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TEST METHOD		PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/01/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis						
Customer Sample ID: LL7ss-001M-S0				Laboratory Sample ID: 231832-9										
Date Sampled.....: 11/08/2004				Date Received.....: 11/10/2004										
Time Sampled.....: 09:50				Time Received.....: 09:45										
Sample Matrix.....: Soil														
Method	% Solids Determination		98.4			0.10	0.10	1	%	134211		11/13/04 1041	daj	
	% Solids, Solid		1.6			0.10	0.10	1	%	134211		11/13/04 1041	daj	
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)		1.9	U		0.55	1.9	1	mg/Kg	135419		11/23/04 1520	kd	
	Nitrate as N (NO3-N), Solid*													

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: NIK Engineers, Inc.

PROJECT: USAGE RVAAP 14 AGGS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-001M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 09:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-9  
 Date Received.....: 11/10/2004  
 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	98.4			0.10	0.10	1	%	134211		11/13/04 1041	daj
	% Moisture, Solid	1.6			0.10	0.10	1	%	134211		11/13/04 1041	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.44	1.4	1	mg/Kg	134864		11/18/04 1406	daj
7841	Thallium (GFAA) Thallium, Solid*	0.24		B	0.19	0.61	1	mg/Kg	134716		11/17/04 1325	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.076			0.0044	0.017	1	mg/Kg	135393		11/23/04 1333	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	7900			2.4	15	1	mg/Kg	135031		11/20/04 2216	lmr
	Barium, Solid*	92			0.16	1.0	1	mg/Kg	135031		11/20/04 2216	lmr
	Arsenic, Solid*	9.6			0.51	1.5	1	mg/Kg	135031		11/20/04 2216	lmr
	Beryllium, Solid*	0.87			0.044	0.40	1	mg/Kg	135031		11/20/04 2216	lmr
	Cadmium, Solid*	0.39			0.080	0.25	1	mg/Kg	135031		11/20/04 2216	lmr
	Calcium, Solid*	53000			3.1	10	1	mg/Kg	135031		11/20/04 2216	lmr
	Chromium, Solid*	17			0.22	1.0	1	mg/Kg	135031		11/20/04 2216	lmr
	Cobalt, Solid*	6.1			0.14	0.50	1	mg/Kg	135031		11/20/04 2216	lmr
	Copper, Solid*	16			0.90	3.0	1	mg/Kg	135031		11/20/04 2216	lmr
	Iron, Solid*	17000			3.0	10	1	mg/Kg	135031		11/20/04 2216	lmr
	Magnesium, Solid*	3000			1.7	10	1	mg/Kg	135031		11/20/04 2216	lmr
	Manganese, Solid*	580			0.13	1.0	1	mg/Kg	135031		11/20/04 2216	lmr
	Nickel, Solid*	18			0.25	1.0	1	mg/Kg	135031		11/20/04 2216	lmr
	Lead, Solid*	39			0.43	1.5	1	mg/Kg	135031		11/20/04 2216	lmr
	Potassium, Solid*	1000			14	50	1	mg/Kg	135031		11/20/04 2216	lmr

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: MKH Engineers, Inc.

PROJECT: USACE RVAAP 1& ADDS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-001M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 09:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-9  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.60	B		0.40	1.5	1	mg/Kg	135031		11/20/04 2216	Lmr
	Silver, Solid*	1.0	U		0.31	1.0	1	mg/Kg	135031		11/20/04 2216	Lmr
	Sodium, Solid*	280	B		87	300	1	mg/Kg	135031		11/20/04 2216	Lmr
	Vanadium, Solid*	12			0.21	1.0	1	mg/Kg	135031		11/20/04 2216	Lmr
	Zinc, Solid*	82			0.40	2.0	1	mg/Kg	135031		11/20/04 2216	Lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-001M-SO Date Sampled.....: 11/08/2004 Time Sampled.....: 09:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-9 Date Received.....: 11/10/2004 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	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 1336	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135895		11/19/04 1336	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135895		11/19/04 1336	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135895		11/19/04 1336	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135895		11/19/04 1336	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135895		11/19/04 1336	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 1336	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135895		11/19/04 1336	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135895		11/19/04 1336	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 1336	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135895		11/19/04 1336	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 1336	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 1336	san
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 1336	san	
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135888		11/19/04 0112	san	

\* In Description = Dry Wgt.



STL CHICAGO

Client Sample ID: IL7ss-001M-SO

Trace Level Organic Compounds

Lot-Sample #...: G4K100349-007    Work Order #...: GNMGL1A    Matrix.....: SOLID  
Date Sampled...: 11/08/04 09:50    Date Received..: 11/10/04  
Prep Date.....: 11/16/04    Analysis Date..: 11/18/04  
Prep Batch #...: 4321529  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND		0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

Client Sample ID: IL7ss-001M-SO

General Chemistry

Lot-Sample #....: G4K100349-007    Work Order #....: GWNGL  
Date Sampled....: 11/08/04 09:50    Date Received..: 11/10/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Nitrocellulose	2.0 J	2.0	mg/kg	MCAMW 353.2	11/11-11/13/04	4316564
			Dilution Factor: 1	Initial Wgt/Vol: 10 g		Final Wgt/Vol...: 40 mL
			MDL.....: 0.57			

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/01/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: L17ss-002M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-7 Date Received.....: 11/10/2004 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	94.7		0.10	0.10	1	%	134211		11/13/04 1036	daj
	% Solids, Solid	5.3		0.10	0.10	1	%	134211		11/13/04 1036	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	2.1	U	0.59	2.1	1	mg/Kg	135419		11/23/04 1519	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-002M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 10:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-7  
 Date Received.....: 11/10/2004  
 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	94.7		0.10	0.10	1	%	134211		11/13/04 1036	daj
	% Moisture, Solid	5.3		0.10	0.10	1	%	134211		11/13/04 1036	daj
7041	Antimony (GFAA) Antimony, Solid*	1.3	U	0.41	1.3	1	mg/Kg	134864		11/18/04 1330	daj
7841	Thallium (GFAA) Thallium, Solid*	0.55	U	0.17	0.55	1	mg/Kg	134716		11/17/04 1300	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.030		0.0045	0.017	1	mg/Kg	135393		11/23/04 1328	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	18000		2.5	16	1	mg/Kg	135031		11/20/04 2203	lmr
	Barium, Solid*	160		0.17	1.0	1	mg/Kg	135031		11/20/04 2203	lmr
	Arsenic, Solid*	9.1		0.53	1.6	1	mg/Kg	135031		11/20/04 2203	lmr
	Beryllium, Solid*	2.8		0.046	0.42	1	mg/Kg	135031		11/20/04 2203	lmr
	Cadmium, Solid*	0.13	B	0.083	0.26	1	mg/Kg	135031		11/20/04 2203	lmr
	Calcium, Solid*	77000		3.2	10	1	mg/Kg	135031		11/20/04 2203	lmr
	Chromium, Solid*	22		0.23	1.0	1	mg/Kg	135031		11/20/04 2203	lmr
	Cobalt, Solid*	4.7		0.15	0.52	1	mg/Kg	135031		11/20/04 2203	lmr
	Copper, Solid*	12		0.94	3.1	1	mg/Kg	135031		11/20/04 2203	lmr
	Iron, Solid*	15000		3.1	10	1	mg/Kg	135031		11/20/04 2203	lmr
	Magnesium, Solid*	9700		1.8	10	1	mg/Kg	135031		11/20/04 2203	lmr
	Manganese, Solid*	1600		0.14	1.0	1	mg/Kg	135031		11/20/04 2203	lmr
	Nickel, Solid*	14		0.26	1.0	1	mg/Kg	135031		11/20/04 2203	lmr
	Lead, Solid*	11		0.45	1.6	1	mg/Kg	135031		11/20/04 2203	lmr
	Potassium, Solid*	1500		14	52	1	mg/Kg	135031		11/20/04 2203	lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: NKN Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-002M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-7 Date Received.....: 11/10/2004 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.4	B		0.42	1.6	1	mg/Kg	135031		11/20/04 2203	Lmr
	Silver, Solid*	1.0	U		0.32	1.0	1	mg/Kg	135031		11/20/04 2203	Lmr
	Sodium, Solid*	670			90	310	1	mg/Kg	135031		11/20/04 2203	Lmr
	Vanadium, Solid*	13			0.22	1.0	1	mg/Kg	135031		11/20/04 2203	Lmr
	Zinc, Solid*	38			0.42	2.1	1	mg/Kg	135031		11/20/04 2203	Lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE: RVAAP 14 AODS			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-002M-S0			Laboratory Sample ID: 231832-7									
Date Sampled.....: 11/08/2004			Date Received.....: 11/10/2004									
Time Sampled.....: 10:30			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	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 1231	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135895		11/19/04 1231	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135895		11/19/04 1231	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135895		11/19/04 1231	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135895		11/19/04 1231	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135895		11/19/04 1231	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 1231	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135895		11/19/04 1231	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135895		11/19/04 1231	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 1231	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135895		11/19/04 1231	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 1231	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 1231	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 1231	san

\* In Description = Dry Wgt.

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Job Number: 231832	LABORATORY TEST RESULTS	Date:12/01/2004
CUSTOMER: MKM Engineers, Inc.	PROJECT: USACE RYAAP 34 ACES	ATTN: Eric Ellis
Customer Sample ID: LL7ss-003M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 11:00 Sample Matrix.....: Soil	Laboratory Sample ID: 231832-21 Date Received.....: 11/10/2004 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	91.0		0.10	0.10	1	%	134211		11/13/04 1106	daj
	% Solids, Solid	9.0		0.10	0.10	1	%	134211		11/13/04 1106	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	3.2		0.60	2.1	1	mg/Kg	135419		11/23/04 1526	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231832								Date: 11/29/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 A055				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-003M-SO Date Sampled.....: 11/08/2004 Time Sampled.....: 11:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231832-21 Date Received.....: 11/10/2004 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	91.0			0.10	0.10	1	%	134211		11/13/04 1106	daj
	% Moisture, Solid	9.0			0.10	0.10	1	%	134211		11/13/04 1106	daj
7041	Antimony (GFAA) Antimony, Solid*	0.58		B	0.47	1.5	1	mg/Kg	134864		11/18/04 1708	daj
7841	Thallium (GFAA) Thallium, Solid*	0.64		U	0.20	0.64	1	mg/Kg	134716		11/17/04 1911	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.034			0.0047	0.018	1	mg/Kg	135393		11/23/04 1411	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9300			2.6	16	1	mg/Kg	135031		11/20/04 2354	lmr
	Barium, Solid*	55			0.17	1.1	1	mg/Kg	135031		11/20/04 2354	lmr
	Arsenic, Solid*	15			0.55	1.6	1	mg/Kg	135031		11/20/04 2354	lmr
	Beryllium, Solid*	0.69			0.047	0.43	1	mg/Kg	135031		11/20/04 2354	lmr
	Cadmium, Solid*	0.27		U	0.086	0.27	1	mg/Kg	135031		11/20/04 2354	lmr
	Calcium, Solid*	3100			3.3	11	1	mg/Kg	135031		11/20/04 2354	lmr
	Chromium, Solid*	19			0.24	1.1	1	mg/Kg	135031		11/20/04 2354	lmr
	Cobalt, Solid*	8.8			0.15	0.54	1	mg/Kg	135031		11/20/04 2354	lmr
	Copper, Solid*	16			0.97	3.2	1	mg/Kg	135031		11/20/04 2354	lmr
	Iron, Solid*	22000			3.2	11	1	mg/Kg	135031		11/20/04 2354	lmr
	Magnesium, Solid*	2500			1.8	11	1	mg/Kg	135031		11/20/04 2354	lmr
	Manganese, Solid*	530			0.14	1.1	1	mg/Kg	135031		11/20/04 2354	lmr
	Nickel, Solid*	20			0.27	1.1	1	mg/Kg	135031		11/20/04 2354	lmr
	Lead, Solid*	16			0.46	1.6	1	mg/Kg	135031		11/20/04 2354	lmr
	Potassium, Solid*	890			15	54	1	mg/Kg	135031		11/20/04 2354	lmr

\* In Description = Dry Wgt.



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Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-003M-SO			Laboratory Sample ID: 231832-21									
Date Sampled.....: 11/08/2004			Date Received.....: 11/10/2004									
Time Sampled.....: 11:00			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
	Selenium, Solid*	0.64	B		0.43	1.6	1	mg/Kg	135031		11/20/04 2354	Emr
	Silver, Solid*	1.1	U		0.33	1.1	1	mg/Kg	135031		11/20/04 2354	Emr
	Sodium, Solid*	230	B		93	320	1	mg/Kg	135031		11/20/04 2354	Emr
	Vanadium, Solid*	17			0.23	1.1	1	mg/Kg	135031		11/20/04 2354	Emr
	Zinc, Solid*	53			0.43	2.1	1	mg/Kg	135031		11/20/04 2354	Emr

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832 Date: 12/02/2004

CUSTOMER: PKM Engineers, Inc. ATTN: Eric Eltis

PROJECT: USACE RVAAP 14 AQCS

Customer Sample ID: LL7ss-003M-S0 Laboratory Sample ID: 231832-21  
 Date Sampled.....: 11/08/2004 Date Received.....: 11/10/2004  
 Time Sampled.....: 11:00 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	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 2038	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135895		11/19/04 2038	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135895		11/19/04 2038	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135895		11/19/04 2038	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135895		11/19/04 2038	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135895		11/19/04 2038	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 2038	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135895		11/19/04 2038	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135895		11/19/04 2038	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 2038	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135895		11/19/04 2038	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 2038	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 2038	san
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 2038	san	
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135888		11/19/04 0520	san	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7ss-003M-SO

Trace Level Organic Compounds

Lot-Sample #...: G4K100349-014    Work Order #...: GWNHG1AA    Matrix.....: SOLID  
Date Sampled...: 11/08/04 11:00    Date Received...: 11/10/04  
Prep Date.....: 11/16/04    Analysis Date...: 11/18/04  
Prep Batch #...: 4321529  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPDLC per

STL CHICAGO

Client Sample ID: LL7SS-003M-SO

General Chemistry

Lot-Sample #...: G4K100349-014    Work Order #...: GWNHG  
Date Sampled...: 11/08/04 11:00    Date Received...: 11/10/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Nitrocellulose	1.7 B,J	2.0	mg/kg	MCAW 353.2	11/11-11/13/04	4316564
			Dilution Factor: 1	Initial Wgt/Vol: 10 g		Final Wgt/Vol...: 40 mL
			MDL.....: 0.57			

**NOTE(S) :**

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: 1L7ss-003M-DUP Date Sampled.....: 11/08/2004 Time Sampled.....: 11:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-20 Date Received.....: 11/10/2004 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	90.8			0.10	0.10	1	%	134211		11/13/04 1104	daj
	% Moisture, Solid	9.2			0.10	0.10	1	%	134211		11/13/04 1104	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)											
	Nitrate as N (NO3-N), Solid*	2.9			0.62	2.2	1	mg/Kg	135419		11/23/04 1524	kd

\* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: HQM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-003M-DUP			Laboratory Sample ID: 231832-20									
Date Sampled.....: 11/08/2004			Date Received.....: 11/10/2004									
Time Sampled.....: 11:00			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
Method	% Solids Determination											
	% Solids, Solid	90.8			0.10	0.10	1	%	134211		11/13/04 1104	daj
	% Moisture, Solid	9.2			0.10	0.10	1	%	134211		11/13/04 1104	daj
7041	Antimony (GFAA)											
	Antimony, Solid*	0.57		B	0.47	1.5	1	mg/Kg	134864		11/18/04 1656	daj
7841	Thallium (GFAA)											
	Thallium, Solid*	0.64		U	0.20	0.64	1	mg/Kg	134716		11/17/04 1859	daj
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.035			0.0047	0.018	1	mg/Kg	135393		11/23/04 1408	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9500			2.6	16	1	mg/Kg	135031		11/20/04 2348	Lmr
	Barium, Solid*	57			0.17	1.1	1	mg/Kg	135031		11/20/04 2348	Lmr
	Arsenic, Solid*	13			0.55	1.6	1	mg/Kg	135031		11/20/04 2348	Lmr
	Beryllium, Solid*	0.69			0.048	0.43	1	mg/Kg	135031		11/20/04 2348	Lmr
	Cadmium, Solid*	0.27		U	0.087	0.27	1	mg/Kg	135031		11/20/04 2348	Lmr
	Calcium, Solid*	3300			3.4	11	1	mg/Kg	135031		11/20/04 2348	Lmr
	Chromium, Solid*	22			0.24	1.1	1	mg/Kg	135031		11/20/04 2348	Lmr
	Cobalt, Solid*	8.7			0.15	0.54	1	mg/Kg	135031		11/20/04 2348	Lmr
	Copper, Solid*	16			0.97	3.2	1	mg/Kg	135031		11/20/04 2348	Lmr
	Iron, Solid*	21000			3.2	11	1	mg/Kg	135031		11/20/04 2348	Lmr
	Magnesium, Solid*	2500			1.8	11	1	mg/Kg	135031		11/20/04 2348	Lmr
	Manganese, Solid*	530			0.14	1.1	1	mg/Kg	135031		11/20/04 2348	Lmr
	Nickel, Solid*	19			0.27	1.1	1	mg/Kg	135031		11/20/04 2348	Lmr
	Lead, Solid*	16			0.47	1.6	1	mg/Kg	135031		11/20/04 2348	Lmr
	Potassium, Solid*	930			15	54	1	mg/Kg	135031		11/20/04 2348	Lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-003M-DUP Date Sampled.....: 11/08/2004 Time Sampled.....: 11:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-20 Date Received.....: 11/10/2004 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	0.20		U	0.056	0.20	1.00000	mg/Kg	135895		11/19/04 2006	san
	RDX, Solid	0.20		U	0.063	0.20	1.00000	mg/Kg	135895		11/19/04 2006	san
	1,3,5-Trinitrobenzene, Solid	0.10		U	0.033	0.10	1.00000	mg/Kg	135895		11/19/04 2006	san
	1,3-Dinitrobenzene, Solid	0.10		U	0.023	0.10	1.00000	mg/Kg	135895		11/19/04 2006	san
	Nitrobenzene, Solid	0.10		U	0.021	0.10	1.00000	mg/Kg	135895		11/19/04 2006	san
	2,4,6-TNT, Solid	0.10		U	0.024	0.10	1.00000	mg/Kg	135895		11/19/04 2006	san
	Tetryl, Solid	0.40		U	0.12	0.40	1.00000	mg/Kg	135895		11/19/04 2006	san
	2,4-Dinitrotoluene, Solid	0.10		U	0.026	0.10	1.00000	mg/Kg	135895		11/19/04 2006	san
	2,6-Dinitrotoluene, Solid	0.20		U	0.049	0.20	1.00000	mg/Kg	135895		11/19/04 2006	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20		U	0.045	0.20	1.00000	mg/Kg	135895		11/19/04 2006	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30		U	0.094	0.30	1.00000	mg/Kg	135895		11/19/04 2006	san
	2-Nitrotoluene, Solid	0.20		U	0.048	0.20	1.00000	mg/Kg	135895		11/19/04 2006	san
	4-Nitrotoluene, Solid	0.20		U	0.050	0.20	1.00000	mg/Kg	135895		11/19/04 2006	san
	3-Nitrotoluene, Solid	0.20		U	0.053	0.20	1.00000	mg/Kg	135895		11/19/04 2006	san
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50		U	0.12	0.50	1.00000	mg/Kg	135888		11/19/04 0409	san	

\* In Description = Dry Wgt.



STL CHICAGO

Client Sample ID: IL7ss-003M-DUP

Trace Level Organic Compounds

Lot-Sample #...: G4K100349-013    Work Order #...: GWNHE1AA    Matrix.....: SOLID  
Date Sampled...: 11/08/04 11:00    Date Received..: 11/10/04  
Prep Date.....: 11/16/04    Analysis Date..: 11/18/04  
Prep Batch #...: 4321529  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: IL7SS-003M-DUP

General Chemistry

Lot-Sample #....: G4K100349-013    Work Order #....: GWNHE  
Date Sampled....: 11/08/04 11:00    Date Received..: 11/10/04

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Nitrocellulose	1.7 B,J	2.0	mg/kg	MCAWV 353.2	11/11-11/13/04	4316564
				Dilution Factor: 1	Initial Wgt/Vol: 10 g	Final Wgt/Vol...: 40 mL
				MDL.....: 0.57		

**NOTE(S) :**

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS												
Job Number: 231832								Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 ACES				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-004M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 11:35 Sample Matrix.....: Soil						Laboratory Sample ID: 231832-16 Date Received.....: 11/10/2004 Time Received.....: 09:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDE	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	90.8			0.10	0.10	1	%	134211		11/13/04 1056	daj
	% Moisture, Solid	9.2			0.10	0.10	1	%	134211		11/13/04 1056	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	6.5			0.60	2.1	1	mg/Kg	135419		11/23/04 1521	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Elize

Customer Sample ID: LL7ss-D04M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 11:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-16  
 Date Received.....: 11/10/2004  
 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	90.8			0.10	0.10	1	%	134211		11/13/04 1056	daj
	% Moisture, Solid	9.2			0.10	0.10	1	%	134211		11/13/04 1056	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.44	1.4	1	mg/Kg	134864		11/18/04 1555	daj
7841	Thallium (GFAA) Thallium, Solid*	0.60		U	0.19	0.60	1	mg/Kg	134716		11/17/04 1530	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.40			0.0047	0.018	1	mg/Kg	135393		11/23/04 1354	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9500			2.6	16	1	mg/Kg	135031		11/20/04 2323	lmr
	Barium, Solid*	100			0.17	1.1	1	mg/Kg	135031		11/20/04 2323	lmr
	Arsenic, Solid*	8.2			0.55	1.6	1	mg/Kg	135031		11/20/04 2323	lmr
	Beryllium, Solid*	1.2			0.047	0.43	1	mg/Kg	135031		11/20/04 2323	lmr
	Cadmium, Solid*	1.4			0.086	0.27	1	mg/Kg	135031		11/20/04 2323	lmr
	Calcium, Solid*	59000			3.3	11	1	mg/Kg	135031		11/20/04 2323	lmr
	Chromium, Solid*	33			0.24	1.1	1	mg/Kg	135031		11/20/04 2323	lmr
	Cobalt, Solid*	5.5			0.15	0.54	1	mg/Kg	135031		11/20/04 2323	lmr
	Copper, Solid*	37			0.97	3.2	1	mg/Kg	135031		11/20/04 2323	lmr
	Iron, Solid*	14000			3.2	11	1	mg/Kg	135031		11/20/04 2323	lmr
	Magnesium, Solid*	4300			1.8	11	1	mg/Kg	135031		11/20/04 2323	lmr
	Manganese, Solid*	850			0.14	1.1	1	mg/Kg	135031		11/20/04 2323	lmr
	Nickel, Solid*	19			0.27	1.1	1	mg/Kg	135031		11/20/04 2323	lmr
	Lead, Solid*	160			0.46	1.6	1	mg/Kg	135031		11/20/04 2323	lmr
	Potassium, Solid*	770			15	54	1	mg/Kg	135031		11/20/04 2323	lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-004M-SO Date Sampled.....: 11/08/2004 Time Sampled.....: 11:35 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-16 Date Received.....: 11/10/2004 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.2	B		0.43	1.6	1	mg/Kg	135031		11/20/04 2323	Lmr
	Silver, Solid*	1.1	U		0.33	1.1	1	mg/Kg	135031		11/20/04 2323	Lmr
	Sodium, Solid*	330			93	320	1	mg/Kg	135031		11/20/04 2323	Lmr
	Vanadium, Solid*	12			0.23	1.1	1	mg/Kg	135031		11/20/04 2323	Lmr
	Zinc, Solid*	120			0.43	2.2	1	mg/Kg	135031		11/20/04 2323	Lmr

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: Z31832

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-004M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 11:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: Z31832-16  
 Date Received.....: 11/10/2004  
 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)											
	RDX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 1756	san
	1,3,5-Trinitrobenzene, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135895		11/19/04 1756	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135895		11/19/04 1756	san
	Nitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135895		11/19/04 1756	san
	2,4,6-TNT, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135895		11/19/04 1756	san
	Tetryl, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135895		11/19/04 1756	san
	2,4-Dinitrotoluene, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 1756	san
	2,6-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135895		11/19/04 1756	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 1756	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 1756	san
	2-Nitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135895		11/19/04 1756	san
	4-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135895		11/19/04 1756	san
	3-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 1756	san
		0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 1756	san

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-005M-SD Date Sampled.....: 11/08/2004 Time Sampled.....: 14:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-18 Date Received.....: 11/10/2004 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	R	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	96.9			0.10	0.10	1	%	134211		11/13/04 1100	daj
	% Moisture, Solid	3.1			0.10	0.10	1	%	134211		11/13/04 1100	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	3.1			0.58	2.0	f	mg/Kg	135419		11/23/04 1523	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: NCM Engineers, Inc.

PROJECT: USACE RYKAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-005M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-18  
 Date Received.....: 11/10/2004  
 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	96.9			0.10	0.10	1	%	134211		11/13/04 1100	daj
	% Moisture, Solid	3.1			0.10	0.10	1	%	134211		11/13/04 1100	daj
7041	Antimony (GFAA) Antimony, Solid*	1.3		U	0.40	1.3	1	mg/Kg	134864		11/18/04 1620	daj
7841	Thallium (GFAA) Thallium, Solid*	0.55		U	0.17	0.55	1	mg/Kg	134716		11/17/04 1555	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.034			0.0044	0.017	1	mg/Kg	135393		11/23/04 1359	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	6900			2.4	15	1	mg/Kg	135031		11/20/04 2335	Lmr
	Barium, Solid*	86			0.16	1.0	1	mg/Kg	135031		11/20/04 2335	Lmr
	Arsenic, Solid*	9.2			0.51	1.5	1	mg/Kg	135031		11/20/04 2335	Lmr
	Beryllium, Solid*	0.63			0.044	0.40	1	mg/Kg	135031		11/20/04 2335	Lmr
	Cadmium, Solid*	0.49			0.080	0.25	1	mg/Kg	135031		11/20/04 2335	Lmr
	Calcium, Solid*	46000			3.1	10	1	mg/Kg	135031		11/20/04 2335	Lmr
	Chromium, Solid*	18			0.22	1.0	1	mg/Kg	135031		11/20/04 2335	Lmr
	Cobalt, Solid*	6.0			0.14	0.50	1	mg/Kg	135031		11/20/04 2335	Lmr
	Copper, Solid*	18			0.90	3.0	1	mg/Kg	135031		11/20/04 2335	Lmr
	Iron, Solid*	15000			3.0	10	1	mg/Kg	135031		11/20/04 2335	Lmr
	Magnesium, Solid*	2000			1.7	10	1	mg/Kg	135031		11/20/04 2335	Lmr
	Manganese, Solid*	560			0.13	1.0	1	mg/Kg	135031		11/20/04 2335	Lmr
	Nickel, Solid*	17			0.25	1.0	1	mg/Kg	135031		11/20/04 2335	Lmr
	Lead, Solid*	42			0.43	1.5	1	mg/Kg	135031		11/20/04 2335	Lmr
	Potassium, Solid*	990			14	50	1	mg/Kg	135031		11/20/04 2335	Lmr

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-005M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-18  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.66	B		0.40	1.5	1	mg/Kg	135031		11/20/04 2335	Lmr
	Silver, Solid*	1.0	U		0.31	1.0	1	mg/Kg	135031		11/20/04 2335	Lmr
	Sodium, Solid*	190	B		86	300	1	mg/Kg	135031		11/20/04 2335	Lmr
	Vanadium, Solid*	12			0.21	1.0	1	mg/Kg	135031		11/20/04 2335	Lmr
	Zinc, Solid*	83			0.40	2.0	1	mg/Kg	135031		11/20/04 2335	Lmr

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/03/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-005M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-18  
 Date Received.....: 11/10/2004  
 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, 3541 Solid*	17	U		1.6	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	beta-BHC, 3541 Solid*	17	U		1.5	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	delta-BHC, 3541 Solid*	17	U		1.1	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	gamma-BHC (Lindane), 3541 Solid*	17	U		2.3	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Heptachlor, 3541 Solid*	17	U		1.8	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Aldrin, 3541 Solid*	17	U		1.3	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Heptachlor epoxide, 3541 Solid*	17	U		1.4	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Endosulfan I, 3541 Solid*	17	U		2.7	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Dieldrin, 3541 Solid*	17	U		3.4	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	4,4'-DDE, 3541 Solid*	20	U		6.4	20	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Endrin, 3541 Solid*	17	U		4.3	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Endosulfan II, 3541 Solid*	17	U		2.8	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	4,4'-DDD, 3541 Solid*	17	U		3.6	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Endosulfan sulfate, 3541 Solid*	17	U		2.9	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	4,4'-DDT, 3541 Solid*	17	U		3.7	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Methoxychlor, 3541 Solid*	82	U		23	82	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	alpha-Chlordane, 3541 Solid*	17	U		1.2	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	gamma-Chlordane, 3541 Solid*	17	U		1.5	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Endrin aldehyde, 3541 Solid*	17	U		3.3	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Endrin ketone, 3541 Solid*	17	U		2.9	17	10.0000	ug/Kg	136076		11/24/04 2224	kdl
	Toxaphene, 3541 Solid*	170	U		45	170	10.0000	ug/Kg	136076		11/24/04 2224	kdl
Method	% Solids Determination											
	% Solids, Solid	96.9			0.10	0.10	1	%	134211		11/13/04 1100	daj
	% Moisture, Solid	3.1			0.10	0.10	1	%	134211		11/13/04 1100	daj

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: KIM Engineers, Inc.			PROJECT: USACE RVAAP 14 ACOS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-005M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 14:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-18 Date Received.....: 11/10/2004 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, 3541 Solid*	33		U	8.8	33	1.00000	ug/Kg	135781		11/23/04 1935	bjt
	Aroclor 1221, 3541 Solid*	33		U	4.5	33	1.00000	ug/Kg	135781		11/23/04 1935	bjt
	Aroclor 1232, 3541 Solid*	17		U	4.4	17	1.00000	ug/Kg	135781		11/23/04 1935	bjt
	Aroclor 1242, 3541 Solid*	33		U	4.8	33	1.00000	ug/Kg	135781		11/23/04 1935	bjt
	Aroclor 1248, 3541 Solid*	17		U	3.7	17	1.00000	ug/Kg	135781		11/23/04 1935	bjt
	Aroclor 1254, 3541 Solid*	70		U	4.4	33	1.00000	ug/Kg	135781		11/23/04 1935	bjt
	Aroclor 1260, 3541 Solid*	33		U	13	33	1.00000	ug/Kg	135781		11/23/04 1935	bjt
Method	% Solids Determination											
	% Solids, Solid	96.9			0.10	0.10	1	%	134211		11/13/04 1100	daj
	% Moisture, Solid	3.1			0.10	0.10	1	%	134211		11/13/04 1100	daj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231833

Date: 11/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGGS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-005D-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231833-3  
 Date Received.....: 11/10/2004  
 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	78.1			0.10	0.10	1	%	134159		11/12/04 1610	gok
	% Moisture, Solid	21.9			0.10	0.10	1	%	134159		11/12/04 1610	gok
8260B	Volatile Organics											
	Chloromethane, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Vinyl chloride, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Bromomethane, Solid*	6.4		U	1.7	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Chloroethane, Solid*	6.4		U	1.3	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,1-Dichloroethene, Solid*	6.4		U	1.7	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Carbon disulfide, Solid*	6.4		U	1.5	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Acetone, Solid*	19		U	5.9	19	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Methylene chloride, Solid*	13		U	3.7	13	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	trans-1,2-Dichloroethene, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,1-Dichloroethane, Solid*	6.4		U	1.3	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	cis-1,2-Dichloroethene, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	2-Butanone (MEK), Solid*	19		U	5.0	19	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Bromochloromethane, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Chloroform, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,1,1-Trichloroethane, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Carbon tetrachloride, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Benzene, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,2-Dichloroethane, Solid*	6.4		U	1.2	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Trichloroethene, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,2-Dichloropropane, Solid*	6.4		U	1.3	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Bromodichloromethane, Solid*	6.4		U	1.2	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	cis-1,3-Dichloropropene, Solid*	6.4		U	1.2	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	4-Methyl-2-pentanone (MIBK), Solid*	13		U	1.3	13	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Toluene, Solid*	6.4		U	1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231833

Date: 11/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-005D-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231833-3  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	trans-1,3-Dichloropropene, Solid*	6.4	U		1.0	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,1,2-Trichloroethane, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Tetrachloroethene, Solid*	6.4	U		1.5	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	2-Hexanone, Solid*	13	U		1.4	13	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Dibromochloromethane, Solid*	6.4	U		1.0	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,2-Dibromoethane (EDB), Solid*	6.4	U		1.0	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Chlorobenzene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Ethylbenzene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	m&p-Xylenes, Solid*	13	U		2.9	13	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	o-Xylene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Styrene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Bromoform, Solid*	6.4	U		0.96	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,1,2,2-Tetrachloroethane, Solid*	6.4	U		1.2	6.4	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	1,2-Dichloroethene (total), Solid*	13	U		2.7	13	1.00000	ug/Kg	133968		11/10/04 2043	jdj
	Xylenes (total), Solid*	13	U		4.4	13	1.00000	ug/Kg	133968		11/10/04 2043	jdj

\* In Description = Dry Wgt.

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Job Number: 231832 LABORATORY TEST RESULTS Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RMAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-005H-S0 Laboratory Sample ID: 231832-18  
 Date Sampled.....: 11/08/2004 Date Received.....: 11/10/2004  
 Time Sampled.....: 14:15 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
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	170	U		7.1	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Bis(2-chloroethyl)ether, 3541 Low Solid*	67	U		8.9	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	1,3-Dichlorobenzene, 3541 Low Solid*	170	U		13	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	1,4-Dichlorobenzene, 3541 Low Solid*	170	U		15	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	1,2-Dichlorobenzene, 3541 Low Solid*	170	U		14	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Benzyl alcohol, 3541 Low Solid*	670	U		73	670	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2-Methylphenol (o-cresol), 3541 Low Solid*	67	U		10	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	170	U		16	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	67	U		13	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Hexachloroethane, 3541 Low Solid*	170	U		8.6	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	67	U		12	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2-Chlorophenol, 3541 Low Solid*	170	U		13	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Nitrobenzene, 3541 Low Solid*	33	U		8.6	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	67	U		8.8	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	1,2,4-Trichlorobenzene, 3541 Low Solid*	170	U		14	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Benzoic acid, 3541 Low Solid*	670	U	*	200	670	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Isophorone, 3541 Low Solid*	170	U		20	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2,4-Dimethylphenol, 3541 Low Solid*	330	U		16	330	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Hexachlorobutadiene, 3541 Low Solid*	170	U		9.0	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Naphthalene, 3541 Low Solid*	24	J		8.4	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2,4-Dichlorophenol, 3541 Low Solid*	330	U		15	330	1.00000	ug/Kg	135735		11/29/04 1040	glr
	4-Chloroaniline, 3541 Low Solid*	670	U		54	670	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2,4,6-Trichlorophenol, 3541 Low Solid*	170	U		37	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2,4,5-Trichlorophenol, 3541 Low Solid*	330	U		45	330	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Hexachlorocyclopentadiene, 3541 Low Solid*	1000	U		300	1000	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2-Methylnaphthalene, 3541 Low Solid*	28	J		10	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2-Nitroaniline, 3541 Low Solid*	170	U		11	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2-Chloronaphthalene, 3541 Low Solid*	170	U		16	170	1.00000	ug/Kg	135735		11/29/04 1040	glr

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-005M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-18  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	330	U		34	330	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2,6-Dinitrotoluene, 3541 Low Solid*	33	U		9.2	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2-Nitrophenol, 3541 Low Solid*	330	U		15	330	1.00000	ug/Kg	135735		11/29/04 1040	glr
	3-Nitroaniline, 3541 Low Solid*	670	U		140	670	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Dimethyl phthalate, 3541 Low Solid*	67	U		8.9	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2,4-Dinitrophenol, 3541 Low Solid*	670	U	*	100	670	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Acenaphthylene, 3541 Low Solid*	33	U		8.3	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	2,4-Dinitrotoluene, 3541 Low Solid*	33	U		10	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Acenaphthene, 3541 Low Solid*	110	U		8.3	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Dibenzofuran, 3541 Low Solid*	60	J		8.8	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	4-Nitrophenol, 3541 Low Solid*	670	U		210	670	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Fluorene, 3541 Low Solid*	120	U		9.0	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	4-Nitroaniline, 3541 Low Solid*	670	U		45	670	1.00000	ug/Kg	135735		11/29/04 1040	glr
	4-Bromophenyl phenyl ether, 3541 Low Soli*	170	U		10	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Hexachlorobenzene, 3541 Low Solid*	33	U		9.5	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Diethyl phthalate, 3541 Low Solid*	67	U		9.5	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	170	U		9.9	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Pentachlorophenol, 3541 Low Solid*	330	U		110	330	1.00000	ug/Kg	135735		11/29/04 1040	glr
	n-Nitrosodiphenylamine, 3541 Low Solid*	33	U		10	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	670	U		170	670	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Phenanthrene, 3541 Low Solid*	1200	U		15	50	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Anthracene, 3541 Low Solid*	310	U		11	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Carbazole, 3541 Low Solid*	170	U		12	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Di-n-butyl phthalate, 3541 Low Solid*	170	U		11	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Fluoranthene, 3541 Low Solid*	1200	U		11	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Pyrene, 3541 Low Solid*	1000	U		12	50	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Butyl benzyl phthalate, 3541 Low Solid*	67	U		10	67	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Benzo(a)anthracene, 3541 Low Solid*	550	U		9.9	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Chrysene, 3541 Low Solid*	490	U		10	33	1.00000	ug/Kg	135735		11/29/04 1040	glr

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE: RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-005M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-18  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	170		U	15	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	170		U	32	170	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Di-n-octyl phthalate, 3541 Low Solid*	330		U	10	330	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Benzo(b)fluoranthene, 3541 Low Solid*	610		H	8.9	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Benzo(k)fluoranthene, 3541 Low Solid*	280		M	9.4	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Benzo(a)pyrene, 3541 Low Solid*	480			9.5	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	200			10	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	0-benzo(a,h)anthracene, 3541 Low Solid*	61			9.5	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
	Benzo(ghi)perylene, 3541 Low Solid*	250			11	33	1.00000	ug/Kg	135735		11/29/04 1040	glr
Method	% Solids Determination											
	% Solids, Solid	96.9			0.10	0.10	1	%	134211		11/13/04 1100	daj
	% Moisture, Solid	3.1			0.10	0.10	1	%	134211		11/13/04 1100	daj

\* In Description = Dry Wgt.



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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MCM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-005M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 14:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-18 Date Received.....: 11/10/2004 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	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 1901	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135895		11/19/04 1901	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135895		11/19/04 1901	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135895		11/19/04 1901	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135895		11/19/04 1901	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135895		11/19/04 1901	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 1901	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135895		11/19/04 1901	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 1901	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 1901	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135895		11/19/04 1901	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135895		11/19/04 1901	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 1901	san
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 1901	san	
8332M	NG/PEIN by 8332M (HPLC)											
Nitroglycerine, Solid	0.49	U		0.12	0.49	1.00000	mg/Kg	135888		11/19/04 0334	san	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7ss-005M-SO

Trace Level Organic Compounds

Lot-Sample #...: G4K100349-005    Work Order #...: GWNNG1AA    Matrix.....: SOLID  
Date Sampled...: 11/08/04 14:15    Date Received...: 11/10/04  
Prep Date.....: 11/16/04    Analysis Date...: 11/18/04  
Prep Batch #...: 4321529  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: IL7ss-005M-SO

General Chemistry

Lot-Sample #....: G4K100349-005    Work Order #....: GWNNGG  
Date Sampled....: 11/08/04 14:15    Date Received...: 11/10/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	9.4 J	2.0	mg/kg	MCAMW 353.2	11/11-11/14/04	4316564
			Dilution Factor: 1	Initial Wgt/Vol: 10 g		Final Wgt/Vol...: 40 mL
			MDL.....: 0.57			

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-006M-S0 Laboratory Sample ID: 231877-10  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 13:10 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	92.5		0.10	0.10	1	%	134212		11/13/04 1136	daj
	% Solids, Solid			0.10	0.10	1	%	134212		11/13/04 1136	daj
	% Moisture, Solid	7.5									
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	9.1		0.60	2.1	1	mg/Kg	135424		11/23/04 1627	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RYAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-006H-50  
 Date Sampled: 11/09/2004  
 Time Sampled: 13:10  
 Sample Matrix: Soil

Laboratory Sample ID: 231877-10  
 Date Received: 11/11/2004  
 Time Received: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	92.5			0.10	0.10	1	%	134212		11/13/04 1136	daj
	% Solids, Solid	7.5			0.10	0.10	1	%	134212		11/13/04 1136	daj
	% Moisture, Solid											
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.47	1.5	1	mg/Kg	134864		11/19/04 0259	daj
7841	Thallium (GFAA) Thallium, Solid*	0.64		U	0.20	0.64	1	mg/Kg	134716		11/18/04 0243	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.027			0.0046	0.018	1	mg/Kg	135018		11/18/04 1551	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	5100			2.6	16	1	mg/Kg	135060		11/21/04 2302	tds
	Barium, Solid*	51			0.17	1.1	1	mg/Kg	135030		11/20/04 1406	lmr
	Arsenic, Solid*	7.9			0.55	1.6	1	mg/Kg	135030		11/20/04 1406	lmr
	Beryllium, Solid*	0.63			0.047	0.43	1	mg/Kg	135030		11/20/04 1406	lmr
	Cadmium, Solid*	0.71			0.086	0.27	1	mg/Kg	135030		11/20/04 1406	lmr
	Calcium, Solid*	14000			3.3	11	1	mg/Kg	135030		11/20/04 1406	lmr
	Chromium, Solid*	14			0.24	1.1	1	mg/Kg	135030		11/20/04 1406	lmr
	Cobalt, Solid*	3.8			0.15	0.54	1	mg/Kg	135030		11/20/04 1406	lmr
	Copper, Solid*	71			0.97	3.2	1	mg/Kg	135060		11/21/04 2302	tds
	Iron, Solid*	12000			3.2	11	1	mg/Kg	135030		11/20/04 1406	lmr
	Magnesium, Solid*	1800			1.8	11	1	mg/Kg	135030		11/20/04 1406	lmr
	Manganese, Solid*	360			0.14	1.1	1	mg/Kg	135030		11/20/04 1406	lmr
	Nickel, Solid*	13			0.27	1.1	1	mg/Kg	135030		11/20/04 1406	lmr
	Lead, Solid*	78			0.46	1.6	1	mg/Kg	135030		11/20/04 1406	lmr
	Potassium, Solid*	520			15	54	1	mg/Kg	135060		11/21/04 2302	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS											
Job Number: 231877				Date: 11/29/2004							
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RWAP 14 AOCs				ATTN: Eric Elts			
Customer Sample ID: LL7ss-006M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 13:10 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-10 Date Received.....: 11/11/2004 Time Received.....: 10:00					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.61	B	0.43	1.6	1	mg/Kg	135030		11/20/04 1406	lmr
	Silver, Solid*	1.1	U	0.33	1.1	1	mg/Kg	135030		11/20/04 1406	lmr
	Sodium, Solid*	320	U	94	320	1	mg/Kg	135060		11/21/04 2302	tds
	Vanadium, Solid*	8.2		0.23	1.1	1	mg/Kg	135030		11/20/04 1406	lmr
	Zinc, Solid*	180		0.43	2.2	1	mg/Kg	135030		11/20/04 1406	lmr

\* In Description = Dry Wgt.

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Job Number: 231877

LABORATORY TEST RESULTS

Date: 11/24/2004

CUSTOMER: NCM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: ERIC ELLIS

Customer Sample ID: LL7ss-006N-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 13:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-10  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

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	0.20	U	0.056	0.20	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	RDX, Solid	0.20	U	0.063	0.20	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U	0.033	0.10	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	1,3-Dinitrobenzene, Solid	0.10	U	0.024	0.10	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	Nitrobenzene, Solid	0.10	U	0.021	0.10	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	2,4,6-TNT, Solid	0.10	U	0.024	0.10	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	Tetryl, Solid	0.40	U	0.12	0.40	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	2,4-Dinitrotoluene, Solid	0.10	U	0.026	0.10	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	2,6-Dinitrotoluene, Solid	0.20	U	0.049	0.20	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U	0.046	0.20	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U	0.094	0.30	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	2-Nitrotoluene, Solid	0.20	U	0.048	0.20	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	4-Nitrotoluene, Solid	0.20	U	0.050	0.20	1.00000	mg/Kg	135429		11/17/04 1131	bdw
	3-Nitrotoluene, Solid	0.20	U	0.053	0.20	1.00000	mg/Kg	135429		11/17/04 1131	bdw

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-007M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-17  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FEAS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	96.6			0.10	0.10	1	%	134211		11/13/04 1058	daj
	% Solids, Solid	3.4			0.10	0.10	1	%	134211		11/13/04 1058	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.9	U		0.54	1.9	f	mg/Kg	135419		11/23/04 1522	kd

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-007M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-17  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	96.6			0.10	0.10	1	%	134211		11/13/04 1058	daj
	% Moisture, Solid	3.4			0.10	0.10	1	%	134211		11/13/04 1058	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.43	1.4	1	mg/Kg	134864		11/18/04 1608	daj
7841	Thallium (GFAA) Thallium, Solid*	0.31		B	0.19	0.58	1	mg/Kg	134716		11/17/04 1542	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.037			0.0045	0.017	1	mg/Kg	135393		11/23/04 1356	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8300			2.4	15	1	mg/Kg	135031		11/20/04 2329	lmr
	Barium, Solid*	71			0.16	1.0	1	mg/Kg	135031		11/20/04 2329	lmr
	Arsenic, Solid*	13			0.51	1.5	1	mg/Kg	135031		11/20/04 2329	lmr
	Beryllium, Solid*	0.62			0.044	0.40	1	mg/Kg	135031		11/20/04 2329	lmr
	Cadmium, Solid*	0.25		U	0.081	0.25	1	mg/Kg	135031		11/20/04 2329	lmr
	Calcium, Solid*	2600			3.1	10	1	mg/Kg	135031		11/20/04 2329	lmr
	Chromium, Solid*	24			0.22	1.0	1	mg/Kg	135031		11/20/04 2329	lmr
	Cobalt, Solid*	7.9			0.14	0.50	1	mg/Kg	135031		11/20/04 2329	lmr
	Copper, Solid*	22			0.91	3.0	1	mg/Kg	135031		11/20/04 2329	lmr
	Iron, Solid*	20000			3.0	10	1	mg/Kg	135031		11/20/04 2329	lmr
	Magnesium, Solid*	1900			1.7	10	1	mg/Kg	135031		11/20/04 2329	lmr
	Manganese, Solid*	540			0.13	1.0	1	mg/Kg	135031		11/20/04 2329	lmr
	Nickel, Solid*	20			0.25	1.0	1	mg/Kg	135031		11/20/04 2329	lmr
	Lead, Solid*	85			0.43	1.5	1	mg/Kg	135031		11/20/04 2329	lmr
	Potassium, Solid*	840			14	50	1	mg/Kg	135031		11/20/04 2329	lmr

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-007M-S0  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-17  
 Date Received.....: 11/10/2004  
 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	0.20	U		0.055	0.20	1.00000	mg/Kg	135895		11/19/04 1828	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135895		11/19/04 1828	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135895		11/19/04 1828	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135895		11/19/04 1828	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135895		11/19/04 1828	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135895		11/19/04 1828	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135895		11/19/04 1828	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135895		11/19/04 1828	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 1828	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 1828	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	135895		11/19/04 1828	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135895		11/19/04 1828	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135895		11/19/04 1828	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135895		11/19/04 1828	san
8332M	NG/PETM by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135888		11/19/04 0258	san	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7ss-007M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K100349-008    Work Order #....: GWNQML1AA    Matrix.....: SOLID  
Date Sampled...: 11/08/04 15:00    Date Received...: 11/10/04  
Prep Date.....: 11/16/04    Analysis Date...: 11/18/04  
Prep Batch #...: 4321529  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: H7ss-007M-SO

General Chemistry

Lot-Sample #...: G4K100349-008    Work Order #...: GWNGM  
Date Sampled...: 11/08/04 15:00    Date Received...: 11/10/04

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Nitrocellulose	2.4 J	2.0	mg/kg	MCAAM 353.2	11/11-11/13/04	4316564
			Dilution Factor: 1	Initial Wgt/Vol: 10 g		Final Wgt/Vol...: 40 mL
			MDL.....: 0.57			

**NOTE(S) :**

RL Reporting Limit  
J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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TEST METHOD		PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method		% Solids Determination	87.7			0.10	0.10	1	%	134211		11/13/04 1109	daJ
		% Solids, Solid				0.10	0.10	1	%	134211		11/13/04 1109	daJ
		% Moisture, Solid	12.3										
353.2		Nitrogen, NO2, NO3 (Auto Cd Red.)	0.93		B	0.62	2.2	1	mg/Kg	135419		11/23/04 1527	kd
		Nitrate as N (NO3-N), Solid*											

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: EE7ss-008M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 15:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-22  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP T4 ACSS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-008M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 15:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-22  
 Date Received.....: 11/10/2004  
 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	87.7		0.10	0.10	1	%	134211		11/13/04 1109	daj
	% Moisture, Solid	12.3		0.10	0.10	1	%	134211		11/13/04 1109	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4	U	0.44	1.4	1	mg/Kg	134864		11/18/04 1720	daj
7841	Thallium (GFAA) Thallium, Solid*	0.60	U	0.19	0.60	1	mg/Kg	134716		11/17/04 1923	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.046		0.0049	0.019	1	mg/Kg	135393		11/23/04 1413	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	8000		2.6	16	1	mg/Kg	135031		11/21/04 0024	Lmr
	Barium, Solid*	66		0.17	1.1	1	mg/Kg	135031		11/21/04 0024	Lmr
	Arsenic, Solid*	12		0.56	1.6	1	mg/Kg	135031		11/21/04 0024	Lmr
	Beryllium, Solid*	0.65		0.048	0.44	1	mg/Kg	135031		11/21/04 0024	Lmr
	Cadmium, Solid*	0.27	U	0.087	0.27	1	mg/Kg	135031		11/21/04 0024	Lmr
	Calcium, Solid*	7100		3.4	11	1	mg/Kg	135031		11/21/04 0024	Lmr
	Chromium, Solid*	21		0.24	1.1	1	mg/Kg	135031		11/21/04 0024	Lmr
	Cobalt, Solid*	8.0		0.15	0.55	1	mg/Kg	135031		11/21/04 0024	Lmr
	Copper, Solid*	19		0.98	3.3	1	mg/Kg	135031		11/21/04 0024	Lmr
	Iron, Solid*	20000		3.3	11	1	mg/Kg	135031		11/21/04 0024	Lmr
	Magnesium, Solid*	2000		1.9	11	1	mg/Kg	135031		11/21/04 0024	Lmr
	Manganese, Solid*	590		0.14	1.1	1	mg/Kg	135031		11/21/04 0024	Lmr
	Nickel, Solid*	19		0.27	1.1	1	mg/Kg	135031		11/21/04 0024	Lmr
	Lead, Solid*	35		0.47	1.6	1	mg/Kg	135031		11/21/04 0024	Lmr
	Potassium, Solid*	840		15	55	1	mg/Kg	135031		11/21/04 0024	Lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: NICK Engineers, Inc.			PROJECT: USACE RYAAP 14 AGCS			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-008M-S0			Laboratory Sample ID: 231832-22									
Date Sampled.....: 11/08/2004			Date Received.....: 11/10/2004									
Time Sampled.....: 15:40			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
	Selenium, Solid*	0.72	B		0.44	1.6	1	mg/Kg	135031		11/21/04 0024	Lmr
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135031		11/21/04 0024	Lmr
	Sodium, Solid*	210	B		95	330	1	mg/Kg	135031		11/21/04 0024	Lmr
	Vanadium, Solid*	16			0.23	1.1	1	mg/Kg	135031		11/21/04 0024	Lmr
	Zinc, Solid*	76			0.44	2.2	1	mg/Kg	135031		11/21/04 0024	Lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-008M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 15:40 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-22 Date Received.....: 11/10/2004 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	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 2142	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135895		11/19/04 2142	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135895		11/19/04 2142	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135895		11/19/04 2142	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135895		11/19/04 2142	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135895		11/19/04 2142	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 2142	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135895		11/19/04 2142	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135895		11/19/04 2142	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 2142	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135895		11/19/04 2142	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 2142	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 2142	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 2142	san

\* In Description = Dry Wgt.

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TEST METHOD		PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method		% Solids Determination	97.9			0.10	0.10	1	%	134211		11/13/04 1111	daj
		% Solids, Solid	2.1			0.10	0.10	1	%	134211		11/13/04 1111	daj
353.2		Nitrogen, NO2, NO3 (Auto Cd Red.)	1.5	B		0.55	1.9	1	mg/Kg	135419		11/23/04 1528	kd
		Nitrate as N (NO3-N), Solid*											

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-009M-SQ

Laboratory Sample ID: 231832-23

Date Sampled: 11/08/2004

Date Received: 11/10/2004

Time Sampled: 16:20

Time Received: 09:45

Sample Matrix: Soil

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**LABORATORY TEST RESULTS**

Job Number: 231832 Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-009M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 16:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-23  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	97.9			0.10	0.10	1	%	134211		11/13/04 1111	daj
	% Moisture, Solid	2.1			0.10	0.10	1	%	134211		11/13/04 1111	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.44	1.4	1	mg/Kg	134864		11/18/04 1733	daj
7841	Thallium (GFAA) Thallium, Solid*	0.60		U	0.19	0.60	1	mg/Kg	134716		11/17/04 1948	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.037			0.0044	0.017	1	mg/Kg	135393		11/23/04 1415	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.3	15	1	mg/Kg	135031		11/21/04 0030	Lmr
	Barium, Solid*	81			0.16	0.97	1	mg/Kg	135031		11/21/04 0030	Lmr
	Arsenic, Solid*	13			0.49	1.5	1	mg/Kg	135031		11/21/04 0030	Lmr
	Beryllium, Solid*	0.88			0.043	0.39	1	mg/Kg	135031		11/21/04 0030	Lmr
	Cadmium, Solid*	0.13		B	0.078	0.24	1	mg/Kg	135031		11/21/04 0030	Lmr
	Calcium, Solid*	12000			3.0	9.7	1	mg/Kg	135031		11/21/04 0030	Lmr
	Chromium, Solid*	22			0.21	0.97	1	mg/Kg	135031		11/21/04 0030	Lmr
	Cobalt, Solid*	11			0.14	0.49	1	mg/Kg	135031		11/21/04 0030	Lmr
	Copper, Solid*	25			0.87	2.9	1	mg/Kg	135031		11/21/04 0030	Lmr
	Iron, Solid*	23000			2.9	9.7	1	mg/Kg	135031		11/21/04 0030	Lmr
	Magnesium, Solid*	4400			1.6	9.7	1	mg/Kg	135031		11/21/04 0030	Lmr
	Manganese, Solid*	500			0.13	0.97	1	mg/Kg	135031		11/21/04 0030	Lmr
	Nickel, Solid*	29			0.24	0.97	1	mg/Kg	135031		11/21/04 0030	Lmr
	Lead, Solid*	45			0.42	1.5	1	mg/Kg	135031		11/21/04 0030	Lmr
	Potassium, Solid*	1400			13	49	1	mg/Kg	135031		11/21/04 0030	Lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: PKM Engineers, Inc.			PROJECT: USACE RVAAP 1A AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-009M-SD Date Sampled.....: 11/08/2004 Time Sampled.....: 16:20 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-23 Date Received.....: 11/10/2004 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.69	B		0.39	1.5	1	mg/Kg	135031		11/21/04 0030	Lmr
	Silver, Solid*	0.97	U		0.30	0.97	1	mg/Kg	135031		11/21/04 0030	Lmr
	Sodium, Solid*	270	B		84	290	1	mg/Kg	135031		11/21/04 0030	Lmr
	Vanadium, Solid*	19			0.20	0.97	1	mg/Kg	135031		11/21/04 0030	Lmr
	Zinc, Solid*	91			0.39	1.9	1	mg/Kg	135031		11/21/04 0030	Lmr

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231832

Date: 12/03/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-009M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 16:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-23  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 2215	san
	RDX, Solid	0.53	U		0.062	0.20	1.00000	mg/Kg	135895		11/19/04 2215	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135895		11/19/04 2215	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135895		11/19/04 2215	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135895		11/19/04 2215	san
	2,4,6-TNT, Solid	0.89	U		0.024	0.099	1.00000	mg/Kg	135895		11/19/04 2215	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 2215	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135895		11/19/04 2215	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 2215	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 2215	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135895		11/19/04 2215	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135895		11/19/04 2215	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 2215	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 2215	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	18			1.2	5.0	10.0000	mg/Kg	135888		12/01/04 1836	san

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LL7ss-009M-SO

Trace Level Organic Compounds

Lot-Sample #...: G4KI00349-004    Work Order #...: GWNQF1A    Matrix.....: SOLID  
Date Sampled...: 11/08/04 16:20    Date Received...: 11/10/04  
Prep Date.....: 11/16/04    Analysis Date...: 11/18/04  
Prep Batch #...: 4321529  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

Client Sample ID: LL7SS-009M-SO

General Chemistry

Lot-Sample #...: G4K100349-004    Work Order #...: GNNGF  
Date Sampled...: 11/08/04 16:20    Date Received...: 11/10/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Nitrocellulose	156 J,Q	10.0	mg/kg	MCAMW 353.2	ANALYSIS DATE	BATCH #
				Dilution Factor: 5	11/11-11/14/04	4316564
				MDL.....: 2.9	Initial Wgt/Vol: 10 g	Final Wgt/Vol...: 40 mL

NOTE(S) :

- RL Reporting Limit
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 12/02/2004

CUSTOMER: ~~WCM~~ Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-010M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-7  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	97.4			0.10	0.10	1	%	134212		11/13/04 1128	daj
	% Solids, Solid	2.6			0.10	0.10	1	%	134212		11/13/04 1128	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.84		B	0.55	1.9	1	mg/Kg	135424		11/23/04 1626	kd

\* In Description = Dry Wgt.



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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

CUSTOMER: MCM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-010M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-7  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	97.4		0.10	0.10	1	%	134212		11/13/04 1128	daj
	% Solids, Solid	2.6		0.10	0.10	1	%	134212		11/13/04 1128	daj
	% Moisture, Solid										
7041	Antimony (GFAA) Antimony, Solid*	0.72	B	0.44	1.4	1	mg/Kg	134864		11/19/04 0134	daj
7841	Thallium (GFAA) Thallium, Solid*	0.61	U	0.19	0.61	1	mg/Kg	134716		11/18/04 0128	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.025		0.0044	0.017	1	mg/Kg	135018		11/18/04 1533	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	11000		2.4	15	1	mg/Kg	135060		11/21/04 2155	tds
	Barium, Solid*	70		0.16	1.0	1	mg/Kg	135030		11/20/04 1256	lmr
	Arsenic, Solid*	10		0.52	1.5	1	mg/Kg	135030		11/20/04 1256	lmr
	Beryllium, Solid*	0.77		0.045	0.41	1	mg/Kg	135030		11/20/04 1256	lmr
	Cadmium, Solid*	0.12	B	0.081	0.25	1	mg/Kg	135030		11/20/04 1256	lmr
	Calcium, Solid*	1100		3.1	10	1	mg/Kg	135030		11/20/04 1256	lmr
	Chromium, Solid*	17		0.22	1.0	1	mg/Kg	135030		11/20/04 1256	lmr
	Cobalt, Solid*	10		0.14	0.51	1	mg/Kg	135030		11/20/04 1256	lmr
	Copper, Solid*	12		0.91	3.0	1	mg/Kg	135060		11/21/04 2155	tds
	Iron, Solid*	22000		3.0	10	1	mg/Kg	135030		11/20/04 1256	lmr
	Magnesium, Solid*	2500		1.7	10	1	mg/Kg	135030		11/20/04 1256	lmr
	Manganese, Solid*	580		0.13	1.0	1	mg/Kg	135030		11/20/04 1256	lmr
	Nickel, Solid*	19		0.25	1.0	1	mg/Kg	135030		11/20/04 1256	lmr
	Lead, Solid*	16		0.44	1.5	1	mg/Kg	135030		11/20/04 1256	lmr
	Potassium, Solid*	1000		14	51	1	mg/Kg	135060		11/21/04 2155	tds

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-010M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-7  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.56		B	0.41	1.5	1	mg/Kg	135030		11/20/04 1256	lmr
	Silver, Solid*	1.0		U	0.31	1.0	1	mg/Kg	135030		11/20/04 1256	lmr
	Sodium, Solid*	300		U	88	300	1	mg/Kg	135060		11/21/04 2155	tds
	Vanadium, Solid*	21			0.21	1.0	1	mg/Kg	135030		11/20/04 1256	lmr
	Zinc, Solid*	58			0.41	2.0	1	mg/Kg	135030		11/20/04 1256	lmr

\* In Description = Dry Wgt.

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Job Number: 231877

## LABORATORY TEST RESULTS

Date: 11/24/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellits

Customer Sample ID: LL7ss-010W-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-7  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135429		11/17/04 0744	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135429		11/17/04 0744	bdw

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-011M-SD Date Sampled.....: 11/09/2004 Time Sampled.....: 14:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-5 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	93.5			0.10	0.10	1	%	134212		11/13/04 1124	daj
	% Moisture, Solid	6.5			0.10	0.10	1	%	134212		11/13/04 1124	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.1		B	0.58	2.0	1	mg/Kg	135424		11/23/04 1625	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-011M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 14:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-5  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	93.5			0.10	0.10	1	%	134212		11/13/04 1124	daj
	% Solids, Solid	6.5			0.10	0.10	1	%	134212		11/13/04 1124	daj
	% Moisture, Solid											
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.46	1.4	1	mg/Kg	134864		11/19/04 0058	daj
7841	Thallium (GFAA) Thallium, Solid*	0.62		U	0.20	0.62	1	mg/Kg	134716		11/18/04 0103	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.034			0.0046	0.018	1	mg/Kg	135018		11/18/04 1528	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8400			2.4	15	1	mg/Kg	135060		11/21/04 2142	tds
	Barium, Solid*	70			0.16	1.0	1	mg/Kg	135030		11/20/04 1244	lmr
	Arsenic, Solid*	9.5			0.51	1.5	1	mg/Kg	135030		11/20/04 1244	lmr
	Beryllium, Solid*	0.64			0.044	0.40	1	mg/Kg	135030		11/20/04 1244	lmr
	Cadmium, Solid*	0.084		B	0.080	0.25	1	mg/Kg	135030		11/20/04 1244	lmr
	Calcium, Solid*	1300			3.1	10	1	mg/Kg	135030		11/20/04 1244	lmr
	Chromium, Solid*	19			0.22	1.0	1	mg/Kg	135030		11/20/04 1244	lmr
	Cobalt, Solid*	8.6			0.14	0.50	1	mg/Kg	135030		11/20/04 1244	lmr
	Copper, Solid*	12			0.90	3.0	1	mg/Kg	135060		11/21/04 2142	tds
	Iron, Solid*	18000			3.0	10	1	mg/Kg	135030		11/20/04 1244	lmr
	Magnesium, Solid*	1800			1.7	10	1	mg/Kg	135030		11/20/04 1244	lmr
	Manganese, Solid*	500			0.13	1.0	1	mg/Kg	135030		11/20/04 1244	lmr
	Nickel, Solid*	17			0.25	1.0	1	mg/Kg	135030		11/20/04 1244	lmr
	Lead, Solid*	22			0.43	1.5	1	mg/Kg	135030		11/20/04 1244	lmr
	Potassium, Solid*	860			14	50	1	mg/Kg	135060		11/21/04 2142	tds

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-011M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 14:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-5  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.46	B		0.40	1.5	1	mg/Kg	135030		11/20/04 1244	lmr
	Silver, Solid*	1.0	U		0.31	1.0	1	mg/Kg	135030		11/20/04 1244	lmr
	Sodium, Solid*	300	U		87	300	1	mg/Kg	135060		11/21/04 2142	tds
	Vanadium, Solid*	16			0.21	1.0	1	mg/Kg	135030		11/20/04 1244	lmr
	Zinc, Solid*	54			0.40	2.0	1	mg/Kg	135030		11/20/04 1244	lmr

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-011M-SO			Laboratory Sample ID: 231877-5									
Date Sampled.....: 11/09/2004			Date Received.....: 11/11/2004									
Time Sampled.....: 14:30			Time Received.....: 10:00									
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	0.85			0.056	0.20	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	RDX, Solid	0.084	J	a	0.062	0.20	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135429		11/17/04 0639	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135429		11/17/04 0639	bdw
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135429		11/17/04 0639	bdw	
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135466		11/19/04 1041	bdw

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LT7ss-011M-SO

Trace Level Organic Compounds

Lot-Sample #...: G4K110359-003    Work Order #...: GWRVN11A    Matrik.....: SOLID  
Date Sampled...: 11/09/04 14:30    Date Received...: 11/11/04  
Prep Date.....: 11/19/04    Analysis Date...: 11/20/04  
Prep Batch #...: 4322550  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPIC per



STL CHICAGO

Client Sample ID: IL7SS-011M-SO

General Chemistry

Lot-Sample #...: G4K110359-003    Work Order #...: GMRVN  
Date Sampled...: 11/09/04 14:30    Date Received...: 11/11/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.6 B,J	2.0	mg/kg	MCAW 353.2	11/20-11/24/04	4325110
			Dilution Factor: 1	Initial Wgt/Vol: 10 g		Final Wgt/Vol...: 40 mL
			MDL.....: 0.57			

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 231877		LABORATORY TEST RESULTS					Date: 12/02/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-012M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 13:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-11 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	95.8			0.10	0.10	1	%	134212		11/13/04 1139	daj
	% Moisture, Solid	4.2			0.10	0.10	1	%	134212		11/13/04 1139	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.96		B	0.53	1.9	1	mg/Kg	135424		11/23/04 1628	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 11/29/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-012N-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 13:50 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-11 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	95.8			0.10	0.10	1	%	134212		11/13/04 1139	daj
	% Solids, Solid	4.2			0.10	0.10	1	%	134212		11/13/04 1139	daj
	% Moisture, Solid											
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.45	1.4	1	mg/Kg	134864		11/19/04 0312	daj
7841	Thallium (GFAA) Thallium, Solid*	0.61		U	0.19	0.61	1	mg/Kg	134716		11/18/04 0308	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.025			0.0045	0.017	1	mg/Kg	135018		11/18/04 1553	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	6300			2.5	15	1	mg/Kg	135060		11/21/04 2308	tds
	Barium, Solid*	42			0.16	1.0	1	mg/Kg	135030		11/20/04 1412	lmr
	Arsenic, Solid*	8.3			0.52	1.5	1	mg/Kg	135030		11/20/04 1412	lmr
	Beryllium, Solid*	0.54			0.045	0.41	1	mg/Kg	135030		11/20/04 1412	lmr
	Cadmium, Solid*	0.22		B	0.082	0.26	1	mg/Kg	135030		11/20/04 1412	lmr
	Calcium, Solid*	1900			3.2	10	1	mg/Kg	135030		11/20/04 1412	lmr
	Chromium, Solid*	14			0.23	1.0	1	mg/Kg	135030		11/20/04 1412	lmr
	Cobalt, Solid*	6.2			0.14	0.51	1	mg/Kg	135030		11/20/04 1412	lmr
	Copper, Solid*	12			0.93	3.1	1	mg/Kg	135060		11/21/04 2308	tds
	Iron, Solid*	17000			3.1	10	1	mg/Kg	135030		11/20/04 1412	lmr
	Magnesium, Solid*	1700			1.7	10	1	mg/Kg	135030		11/20/04 1412	lmr
	Manganese, Solid*	300			0.13	1.0	1	mg/Kg	135030		11/20/04 1412	lmr
	Nickel, Solid*	14			0.26	1.0	1	mg/Kg	135030		11/20/04 1412	lmr
	Lead, Solid*	24			0.44	1.5	1	mg/Kg	135030		11/20/04 1412	lmr
	Potassium, Solid*	670			14	51	1	mg/Kg	135060		11/21/04 2308	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 11/29/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-012M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 13:50 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-11 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.60		B	0.41	1.5	1	mg/Kg	135030		11/20/04 14:12	lmr
	Silver, Solid*	1.0		U	0.32	1.0	1	mg/Kg	135030		11/20/04 14:12	lmr
	Sodium, Solid*	310		U	89	310	1	mg/Kg	135060		11/21/04 23:08	tds
	Vanadium, Solid*	12			0.22	1.0	1	mg/Kg	135030		11/20/04 14:12	lmr
	Zinc, Solid*	58			0.41	2.1	1	mg/Kg	135030		11/20/04 14:12	lmr

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/24/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RMAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-012M-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 13:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-11  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	MMX, Solid	0.89			0.056	0.20	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	RDX, Solid	0.44			0.063	0.20	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135429		11/17/04 1204	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135429		11/17/04 1204	bdw

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AGCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-013M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-8  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	92.0			0.10	0.10	1	%	134212		11/13/04 1130	daj
	% Solids, Solid	8.0			0.10	0.10	1	%	134212		11/13/04 1130	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.4		B	0.52	1.8	1	mg/Kg	135419		11/23/04 1528	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 11/29/2004						
CUSTOMER: NKN Engineers, Inc.				PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-013M-SO Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-8 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	92.0			0.10	0.10	1	%	134212		11/13/04 1130	daj
	% Moisture, Solid	8.0			0.10	0.10	1	%	134212		11/13/04 1130	daj
7041	Antimony (GFAA) Antimony, Solid*	0.57		B	0.47	1.5	1	mg/Kg	134864		11/19/04 0146	daj
7841	Thallium (GFAA) Thallium, Solid*	0.64		U	0.20	0.64	1	mg/Kg	134716		11/18/04 0141	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.32			0.0047	0.018	1	mg/Kg	135018		11/18/04 1539	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8900			2.4	15	1	mg/Kg	135060		11/21/04 2201	tds
	Barium, Solid*	63			0.16	0.98	1	mg/Kg	135030		11/20/04 1329	lmr
	Arsenic, Solid*	10			0.50	1.5	1	mg/Kg	135030		11/20/04 1329	lmr
	Beryllium, Solid*	0.71			0.043	0.39	1	mg/Kg	135030		11/20/04 1329	lmr
	Cadmium, Solid*	0.36			0.078	0.25	1	mg/Kg	135030		11/20/04 1329	lmr
	Calcium, Solid*	3200			3.0	9.8	1	mg/Kg	135030		11/20/04 1329	lmr
	Chromium, Solid*	18			0.22	0.98	1	mg/Kg	135030		11/20/04 1329	lmr
	Cobalt, Solid*	8.1			0.14	0.49	1	mg/Kg	135030		11/20/04 1329	lmr
	Copper, Solid*	15			0.88	2.9	1	mg/Kg	135060		11/21/04 2201	tds
	Iron, Solid*	19000			2.9	9.8	1	mg/Kg	135030		11/20/04 1329	lmr
	Magnesium, Solid*	2000			1.7	9.8	1	mg/Kg	135030		11/20/04 1329	lmr
	Manganese, Solid*	490			0.13	0.98	1	mg/Kg	135030		11/20/04 1329	lmr
	Nickel, Solid*	17			0.25	0.98	1	mg/Kg	135030		11/20/04 1329	lmr
	Lead, Solid*	64			0.42	1.5	1	mg/Kg	135030		11/20/04 1329	lmr
	Potassium, Solid*	780			14	49	1	mg/Kg	135060		11/21/04 2201	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-013M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-8  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.96	B		0.39	1.5	1	mg/Kg	135030		11/20/04 1329	lmr
	Silver, Solid*	0.98	U		0.30	0.98	1	mg/Kg	135030		11/20/04 1329	lmr
	Sodium, Solid*	290	U		85	290	1	mg/Kg	135060		11/21/04 2201	tds
	Vanadium, Solid*	17			0.21	0.98	1	mg/Kg	135030		11/20/04 1329	lmr
	Zinc, Solid*	70			0.39	2.0	1	mg/Kg	135030		11/20/04 1329	lmr

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 12/06/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RYAAP 14 AGES				ACTN: ERIC Ellis				
Customer Sample ID: LL7ss-013M-50 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-8 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	18	U		1.7	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	beta-BHC, 3541 Solid*	18	U		1.6	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	delta-BHC, 3541 Solid*	18	U		1.2	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	gamma-BHC (Lindane), 3541 Solid*	18	U		2.4	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Heptachlor, 3541 Solid*	18	U	*	1.9	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Aldrin, 3541 Solid*	18	U	*	1.4	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Heptachlor epoxide, 3541 Solid*	18	U		1.5	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Endosulfan I, 3541 Solid*	18	U	*	2.9	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Dieldrin, 3541 Solid*	18	U		3.6	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	4,4'-DDE, 3541 Solid*	21	U		6.9	21	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Endrin, 3541 Solid*	18	U		4.6	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Endosulfan II, 3541 Solid*	18	U		3.0	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	4,4'-DDD, 3541 Solid*	18	U		3.8	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Endosulfan sulfate, 3541 Solid*	18	U		3.1	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	4,4'-DDT, 3541 Solid*	18	U		3.9	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Methoxychlor, 3541 Solid*	88	U		24	88	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	alpha-Chlordane, 3541 Solid*	18	U		1.3	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	gamma-Chlordane, 3541 Solid*	18	U		1.6	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Endrin aldehyde, 3541 Solid*	18	U		3.5	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Endrin ketone, 3541 Solid*	18	U		3.1	18	10.0000	ug/Kg	136280		11/25/04 0236	kdI
	Toxaphene, 3541 Solid*	180	U		49	180	10.0000	ug/Kg	136280		11/25/04 0236	kdI
Method	% Solids Determination											
	% Solids, Solid	92.0			0.10	0.10	1	%	134212		11/13/04 1130	da j
	% Moisture, Solid	8.0			0.10	0.10	1	%	134212		11/13/04 1130	da j

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS							Date:12/02/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE: RVAAP: 14: AOCs				ATTN: Eric Elliott					
Customer Sample ID: LL7ss-013M-SO Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-8 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	35		U	9.4	35	1.00000	ug/Kg	135913		11/24/04 0239	bjt
	Aroclor 1221, 3541 Solid*	35		U	4.9	35	1.00000	ug/Kg	135913		11/24/04 0239	bjt
	Aroclor 1232, 3541 Solid*	18		U	4.8	18	1.00000	ug/Kg	135913		11/24/04 0239	bjt
	Aroclor 1242, 3541 Solid*	35		U	5.2	35	1.00000	ug/Kg	135913		11/24/04 0239	bjt
	Aroclor 1248, 3541 Solid*	18		U	3.9	18	1.00000	ug/Kg	135913		11/24/04 0239	bjt
	Aroclor 1254, 3541 Solid*	35		U	4.8	35	1.00000	ug/Kg	135913		11/24/04 0239	bjt
	Aroclor 1260, 3541 Solid*	35		U	13	35	1.00000	ug/Kg	135913		11/24/04 0239	bjt
Method	% Solids Determination											
	% Solids, Solid	92.0			0.10	0.10	1	%	134212		11/13/04 1130	daj
	% Moisture, Solid	8.0			0.10	0.10	1	%	134212		11/13/04 1130	daj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231833

Date: 11/20/2004

CUSTOMER: MKN Engineers, Inc.

PROJECT: USACE RVAAP 16 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-0130-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231833-5  
 Date Received.....: 11/10/2004  
 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	79.9			0.10	0.10	1	%	134159		11/12/04 1616	gok
	% Moisture, Solid	20.1			0.10	0.10	1	%	134159		11/12/04 1616	gok
8260B	Volatile Organics											
	Chloromethane, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Vinyl chloride, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Bromomethane, Solid*	6.3	U		1.6	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Chloroethane, Solid*	6.3	U		1.3	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	1,1-Dichloroethene, Solid*	6.3	U		1.6	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Carbon disulfide, Solid*	6.3	U		1.5	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Acetone, Solid*	19	U		5.8	19	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Methylene chloride, Solid*	13	U		3.6	13	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	trans-1,2-Dichloroethene, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	1,1-Dichloroethane, Solid*	6.3	U		1.3	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	cis-1,2-Dichloroethene, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	2-Butanone (MEK), Solid*	19	U		4.9	19	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Bromochloromethane, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Chloroform, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	1,1,1-Trichloroethane, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Carbon tetrachloride, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Benzene, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	1,2-Dichloroethane, Solid*	6.3	U		1.2	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Trichloroethene, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	1,2-Dichloropropane, Solid*	6.3	U		1.3	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	Bromodichloromethane, Solid*	6.3	U		1.2	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
	cis-1,3-Dichloropropene, Solid*	6.3	U		1.2	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj
4-Methyl-2-pentanone (MIBK), Solid*	13	U		1.3	13	1.0000	ug/Kg	133968		11/10/04 2137	jdj	
Toluene, Solid*	6.3	U		1.4	6.3	1.0000	ug/Kg	133968		11/10/04 2137	jdj	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231833

Date: 11/20/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVARP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-013D-50  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231833-5  
 Date Received.....: 11/10/2004  
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	trans-1,3-Dichloropropene, Solid*	6.3	U		0.99	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	1,1,2-Trichloroethane, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	Tetrachloroethene, Solid*	6.3	U		1.5	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	2-Hexanone, Solid*	13	U		1.4	13	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	Dibromochloromethane, Solid*	6.3	U		0.99	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	1,2-Dibromoethane (EDB), Solid*	6.3	U		1.0	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	Chlorobenzene, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	Ethylbenzene, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	m&p-Xylenes, Solid*	13	U		2.9	13	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	o-Xylene, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	Styrene, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	Bromoform, Solid*	6.3	U		0.94	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	1,1,2,2-Tetrachloroethane, Solid*	6.3	U		1.2	6.3	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	1,2-Dichloroethene (total), Solid*	13	U		2.6	13	1.00000	ug/Kg	133968		11/10/04 2137	jdj
	Xylenes (total), Solid*	13	U		4.3	13	1.00000	ug/Kg	133968		11/10/04 2137	jdj

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/03/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-013M-SO			Laboratory Sample ID: 231877-8									
Date Sampled.....: 11/09/2004			Date Received.....: 11/11/2004									
Time Sampled.....: 10:00			Time Received.....: 10:00									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	180	U		7.5	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	71	U		9.4	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	180	U		14	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	180	U		16	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Benzyl alcohol, 3541 Low Solid*	710	U		78	710	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	71	U		11	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	71	U		14	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Hexachloroethane, 3541 Low Solid*	180	U		9.1	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	71	U		13	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2-Chlorophenol, 3541 Low Solid*	180	U		14	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Nitrobenzene, 3541 Low Solid*	35	U		9.1	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	71	U		9.3	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	180	U		14	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Benzoic acid, 3541 Low Solid*	710	U	*	210	710	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Isophorone, 3541 Low Solid*	180	U		21	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	350	U		17	350	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Hexachlorobutadiene, 3541 Low Solid*	180	U		9.5	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Naphthalene, 3541 Low Solid*	170	U		8.9	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	350	U		16	350	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	4-Chloroaniline, 3541 Low Solid*	710	U		57	710	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	180	U		40	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	350	U		47	350	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		320	1100	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2-Methylnaphthalene, 3541 Low Solid*	88	U		11	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2-Nitroaniline, 3541 Low Solid*	180	U		11	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2-Chloronaphthalene, 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk

\* In Description = Dry Wgt.

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Job Number: 231877

## LABORATORY TEST RESULTS

Date: 12/03/2004

CUSTOMER: HKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-013M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-8  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	350	U		37	350	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	35	U		9.8	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2-Nitrophenol, 3541 Low Solid*	350	U		16	350	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	3-Nitroaniline, 3541 Low Solid*	710	U		150	710	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Dimethyl phthalate, 3541 Low Solid*	71	U		9.4	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	710	U	*	110	710	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Acenaphthylene, 3541 Low Solid*	35	U		8.8	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	35	U		11	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Acenaphthene, 3541 Low Solid*	830	U		8.8	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Dibenzofuran, 3541 Low Solid*	210	U		9.3	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	4-Nitrophenol, 3541 Low Solid*	710	U		220	710	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Fluorene, 3541 Low Solid*	450	U		9.5	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	4-Nitroaniline, 3541 Low Solid*	710	U		47	710	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	180	U		11	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Hexachlorobenzene, 3541 Low Solid*	35	U		10	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Diethyl phthalate, 3541 Low Solid*	71	U		10	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	180	U		10	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Pentachlorophenol, 3541 Low Solid*	350	U		120	350	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	35	U		11	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	710	U		180	710	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Phenanthrene, 3541 Low Solid*	5200	U		80	260	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk
	Anthracene, 3541 Low Solid*	1500	U	H	58	170	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk
	Carbazole, 3541 Low Solid*	850	U		13	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	180	U		12	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Fluoranthene, 3541 Low Solid*	8200	U	H	57	170	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk
	Pyrene, 3541 Low Solid*	5900	U		64	260	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	71	U		11	71	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Benzo(a)anthracene, 3541 Low Solid*	3100	U	H	52	170	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk
	Chrysene, 3541 Low Solid*	3300	U	H	56	170	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877								Date: 12/03/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE RYAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-013M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-8 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	180		U	16	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	180		U	34	180	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	350		U	11	350	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	3000		H	47	170	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	1900		H	50	170	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk
	Benzo(a)pyrene, 3541 Low Solid*	2300			10	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	830			11	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	420		K	50	170	5.00000	ug/Kg	135942	D1	12/01/04 1534	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	880			12	35	1.00000	ug/Kg	135942		11/30/04 1858	dpk
Method	% Solids Determination											
	% Solids, Solid	92.0			0.10	0.10	1	%	134212		11/13/04 1130	daj
	% Moisture, Solid	8.0			0.10	0.10	1	%	134212		11/13/04 1130	daj

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-013H-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-8 Date Received.....: 11/11/2004 Time Received.....: 10:00									
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	0.15	J	a	0.056	0.20	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.032	0.099	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	2,4,6-TNT, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	2,6-Dinitrotoluene, Solid	0.28	U		0.048	0.20	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.10	J	a	0.045	0.20	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135429		11/17/04 0817	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135429		11/17/04 0817	bdw
3-Nitrotoluene, Solid	0.13	J	a	0.053	0.20	1.00000	mg/Kg	135429		11/17/04 0817	bdw	
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135466		11/19/04 1152	bdw	

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LL7ss-013M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K110359-001    Work Order #....: GWRVH1A    Matrix.....: SOLID  
Date Sampled....: 11/09/04 10:00    Date Received..: 11/11/04  
Prep Date.....: 11/19/04    Analysis Date..: 11/20/04  
Prep Batch #....: 4322550  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

PARAMETER	DETECTION		UNITS	METHOD
	RESULT	LIMIT		
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

Client Sample ID: LL7SS-013M-SO

General Chemistry

Lot-Sample #...: G4K110359-001    Work Order #...: GWRVH  
Date Sampled...: 11/09/04 10:00    Date Received...: 11/11/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Nitrocellulose	1.2 B,J	2.0	mg/kg	MCAW 353.2	11/20-11/24/04	4325110
				Dilution Factor: 1		Final Wgt/Vol...: 40 mL
				MDL.....: 0.57		

**NOTE(S) :**

- RL Reporting Limit
- B Estimated result. Result is less than RL.
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14-AOCS			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-013M-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-9 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	REL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	92.6			0.10	0.10	1	%	134212		11/13/04 1134	daj
	% Solids, Solid	7.4			0.10	0.10	1	%	134212		11/13/04 1134	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	2.2			0.56	2.0	1	mg/Kg	135424		11/23/04 1627	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 11/29/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-013M-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-9 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	92.6			0.10	0.10	1	%	134212		11/13/04 1134	daj
	% Solids, Solid	7.4			0.10	0.10	1	%	134212		11/13/04 1134	daj
	% Moisture, Solid											
7041	Antimony (GFAA) Antimony, Solid*	0.58		B	0.46	1.5	1	mg/Kg	134864		11/19/04 0247	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63		U	0.20	0.63	1	mg/Kg	134716		11/18/04 0231	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.35			0.0046	0.018	1	mg/Kg	135018		11/18/04 1549	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8800			2.5	16	1	mg/Kg	135060		11/21/04 2256	tds
	Barium, Solid*	62			0.17	1.1	1	mg/Kg	135030		11/20/04 1400	lmr
	Arsenic, Solid*	10			0.54	1.6	1	mg/Kg	135030		11/20/04 1400	lmr
	Beryllium, Solid*	0.73			0.046	0.42	1	mg/Kg	135030		11/20/04 1400	lmr
	Cadmium, Solid*	0.30			0.084	0.26	1	mg/Kg	135030		11/20/04 1400	lmr
	Calcium, Solid*	3700			3.3	11	1	mg/Kg	135030		11/20/04 1400	lmr
	Chromium, Solid*	18			0.23	1.1	1	mg/Kg	135030		11/20/04 1400	lmr
	Cobalt, Solid*	8.7			0.15	0.53	1	mg/Kg	135030		11/20/04 1400	lmr
	Copper, Solid*	15			0.95	3.2	1	mg/Kg	135060		11/21/04 2256	tds
	Iron, Solid*	19000			3.2	11	1	mg/Kg	135030		11/20/04 1400	lmr
	Magnesium, Solid*	2100			1.8	11	1	mg/Kg	135030		11/20/04 1400	lmr
	Manganese, Solid*	510			0.14	1.1	1	mg/Kg	135030		11/20/04 1400	lmr
	Nickel, Solid*	16			0.26	1.1	1	mg/Kg	135030		11/20/04 1400	lmr
	Lead, Solid*	43			0.45	1.6	1	mg/Kg	135030		11/20/04 1400	lmr
Potassium, Solid*	790			15	53	1	mg/Kg	135060		11/21/04 2256	tds	

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAKP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-013M-DUP  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-9  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.79		B	0.42	1.6	1	mg/Kg	135030		11/20/04 1400	Lmr
	Silver, Solid*	1.1		U	0.33	1.1	1	mg/Kg	135030		11/20/04 1400	Lmr
	Sodium, Solid*	320		U	91	320	1	mg/Kg	135060		11/21/04 2256	tds
	Vanadium, Solid*	17			0.22	1.1	1	mg/Kg	135030		11/20/04 1400	Lmr
	Zinc, Solid*	67			0.42	2.1	1	mg/Kg	135030		11/20/04 1400	Lmr

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 12/06/2004						
CUSTOMER: MKN Engineers, Inc.				PROJECT: USAGE RNAAP 14 ACES				ATTN: Eric Ellits				
Customer Sample ID: LL7ss-D13M-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-9 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.8	U		0.17	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	beta-BHC, 3541 Solid*	1.8	U		0.16	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	delta-BHC, 3541 Solid*	1.8	U		0.11	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	gamma-BHC (Lindane), 3541 Solid*	1.8	U		0.24	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Heptachlor, 3541 Solid*	1.8	U	*	0.19	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Aldrin, 3541 Solid*	1.8	U	*	0.13	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Heptachlor epoxide, 3541 Solid*	1.8	U		0.14	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Endosulfan I, 3541 Solid*	1.8	U	*	0.28	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Dieldrin, 3541 Solid*	1.8	U		0.35	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	4,4'-DDE, 3541 Solid*	2.1	U		0.67	2.1	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Endrin, 3541 Solid*	1.8	U		0.44	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Endosulfan II, 3541 Solid*	1.8	U		0.29	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	4,4'-DDD, 3541 Solid*	1.8	U		0.37	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Endosulfan sulfate, 3541 Solid*	1.8	U		0.30	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	4,4'-DDT, 3541 Solid*	1.8	U		0.38	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Methoxychlor, 3541 Solid*	8.6	U		2.4	8.6	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	alpha-Chlordane, 3541 Solid*	1.8	U		0.12	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	gamma-Chlordane, 3541 Solid*	1.8	U		0.16	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Endrin aldehyde, 3541 Solid*	1.8	U		0.34	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Endrin ketone, 3541 Solid*	1.8	U		0.30	1.8	1.00000	ug/Kg	136280		11/25/04 0352	kdL
	Toxaphene, 3541 Solid*	17	U		4.8	17	1.00000	ug/Kg	136280		11/25/04 0352	kdL
Method	% Solids Determination											
	% Solids, Solid	92.6			0.10	0.10	1	%	134212		11/13/04 1134	da j
	% Moisture, Solid	7.4			0.10	0.10	1	%	134212		11/13/04 1134	da j

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-013M-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-9 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	34	U	9.2	34	1.00000	ug/Kg	135913		11/24/04 0647	bjt	
	Aroclor 1221, 3541 Solid*	34	U	4.8	34	1.00000	ug/Kg	135913		11/24/04 0647	bjt	
	Aroclor 1232, 3541 Solid*	17	U	4.7	17	1.00000	ug/Kg	135913		11/24/04 0647	bjt	
	Aroclor 1242, 3541 Solid*	34	U	5.1	34	1.00000	ug/Kg	135913		11/24/04 0647	bjt	
	Aroclor 1248, 3541 Solid*	17	U	3.8	17	1.00000	ug/Kg	135913		11/24/04 0647	bjt	
	Aroclor 1254, 3541 Solid*	34	U	4.7	34	1.00000	ug/Kg	135913		11/24/04 0647	bjt	
	Aroclor 1260, 3541 Solid*	34	U	13	34	1.00000	ug/Kg	135913		11/24/04 0647	bjt	
Method	% Solids Determination											
	% Solids, Solid	92.6		0.10	0.10	1	%	134212		11/13/04 1134	daj	
	% Moisture, Solid	7.4		0.10	0.10	1	%	134212		11/13/04 1134	daj	

\* In Description = Dry Wgt.





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LABORATORY TEST RESULTS												
Job Number: 231833								Date: 11/20/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-013D-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231833-6 Date Received.....: 11/10/2004 Time Received.....: 09:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLACS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	trans-1,3-Dichloropropene, Solid*	6.3	U		0.99	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	1,1,2-Trichloroethane, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	Tetrachloroethene, Solid*	6.3	U		1.5	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	2-Hexanone, Solid*	13	U		1.4	13	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	Dibromochloromethane, Solid*	6.3	U		0.99	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	1,2-Dibromoethane (EDB), Solid*	6.3	U		1.0	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	Chlorobenzene, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	Ethylbenzene, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	m&p-Xylenes, Solid*	13	U		2.9	13	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	o-Xylene, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	Styrene, Solid*	6.3	U		1.4	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	Bromoform, Solid*	6.3	U		0.94	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	1,1,2,2-Tetrachloroethane, Solid*	6.3	U		1.2	6.3	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	1,2-Dichloroethene (total), Solid*	13	U		2.6	13	1.00000	ug/Kg	133968		11/10/04 2300	jdj
	Xylenes (total), Solid*	13	U		4.3	13	1.00000	ug/Kg	133968		11/10/04 2300	jdj

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/03/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 1: AOC5			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-013M-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-9 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	180	U		7.6	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	71	U		9.5	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	180	U		14	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	180	U		16	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Benzyl alcohol, 3541 Low Solid*	710	U		79	710	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	71	U		11	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	71	U		14	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Hexachloroethane, 3541 Low Solid*	180	U		9.2	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	14	J		13	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2-Chlorophenol, 3541 Low Solid*	180	U		14	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Nitrobenzene, 3541 Low Solid*	35	U		9.2	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	71	U		9.4	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Benzoic acid, 3541 Low Solid*	710	U	*	210	710	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Isophorone, 3541 Low Solid*	180	U		21	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	350	U		17	350	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Hexachlorobutadiene, 3541 Low Solid*	180	U		9.6	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Naphthalene, 3541 Low Solid*	200	U		9.0	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	350	U		17	350	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	4-Chloroaniline, 3541 Low Solid*	710	U		57	710	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	180	U		40	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	350	U		48	350	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		330	1100	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2-Methylnaphthalene, 3541 Low Solid*	100	U		11	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2-Nitroaniline, 3541 Low Solid*	180	U		12	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2-Chloronaphthalene, 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877

Date: 12/03/2004

CUSTOMER: KRM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-013M-DUP  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-9  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	350	U	37	350	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	35	U	9.8	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2-Nitrophenol, 3541 Low Solid*	350	U	16	350	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	3-Nitroaniline, 3541 Low Solid*	710	U	150	710	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Dimethyl phthalate, 3541 Low Solid*	71	U	9.5	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	710	U *	110	710	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Acenaphthylene, 3541 Low Solid*	35	U	8.9	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	35	U	11	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Acenaphthene, 3541 Low Solid*	970	U	8.9	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Dibenzofuran, 3541 Low Solid*	250	U	9.4	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	4-Nitrophenol, 3541 Low Solid*	710	U	230	710	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Fluorene, 3541 Low Solid*	530	U	9.6	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	4-Nitroaniline, 3541 Low Solid*	710	U	48	710	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	180	U	11	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Hexachlorobenzene, 3541 Low Solid*	35	U	10	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Diethyl phthalate, 3541 Low Solid*	71	U	10	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	180	U	11	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Pentachlorophenol, 3541 Low Solid*	350	U	120	350	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	35	U	11	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	710	U	180	710	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Phenanthrene, 3541 Low Solid*	6100	U	81	270	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk
	Anthracene, 3541 Low Solid*	1800	H	58	180	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk
	Carbazole, 3541 Low Solid*	1000	U	13	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	180	U	12	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Fluoranthene, 3541 Low Solid*	9000	U	57	180	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk
	Pyrene, 3541 Low Solid*	6500	U	64	270	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	71	U	11	71	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Benzo(a)anthracene, 3541 Low Solid*	3600	H	53	180	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk
	Chrysene, 3541 Low Solid*	4000	H	56	180	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877				Date: 12/03/2004								
CUSTOMER: HKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-013M-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-9 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	180		U	16	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	180		U	34	180	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	350		U	11	350	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	3400		H	47	180	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	2000		H	50	180	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk
	Benzo(a)pyrene, 3541 Low Solid*	2900		H	51	180	5.00000	ug/Kg	135942	D1	12/01/04 1601	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	1000			11	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	460			10	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	1200			12	35	1.00000	ug/Kg	135942		11/30/04 2011	dpk
Method	% Solids Determination											
	% Solids, Solid	92.6			0.10	0.10	1	%	134212		11/13/04 1134	daj
	% Moisture, Solid	7.4			0.10	0.10	1	%	134212		11/13/04 1134	daj

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOC5				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-013M-DUP Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-9 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HNX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	2,6-Dinitrotoluene, Solid	0.15	J	a	0.049	0.20	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	2-Nitrotoluene, Solid	0.11	J	a	0.048	0.20	1.00000	mg/Kg	135429		11/17/04 1059	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135429		11/17/04 1059	bdw
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135429		11/17/04 1059	bdw	
8332M	NG/PETN by 8332M (HPLC) Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135466		11/19/04 1338	bdw

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LL7ss-013M-DUP

Trace Level Organic Compounds

Matrix..... SOLID

Lot-Sample #....: G4K110359-002    Work Order #....: GMRVLLAA  
Date Sampled....: 11/09/04 10:00    Date Received..: 11/11/04  
Prep Date.....: 11/19/04    Analysis Date...: 11/20/04  
Prep Batch #....: 4322550  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: IL7ss-013M-DUP

General Chemistry

Matrix.....: SOLID

Lot-Sample #....: G4K110359-002      Work Order #....: GMRVL  
Date Sampled....: 11/09/04 10:00      Date Received...: 11/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.6 B,J	2.0	mg/kg	MCAWW 353.2	11/20-11/24/04	4325110
			Dilution Factor: 1	Initial Wgt/Vol: 10 g		Final Wgt/Vol...: 40 mL
			MDL.....: 0.57			

**NOTE(S) :**

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS										Date: 12/02/2004	
Job Number: 231877			PROJECT: USACE RYAAP: 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-014M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil					Laboratory Sample ID: 231877-23 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	97.5		0.10	0.10	1	%	133996		11/11/04 1337	daj
	% Solids, Solid			0.10	0.10	1	%	133996		11/11/04 1337	daj
	% Moisture, Solid	2.5									
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.71	S	0.50	1.7	1	mg/Kg	135424		11/23/04 1633	kd

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 11/29/2004						
CUSTOMER: HGM Engineers, Inc.				PROJECT: USAGE RVAAP 14 AGGS				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-014M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-23 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	97.5			0.10	0.10	1	%	133996		11/11/04 1337	daj
	% Moisture, Solid	2.5			0.10	0.10	1	%	133996		11/11/04 1337	daj
7041	Antimony (GFAA) Antimony, Solid*	1.3		U	0.40	1.3	1	mg/Kg	134864		11/18/04 2136	daj
7841	Thallium (GFAA) Thallium, Solid*	0.55		U	0.17	0.55	1	mg/Kg	134716		11/17/04 2153	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.026			0.0044	0.017	1	mg/Kg	135018		11/18/04 1504	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8900			2.3	15	1	mg/Kg	135366		11/23/04 1657	tds
	Barium, Solid*	56			0.14	0.86	1	mg/Kg	135030		11/20/04 1707	lmr
	Arsenic, Solid*	9.0			0.44	1.3	1	mg/Kg	135030		11/20/04 1707	lmr
	Beryllium, Solid*	0.75			0.038	0.34	1	mg/Kg	135030		11/20/04 1707	lmr
	Cadmium, Solid*	0.20		B	0.069	0.22	1	mg/Kg	135030		11/20/04 1707	lmr
	Calcium, Solid*	11000			2.7	8.6	1	mg/Kg	135030		11/20/04 1707	lmr
	Chromium, Solid*	14			0.19	0.86	1	mg/Kg	135030		11/20/04 1707	lmr
	Cobalt, Solid*	7.5			0.12	0.43	1	mg/Kg	135030		11/20/04 1707	lmr
	Copper, Solid*	14			0.88	2.9	1	mg/Kg	135366		11/23/04 1657	tds
	Iron, Solid*	16000			2.6	8.6	1	mg/Kg	135030		11/20/04 1707	lmr
	Magnesium, Solid*	2800			1.5	8.6	1	mg/Kg	135030		11/20/04 1707	lmr
	Manganese, Solid*	490			0.11	0.86	1	mg/Kg	135030		11/20/04 1707	lmr
	Nickel, Solid*	14			0.22	0.86	1	mg/Kg	135030		11/20/04 1707	lmr
	Lead, Solid*	15			0.37	1.3	1	mg/Kg	135030		11/20/04 1707	lmr
	Potassium, Solid*	930			13	49	1	mg/Kg	135366		11/23/04 1657	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 11/29/2004						
CUSTOMER: HKN Engineers, Inc.				PROJECT: USACE RWAMP T&A005				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-014M-SO Date Sampled.....: 11/09/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-23 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.80	B		0.39	1.5	1	mg/Kg	135366		11/23/04 1657	tds
	Silver, Solid*	0.59	B		0.27	0.86	1	mg/Kg	135030		11/20/04 1707	lmr
	Sodium, Solid*	320			85	290	1	mg/Kg	135366		11/23/04 1657	tds
	Vanadium, Solid*	14			0.18	0.86	1	mg/Kg	135030		11/20/04 1707	lmr
	Zinc, Solid*	57			0.34	1.7	1	mg/Kg	135030		11/20/04 1707	lmr

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 12/02/2004

CUSTOMER: WCH Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Elites

Customer Sample ID: LL7ss-014M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-23  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

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	7.9			0.56	2.0	10.0000	mg/Kg	135440	D1	11/19/04 0535	bdw
	RDX, Solid	45			0.62	2.0	10.0000	mg/Kg	135440	D1	11/19/04 0535	bdw
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	2,4,6-TNT, Solid	2.7			0.024	0.099	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/18/04 0141	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/18/04 0141	bdw

*Handwritten:* 12-6-04

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/01/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS			ATTN: Eric Ellis					
Customer Sample ID: LL7ss-015M-SD Date Sampled.....: 11/08/2004 Time Sampled.....: 16:40 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-12 Date Received.....: 11/10/2004 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	96.9		0.10	0.10	1	%	134211		11/13/04 1047	daj
	% Solids, Solid	3.1		0.10	0.10	1	%	134211		11/13/04 1047	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.65	B	0.57	2.0	1	mg/Kg	135419		11/23/04 1520	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231832

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: ERIC ELLIS

Customer Sample ID: LL7ss-015M-SO  
 Date Sampled.....: 11/08/2004  
 Time Sampled.....: 16:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231832-12  
 Date Received.....: 11/10/2004  
 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	96.9			0.10	0.10	1	%	134211		11/13/04 1047	daj
	% Moisture, Solid	3.1			0.10	0.10	1	%	134211		11/13/04 1047	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.43	1.4	1	mg/Kg	134864		11/18/04 1455	daj
7841	Thallium (GFAA) Thallium, Solid*	0.58		U	0.18	0.58	1	mg/Kg	134716		11/17/04 1415	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.031			0.0044	0.017	1	mg/Kg	135393		11/23/04 1344	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9400			2.2	14	1	mg/Kg	135031		11/20/04 2258	lmr
	Barium, Solid*	76			0.15	0.91	1	mg/Kg	135031		11/20/04 2258	lmr
	Arsenic, Solid*	16			0.47	1.4	1	mg/Kg	135031		11/20/04 2258	lmr
	Beryllium, Solid*	0.84			0.040	0.37	1	mg/Kg	135031		11/20/04 2258	lmr
	Cadmium, Solid*	0.080		B	0.073	0.23	1	mg/Kg	135031		11/20/04 2258	lmr
	Calcium, Solid*	8300			2.8	9.1	1	mg/Kg	135031		11/20/04 2258	lmr
	Chromium, Solid*	21			0.20	0.91	1	mg/Kg	135031		11/20/04 2258	lmr
	Cobalt, Solid*	9.4			0.13	0.46	1	mg/Kg	135031		11/20/04 2258	lmr
	Copper, Solid*	20			0.82	2.7	1	mg/Kg	135031		11/20/04 2258	lmr
	Iron, Solid*	22000			2.7	9.1	1	mg/Kg	135031		11/20/04 2258	lmr
	Magnesium, Solid*	3100			1.6	9.1	1	mg/Kg	135031		11/20/04 2258	lmr
	Manganese, Solid*	660			0.12	0.91	1	mg/Kg	135031		11/20/04 2258	lmr
Nickel, Solid*	22			0.23	0.91	1	mg/Kg	135031		11/20/04 2258	lmr	
Lead, Solid*	49			0.39	1.4	1	mg/Kg	135031		11/20/04 2258	lmr	
Potassium, Solid*	970			13	46	1	mg/Kg	135031		11/20/04 2258	lmr	

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-015M-S0			Laboratory Sample ID: 231832-12									
Date Sampled.....: 11/08/2004			Date Received.....: 11/10/2004									
Time Sampled.....: 16:40			Time Received.....: 09:45									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.48	B		0.37	1.4	1	mg/Kg	135031		11/20/04 2258	Lmr
	Silver, Solid*	0.91	U		0.28	0.91	1	mg/Kg	135031		11/20/04 2258	Lmr
	Sodium, Solid*	240	B		79	270	1	mg/Kg	135031		11/20/04 2258	Lmr
	Vanadium, Solid*	18			0.19	0.91	1	mg/Kg	135031		11/20/04 2258	Lmr
	Zinc, Solid*	110			0.37	1.8	1	mg/Kg	135031		11/20/04 2258	Lmr

\* In Description = Dry Wgt.

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Job Number: 231832		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-015M-S0 Date Sampled.....: 11/08/2004 Time Sampled.....: 16:40 Sample Matrix.....: Soil			Laboratory Sample ID: 231832-12 Date Received.....: 11/10/2004 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135895		11/19/04 1513	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135895		11/19/04 1513	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135895		11/19/04 1513	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135895		11/19/04 1513	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135895		11/19/04 1513	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135895		11/19/04 1513	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135895		11/19/04 1513	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135895		11/19/04 1513	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135895		11/19/04 1513	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135895		11/19/04 1513	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135895		11/19/04 1513	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135895		11/19/04 1513	san
4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135895		11/19/04 1513	san	
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135895		11/19/04 1513	san	
8332M	NG/PEIN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135888		11/19/04 0223	san	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: IL7ss-015M-SO

Trace Level Organic Compounds

Lot-Sample #...: G4K100349-001    Work Order #...: GWN071AA    Matrix.....: SOLID  
Date Sampled...: 11/08/04 16:40    Date Received..: 11/10/04  
Prep Date.....: 11/16/04    Analysis Date..: 11/17/04  
Prep Batch #...: 4321529  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per



STL CHICAGO

Client Sample ID: LL7ss-015M-SO

General Chemistry

Lot-Sample #....: G4K100349-001    Work Order #....: GRNF7  
Date Sampled....: 11/08/04 16:40    Date Received...: 11/10/04

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
Nitrocellulose	1.1 B,J	2.0	mg/kg	MCAMW 353.2	ANALYSIS DATE	BATCH #
				Dilution Factor: 1	11/11-11/13/04	4316564
				MDL.....: 0.57	Initial Wgt/Vol: 10 g	Final Wgt/Vol...: 40 mL

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS

Job Number: 231877

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADGS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-016M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 11:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-4  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	99.0			0.10	0.10	1	%	134212		11/13/04 1121	daj
	% Solids, Solid				0.10	0.10	1	%	134212		11/13/04 1121	daj
	% Moisture, Solid	1.0										
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.9		U	0.55	1.9	1	mg/Kg	135424		11/23/04 1624	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 11/29/2004

Job Number: 231877

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAMP 14 AOCs

ATTN: Eric Elits

Customer Sample ID: LL7ss-016M-50  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 11:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-4  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	99.0		0.10	0.10	1	%	134212		11/13/04 1121	daj
	% Solids, Solid			0.10	0.10	1	%	134212		11/13/04 1121	daj
	% Moisture, Solid	1.0									
7041	Antimony (GFAA) Antimony, Solid*	1.4	U	0.43	1.4	1	mg/Kg	134864		11/19/04 0045	daj
7841	Thallium (GFAA) Thallium, Solid*	0.58	U	0.18	0.58	1	mg/Kg	134716		11/18/04 0037	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.037		0.0043	0.017	1	mg/Kg	135018		11/18/04 1526	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	7600		2.3	14	1	mg/Kg	135060		11/21/04 2136	tds
	Barium, Solid*	52		0.15	0.94	1	mg/Kg	135030		11/20/04 1238	Lmr
	Arsenic, Solid*	10		0.48	1.4	1	mg/Kg	135030		11/20/04 1238	Lmr
	Beryllium, Solid*	0.65		0.041	0.38	1	mg/Kg	135030		11/20/04 1238	Lmr
	Cadmium, Solid*	0.19	B	0.075	0.24	1	mg/Kg	135030		11/20/04 1238	Lmr
	Calcium, Solid*	2100		2.9	9.4	1	mg/Kg	135030		11/20/04 1238	Lmr
	Chromium, Solid*	14		0.21	0.94	1	mg/Kg	135030		11/20/04 1238	Lmr
	Cobalt, Solid*	8.6		0.13	0.47	1	mg/Kg	135030		11/20/04 1238	Lmr
	Copper, Solid*	13		0.85	2.8	1	mg/Kg	135060		11/21/04 2136	tds
	Iron, Solid*	18000		2.8	9.4	1	mg/Kg	135030		11/20/04 1238	Lmr
	Magnesium, Solid*	1700		1.6	9.4	1	mg/Kg	135030		11/20/04 1238	Lmr
	Manganese, Solid*	520		0.12	0.94	1	mg/Kg	135030		11/20/04 1238	Lmr
	Nickel, Solid*	14		0.24	0.94	1	mg/Kg	135030		11/20/04 1238	Lmr
	Lead, Solid*	26		0.40	1.4	1	mg/Kg	135030		11/20/04 1238	Lmr
Potassium, Solid*	690		13	47	1	mg/Kg	135060		11/21/04 2136	tds	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 11/29/2004

Job Number: 231877

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-016M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 11:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-4  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.66	B		0.38	1.4	1	mg/Kg	135030		11/20/04 1238	lmr
	Silver, Solid*	0.94	U		0.29	0.94	1	mg/Kg	135030		11/20/04 1238	lmr
	Sodium, Solid*	280	U		82	280	1	mg/Kg	135060		11/21/04 2136	tds
	Vanadium, Solid*	16			0.20	0.94	1	mg/Kg	135030		11/20/04 1238	lmr
	Zinc, Solid*	63			0.38	1.9	1	mg/Kg	135030		11/20/04 1238	lmr

\* In Description = Dry Wgt.

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Job Number: 231877 LABORATORY TEST RESULTS Date: 11/24/2004

CUSTOMER: HKM Engineers, Inc. PROJECT: USACE RYAAP 14 AGCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-016M-SO Laboratory Sample ID: 231877-4  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 11:10 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135429		11/17/04 0606	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135429		11/17/04 0606	bdw
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135429		11/17/04 0606	bdw	

\* In Description = Dry Wgt.

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Job Number: 231912 LABORATORY TEST RESULTS Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-017M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-29  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	87.3			0.10	0.10	1	%	134487		11/16/04 1222	daj
	% Solids, Solid	12.7			0.10	0.10	1	%	134487		11/16/04 1222	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	4.0			0.065	2.3	1	mg/Kg	135434		11/23/04 1714	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKN Engineers, Inc.

PROJECT: USACE RYAAP 14 ADCS

ATTN: ERIC ELIUS

Customer Sample ID: LL7ss-017M-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-29  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.3			0.10	0.10	1	%	134487		11/16/04 1222	daj
	% Moisture, Solid	12.7			0.10	0.10	1	%	134487		11/16/04 1222	daj
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.46	1.5	1	mg/Kg	135006		11/19/04 1956	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63		U	0.20	0.63	1	mg/Kg	135008		11/19/04 2349	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.019		U	0.0049	0.019	1	mg/Kg	135393		11/23/04 1700	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	15000			2.6	16	1	mg/Kg	135536		11/24/04 1803	tds
	Barium, Solid*	130			0.17	1.1	1	mg/Kg	135536		11/24/04 1803	tds
	Arsenic, Solid*	9.1			0.55	1.6	1	mg/Kg	135536		11/24/04 1803	tds
	Beryllium, Solid*	2.1			0.047	0.43	1	mg/Kg	135536		11/24/04 1803	tds
	Cadmium, Solid*	0.95			0.086	0.27	1	mg/Kg	135536		11/24/04 1803	tds
	Calcium, Solid*	42000			3.3	11	1	mg/Kg	135536		11/24/04 1803	tds
	Chromium, Solid*	30			0.24	1.1	1	mg/Kg	135536		11/24/04 1803	tds
	Cobalt, Solid*	5.1			0.15	0.54	1	mg/Kg	135536		11/24/04 1803	tds
	Copper, Solid*	28			0.97	3.2	1	mg/Kg	135536		11/24/04 1803	tds
	Iron, Solid*	16000			3.2	11	1	mg/Kg	135536		11/24/04 1803	tds
	Magnesium, Solid*	7700			1.8	11	1	mg/Kg	135536		11/24/04 1803	tds
	Manganese, Solid*	1100			0.14	1.1	1	mg/Kg	135536		11/24/04 1803	tds
	Nickel, Solid*	18			0.27	1.1	1	mg/Kg	135536		11/24/04 1803	tds
	Lead, Solid*	59			0.46	1.6	1	mg/Kg	135536		11/24/04 1803	tds
	Potassium, Solid*	1300			15	54	1	mg/Kg	135536		11/24/04 1803	tds

\* In Description = Dry Wgt.

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Job Number: 231912 LABORATORY TEST RESULTS Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RYANP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-017M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-29  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.3		B	0.43	1.6	1	mg/Kg	135536		11/24/04 1803	tds
	Silver, Solid*	1.1		U	0.33	1.1	1	mg/Kg	135536		11/24/04 1803	tds
	Sodium, Solid*	510			93	320	1	mg/Kg	135536		11/24/04 1803	tds
	Vanadium, Solid*	15			0.23	1.1	1	mg/Kg	135536		11/24/04 1803	tds
	Zinc, Solid*	92			0.43	2.1	1	mg/Kg	135536		11/24/04 1803	tds

\* In Description = Dry Wgt.



## LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-017M-80  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-29  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

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	0.20	U		0.056	0.20	1.00000	mg/Kg	135657		11/20/04 1923	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135657		11/20/04 1923	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135657		11/20/04 1923	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135657		11/20/04 1923	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135657		11/20/04 1923	san
	2,4,6-TNT, Solid	0.085	J	a	0.024	0.099	1.00000	mg/Kg	135657		11/20/04 1923	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135657		11/20/04 1923	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135657		11/20/04 1923	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1923	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1923	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135657		11/20/04 1923	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135657		11/20/04 1923	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135657		11/20/04 1923	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135657		11/20/04 1923	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	2.9			0.12	0.50	1.00000	mg/Kg	135669		11/19/04 2306	san

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: IL7ss-017M-SO

Trace Level Organic Compounds

Matrix.....: SOLID

Lot-Sample #....: G4K120333-006    Work Order #....: GWN08G1AA  
Date Sampled....: 11/10/04 14:50    Date Received...: 11/12/04  
Prep Date.....: 11/19/04    Analysis Date...: 11/21/04  
Prep Batch #....: 4322550  
Dilution Factor: 1    Initial wgt/Vol: 2 g    Final wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LL7SS-017M-S0

General Chemistry

Matrix.....: SOLID

Lot-Sample #....: G4K120333-006    Work Order #....: GWW8G  
Date Sampled....: 11/10/04 14:50    Date Received...: 11/12/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	6.3 J	2.0	mg/kg	MCAWW 353.2	11/20-11/24/04	4325110
				Dilution Factor: 1	Initial Wgt/Vol: 10 g	Final Wgt/Vol...: 40 mL
				MDL.....: 0.57		

NOTE(S) :

RL Reporting Limit  
J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 231912		LABORATORY TEST RESULTS						Date:12/02/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-018M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 11:40 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-10 Date Received.....: 11/12/2004 Time Received.....: 09:15								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	86.6		0.10	0.10	1	%	134235		11/14/04 1931	clb
	% Solids, Solid	13.4		0.10	0.10	1	%	134235		11/14/04 1931	clb
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	4.4		0.62	2.2	1	mg/Kg	135424		11/23/04 1641	kd

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RMAAP 14-AOCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-018M-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:40  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-10  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	86.6			0.10	0.10	1	%	134235		11/14/04 1931	clb
	% Moisture, Solid	13.4			0.10	0.10	1	%	134235		11/14/04 1931	clb
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.49	1.6	1	mg/Kg	135006		11/19/04 1347	daj
7841	Thallium (GFAA) Thallium, Solid*	0.67		U	0.21	0.67	1	mg/Kg	135008		11/19/04 1720	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.073			0.0050	0.019	1	mg/Kg	135664		11/24/04 1456	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	13000			2.7	17	1	mg/Kg	135536		11/24/04 1406	tds
	Barium, Solid*	120			0.18	1.1	1	mg/Kg	135536		11/24/04 1406	tds
	Arsenic, Solid*	7.9			0.58	1.7	1	mg/Kg	135536		11/24/04 1406	tds
	Beryllium, Solid*	1.9			0.050	0.45	1	mg/Kg	135536		11/24/04 1406	tds
	Cadmium, Solid*	0.40			0.091	0.28	1	mg/Kg	135536		11/24/04 1406	tds
	Calcium, Solid*	51000			3.5	11	1	mg/Kg	135536		11/24/04 1406	tds
	Chromium, Solid*	28			0.25	1.1	1	mg/Kg	135536		11/24/04 1406	tds
	Cobalt, Solid*	6.2			0.16	0.57	1	mg/Kg	135536		11/24/04 1406	tds
	Copper, Solid*	88			1.0	3.4	1	mg/Kg	135536		11/24/04 1406	tds
	Iron, Solid*	16000			3.4	11	1	mg/Kg	135536		11/24/04 1406	tds
	Magnesium, Solid*	6500			1.9	11	1	mg/Kg	135536		11/24/04 1406	tds
	Manganese, Solid*	1200			0.15	1.1	1	mg/Kg	135536		11/24/04 1406	tds
	Nickel, Solid*	17			0.28	1.1	1	mg/Kg	135536		11/24/04 1406	tds
	Lead, Solid*	44			0.49	1.7	1	mg/Kg	135536		11/24/04 1406	tds
	Potassium, Solid*	1300			16	57	1	mg/Kg	135536		11/24/04 1406	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date:12/01/2004				
CUSTOMER: MKM Engineers, Inc			PROJECT: USACE RVAAP 14 ROCS			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-018M-S0			Laboratory Sample ID: 231912-10									
Date Sampled.....: 11/10/2004			Date Received.....: 11/12/2004									
Time Sampled.....: 11:40			Time Received.....: 09:15									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.4	B		0.45	1.7	1	mg/Kg	135536		11/24/04 1406	tds
	Silver, Solid*	1.1	U		0.35	1.1	1	mg/Kg	135536		11/24/04 1406	tds
	Sodium, Solid*	430			98	340	1	mg/Kg	135536		11/24/04 1406	tds
	Vanadium, Solid*	14			0.24	1.1	1	mg/Kg	135536		11/24/04 1406	tds
	Zinc, Solid*	77			0.45	2.3	1	mg/Kg	135536		11/24/04 1406	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS							Date: 11/30/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADDS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-018M-SO Date Sampled.....: 11/10/2004 Time Sampled.....: 11:40 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-10 Date Received.....: 11/12/2004 Time Received.....: 09:15									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	135654		11/18/04 1336	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135654		11/18/04 1336	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135654		11/18/04 1336	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135654		11/18/04 1336	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135654		11/18/04 1336	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135654		11/18/04 1336	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135654		11/18/04 1336	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135654		11/18/04 1336	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 1336	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	135654		11/18/04 1336	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135654		11/18/04 1336	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 1336	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135654		11/18/04 1336	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135654		11/18/04 1336	san

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-018M-QA Date Sampled.....: 11/10/2004 Time Sampled.....: 11:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-2 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	89.0			0.10	0.10	1	%	134235		11/14/04 1908	ctb
	% Solids, Solid	11.0			0.10	0.10	1	%	134235		11/14/04 1908	ctb
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	5.3			0.60	2.1	1	mg/Kg	135424		11/23/04 1635	kd

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-018M-QA  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-2  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	89.0		0.10	0.10	1	%	134235		11/14/04 1908	clb
	% Moisture, Solid	11.0		0.10	0.10	1	%	134235		11/14/04 1908	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5	U	0.48	1.5	1	mg/Kg	135006		11/19/04 1107	daj
7841	Thallium (GFAA) Thallium, Solid*	0.66	U	0.21	0.66	1	mg/Kg	135008		11/19/04 1157	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.057		0.0048	0.019	1	mg/Kg	135664		11/24/04 1424	gok
60108	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	12000		2.6	17	1	mg/Kg	135536		11/24/04 1227	tds
	Barium, Solid*	110		0.18	1.1	1	mg/Kg	135536		11/24/04 1227	tds
	Arsenic, Solid*	8.0		0.56	1.7	1	mg/Kg	135536		11/24/04 1227	tds
	Beryllium, Solid*	1.5		0.049	0.44	1	mg/Kg	135536		11/24/04 1227	tds
	Cadmium, Solid*	0.44		0.088	0.28	1	mg/Kg	135536		11/24/04 1227	tds
	Calcium, Solid*	49000		3.4	11	1	mg/Kg	135536		11/24/04 1227	tds
	Chromium, Solid*	29		0.24	1.1	1	mg/Kg	135536		11/24/04 1227	tds
	Cobalt, Solid*	5.9		0.15	0.55	1	mg/Kg	135536		11/24/04 1227	tds
	Copper, Solid*	20		0.99	3.3	1	mg/Kg	135536		11/24/04 1227	tds
	Iron, Solid*	15000		3.3	11	1	mg/Kg	135536		11/24/04 1227	tds
	Magnesium, Solid*	5600		1.9	11	1	mg/Kg	135536		11/24/04 1227	tds
	Manganese, Solid*	990		0.14	1.1	1	mg/Kg	135536		11/24/04 1227	tds
	Nickel, Solid*	17		0.28	1.1	1	mg/Kg	135536		11/24/04 1227	tds
	Lead, Solid*	47		0.47	1.7	1	mg/Kg	135536		11/24/04 1227	tds
	Potassium, Solid*	1300		15	55	1	mg/Kg	135536		11/24/04 1227	tds

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231912 Date: 12/01/2004

CUSTOMER: MCM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-018M-QA  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-2  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.1		B	0.44	1.7	1	mg/Kg	135536		11/24/04 1227	tds
	Silver, Solid*	1.1		U	0.34	1.1	1	mg/Kg	135536		11/24/04 1227	tds
	Sodium, Solid*	400			96	330	1	mg/Kg	135536		11/24/04 1227	tds
	Vanadium, Solid*	15			0.23	1.1	1	mg/Kg	135536		11/24/04 1227	tds
	Zinc, Solid*	84			0.44	2.2	1	mg/Kg	135536		11/24/04 1227	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: ERIC ELLIS

Customer Sample ID: LL7ss-018M-QA  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-2  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

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	0.20		U	0.056	0.20	1.00000	mg/Kg	135654		11/18/04 0706	san
	RDX, Solid	4.4			0.063	0.20	1.00000	mg/Kg	135654		11/18/04 0706	san
	1,3,5-Trinitrobenzene, Solid	0.10		U	0.033	0.10	1.00000	mg/Kg	135654		11/18/04 0706	san
	1,3-Dinitrobenzene, Solid	0.10		U	0.024	0.10	1.00000	mg/Kg	135654		11/18/04 0706	san
	Nitrobenzene, Solid	0.10		U	0.021	0.10	1.00000	mg/Kg	135654		11/18/04 0706	san
	2,4,6-TNT, Solid	0.10		U	0.024	0.10	1.00000	mg/Kg	135654		11/18/04 0706	san
	Tetryl, Solid	0.40		U	0.12	0.40	1.00000	mg/Kg	135654		11/18/04 0706	san
	2,4-Dinitrotoluene, Solid	0.10		U	0.026	0.10	1.00000	mg/Kg	135654		11/18/04 0706	san
	2,6-Dinitrotoluene, Solid	0.20		U	0.049	0.20	1.00000	mg/Kg	135654		11/18/04 0706	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20		U	0.046	0.20	1.00000	mg/Kg	135654		11/18/04 0706	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30		U	0.094	0.30	1.00000	mg/Kg	135654		11/18/04 0706	san
	2-Nitrotoluene, Solid	0.20		U	0.048	0.20	1.00000	mg/Kg	135654		11/18/04 0706	san
	4-Nitrotoluene, Solid	0.20		U	0.050	0.20	1.00000	mg/Kg	135654		11/18/04 0706	san
	3-Nitrotoluene, Solid	0.20		U	0.053	0.20	1.00000	mg/Kg	135654		11/18/04 0706	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE BVAAP 14 AOC5

ATTN: Eric Ellis

Customer Sample ID: LL7ss-019M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-4  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	92.6			0.10	0.10	1	%	134235		11/14/04 1914	clb
	% Solids, Solid	7.4			0.10	0.10	1	%	134235		11/14/04 1914	clb
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.3		B	0.57	2.0	1	mg/Kg	135424		11/23/04 1636	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USAGE RYMAP 14 ACES

ATTN: Eric Elife

Customer Sample ID: LL7ss-019M-50  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-4  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	92.6		0.10	0.10	1	%	134235		11/14/04 1914	clb
	% Moisture, Solid	7.4		0.10	0.10	1	%	134235		11/14/04 1914	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5	U	0.46	1.5	1	mg/Kg	135006		11/19/04 1144	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63	U	0.20	0.63	1	mg/Kg	135008		11/19/04 1234	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.057		0.0046	0.018	1	mg/Kg	135664		11/24/04 1429	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	14000		2.4	15	1	mg/Kg	135536		11/24/04 1240	tds
	Barium, Solid*	63		0.16	1.0	1	mg/Kg	135536		11/24/04 1240	tds
	Arsenic, Solid*	14		0.52	1.5	1	mg/Kg	135536		11/24/04 1240	tds
	Beryllium, Solid*	0.76		0.045	0.41	1	mg/Kg	135536		11/24/04 1240	tds
	Cadmium, Solid*	0.25	U	0.081	0.25	1	mg/Kg	135536		11/24/04 1240	tds
	Calcium, Solid*	3400		3.1	10	1	mg/Kg	135536		11/24/04 1240	tds
	Chromium, Solid*	25		0.22	1.0	1	mg/Kg	135536		11/24/04 1240	tds
	Cobalt, Solid*	7.9		0.14	0.51	1	mg/Kg	135536		11/24/04 1240	tds
	Copper, Solid*	17		0.91	3.0	1	mg/Kg	135536		11/24/04 1240	tds
	Iron, Solid*	26000		3.0	10	1	mg/Kg	135536		11/24/04 1240	tds
	Magnesium, Solid*	3100		1.7	10	1	mg/Kg	135536		11/24/04 1240	tds
	Manganese, Solid*	370		0.13	1.0	1	mg/Kg	135536		11/24/04 1240	tds
	Nickel, Solid*	21		0.25	1.0	1	mg/Kg	135536		11/24/04 1240	tds
	Lead, Solid*	19		0.44	1.5	1	mg/Kg	135536		11/24/04 1240	tds
	Potassium, Solid*	1200		14	51	1	mg/Kg	135536		11/24/04 1240	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-019M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 11:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-4 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.93	B		0.41	1.5	1	mg/Kg	135536		11/24/04 1240	tds
	Silver, Solid*	1.0	U		0.31	1.0	1	mg/Kg	135536		11/24/04 1240	tds
	Sodium, Solid*	320			88	300	1	mg/Kg	135536		11/24/04 1240	tds
	Vanadium, Solid*	24			0.21	1.0	1	mg/Kg	135536		11/24/04 1240	tds
	Zinc, Solid*	74			0.41	2.0	1	mg/Kg	135536		11/24/04 1240	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: Z31912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AGCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-019M-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: Z31912-4  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

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	0.20		U	0.056	0.20	1.00000	mg/Kg	135654		11/18/04 0811	san
	RDX, Solid	0.20		U	0.062	0.20	1.00000	mg/Kg	135654		11/18/04 0811	san
	1,3,5-Trinitrobenzene, Solid	0.099		U	0.032	0.099	1.00000	mg/Kg	135654		11/18/04 0811	san
	1,3-Dinitrobenzene, Solid	0.099		U	0.023	0.099	1.00000	mg/Kg	135654		11/18/04 0811	san
	Nitrobenzene, Solid	0.099		U	0.021	0.099	1.00000	mg/Kg	135654		11/18/04 0811	san
	2,4,6-TNT, Solid	0.099		U	0.023	0.099	1.00000	mg/Kg	135654		11/18/04 0811	san
	Tetryl, Solid	0.39		U	0.12	0.39	1.00000	mg/Kg	135654		11/18/04 0811	san
	2,4-Dinitrotoluene, Solid	0.099		U	0.025	0.099	1.00000	mg/Kg	135654		11/18/04 0811	san
	2,6-Dinitrotoluene, Solid	0.20		U	0.048	0.20	1.00000	mg/Kg	135654		11/18/04 0811	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20		U	0.045	0.20	1.00000	mg/Kg	135654		11/18/04 0811	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30		U	0.093	0.30	1.00000	mg/Kg	135654		11/18/04 0811	san
	2-Nitrotoluene, Solid	0.20		U	0.047	0.20	1.00000	mg/Kg	135654		11/18/04 0811	san
	4-Nitrotoluene, Solid	0.20		U	0.050	0.20	1.00000	mg/Kg	135654		11/18/04 0811	san
	3-Nitrotoluene, Solid	0.20		U	0.053	0.20	1.00000	mg/Kg	135654		11/18/04 0811	san
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50		U	0.12	0.50	1.00000	mg/Kg	135669		11/19/04 2044	san	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LI7ss-019M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K120333-001    Work Order #....: GWW731AA    Matrix.....: SOLID  
Date Sampled....: 11/10/04 11:15    Date Received..: 11/12/04  
Prep Date.....: 11/19/04    Analysis Date...: 11/21/04  
Prep Batch #....: 4322550  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per



STL, CHICAGO

Client Sample ID: IL7ss-019M-S0

General Chemistry

Matrix.....: SOLID

Lot-Sample #....: G4K120333-001    Work Order #....: GMM73  
Date Sampled....: 11/10/04 11:15    Date Received...: 11/12/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Nitrocellulose	1.0 B,J	2.0	mg/kg	MCAW 353.2	ANALYSIS DATE	BATCH #
			Dilution Factor: 1	Initial wgt/Vol: 10 g	11/20-11/24/04	4325110
			MDL.....: 0.57		Final wgt/Vol...: 40 mL	

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-020M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 10:05 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-11 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	89.4			0.10	0.10	1	%	134235		11/14/04 1934	ctb
	% Solids, Solid	10.6			0.10	0.10	1	%	134235		11/14/04 1934	ctb
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.92		B	0.061	2.1	1	mg/Kg	135434		11/23/04 1705	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: HKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: ERIC ELLIS

Customer Sample ID: LL7ss-020N-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 10:05  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-11  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	89.4		0.10	0.10	1	%	134235		11/14/04 1934	clb
	% Moisture, Solid	10.6		0.10	0.10	1	%	134235		11/14/04 1934	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5	U	0.48	1.5	1	mg/Kg	135006		11/19/04 1359	daj
7841	Thallium (GFAA) Thallium, Solid*	0.66	U	0.21	0.66	1	mg/Kg	135008		11/19/04 1733	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.059		0.0048	0.018	1	mg/Kg	135664		11/24/04 1458	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	13000		2.6	16	1	mg/Kg	135536		11/24/04 1412	tds
	Barium, Solid*	89		0.18	1.1	1	mg/Kg	135536		11/24/04 1412	tds
	Arsenic, Solid*	13		0.56	1.6	1	mg/Kg	135536		11/24/04 1412	tds
	Beryllium, Solid*	0.89		0.048	0.44	1	mg/Kg	135536		11/24/04 1412	tds
	Cadmium, Solid*	0.27	U	0.088	0.27	1	mg/Kg	135536		11/24/04 1412	tds
	Calcium, Solid*	1500		3.4	11	1	mg/Kg	135536		11/24/04 1412	tds
	Chromium, Solid*	25		0.24	1.1	1	mg/Kg	135536		11/24/04 1412	tds
	Cobalt, Solid*	9.1		0.15	0.55	1	mg/Kg	135536		11/24/04 1412	tds
	Copper, Solid*	11		0.99	3.3	1	mg/Kg	135536		11/24/04 1412	tds
	Iron, Solid*	28000		3.3	11	1	mg/Kg	135536		11/24/04 1412	tds
	Magnesium, Solid*	2400		1.9	11	1	mg/Kg	135536		11/24/04 1412	tds
	Manganese, Solid*	800		0.14	1.1	1	mg/Kg	135536		11/24/04 1412	tds
	Nickel, Solid*	18		0.27	1.1	1	mg/Kg	135536		11/24/04 1412	tds
	Lead, Solid*	20		0.47	1.6	1	mg/Kg	135536		11/24/04 1412	tds
	Potassium, Solid*	1200		15	55	1	mg/Kg	135536		11/24/04 1412	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MCM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-020M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 10:05 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-11 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DP	DATE/TIME	TECH
	Selenium, Solid*	1.0	B		0.44	1.6	1	mg/Kg	135536		11/24/04 1412	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135536		11/24/04 1412	tds
	Sodium, Solid*	320	B		95	330	1	mg/Kg	135536		11/24/04 1412	tds
	Vanadium, Solid*	28			0.23	1.1	1	mg/Kg	135536		11/24/04 1412	tds
	Zinc, Solid*	83			0.44	2.2	1	mg/Kg	135536		11/24/04 1412	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: NKN Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-020M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 10:05  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-11  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135654		11/18/04 1409	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135654		11/18/04 1409	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135654		11/18/04 1409	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135654		11/18/04 1409	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135654		11/18/04 1409	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135654		11/18/04 1409	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135654		11/18/04 1409	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135654		11/18/04 1409	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 1409	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 1409	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135654		11/18/04 1409	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135654		11/18/04 1409	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135654		11/18/04 1409	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135654		11/18/04 1409	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231912								Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-021M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 11:35 Sample Matrix.....: Soil						Laboratory Sample ID: 231912-5 Date Received.....: 11/12/2004 Time Received.....: 09:15						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	88.9			0.10	0.10	1	%	134235		11/14/04 1917	clb
	% Solids, Solid	11.1			0.10	0.10	1	%	134235		11/14/04 1917	clb
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.86		B	0.63	2.2	1	mg/Kg	135424		11/23/04 1637	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-021M-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-5  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	88.9			0.10	0.10	1	%	134235		11/14/04 1917	clb
	% Moisture, Solid	11.1			0.10	0.10	1	%	134235		11/14/04 1917	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.46	1.5	1	mg/Kg	135006		11/19/04 1156	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63		U	0.20	0.63	1	mg/Kg	135008		11/19/04 1247	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.047			0.0048	0.019	1	mg/Kg	135664		11/24/04 1431	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			2.6	16	1	mg/Kg	135536		11/24/04 1246	tds
	Barium, Solid*	72			0.17	1.1	1	mg/Kg	135536		11/24/04 1246	tds
	Arsenic, Solid*	10			0.55	1.6	1	mg/Kg	135536		11/24/04 1246	tds
	Beryllium, Solid*	0.70			0.047	0.43	1	mg/Kg	135536		11/24/04 1246	tds
	Cadmium, Solid*	0.27		U	0.086	0.27	1	mg/Kg	135536		11/24/04 1246	tds
	Calcium, Solid*	1000			3.3	11	1	mg/Kg	135536		11/24/04 1246	tds
	Chromium, Solid*	21			0.24	1.1	1	mg/Kg	135536		11/24/04 1246	tds
	Cobalt, Solid*	8.2			0.15	0.54	1	mg/Kg	135536		11/24/04 1246	tds
	Copper, Solid*	14			0.97	3.2	1	mg/Kg	135536		11/24/04 1246	tds
	Iron, Solid*	22000			3.2	11	1	mg/Kg	135536		11/24/04 1246	tds
	Magnesium, Solid*	2300			1.8	11	1	mg/Kg	135536		11/24/04 1246	tds
	Manganese, Solid*	440			0.14	1.1	1	mg/Kg	135536		11/24/04 1246	tds
	Nickel, Solid*	20			0.27	1.1	1	mg/Kg	135536		11/24/04 1246	tds
	Lead, Solid*	17			0.46	1.6	1	mg/Kg	135536		11/24/04 1246	tds
	Potassium, Solid*	930			15	54	1	mg/Kg	135536		11/24/04 1246	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: Z31912

Date: 12/01/2004

CUSTOMER: MCH Engineers, Inc.

PROJECT: USACE RYMAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-021M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: Z31912-5  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.66	B		0.43	1.6	1	mg/Kg	135536		11/24/04 1246	tds
	Silver, Solid*	1.1	U		0.33	1.1	1	mg/Kg	135536		11/24/04 1246	tds
	Sodium, Solid*	310	B		93	320	1	mg/Kg	135536		11/24/04 1246	tds
	Vanadium, Solid*	23			0.23	1.1	1	mg/Kg	135536		11/24/04 1246	tds
	Zinc, Solid*	68			0.43	2.1	1	mg/Kg	135536		11/24/04 1246	tds

\* In Description = Dry Wgt.



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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MGM Engineers, Inc.

PROJECT: USACE RVAAP 14 AQCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-021M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 11:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-5  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

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	0.20	U		0.056	0.20	1.00000	mg/Kg	135654		11/18/04 0843	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135654		11/18/04 0843	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135654		11/18/04 0843	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135654		11/18/04 0843	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135654		11/18/04 0843	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135654		11/18/04 0843	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135654		11/18/04 0843	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135654		11/18/04 0843	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 0843	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	135654		11/18/04 0843	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135654		11/18/04 0843	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 0843	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135654		11/18/04 0843	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135654		11/18/04 0843	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135669		11/19/04 2119	san

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LI7ss-021M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K120333-003    Work Order #....: GWW761AA    Matrix.....: SOLID  
Date Sampled....: 11/10/04 11:35    Date Received...: 11/12/04  
Prep Date.....: 11/19/04    Analysis Date...: 11/21/04  
Prep Batch #....: 4322550  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LI7SS-021M-SO

General Chemistry

Lot-Sample #....: G4K120333-003    Work Order #....: GWW76  
Date Sampled....: 11/10/04 11:35    Date Received...: 11/12/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Nitrocellulose	0.93 B,J	2.0	mg/kg	MCAW 353.2	11/20-11/24/04	4325110
				Dilution Factor: 1		
				Initial Wgt/Vol: 10 g		
				MDL.....: 0.57		Final Wgt/Vol...: 40 mL

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/02/2004					
CUSTOMER: MKM Engineers, Inc.		PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis							
Customer Sample ID: LL7ss-022M-S0		Date Sampled.....: 11/10/2004		Time Sampled.....: 12:05		Sample Matrix.....: Soil		Laboratory Sample ID: 231912-12		Date Received.....: 11/12/2004		Time Received.....: 09:15	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
Method	% Solids Determination	97.9			0.10	0.10	1	%	134235		11/14/04 1937	clb	
	% Solids, Solid	2.1			0.10	0.10	1	%	134235		11/14/04 1937	clb	
353.2	% Moisture, Solid												
	Nitrogen, NO2, NO3 (Auto Cd Red.)												
	Nitrate as N (NO3-N), Solid*	0.84	B		0.050	1.8	1	mg/Kg	135434		11/23/04 1706	kd	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-022M-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:05  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-12  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	BY	DATE/TIME	TECH
Method	% Solids Determination	97.9			0.10	0.10	1	%	134235		11/14/04 1937	clb
	% Solids, Solid	2.1			0.10	0.10	1	%	134235		11/14/04 1937	clb
	% Moisture, Solid											
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.43	1.4	1	mg/Kg	135006		11/19/04 1411	daj
7841	Thallium (GFAA) Thallium, Solid*	0.58		U	0.18	0.58	1	mg/Kg	135008		11/19/04 1745	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.053			0.0044	0.017	1	mg/Kg	135664		11/24/04 1500	gek
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	6900			2.3	14	1	mg/Kg	135536		11/24/04 1418	tds
	Barium, Solid*	46			0.15	0.96	1	mg/Kg	135536		11/24/04 1418	tds
	Arsenic, Solid*	9.8			0.49	1.4	1	mg/Kg	135536		11/24/04 1418	tds
	Beryllium, Solid*	0.62			0.042	0.38	1	mg/Kg	135536		11/24/04 1418	tds
	Cadmium, Solid*	0.22		B	0.077	0.24	1	mg/Kg	135536		11/24/04 1418	tds
	Calcium, Solid*	3200			3.0	9.6	1	mg/Kg	135536		11/24/04 1418	tds
	Chromium, Solid*	21			0.21	0.96	1	mg/Kg	135536		11/24/04 1418	tds
	Cobalt, Solid*	6.2			0.13	0.48	1	mg/Kg	135536		11/24/04 1418	tds
	Copper, Solid*	17			0.86	2.9	1	mg/Kg	135536		11/24/04 1418	tds
	Iron, Solid*	18000			2.9	9.6	1	mg/Kg	135536		11/24/04 1418	tds
	Magnesium, Solid*	1700			1.6	9.6	1	mg/Kg	135536		11/24/04 1418	tds
	Manganese, Solid*	290			0.12	0.96	1	mg/Kg	135536		11/24/04 1418	tds
	Nickel, Solid*	17			0.24	0.96	1	mg/Kg	135536		11/24/04 1418	tds
	Lead, Solid*	34			0.41	1.4	1	mg/Kg	135536		11/24/04 1418	tds
	Potassium, Solid*	760			13	48	1	mg/Kg	135536		11/24/04 1418	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Elits

Customer Sample ID: LL7ss-022M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:05  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-12  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAHS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.84	B		0.38	1.4	1	mg/Kg	135536		11/24/04 1418	tds
	Silver, Solid*	0.96	U		0.30	0.96	1	mg/Kg	135536		11/24/04 1418	tds
	Sodium, Solid*	280	B		83	290	1	mg/Kg	135536		11/24/04 1418	tds
	Vanadium, Solid*	13			0.20	0.96	1	mg/Kg	135536		11/24/04 1418	tds
	Zinc, Solid*	78			0.38	1.9	1	mg/Kg	135536		11/24/04 1418	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: ERIC ELLIS

Customer Sample ID: LL7ss-022M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 12:05  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-12  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

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	0.20	U		0.055	0.20	1.00000	mg/Kg	135654		11/18/04 1441	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135654		11/18/04 1441	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135654		11/18/04 1441	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135654		11/18/04 1441	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135654		11/18/04 1441	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135654		11/18/04 1441	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135654		11/18/04 1441	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135654		11/18/04 1441	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 1441	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 1441	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	135654		11/18/04 1441	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135654		11/18/04 1441	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 1441	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135654		11/18/04 1441	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-15  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	98.1			0.10	0.10	1	%	134212		11/13/04 1147	daj
	% Solids, Solid				0.10	0.10	1	%	134212		11/13/04 1147	daj
	% Moisture, Solid	1.9										
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	2.0			0.55	1.9	1	mg/Kg	135424		11/23/04 1632	kd

\* In Description = Dry Wgt.



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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

CUSTOMER: MCH Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-15  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.1			0.10	0.10	1	%	134212		11/13/04 1147	daj
	% Moisture, Solid	1.9			0.10	0.10	1	%	134212		11/13/04 1147	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.43	1.4	1	mg/Kg	134864		11/19/04 0413	daj
7841	Thallium (GFAA) Thallium, Solid*	0.58		U	0.18	0.58	1	mg/Kg	134716		11/18/04 0410	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.022			0.0044	0.017	1	mg/Kg	135018		11/18/04 1600	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			2.4	15	1	mg/Kg	135366		11/23/04 1447	tds
	Barium, Solid*	86			0.16	0.98	1	mg/Kg	135030		11/20/04 1538	lmr
	Arsenic, Solid*	14			0.50	1.5	1	mg/Kg	135030		11/20/04 1538	lmr
	Beryllium, Solid*	0.92			0.043	0.39	1	mg/Kg	135030		11/20/04 1538	lmr
	Cadmium, Solid*	0.11		B	0.079	0.25	1	mg/Kg	135030		11/20/04 1538	lmr
	Calcium, Solid*	2900			3.1	9.8	1	mg/Kg	135030		11/20/04 1538	lmr
	Chromium, Solid*	19			0.22	0.98	1	mg/Kg	135030		11/20/04 1538	lmr
	Cobalt, Solid*	10			0.14	0.49	1	mg/Kg	135030		11/20/04 1538	lmr
	Copper, Solid*	16			0.89	3.0	1	mg/Kg	135060		11/22/04 0032	tds
	Iron, Solid*	27000			3.0	9.8	1	mg/Kg	135030		11/20/04 1538	lmr
	Magnesium, Solid*	2300			1.7	9.8	1	mg/Kg	135030		11/20/04 1538	lme
	Manganese, Solid*	610			0.13	0.98	1	mg/Kg	135030		11/20/04 1538	lme
	Nickel, Solid*	20			0.25	0.98	1	mg/Kg	135030		11/20/04 1538	lmr
	Lead, Solid*	19			0.42	1.5	1	mg/Kg	135030		11/20/04 1538	lmr
	Potassium, Solid*	1100			14	49	1	mg/Kg	135060		11/22/04 0032	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877					Date: 11/29/2004							
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-023M-SO Date Sampled.....: 11/09/2004 Time Sampled.....: 15:50 Sample Matrix.....: Soil					Laboratory Sample ID: 231877-15 Date Received.....: 11/11/2004 Time Received.....: 10:00							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.80	B		0.39	1.5	1	mg/Kg	135030		11/20/04 1538	lmr
	Silver, Solid*	0.98	U		0.31	0.98	1	mg/Kg	135030		11/20/04 1538	lmr
	Sodium, Solid*	300	U		85	300	1	mg/Kg	135060		11/22/04 0032	tds
	Vanadium, Solid*	23			0.21	0.98	1	mg/Kg	135030		11/20/04 1538	lmr
	Zinc, Solid*	60			0.39	2.0	1	mg/Kg	135030		11/20/04 1538	lmr

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 12/06/2004						
CUSTOMER: HMK Engineers, Inc.				PROJECT: USACE RVAAP 14 ADDS				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-023M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 15:50 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-15 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.7	U		0.16	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	beta-BHC, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	delta-BHC, 3541 Solid*	1.7	U		0.11	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	gamma-BHC (Lindane), 3541 Solid*	1.7	U		0.22	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Heptachlor, 3541 Solid*	1.7	U	*	0.18	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Aldrin, 3541 Solid*	1.7	U	*	0.13	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Heptachlor epoxide, 3541 Solid*	1.7	U		0.14	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Endosulfan I, 3541 Solid*	1.7	U	*	0.26	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Dieldrin, 3541 Solid*	1.7	U		0.33	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	4,4'-DDE, 3541 Solid*	1.9	U		0.63	1.9	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Endrin, 3541 Solid*	1.7	U		0.42	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Endosulfan II, 3541 Solid*	1.7	U		0.27	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	4,4'-DDD, 3541 Solid*	1.7	U		0.35	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Endosulfan sulfate, 3541 Solid*	1.7	U		0.28	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	4,4'-DDT, 3541 Solid*	1.7	U		0.36	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Methoxychlor, 3541 Solid*	8.1	U		2.2	8.1	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	alpha-Chlordane, 3541 Solid*	1.7	U		0.12	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	gamma-Chlordane, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Endrin aldehyde, 3541 Solid*	1.7	U		0.32	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Endrin ketone, 3541 Solid*	1.7	U		0.28	1.7	1.00000	ug/Kg	136280		11/25/04 0529	kdI
	Toxaphene, 3541 Solid*	16	U		4.5	16	1.00000	ug/Kg	136280		11/25/04 0529	kdI
Method	% Solids Determination											
	% Solids, Solid	98.1			0.10	0.10	1	%	134212		11/13/04 1147	daj
	% Moisture, Solid	1.9			0.10	0.10	1	%	134212		11/13/04 1147	daj

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-023N-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 15:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-15 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	32		U	8.7	32	1.00000	ug/Kg	135913		11/24/04 0722	bjt
	Aroclor 1221, 3541 Solid*	32		U	4.5	32	1.00000	ug/Kg	135913		11/24/04 0722	bjt
	Aroclor 1232, 3541 Solid*	16		U	4.4	16	1.00000	ug/Kg	135913		11/24/04 0722	bjt
	Aroclor 1242, 3541 Solid*	32		U	4.8	32	1.00000	ug/Kg	135913		11/24/04 0722	bjt
	Aroclor 1248, 3541 Solid*	16		U	3.6	16	1.00000	ug/Kg	135913		11/24/04 0722	bjt
	Aroclor 1254, 3541 Solid*	32		U	4.4	32	1.00000	ug/Kg	135913		11/24/04 0722	bjt
	Aroclor 1260, 3541 Solid*	32		U	12	32	1.00000	ug/Kg	135913		11/24/04 0722	bjt
Method	% Solids Determination											
	% Solids, Solid	98.1			0.10	0.10	1	%	134212		11/13/04 1147	daj
	% Moisture, Solid	1.9			0.10	0.10	1	%	134212		11/13/04 1147	daj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231833

Date: 11/22/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAMP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-0230-SO  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231833-7  
 Date Received.....: 11/10/2004  
 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	75.4			0.10	0.10	1	%	134159		11/12/04 1624	gok
	% Moisture, Solid	24.6			0.10	0.10	1	%	134159		11/12/04 1624	gok
8260B	Volatile Organics											
	Chloromethane, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Vinyl chloride, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Bromomethane, Solid*	6.6		U	1.7	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Chloroethane, Solid*	6.6		U	1.3	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,1-Dichloroethene, Solid*	6.6		U	1.7	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Carbon disulfide, Solid*	6.6		U	1.6	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Acetone, Solid*	11		J	6.1	20	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Methylene chloride, Solid*	13		U	3.8	13	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	trans-1,2-Dichloroethene, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,1-Dichloroethane, Solid*	6.6		U	1.3	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	cis-1,2-Dichloroethene, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	2-Butanone (MEK), Solid*	20		U	5.2	20	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Bromochloromethane, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Chloroform, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,1,1-Trichloroethane, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Carbon tetrachloride, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Benzene, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,2-Dichloroethane, Solid*	6.6		U	1.2	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Trichloroethene, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,2-Dichloropropane, Solid*	6.6		U	1.3	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Bromodichloromethane, Solid*	6.6		U	1.3	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
cis-1,3-Dichloropropane, Solid*	6.6		U	1.2	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj	
4-Methyl-2-pentanone (MIBK), Solid*	13		U	1.3	13	1.00000	ug/Kg	133968		11/10/04 2326	jdj	
Toluene, Solid*	6.6		U	1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj	

\* In Description = Dry Wgt.

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Job Number: 231833		LABORATORY TEST RESULTS					Date: 11/22/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RWAMP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-023D-SO			Laboratory Sample ID: 231833-7									
Date Sampled.....: 11/09/2004			Date Received.....: 11/10/2004									
Time Sampled.....: 15:50			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
	trans-1,3-Dichloropropene, Solid*	6.6	U		1.0	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,1,2-Trichloroethane, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Tetrachloroethene, Solid*	6.6	U		1.6	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	2-Hexanone, Solid*	13	U		1.5	13	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Dibromochloromethane, Solid*	6.6	U		1.0	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,2-Dibromoethane (EDB), Solid*	6.6	U		1.1	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Chlorobenzene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Ethylbenzene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	m&p-Xylenes, Solid*	13	U		3.1	13	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	o-Xylene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Styrene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Bromoform, Solid*	6.6	U		0.99	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,1,2,2-Tetrachloroethane, Solid*	6.6	U		1.3	6.6	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	1,2-Dichloroethene (total), Solid*	13	U		2.8	13	1.00000	ug/Kg	133968		11/10/04 2326	jdj
	Xylenes (total), Solid*	13	U		4.5	13	1.00000	ug/Kg	133968		11/10/04 2326	jdj

\* In Description = Dry Wgt.

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Job Number: 231877	LABORATORY TEST RESULTS	Date: 12/02/2004
CUSTOMER: MKM Engineers, Inc.	PROJECT: USACE RVAAP 14 AGCS	ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-15  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	170	U		7.1	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	67	U		8.9	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	170	U		13	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	170	U		15	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	170	U		14	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Benzyl alcohol, 3541 Low Solid*	320	J		74	670	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	67	U		10	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2,2-oxybis (1-chloropropane), 3541 Low So*id	170	U		16	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Soli*	67	U		13	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Hexachloroethane, 3541 Low Solid*	170	U		8.6	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Sol*d	67	U		12	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2-Chlorophenol, 3541 Low Solid*	170	U		13	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Nitrobenzene, 3541 Low Solid*	33	U		8.6	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Soli*	67	U		8.8	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	170	U		14	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Benzoic acid, 3541 Low Solid*	670	U	*	200	670	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Isophorone, 3541 Low Solid*	170	U		20	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	330	U		16	330	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Hexachlorobutadiene, 3541 Low Solid*	170	U		9.0	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Naphthalene, 3541 Low Solid*	33	U		8.4	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	330	U		15	330	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	4-Chloroaniline, 3541 Low Solid*	670	U		54	670	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	170	U		37	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	330	U		45	330	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1000	U		300	1000	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2-Methylnaphthalene, 3541 Low Solid*	33	U		10	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
2-Nitroaniline, 3541 Low Solid*	170	U		11	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk	
2-Chloronaphthalene, 3541 Low Solid*	170	U		16	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk	

\* In Description = Dry Wgt.

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Job Number: 231877 LABORATORY TEST RESULTS Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AGCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-023M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 15:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-15  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	330	U		35	330	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	33	U		9.2	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2-Nitrophenol, 3541 Low Solid*	330	U		15	330	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	3-Nitroaniline, 3541 Low Solid*	670	U		140	670	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Dimethyl phthalate, 3541 Low Solid*	67	U		8.9	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	670	U	*	100	670	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Acenaphthylene, 3541 Low Solid*	33	U		8.3	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	33	U		10	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Acenaphthene, 3541 Low Solid*	33	U		8.3	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Dibenzofuran, 3541 Low Solid*	67	U		8.8	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	4-Nitrophenol, 3541 Low Solid*	670	U		210	670	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Fluorene, 3541 Low Solid*	33	U		9.0	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	4-Nitroaniline, 3541 Low Solid*	670	U		45	670	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	170	U		10	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Hexachlorobenzene, 3541 Low Solid*	33	U		9.5	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Diethyl phthalate, 3541 Low Solid*	67	U		9.5	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Soli*	170	U		9.9	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Pentachlorophenol, 3541 Low Solid*	330	U		110	330	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	33	U		10	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	670	U		170	670	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Phenanthrene, 3541 Low Solid*	18	J		15	50	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Anthracene, 3541 Low Solid*	33	U		11	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Carbazole, 3541 Low Solid*	170	U		12	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	170	U		11	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Fluoranthene, 3541 Low Solid*	36	U		11	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Pyrene, 3541 Low Solid*	27	J		12	50	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	67	U		10	67	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Benzo(a)anthracene, 3541 Low Solid*	17	J		9.9	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Chrysene, 3541 Low Solid*	24	J		10	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk

\* In Description = Dry Wgt.



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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-023M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 15:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-15 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	170	U		15	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	170	U		32	170	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	330	U		10	330	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	60	J	M	8.9	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	24	J		9.4	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Benzo(a)pyrene, 3541 Low Solid*	29	J		9.5	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	11	J		10	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	33	U		9.5	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	22	J		11	33	1.00000	ug/Kg	135942		11/30/04 2059	dpk
Method	% Solids Determination											
	% Solids, Solid	98.1			0.10	0.10	1	%	134212		11/13/04 1147	daj
	% Moisture, Solid	1.9			0.10	0.10	1	%	134212		11/13/04 1147	daj

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-023M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 15:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-15 Date Received.....: 11/11/2004 Time Received.....: 10:00									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/17/04 2016	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/17/04 2016	bdw
8332M	NG/PETN by 8332M (HPLC) Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135466		11/19/04 1449	bdw

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: IR7ss-023M-SO

Trace Level Organic Compounds

Matrix.....: SOLID

Lot-Sample #...: G4K110359-006 Work Order #...: GWRVYX1AA  
Date Sampled...: 11/09/04 15:50 Date Received...: 11/11/04  
Prep Date.....: 11/19/04 Analysis Date...: 11/20/04  
Prep Batch #...: 4322550  
Dilution Factor: 1

Initial Wgt/Vol: 2 g

Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

Client Sample ID: IL7ss-023M-SO

General Chemistry

Lot-Sample #...: G4K110359-006    Work Order #...: GWEVX  
Date Sampled...: 11/09/04 15:50    Date Received...: 11/11/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Nitrocellulose	0.87 B,J	2.0	mg/kg	MCAMW 353.2	ANALYSIS DATE	BATCH #
				Dilution Factor: 1	11/20-11/24/04	4325110
				Initial Wgt/Vol: 10 g		
				MDL.....: 0.57	Final Wgt/Vol...: 40 mL	

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.



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Job Number: 231912		LABORATORY TEST RESULTS					Date: 12/02/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-024M-DUP Date Sampled.....: 11/10/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-17 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	90.6			0.10	0.10	1	%	134235		11/14/04 1951	clb
	% Solids, Solid	9.4			0.10	0.10	1	%	134235		11/14/04 1951	clb
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.97		B	0.057	2.0	1	mg/Kg	135434		11/23/04 1708	kd

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-024M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-16 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	90.5			0.10	0.10	1	%	134235		11/14/04 1948	clb
	% Moisture, Solid	9.5			0.10	0.10	1	%	134235		11/14/04 1948	clb
7041	Antimony (GFAA) Antimony, Solid*	1.4	U		0.44	1.4	1	mg/Kg	135006		11/19/04 1536	daj
7841	Thallium (GFAA) Thallium, Solid*	0.60	U		0.19	0.60	1	mg/Kg	135008		11/19/04 1902	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.049			0.0048	0.018	1	mg/Kg	135664		11/24/04 1514	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	13000			2.6	16	1	mg/Kg	135536		11/24/04 1507	tds
	Barium, Solid*	80			0.17	1.1	1	mg/Kg	135536		11/24/04 1507	tds
	Arsenic, Solid*	13			0.55	1.6	1	mg/Kg	135536		11/24/04 1507	tds
	Beryllium, Solid*	0.81			0.048	0.43	1	mg/Kg	135536		11/24/04 1507	tds
	Cadmium, Solid*	0.27	U		0.087	0.27	1	mg/Kg	135536		11/24/04 1507	tds
	Calcium, Solid*	1700			3.4	11	1	mg/Kg	135536		11/24/04 1507	tds
	Chromium, Solid*	24			0.24	1.1	1	mg/Kg	135536		11/24/04 1507	tds
	Cobalt, Solid*	9.1			0.15	0.54	1	mg/Kg	135536		11/24/04 1507	tds
	Copper, Solid*	14			0.97	3.2	1	mg/Kg	135536		11/24/04 1507	tds
	Iron, Solid*	29000			3.2	11	1	mg/Kg	135536		11/24/04 1507	tds
	Magnesium, Solid*	2400			1.8	11	1	mg/Kg	135536		11/24/04 1507	tds
	Manganese, Solid*	620			0.14	1.1	1	mg/Kg	135536		11/24/04 1507	tds
	Nickel, Solid*	19			0.27	1.1	1	mg/Kg	135536		11/24/04 1507	tds
	Lead, Solid*	20			0.47	1.6	1	mg/Kg	135536		11/24/04 1507	tds
	Potassium, Solid*	1100			15	54	1	mg/Kg	135536		11/24/04 1507	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKN Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-024M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-16 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
	Selenium, Solid*	1.1	B	0.43	1.6	1	mg/Kg	135536		11/24/04 1507	tds	
	Silver, Solid*	1.1	U	0.34	1.1	1	mg/Kg	135536		11/24/04 1507	tds	
	Sodium, Solid*	360		94	320	1	mg/Kg	135536		11/24/04 1507	tds	
	Vanadium, Solid*	27		0.23	1.1	1	mg/Kg	135536		11/24/04 1507	tds	
	Zinc, Solid*	94		0.43	2.2	1	mg/Kg	135536		11/24/04 1507	tds	

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 11/30/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis						
Customer Sample ID: LL7ss-024M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-16 Date Received.....: 11/12/2004 Time Received.....: 09:15										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
8330	Explosives by 8330 (HPLC)												
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135654		11/18/04 1757	san	
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135654		11/18/04 1757	san	
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135654		11/18/04 1757	san	
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135654		11/18/04 1757	san	
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135654		11/18/04 1757	san	
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135654		11/18/04 1757	san	
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135654		11/18/04 1757	san	
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135654		11/18/04 1757	san	
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 1757	san	
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 1757	san	
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135654		11/18/04 1757	san	
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 1757	san	
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135654		11/18/04 1757	san	
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135654		11/18/04 1757	san	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKK Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-024M-DUP  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-17  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDI	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	90.6			0.10	0.10	1	%	134235		11/14/04 1951	clb
	% Moisture, Solid	9.4			0.10	0.10	1	%	134235		11/14/04 1951	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.46	1.5	1	mg/Kg	135006		11/19/04 1600	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63		U	0.20	0.63	1	mg/Kg	135008		11/19/04 1940	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.054			0.0047	0.018	1	mg/Kg	135664		11/24/04 1516	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	13000			2.5	16	1	mg/Kg	135536		11/24/04 1513	tds
	Barium, Solid*	78			0.17	1.0	1	mg/Kg	135536		11/24/04 1513	tds
	Arsenic, Solid*	13			0.53	1.6	1	mg/Kg	135536		11/24/04 1513	tds
	Beryllium, Solid*	0.80			0.046	0.42	1	mg/Kg	135536		11/24/04 1513	tds
	Cadmium, Solid*	0.26		U	0.083	0.26	1	mg/Kg	135536		11/24/04 1513	tds
	Calcium, Solid*	1700			3.2	10	1	mg/Kg	135536		11/24/04 1513	tds
	Chromium, Solid*	24			0.23	1.0	1	mg/Kg	135536		11/24/04 1513	tds
	Cobalt, Solid*	8.4			0.15	0.52	1	mg/Kg	135536		11/24/04 1513	tds
	Copper, Solid*	16			0.94	3.1	1	mg/Kg	135536		11/24/04 1513	tds
	Iron, Solid*	29000			3.1	10	1	mg/Kg	135536		11/24/04 1513	tds
	Magnesium, Solid*	2400			1.8	10	1	mg/Kg	135536		11/24/04 1513	tds
	Manganese, Solid*	530			0.14	1.0	1	mg/Kg	135536		11/24/04 1513	tds
	Nickel, Solid*	19			0.26	1.0	1	mg/Kg	135536		11/24/04 1513	tds
	Lead, Solid*	19			0.45	1.6	1	mg/Kg	135536		11/24/04 1513	tds
Potassium, Solid*	1100			14	52	1	mg/Kg	135536		11/24/04 1513	tds	

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 MOCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-024M-DUP Date Sampled.....: 11/10/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-17 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.2		B	0.42	1.6	1	mg/Kg	135536		11/24/04 1513	tds
	Silver, Solid*	1.0		U	0.32	1.0	1	mg/Kg	135536		11/24/04 1513	tds
	Sodium, Solid*	370			90	310	1	mg/Kg	135536		11/24/04 1513	tds
	Vanadium, Solid*	28			0.22	1.0	1	mg/Kg	135536		11/24/04 1513	tds
	Zinc, Solid*	100			0.42	2.1	1	mg/Kg	135536		11/24/04 1513	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/08/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis						
Customer Sample ID: LL7ss-024M-DUP Date Sampled.....: 11/10/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-17 Date Received.....: 11/12/2004 Time Received.....: 09:15										
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	0.20	U		0.055	0.20	1.00000	mg/Kg	135657		11/20/04 1253	san	
	RDX, Solid	0.20	U		0.061	0.20	1.00000	mg/Kg	135657		11/20/04 1253	san	
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135657		11/20/04 1253	san	
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135657		11/20/04 1253	san	
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135657		11/20/04 1253	san	
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135657		11/20/04 1253	san	
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135657		11/20/04 1253	san	
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135657		11/20/04 1253	san	
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1253	san	
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1253	san	
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.092	0.29	1.00000	mg/Kg	135657		11/20/04 1253	san	
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135657		11/20/04 1253	san	
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135657		11/20/04 1253	san	
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135657		11/20/04 1253	san	

\* In Description = Dry Wgt.

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Job Number: 231912 LABORATORY TEST RESULTS Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-025M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-24  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	94.6			0.10	0.10	1	%	134487		11/16/04 1214	daj
	% Solids, Solid	5.4			0.10	0.10	1	%	134487		11/16/04 1214	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.25		B	0.055	1.9	1	mg/Kg	135434		11/23/04 1711	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-025M-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-24  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	94.6			0.10	0.10	1	%	134487		11/16/04 1214	daj
	% Moisture, Solid	5.4			0.10	0.10	1	%	134487		11/16/04 1214	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.45	1.4	1	mg/Kg	135006		11/19/04 1907	daj
7841	Thallium (GFAA) Thallium, Solid*	0.61		U	0.19	0.61	1	mg/Kg	135008		11/19/04 2259	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.039			0.0045	0.017	1	mg/Kg	135393		11/23/04 1653	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			2.3	14	1	mg/Kg	135536		11/24/04 1721	tds
	Barium, Solid*	67			0.15	0.95	1	mg/Kg	135536		11/24/04 1721	tds
	Arsenic, Solid*	13			0.48	1.4	1	mg/Kg	135536		11/24/04 1721	tds
	Beryllium, Solid*	0.71			0.042	0.38	1	mg/Kg	135536		11/24/04 1721	tds
	Cadmium, Solid*	0.24		U	0.076	0.24	1	mg/Kg	135536		11/24/04 1721	tds
	Calcium, Solid*	1300			2.9	9.5	1	mg/Kg	135536		11/24/04 1721	tds
	Chromium, Solid*	24			0.21	0.95	1	mg/Kg	135536		11/24/04 1721	tds
	Cobalt, Solid*	7.9			0.13	0.47	1	mg/Kg	135536		11/24/04 1721	tds
	Copper, Solid*	13			0.85	2.8	1	mg/Kg	135536		11/24/04 1721	tds
	Iron, Solid*	23000			2.8	9.5	1	mg/Kg	135536		11/24/04 1721	tds
	Magnesium, Solid*	2100			1.6	9.5	1	mg/Kg	135536		11/24/04 1721	tds
	Manganese, Solid*	620			0.12	0.95	1	mg/Kg	135536		11/24/04 1721	tds
	Nickel, Solid*	16			0.24	0.95	1	mg/Kg	135536		11/24/04 1721	tds
	Lead, Solid*	15			0.41	1.4	1	mg/Kg	135536		11/24/04 1721	tds
	Potassium, Solid*	1200			13	47	1	mg/Kg	135536		11/24/04 1721	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date:12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYANP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: 1L7ss-025M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:35 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-24 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.89	B		0.38	1.4	1	mg/Kg	135536		11/24/04 1721	tds
	Silver, Solid*	1.6			0.29	0.95	1	mg/Kg	135536		11/24/04 1721	tds
	Sodium, Solid*	330			82	280	1	mg/Kg	135536		11/24/04 1721	tds
	Vanadium, Solid*	26			0.20	0.95	1	mg/Kg	135536		11/24/04 1721	tds
	Zinc, Solid*	66			0.38	1.9	1	mg/Kg	135536		11/24/04 1721	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 11/30/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ACES				ATTN: Eric Ellis					
Customer Sample ID: LL7as-025M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:35 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-24 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135657		11/20/04 1745	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135657		11/20/04 1745	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	135657		11/20/04 1745	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	135657		11/20/04 1745	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	135657		11/20/04 1745	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	135657		11/20/04 1745	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135657		11/20/04 1745	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	135657		11/20/04 1745	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1745	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1745	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	135657		11/20/04 1745	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135657		11/20/04 1745	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135657		11/20/04 1745	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135657		11/20/04 1745	san
8332M	NG/PETM by 8332M (HPLC)											
	Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135669		11/19/04 2230	san

\* In Description = Dry Wgt.



STL CHICAGO

Client Sample ID: LI7ss-025M-50

Trace Level Organic Compounds

Matrix.....: SOLID

Lot-Sample #....: G4K120333-004    Work Order #....: GWW781AA  
Date Sampled....: 11/10/04 09:35    Date Received..: 11/12/04  
Prep Date.....: 11/19/04    Analysis Date...: 11/21/04  
Prep Batch #....: 4322550  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: IL7SS-025M-SO

General Chemistry

Matrix.....: SOLID

Lot-Sample #....: G4K120333-004      Work Order #....: GMM78  
Date Sampled....: 11/10/04 09:35      Date Received...: 11/12/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREP
Nitrocellulose	0.89 B,J	2.0	mg/kg	MCAMM 353.2	ANALYSIS DATE BATCH #
			Dilution Factor: 1	Initial Wgt/Vol: 10 g	11/20-11/24/04 4325110
			MDL.....: 0.57		Final Wgt/Vol...: 40 mL

**NOTE(S) :**

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-026M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 09:10 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-7 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	D	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	97.2			0.10	0.10	1	%	134235		11/14/04 1922	clb
	% Solids, Solid				0.10	0.10	1	%	134235		11/14/04 1922	clb
	% Moisture, Solid	2.8										
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)											
	Nitrate as N (NO3-N), Solid*	0.72	8		0.57	2.0	1	mg/Kg	135424		11/23/04 1639	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-026M-50  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-7  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	97.2		0.10	0.10	1	%	134235		11/14/04 1922	clb
	% Moisture, Solid	2.8		0.10	0.10	1	%	134235		11/14/04 1922	clb
7041	Antimony (GFAA) Antimony, Solid*	1.3	U	0.41	1.3	1	mg/Kg	135006		11/19/04 1233	daj
7841	Thallium (GFAA) Thallium, Solid*	0.57	U	0.18	0.57	1	mg/Kg	135008		11/19/04 1324	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.051		0.0044	0.017	1	mg/Kg	135664		11/24/04 1445	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	11000		2.5	15	1	mg/Kg	135536		11/24/04 1258	tds
	Barium, Solid*	100		0.16	1.0	1	mg/Kg	135536		11/24/04 1258	tds
	Arsenic, Solid*	13		0.52	1.5	1	mg/Kg	135536		11/24/04 1258	tds
	Beryllium, Solid*	0.90		0.045	0.41	1	mg/Kg	135536		11/24/04 1258	tds
	Cadmium, Solid*	0.26	U	0.082	0.26	1	mg/Kg	135536		11/24/04 1258	tds
	Calcium, Solid*	1700		3.2	10	1	mg/Kg	135536		11/24/04 1258	tds
	Chromium, Solid*	19		0.22	1.0	1	mg/Kg	135536		11/24/04 1258	tds
	Cobalt, Solid*	9.6		0.14	0.51	1	mg/Kg	135536		11/24/04 1258	tds
	Copper, Solid*	9.4		0.92	3.1	1	mg/Kg	135536		11/24/04 1258	tds
	Iron, Solid*	25000		3.1	10	1	mg/Kg	135536		11/24/04 1258	tds
	Magnesium, Solid*	1700		1.7	10	1	mg/Kg	135536		11/24/04 1258	tds
	Manganese, Solid*	1100		0.13	1.0	1	mg/Kg	135536		11/24/04 1258	tds
	Nickel, Solid*	14		0.26	1.0	1	mg/Kg	135536		11/24/04 1258	tds
	Lead, Solid*	20		0.44	1.5	1	mg/Kg	135536		11/24/04 1258	tds
	Potassium, Solid*	910		14	51	1	mg/Kg	135536		11/24/04 1258	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231912				Date: 12/01/2004								
CUSTOMER: NCK Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCS				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-026M-SD Date Sampled.....: 11/10/2004 Time Sampled.....: 09:10 Sample Matrix.....: Soil						Laboratory Sample ID: 231912-7 Date Received.....: 11/12/2004 Time Received.....: 09:15						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.82		B	0.41	1.5	1	mg/Kg	135536		11/24/04 1258	tds
	Silver, Solid*	1.0		U	0.32	1.0	1	mg/Kg	135536		11/24/04 1258	tds
	Sodium, Solid*	310			89	310	1	mg/Kg	135536		11/24/04 1258	tds
	Vanadium, Solid*	25			0.21	1.0	1	mg/Kg	135536		11/24/04 1258	tds
	Zinc, Solid*	56			0.41	2.0	1	mg/Kg	135536		11/24/04 1258	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: HKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-026M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 09:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-7  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

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	0.20	U		0.056	0.20	1.00000	mg/Kg	135654		11/18/04 0948	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135654		11/18/04 0948	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135654		11/18/04 0948	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	135654		11/18/04 0948	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135654		11/18/04 0948	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135654		11/18/04 0948	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135654		11/18/04 0948	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135654		11/18/04 0948	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135654		11/18/04 0948	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135654		11/18/04 0948	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135654		11/18/04 0948	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135654		11/18/04 0948	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135654		11/18/04 0948	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135654		11/18/04 0948	san

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-027M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 14:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-18 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
Method	% Solids Determination	89.8		0.10	0.10	1	%	134235		11/14/04 1953	clb	
	% Solids, Solid	10.2		0.10	0.10	1	%	134235		11/14/04 1953	clb	
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.92	B	0.058	2.0	1	mg/Kg	135434		11/23/04 1709	kd	

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/01/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-027M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-18  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	89.8			0.10	0.10	1	%	134235		11/14/04 1953	clb
	% Moisture, Solid	10.2			0.10	0.10	1	%	134235		11/14/04 1953	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.48	1.5	1	mg/Kg	135006		11/19/04 1612	daJ
7841	Thallium (GFAA) Thallium, Solid*	0.27		B	0.21	0.65	1	mg/Kg	135008		11/19/04 2029	daJ
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.072			0.0048	0.018	1	mg/Kg	135664		11/24/04 1518	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8700			2.5	15	1	mg/Kg	135536		11/24/04 1519	tds
	Barium, Solid*	66			0.16	1.0	1	mg/Kg	135536		11/24/04 1519	tds
	Arsenic, Solid*	11			0.52	1.5	1	mg/Kg	135536		11/24/04 1519	tds
	Beryllium, Solid*	0.79			0.045	0.41	1	mg/Kg	135536		11/24/04 1519	tds
	Cadmium, Solid*	0.26		U	0.082	0.26	1	mg/Kg	135536		11/24/04 1519	tds
	Calcium, Solid*	3800			3.2	10	1	mg/Kg	135536		11/24/04 1519	tds
	Chromium, Solid*	27			0.23	1.0	1	mg/Kg	135536		11/24/04 1519	tds
	Cobalt, Solid*	7.8			0.14	0.51	1	mg/Kg	135536		11/24/04 1519	tds
	Copper, Solid*	19			0.92	3.1	1	mg/Kg	135536		11/24/04 1519	tds
	Iron, Solid*	22000			3.1	10	1	mg/Kg	135536		11/24/04 1519	tds
	Magnesium, Solid*	2400			1.7	10	1	mg/Kg	135536		11/24/04 1519	tds
	Manganese, Solid*	360			0.13	1.0	1	mg/Kg	135536		11/24/04 1519	tds
	Nickel, Solid*	23			0.26	1.0	1	mg/Kg	135536		11/24/04 1519	tds
	Lead, Solid*	21			0.44	1.5	1	mg/Kg	135536		11/24/04 1519	tds
	Potassium, Solid*	910			14	51	1	mg/Kg	135536		11/24/04 1519	tds

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date:12/01/2004				
CUSTOMER: HKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-027M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 14:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-18 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.82	B		0.41	1.5	1	mg/Kg	135536		11/24/04 1519	tds
	Silver, Solid*	80			0.32	1.0	1	mg/Kg	135536		11/24/04 1519	tds
	Sodium, Solid*	310			89	310	1	mg/Kg	135536		11/24/04 1519	tds
	Vanadium, Solid*	16			0.22	1.0	1	mg/Kg	135536		11/24/04 1519	tds
	Zinc, Solid*	70			0.41	2.1	1	mg/Kg	135536		11/24/04 1519	tds

\* In Description = Dry Wgt.

## LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: KKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-027M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 14:00  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-18  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

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	0.20	U		0.055	0.20	1.00000	mg/Kg	135657		11/20/04 1325	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	135657		11/20/04 1325	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	135657		11/20/04 1325	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135657		11/20/04 1325	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	135657		11/20/04 1325	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	135657		11/20/04 1325	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	135657		11/20/04 1325	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	135657		11/20/04 1325	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1325	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	135657		11/20/04 1325	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	135657		11/20/04 1325	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	135657		11/20/04 1325	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135657		11/20/04 1325	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	135657		11/20/04 1325	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-028M-S0 Laboratory Sample ID: 231877-14  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 10:00 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FEAS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	93.2			0.10	0.10	1	%	134212		11/13/04 1145	daj
	% Solids, Solid	6.8			0.10	0.10	1	%	134212		11/13/04 1145	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.8	B		0.58	2.0	1	mg/Kg	135424		11/23/04 1631	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877						Date: 11/29/2004						
CUSTOMER: NKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis					
Customer Sample ID: LL7ss-028M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-14 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	93.2			0.10	0.10	1	%	134212		11/13/04 1145	daj
	% Solids, Solid	6.8			0.10	0.10	1	%	134212		11/13/04 1145	daj
	% Moisture, Solid											
7041	Antimony (GFAA) Antimony, Solid*	0.53		B	0.46	1.5	1	mg/Kg	134864		11/19/04 0401	daj
7841	Thallium (GFAA) Thallium, Solid*	0.25		B	0.20	0.63	1	mg/Kg	134716		11/18/04 0345	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.020			0.0046	0.018	1	mg/Kg	135018		11/18/04 1558	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9100			2.5	16	1	mg/Kg	135060		11/21/04 2327	tds
	Barium, Solid*	87			0.17	1.0	1	mg/Kg	135030		11/20/04 1532	lmr
	Arsenic, Solid*	9.0			0.53	1.6	1	mg/Kg	135030		11/20/04 1532	lmr
	Beryllium, Solid*	1.7			0.046	0.41	1	mg/Kg	135030		11/20/04 1532	lmr
	Cadmium, Solid*	0.47			0.083	0.26	1	mg/Kg	135030		11/20/04 1532	lmr
	Calcium, Solid*	9300			3.2	10	1	mg/Kg	135030		11/20/04 1532	lmr
	Chromium, Solid*	17			0.23	1.0	1	mg/Kg	135030		11/20/04 1532	lmr
	Cobalt, Solid*	6.2			0.14	0.52	1	mg/Kg	135030		11/20/04 1532	lmr
	Copper, Solid*	13			0.93	3.1	1	mg/Kg	135060		11/21/04 2327	tds
	Iron, Solid*	15000			3.1	10	1	mg/Kg	135030		11/20/04 1532	lmr
	Magnesium, Solid*	3200			1.8	10	1	mg/Kg	135030		11/20/04 1532	lmr
	Manganese, Solid*	750			0.13	1.0	1	mg/Kg	135030		11/20/04 1532	lmr
	Nickel, Solid*	21			0.26	1.0	1	mg/Kg	135030		11/20/04 1532	lmr
	Lead, Solid*	18			0.44	1.6	1	mg/Kg	135030		11/20/04 1532	lmr
	Potassium, Solid*	720			14	52	1	mg/Kg	135060		11/21/04 2327	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877								Date: 11/29/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 ADES				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-028N-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil				Laboratory Sample ID: 231877-14 Date Received.....: 11/11/2004 Time Received.....: 10:00								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.80	B		0.41	1.6	1	mg/Kg	135030		11/20/04 1532	lmr
	Silver, Solid*	1.0	U		0.32	1.0	1	mg/Kg	135030		11/20/04 1532	lmr
	Sodium, Solid*	310	U		90	310	1	mg/Kg	135060		11/21/04 2327	tds
	Vanadium, Solid*	11			0.22	1.0	1	mg/Kg	135030		11/20/04 1532	lmr
	Zinc, Solid*	85			0.41	2.1	1	mg/Kg	135030		11/20/04 1532	lmr

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-028M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:00 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-14 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	MMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/17/04 1943	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/17/04 1943	bdw
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135466		11/19/04 1414	bdw

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LL7ss-028M-SO

Trace Level Organic Compounds

Matrix.....: SOLID

Lot-Sample #....: G4K110359-007    Work Order #....: GMRV31AA  
Date Sampled....: 11/09/04 10:00    Date Received..: 11/11/04  
Prep Date.....: 11/19/04    Analysis Date..: 11/20/04  
Prep Batch #....: 4322550  
Dilution Factor: 1

Initial Wgt/Vol: 2 g

Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

Client Sample ID: LL755-028M-SO

General Chemistry

Matrix.....: SOLID

Lot-Sample #....: G4K110359-007      Work Order #....: GMRV3  
Date Sampled....: 11/09/04 10:00      Date Received...: 11/11/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Nitrocellulose	1.4 B, J	2.0	mg/kg	MCAMM 353.2	11/20-11/24/04	4325110
				Dilution Factor: 1		Final Wgt/Vol...: 40 mL
				MDL.....: 0.57		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.



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Job Number: 231877		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-030M-SD Date Sampled.....: 11/09/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-22 Date Received.....: 11/11/2004 Time Received.....: 10:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	96.3			0.10	0.10	1	%	133996		11/11/04 1335	daj
	% Solids, Solid	3.7			0.10	0.10	1	%	133996		11/11/04 1335	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	2.0		U	0.56	2.0	1	mg/Kg	135424		11/23/04 1632	kd

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/29/2004				
CUSTOMER: NKM Engineers, Inc.		PROJECT: USAGE RYAAP 14 AOCs				ATTN: Eric Ellis						
Customer Sample ID: LL7ss-030M-SO		Laboratory Sample ID: 231877-22										
Date Sampled.....: 11/09/2004		Date Received.....: 11/11/2004										
Time Sampled.....: 10:30		Time Received.....: 10:00										
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	96.3			0.10	0.10	1	%	133996		11/11/04 1335	daj
	% Solids, Solid	3.7			0.10	0.10	1	%	133996		11/11/04 1335	daj
7041	Antimony (GFAA) Antimony, Solid*	0.48		B	0.40	1.3	1	mg/Kg	134864		11/18/04 2124	daj
7841	Thallium (GFAA) Thallium, Solid*	0.54		U	0.17	0.54	1	mg/Kg	134716		11/17/04 2128	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.028			0.0045	0.017	1	mg/Kg	135018		11/18/04 1621	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.4	15	1	mg/Kg	135366		11/23/04 1651	tds
	Barium, Solid*	52			0.15	0.92	1	mg/Kg	135030		11/20/04 1700	lmr
	Arsenic, Solid*	12			0.47	1.4	1	mg/Kg	135030		11/20/04 1700	lmr
	Beryllium, Solid*	0.59			0.041	0.37	1	mg/Kg	135030		11/20/04 1700	lmr
	Cadmium, Solid*	0.18		B	0.074	0.23	1	mg/Kg	135030		11/20/04 1700	lmr
	Calcium, Solid*	5200			2.9	9.2	1	mg/Kg	135030		11/20/04 1700	lmr
	Chromium, Solid*	16			0.20	0.92	1	mg/Kg	135030		11/20/04 1700	lmr
	Cobalt, Solid*	7.0			0.13	0.46	1	mg/Kg	135030		11/20/04 1700	lmr
	Copper, Solid*	16			0.90	3.0	1	mg/Kg	135366		11/23/04 1651	tds
	Iron, Solid*	18000			2.8	9.2	1	mg/Kg	135030		11/20/04 1700	lmr
	Magnesium, Solid*	2000			1.6	9.2	1	mg/Kg	135030		11/20/04 1700	lmr
	Manganese, Solid*	390			0.12	0.92	1	mg/Kg	135030		11/20/04 1700	lmr
	Nickel, Solid*	15			0.23	0.92	1	mg/Kg	135030		11/20/04 1700	lmr
	Lead, Solid*	19			0.40	1.4	1	mg/Kg	135030		11/20/04 1700	lmr
	Potassium, Solid*	1100			14	50	1	mg/Kg	135366		11/23/04 1651	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231877 Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-030M-S0  
 Date Sampled.....: 11/09/2004  
 Time Sampled.....: 10:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231877-22  
 Date Received.....: 11/11/2004  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.51	B		0.40	1.5	1	mg/Kg	135366		11/23/04 1651	tds
	Silver, Solid*	0.92	U		0.29	0.92	1	mg/Kg	135030		11/20/04 1700	lmr
	Sodium, Solid*	320			87	300	1	mg/Kg	135366		11/23/04 1651	tds
	Vanadium, Solid*	16			0.19	0.92	1	mg/Kg	135030		11/20/04 1700	lmr
	Zinc, Solid*	55			0.37	1.8	1	mg/Kg	135030		11/20/04 1700	lmr

\* In Description = Dry Wgt.

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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 1% ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-030M-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231877-22 Date Received.....: 11/11/2004 Time Received.....: 10:00									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135440		11/18/04 0108	bdw
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135440		11/18/04 0108	bdw
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135466		11/19/04 1600	bdw

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LL7ss-030M-SO

Trace Level Organic Compounds

Lot-Sample #...: G4K110359-005    Work Order #...: GMRVRL1AA    Matrix.....: SOLID  
Date Sampled...: 11/09/04 10:30    Date Received..: 11/11/04  
Prep Date.....: 11/19/04    Analysis Date..: 11/20/04  
Prep Batch #...: 4322550  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

Client Sample ID: IL7SS-030M-SO

General Chemistry

Lot-Sample #...: G4K110359-005      Work Order #...: GWRVR  
Date Sampled...: 11/09/04 10:30      Date Received...: 11/11/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Nitrocellulose	0.99 B,J	2.0	mg/kg	MCAWM 353.2	ANALYSIS DATE	BATCH #
			Dilution Factor: 1	Initial Wgt/Vol: 10 g	11/20-11/24/04	4325110
			MDL.....: 0.57		Final Wgt/Vol...: 40 mL	

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS												
Job Number: 231877					Date: 12/02/2004							
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOES				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-031M-SO Date Sampled.....: 11/09/2004 Time Sampled.....: 10:55 Sample Matrix.....: Soil					Laboratory Sample ID: 231877-3 Date Received.....: 11/11/2004 Time Received.....: 10:00							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	93.4			0.10	0.10	1	%	134212		11/13/04 1119	daj
	% Solids, Solid				0.10	0.10	1	%	134212		11/13/04 1119	daj
	% Moisture, Solid	6.6										
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	2.4			0.59	2.1	1	mg/Kg	135424		11/23/04 1624	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877				Date: 11/29/2004								
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Eitte				
Customer Sample ID: LL7ss-031A-S0 Date Sampled.....: 11/09/2004 Time Sampled.....: 10:55 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-3 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	93.4			0.10	0.10	1	%	134212		11/13/04 1119	daj
	% Moisture, Solid	6.6			0.10	0.10	1	%	134212		11/13/04 1119	daj
7041	Antimony (GFAA) Antimony, Solid*	0.60		B	0.44	1.4	1	mg/Kg	134864		11/19/04 0033	daj
7841	Thallium (GFAA) Thallium, Solid*	0.61		U	0.19	0.61	1	mg/Kg	134716		11/18/04 0025	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.043			0.0046	0.018	1	mg/Kg	135018		11/18/04 1524	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9300			2.5	16	1	mg/Kg	135060		11/21/04 2130	tds
	Barium, Solid*	66			0.17	1.1	1	mg/Kg	135030		11/20/04 1231	lmr
	Arsenic, Solid*	14			0.54	1.6	1	mg/Kg	135030		11/20/04 1231	lmr
	Beryllium, Solid*	0.70			0.046	0.42	1	mg/Kg	135030		11/20/04 1231	lmr
	Cadmium, Solid*	0.19		B	0.084	0.26	1	mg/Kg	135030		11/20/04 1231	lmr
	Calcium, Solid*	2000			3.3	11	1	mg/Kg	135030		11/20/04 1231	lmr
	Chromium, Solid*	17			0.23	1.1	1	mg/Kg	135030		11/20/04 1231	lmr
	Cobalt, Solid*	7.7			0.15	0.53	1	mg/Kg	135030		11/20/04 1231	lmr
	Copper, Solid*	13			0.95	3.2	1	mg/Kg	135060		11/21/04 2130	tds
	Iron, Solid*	22000			3.2	11	1	mg/Kg	135030		11/20/04 1231	lmr
	Magnesium, Solid*	1900			1.8	11	1	mg/Kg	135030		11/20/04 1231	lmr
	Manganese, Solid*	630			0.14	1.1	1	mg/Kg	135030		11/20/04 1231	lmr
	Nickel, Solid*	16			0.26	1.1	1	mg/Kg	135030		11/20/04 1231	lmr
	Lead, Solid*	20			0.45	1.6	1	mg/Kg	135030		11/20/04 1231	lmr
	Potassium, Solid*	760			15	53	1	mg/Kg	135060		11/21/04 2130	tds

\* In Description = Dry Wgt.



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**LABORATORY TEST RESULTS**

Job Number: 231877 Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-031M-S0 Laboratory Sample ID: 231877-3  
 Date Sampled.....: 11/09/2004 Date Received.....: 11/11/2004  
 Time Sampled.....: 10:55 Time Received.....: 10:00  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.88		B	0.42	1.6	1	mg/Kg	135030		11/20/04 1231	lmr
	Silver, Solid*	1.1		U	0.33	1.1	1	mg/Kg	135030		11/20/04 1231	lmr
	Sodium, Solid*	320		U	91	320	1	mg/Kg	135060		11/21/04 2130	tds
	Vanadium, Solid*	20			0.22	1.1	1	mg/Kg	135030		11/20/04 1231	lmr
	Zinc, Solid*	81			0.42	2.1	1	mg/Kg	135030		11/20/04 1231	lmr

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS											
Job Number: 231877								Date: 11/24/2004			
CUSTOMER: NKM Engineers, Inc.				PROJECT: USAGE RVAAP 14 AOCs				ATTN: Eric Ellis			
Customer Sample ID: LL7ss-031M-SO Date Sampled.....: 11/09/2004 Time Sampled.....: 10:55 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-3 Date Received.....: 11/11/2004 Time Received.....: 10:00					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)										
	MMX, Solid	0.20	U	0.056	0.20	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	RDX, Solid	0.20	U	0.063	0.20	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U	0.033	0.10	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	1,3-Dinitrobenzene, Solid	0.10	U	0.024	0.10	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	Nitrobenzene, Solid	0.10	U	0.021	0.10	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	2,4,6-TNT, Solid	0.10	U	0.024	0.10	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	Tetryl, Solid	0.40	U	0.12	0.40	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	2,4-Dinitrotoluene, Solid	0.10	U	0.026	0.10	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	2,6-Dinitrotoluene, Solid	0.20	U	0.049	0.20	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U	0.046	0.20	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U	0.094	0.30	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	2-Nitrotoluene, Solid	0.20	U	0.048	0.20	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	4-Nitrotoluene, Solid	0.20	U	0.050	0.20	1.00000	mg/Kg	135429		11/17/04 0534	bdw
	3-Nitrotoluene, Solid	0.20	U	0.053	0.20	1.00000	mg/Kg	135429		11/17/04 0534	bdw

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-032M-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 08:55 Sample Matrix.....: Soil			Laboratory Sample ID: 231912-21 Date Received.....: 11/12/2004 Time Received.....: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.0			0.10	0.10	1	%	134487		11/16/04 1203	daj
	% Moisture, Solid	2.0			0.10	0.10	1	%	134487		11/16/04 1203	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.3		B	0.055	1.9	1	mg/Kg	135434		11/23/04 1710	kd

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADES				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-032M-S0 Date Sampled: 11/10/2004 Time Sampled: 08:55 Sample Matrix: Soil			Laboratory Sample ID: 231912-21 Date Received: 11/12/2004 Time Received: 09:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.0			0.10	0.10	1	%	134487		11/16/04 1203	daj
	% Moisture, Solid	2.0			0.10	0.10	1	%	134487		11/16/04 1203	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.44	1.4	1	mg/Kg	135006		11/19/04 1755	daj
7841	Thallium (GFAA) Thallium, Solid*	0.59		U	0.19	0.59	1	mg/Kg	135008		11/19/04 2144	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.040			0.0044	0.017	1	mg/Kg	135393		11/23/04 1647	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	14000			2.3	14	1	mg/Kg	135536		11/24/04 1637	tds
	Barium, Solid*	83			0.15	0.94	1	mg/Kg	135536		11/24/04 1637	tds
	Arsenic, Solid*	12			0.48	1.4	1	mg/Kg	135536		11/24/04 1637	tds
	Beryllium, Solid*	0.88			0.041	0.38	1	mg/Kg	135536		11/24/04 1637	tds
	Cadmium, Solid*	0.11		B	0.075	0.23	1	mg/Kg	135536		11/24/04 1637	tds
	Calcium, Solid*	3400			2.9	9.4	1	mg/Kg	135536		11/24/04 1637	tds
	Chromium, Solid*	25			0.21	0.94	1	mg/Kg	135536		11/24/04 1637	tds
	Cobalt, Solid*	13			0.13	0.47	1	mg/Kg	135536		11/24/04 1637	tds
	Copper, Solid*	20			0.84	2.8	1	mg/Kg	135536		11/24/04 1637	tds
	Iron, Solid*	25000			2.8	9.4	1	mg/Kg	135536		11/24/04 1637	tds
	Magnesium, Solid*	3400			1.6	9.4	1	mg/Kg	135536		11/24/04 1637	tds
	Manganese, Solid*	550			0.12	0.94	1	mg/Kg	135536		11/24/04 1637	tds
	Nickel, Solid*	25			0.23	0.94	1	mg/Kg	135536		11/24/04 1637	tds
	Lead, Solid*	20			0.40	1.4	1	mg/Kg	135536		11/24/04 1637	tds
Potassium, Solid*	1800			13	47	1	mg/Kg	135536		11/24/04 1637	tds	

\* In Description = Dry Wgt.

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Job Number: 231912		LABORATORY TEST RESULTS						Date: 12/01/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP IA AOGS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-032M-SD			Laboratory Sample ID: 231912-21									
Date Sampled.....: 11/10/2004			Date Received.....: 11/12/2004									
Time Sampled.....: 08:55			Time Received.....: 09:15									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.82	B		0.38	1.4	1	mg/Kg	135536		11/24/04 1637	tds
	Silver, Solid*	0.94	U		0.29	0.94	1	mg/Kg	135536		11/24/04 1637	tds
	Sodium, Solid*	380			81	280	1	mg/Kg	135536		11/24/04 1637	tds
	Vanadium, Solid*	25			0.20	0.94	1	mg/Kg	135536		11/24/04 1637	tds
	Zinc, Solid*	110			0.38	1.9	1	mg/Kg	135536		11/24/04 1637	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-032M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 08:55  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-21  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.7	U		0.16	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	beta-BHC, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	delta-BHC, 3541 Solid*	1.7	U		0.11	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	gamma-BHC (Lindane), 3541 Solid*	1.7	U		0.23	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Heptachlor, 3541 Solid*	1.7	U	*	0.18	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Aldrin, 3541 Solid*	1.7	U	*	0.13	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Heptachlor epoxide, 3541 Solid*	1.7	U	*	0.14	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Endosulfan I, 3541 Solid*	1.7	U	*	0.27	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Dieldrin, 3541 Solid*	1.7	U		0.34	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	4,4'-DDE, 3541 Solid*	2.0	U		0.65	2.0	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Endrin, 3541 Solid*	1.7	U		0.43	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Endosulfan II, 3541 Solid*	1.7	U		0.28	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	4,4'-DDD, 3541 Solid*	1.7	U		0.36	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Endosulfan sulfate, 3541 Solid*	1.7	U		0.29	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	4,4'-DDT, 3541 Solid*	1.7	U		0.37	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Methoxychlor, 3541 Solid*	8.3	U		2.3	8.3	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	alpha-Chlordane, 3541 Solid*	1.7	U		0.12	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	gamma-Chlordane, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Endrin aldehyde, 3541 Solid*	1.7	U		0.33	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Endrin ketone, 3541 Solid*	1.7	U		0.29	1.7	1.00000	ug/Kg	136409		11/25/04 0554	kdL
	Toxaphene, 3541 Solid*	17	U		4.6	17	1.00000	ug/Kg	136409		11/25/04 0554	kdL
Method	% Solids Determination											
	% Solids, Solid	98.0			0.10	0.10	1	%	134487		11/16/04 1203	daj
	% Moisture, Solid	2.0			0.10	0.10	1	%	134487		11/16/04 1203	daj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912 Date: 12/02/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-032M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 08:55  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-21  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	33	U		8.9	33	1.00000	ug/Kg	135913		11/24/04 0758	bjt
	Aroclor 1221, 3541 Solid*	33	U		4.6	33	1.00000	ug/Kg	135913		11/24/04 0758	bjt
	Aroclor 1232, 3541 Solid*	17	U		4.5	17	1.00000	ug/Kg	135913		11/24/04 0758	bjt
	Aroclor 1242, 3541 Solid*	33	U		4.9	33	1.00000	ug/Kg	135913		11/24/04 0758	bjt
	Aroclor 1248, 3541 Solid*	17	U		3.7	17	1.00000	ug/Kg	135913		11/24/04 0758	bjt
	Aroclor 1254, 3541 Solid*	33	U		4.5	33	1.00000	ug/Kg	135913		11/24/04 0758	bjt
	Aroclor 1260, 3541 Solid*	33	U		13	33	1.00000	ug/Kg	135913		11/24/04 0758	bjt
Method	% Solids Determination											
	% Solids, Solid	98.0			0.10	0.10	1	%	134487		11/16/04 1203	daj
	% Moisture, Solid	2.0			0.10	0.10	1	%	134487		11/16/04 1203	daj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231877				Date: 11/20/2004								
CUSTOMER: MKM Engineers, Inc.				PROJECT: USAGE RYAAP 14 ADES				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-032D-S0 Date Sampled.....: 11/10/2004 Time Sampled.....: 08:55 Sample Matrix.....: Soil						Laboratory Sample ID: 231877-1 Date Received.....: 11/11/2004 Time Received.....: 10:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	69.4		H	0.10	0.10	1	%	134212		11/13/04 1117	daj
	% Moisture, Solid	30.6			0.10	0.10	1	%	134212		11/13/04 1117	daj
B2608	Volatile Organics											
	Chloromethane, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Vinyl chloride, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Bromomethane, Solid*	7.2		U	1.9	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Chloroethane, Solid*	7.2		U	1.4	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,1-Dichloroethene, Solid*	7.2		U	1.9	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Carbon disulfide, Solid*	7.2		U	1.7	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Acetone, Solid*	22		U	6.6	22	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Methylene chloride, Solid*	14		U	4.2	14	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	trans-1,2-Dichloroethene, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,1-Dichloroethane, Solid*	7.2		U	1.4	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	cis-1,2-Dichloroethene, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	2-Butanone (MEK), Solid*	22		U	5.6	22	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Bromochloromethane, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Chloroform, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,1,1-Trichloroethane, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Carbon tetrachloride, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Benzene, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,2-Dichloroethane, Solid*	7.2		U	1.4	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Trichloroethene, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,2-Dichloropropane, Solid*	7.2		U	1.4	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Bromodichloromethane, Solid*	7.2		U	1.4	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	cis-1,3-Dichloropropene, Solid*	7.2		U	1.3	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	4-Methyl-2-pentanone (MIBK), Solid*	14		U	1.4	14	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Toluene, Solid*	7.2		U	1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj

*DATA  
TRANSFER  
SAMPLES EDS  
Su W/30/04*

\* In Description = Dry Wgt.



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Job Number: 231877		LABORATORY TEST RESULTS						Date: 11/20/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RMAAP 14 ADCS				ATTN: Eric Elletts					
Customer Sample ID: LL7ss-0320-S0			Laboratory Sample ID: 231877-1									
Date Sampled.....: 11/10/2004			Date Received.....: 11/11/2004									
Time Sampled.....: 08:55			Time Received.....: 10:00									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	trans-1,3-Dichloropropene, Solid*	7.2	U		1.1	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,1,2-Trichloroethane, Solid*	7.2	U		1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Tetrachloroethene, Solid*	7.2	U		1.7	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	2-Hexanone, Solid*	14	U		1.6	14	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Dibromochloromethane, Solid*	7.2	U		1.1	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,2-Dibromoethane (EDB), Solid*	7.2	U		1.2	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Chlorobenzene, Solid*	7.2	U		1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Ethylbenzene, Solid*	7.2	U		1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	m&p-Xylenes, Solid*	14	U		3.3	14	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	o-Xylene, Solid*	7.2	U		1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Styrene, Solid*	7.2	U		1.6	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Bromoform, Solid*	7.2	U		1.1	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,1,2,2-Tetrachloroethane, Solid*	7.2	U		1.4	7.2	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	1,2-Dichloroethene (total), Solid*	14	U		3.0	14	1.00000	ug/Kg	134342		11/12/04 1648	jdj
	Xylenes (total), Solid*	14	U		4.9	14	1.00000	ug/Kg	134342		11/12/04 1648	jdj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 MOCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-032M-SD  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 08:55  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-21  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BAYGH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	160	U		7.0	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	66	U		8.8	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	160	U		13	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	160	U		15	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	160	U		14	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Benzyl alcohol, 3541 Low Solid*	770	U		73	660	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	66	U		10	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Sol*id	160	U		16	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Soli*	66	U		13	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Hexachloroethane, 3541 Low Solid*	160	U		8.5	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Sol*d	66	U		12	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2-Chlorophenol, 3541 Low Solid*	160	U		13	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Nitrobenzene, 3541 Low Solid*	32	U		8.5	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Soli*	66	U		8.7	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	160	U		13	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Benzoic acid, 3541 Low Solid*	660	U	*	190	660	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Isophorone, 3541 Low Solid*	160	U		19	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	320	U		16	320	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Hexachlorobutadiene, 3541 Low Solid*	160	U		8.9	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Naphthalene, 3541 Low Solid*	32	U		8.3	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	320	U		15	320	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	4-Chloroaniline, 3541 Low Solid*	660	U		53	660	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	160	U		37	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	320	U		44	320	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	980	U		300	980	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2-Methylnaphthalene, 3541 Low Solid*	32	U		9.8	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2-Nitroaniline, 3541 Low Solid*	160	U		11	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2-Chloronaphthalene, 3541 Low Solid*	160	U		15	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231912

Date: 12/07/2004

CUSTOMER: HOK Engineers, Inc.

PROJECT: USACE RYAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-032M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 08:55  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-21  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QI FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	320	U	34	320	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	32	U	9.1	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2-Nitrophenol, 3541 Low Solid*	320	U	14	320	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	3-Nitroaniline, 3541 Low Solid*	660	U	140	660	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Dimethyl phthalate, 3541 Low Solid*	66	U	8.8	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	660	U	100	660	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Acenaphthylene, 3541 Low Solid*	32	U	8.2	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	32	U	10	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Acenaphthene, 3541 Low Solid*	32	U	8.2	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Dibenzofuran, 3541 Low Solid*	66	U	8.7	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	4-Nitrophenol, 3541 Low Solid*	660	U	210	660	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Fluorene, 3541 Low Solid*	32	U	8.9	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	4-Nitroaniline, 3541 Low Solid*	660	U	44	660	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	160	U	9.8	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Hexachlorobenzene, 3541 Low Solid*	32	U	9.4	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Diethyl phthalate, 3541 Low Solid*	66	U	9.4	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	160	U	9.7	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Pentachlorophenol, 3541 Low Solid*	320	U	110	320	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	32	U	10	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	660	U	170	660	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Phenanthrene, 3541 Low Solid*	96	U	15	49	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Anthracene, 3541 Low Solid*	19	J	11	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Carbazole, 3541 Low Solid*	160	U	12	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	160	U	11	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Fluoranthene, 3541 Low Solid*	250	U	11	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Pyrene, 3541 Low Solid*	110	U	12	49	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	66	U	10	66	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Benzo(a)anthracene, 3541 Low Solid*	80	U	9.7	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Chrysene, 3541 Low Solid*	92	U	10	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231912 Date: 12/07/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 1A ADES ATTN: Eric Ellis

Customer Sample ID: LL7ss-032M-SO  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 08:55  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-21  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	160		U	14	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	160		U	32	160	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	320		U	10	320	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	120		#	8.8	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	77			9.3	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Benzo(a)pyrene, 3541 Low Solid*	94			9.4	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	48			10	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	14		J	9.4	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	45			11	32	1.00000	ug/Kg	136309		11/29/04 0944	dpk
Method	% Solids Determination											
	% Solids, Solid	98.0			0.10	0.10	1	%	134487		11/16/04 1203	daj
	% Moisture, Solid	2.0			0.10	0.10	1	%	134487		11/16/04 1203	daj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/30/2004

CUSTOMER: NICH Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellits

Customer Sample ID: LL7ss-032M-S0  
 Date Sampled.....: 11/10/2004  
 Time Sampled.....: 08:55  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-21  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

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	0.20	U		0.056	0.20	1.00000	mg/Kg	135657		11/20/04 1503	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	135657		11/20/04 1503	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	135657		11/20/04 1503	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135657		11/20/04 1503	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	135657		11/20/04 1503	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	135657		11/20/04 1503	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	135657		11/20/04 1503	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	135657		11/20/04 1503	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	135657		11/20/04 1503	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	135657		11/20/04 1503	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	135657		11/20/04 1503	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	135657		11/20/04 1503	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	135657		11/20/04 1503	san
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	135657		11/20/04 1503	san	
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	135669		11/19/04 2155	san	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL7ss-032M-S0

Trace Level Organic Compounds

Matrix.....: SOLID

Lot-Sample #....: G4K120333-002    Work Order #....: GWW751AA  
Date Sampled....: 11/10/04 08:55    Date Received..: 11/12/04  
Prep Date.....: 11/19/04    Analysis Date..: 11/21/04  
Prep Batch #....: 4322550  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

Client Sample ID: LL7ss-032M-SO

General Chemistry

Matrix.....: SOLID

Lot-Sample #....: G4K120333-002      Work Order #....: GWW75  
Date Sampled....: 11/10/04 08:55      Date Received...: 11/12/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.2 B,J	2.0	mg/kg	MCAW 353.2	11/20-11/24/04	4325110
				Dilution Factor: 1		
				Initial Wgt/Vol: 10 g		
				MDL.....: 0.57		Final Wgt/Vol...: 40 mL

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS												
Job Number: 232169				Date: 12/14/2004								
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-033M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 13:25 Sample Matrix.....: Soil						Laboratory Sample ID: 232169-9 Date Received.....: 11/20/2004 Time Received.....: 09:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	97.1			0.10	0.10	1	%	135125		11/22/04 1417	daj
	% Solids, Solid				0.10	0.10	1	%	135125		11/22/04 1417	daj
	% Moisture, Solid	2.9										
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.94	B		0.58	2.0	1	mg/Kg	135715		11/30/04 1222	kd

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-033M-SO  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 13:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-9  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	97.1			0.10	0.10	1	%	135125		11/22/04 1417	daj
	% Moisture, Solid	2.9			0.10	0.10	1	%	135125		11/22/04 1417	daj
7041	Antimony (GFAA) Antimony, Solid*	1.3		U	0.41	1.3	1	mg/Kg	135422		11/24/04 1142	daj
7841	Thallium (GFAA) Thallium, Solid*	0.56		U	0.18	0.56	1	mg/Kg	135426		11/24/04 0910	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.043			0.0020	0.017	1	mg/Kg	135976		12/02/04 1424	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	6900			2.3	14	1	mg/Kg	135758		12/01/04 0352	tds
	Barium, Solid*	50			0.15	0.96	1	mg/Kg	135758		12/01/04 0352	tds
	Arsenic, Solid*	9.4			0.49	1.4	1	mg/Kg	135758		12/01/04 0352	tds
	Beryllium, Solid*	0.47			0.042	0.38	1	mg/Kg	135758		12/01/04 0352	tds
	Cadmium, Solid*	0.24		U	0.077	0.24	1	mg/Kg	135758		12/01/04 0352	tds
	Calcium, Solid*	1000			3.0	9.6	1	mg/Kg	135758		12/01/04 0352	tds
	Chromium, Solid*	14			0.21	0.96	1	mg/Kg	135758		12/01/04 0352	tds
	Cobalt, Solid*	5.8			0.13	0.48	1	mg/Kg	135758		12/01/04 0352	tds
	Copper, Solid*	10			0.86	2.9	1	mg/Kg	135758		12/01/04 0352	tds
	Iron, Solid*	16000			2.9	9.6	1	mg/Kg	135758		12/01/04 0352	tds
	Magnesium, Solid*	1200			1.6	9.6	1	mg/Kg	135758		12/01/04 0352	tds
	Manganese, Solid*	510			0.12	0.96	1	mg/Kg	135758		12/01/04 0352	tds
	Nickel, Solid*	12			0.24	0.96	1	mg/Kg	135758		12/01/04 0352	tds
	Lead, Solid*	23			0.41	1.4	1	mg/Kg	135758		12/01/04 0352	tds
	Potassium, Solid*	780			13	48	1	mg/Kg	135758		12/01/04 0352	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-033M-SO  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 13:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-9  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.63	B		0.38	1.4	1	mg/Kg	135758		12/01/04 0352	tds
	Silver, Solid*	0.96	U		0.30	0.96	1	mg/Kg	135758		12/01/04 0352	tds
	Sodium, Solid*	190	B		83	290	1	mg/Kg	135758		12/01/04 0352	tds
	Vanadium, Solid*	15			0.20	0.96	1	mg/Kg	135758		12/01/04 0352	tds
	Zinc, Solid*	100			0.38	1.9	1	mg/Kg	135758		12/01/04 0352	tds

\* In Description = Dry Wgt.

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Job Number: 232169		LABORATORY TEST RESULTS						Date: 12/03/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-033M-SO Date Sampled.....: 11/18/2004 Time Sampled.....: 13:25 Sample Matrix.....: Soil			Laboratory Sample ID: 232169-9 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	NMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	136083		12/01/04 2143	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	136083		12/01/04 2143	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	136083		12/01/04 2143	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	136083		12/01/04 2143	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	136083		12/01/04 2143	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	136083		12/01/04 2143	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	136083		12/01/04 2143	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	136083		12/01/04 2143	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136083		12/01/04 2143	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	136083		12/01/04 2143	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	136083		12/01/04 2143	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	136083		12/01/04 2143	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	136083		12/01/04 2143	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	136083		12/01/04 2143	san

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 232169 Date: 12/14/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-033M-DUP  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 13:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-7  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	86.9			0.10	0.10	1	%	135125		11/22/04 1411	daj
	% Solids, Solid	13.1			0.10	0.10	1	%	135125		11/22/04 1411	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)	0.85		B	0.63	2.2	1	mg/Kg	135715		11/30/04 1221	kd
	Nitrate as N (NO3-N), Solid*											

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-033M-DUP  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 13:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-7  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	86.9		0.10	0.10	1	%	135125		11/22/04 1411	daj
	% Moisture, Solid	13.1		0.10	0.10	1	%	135125		11/22/04 1411	daj
7041	Antimony (GFAA) Antimony, Solid*	0.54	B	0.47	1.5	1	mg/Kg	135375		11/24/04 0024	daj
7841	Thallium (GFAA) Thallium, Solid*	0.64	U	0.20	0.64	1	mg/Kg	135426		11/24/04 0359	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.050		0.0022	0.019	1	mg/Kg	135976		12/02/04 1420	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	12000		2.6	16	1	mg/Kg	135758		12/01/04 0340	tds
	Barium, Solid*	120		0.17	1.1	1	mg/Kg	135758		12/01/04 0340	tds
	Arsenic, Solid*	8.8		0.56	1.6	1	mg/Kg	135758		12/01/04 0340	tds
	Beryllium, Solid*	0.82		0.048	0.44	1	mg/Kg	135758		12/01/04 0340	tds
	Cadmium, Solid*	0.27	U	0.087	0.27	1	mg/Kg	135758		12/01/04 0340	tds
	Calcium, Solid*	710		3.4	11	1	mg/Kg	135758		12/01/04 0340	tds
	Chromium, Solid*	23		0.24	1.1	1	mg/Kg	135758		12/01/04 0340	tds
	Cobalt, Solid*	11		0.15	0.54	1	mg/Kg	135758		12/01/04 0340	tds
	Copper, Solid*	10		0.98	3.3	1	mg/Kg	135758		12/01/04 0340	tds
	Iron, Solid*	20000		3.3	11	1	mg/Kg	135758		12/01/04 0340	tds
	Magnesium, Solid*	2200		1.9	11	1	mg/Kg	135758		12/01/04 0340	tds
	Manganese, Solid*	1400		0.14	1.1	1	mg/Kg	135758		12/01/04 0340	tds
	Nickel, Solid*	20		0.27	1.1	1	mg/Kg	135758		12/01/04 0340	tds
	Lead, Solid*	22		0.47	1.6	1	mg/Kg	135758		12/01/04 0340	tds
	Potassium, Solid*	980		15	54	1	mg/Kg	135758		12/01/04 0340	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: HCN Engineers, Inc. PROJECT: USACE RWAMP 14 AGGS ATTN: Eric Ellis

Customer Sample ID: LL7ss-033M-DUP  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 13:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-7  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDI	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.91	B		0.44	1.6	1	mg/Kg	135758		12/01/04 0340	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	135758		12/01/04 0340	tds
	Sodium, Solid*	290	B		94	330	1	mg/Kg	135758		12/01/04 0340	tds
	Vanadium, Solid*	23			0.23	1.1	1	mg/Kg	135758		12/01/04 0340	tds
	Zinc, Solid*	59			0.44	2.2	1	mg/Kg	135758		12/01/04 0340	tds

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/03/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 AODS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-033M-DUP  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 13:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-7  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

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	0.20	U		0.055	0.20	1.00000	mg/Kg	136083		12/01/04 2038	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	136083		12/01/04 2038	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	136083		12/01/04 2038	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	136083		12/01/04 2038	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	136083		12/01/04 2038	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	136083		12/01/04 2038	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	136083		12/01/04 2038	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	136083		12/01/04 2038	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136083		12/01/04 2038	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	136083		12/01/04 2038	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	136083		12/01/04 2038	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	136083		12/01/04 2038	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	136083		12/01/04 2038	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	136083		12/01/04 2038	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232169				Date: 12/14/2004								
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-034M-SQ Date Sampled.....: 11/18/2004 Time Sampled.....: 14:05 Sample Matrix.....: Soil				Laboratory Sample ID: 232169-4 Date Received.....: 11/20/2004 Time Received.....: 09:00								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	84.4			0.10	0.10	1	%	135125		11/22/04 1358	daj
	% Solids, Solid	15.6			0.10	0.10	1	%	135125		11/22/04 1358	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	3.9			0.61	2.1	1	mg/Kg	135715		11/30/04 1212	kd

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RYAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-034M-SO  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:05  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-4  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	84.4		0.10	0.10	1	%	135125		11/22/04 1358	daj
	% Moisture, Solid	15.6		0.10	0.10	1	%	135125		11/22/04 1358	daj
7041	Antimony (GFAA) Antimony, Solid*	1.6	U	0.49	1.6	1	mg/Kg	135375		11/23/04 2311	daj
7841	Thallium (GFAA) Thallium, Solid*	0.66	U	0.21	0.66	1	mg/Kg	135426		11/24/04 0237	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.053		0.0023	0.020	1	mg/Kg	135976		12/02/04 1400	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	10000		2.7	17	1	mg/Kg	135758		12/01/04 0230	tds
	Barium, Solid*	110		0.18	1.1	1	mg/Kg	135758		12/01/04 0230	tds
	Arsenic, Solid*	8.3		0.57	1.7	1	mg/Kg	135758		12/01/04 0230	tds
	Beryllium, Solid*	0.84		0.049	0.45	1	mg/Kg	135758		12/01/04 0230	tds
	Cadmium, Solid*	0.28	U	0.089	0.28	1	mg/Kg	135758		12/01/04 0230	tds
	Calcium, Solid*	520		3.5	11	1	mg/Kg	135758		12/01/04 0230	tds
	Chromium, Solid*	17		0.25	1.1	1	mg/Kg	135758		12/01/04 0230	tds
	Cobalt, Solid*	10		0.16	0.56	1	mg/Kg	135758		12/01/04 0230	tds
	Copper, Solid*	9.8		1.0	3.4	1	mg/Kg	135758		12/01/04 0230	tds
	Iron, Solid*	16000		3.4	11	1	mg/Kg	135758		12/01/04 0230	tds
	Magnesium, Solid*	1700		1.9	11	1	mg/Kg	135758		12/01/04 0230	tds
	Manganese, Solid*	1300		0.15	1.1	1	mg/Kg	135758		12/01/04 0230	tds
	Nickel, Solid*	16		0.28	1.1	1	mg/Kg	135758		12/01/04 0230	tds
	Lead, Solid*	27		0.48	1.7	1	mg/Kg	135758		12/01/04 0230	tds
	Potassium, Solid*	680		15	56	1	mg/Kg	135758		12/01/04 0230	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232169								Date: 12/10/2004				
CUSTOMER: HKM Engineers, Inc.				PROJECT: USACE RVAAP 14 ACES				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-034M-SO Date Sampled.....: 11/18/2004 Time Sampled.....: 14:05 Sample Matrix.....: Soil						Laboratory Sample ID: 232169-4 Date Received.....: 11/20/2004 Time Received.....: 09:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.98	B		0.45	1.7	1	mg/Kg	135758		12/01/04 0230	tds
	Silver, Solid*	1.1	U		0.35	1.1	1	mg/Kg	135758		12/01/04 0230	tds
	Sodium, Solid*	270	B		97	340	1	mg/Kg	135758		12/01/04 0230	tds
	Vanadium, Solid*	20			0.23	1.1	1	mg/Kg	135758		12/01/04 0230	tds
	Zinc, Solid*	56			0.45	2.2	1	mg/Kg	135758		12/01/04 0230	tds

\* In Description = Dry Wgt.

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Job Number: 232169		LABORATORY TEST RESULTS							Date: 12/03/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-034M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 14:05 Sample Matrix.....: Soil			Laboratory Sample ID: 232169-4 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	136083		12/01/04 1723	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	136083		12/01/04 1723	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	136083		12/01/04 1723	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	136083		12/01/04 1723	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	136083		12/01/04 1723	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	136083		12/01/04 1723	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	136083		12/01/04 1723	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	136083		12/01/04 1723	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	136083		12/01/04 1723	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	136083		12/01/04 1723	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	136083		12/01/04 1723	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136083		12/01/04 1723	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	136083		12/01/04 1723	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	136083		12/01/04 1723	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	136089		12/02/04 0107	bcw

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LL7ss-034M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K2002229-006    Work Order #....: GXJH911A    Matrix.....: SOLID  
Date Sampled....: 11/18/04 14:05    Date Received..: 11/20/04  
Prep Date.....: 12/02/04    Analysis Date..: 12/05/04  
Prep Batch #....: 4336497  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

Client Sample ID: LL7ss-034M-SO

General Chemistry

Lot-Sample #...: G4K200229-006  
Date Sampled...: 11/18/04

Work Order #...: GXJH9  
Date Received...: 11/20/04

Matrix.....: SOLID

<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	2.6 J	2.0	mg/kg	MCAWV 353.2	12/02-12/04/04	4336499
		MDL.....	: 0.57			

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS											
Job Number: 232169								Date: 12/14/2004			
CUSTOMER: MGH Engineers, Inc.				PROJECT: USAGE RYAAP 14 ADDS				ATTN: Eric Ellis			
Customer Sample ID: LL7ss-035M-SD Date Sampled.....: 11/18/2004 Time Sampled.....: 14:45 Sample Matrix.....: Soil						Laboratory Sample ID: 232169-10 Date Received.....: 11/20/2004 Time Received.....: 09:00					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	95.5		0.10	0.10	1	%	135125		11/22/04 1420	daj
	% Solids, Solid	4.5		0.10	0.10	1	%	135125		11/22/04 1420	daj
	% Moisture, Solid										
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.59	B	0.57	2.0	1	mg/Kg	135715		11/30/04 1223	kd

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: NICK Engineers, Inc.

PROJECT: USAGE: RYMAP 14 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-035M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-10  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	95.5			0.10	0.10	1	%	135125		11/22/04 1420	daj
	% Moisture, Solid	4.5			0.10	0.10	1	%	135125		11/22/04 1420	daj
7041	Antimony (GFAA) Antimony, Solid*	1.3		U	0.42	1.3	1	mg/Kg	135422		11/24/04 1207	daj
7841	Thallium (GFAA) Thallium, Solid*	0.57		U	0.18	0.57	1	mg/Kg	135426		11/24/04 0450	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.038			0.0020	0.017	1	mg/Kg	135976		12/02/04 1427	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	6700			2.3	14	1	mg/Kg	135758		12/01/04 0359	tds
	Barium, Solid*	49			0.15	0.96	1	mg/Kg	135758		12/01/04 0359	tds
	Arsenic, Solid*	8.2			0.49	1.4	1	mg/Kg	135758		12/01/04 0359	tds
	Beryllium, Solid*	0.51			0.042	0.39	1	mg/Kg	135758		12/01/04 0359	tds
	Cadmium, Solid*	0.24		U	0.077	0.24	1	mg/Kg	135758		12/01/04 0359	tds
	Calcium, Solid*	640			3.0	9.6	1	mg/Kg	135758		12/01/04 0359	tds
	Chromium, Solid*	13			0.21	0.96	1	mg/Kg	135758		12/01/04 0359	tds
	Cobalt, Solid*	6.7			0.13	0.48	1	mg/Kg	135758		12/01/04 0359	tds
	Copper, Solid*	9.6			0.87	2.9	1	mg/Kg	135758		12/01/04 0359	tds
	Iron, Solid*	14000			2.9	9.6	1	mg/Kg	135758		12/01/04 0359	tds
	Magnesium, Solid*	1200			1.6	9.6	1	mg/Kg	135758		12/01/04 0359	tds
	Manganese, Solid*	760			0.13	0.96	1	mg/Kg	135758		12/01/04 0359	tds
	Nickel, Solid*	9.9			0.24	0.96	1	mg/Kg	135758		12/01/04 0359	tds
	Lead, Solid*	36			0.41	1.4	1	mg/Kg	135758		12/01/04 0359	tds
	Potassium, Solid*	620			13	48	1	mg/Kg	135758		12/01/04 0359	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AODS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-035M-50  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-10  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	IDT	DATE/TIME	TECH
	Selenium, Solid*	0.76	B		0.39	1.4	1	mg/Kg	135758		12/01/04 0359	tds
	Silver, Solid*	0.96	U		0.30	0.96	1	mg/Kg	135758		12/01/04 0359	tds
	Sodium, Solid*	190	B		84	290	1	mg/Kg	135758		12/01/04 0359	tds
	Vanadium, Solid*	15			0.20	0.96	1	mg/Kg	135758		12/01/04 0359	tds
	Zinc, Solid*	37			0.39	1.9	1	mg/Kg	135758		12/01/04 0359	tds

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/03/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-035M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-10  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

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	0.20	U		0.055	0.20	1.00000	mg/Kg	136083		12/01/04 2216	san
	RDX, Solid	0.20	U		0.061	0.20	1.00000	mg/Kg	136083		12/01/04 2216	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	136083		12/01/04 2216	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	136083		12/01/04 2216	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	136083		12/01/04 2216	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	136083		12/01/04 2216	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	136083		12/01/04 2216	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	136083		12/01/04 2216	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136083		12/01/04 2216	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	136083		12/01/04 2216	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.092	0.29	1.00000	mg/Kg	136083		12/01/04 2216	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	136083		12/01/04 2216	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	136083		12/01/04 2216	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	136083		12/01/04 2216	san

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Job Number: 232169								Date: 12/14/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-036M-SO Date Sampled.....: 11/18/2004 Time Sampled.....: 14:15 Sample Matrix.....: Soil					Laboratory Sample ID: 232169-6 Date Received.....: 11/20/2004 Time Received.....: 09:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	96.5		0.10	0.10	1	%	135125		11/22/04 1404	daj
	% Solids, Solid			0.10	0.10	1	%	135125		11/22/04 1404	daj
	% Moisture, Solid	3.5									
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.0	B	0.58	2.0	1	mg/Kg	135715		11/30/04 1217	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric ELLIS

Customer Sample ID: LL7ss-036M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-6  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	96.5			0.10	0.10	1	%	135125		11/22/04 1404	daj
	% Moisture, Solid	3.5			0.10	0.10	1	%	135125		11/22/04 1404	daj
7041	Antimony (GFAA) Antimony, Solid*	1.3		U	0.42	1.3	1	mg/Kg	135422		11/24/04 1111	daj
7841	Thallium (GFAA) Thallium, Solid*	0.57		U	0.18	0.57	1	mg/Kg	135426		11/24/04 0303	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.053			0.0020	0.017	1	mg/Kg	135976		12/02/04 1412	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.3	15	1	mg/Kg	135758		12/01/04 0243	tds
	Barium, Solid*	100			0.16	0.98	1	mg/Kg	135758		12/01/04 0243	tds
	Arsenic, Solid*	7.5			0.50	1.5	1	mg/Kg	135758		12/01/04 0243	tds
	Beryllium, Solid*	0.81			0.043	0.39	1	mg/Kg	135758		12/01/04 0243	tds
	Cadmium, Solid*	0.24		U	0.078	0.24	1	mg/Kg	135758		12/01/04 0243	tds
	Calcium, Solid*	400			3.0	9.8	1	mg/Kg	135758		12/01/04 0243	tds
	Chromium, Solid*	15			0.21	0.98	1	mg/Kg	135758		12/01/04 0243	tds
	Cobalt, Solid*	12			0.14	0.49	1	mg/Kg	135758		12/01/04 0243	tds
	Copper, Solid*	8.8			0.88	2.9	1	mg/Kg	135758		12/01/04 0243	tds
	Iron, Solid*	16000			2.9	9.8	1	mg/Kg	135758		12/01/04 0243	tds
	Magnesium, Solid*	1800			1.7	9.8	1	mg/Kg	135758		12/01/04 0243	tds
	Manganese, Solid*	1300			0.13	0.98	1	mg/Kg	135758		12/01/04 0243	tds
	Nickel, Solid*	16			0.24	0.98	1	mg/Kg	135758		12/01/04 0243	tds
	Lead, Solid*	24			0.42	1.5	1	mg/Kg	135758		12/01/04 0243	tds
	Potassium, Solid*	750			13	49	1	mg/Kg	135758		12/01/04 0243	tds

\* In Description = Dry Wgt.

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Job Number: 232169		LABORATORY TEST RESULTS					Date: 12/10/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs			ATTN: Eric Ellis					
Customer Sample ID: LL7ss-036M-SO			Laboratory Sample ID: 232169-6								
Date Sampled.....: 11/18/2004			Date Received.....: 11/20/2004								
Time Sampled.....: 14:15			Time Received.....: 09:00								
Sample Matrix.....: Soil											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.90	B	0.39	1.5	1	mg/Kg	135758		12/01/04 0243	tds
	Silver, Solid*	0.98	U	0.30	0.98	1	mg/Kg	135758		12/01/04 0243	tds
	Sodium, Solid*	260	B	85	290	1	mg/Kg	135758		12/01/04 0243	tds
	Vanadium, Solid*	20		0.20	0.98	1	mg/Kg	135758		12/01/04 0243	tds
	Zinc, Solid*	56		0.39	2.0	1	mg/Kg	135758		12/01/04 0243	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/03/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-036M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-6  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

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	0.20	U		0.056	0.20	1.00000	mg/Kg	136083		12/01/04 1828	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	136083		12/01/04 1828	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	136083		12/01/04 1828	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	136083		12/01/04 1828	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	136083		12/01/04 1828	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	136083		12/01/04 1828	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	136083		12/01/04 1828	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	136083		12/01/04 1828	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	136083		12/01/04 1828	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	136083		12/01/04 1828	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	136083		12/01/04 1828	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136083		12/01/04 1828	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	136083		12/01/04 1828	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	136083		12/01/04 1828	san
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	136089		12/02/04 0218	bdw	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LT7ss-036M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K200229-004    Work Order #....: GXJH51AA    Matrix.....: SOLID  
Date Sampled....: 11/18/04 14:15    Date Received..: 11/20/04  
Prep Date.....: 12/02/04    Analysis Date..: 12/05/04  
Prep Batch #....: 4336497  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: IL7ss-036M-SO

General Chemistry

Lot-Sample #....: G4K200229-004      Work Order #....: GXJH5      Matrix.....: SOLID  
Date Sampled....: 11/18/04      Date Received...: 11/20/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Nitrocellulose	1.6 B,J	2.0	mg/kg	MCAWM	353.2	ANALYSIS DATE      BATCH #
			MDL.....			12/02-12/04/04      4336499

NOTE(S) :

- RL Reporting Limit
- B Estimated result. Result is less than RL.
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS

Job Number: 232200

Date: 12/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-036M-QA  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232200-7  
 Date Received.....: 11/23/2004  
 Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	98.3			0.10	0.10	1	%	135255		11/23/04 1129	daj
	% Solids, Solid	1.7			0.10	0.10	1	%	135255		11/23/04 1129	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.2		B	0.55	1.9	1	mg/Kg	135953		12/02/04 1221	kd

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 232200

Date: 12/09/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-036M-QA  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232200-7  
 Date Received.....: 11/23/2004  
 Time Received.....: 09:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDE	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.3			0.10	0.10	1	%	135255		11/23/04 1129	daj
	% Moisture, Solid	1.7			0.10	0.10	1	%	135255		11/23/04 1129	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.44	1.4	1	mg/Kg	135886		12/01/04 1543	daj
7841	Thallium (GFAA) Thallium, Solid*	0.60		U	0.19	0.60	1	mg/Kg	135793		11/30/04 1015	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.066			0.0020	0.017	1	mg/Kg	136553		12/08/04 1603	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			1.1	14	1	mg/Kg	136189		12/03/04 2213	tds
	Barium, Solid*	98			0.11	0.92	1	mg/Kg	136189		12/03/04 2213	tds
	Arsenic, Solid*	7.1			0.39	1.4	1	mg/Kg	136189		12/03/04 2213	tds
	Beryllium, Solid*	0.77			0.012	0.37	1	mg/Kg	136189		12/03/04 2213	tds
	Cadmium, Solid*	0.23		U	0.023	0.23	1	mg/Kg	136189		12/03/04 2213	tds
	Calcium, Solid*	370			0.73	9.2	1	mg/Kg	136189		12/03/04 2213	tds
	Chromium, Solid*	16			0.10	0.92	1	mg/Kg	136189		12/03/04 2213	tds
	Cobalt, Solid*	10			0.056	0.46	1	mg/Kg	136189		12/03/04 2213	tds
	Copper, Solid*	8.7			0.30	2.8	1	mg/Kg	136189		12/03/04 2213	tds
	Iron, Solid*	16000			3.0	9.2	1	mg/Kg	136189		12/03/04 2213	tds
	Magnesium, Solid*	1800			1.0	9.2	1	mg/Kg	136189		12/03/04 2213	tds
	Manganese, Solid*	1100			0.031	0.92	1	mg/Kg	136189		12/03/04 2213	tds
	Nickel, Solid*	16			0.10	0.92	1	mg/Kg	136189		12/03/04 2213	tds
	Lead, Solid*	19			0.19	1.4	1	mg/Kg	136189		12/03/04 2213	tds
	Potassium, Solid*	780			4.2	46	1	mg/Kg	136189		12/03/04 2213	tds

\* In Description = Dry Wgt.

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Job Number: 232200		LABORATORY TEST RESULTS						Date: 12/09/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-036M-0A Date Sampled.....: 11/18/2004 Time Sampled.....: 14:45 Sample Matrix.....: Soil			Laboratory Sample ID: 232200-7 Date Received.....: 11/23/2004 Time Received.....: 09:40									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.59	B		0.46	1.4	1	mg/Kg	136189		12/03/04 2213	tds
	Silver, Solid*	0.92	U		0.10	0.92	1	mg/Kg	136189		12/03/04 2213	tds
	Sodium, Solid*	260	B		79	280	1	mg/Kg	136189		12/03/04 2213	tds
	Vanadium, Solid*	20			0.083	0.92	1	mg/Kg	136189		12/03/04 2213	tds
	Zinc, Solid*	50			0.73	1.8	1	mg/Kg	136189		12/03/04 2213	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232200

Date: 12/08/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-036M-0A  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232200-7  
 Date Received.....: 11/23/2004  
 Time Received.....: 09:40

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	0.20	U		0.056	0.20	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136507		12/02/04 0427	bdw
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	136507		12/02/04 0427	bdw
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	136507		12/02/04 0427	bdw	
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	136510		12/02/04 0551	bdw	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: IL7ss-036M-QA

Trace Level Organic Compounds

Lot-Sample #....: G4K230379-004    Work Order #....: GXP6K1AA    Matrix.....: SOLID  
Date Sampled....: 11/18/04 14:45    Date Received...: 11/23/04  
Prep Date.....: 12/02/04    Analysis Date...: 12/05/04  
Prep Batch #....: 4336497  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: IL7ss-036M-QA

General Chemistry

Lot-Sample #...: G4K230379-004      Work Order #...: GXP6K      Matrix.....: SOLID  
Date Sampled...: 11/18/04      Date Received...: 11/23/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.6 B,J	2.0	mg/kg	MCAWV 353.2	12/02-12/04/04	4336499
			MDL.....: 0.57			

NOTE(S) :

- RL Reporting Limit
- B Estimated result. Result is less than RL.
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 232169		LABORATORY TEST RESULTS						Date: 12/14/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-037M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 14:50 Sample Matrix.....: Soil			Laboratory Sample ID: 232169-3 Date Received.....: 11/20/2004 Time Received.....: 09:00									
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	%	135125		11/22/04 1355	daj
	% Solids, Solid	17.3			0.10	0.10	1	%	135125		11/22/04 1355	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	2.8			0.67	2.4	1	mg/Kg	135715		11/30/04 1211	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/10/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL7ss-037M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-3  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	82.7			0.10	0.10	1	%	135125		11/22/04 1355	daj
	% Moisture, Solid	17.3			0.10	0.10	1	%	135125		11/22/04 1355	daj
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.49	1.6	1	mg/Kg	135375		11/23/04 2259	daj
7841	Thallium (GFAA) Thallium, Solid*	0.67		U	0.21	0.67	1	mg/Kg	135426		11/24/04 0212	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.049			0.0024	0.020	1	mg/Kg	135976		12/02/04 1358	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	9600			2.7	17	1	mg/Kg	135758		12/01/04 0224	tds
	Barium, Solid*	79			0.18	1.1	1	mg/Kg	135758		12/01/04 0224	tds
	Arsenic, Solid*	7.3			0.58	1.7	1	mg/Kg	135758		12/01/04 0224	tds
	Beryllium, Solid*	0.72			0.050	0.45	1	mg/Kg	135758		12/01/04 0224	tds
	Cadmium, Solid*	0.28		U	0.090	0.28	1	mg/Kg	135758		12/01/04 0224	tds
	Calcium, Solid*	230			3.5	11	1	mg/Kg	135758		12/01/04 0224	tds
	Chromium, Solid*	17			0.25	1.1	1	mg/Kg	135758		12/01/04 0224	tds
	Cobalt, Solid*	8.8			0.16	0.57	1	mg/Kg	135758		12/01/04 0224	tds
	Copper, Solid*	9.0			1.0	3.4	1	mg/Kg	135758		12/01/04 0224	tds
	Iron, Solid*	14000			3.4	11	1	mg/Kg	135758		12/01/04 0224	tds
	Magnesium, Solid*	1400			1.9	11	1	mg/Kg	135758		12/01/04 0224	tds
	Manganese, Solid*	1000			0.15	1.1	1	mg/Kg	135758		12/01/04 0224	tds
	Nickel, Solid*	16			0.28	1.1	1	mg/Kg	135758		12/01/04 0224	tds
	Lead, Solid*	21			0.49	1.7	1	mg/Kg	135758		12/01/04 0224	tds
	Potassium, Solid*	510			16	57	1	mg/Kg	135758		12/01/04 0224	tds

\* In Description = Dry Wgt.

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Job Number: 232169		LABORATORY TEST RESULTS						Date:12/10/2004				
CUSTOMER: HGM Engineers, Inc.			PROJECT: USACE RVAAP 14 NOISS				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-037M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 14:50 Sample Matrix.....: Soil			Laboratory Sample ID: 232169-3 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	ML	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.64	B		0.45	1.7	1	mg/Kg	135758		12/01/04 0224	tds
	Silver, Solid*	1.1	U		0.35	1.1	1	mg/Kg	135758		12/01/04 0224	tds
	Sodium, Solid*	240	B		98	340	1	mg/Kg	135758		12/01/04 0224	tds
	Vanadium, Solid*	17			0.24	1.1	1	mg/Kg	135758		12/01/04 0224	tds
	Zinc, Solid*	48			0.45	2.3	1	mg/Kg	135758		12/01/04 0224	tds

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/03/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAMP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-037M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 14:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-3  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	136083		12/01/04 1651	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	136083		12/01/04 1651	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	136083		12/01/04 1651	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	136083		12/01/04 1651	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	136083		12/01/04 1651	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	136083		12/01/04 1651	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	136083		12/01/04 1651	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	136083		12/01/04 1651	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	136083		12/01/04 1651	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	136083		12/01/04 1651	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	136083		12/01/04 1651	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136083		12/01/04 1651	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	136083		12/01/04 1651	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	136083		12/01/04 1651	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232168

Date: 12/14/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOES

ATTN: Eric Ellis

Customer Sample ID: LL7ss-038M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 15:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232168-17  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	90.8			0.10	0.10	1	%	135002		11/21/04 1539	clb
	% Solids, Solid	9.2			0.10	0.10	1	%	135002		11/21/04 1539	clb
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.95		B	0.60	2.1	1	mg/Kg	135715		11/30/04 1207	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232168

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-038M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 15:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232168-17  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	90.8		0.10	0.10	1	%	135002		11/21/04 1539	clb
	% Moisture, Solid	9.2		0.10	0.10	1	%	135002		11/21/04 1539	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5	U	0.46	1.5	1	mg/Kg	135886		12/01/04 1132	daj
7841	Thallium (GFAA) Thallium, Solid*	0.26	B	0.20	0.63	1	mg/Kg	135793		11/30/04 0346	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.067		0.0021	0.018	1	mg/Kg	135881		12/01/04 1458	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	11000		2.4	15	1	mg/Kg	135758		12/01/04 0007	tds
	Barium, Solid*	96		0.16	1.0	1	mg/Kg	135758		12/01/04 0007	tds
	Arsenic, Solid*	8.3		0.52	1.5	1	mg/Kg	135758		12/01/04 0007	tds
	Beryllium, Solid*	0.81		0.045	0.41	1	mg/Kg	135758		12/01/04 0007	tds
	Cadmium, Solid*	0.25	U	0.082	0.25	1	mg/Kg	135758		12/01/04 0007	tds
	Calcium, Solid*	340		3.2	10	1	mg/Kg	135758		12/01/04 0007	tds
	Chromium, Solid*	19		0.22	1.0	1	mg/Kg	135758		12/01/04 0007	tds
	Cobalt, Solid*	12		0.14	0.51	1	mg/Kg	135758		12/01/04 0007	tds
	Copper, Solid*	9.7		0.92	3.1	1	mg/Kg	135758		12/01/04 0007	tds
	Iron, Solid*	17000		3.1	10	1	mg/Kg	135758		12/01/04 0007	tds
	Magnesium, Solid*	1900		1.7	10	1	mg/Kg	135758		12/01/04 0007	tds
	Manganese, Solid*	1300		0.13	1.0	1	mg/Kg	135758		12/01/04 0007	tds
	Nickel, Solid*	18		0.25	1.0	1	mg/Kg	135758		12/01/04 0007	tds
	Lead, Solid*	23		0.44	0.51	1	mg/Kg	135758		12/01/04 0007	tds
	Potassium, Solid*	860		14	51	1	mg/Kg	135758		12/01/04 0007	tds

\* In Description = Dry Wgt.

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Job Number: 232168 LABORATORY TEST RESULTS Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USAGE RVAAP 14 ADDS ATTN: Eric Ellis

Customer Sample ID: LL7ss-038M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 15:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232168-17  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.88	B		0.41	1.5	1	mg/Kg	135758		12/01/04 0007	tds
	Silver, Solid*	1.0	U		0.32	1.0	1	mg/Kg	135758		12/01/04 0007	tds
	Sodium, Solid*	280	B		88	310	1	mg/Kg	135758		12/01/04 0007	tds
	Vanadium, Solid*	20			0.21	1.0	1	mg/Kg	135758		12/01/04 0007	tds
	Zinc, Solid*	54			0.41	2.0	1	mg/Kg	135758		12/01/04 0007	tds

\* In Description = Dry Wgt.

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Job Number: 232168		LABORATORY TEST RESULTS						Date: 12/03/2004				
CUSTOMER: KIM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-038M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 15:20 Sample Matrix.....: Soil			Laboratory Sample ID: 232168-17 Date Received.....: 11/20/2004 Time Received.....: 09:00									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	136031		12/01/04 0706	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	136031		12/01/04 0706	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.032	0.099	1.00000	mg/Kg	136031		12/01/04 0706	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	136031		12/01/04 0706	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	136031		12/01/04 0706	san
	2,4,6-TNT, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	136031		12/01/04 0706	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	136031		12/01/04 0706	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	136031		12/01/04 0706	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136031		12/01/04 0706	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	136031		12/01/04 0706	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	136031		12/01/04 0706	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	136031		12/01/04 0706	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	136031		12/01/04 0706	san
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	136031		12/01/04 0706	san	
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	136037		12/01/04 2209	san	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LI7ss-038M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K200229-003    Work Order #....: GXJH41AA    Matrix.....: SOLID  
Date Sampled....: 11/18/04 15:20    Date Received...: 11/20/04  
Prep Date.....: 12/02/04    Analysis Date...: 12/05/04  
Prep Batch #....: 4336497  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LL7SS-038M-SO

General Chemistry

Lot-Sample #....: G4K200229-003      Work Order #....: GXJH4  
Date Sampled....: 11/18/04      Date Received...: 11/20/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.6 B,J	2.0	mg/kg	MCAWW	353.2	12/02-12/04/04 4336499
	MDL.....		: 0.57			

NOTE(S) :

- RL Reporting Limit
- B Estimated result. Result is less than RL.
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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Job Number: 232169		LABORATORY TEST RESULTS						Date: 12/14/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL7ss-039M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 15:20 Sample Matrix.....: Soil			Laboratory Sample ID: 232169-2 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	81.1			0.10	0.10	1	%	135125		11/22/04 1351	daj
	% Solids, Solid	18.9			0.10	0.10	1	%	135125		11/22/04 1351	daj
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.3	B		0.65	2.3	1	mg/Kg	135715		11/30/04 1210	kd

\* In Description = Dry Wgt.



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Job Number: 232169		LABORATORY TEST RESULTS						Date: 12/10/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-039M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 15:20 Sample Matrix.....: Soil			Laboratory Sample ID: 232169-2 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	81.1			0.10	0.10	1	%	135125		11/22/04 1351	daj
	% Moisture, Solid	18.9			0.10	0.10	1	%	135125		11/22/04 1351	daj
7041	Antimony (GFAA) Antimony, Solid*	1.7		U	0.52	1.7	1	mg/Kg	135375		11/23/04 2235	daj
7841	Thallium (GFAA) Thallium, Solid*	0.71		U	0.23	0.71	1	mg/Kg	135426		11/24/04 0159	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.059			0.0024	0.020	1	mg/Kg	135976		12/02/04 1356	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			2.8	17	1	mg/Kg	135758		12/01/04 0218	tds
	Barium, Solid*	110			0.19	1.2	1	mg/Kg	135758		12/01/04 0218	tds
	Arsenic, Solid*	8.8			0.59	1.7	1	mg/Kg	135758		12/01/04 0218	tds
	Beryllium, Solid*	0.91			0.051	0.46	1	mg/Kg	135758		12/01/04 0218	tds
	Cadmium, Solid*	0.29		U	0.093	0.29	1	mg/Kg	135758		12/01/04 0218	tds
	Calcium, Solid*	380			3.6	12	1	mg/Kg	135758		12/01/04 0218	tds
	Chromium, Solid*	22			0.25	1.2	1	mg/Kg	135758		12/01/04 0218	tds
	Cobalt, Solid*	13			0.16	0.58	1	mg/Kg	135758		12/01/04 0218	tds
	Copper, Solid*	9.7			1.0	3.5	1	mg/Kg	135758		12/01/04 0218	tds
	Iron, Solid*	19000			3.5	12	1	mg/Kg	135758		12/01/04 0218	tds
	Magnesium, Solid*	2000			2.0	12	1	mg/Kg	135758		12/01/04 0218	tds
	Manganese, Solid*	1500			0.15	1.2	1	mg/Kg	135758		12/01/04 0218	tds
	Nickel, Solid*	20			0.29	1.2	1	mg/Kg	135758		12/01/04 0218	tds
	Lead, Solid*	27			0.50	1.7	1	mg/Kg	135758		12/01/04 0218	tds
	Potassium, Solid*	800			16	58	1	mg/Kg	135758		12/01/04 0218	tds

\* In Description = Dry Wgt.

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Job Number: 232169		LABORATORY TEST RESULTS						Date: 12/10/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-039M-SO Date Sampled.....: 11/18/2004 Time Sampled.....: 15:20 Sample Matrix.....: Soil			Laboratory Sample ID: 232169-2 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.0	B		0.46	1.7	1	mg/Kg	135758		12/01/04 0218	tds
	Silver, Solid*	1.2	U		0.36	1.2	1	mg/Kg	135758		12/01/04 0218	tds
	Sodium, Solid*	310	B		100	350	1	mg/Kg	135758		12/01/04 0218	tds
	Vanadium, Solid*	23			0.24	1.2	1	mg/Kg	135758		12/01/04 0218	tds
	Zinc, Solid*	61			0.46	2.3	1	mg/Kg	135758		12/01/04 0218	tds

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 232169 Date: 12/03/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AGCS ATTN: Eric Ellis

Customer Sample ID: LL7ss-039M-S0 Laboratory Sample ID: 232169-2  
 Date Sampled.....: 11/18/2004 Date Received.....: 11/20/2004  
 Time Sampled.....: 15:20 Time Received.....: 09:00  
 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	0.19	U		0.055	0.19	1.00000	mg/Kg	136083		12/01/04 1618	san
	RDX, Solid	0.19	U		0.061	0.19	1.00000	mg/Kg	136083		12/01/04 1618	san
	1,3,5-Trinitrobenzene, Solid	0.097	U		0.032	0.097	1.00000	mg/Kg	136083		12/01/04 1618	san
	1,3-Dinitrobenzene, Solid	0.097	U		0.023	0.097	1.00000	mg/Kg	136083		12/01/04 1618	san
	Nitrobenzene, Solid	0.097	U		0.020	0.097	1.00000	mg/Kg	136083		12/01/04 1618	san
	2,4,6-TNT, Solid	0.097	U		0.023	0.097	1.00000	mg/Kg	136083		12/01/04 1618	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	136083		12/01/04 1618	san
	2,4-Dinitrotoluene, Solid	0.097	U		0.025	0.097	1.00000	mg/Kg	136083		12/01/04 1618	san
	2,6-Dinitrotoluene, Solid	0.19	U		0.047	0.19	1.00000	mg/Kg	136083		12/01/04 1618	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.19	U		0.044	0.19	1.00000	mg/Kg	136083		12/01/04 1618	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.092	0.29	1.00000	mg/Kg	136083		12/01/04 1618	san
	2-Nitrotoluene, Solid	0.19	U		0.047	0.19	1.00000	mg/Kg	136083		12/01/04 1618	san
	4-Nitrotoluene, Solid	0.19	U		0.049	0.19	1.00000	mg/Kg	136083		12/01/04 1618	san
	3-Nitrotoluene, Solid	0.19	U		0.052	0.19	1.00000	mg/Kg	136083		12/01/04 1618	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232168

Date: 12/14/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOC5

ATTN: Eric Ellis

Customer Sample ID: LL7ss-040M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 15:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232168-23  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	87.1			0.10	0.10	1	%	135002		11/21/04 1556	clb
	% Solids, Solid	12.9			0.10	0.10	1	%	135002		11/21/04 1556	clb
	% Moisture, Solid											
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.9		B	0.62	2.2	1	mg/Kg	135715		11/30/04 1209	kd

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232168

Date: 12/06/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 1A AQCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-040N-SO  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 15:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232168-23  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.1			0.10	0.10	1	%	135002		11/21/04 1556	clb
	% Moisture, Solid	12.9			0.10	0.10	1	%	135002		11/21/04 1556	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.48	1.5	1	mg/Kg	135886		12/01/04 1258	daj
7841	Thallium (GFAA) Thallium, Solid*	0.66		U	0.21	0.66	1	mg/Kg	135793		11/30/04 0554	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.059			0.0022	0.019	1	mg/Kg	135881		12/01/04 1515	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	10000			2.5	16	1	mg/Kg	135758		12/01/04 0045	tds
	Barium, Solid*	67			0.17	1.1	1	mg/Kg	135758		12/01/04 0045	tds
	Arsenic, Solid*	7.9			0.54	1.6	1	mg/Kg	135758		12/01/04 0045	tds
	Beryllium, Solid*	0.72			0.047	0.42	1	mg/Kg	135758		12/01/04 0045	tds
	Cadmium, Solid*	0.26		U	0.085	0.26	1	mg/Kg	135758		12/01/04 0045	tds
	Calcium, Solid*	260			3.3	11	1	mg/Kg	135758		12/01/04 0045	tds
	Chromium, Solid*	14			0.23	1.1	1	mg/Kg	135758		12/01/04 0045	tds
	Cobalt, Solid*	9.3			0.15	0.53	1	mg/Kg	135758		12/01/04 0045	tds
	Copper, Solid*	8.6			0.95	3.2	1	mg/Kg	135758		12/01/04 0045	tds
	Iron, Solid*	15000			3.2	11	1	mg/Kg	135758		12/01/04 0045	tds
	Magnesium, Solid*	1500			1.8	11	1	mg/Kg	135758		12/01/04 0045	tds
	Manganese, Solid*	1000			0.14	1.1	1	mg/Kg	135758		12/01/04 0045	tds
	Nickel, Solid*	14			0.26	1.1	1	mg/Kg	135758		12/01/04 0045	tds
	Lead, Solid*	40			0.46	0.53	1	mg/Kg	135758		12/01/04 0045	tds
	Potassium, Solid*	660			15	53	1	mg/Kg	135758		12/01/04 0045	tds

\* In Description = Dry Wgt.

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Job Number: 232168		LABORATORY TEST RESULTS					Date: 12/06/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAMP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-040M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 15:50 Sample Matrix.....: Soil			Laboratory Sample ID: 232168-23 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.85		B	0.42	1.6	1	mg/Kg	135758		12/01/04 0045	tds
	Silver, Solid*	1.1		U	0.33	1.1	1	mg/Kg	135758		12/01/04 0045	tds
	Sodium, Solid*	240		B	92	320	1	mg/Kg	135758		12/01/04 0045	tds
	Vanadium, Solid*	19			0.22	1.1	1	mg/Kg	135758		12/01/04 0045	tds
	Zinc, Solid*	49			0.42	2.1	1	mg/Kg	135758		12/01/04 0045	tds

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 232168

Date: 12/03/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellits

Customer Sample ID: LL7ss-040M-SO  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 15:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232168-23  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

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	0.20	U		0.055	0.20	1.00000	mg/Kg	136031		12/01/04 1231	san
	RDX, Solid	0.20	U		0.061	0.20	1.00000	mg/Kg	136031		12/01/04 1231	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	136031		12/01/04 1231	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	136031		12/01/04 1231	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	136031		12/01/04 1231	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	136031		12/01/04 1231	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	136031		12/01/04 1231	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	136031		12/01/04 1231	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	136031		12/01/04 1231	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	136031		12/01/04 1231	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.092	0.29	1.00000	mg/Kg	136031		12/01/04 1231	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	136031		12/01/04 1231	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	136031		12/01/04 1231	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	136031		12/01/04 1231	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	136037		12/01/04 2245	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-041-S0  
 Date Sampled.....: 11/11/2004  
 Time Sampled.....: 15:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-30  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.7			0.10	0.10	1	%	134487		11/16/04 1225	daj
	% Moisture, Solid	12.3			0.10	0.10	1	%	134487		11/16/04 1225	daj
8260B	Volatile Organics											
	Chloromethane, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Vinyl chloride, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Bromomethane, Solid*	5.7	U		1.5	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Chloroethane, Solid*	5.7	U		1.1	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,1-Dichloroethene, Solid*	5.7	U		1.5	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Carbon disulfide, Solid*	5.7	U		1.4	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Acetone, Solid*	17	U		5.2	17	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Methylene chloride, Solid*	11	U		3.3	11	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	trans-1,2-Dichloroethene, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,1-Dichloroethane, Solid*	5.7	U		1.1	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	cis-1,2-Dichloroethene, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	2-Butanone (MEK), Solid*	17	U		4.4	17	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Bromochloromethane, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Chloroform, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,1,1-Trichloroethane, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Carbon tetrachloride, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Benzene, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,2-Dichloroethane, Solid*	5.7	U		1.1	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Trichloroethene, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,2-Dichloropropane, Solid*	5.7	U		1.1	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Bromodichloromethane, Solid*	5.7	U		1.1	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	cis-1,3-Dichloropropene, Solid*	5.7	U		1.1	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	4-Methyl-2-pentanone (MIBK), Solid*	11	U		1.1	11	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Toluene, Solid*	5.7	U		1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231912

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-041-SO  
 Date Sampled.....: 11/11/2004  
 Time Sampled.....: 15:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231912-30  
 Date Received.....: 11/12/2004  
 Time Received.....: 09:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	trans-1,3-Dichloropropene, Solid*	5.7	U	0.90	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,1,2-Trichloroethane, Solid*	5.7	U	1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Tetrachloroethene, Solid*	5.7	U	1.4	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	2-Hexanone, Solid*	11	U	1.3	11	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Dibromochloromethane, Solid*	5.7	U	0.90	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,2-Dibromoethane (EDB), Solid*	5.7	U	0.94	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Chlorobenzene, Solid*	5.7	U	1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Ethylbenzene, Solid*	5.7	U	1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	m&p-Xylenes, Solid*	11	U	2.6	11	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	o-Xylene, Solid*	5.7	U	1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Styrene, Solid*	5.7	U	1.3	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Bromoform, Solid*	5.7	U	0.86	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,1,2,2-Tetrachloroethane, Solid*	5.7	U	1.1	5.7	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	1,2-Dichloroethene (total), Solid*	11	U	2.4	11	1.00000	ug/Kg	134342		11/12/04 1714	jdj
	Xylenes (total), Solid*	11	U	3.9	11	1.00000	ug/Kg	134342		11/12/04 1714	jdj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 232169 Date: 12/14/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 AOCs ATTN: Eric Ellis

Customer Sample ID: LL7ss-042M-S0  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 15:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-5  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	90.3			0.10	0.10	1	%	135125		11/22/04 1401	daj
	% Moisture, Solid	9.7			0.10	0.10	1	%	135125		11/22/04 1401	daj
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	1.2		B	0.62	2.2	1	mg/Kg	135715		11/30/04 1213	kd

\* In Description = Dry Wgt.

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Job Number: 232169		LABORATORY TEST RESULTS					Date: 12/10/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE BVAAP 14 AOC5			ATTN: Eric Ellis						
Customer Sample ID: LL7ss-042M-S0 Date Sampled.....: 11/18/2004 Time Sampled.....: 15:45 Sample Matrix.....: Soil			Laboratory Sample ID: 232169-5 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
Method	% Solids Determination											
	% Solids, Solid	90.3		0.10	0.10	1	%	135125		11/22/04 1401	daj	
	% Moisture, Solid	9.7		0.10	0.10	1	%	135125		11/22/04 1401	daj	
7041	Antimony (GFAA) Antimony, Solid*	0.64	B	0.46	1.5	1	mg/Kg	135375		11/23/04 2323	daj	
7841	Thallium (GFAA) Thallium, Solid*	0.63	U	0.20	0.63	1	mg/Kg	135426		11/24/04 0250	daj	
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.050		0.0022	0.018	1	mg/Kg	135976		12/02/04 1403	gok	
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000		2.5	16	1	mg/Kg	135758		12/01/04 0237	tds	
	Barium, Solid*	110		0.17	1.1	1	mg/Kg	135758		12/01/04 0237	tds	
	Arsenic, Solid*	9.3		0.54	1.6	1	mg/Kg	135758		12/01/04 0237	tds	
	Beryllium, Solid*	0.89		0.046	0.42	1	mg/Kg	135758		12/01/04 0237	tds	
	Cadmium, Solid*	0.26	U	0.085	0.26	1	mg/Kg	135758		12/01/04 0237	tds	
	Calcium, Solid*	360		3.3	11	1	mg/Kg	135758		12/01/04 0237	tds	
	Chromium, Solid*	21		0.23	1.1	1	mg/Kg	135758		12/01/04 0237	tds	
	Cobalt, Solid*	13		0.15	0.53	1	mg/Kg	135758		12/01/04 0237	tds	
	Copper, Solid*	11		0.95	3.2	1	mg/Kg	135758		12/01/04 0237	tds	
	Iron, Solid*	20000		3.2	11	1	mg/Kg	135758		12/01/04 0237	tds	
	Magnesium, Solid*	2100		1.8	11	1	mg/Kg	135758		12/01/04 0237	tds	
	Manganese, Solid*	1500		0.14	1.1	1	mg/Kg	135758		12/01/04 0237	tds	
	Nickel, Solid*	20		0.26	1.1	1	mg/Kg	135758		12/01/04 0237	tds	
	Lead, Solid*	25		0.45	1.6	1	mg/Kg	135758		12/01/04 0237	tds	
	Potassium, Solid*	980		15	53	1	mg/Kg	135758		12/01/04 0237	tds	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 232169								Date: 12/10/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL7ss-042M-S0						Laboratory Sample ID: 232169-5						
Date Sampled.....: 11/18/2004						Date Received.....: 11/20/2004						
Time Sampled.....: 15:45						Time Received.....: 09:00						
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NCL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.64	B		0.42	1.6	1	mg/Kg	135758		12/01/04 0237	tds
	Silver, Solid*	1.1	U		0.33	1.1	1	mg/Kg	135758		12/01/04 0237	tds
	Sodium, Solid*	290	B		92	320	1	mg/Kg	135758		12/01/04 0237	tds
	Vanadium, Solid*	23			0.22	1.1	1	mg/Kg	135758		12/01/04 0237	tds
	Zinc, Solid*	58			0.42	2.1	1	mg/Kg	135758		12/01/04 0237	tds

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 232169

Date: 12/03/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 ADDS

ATTN: Eric Ellis

Customer Sample ID: LL7ss-042M-SO  
 Date Sampled.....: 11/18/2004  
 Time Sampled.....: 15:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232169-5  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

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	0.20	U		0.056	0.20	1.0000	mg/Kg	136083		12/01/04 1756	san
	RDX, Solid	0.20	U		0.062	0.20	1.0000	mg/Kg	136083		12/01/04 1756	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.032	0.099	1.0000	mg/Kg	136083		12/01/04 1756	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.0000	mg/Kg	136083		12/01/04 1756	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.0000	mg/Kg	136083		12/01/04 1756	san
	2,4,6-TNT, Solid	0.099	U		0.023	0.099	1.0000	mg/Kg	136083		12/01/04 1756	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.0000	mg/Kg	136083		12/01/04 1756	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.0000	mg/Kg	136083		12/01/04 1756	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.0000	mg/Kg	136083		12/01/04 1756	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.0000	mg/Kg	136083		12/01/04 1756	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.0000	mg/Kg	136083		12/01/04 1756	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.0000	mg/Kg	136083		12/01/04 1756	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.0000	mg/Kg	136083		12/01/04 1756	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.0000	mg/Kg	136083		12/01/04 1756	san
8332M	NG/PETN by 8332M (HPLC)											
	Nitroglycerine, Solid	0.50	U		0.12	0.50	1.0000	mg/Kg	136089		12/02/04 0143	bdw

\* In Description = Dry Wgt.

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STL CHICAGO

Client Sample ID: LL7ss-042M-50

Trace Level Organic Compounds

Matrix.....: SOLID

Lot-Sample #....: G4K200229-007    Work Order #....: GXJJA1AA  
Date Sampled....: 11/18/04 15:45    Date Received...: 11/20/04  
Prep Date.....: 12/02/04    Analysis Date...: 12/05/04  
Prep Batch #....: 4336497  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: LF7SS-042M-SO

General Chemistry

Lot-Sample #...: G4K200229-007      Work Order #...: GXJJA      Matrix.....: SOLID  
Date Sampled...: 11/18/04      Date Received...: 11/20/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
Nitrocellulose	1.6 B,J	2.0	mg/kg	MCAHW 353.2	ANALYSIS DATE	BATCH #
			MDL.....: 0.57		12/02-12/04/04	4336499

NOTE(S) :

- RL Reporting Limit
- B Estimated result. Result is less than RL.
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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LABORATORY TEST RESULTS

Job Number: Z31542

Date: 11/12/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOGS

ATTN: Eric Ellits

Customer Sample ID: LL8ss-001M-S0  
 Date Sampled.....: 10/27/2004  
 Time Sampled.....: 15:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: Z31542-12  
 Date Received.....: 10/30/2004  
 Time Received.....: 11:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	98.1		0.10	0.10	1	%	132836		11/01/04 1428	daj
	% Moisture, Solid	1.9		0.10	0.10	1	%	132836		11/01/04 1428	daj
7041	Antimony (GFAA) Antimony, Solid*	1.4	U	0.43	1.4	1	mg/Kg	133349		11/04/04 2343	daj
7841	Thallium (GFAA) Thallium, Solid*	0.20	B	0.19	0.59	1	mg/Kg	133347		11/04/04 1922	gok
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.040		0.0044	0.017	1	mg/Kg	133337		11/04/04 1537	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	9100		2.3	14	1	mg/Kg	133493		11/06/04 1555	tds
	Barium, Solid*	150		0.15	0.95	1	mg/Kg	133493		11/06/04 1555	tds
	Arsenic, Solid*	12		0.49	1.4	1	mg/Kg	133493		11/06/04 1555	tds
	Beryllium, Solid*	0.68		0.042	0.38	1	mg/Kg	133493		11/06/04 1555	tds
	Cadmium, Solid*	0.24	U	0.076	0.24	1	mg/Kg	133493		11/06/04 1555	tds
	Calcium, Solid*	8100		3.0	9.5	1	mg/Kg	133493		11/06/04 1555	tds
	Chromium, Solid*	26	H	0.21	0.95	1	mg/Kg	133493		11/06/04 1555	tds
	Cobalt, Solid*	7.9		0.13	0.48	1	mg/Kg	133493		11/06/04 1555	tds
	Copper, Solid*	23		0.86	2.9	1	mg/Kg	133493		11/06/04 1555	tds
	Iron, Solid*	19000		2.9	9.5	1	mg/Kg	133493		11/06/04 1555	tds
	Magnesium, Solid*	2500	H	1.6	9.5	1	mg/Kg	133493		11/06/04 1555	tds
	Manganese, Solid*	500		0.12	0.95	1	mg/Kg	133493		11/06/04 1555	tds
	Nickel, Solid*	20		0.24	0.95	1	mg/Kg	133493		11/06/04 1555	tds
	Lead, Solid*	88		0.41	1.4	1	mg/Kg	133493		11/06/04 1555	tds
	Potassium, Solid*	1100		13	48	1	mg/Kg	133493		11/06/04 1555	tds

\* In Description = Dry Wgt.





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Job Number: 231542		LABORATORY TEST RESULTS					Date: 11/13/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL8ss-001M-S0			Laboratory Sample ID: 231542-12									
Date Sampled.....: 10/27/2004			Date Received.....: 10/30/2004									
Time Sampled.....: 15:30			Time Received.....: 11:15									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	134214		11/13/04 0229	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134214		11/13/04 0229	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	134214		11/13/04 0229	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134214		11/13/04 0229	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134214		11/13/04 0229	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	134214		11/13/04 0229	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134214		11/13/04 0229	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134214		11/13/04 0229	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134214		11/13/04 0229	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134214		11/13/04 0229	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134214		11/13/04 0229	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134214		11/13/04 0229	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134214		11/13/04 0229	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134214		11/13/04 0229	san

\* In Description = Dry Wgt.

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Job Number: 231542		LABORATORY TEST RESULTS						Date: 11/12/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-002M-S0 Date Sampled.....: 10/27/2004 Time Sampled.....: 14:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231542-3 Date Received.....: 10/30/2004 Time Received.....: 11:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.9			0.10	0.10	1	%	132836		11/01/04 1406	daj
	% Moisture, Solid	1.1			0.10	0.10	1	%	132836		11/01/04 1406	daj
7041	Antimony (GFAA) Antimony, Solid*	1.3		U	0.40	1.3	1	mg/Kg	133349		11/04/04 2121	daj
7841	Thallium (GFAA) Thallium, Solid*	0.55		U	0.17	0.55	1	mg/Kg	133347		11/04/04 1523	gok
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.061			0.0043	0.017	1	mg/Kg	133337		11/04/04 1504	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	4900			2.3	14	1	mg/Kg	133493		11/06/04 1401	tds
	Barium, Solid*	140			0.15	0.96	1	mg/Kg	133493		11/06/04 1401	tds
	Arsenic, Solid*	4.3			0.49	1.4	1	mg/Kg	133493		11/06/04 1401	tds
	Beryllium, Solid*	0.85			0.042	0.39	1	mg/Kg	133493		11/06/04 1401	tds
	Cadmium, Solid*	1.4			0.077	0.24	1	mg/Kg	133493		11/06/04 1401	tds
	Calcium, Solid*	110000		H	15	48	5	mg/Kg	133604		11/08/04 1350	tds
	Chromium, Solid*	36			0.21	0.96	1	mg/Kg	133493		11/06/04 1401	tds
	Cobalt, Solid*	3.5			0.13	0.48	1	mg/Kg	133493		11/06/04 1401	tds
	Copper, Solid*	67			0.87	2.9	1	mg/Kg	133493		11/06/04 1401	tds
	Iron, Solid*	11000		H	2.9	9.6	1	mg/Kg	133493		11/06/04 1401	tds
	Magnesium, Solid*	2800			1.6	9.6	1	mg/Kg	133493		11/06/04 1401	tds
	Manganese, Solid*	690			0.13	0.96	1	mg/Kg	133493		11/06/04 1401	tds
	Nickel, Solid*	24			0.24	0.96	1	mg/Kg	133493		11/06/04 1401	tds
	Lead, Solid*	89			0.41	1.4	1	mg/Kg	133493		11/06/04 1401	tds
	Potassium, Solid*	770			13	48	1	mg/Kg	133493		11/06/04 1401	tds

\* In Description = Dry Wgt.

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Job Number: 231542		LABORATORY TEST RESULTS						Date: 11/12/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOGS				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-002M-S0 Date Sampled.....: 10/27/2004 Time Sampled.....: 14:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231542-3 Date Received.....: 10/30/2004 Time Received.....: 11:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	RDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
	Selenium, Solid*	0.75	B	0.39	1.4	1	mg/Kg	133493		11/06/04 1401	tds	
	Silver, Solid*	0.96	U	0.30	0.96	1	mg/Kg	133493		11/06/04 1401	tds	
	Sodium, Solid*	340		83	290	1	mg/Kg	133493		11/06/04 1401	tds	
	Vanadium, Solid*	7.3		0.20	0.96	1	mg/Kg	133493		11/06/04 1401	tds	
	Zinc, Solid*	140		0.39	1.9	1	mg/Kg	133493		11/06/04 1401	tds	

\* In Description = Dry Wgt.

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Job Number: 231542 LABORATORY TEST RESULTS Date: 11/13/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USAGE RVAAP 14 AGES ATTN: Eric Ellis

Customer Sample ID: LL8ss-002M-50  
 Date Sampled.....: 10/27/2004  
 Time Sampled.....: 14:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231542-3  
 Date Received.....: 10/30/2004  
 Time Received.....: 11:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.055	0.20	1.00000	mg/Kg	134214		11/12/04 1959	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134214		11/12/04 1959	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	134214		11/12/04 1959	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	134214		11/12/04 1959	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	134214		11/12/04 1959	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	134214		11/12/04 1959	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	134214		11/12/04 1959	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	134214		11/12/04 1959	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134214		11/12/04 1959	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134214		11/12/04 1959	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	134214		11/12/04 1959	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134214		11/12/04 1959	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134214		11/12/04 1959	san
	3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	134214		11/12/04 1959	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231542

Date: 11/12/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-003M-S0  
 Date Sampled.....: 10/27/2004  
 Time Sampled.....: 14:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231542-16  
 Date Received.....: 10/30/2004  
 Time Received.....: 11:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	94.6		0.10	0.10	1	%	132836		11/01/04 1432	daj
	% Moisture, Solid	5.4		0.10	0.10	1	%	132836		11/01/04 1432	daj
7041	Antimony (GFAA) Antimony, Solid*	1.5	U	0.46	1.5	1	mg/Kg	133349		11/05/04 0003	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63	U	0.20	0.63	1	mg/Kg	133347		11/04/04 2001	gok
7471A	Mercury (CYAA) Solids Mercury, Solid*	0.032		0.0045	0.017	1	mg/Kg	133337		11/04/04 1546	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	16000		4.9	30	2	mg/Kg	133790		11/09/04 0350	tds
	Barium, Solid*	180		0.32	2.0	2	mg/Kg	133790		11/09/04 0350	tds
	Arsenic, Solid*	7.3		1.0	3.0	2	mg/Kg	133790		11/09/04 0350	tds
	Beryllium, Solid*	4.3		0.089	0.81	2	mg/Kg	133790		11/09/04 0350	tds
	Cadmium, Solid*	0.99		0.16	0.51	2	mg/Kg	133790		11/09/04 0350	tds
	Calcium, Solid*	83000	H	6.3	20	2	mg/Kg	133790		11/09/04 0350	tds
	Chromium, Solid*	39		0.45	2.0	2	mg/Kg	133790		11/09/04 0350	tds
	Cobalt, Solid*	2.6		0.28	1.0	2	mg/Kg	133790		11/09/04 0350	tds
	Copper, Solid*	18		1.8	6.1	2	mg/Kg	133790		11/09/04 0350	tds
	Iron, Solid*	10000	H	6.1	20	2	mg/Kg	133790		11/09/04 0350	tds
	Magnesium, Solid*	12000		3.4	20	2	mg/Kg	133790		11/09/04 0350	tds
	Manganese, Solid*	2400		0.26	2.0	2	mg/Kg	133790		11/09/04 0350	tds
	Nickel, Solid*	21		0.51	2.0	2	mg/Kg	133790		11/09/04 0350	tds
	Lead, Solid*	120		0.87	3.0	2	mg/Kg	133790		11/09/04 0350	tds
	Potassium, Solid*	1100		28	100	2	mg/Kg	133790		11/09/04 0350	tds

\* In Description = Dry Wgt.

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Job Number: 231542 LABORATORY TEST RESULTS Date: 11/12/2004

CUSTOMER: MKN Engineers, Inc. PROJECT: USAGE RVAAP 14 ADDS ATTN: Eric Ellis

Customer Sample ID: LL8ss-003M-S0 Laboratory Sample ID: 231542-16  
 Date Sampled.....: 10/27/2004 Date Received.....: 10/30/2004  
 Time Sampled.....: 14:30 Time Received.....: 11:15  
 Sample Matrix.....: Soil

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.4	B		0.81	3.0	2	mg/Kg	133790		11/09/04 0350	tds
	Silver, Solid*	2.0	U		0.63	2.0	2	mg/Kg	133790		11/09/04 0350	tds
	Sodium, Solid*	1700			180	610	2	mg/Kg	133790		11/09/04 0350	tds
	Vanadium, Solid*	12			0.43	2.0	2	mg/Kg	133790		11/09/04 0350	tds
	Zinc, Solid*	150			0.81	4.1	2	mg/Kg	133790		11/09/04 0350	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231542				Date: 11/13/2004								
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 16 ADDS				ATTN: Eric Ellis				
Customer Sample ID: LL8ss-003M-S0 Date Sampled.....: 10/27/2004 Time Sampled.....: 14:30 Sample Matrix.....: Soil						Laboratory Sample ID: 231542-16 Date Received.....: 10/30/2004 Time Received.....: 11:15						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	134214		11/13/04 0334	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	134214		11/13/04 0334	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	134214		11/13/04 0334	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134214		11/13/04 0334	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	134214		11/13/04 0334	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134214		11/13/04 0334	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134214		11/13/04 0334	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	134214		11/13/04 0334	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134214		11/13/04 0334	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	134214		11/13/04 0334	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	134214		11/13/04 0334	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134214		11/13/04 0334	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134214		11/13/04 0334	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134214		11/13/04 0334	san

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231579

Date: 11/16/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYANP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-004M-S0  
 Date Sampled.....: 10/29/2004  
 Time Sampled.....: 11:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231579-4  
 Date Received.....: 11/02/2004  
 Time Received.....: 08:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.7			0.10	0.10	1	%	132968		11/02/04 2203	clb
	% Moisture, Solid	1.3			0.10	0.10	1	%	132968		11/02/04 2203	clb
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.42	1.4	1	mg/Kg	133656		11/08/04 1129	daj
7841	Thallium (GFAA) Thallium, Solid*	0.58		U	0.18	0.58	1	mg/Kg	133645		11/08/04 2011	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.050			0.0044	0.017	1	mg/Kg	133601		11/08/04 1458	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	3400			2.0	13	1	mg/Kg	133744		11/09/04 1627	tds
	Barium, Solid*	110			0.13	0.84	1	mg/Kg	133744		11/09/04 1627	tds
	Arsenic, Solid*	6.5			0.43	1.3	1	mg/Kg	133744		11/09/04 1627	tds
	Beryllium, Solid*	0.47			0.037	0.34	1	mg/Kg	133744		11/09/04 1627	tds
	Cadmium, Solid*	2.8			0.067	0.21	1	mg/Kg	133744		11/09/04 1627	tds
	Calcium, Solid*	150000			13	42	5	mg/Kg	133922		11/10/04 1708	tds
	Chromium, Solid*	14			0.18	0.84	1	mg/Kg	133744		11/09/04 1627	tds
	Cobalt, Solid*	4.2			0.12	0.42	1	mg/Kg	133744		11/09/04 1627	tds
	Copper, Solid*	30			0.76	2.5	1	mg/Kg	133744		11/09/04 1627	tds
	Iron, Solid*	11000		H	2.5	8.4	1	mg/Kg	133744		11/09/04 1627	tds
	Magnesium, Solid*	2100			1.4	8.4	1	mg/Kg	133744		11/09/04 1627	tds
	Manganese, Solid*	500			0.11	0.84	1	mg/Kg	133744		11/09/04 1627	tds
	Nickel, Solid*	17			0.21	0.84	1	mg/Kg	133744		11/09/04 1627	tds
	Lead, Solid*	210			0.36	1.3	1	mg/Kg	133744		11/09/04 1627	tds
	Potassium, Solid*	760			12	42	1	mg/Kg	133744		11/09/04 1627	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231579

Date: 11/16/2004

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-004M-S0  
 Date Sampled.....: 10/29/2004  
 Time Sampled.....: 11:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231579-4  
 Date Received.....: 11/02/2004  
 Time Received.....: 08:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.93	B		0.34	1.3	1					
	Silver, Solid*	0.84	U		0.26	0.84	1	mg/Kg	133744		11/09/04 1627	tds
	Sodium, Solid*	190	B		73	250	1	mg/Kg	133744		11/09/04 1627	tds
	Vanadium, Solid*	6.7			0.18	0.84	1	mg/Kg	133744		11/09/04 1627	tds
	Zinc, Solid*	220			0.34	1.7	1	mg/Kg	133744		11/09/04 1627	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231579

Date: 11/15/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USACE RYANP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL8ss-004M-S0  
 Date Sampled.....: 10/29/2004  
 Time Sampled.....: 11:35  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231579-4  
 Date Received.....: 11/02/2004  
 Time Received.....: 08:40

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	0.20	U		0.056	0.20	1.00000	mg/Kg	134334		11/04/04 2251	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134334		11/04/04 2251	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.032	0.099	1.00000	mg/Kg	134334		11/04/04 2251	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134334		11/04/04 2251	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134334		11/04/04 2251	san
	2,4,6-TNT, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134334		11/04/04 2251	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	134334		11/04/04 2251	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134334		11/04/04 2251	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134334		11/04/04 2251	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134334		11/04/04 2251	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134334		11/04/04 2251	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134334		11/04/04 2251	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134334		11/04/04 2251	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134334		11/04/04 2251	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005M-S0  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-18  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	86.3			0.10	0.10	1	%	133223		11/04/04 2142	clb
	% Moisture, Solid	13.7			0.10	0.10	1	%	133223		11/04/04 2142	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.49	1.5	1	mg/Kg	133656		11/09/04 0406	daj
7841	Thallium (GFAA) Thallium, Solid*	0.66		U	0.21	0.66	1	mg/Kg	134082		11/10/04 2226	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.028			0.0050	0.019	1	mg/Kg	133831		11/09/04 1617	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	15000			2.6	17	1	mg/Kg	133922		11/10/04 1529	tds
	Barium, Solid*	260			0.18	1.1	1	mg/Kg	133922		11/10/04 1529	tds
	Arsenic, Solid*	4.0			0.56	1.7	1	mg/Kg	133922		11/10/04 1529	tds
	Beryllium, Solid*	3.5			0.048	0.44	1	mg/Kg	133922		11/10/04 1529	tds
	Cadmium, Solid*	1.4			0.088	0.28	1	mg/Kg	133922		11/10/04 1529	tds
	Calcium, Solid*	180000			17	55	5	mg/Kg	134203		11/12/04 1814	tds
	Chromium, Solid*	35			0.24	1.1	1	mg/Kg	133922		11/10/04 1529	tds
	Cobalt, Solid*	2.3			0.15	0.55	1	mg/Kg	133922		11/10/04 1529	tds
	Copper, Solid*	24			0.99	3.3	1	mg/Kg	133922		11/10/04 1529	tds
	Iron, Solid*	9600			3.3	11	1	mg/Kg	133922		11/10/04 1529	tds
	Magnesium, Solid*	13000			1.9	11	1	mg/Kg	133922		11/10/04 1529	tds
	Manganese, Solid*	1800			0.14	1.1	1	mg/Kg	133922		11/10/04 1529	tds
	Nickel, Solid*	17			0.28	1.1	1	mg/Kg	133922		11/10/04 1529	tds
	Lead, Solid*	110			0.47	1.7	1	mg/Kg	133922		11/10/04 1529	tds
	Potassium, Solid*	1300			15	55	1	mg/Kg	133922		11/10/04 1529	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MCK Engineers, Inc.			PROJECT: USACE RVAAP T4 AGGS				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-005M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 10:20 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-18 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.2	B		0.44	1.7	1	mg/Kg	133922		11/10/04 1529	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	133922		11/10/04 1529	tds
	Sodium, Solid*	930			96	330	1	mg/Kg	133922		11/10/04 1529	tds
	Vanadium, Solid*	9.4			0.23	1.1	1	mg/Kg	133922		11/10/04 1529	tds
	Zinc, Solid*	160			0.44	2.2	1	mg/Kg	133922		11/10/04 1529	tds

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231611 Date: 11/28/2004

CUSTOMER: MKM Engineers, Inc. ATTN: Eric Ellis

PROJECT: USACE RVAAP 14 ACOS

Customer Sample ID: LL8ss-005M-SD  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-18  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	QT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.9	U		0.18	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	beta-BHC, 3541 Solid*	2.7	U		0.17	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	delta-BHC, 3541 Solid*	1.9	U		0.12	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	gamma-BHC (Lindane), 3541 Solid*	1.9	U		0.26	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Heptachlor, 3541 Solid*	1.9	U		0.20	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Aldrin, 3541 Solid*	1.9	U		0.15	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Heptachlor epoxide, 3541 Solid*	1.9	U		0.16	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Endosulfan I, 3541 Solid*	1.9	U		0.30	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Dieldrin, 3541 Solid*	1.9	U		0.38	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	4,4'-DDE, 3541 Solid*	2.2	U		0.73	2.2	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Endrin, 3541 Solid*	1.9	U		0.48	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Endosulfan II, 3541 Solid*	1.9	U		0.31	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	4,4'-DDD, 3541 Solid*	1.9	U		0.40	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Endosulfan sulfate, 3541 Solid*	1.9	U		0.32	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	4,4'-DDT, 3541 Solid*	1.9	U		0.41	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Methoxychlor, 3541 Solid*	9.3	U		2.6	9.3	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	alpha-Chlordane, 3541 Solid*	1.9	U		0.13	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	gamma-Chlordane, 3541 Solid*	1.9	U		0.17	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Endrin aldehyde, 3541 Solid*	1.9	U		0.37	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Endrin ketone, 3541 Solid*	1.9	U		0.32	1.9	1.00000	ug/Kg	135505		11/24/04 1259	pjg
	Toxaphene, 3541 Solid*	19	U		5.1	19	1.00000	ug/Kg	135505		11/24/04 1259	pjg
Method	% Solids Determination											
	% Solids, Solid	86.3			0.10	0.10	1	%	133223		11/04/04 2142	clb
	% Moisture, Solid	13.7			0.10	0.10	1	%	133223		11/04/04 2142	clb

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/24/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs				ATTN: Eric Ellis						
Customer Sample ID: LL8ss-005M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 10:20 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-18 Date Received.....: 11/03/2004 Time Received.....: 09:10										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
8082	PCB Analysis												
	Aroclor 1016, 3541 Solid*	37	U		9.9	37	1.00000	ug/Kg	135460		11/23/04 0713	bjt	
	Aroclor 1221, 3541 Solid*	37	U		5.1	37	1.00000	ug/Kg	135460		11/23/04 0713	bjt	
	Aroclor 1232, 3541 Solid*	19	U		5.0	19	1.00000	ug/Kg	135460		11/23/04 0713	bjt	
	Aroclor 1242, 3541 Solid*	37	U		5.5	37	1.00000	ug/Kg	135460		11/23/04 0713	bjt	
	Aroclor 1248, 3541 Solid*	19	U		4.1	19	1.00000	ug/Kg	135460		11/23/04 0713	bjt	
	Aroclor 1254, 3541 Solid*	19	J		5.0	37	1.00000	ug/Kg	135460		11/23/04 0713	bjt	
	Aroclor 1260, 3541 Solid*	37	U		14	37	1.00000	ug/Kg	135460		11/23/04 0713	bjt	
Method	% Solids Determination												
	% Solids, Solid	86.3			0.10	0.10	1	%	133223		11/04/04 2142	clb	
	% Moisture, Solid	13.7			0.10	0.10	1	%	133223		11/04/04 2142	clb	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231579

Date: 11/16/2004

CUSTOMER: MKN Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005D-S0  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231579-20  
 Date Received.....: 11/02/2004  
 Time Received.....: 08:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	75.7			0.10	0.10	1	%	132968		11/02/04 2259	clb
	% Moisture, Solid	24.3			0.10	0.10	1	%	132968		11/02/04 2259	clb
8260B	Volatile Organics											
	Chloromethane, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Vinyl chloride, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Bromomethane, Solid*	6.6	U		1.7	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Chloroethane, Solid*	6.6	U		1.3	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,1-Dichloroethene, Solid*	6.6	U		1.7	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Carbon disulfide, Solid*	6.6	U		1.6	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Acetone, Solid*	20	U		6.1	20	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Methylene chloride, Solid*	13	U		3.8	13	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	trans-1,2-Dichloroethene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,1-Dichloroethane, Solid*	6.6	U		1.3	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	cis-1,2-Dichloroethene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	2-Butanone (MEK), Solid*	20	U		5.2	20	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Bromochloromethane, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Chloroform, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,1,1-Trichloroethane, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Carbon tetrachloride, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Benzene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,2-Dichloroethane, Solid*	6.6	U		1.2	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Trichloroethene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,2-Dichloropropane, Solid*	6.6	U		1.3	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Bromodichloromethane, Solid*	6.6	U		1.3	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	cis-1,3-Dichloropropene, Solid*	6.6	U		1.2	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	4-Methyl-2-pentanone (MIBK), Solid*	13	U		1.3	13	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Toluene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231579

Date: 11/16/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL8ss-0050-S0  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231579-20  
 Date Received.....: 11/02/2004  
 Time Received.....: 08:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	U	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	trans-1,3-Dichloropropene, Solid*	6.6	U		1.0	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,1,2-Trichloroethane, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Tetrachloroethene, Solid*	6.6	U		1.6	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	2-Hexanone, Solid*	13	U		1.5	13	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Dibromochloromethane, Solid*	6.6	U		1.0	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,2-Dibromoethane (EDB), Solid*	6.6	U		1.1	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Chlorobenzene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Ethylbenzene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	m&p-Xylenes, Solid*	13	U		3.0	13	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	o-Xylene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Styrene, Solid*	6.6	U		1.5	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Bromoform, Solid*	6.6	U		0.99	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,1,2,2-Tetrachloroethane, Solid*	6.6	U		1.3	6.6	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	1,2-Dichloroethene (total), Solid*	13	U		2.8	13	1.00000	ug/Kg	133782		11/09/04 2103	jdj
	Xylenes (total), Solid*	13	U		4.5	13	1.00000	ug/Kg	133782		11/09/04 2103	jdj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005M-S0  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-18  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, 3541 Low Solid*	180	U		7.8	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	74	U		9.8	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	180	U		16	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Benzyl alcohol, 3541 Low Solid*	740	U		81	740	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	74	U		12	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	74	U		15	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Hexachloroethane, 3541 Low Solid*	180	U		9.5	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	74	U		13	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2-Chlorophenol, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Nitrobenzene, 3541 Low Solid*	36	U		9.5	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	74	U		9.7	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Benzoic acid, 3541 Low Solid*	740	U	*	220	740	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Isophorone, 3541 Low Solid*	180	U		22	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	360	U		18	360	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Hexachlorobutadiene, 3541 Low Solid*	180	U		9.9	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Naphthalene, 3541 Low Solid*	59	U		9.2	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	360	U		17	360	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	4-Chloroaniline, 3541 Low Solid*	740	U		59	740	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	180	U		41	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	360	U		49	360	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		340	1100	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2-Methylnaphthalene, 3541 Low Solid*	86	U		11	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2-Nitroaniline, 3541 Low Solid*	180	U		12	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2-Chloronaphthalene, 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005M-SO  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-18  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	360	U		38	360	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	36	U		10	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2-Nitrophenol, 3541 Low Solid*	360	U		16	360	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	3-Nitroaniline, 3541 Low Solid*	740	U		150	740	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Dimethyl phthalate, 3541 Low Solid*	74	U		9.8	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	740	U		110	740	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Acenaphthylene, 3541 Low Solid*	10	J		9.1	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Acenaphthene, 3541 Low Solid*	36	U		9.1	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Dibenzofuran, 3541 Low Solid*	25	J		9.7	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	4-Nitrophenol, 3541 Low Solid*	740	U		230	740	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Fluorene, 3541 Low Solid*	36	U		9.9	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	4-Nitroaniline, 3541 Low Solid*	740	U		49	740	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	4-Bromophenyl phenyl ether, 3541 Low Solid*	180	U		11	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Hexachlorobenzene, 3541 Low Solid*	36	U		10	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Diethyl phthalate, 3541 Low Solid*	74	U		10	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Solid*	180	U		11	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Pentachlorophenol, 3541 Low Solid*	360	U		120	360	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Solid*	740	U		190	740	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Phenanthrene, 3541 Low Solid*	120	J		17	55	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Anthracene, 3541 Low Solid*	18	J		12	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Carbazole, 3541 Low Solid*	180	U		13	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	33	J		13	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Fluoranthene, 3541 Low Solid*	170	J	H	12	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Pyrene, 3541 Low Solid*	130	U		13	55	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	74	U		11	74	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Benzo(a)anthracene, 3541 Low Solid*	82			11	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk
	Chrysene, 3541 Low Solid*	110			12	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005M-S0  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-18  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
Method	3,3-Dichlorobenzidine, 3541 Low Solid*	180	U		16	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	180	U		35	180	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	Di-n-octyl phthalate, 3541 Low Solid*	360	U		11	360	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	Benzo(b)fluoranthene, 3541 Low Solid*	170			9.8	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	Benzo(k)fluoranthene, 3541 Low Solid*	88		M	10	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	Benzo(a)pyrene, 3541 Low Solid*	120			10	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	54			11	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	Dibenzo(a,h)anthracene, 3541 Low Solid*	15		J	10	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	Benzo(ghi)perylene, 3541 Low Solid*	60			12	36	1.00000	ug/Kg	135522		11/25/04 0205	dpk	
	% Solids Determination												
	% Solids, Solid		86.3			0.10	0.10	1	%	133223		11/04/04 2142	clb
	% Moisture, Solid		13.7			0.10	0.10	1	%	133223		11/04/04 2142	clb

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/17/2004

CUSTOMER: HKW Engineers, Inc.

PROJECT: USAGE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005M-SO  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-18  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

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	0.20	U		0.056	0.20	1.00000	mg/Kg	134567		11/07/04 0257	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	134567		11/07/04 0257	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	134567		11/07/04 0257	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	134567		11/07/04 0257	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	134567		11/07/04 0257	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134567		11/07/04 0257	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134567		11/07/04 0257	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	134567		11/07/04 0257	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134567		11/07/04 0257	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134567		11/07/04 0257	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	134567		11/07/04 0257	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134567		11/07/04 0257	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134567		11/07/04 0257	san
3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134567		11/07/04 0257	san	
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	134573		11/09/04 1828	san	

\* In Description = Dry Wgt.

STL CHICAGO  
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Client Sample ID: ~~IANFSS~~-005M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K030251-005    Work Order #....: GV5W11AA    Matrix.....: SOLID  
Date Sampled....: 11/01/04 10:20    Date Received...: 11/03/04  
Prep Date.....: 11/08/04    Analysis Date...: 11/10/04  
Prep Batch #....: 4313426  
Dilution Factor: 1    Initial Wgt/Vol: 2 g    Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND	0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: <sup>48</sup>INWSS-005M-SO

General Chemistry

Lot-Sample #...: G4K030251-005  
Date Sampled...: 11/01/04

Work Order #...: GV5W1  
Date Received...: 11/03/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	2.2	2.0	mg/kg	MCAWW 353.2	11/09-11/12/04	4314547
			MDL.....: 0.57			

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKN Engineers, Inc.			PROJECT: USACE RYANAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LLBss-005M-DUP Date Sampled.....: 11/01/2004 Time Sampled.....: 10:20 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-25 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	86.6			0.10	0.10	1	%	133222		11/04/04 2020	clb
	% Moisture, Solid	13.4			0.10	0.10	1	%	133222		11/04/04 2020	clb
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.50	1.6	1	mg/Kg	133763		11/09/04 1949	daj
7841	Thallium (GFAA) Thallium, Solid*	0.68		U	0.22	0.68	1	mg/Kg	134082		11/11/04 0046	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.041			0.0050	0.019	1	mg/Kg	133831		11/09/04 1642	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	15000			2.6	16	1	mg/Kg	133922		11/10/04 1702	tds
	Barium, Solid*	220			0.17	1.1	1	mg/Kg	133922		11/10/04 1702	tds
	Arsenic, Solid*	4.3			0.55	1.6	1	mg/Kg	133922		11/10/04 1702	tds
	Beryllium, Solid*	3.5			0.047	0.43	1	mg/Kg	133922		11/10/04 1702	tds
	Cadmium, Solid*	1.4			0.086	0.27	1	mg/Kg	133922		11/10/04 1702	tds
	Calcium, Solid*	180000			17	54	5	mg/Kg	134203		11/12/04 1820	tds
	Chromium, Solid*	36			0.24	1.1	1	mg/Kg	133922		11/10/04 1702	tds
	Cobalt, Solid*	2.4			0.15	0.54	1	mg/Kg	133922		11/10/04 1702	tds
	Copper, Solid*	23			0.97	3.2	1	mg/Kg	133922		11/10/04 1702	tds
	Iron, Solid*	14000			3.2	11	1	mg/Kg	133922		11/10/04 1702	tds
	Magnesium, Solid*	13000			1.8	11	1	mg/Kg	133922		11/10/04 1702	tds
	Manganese, Solid*	1800			0.14	1.1	1	mg/Kg	133922		11/10/04 1702	tds
	Nickel, Solid*	16			0.27	1.1	1	mg/Kg	133922		11/10/04 1702	tds
	Lead, Solid*	110			0.46	1.6	1	mg/Kg	133922		11/10/04 1702	tds
	Potassium, Solid*	1300			15	54	1	mg/Kg	133922		11/10/04 1702	tds

\* In Description = Dry Wgt.



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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVRAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-005M-DUP			Laboratory Sample ID: 231611-25									
Date Sampled.....: 11/01/2004			Date Received.....: 11/03/2004									
Time Sampled.....: 10:20			Time Received.....: 09:10									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.85	B		0.43	1.6	1	mg/Kg	133922		11/10/04 1702	tds
	Silver, Solid*	1.1	U		0.33	1.1	1	mg/Kg	133922		11/10/04 1702	tds
	Sodium, Solid*	930			94	320	1	mg/Kg	133922		11/10/04 1702	tds
	Vanadium, Solid*	10			0.23	1.1	1	mg/Kg	133922		11/10/04 1702	tds
	Zinc, Solid*	170			0.43	2.2	1	mg/Kg	133922		11/10/04 1702	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611 Date: 11/26/2004

CUSTOMER: MKM Engineers, Inc. ATTN: Eric Elfts

PROJECT: USACE RVAAP 14 AGCS

Customer Sample ID: LL8ss-005M-DUP  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-25  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDC	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.8		U	0.17	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	beta-BHC, 3541 Solid*	2.5			0.16	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	delta-BHC, 3541 Solid*	1.8		U	0.12	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	gamma-BHC (Lindane), 3541 Solid*	1.8		U	0.25	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Heptachlor, 3541 Solid*	1.8		U	0.20	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Aldrin, 3541 Solid*	1.8		U	0.14	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Heptachlor epoxide, 3541 Solid*	1.8		U	0.15	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Endosulfan I, 3541 Solid*	1.8		U	0.29	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Dieldrin, 3541 Solid*	1.8		U	0.37	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	4,4'-DDE, 3541 Solid*	2.2		U	0.71	2.2	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Endrin, 3541 Solid*	1.8		U	0.47	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Endosulfan II, 3541 Solid*	1.8		U	0.30	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	4,4'-DDD, 3541 Solid*	1.8		U	0.39	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Endosulfan sulfate, 3541 Solid*	1.8		U	0.31	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	4,4'-DDT, 3541 Solid*	1.8		U	0.40	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Methoxychlor, 3541 Solid*	9.0		U	2.5	9.0	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	alpha-Chlordane, 3541 Solid*	1.8		U	0.13	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	gamma-Chlordane, 3541 Solid*	1.8		U	0.16	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
	Endrin aldehyde, 3541 Solid*	1.8		U	0.36	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg
Endrin ketone, 3541 Solid*	1.8		U	0.31	1.8	1.00000	ug/Kg	135505		11/24/04 1324	pjg	
Toxaphene, 3541 Solid*	18		U	5.0	18	1.00000	ug/Kg	135505		11/24/04 1324	pjg	
Method	% Solids Determination											
	% Solids, Solid	86.6			0.10	0.10	1	%	133222		11/04/04 2020	clb
	% Moisture, Solid	13.4			0.10	0.10	1	%	133222		11/04/04 2020	clb

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: NKK Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-005M-DUP Date Sampled.....: 11/01/2004 Time Sampled.....: 10:20 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-25 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	36	U	9.7	36	1.00000	ug/Kg	135460		11/23/04 0748	bjt	
	Aroclor 1221, 3541 Solid*	36	U	5.0	36	1.00000	ug/Kg	135460		11/23/04 0748	bjt	
	Aroclor 1232, 3541 Solid*	18	U	4.9	18	1.00000	ug/Kg	135460		11/23/04 0748	bjt	
	Aroclor 1242, 3541 Solid*	36	U	5.3	36	1.00000	ug/Kg	135460		11/23/04 0748	bjt	
	Aroclor 1248, 3541 Solid*	18	U	4.0	18	1.00000	ug/Kg	135460		11/23/04 0748	bjt	
	Aroclor 1254, 3541 Solid*	11	J	4.9	36	1.00000	ug/Kg	135460		11/23/04 0748	bjt	
	Aroclor 1260, 3541 Solid*	36	U	14	36	1.00000	ug/Kg	135460		11/23/04 0748	bjt	
Method	% Solids Determination											
	% Solids, Solid	86.6		0.10	0.10	1	%	133222		11/04/04 2020	cLb	
	% Moisture, Solid	13.4		0.10	0.10	1	%	133222		11/04/04 2020	cLb	

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231579

Date: 11/16/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005D-DUP  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231579-17  
 Date Received.....: 11/02/2004  
 Time Received.....: 08:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	78.7			0.10	0.10	1	%	132968		11/02/04 2249	clb
	% Moisture, Solid	21.3			0.10	0.10	1	%	132968		11/02/04 2249	clb
8260B	Volatile Organics											
	Chloromethane, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Vinyl chloride, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Bromomethane, Solid*	6.4	U		1.7	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Chloroethane, Solid*	6.4	U		1.3	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,1-Dichloroethene, Solid*	6.4	U		1.7	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Carbon disulfide, Solid*	6.4	U		1.5	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Acetone, Solid*	19	U		5.8	19	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Methylene chloride, Solid*	13	U		3.7	13	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	trans-1,2-Dichloroethene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,1-Dichloroethane, Solid*	6.4	U		1.3	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	cis-1,2-Dichloroethene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	2-Butanone (MEK), Solid*	19	U		5.0	19	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Bromochloromethane, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Chloroform, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,1,1-Trichloroethane, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Carbon tetrachloride, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Benzene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,2-Dichloroethane, Solid*	6.4	U		1.2	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Trichloroethene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,2-Dichloropropane, Solid*	6.4	U		1.3	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Bromodichloromethane, Solid*	6.4	U		1.2	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	cis-1,3-Dichloropropene, Solid*	6.4	U		1.2	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	4-Methyl-2-pentanone (MIBK), Solid*	13	U		1.3	13	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Toluene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 231579

Date: 11/16/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LLBss-005D-DUP  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231579-17  
 Date Received.....: 11/02/2004  
 Time Received.....: 08:40

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	trans-1,3-Dichloropropene, Solid*	6.4	U		1.0	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,1,2-Trichloroethane, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Tetrachloroethene, Solid*	6.4	U		1.5	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	2-Hexanone, Solid*	13	U		1.4	13	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Dibromochloromethane, Solid*	6.4	U		1.0	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,2-Dibromoethane (EDB), Solid*	6.4	U		1.0	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Chlorobenzene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Ethylbenzene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	m&p-Xylenes, Solid*	13	U		2.9	13	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	o-Xylene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Styrene, Solid*	6.4	U		1.4	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Bromoform, Solid*	6.4	U		0.95	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,1,2,2-Tetrachloroethane, Solid*	6.4	U		1.2	6.4	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	1,2-Dichloroethene (total), Solid*	13	U		2.7	13	1.00000	ug/Kg	133782		11/09/04 1943	jdj
	Xylenes (total), Solid*	13	U		4.3	13	1.00000	ug/Kg	133782		11/09/04 1943	jdj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005M-DUP  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-25  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatiles Organics											
	Phenol, 3541 Low Solid*	180	U		7.8	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	73	U		9.8	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Benzyl alcohol, 3541 Low Solid*	730	U		81	730	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	73	U		12	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	73	U		14	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Hexachloroethane, 3541 Low Solid*	180	U		9.4	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	73	U		13	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2-Chlorophenol, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Nitrobenzene, 3541 Low Solid*	36	U		9.4	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	73	U		9.7	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	180	U		15	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Benzoic acid, 3541 Low Solid*	730	U	*	220	730	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Isophorone, 3541 Low Solid*	180	U		22	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	360	U		18	360	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Hexachlorobutadiene, 3541 Low Solid*	180	U		9.9	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Naphthalene, 3541 Low Solid*	54	U		9.2	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	360	U		17	360	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	4-Chloroaniline, 3541 Low Solid*	730	U		59	730	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	180	U		41	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	360	U		49	360	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	1100	U		330	1100	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2-Methylnaphthalene, 3541 Low Solid*	75	U		11	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2-Nitroaniline, 3541 Low Solid*	180	U		12	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2-Chloronaphthalene, 3541 Low Solid*	180	U		17	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOC'S

ATTN: Eric Ellis

Customer Sample ID: LLBss-005M-DUP  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-25  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	360	U		38	360	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	36	U		10	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2-Nitrophenol, 3541 Low Solid*	360	U		16	360	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	3-Nitroaniline, 3541 Low Solid*	730	U		150	730	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Dimethyl phthalate, 3541 Low Solid*	73	U		9.8	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	730	U		110	730	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Acenaphthylene, 3541 Low Solid*	36	U		9.1	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Acenaphthene, 3541 Low Solid*	36	U		9.1	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Dibenzofuran, 3541 Low Solid*	22	U		9.7	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	4-Nitrophenol, 3541 Low Solid*	730	J		230	730	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Fluorene, 3541 Low Solid*	36	U		9.9	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	4-Nitroaniline, 3541 Low Solid*	730	U		49	730	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	180	U		11	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Hexachlorobenzene, 3541 Low Solid*	36	U		10	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Diethyl phthalate, 3541 Low Solid*	73	U		10	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	180	U		11	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Pentachlorophenol, 3541 Low Solid*	360	U		120	360	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	36	U		11	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	730	U		190	730	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Phenanthrene, 3541 Low Solid*	90	U		17	55	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Anthracene, 3541 Low Solid*	13	J		12	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Carbazole, 3541 Low Solid*	180	U		13	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	180	U		13	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Fluoranthene, 3541 Low Solid*	130	U		12	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Pyrene, 3541 Low Solid*	99	U		13	55	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	73	U		11	73	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Benzo(a)anthracene, 3541 Low Solid*	64	U		11	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Chrysene, 3541 Low Solid*	97	U		12	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/29/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RMAAP 14 AQCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-005M-DUP  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 10:20  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-25  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	180	U		16	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	180	U		35	180	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	360	U		11	360	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	140			9.8	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	67			10	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Benzo(a)pyrene, 3541 Low Solid*	90			10	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	43			11	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	14	J		10	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	45			12	36	1.00000	ug/Kg	135522		11/25/04 0232	dpk
Method	% Solids Determination											
	% Solids, Solid	86.6			0.10	0.10	1	%	133222		11/04/04 2020	clb
	% Moisture, Solid	13.4			0.10	0.10	1	%	133222		11/04/04 2020	clb

\* In Description = Dry Wgt.



STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LLBss-005M-DUP			Laboratory Sample ID: 231611-25									
Date Sampled: 11/01/2004			Date Received: 11/03/2004									
Time Sampled: 10:20			Time Received: 09:10									
Sample Matrix: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	REL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.055	0.20	1.00000	mg/Kg	134571		11/07/04 0927	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134571		11/07/04 0927	san
	1,3,5-Trinitrobenzene, Solid	0.098	U		0.032	0.098	1.00000	mg/Kg	134571		11/07/04 0927	san
	1,3-Dinitrobenzene, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	134571		11/07/04 0927	san
	Nitrobenzene, Solid	0.098	U		0.021	0.098	1.00000	mg/Kg	134571		11/07/04 0927	san
	2,4,6-TNT, Solid	0.098	U		0.023	0.098	1.00000	mg/Kg	134571		11/07/04 0927	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	134571		11/07/04 0927	san
	2,4-Dinitrotoluene, Solid	0.098	U		0.025	0.098	1.00000	mg/Kg	134571		11/07/04 0927	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134571		11/07/04 0927	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134571		11/07/04 0927	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.093	0.29	1.00000	mg/Kg	134571		11/07/04 0927	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134571		11/07/04 0927	san
	4-Nitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134571		11/07/04 0927	san
3-Nitrotoluene, Solid	0.20	U		0.052	0.20	1.00000	mg/Kg	134571		11/07/04 0927	san	
8332M	NG/PETM by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	134573		11/09/04 1904	san	

\* In Description = Dry Wgt.

STL CHICAGO

LLS

Client Sample ID: ~~INWSS-005M-DUP~~

Trace Level Organic Compounds

Lot-Sample #...: G4K030251-004    Work Order #...: GV5WX1A    Matrik.....: SOLID  
Date Sampled...: 11/01/04 10:20    Date Received...: 11/03/04  
Prep Date.....: 11/08/04    Analysis Date...: 11/10/04  
Prep Batch #...: 4313426  
Dilution Factor: 1    Initial wgt/Vol: 2 g    Final wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND		0.25	mg/kg	NONE UV/HPIC per

STL CHICAGO

LL8

Client Sample ID: ~~INWSS-005M-DUP~~

General Chemistry

Lot-Sample #...: G4K030251-004  
Date Sampled...: 11/01/04

Work Order #...: GY5WX  
Date Received...: 11/03/04

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION - ANALYSIS DATE	PREP BATCH #
Nitrocellulose	2.5	2.0	mg/kg	MCAMW 353.2	11/09-11/12/04	4314547
			MDL.....: 0.57			

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LABORATORY TEST RESULTS

Job Number: 231542

Date: 11/12/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP T4 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL8ss-006M-SO  
 Date Sampled.....: 10/27/2004  
 Time Sampled.....: 15:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231542-10  
 Date Received.....: 10/30/2004  
 Time Received.....: 11:15

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	96.8			0.10	0.10	1	%	132836		11/01/04 1421	daj
	% Moisture, Solid	3.2			0.10	0.10	1	%	132836		11/01/04 1421	daj
7041	Antimony (GFAA) Antimony, Solid*	1.3		U	0.40	1.3	1	mg/Kg	133349		11/04/04 2252	daj
7841	Thallium (GFAA) Thallium, Solid*	0.55		U	0.17	0.55	1	mg/Kg	133347		11/04/04 1819	gok
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.041			0.0044	0.017	1	mg/Kg	133337		11/04/04 1526	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			2.3	14	1	mg/Kg	133493		11/06/04 1515	tds
	Barium, Solid*	110			0.15	0.95	1	mg/Kg	133493		11/06/04 1515	tds
	Arsenic, Solid*	8.1			0.48	1.4	1	mg/Kg	133493		11/06/04 1515	tds
	Beryllium, Solid*	1.6			0.042	0.38	1	mg/Kg	133493		11/06/04 1515	tds
	Cadmium, Solid*	0.16		B	0.076	0.24	1	mg/Kg	133493		11/06/04 1515	tds
	Calcium, Solid*	38000			2.9	9.5	1	mg/Kg	133493		11/06/04 1515	tds
	Chromium, Solid*	22		H	0.21	0.95	1	mg/Kg	133493		11/06/04 1515	tds
	Cobalt, Solid*	5.1			0.13	0.47	1	mg/Kg	133493		11/06/04 1515	tds
	Copper, Solid*	14			0.85	2.8	1	mg/Kg	133493		11/06/04 1515	tds
	Iron, Solid*	15000			2.8	9.5	1	mg/Kg	133493		11/06/04 1515	tds
	Magnesium, Solid*	5400		H	1.6	9.5	1	mg/Kg	133493		11/06/04 1515	tds
	Manganese, Solid*	1100			0.12	0.95	1	mg/Kg	133493		11/06/04 1515	tds
	Nickel, Solid*	16			0.24	0.95	1	mg/Kg	133493		11/06/04 1515	tds
	Lead, Solid*	53			0.41	1.4	1	mg/Kg	133493		11/06/04 1515	tds
	Potassium, Solid*	1300			13	47	1	mg/Kg	133493		11/06/04 1515	tds

\* In Description = Dry Wgt.

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Job Number: 231542		LABORATORY TEST RESULTS					Date: 11/12/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAMP 14 ADCS			ATTN: Eric Ellis						
Customer Sample ID: LL8ss-006M-S0			Laboratory Sample ID: 231542-10			Date Sampled.....: 10/27/2004		Date Received.....: 10/30/2004				
Time Sampled.....: 15:15			Time Received.....: 11:15			Sample Matrix.....: Soil						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	0.51		B	0.38	1.4	1	mg/Kg	133493		11/06/04 1515	tds
	Silver, Solid*	0.95		U	0.29	0.95	1	mg/Kg	133493		11/06/04 1515	tds
	Sodium, Solid*	790			82	280	1	mg/Kg	133493		11/06/04 1515	tds
	Vanadium, Solid*	16			0.20	0.95	1	mg/Kg	133493		11/06/04 1515	tds
	Zinc, Solid*	67			0.38	1.9	1	mg/Kg	133493		11/06/04 1515	tds

\* In Description = Dry Wgt.

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Job Number: 231542		LABORATORY TEST RESULTS					Date: 11/13/2004					
CUSTOMER: HMM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AGCS			ATTN: Eric Ellis						
Customer Sample ID: LL&ss-006M-S0 Date Sampled.....: 10/27/2004 Time Sampled.....: 15:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231542-10 Date Received.....: 10/30/2004 Time Received.....: 11:15									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NOI	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.19	U		0.055	0.19	1.00000	mg/Kg	134214		11/13/04 0019	san
	RDX, Solid	0.19	U		0.061	0.19	1.00000	mg/Kg	134214		11/13/04 0019	san
	1,3,5-Trinitrobenzene, Solid	0.097	U		0.032	0.097	1.00000	mg/Kg	134214		11/13/04 0019	san
	1,3-Dinitrobenzene, Solid	0.097	U		0.023	0.097	1.00000	mg/Kg	134214		11/13/04 0019	san
	Nitrobenzene, Solid	0.097	U		0.020	0.097	1.00000	mg/Kg	134214		11/13/04 0019	san
	2,4,6-TNT, Solid	0.097	U		0.023	0.097	1.00000	mg/Kg	134214		11/13/04 0019	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	134214		11/13/04 0019	san
	2,4-Dinitrotoluene, Solid	0.097	U		0.025	0.097	1.00000	mg/Kg	134214		11/13/04 0019	san
	2,6-Dinitrotoluene, Solid	0.19	U		0.047	0.19	1.00000	mg/Kg	134214		11/13/04 0019	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.19	U		0.044	0.19	1.00000	mg/Kg	134214		11/13/04 0019	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29	U		0.092	0.29	1.00000	mg/Kg	134214		11/13/04 0019	san
	2-Nitrotoluene, Solid	0.19	U		0.047	0.19	1.00000	mg/Kg	134214		11/13/04 0019	san
	4-Nitrotoluene, Solid	0.19	U		0.049	0.19	1.00000	mg/Kg	134214		11/13/04 0019	san
	3-Nitrotoluene, Solid	0.19	U		0.052	0.19	1.00000	mg/Kg	134214		11/13/04 0019	san

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAMP 14 ACCS				ATTN: Eric Ellis				
Customer Sample ID: LL8ss-007M-SO Date Sampled.....: 11/01/2004 Time Sampled.....: 11:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-14 Date Received.....: 11/03/2004 Time Received.....: 09:10								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	92.8		0.10	0.10	1	%	133223		11/04/04 2131	cLb
	% Moisture, Solid	7.2		0.10	0.10	1	%	133223		11/04/04 2131	cLb
7041	Antimony (GFAA) Antimony, Solid*	1.4	U	0.44	1.4	1	mg/Kg	133656		11/09/04 0310	daj
7841	Thallium (GFAA) Thallium, Solid*	0.60	U	0.19	0.60	1	mg/Kg	134082		11/10/04 1518	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.029		0.0046	0.018	1	mg/Kg	133831		11/09/04 1608	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	10000		2.5	16	1	mg/Kg	133922		11/10/04 1504	tds
	Barium, Solid*	59		0.17	1.1	1	mg/Kg	133922		11/10/04 1504	tds
	Arsenic, Solid*	10		0.54	1.6	1	mg/Kg	133922		11/10/04 1504	tds
	Beryllium, Solid*	0.61		0.046	0.42	1	mg/Kg	133922		11/10/04 1504	tds
	Cadmium, Solid*	0.26	U	0.084	0.26	1	mg/Kg	133922		11/10/04 1504	tds
	Calcium, Solid*	3600		3.3	11	1	mg/Kg	133922		11/10/04 1504	tds
	Chromium, Solid*	22		0.23	1.1	1	mg/Kg	133922		11/10/04 1504	tds
	Cobalt, Solid*	7.5		0.15	0.53	1	mg/Kg	133922		11/10/04 1504	tds
	Copper, Solid*	15		0.95	3.2	1	mg/Kg	133922		11/10/04 1504	tds
	Iron, Solid*	19000		3.2	11	1	mg/Kg	133922		11/10/04 1504	tds
	Magnesium, Solid*	2400		1.8	11	1	mg/Kg	133922		11/10/04 1504	tds
	Manganese, Solid*	380		0.14	1.1	1	mg/Kg	133922		11/10/04 1504	tds
	Nickel, Solid*	19		0.26	1.1	1	mg/Kg	133922		11/10/04 1504	tds
	Lead, Solid*	42		0.45	1.6	1	mg/Kg	133922		11/10/04 1504	tds
	Potassium, Solid*	1300		15	53	1	mg/Kg	133922		11/10/04 1504	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: HKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AOCs				ATTN: Eric Blize					
Customer Sample ID: LL8ss-007M-SD			Laboratory Sample ID: 231611-14									
Date Sampled.....: 11/01/2004			Date Received.....: 11/03/2004									
Time Sampled.....: 11:15			Time Received.....: 09:10									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.6	U		0.42	1.6	1	mg/Kg	133922		11/10/04 1504	tds
	Silver, Solid*	1.1	U		0.33	1.1	1	mg/Kg	133922		11/10/04 1504	tds
	Sodium, Solid*	250	B		91	320	1	mg/Kg	133922		11/10/04 1504	tds
	Vanadium, Solid*	18			0.22	1.1	1	mg/Kg	133922		11/10/04 1504	tds
	Zinc, Solid*	68			0.42	2.1	1	mg/Kg	133922		11/10/04 1504	tds

\* In Description = Dry Wgt.



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## LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LLBss-007M-SO  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 11:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-14  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	134567		11/07/04 0047	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134567		11/07/04 0047	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	134567		11/07/04 0047	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134567		11/07/04 0047	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134567		11/07/04 0047	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	134567		11/07/04 0047	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134567		11/07/04 0047	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134567		11/07/04 0047	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134567		11/07/04 0047	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134567		11/07/04 0047	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134567		11/07/04 0047	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134567		11/07/04 0047	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134567		11/07/04 0047	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134567		11/07/04 0047	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-008M-SO  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 11:45  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-20  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	91.8			0.10	0.10	1	%	133223		11/04/04 2151	clb
	% Solids, Solid	8.2			0.10	0.10	1	%	133223		11/04/04 2151	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.47	1.5	1	mg/Kg	133656		11/09/04 0501	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63		U	0.20	0.63	1	mg/Kg	134082		11/10/04 2329	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.021			0.0047	0.018	1	mg/Kg	133831		11/09/04 1631	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	10000			2.6	16	1	mg/Kg	133922		11/10/04 1630	tds
	Barium, Solid*	100			0.17	1.1	1	mg/Kg	133922		11/10/04 1630	tds
	Arsenic, Solid*	7.6			0.54	1.6	1	mg/Kg	133922		11/10/04 1630	tds
	Beryllium, Solid*	1.7			0.047	0.43	1	mg/Kg	133922		11/10/04 1630	tds
	Cadmium, Solid*	0.29			0.085	0.27	1	mg/Kg	133922		11/10/04 1630	tds
	Calcium, Solid*	59000			3.3	11	1	mg/Kg	133922		11/10/04 1630	tds
	Chromium, Solid*	19			0.23	1.1	1	mg/Kg	133922		11/10/04 1630	tds
	Cobalt, Solid*	4.1			0.15	0.53	1	mg/Kg	133922		11/10/04 1630	tds
	Copper, Solid*	12			0.96	3.2	1	mg/Kg	133922		11/10/04 1630	tds
	Iron, Solid*	14000			3.2	11	1	mg/Kg	133922		11/10/04 1630	tds
	Magnesium, Solid*	6100			1.8	11	1	mg/Kg	133922		11/10/04 1630	tds
	Manganese, Solid*	1200			0.14	1.1	1	mg/Kg	133922		11/10/04 1630	tds
	Nickel, Solid*	13			0.27	1.1	1	mg/Kg	133922		11/10/04 1630	tds
	Lead, Solid*	27			0.46	1.6	1	mg/Kg	133922		11/10/04 1630	tds
	Potassium, Solid*	1200			15	53	1	mg/Kg	133922		11/10/04 1630	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MCM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-008M-SO			Laboratory Sample ID: 231611-20									
Date Sampled.....: 11/01/2004			Date Received.....: 11/03/2004									
Time Sampled.....: 11:45			Time Received.....: 09:10									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.6	U		0.43	1.6	1	mg/Kg	133922		11/10/04 1630	tds
	Silver, Solid*	1.1	U		0.33	1.1	1	mg/Kg	133922		11/10/04 1630	tds
	Sodium, Solid*	570			92	320	1	mg/Kg	133922		11/10/04 1630	tds
	Vanadium, Solid*	13			0.22	1.1	1	mg/Kg	133922		11/10/04 1630	tds
	Zinc, Solid*	56			0.43	2.1	1	mg/Kg	133922		11/10/04 1630	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYAAP 14 AGCS				ATTN: ERIC ELLIS					
Customer Sample ID: LL8ss-008M-SO Date Sampled.....: 11/01/2004 Time Sampled.....: 11:45 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-20 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HNX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	134571		11/07/04 0645	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134571		11/07/04 0645	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	134571		11/07/04 0645	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134571		11/07/04 0645	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134571		11/07/04 0645	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	134571		11/07/04 0645	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134571		11/07/04 0645	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134571		11/07/04 0645	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134571		11/07/04 0645	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134571		11/07/04 0645	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134571		11/07/04 0645	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134571		11/07/04 0645	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134571		11/07/04 0645	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134571		11/07/04 0645	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-009M-SO  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 14:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-17  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	73.8			0.10	0.10	1	%	133223		11/04/04 2139	clb
	% Moisture, Solid	26.2			0.10	0.10	1	%	133223		11/04/04 2139	clb
7041	Antimony (GFAA) Antimony, Solid*	1.8		U	0.56	1.8	1	mg/Kg	133656		11/09/04 0355	daj
7841	Thallium (GFAA) Thallium, Solid*	0.76		U	0.24	0.76	1	mg/Kg	134082		11/10/04 1609	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.037			0.0058	0.022	†	mg/Kg	133831		11/09/04 1615	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	17000			3.0	19	1	mg/Kg	133922		11/10/04 1523	tds
	Barium, Solid*	190			0.20	1.2	1	mg/Kg	133922		11/10/04 1523	tds
	Arsenic, Solid*	5.3			0.63	1.9	1	mg/Kg	133922		11/10/04 1523	tds
	Beryllium, Solid*	3.4			0.055	0.50	1	mg/Kg	133922		11/10/04 1523	tds
	Cadmium, Solid*	1.1			0.099	0.31	1	mg/Kg	133922		11/10/04 1523	tds
	Calcium, Solid*	80000			3.8	12	1	mg/Kg	133922		11/10/04 1523	tds
	Chromium, Solid*	34			0.27	1.2	1	mg/Kg	133922		11/10/04 1523	tds
	Cobalt, Solid*	3.0			0.17	0.62	1	mg/Kg	133922		11/10/04 1523	tds
	Copper, Solid*	22			1.1	3.7	1	mg/Kg	133922		11/10/04 1523	tds
	Iron, Solid*	14000			3.7	12	1	mg/Kg	133922		11/10/04 1523	tds
	Magnesium, Solid*	12000			2.1	12	1	mg/Kg	133922		11/10/04 1523	tds
	Manganese, Solid*	1700			0.16	1.2	1	mg/Kg	133922		11/10/04 1523	tds
	Nickel, Solid*	14			0.31	1.2	1	mg/Kg	133922		11/10/04 1523	tds
	Lead, Solid*	99			0.53	1.9	1	mg/Kg	133922		11/10/04 1523	tds
	Potassium, Solid*	1200			17	62	1	mg/Kg	133922		11/10/04 1523	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LLBss-009M-S0			Laboratory Sample ID: 231611-17									
Date Sampled.....: 11/01/2004			Date Received.....: 11/03/2004									
Time Sampled.....: 14:50			Time Received.....: 09:10									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.1	B		0.50	1.9	1	mg/Kg	133922		11/10/04 1523	tds
	Silver, Solid*	1.2	U		0.38	1.2	1	mg/Kg	133922		11/10/04 1523	tds
	Sodium, Solid*	590			110	370	1	mg/Kg	133922		11/10/04 1523	tds
	Vanadium, Solid*	11			0.26	1.2	1	mg/Kg	133922		11/10/04 1523	tds
	Zinc, Solid*	120			0.50	2.5	1	mg/Kg	133922		11/10/04 1523	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-009M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 14:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-17 Date Received.....: 11/03/2004 Time Received.....: 09:10									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	134567		11/07/04 0225	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	134567		11/07/04 0225	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	134567		11/07/04 0225	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	134567		11/07/04 0225	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	134567		11/07/04 0225	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134567		11/07/04 0225	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134567		11/07/04 0225	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	134567		11/07/04 0225	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134567		11/07/04 0225	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134567		11/07/04 0225	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	134567		11/07/04 0225	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134567		11/07/04 0225	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134567		11/07/04 0225	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134567		11/07/04 0225	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/17/2004

CUSTOMER: HKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ACCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-010M-SO  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 14:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-19  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	87.6			0.10	0.10	1	%	133223		11/04/04 2145	clb
	% Moisture, Solid	12.4			0.10	0.10	1	%	133223		11/04/04 2145	clb
7041	Antimony (GFAA) Antimony, Solid*	1.6		U	0.49	1.6	1	mg/Kg	133656		11/09/04 0416	daj
7841	Thallium (GFAA) Thallium, Solid*	0.67		U	0.21	0.67	1	mg/Kg	134082		11/10/04 2239	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.059			0.0049	0.019	1	mg/Kg	133831		11/09/04 1620	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8100			2.6	17	1	mg/Kg	133922		11/10/04 1536	tds
	Barium, Solid*	76			0.18	1.1	1	mg/Kg	133922		11/10/04 1536	tds
	Arsenic, Solid*	7.6			0.56	1.7	1	mg/Kg	133922		11/10/04 1536	tds
	Beryllium, Solid*	0.71			0.048	0.44	1	mg/Kg	133922		11/10/04 1536	tds
	Cadmium, Solid*	0.59			0.088	0.28	1	mg/Kg	133922		11/10/04 1536	tds
	Calcium, Solid*	3300			3.4	11	1	mg/Kg	133922		11/10/04 1536	tds
	Chromium, Solid*	27			0.24	1.1	1	mg/Kg	133922		11/10/04 1536	tds
	Cobalt, Solid*	8.1			0.15	0.55	1	mg/Kg	133922		11/10/04 1536	tds
	Copper, Solid*	23			0.99	3.3	1	mg/Kg	133922		11/10/04 1536	tds
	Iron, Solid*	19000			3.3	11	1	mg/Kg	133922		11/10/04 1536	tds
	Magnesium, Solid*	2100			1.9	11	1	mg/Kg	133922		11/10/04 1536	tds
	Manganese, Solid*	380			0.14	1.1	1	mg/Kg	133922		11/10/04 1536	tds
	Nickel, Solid*	24			0.28	1.1	1	mg/Kg	133922		11/10/04 1536	tds
	Lead, Solid*	80			0.47	1.7	1	mg/Kg	133922		11/10/04 1536	tds
	Potassium, Solid*	1000			15	55	1	mg/Kg	133922		11/10/04 1536	tds

\* In Description = Dry Wgt.



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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: GSACE RVAAP 14 AOCs				ATTN: Eric Elliott					
Customer Sample ID: LL8ss-010M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 14:25 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-19 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.7	U		0.44	1.7	1	mg/Kg	133922		11/10/04 1536	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	133922		11/10/04 1536	tds
	Sodium, Solid*	230	B		95	330	1	mg/Kg	133922		11/10/04 1536	tds
	Vanadium, Solid*	15			0.23	1.1	1	mg/Kg	133922		11/10/04 1536	tds
	Zinc, Solid*	140			0.44	2.2	1	mg/Kg	133922		11/10/04 1536	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-010M-80  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 14:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-19  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

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	0.20	U		0.056	0.20	1.00000	mg/Kg	134571		11/07/04 0435	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	134571		11/07/04 0435	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	134571		11/07/04 0435	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	134571		11/07/04 0435	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	134571		11/07/04 0435	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134571		11/07/04 0435	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134571		11/07/04 0435	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	134571		11/07/04 0435	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134571		11/07/04 0435	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134571		11/07/04 0435	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	134571		11/07/04 0435	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134571		11/07/04 0435	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134571		11/07/04 0435	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134571		11/07/04 0435	san

\* In Description = Dry Wgt.

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Job Number: 231611 LABORATORY TEST RESULTS Date: 11/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE RVAAP 14 ACES ATTN: Eric Ellis

Customer Sample ID: LLBss-010M-DUP  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 14:25  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-23  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	86.8			0.10	0.10	1	%	133223		11/04/04 2159	clb
	% Moisture, Solid	13.2			0.10	0.10	1	%	133223		11/04/04 2159	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.48	1.5	1	mg/Kg	133763		11/09/04 1919	daJ
7841	Thallium (GFAA) Thallium, Solid*	0.66		U	0.21	0.66	1	mg/Kg	134082		11/11/04 0020	daJ
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.058			0.0050	0.019	1	mg/Kg	133831		11/09/04 1638	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8300			2.7	17	1	mg/Kg	133922		11/10/04 1649	tds
	Barium, Solid*	70			0.18	1.1	1	mg/Kg	133922		11/10/04 1649	tds
	Arsenic, Solid*	7.5			0.57	1.7	1	mg/Kg	133922		11/10/04 1649	tds
	Beryllium, Solid*	0.69			0.049	0.44	1	mg/Kg	133922		11/10/04 1649	tds
	Cadmium, Solid*	0.73			0.089	0.28	1	mg/Kg	133922		11/10/04 1649	tds
	Calcium, Solid*	3100			3.4	11	1	mg/Kg	133922		11/10/04 1649	tds
	Chromium, Solid*	27			0.24	1.1	1	mg/Kg	133922		11/10/04 1649	tds
	Cobalt, Solid*	8.2			0.16	0.55	1	mg/Kg	133922		11/10/04 1649	tds
	Copper, Solid*	22			1	3.3	1	mg/Kg	133922		11/10/04 1649	tds
	Iron, Solid*	19000			3.3	11	1	mg/Kg	133922		11/10/04 1649	tds
	Magnesium, Solid*	2100			1.9	11	1	mg/Kg	133922		11/10/04 1649	tds
	Manganese, Solid*	380			0.14	1.1	1	mg/Kg	133922		11/10/04 1649	tds
	Nickel, Solid*	23			0.28	1.1	1	mg/Kg	133922		11/10/04 1649	tds
	Lead, Solid*	84			0.48	1.7	1	mg/Kg	133922		11/10/04 1649	tds
	Potassium, Solid*	1100			15	55	1	mg/Kg	133922		11/10/04 1649	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: HOK Engineers, Inc.			PROJECT: USACE RVAAP 14 ADDS				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-010M-DUP			Laboratory Sample ID: 231611-23									
Date Sampled.....: 11/01/2004			Date Received.....: 11/03/2004									
Time Sampled.....: 14:25			Time Received.....: 09:10									
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.7	U		0.44	1.7	1	mg/Kg	133922		11/10/04 1649	tds
	Silver, Solid*	1.1	U		0.34	1.1	1	mg/Kg	133922		11/10/04 1649	tds
	Sodium, Solid*	250	B		96	350	1	mg/Kg	133922		11/10/04 1649	tds
	Vanadium, Solid*	15			0.23	1.1	1	mg/Kg	133922		11/10/04 1649	tds
	Zinc, Solid*	140			0.44	2.2	1	mg/Kg	133922		11/10/04 1649	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADCS				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-010M-DUP Date Sampled.....: 11/01/2004 Time Sampled.....: 14:25 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-23 Date Received.....: 11/03/2004 Time Received.....: 09:10									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	134571		11/07/04 0822	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134571		11/07/04 0822	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.032	0.099	1.00000	mg/Kg	134571		11/07/04 0822	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134571		11/07/04 0822	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134571		11/07/04 0822	san
	2,4,6-TNT, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134571		11/07/04 0822	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	134571		11/07/04 0822	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134571		11/07/04 0822	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134571		11/07/04 0822	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134571		11/07/04 0822	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134571		11/07/04 0822	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134571		11/07/04 0822	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134571		11/07/04 0822	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134571		11/07/04 0822	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231657				Date: 11/18/2004								
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL8ss-011M-SS Date Sampled.....: 11/02/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil						Laboratory Sample ID: 231657-16 Date Received.....: 11/04/2004 Time Received.....: 09:10						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.7			0.10	0.10	1	%	133225		11/04/04 2325	clb
	% Moisture, Solid	1.3			0.10	0.10	1	%	133225		11/04/04 2325	clb
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.42	1.4	1	mg/Kg	133945		11/10/04 1812	daj
7841	Thallium (GFAA) Thallium, Solid*	0.58		U	0.18	0.58	1	mg/Kg	134375		11/12/04 1517	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.87			0.022	0.084	5	mg/Kg	134643		11/16/04 1547	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	7300			2.3	14	1	mg/Kg	134280		11/13/04 1644	tds
	Barium, Solid*	52			0.15	0.96	1	mg/Kg	134280		11/13/04 1644	tds
	Arsenic, Solid*	11			0.49	1.4	1	mg/Kg	134280		11/13/04 1644	tds
	Beryllium, Solid*	0.57			0.042	0.39	1	mg/Kg	134280		11/13/04 1644	tds
	Cadmium, Solid*	0.73			0.077	0.24	1	mg/Kg	134280		11/13/04 1644	tds
	Calcium, Solid*	3700			3.0	9.6	1	mg/Kg	134280		11/13/04 1644	tds
	Chromium, Solid*	25			0.21	0.96	1	mg/Kg	134280		11/13/04 1644	tds
	Cobalt, Solid*	6.4			0.13	0.48	1	mg/Kg	134280		11/13/04 1644	tds
	Copper, Solid*	34			0.87	2.9	1	mg/Kg	134280		11/13/04 1644	tds
	Iron, Solid*	20000			2.9	9.6	1	mg/Kg	134280		11/13/04 1644	tds
	Magnesium, Solid*	2100			1.6	9.6	1	mg/Kg	134280		11/13/04 1644	tds
	Manganese, Solid*	410			0.13	0.96	1	mg/Kg	134280		11/13/04 1644	tds
	Nickel, Solid*	21			0.24	0.96	1	mg/Kg	134280		11/13/04 1644	tds
	Lead, Solid*	75			0.41	1.4	1	mg/Kg	134280		11/13/04 1644	tds
	Potassium, Solid*	890			13	48	1	mg/Kg	134280		11/13/04 1644	tds

\* In Description = Dry Wgt.

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Job Number: 231657		LABORATORY TEST RESULTS						Date: 11/18/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 MOES				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-011N-SS Date Sampled.....: 11/02/2004 Time Sampled.....: 09:30 Sample Matrix.....: Soil			Laboratory Sample ID: 231657-16 Date Received.....: 11/04/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.4	U		0.39	1.4	1	mg/Kg	134280		11/13/04 1644	tds
	Silver, Solid*	0.96	U		0.30	0.96	1	mg/Kg	134280		11/13/04 1644	tds
	Sodium, Solid*	240	B		84	290	1	mg/Kg	134280		11/13/04 1644	tds
	Vanadium, Solid*	14			0.20	0.96	1	mg/Kg	134280		11/13/04 1644	tds
	Zinc, Solid*	110			0.39	1.9	1	mg/Kg	134280		11/13/04 1644	tds

\* In Description = Dry Wgt.

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Job Number: 231657

LABORATORY TEST RESULTS

Date: 11/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RYAAP 14 ACOS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-011M-SS  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 09:30  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231657-16  
 Date Received.....: 11/04/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RI	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	RDX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	134710		11/09/04 2157	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134710		11/09/04 2157	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	134710		11/09/04 2157	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134710		11/09/04 2157	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134710		11/09/04 2157	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	134710		11/09/04 2157	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134710		11/09/04 2157	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134710		11/09/04 2157	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134710		11/09/04 2157	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134710		11/09/04 2157	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134710		11/09/04 2157	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134710		11/09/04 2157	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134710		11/09/04 2157	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134710		11/09/04 2157	san

\* In Description = Dry Wgt.



## LABORATORY TEST RESULTS

Job Number: 231657

Date: 11/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAMP TA AOCs

ATTN: Eric Ellis

Customer Sample ID: LL8ss-012M-SS  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 09:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231657-13  
 Date Received.....: 11/04/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDE	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.9			0.10	0.10	1	%	133225		11/04/04 2317	clb
	% Moisture, Solid	1.1			0.10	0.10	1	%	133225		11/04/04 2317	clb
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.43	1.4	1	mg/Kg	133945		11/10/04 1701	daj
7841	Thallium (GFAA) Thallium, Solid*	0.59		U	0.19	0.59	1	mg/Kg	134082		11/11/04 1000	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.26			0.0043	0.017	1	mg/Kg	134643		11/16/04 1445	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8600			2.3	14	1	mg/Kg	134280		11/13/04 1625	tds
	Barium, Solid*	65			0.15	0.94	1	mg/Kg	134280		11/13/04 1625	tds
	Arsenic, Solid*	11			0.48	1.4	1	mg/Kg	134280		11/13/04 1625	tds
	Beryllium, Solid*	0.62			0.041	0.38	1	mg/Kg	134280		11/13/04 1625	tds
	Cadmium, Solid*	1.9			0.075	0.24	1	mg/Kg	134280		11/13/04 1625	tds
	Calcium, Solid*	3000			2.9	9.4	1	mg/Kg	134280		11/13/04 1625	tds
	Chromium, Solid*	19			0.21	0.94	1	mg/Kg	134280		11/13/04 1625	tds
	Cobalt, Solid*	6.2			0.13	0.47	1	mg/Kg	134280		11/13/04 1625	tds
	Copper, Solid*	39			0.85	2.8	1	mg/Kg	134280		11/13/04 1625	tds
	Iron, Solid*	20000			2.8	9.4	1	mg/Kg	134280		11/13/04 1625	tds
	Magnesium, Solid*	2000			1.6	9.4	1	mg/Kg	134280		11/13/04 1625	tds
	Manganese, Solid*	400			0.12	0.94	1	mg/Kg	134280		11/13/04 1625	tds
	Nickel, Solid*	17			0.24	0.94	1	mg/Kg	134280		11/13/04 1625	tds
	Lead, Solid*	71			0.41	1.4	1	mg/Kg	134280		11/13/04 1625	tds
	Potassium, Solid*	950			13	47	1	mg/Kg	134280		11/13/04 1625	tds

\* In Description = Dry Wgt.

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Job Number: 231657		LABORATORY TEST RESULTS						Date: 11/18/2004				
CUSTOMER: MGN Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-012N-SS Date Sampled.....: 11/02/2004 Time Sampled.....: 09:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231657-13 Date Received.....: 11/04/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDC	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.4	U		0.38	1.4	1	mg/Kg	134280		11/13/04 1625	tds
	Silver, Solid*	0.94	U		0.29	0.94	1	mg/Kg	134280		11/13/04 1625	tds
	Sodium, Solid*	230	B		82	280	1	mg/Kg	134280		11/13/04 1625	tds
	Vanadium, Solid*	16			0.20	0.94	1	mg/Kg	134280		11/13/04 1625	tds
	Zinc, Solid*	130			0.38	1.9	1	mg/Kg	134280		11/13/04 1625	tds

\* In Description = Dry Wgt.

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Job Number: 231657

LABORATORY TEST RESULTS

Date: 11/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: Eric Elkins

Customer Sample ID: LL8ss-012M-SS  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 09:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231657-13  
 Date Received.....: 11/04/2004  
 Time Received.....: 09:10

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	0.20	U		0.056	0.20	1.00000	mg/Kg	134710		11/09/04 1914	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134710		11/09/04 1914	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	134710		11/09/04 1914	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134710		11/09/04 1914	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134710		11/09/04 1914	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	134710		11/09/04 1914	san
	Tetryl, Solid	0.63	U		0.12	0.40	1.00000	mg/Kg	134710		11/09/04 1914	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134710		11/09/04 1914	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134710		11/09/04 1914	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134710		11/09/04 1914	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134710		11/09/04 1914	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134710		11/09/04 1914	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134710		11/09/04 1914	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134710		11/09/04 1914	san

\* In Description = Dry Wgt.

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Job Number: 231657		LABORATORY TEST RESULTS							Date: 11/18/2004			
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-013M-SS Date Sampled.....: 11/02/2004 Time Sampled.....: 10:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231657-15 Date Received.....: 11/04/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.5			0.10	0.10	1	%	133225		11/04/04 2322	clb
	% Moisture, Solid	1.5			0.10	0.10	1	%	133225		11/04/04 2322	clb
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.44	1.4	1	mg/Kg	133945		11/10/04 1752	daj
7841	Thallium (GFAA) Thallium, Solid*	0.60		U	0.19	0.60	1	mg/Kg	134375		11/12/04 1504	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.045			0.0044	0.017	1	mg/Kg	134643		11/16/04 1450	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	10000			2.4	15	1	mg/Kg	134280		11/13/04 1638	tds
	Barium, Solid*	60			0.16	0.99	1	mg/Kg	134280		11/13/04 1638	tds
	Arsenic, Solid*	11			0.50	1.5	1	mg/Kg	134280		11/13/04 1638	tds
	Beryllium, Solid*	0.67			0.043	0.40	1	mg/Kg	134280		11/13/04 1638	tds
	Cadmium, Solid*	0.25		U	0.079	0.25	1	mg/Kg	134280		11/13/04 1638	tds
	Calcium, Solid*	3900			3.1	9.9	1	mg/Kg	134280		11/13/04 1638	tds
	Chromium, Solid*	20			0.22	0.99	1	mg/Kg	134280		11/13/04 1638	tds
	Cobalt, Solid*	8.5			0.14	0.49	1	mg/Kg	134280		11/13/04 1638	tds
	Copper, Solid*	16			0.89	3.0	1	mg/Kg	134280		11/13/04 1638	tds
	Iron, Solid*	19000			3.0	9.9	1	mg/Kg	134280		11/13/04 1638	tds
	Magnesium, Solid*	2500			1.7	9.9	1	mg/Kg	134280		11/13/04 1638	tds
	Manganese, Solid*	480			0.13	0.99	1	mg/Kg	134280		11/13/04 1638	tds
	Nickel, Solid*	19			0.25	0.99	1	mg/Kg	134280		11/13/04 1638	tds
	Lead, Solid*	41			0.43	1.5	1	mg/Kg	134280		11/13/04 1638	tds
	Potassium, Solid*	1200			14	49	1	mg/Kg	134280		11/13/04 1638	tds

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231657 Date: 11/18/2004

CUSTOMER: MOI Engineers, Inc. PROJECT: USACE RMAAP 14 ADCS ATTN: Eric Ellis

Customer Sample ID: LL8ss-013M-SS  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 10:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231657-15  
 Date Received.....: 11/04/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MQL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.5		U	0.40	1.5	1	mg/Kg	134280		11/13/04 1638	tds
	Silver, Solid*	0.99		U	0.31	0.99	1	mg/Kg	134280		11/13/04 1638	tds
	Sodium, Solid*	280		B	86	300	1	mg/Kg	134280		11/13/04 1638	tds
	Vanadium, Solid*	18			0.21	0.99	1	mg/Kg	134280		11/13/04 1638	tds
	Zinc, Solid*	85			0.40	2.0	1	mg/Kg	134280		11/13/04 1638	tds

\* In Description = Dry Wgt.

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Job Number: 231657

## LABORATORY TEST RESULTS

Date: 11/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-013M-SS

Date Sampled.....: 11/02/2004

Time Sampled.....: 10:15

Sample Matrix.....: Soil

Laboratory Sample ID: 231657-15

Date Received.....: 11/04/2004

Time Received.....: 09:10

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	0.20	U	0.056	0.20	1.00000	mg/Kg	134710		11/09/04 2124	san
	RDX, Solid	0.20	U	0.063	0.20	1.00000	mg/Kg	134710		11/09/04 2124	san
	1,3,5-Trinitrobenzene, Solid	0.10	U	0.033	0.10	1.00000	mg/Kg	134710		11/09/04 2124	san
	1,3-Dinitrobenzene, Solid	0.10	U	0.023	0.10	1.00000	mg/Kg	134710		11/09/04 2124	san
	Nitrobenzene, Solid	0.10	U	0.021	0.10	1.00000	mg/Kg	134710		11/09/04 2124	san
	2,4,6-TNT, Solid	0.10	U	0.024	0.10	1.00000	mg/Kg	134710		11/09/04 2124	san
	Tetryl, Solid	0.40	U	0.12	0.40	1.00000	mg/Kg	134710		11/09/04 2124	san
	2,4-Dinitrotoluene, Solid	0.10	U	0.026	0.10	1.00000	mg/Kg	134710		11/09/04 2124	san
	2,6-Dinitrotoluene, Solid	0.20	U	0.049	0.20	1.00000	mg/Kg	134710		11/09/04 2124	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U	0.045	0.20	1.00000	mg/Kg	134710		11/09/04 2124	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U	0.094	0.30	1.00000	mg/Kg	134710		11/09/04 2124	san
	2-Nitrotoluene, Solid	0.20	U	0.048	0.20	1.00000	mg/Kg	134710		11/09/04 2124	san
	4-Nitrotoluene, Solid	0.20	U	0.050	0.20	1.00000	mg/Kg	134710		11/09/04 2124	san
	3-Nitrotoluene, Solid	0.20	U	0.053	0.20	1.00000	mg/Kg	134710		11/09/04 2124	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231657								Date: 11/18/2004				
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL8ss-013M-QA Date Sampled.....: 11/02/2004 Time Sampled.....: 10:15 Sample Matrix.....: Soil						Laboratory Sample ID: 231657-20 Date Received.....: 11/04/2004 Time Received.....: 09:10						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	98.5			0.10	0.10	1	%	133225		11/04/04 2337	cLb
	% Moisture, Solid	1.5			0.10	0.10	1	%	133225		11/04/04 2337	cLb
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.43	1.4	1	mg/Kg	133945		11/10/04 1903	daj
7841	Thallium (GFAA) Thallium, Solid*	0.59		U	0.19	0.59	1	mg/Kg	134375		11/13/04 0713	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.040			0.0044	0.017	1	mg/Kg	134643		11/16/04 1508	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	10000			2.2	14	1	mg/Kg	134280		11/13/04 1733	tds
	Barium, Solid*	63			0.15	0.93	1	mg/Kg	134280		11/13/04 1733	tds
	Arsenic, Solid*	11			0.47	1.4	1	mg/Kg	134280		11/13/04 1733	tds
	Beryllium, Solid*	0.73			0.041	0.37	1	mg/Kg	134280		11/13/04 1733	tds
	Cadmium, Solid*	0.23		U	0.075	0.23	1	mg/Kg	134280		11/13/04 1733	tds
	Calcium, Solid*	6200			2.9	9.3	1	mg/Kg	134280		11/13/04 1733	tds
	Chromium, Solid*	19			0.20	0.93	1	mg/Kg	134280		11/13/04 1733	tds
	Cobalt, Solid*	8.0			0.13	0.47	1	mg/Kg	134280		11/13/04 1733	tds
	Copper, Solid*	19			0.84	2.8	1	mg/Kg	134280		11/13/04 1733	tds
	Iron, Solid*	20000			2.8	9.3	1	mg/Kg	134280		11/13/04 1733	tds
	Magnesium, Solid*	2800			1.6	9.3	1	mg/Kg	134280		11/13/04 1733	tds
	Manganese, Solid*	460			0.12	0.93	1	mg/Kg	134280		11/13/04 1733	tds
	Nickel, Solid*	19			0.23	0.93	1	mg/Kg	134280		11/13/04 1733	tds
	Lead, Solid*	47			0.40	1.4	1	mg/Kg	134280		11/13/04 1733	tds
	Potassium, Solid*	1200			13	47	1	mg/Kg	134280		11/13/04 1733	tds

\* In Description = Dry Wgt.

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Job Number: 231657		LABORATORY TEST RESULTS						Date: 11/18/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis						
Customer Sample ID: LL8ss-013M-QA Date Sampled.....: 11/02/2004 Time Sampled.....: 10:15 Sample Matrix.....: Soil			Laboratory Sample ID: 231657-20 Date Received.....: 11/04/2004 Time Received.....: 09:10										
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
	Selenium, Solid*	1.4	U		0.37	1.4	1	mg/Kg	134280		11/13/04 1733	tds	
	Silver, Solid*	0.93	U		0.29	0.93	1	mg/Kg	134280		11/13/04 1733	tds	
	Sodium, Solid*	290			81	280	1	mg/Kg	134280		11/13/04 1733	tds	
	Vanadium, Solid*	17			0.20	0.93	1	mg/Kg	134280		11/13/04 1733	tds	
	Zinc, Solid*	87			0.37	1.9	1	mg/Kg	134280		11/13/04 1733	tds	

\* In Description = Dry Wgt.



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Job Number: 231657

LABORATORY TEST RESULTS

Date: 11/18/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LLBss-013M-QA  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 10:15  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231657-20  
 Date Received.....: 11/04/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	134710		11/10/04 0039	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	134710		11/10/04 0039	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	134710		11/10/04 0039	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134710		11/10/04 0039	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	134710		11/10/04 0039	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134710		11/10/04 0039	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134710		11/10/04 0039	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	134710		11/10/04 0039	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134710		11/10/04 0039	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.046	0.20	1.00000	mg/Kg	134710		11/10/04 0039	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	134710		11/10/04 0039	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134710		11/10/04 0039	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134710		11/10/04 0039	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134710		11/10/04 0039	san

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCS				ATTN: Eric Ellis				
Customer Sample ID: LL8ss-014M-SO Date Sampled.....: 11/01/2004 Time Sampled.....: 15:25 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-21 Date Received.....: 11/03/2004 Time Received.....: 09:10								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	90.4		0.10	0.10	1	%	133223		11/04/04 2153	clb
	% Moisture, Solid	9.6		0.10	0.10	1	%	133223		11/04/04 2153	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5	U	0.47	1.5	1	mg/Kg	133656		11/09/04 0511	daj
7841	Thallium (GFAA) Thallium, Solid*	0.64	U	0.20	0.64	1	mg/Kg	134082		11/10/04 2342	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.054		0.0048	0.018	1	mg/Kg	133831		11/09/04 1633	gok
601DB	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	12000		2.5	16	1	mg/Kg	133922		11/10/04 1637	tds
	Barium, Solid*	100		0.17	1.0	1	mg/Kg	133922		11/10/04 1637	tds
	Arsenic, Solid*	9.2		0.53	1.6	1	mg/Kg	133922		11/10/04 1637	tds
	Beryllium, Solid*	1.2		0.046	0.42	1	mg/Kg	133922		11/10/04 1637	tds
	Cadmium, Solid*	0.40		0.083	0.26	1	mg/Kg	133922		11/10/04 1637	tds
	Calcium, Solid*	43000		3.2	10	1	mg/Kg	133922		11/10/04 1637	tds
	Chromium, Solid*	21		0.23	1.0	1	mg/Kg	133922		11/10/04 1637	tds
	Cobalt, Solid*	7.0		0.15	0.52	1	mg/Kg	133922		11/10/04 1637	tds
	Copper, Solid*	18		0.94	3.1	1	mg/Kg	133922		11/10/04 1637	tds
	Iron, Solid*	18000		3.1	10	1	mg/Kg	133922		11/10/04 1637	tds
	Magnesium, Solid*	5400		1.8	10	1	mg/Kg	133922		11/10/04 1637	tds
	Manganese, Solid*	760		0.14	1.0	1	mg/Kg	133922		11/10/04 1637	tds
	Nickel, Solid*	19		0.26	1.0	1	mg/Kg	133922		11/10/04 1637	tds
	Lead, Solid*	76		0.45	1.6	1	mg/Kg	133922		11/10/04 1637	tds
	Potassium, Solid*	1600		14	52	1	mg/Kg	133922		11/10/04 1637	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 1A AOCs				ATTN: Eric Ellis					
Customer Sample ID: LLBss-0f4M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 15:25 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-21 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.6	U		0.42	1.6	1	mg/Kg	133922		11/10/04 1637	tds
	Silver, Solid*	1.0	U		0.32	1.0	1	mg/Kg	133922		11/10/04 1637	tds
	Sodium, Solid*	340			90	310	1	mg/Kg	133922		11/10/04 1637	tds
	Vanadium, Solid*	16			0.22	1.0	1	mg/Kg	133922		11/10/04 1637	tds
	Zinc, Solid*	110			0.42	2.1	1	mg/Kg	133922		11/10/04 1637	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOC5				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-014M-SO			Laboratory Sample ID: 231611-21									
Date Sampled: 11/01/2004			Date Received: 11/03/2004									
Time Sampled: 15:25			Time Received: 09:10									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	134571		11/07/04 0717	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134571		11/07/04 0717	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.033	0.099	1.00000	mg/Kg	134571		11/07/04 0717	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134571		11/07/04 0717	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134571		11/07/04 0717	san
	2,4,6-TNT, Solid	0.099	U		0.024	0.099	1.00000	mg/Kg	134571		11/07/04 0717	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134571		11/07/04 0717	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134571		11/07/04 0717	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134571		11/07/04 0717	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134571		11/07/04 0717	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134571		11/07/04 0717	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134571		11/07/04 0717	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134571		11/07/04 0717	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134571		11/07/04 0717	san

\* In Description = Dry Wgt.

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**LABORATORY TEST RESULTS**

Job Number: 231657 Date: 11/18/2004

CUSTOMER: NKM Engineers, Inc. PROJECT: USAGE RVAAP 1% ADDS ATTN: Eric Ellis

Customer Sample ID: LL8ss-015M-SO  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 11:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231657-18  
 Date Received.....: 11/04/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	97.1			0.10	0.10	1	%	133225		11/04/04 2331	clb
	% Moisture, Solid	2.9			0.10	0.10	1	%	133225		11/04/04 2331	clb
7041	Antimony (GFAA) Antimony, Solid*	1.4		U	0.43	1.4	1	mg/Kg	133945		11/10/04 1832	daj
7841	Thallium (GFAA) Thallium, Solid*	0.59		U	0.19	0.59	1	mg/Kg	134375		11/13/04 0647	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.032			0.0044	0.017	1	mg/Kg	134643		11/16/04 1504	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.4	15	1	mg/Kg	134280		11/13/04 1656	tds
	Barium, Solid*	83			0.16	0.98	1	mg/Kg	134280		11/13/04 1656	tds
	Arsenic, Solid*	8.8			0.50	1.5	1	mg/Kg	134280		11/13/04 1656	tds
	Beryllium, Solid*	0.94			0.043	0.39	1	mg/Kg	134280		11/13/04 1656	tds
	Cadmium, Solid*	0.19		B	0.079	0.25	1	mg/Kg	134280		11/13/04 1656	tds
	Calcium, Solid*	23000			3.0	9.8	1	mg/Kg	134280		11/13/04 1656	tds
	Chromium, Solid*	23			0.22	0.98	1	mg/Kg	134280		11/13/04 1656	tds
	Cobalt, Solid*	7.0			0.14	0.49	1	mg/Kg	134280		11/13/04 1656	tds
	Copper, Solid*	17			0.88	2.9	1	mg/Kg	134280		11/13/04 1656	tds
	Iron, Solid*	18000			2.9	9.8	1	mg/Kg	134280		11/13/04 1656	tds
	Magnesium, Solid*	3600			1.7	9.8	1	mg/Kg	134280		11/13/04 1656	tds
	Manganese, Solid*	430			0.13	0.98	1	mg/Kg	134280		11/13/04 1656	tds
	Nickel, Solid*	19			0.25	0.98	1	mg/Kg	134280		11/13/04 1656	tds
	Lead, Solid*	31			0.42	1.5	1	mg/Kg	134280		11/13/04 1656	tds
	Potassium, Solid*	1400			14	49	1	mg/Kg	134280		11/13/04 1656	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS											Date: 11/18/2004	
Job Number: 231657				PROJECT: USACE RVMAP 14 AOCs				ATTN: Eric Ellis				
Customer Sample ID: LL8ss-015M-S0 Date Sampled.....: 11/02/2004 Time Sampled.....: 11:10 Sample Matrix.....: Soil						Laboratory Sample ID: 231657-18 Date Received.....: 11/04/2004 Time Received.....: 09:10						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.5		U	0.39	1.5	1	mg/Kg	134280		11/13/04 1656	tds
	Silver, Solid*	0.98		U	0.30	0.98	1	mg/Kg	134280		11/13/04 1656	tds
	Sodium, Solid*	280		B	85	290	1	mg/Kg	134280		11/13/04 1656	tds
	Vanadium, Solid*	17			0.21	0.98	1	mg/Kg	134280		11/13/04 1656	tds
	Zinc, Solid*	73			0.39	2.0	1	mg/Kg	134280		11/13/04 1656	tds

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 231657						Date: 11/28/2004						
CUSTOMER: MKM Engineers, Inc.				PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis				
Customer Sample ID: LL8ss-015M-SO Date Sampled.....: 11/02/2004 Time Sampled.....: 11:10 Sample Matrix.....: Soil						Laboratory Sample ID: 231657-18 Date Received.....: 11/04/2004 Time Received.....: 09:10						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.7	U		0.16	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	beta-BHC, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	delta-BHC, 3541 Solid*	1.7	U		0.11	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	gamma-BHC (Lindane), 3541 Solid*	1.7	U		0.23	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Heptachlor, 3541 Solid*	1.7	U		0.18	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Aldrin, 3541 Solid*	1.7	U		0.13	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Heptachlor epoxide, 3541 Solid*	1.7	U		0.14	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Endosulfan I, 3541 Solid*	1.7	U		0.27	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Dieldrin, 3541 Solid*	1.7	U		0.34	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	4,4'-DDE, 3541 Solid*	2.0	U		0.65	2.0	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Endrin, 3541 Solid*	1.7	U		0.43	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Endosulfan II, 3541 Solid*	1.7	U		0.28	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	4,4'-DDD, 3541 Solid*	1.7	U		0.36	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Endosulfan sulfate, 3541 Solid*	1.7	U		0.29	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	4,4'-DDT, 3541 Solid*	1.7	U		0.37	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Methoxychlor, 3541 Solid*	8.3	U		2.3	8.3	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	alpha-Chlordane, 3541 Solid*	1.7	U		0.12	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	gamma-Chlordane, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Endrin aldehyde, 3541 Solid*	1.7	U		0.33	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Endrin ketone, 3541 Solid*	1.7	U		0.29	1.7	1.00000	ug/Kg	135505		11/24/04 1440	pjs
	Toxaphene, 3541 Solid*	17	U		4.6	17	1.00000	ug/Kg	135505		11/24/04 1440	pjs
Method	% Solids Determination											
	% Solids, Solid	97.1			0.10	0.10	1	%	133225		11/04/04 2331	clb
	% Moisture, Solid	2.9			0.10	0.10	1	%	133225		11/04/04 2331	clb

\* In Description = Dry Wgt.

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Job Number: 231657		LABORATORY TEST RESULTS						Date: 11/24/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-015M-S0 Date Sampled.....: 11/02/2004 Time Sampled.....: 11:10 Sample Matrix.....: Soil			Laboratory Sample ID: 231657-18 Date Received.....: 11/04/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	33	U		8.9	33	1.00000	ug/Kg	135460		11/23/04 0934	bjt
	Aroclor 1221, 3541 Solid*	33	U		4.6	33	1.00000	ug/Kg	135460		11/23/04 0934	bjt
	Aroclor 1232, 3541 Solid*	17	U		4.5	17	1.00000	ug/Kg	135460		11/23/04 0934	bjt
	Aroclor 1242, 3541 Solid*	33	U		4.9	33	1.00000	ug/Kg	135460		11/23/04 0934	bjt
	Aroclor 1248, 3541 Solid*	17	U		3.7	17	1.00000	ug/Kg	135460		11/23/04 0934	bjt
	Aroclor 1254, 3541 Solid*	22	J		4.5	33	1.00000	ug/Kg	135460		11/23/04 0934	bjt
	Aroclor 1260, 3541 Solid*	33	U		13	33	1.00000	ug/Kg	135460		11/23/04 0934	bjt
Method	% Solids Determination											
	% Solids, Solid	97.1			0.10	0.10	1	%	133225		11/04/04 2331	clb
	% Moisture, Solid	2.9			0.10	0.10	1	%	133225		11/04/04 2331	clb

\* In Description = Dry Wgt.



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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/16/2004

CUSTOMER: HCN Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL8ss-015D-SO  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 11:08  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-5  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	74.1			0.10	0.10	1	%	133223		11/04/04 2106	clb
	% Moisture, Solid	25.9			0.10	0.10	1	%	133223		11/04/04 2106	clb
8260B	Volatile Organics											
	Chloromethane, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Vinyl chloride, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Bromomethane, Solid*	6.7	U		1.8	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Chloroethane, Solid*	6.7	U		1.3	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,1-Dichloroethene, Solid*	6.7	U		1.8	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Carbon disulfide, Solid*	6.7	U		1.6	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Acetone, Solid*	20	U		6.2	20	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Methylene chloride, Solid*	13	U		3.9	13	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	trans-1,2-Dichloroethene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,1-Dichloroethane, Solid*	6.7	U		1.3	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	cis-1,2-Dichloroethene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	2-Butanone (MEK), Solid*	20	U		5.3	20	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Bromochloromethane, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Chloroform, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,1,1-Trichloroethane, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Carbon tetrachloride, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Benzene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,2-Dichloroethane, Solid*	6.7	U		1.3	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Trichloroethene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,2-Dichloropropane, Solid*	6.7	U		1.3	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Bromodichloromethane, Solid*	6.7	U		1.3	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	cis-1,3-Dichloropropene, Solid*	6.7	U		1.3	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	4-Methyl-2-pentanone (MIBK), Solid*	13	U		1.3	13	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Toluene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/16/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs			ATTN: Eric Ellis						
Customer Sample ID: LL8ss-015D-S0 Date Sampled.....: 11/02/2004 Time Sampled.....: 11:08 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-5 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	trans-1,3-Dichloropropene, Solid*	6.7	U		1.1	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,1,2-Trichloroethane, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Tetrachloroethene, Solid*	6.7	U		1.6	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	2-Hexanone, Solid*	13	U		1.5	13	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Dibromochloromethane, Solid*	6.7	U		1.1	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,2-Dibromoethane (EDB), Solid*	6.7	U		1.1	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Chlorobenzene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Ethylbenzene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	m&p-Xylenes, Solid*	13	U		3.1	13	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	o-Xylene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Styrene, Solid*	6.7	U		1.5	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Bromoform, Solid*	6.7	U		1.0	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,1,2,2-Tetrachloroethane, Solid*	6.7	U		1.3	6.7	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	1,2-Dichloroethene (total), Solid*	13	U		2.8	13	1.00000	ug/Kg	133782		11/09/04 2155	jdj
	Xylenes (total), Solid*	13	U		4.6	13	1.00000	ug/Kg	133782		11/09/04 2155	jdj

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 11/19/2004

Job Number: 231657

CUSTOMER: NKM Engineers, Inc.

PROJECT: USACE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: L18ss-015M-50  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 11:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231657-18  
 Date Received.....: 11/04/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatiles Organics											
	Phenol, 3541 Low Solid*	37	J		7.1	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Bis(2-chloroethyl)ether, 3541 Low Solid*	67	U		8.9	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	1,3-Dichlorobenzene, 3541 Low Solid*	170	U		13	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	1,4-Dichlorobenzene, 3541 Low Solid*	170	U		15	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	1,2-Dichlorobenzene, 3541 Low Solid*	170	U		14	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Benzyl alcohol, 3541 Low Solid*	450	J		73	670	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2-Methylphenol (o-cresol), 3541 Low Solid*	67	U		10	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2,2-oxybis (1-chloropropane), 3541 Low Solid*	170	U		16	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	n-Nitroso-di-n-propylamine, 3541 Low Solid*	67	U		13	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Hexachloroethane, 3541 Low Solid*	170	U		8.6	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	4-Methylphenol (m/p-cresol), 3541 Low Solid*	67	U		12	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2-Chlorophenol, 3541 Low Solid*	170	U		13	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Nitrobenzene, 3541 Low Solid*	33	U		8.6	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Bis(2-chloroethoxy)methane, 3541 Low Solid*	67	U		8.8	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	1,2,4-Trichlorobenzene, 3541 Low Solid*	170	U		14	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Benzoic acid, 3541 Low Solid*	670	U	*	190	670	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Isophorone, 3541 Low Solid*	170	U		19	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2,4-Dimethylphenol, 3541 Low Solid*	330	U		16	330	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Hexachlorobutadiene, 3541 Low Solid*	170	U		9.0	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Naphthalene, 3541 Low Solid*	12	J		8.4	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2,4-Dichlorophenol, 3541 Low Solid*	330	U		15	330	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	4-Chloroaniline, 3541 Low Solid*	670	U		54	670	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2,4,6-Trichlorophenol, 3541 Low Solid*	170	U		37	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2,4,5-Trichlorophenol, 3541 Low Solid*	330	U		44	330	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Hexachlorocyclopentadiene, 3541 Low Solid*	990	U		300	990	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2-Methylnaphthalene, 3541 Low Solid*	12	J		9.9	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2-Nitroaniline, 3541 Low Solid*	170	U		11	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2-Chloronaphthalene, 3541 Low Solid*	170	U		16	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Date: 11/19/2004

Job Number: 231657

CUSTOMER: MKM Engineers, Inc.

PROJECT: USAGE RVAAP 14 AOCs

ATTN: Eric Ellis

Customer Sample ID: LL8ss-015M-S0  
 Date Sampled.....: 11/02/2004  
 Time Sampled.....: 11:10  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231657-18  
 Date Received.....: 11/04/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	NDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	4-Chloro-3-methylphenol, 3541 Low Solid*	330	U		34	330	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2,6-Dinitrotoluene, 3541 Low Solid*	33	U		9.2	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2-Nitrophenol, 3541 Low Solid*	330	U		15	330	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	3-Nitroaniline, 3541 Low Solid*	670	U		140	670	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Dimethyl phthalate, 3541 Low Solid*	67	U		8.9	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2,4-Dinitrophenol, 3541 Low Solid*	670	U		100	670	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Acenaphthylene, 3541 Low Solid*	33	U		8.3	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	2,4-Dinitrotoluene, 3541 Low Solid*	33	U		10	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Acenaphthene, 3541 Low Solid*	33	U		8.3	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Dibenzofuran, 3541 Low Solid*	67	U		8.8	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	4-Nitrophenol, 3541 Low Solid*	670	U		210	670	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Fluorene, 3541 Low Solid*	33	U		9.0	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	4-Nitroaniline, 3541 Low Solid*	670	U		45	670	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	4-Bromophenyl phenyl ether, 3541 Low Soli*	170	U		9.9	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Hexachlorobenzene, 3541 Low Solid*	33	U		9.5	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Diethyl phthalate, 3541 Low Solid*	67	U		9.5	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	4-Chlorophenyl phenyl ether, 3541 Low Sol*d	170	U		9.8	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Pentachlorophenol, 3541 Low Solid*	330	U		110	330	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	n-Nitrosodiphenylamine, 3541 Low Solid*	33	U		10	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	4,6-Dinitro-2-methylphenol, 3541 Low Soli*	670	U		170	670	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Phenanthrene, 3541 Low Solid*	61	U		15	50	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Anthracene, 3541 Low Solid*	15	J		11	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Carbazole, 3541 Low Solid*	170	U		12	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Di-n-butyl phthalate, 3541 Low Solid*	170	U		11	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Fluoranthene, 3541 Low Solid*	110	U		11	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Pyrene, 3541 Low Solid*	100	U		12	50	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Butyl benzyl phthalate, 3541 Low Solid*	67	U		10	67	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Benzo(a)anthracene, 3541 Low Solid*	53			9.8	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Chrysene, 3541 Low Solid*	73			10	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS											
Job Number: 231657						Date: 11/19/2004					
CUSTOMER: HKN Engineers, Inc.				PROJECT: USACE RYAAP 14 AOCs			ATTN: Eric Ellis				
Customer Sample ID: LL8es-015K-S0 Date Sampled.....: 11/02/2004 Time Sampled.....: 11:10 Sample Matrix.....: Soil						Laboratory Sample ID: 231657-18 Date Received.....: 11/04/2004 Time Received.....: 09:10					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QI FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	3,3-Dichlorobenzidine, 3541 Low Solid*	170	U	15	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Bis(2-ethylhexyl)phthalate, 3541 Low Solid*	62	J	32	170	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Di-n-octyl phthalate, 3541 Low Solid*	330	U	10	330	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Benzo(b)fluoranthene, 3541 Low Solid*	60	J	8.9	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Benzo(k)fluoranthene, 3541 Low Solid*	30	J	9.4	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Benzo(a)pyrene, 3541 Low Solid*	43	J	9.5	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Indeno(1,2,3-cd)pyrene, 3541 Low Solid*	25	J	10	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Dibenzo(a,h)anthracene, 3541 Low Solid*	33	U	9.5	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
	Benzo(ghi)perylene, 3541 Low Solid*	28	J	11	33	1.00000	ug/Kg	134462		11/16/04 1901	dpk
Method	% Solids Determination						%	133225		11/04/04 2331	ctb
	% Solids, Solid	97.1		0.10	0.10	1	%	133225		11/04/04 2331	ctb
	% Moisture, Solid	2.9		0.10	0.10	1	%				

\* In Description = Dry Wgt.

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Job Number: 231657		LABORATORY TEST RESULTS						Date: 11/18/2004				
CUSTOMER: MKN Engineers, Inc.			PROJECT: USAGE RVAAP 14 AOCs				ATTN: Eric Elt16					
Customer Sample ID: LL8ss-015M-S0 Date Sampled.....: 11/02/2004 Time Sampled.....: 11:10 Sample Matrix.....: Soil			Laboratory Sample ID: 231657-18 Date Received.....: 11/04/2004 Time Received.....: 09:10									
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	0.20	U		0.056	0.20	1.00000	mg/Kg	134710		11/09/04 2334	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	134710		11/09/04 2334	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	134710		11/09/04 2334	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	134710		11/09/04 2334	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	134710		11/09/04 2334	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134710		11/09/04 2334	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134710		11/09/04 2334	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	134710		11/09/04 2334	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134710		11/09/04 2334	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134710		11/09/04 2334	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	134710		11/09/04 2334	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134710		11/09/04 2334	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134710		11/09/04 2334	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134710		11/09/04 2334	san
8332M	NG/PETN by 8332M (HPLC)											
Nitroglycerine, Solid	0.50	U		0.12	0.50	1.00000	mg/Kg	134715		11/09/04 2126	san	

\* In Description = Dry Wgt.

STL CHICAGO

Client Sample ID: LL8ss-015M-SO

Trace Level Organic Compounds

Lot-Sample #....: G4K040343-007    Work Order #....: GV9KX1AA    Matrix.....: SOLID  
Date Sampled....: 11/02/04 11:10    Date Received...: 11/04/04  
Prep Date.....: 11/08/04    Analysis Date...: 11/11/04  
Prep Batch #....: 4313426  
Dilution Factor: 1    Initial wgt/Vol: 2 g    Final wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND		0.25	mg/kg	NONE UV/HPLC per

STL CHICAGO

Client Sample ID: IL8ss-015M-SO

General Chemistry

Lot-Sample #...: G4K040343-007      Work Order #...: GV9KX      Matrix.....: SOLID  
Date Sampled...: 11/02/04      Date Received...: 11/04/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.4 B	2.0	mg/kg	MCAW	353.2	11/09-11/12/04 431A547
			MDL.....			0.57

NOTE(S) :

- RL Reporting Limit
- B Estimated result. Result is less than RL.



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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004			
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 ADS				ATTN: Eric Ellis				
Customer Sample ID: LL8ss-016M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 16:05 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-12 Date Received.....: 11/03/2004 Time Received.....: 09:10								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination										
	% Solids, Solid	91.0		0.10	0.10	1	%	133223		11/04/04 2125	clb
	% Moisture, Solid	9.0		0.10	0.10	1	%	133223		11/04/04 2125	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5	U	0.46	1.5	1	mg/Kg	133656		11/09/04 0250	daj
7841	Thallium (GFAA) Thallium, Solid*	0.63	U	0.20	0.63	1	mg/Kg	134082		11/10/04 1453	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.12		0.0047	0.018	1	mg/Kg	133831		11/09/04 1604	gok
6010B	Metals Analysis (ICAP Trace)										
	Aluminum, Solid*	9400		2.5	15	1	mg/Kg	133922		11/10/04 1451	tds
	Barium, Solid*	120		0.16	1.0	1	mg/Kg	133922		11/10/04 1451	tds
	Arsenic, Solid*	11		0.52	1.5	1	mg/Kg	133922		11/10/04 1451	tds
	Beryllium, Solid*	0.66		0.045	0.41	1	mg/Kg	133922		11/10/04 1451	tds
	Cadmium, Solid*	0.63		0.082	0.26	1	mg/Kg	133922		11/10/04 1451	tds
	Calcium, Solid*	5600		3.2	10	1	mg/Kg	133922		11/10/04 1451	tds
	Chromium, Solid*	27		0.23	1.0	1	mg/Kg	133922		11/10/04 1451	tds
	Cobalt, Solid*	7.0		0.14	0.51	1	mg/Kg	133922		11/10/04 1451	tds
	Copper, Solid*	25		0.93	3.1	1	mg/Kg	133922		11/10/04 1451	tds
	Iron, Solid*	19000		3.1	10	1	mg/Kg	133922		11/10/04 1451	tds
	Magnesium, Solid*	2600		1.7	10	1	mg/Kg	133922		11/10/04 1451	tds
	Manganese, Solid*	430		0.13	1.0	1	mg/Kg	133922		11/10/04 1451	tds
	Nickel, Solid*	21		0.26	1.0	1	mg/Kg	133922		11/10/04 1451	tds
	Lead, Solid*	150		0.44	1.5	1	mg/Kg	133922		11/10/04 1451	tds
	Potassium, Solid*	1300		14	51	1	mg/Kg	133922		11/10/04 1451	tds

\* In Description = Dry Wgt.

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Job Number: 231611 LABORATORY TEST RESULTS Date: 11/17/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: USACE BNAAP 14-AOCS ATTN: Eric Ellis

Customer Sample ID: LL8ss-016M-SO  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 16:05  
 Sample Matrix.....: Soil

Laboratory Sample ID: Z31611-12  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.5	U		0.41	1.5	1	mg/Kg	133922		11/10/04 1451	tds
	Silver, Solid*	1.0	U		0.32	1.0	1	mg/Kg	133922		11/10/04 1451	tds
	Sodium, Solid*	250	B		89	310	1	mg/Kg	133922		11/10/04 1451	tds
	Vanadium, Solid*	17			0.22	1.0	1	mg/Kg	133922		11/10/04 1451	tds
	Zinc, Solid*	160			0.41	2.1	1	mg/Kg	133922		11/10/04 1451	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS			ATTN: Eric Ellis						
Customer Sample ID: LL8ss-016M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 16:05 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-12 Date Received.....: 11/03/2004 Time Received.....: 09:10									
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	0.20		U	0.055	0.20	1.00000	mg/Kg	134567		11/06/04 2310	san
	RDX, Solid	0.20		U	0.062	0.20	1.00000	mg/Kg	134567		11/06/04 2310	san
	1,3,5-Trinitrobenzene, Solid	0.098		U	0.032	0.098	1.00000	mg/Kg	134567		11/06/04 2310	san
	1,3-Dinitrobenzene, Solid	0.098		U	0.023	0.098	1.00000	mg/Kg	134567		11/06/04 2310	san
	Nitrobenzene, Solid	0.098		U	0.021	0.098	1.00000	mg/Kg	134567		11/06/04 2310	san
	2,4,6-TNI, Solid	0.098		U	0.023	0.098	1.00000	mg/Kg	134567		11/06/04 2310	san
	Tetryl, Solid	0.39		U	0.12	0.39	1.00000	mg/Kg	134567		11/06/04 2310	san
	2,4-Dinitrotoluene, Solid	0.098		U	0.025	0.098	1.00000	mg/Kg	134567		11/06/04 2310	san
	2,6-Dinitrotoluene, Solid	0.20		U	0.048	0.20	1.00000	mg/Kg	134567		11/06/04 2310	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20		U	0.045	0.20	1.00000	mg/Kg	134567		11/06/04 2310	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.29		U	0.093	0.29	1.00000	mg/Kg	134567		11/06/04 2310	san
	2-Nitrotoluene, Solid	0.20		U	0.047	0.20	1.00000	mg/Kg	134567		11/06/04 2310	san
	4-Nitrotoluene, Solid	0.20		U	0.049	0.20	1.00000	mg/Kg	134567		11/06/04 2310	san
	3-Nitrotoluene, Solid	0.20		U	0.052	0.20	1.00000	mg/Kg	134567		11/06/04 2310	san

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: NQM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-017N-S0 Date Sampled.....: 10/29/2004 Time Sampled.....: 11:35 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-22 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	96.7			0.10	0.10	1	%	133223		11/04/04 2156	clb
	% Moisture, Solid	3.3			0.10	0.10	1	%	133223		11/04/04 2156	clb
704f	Antimony (GFAA) Antimony, Solid*	1.4		U	0.45	1.4	1	mg/Kg	133763		11/09/04 1909	daj
784f	Thallium (GFAA) Thallium, Solid*	0.61		U	0.19	0.61	1	mg/Kg	134082		11/10/04 2355	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.037			0.0044	0.017	1	mg/Kg	133831		11/09/04 1635	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	15000			2.4	15	1	mg/Kg	133922		11/10/04 1643	tds
	Barium, Solid*	94			0.16	1.0	1	mg/Kg	133922		11/10/04 1643	tds
	Arsenic, Solid*	12			0.51	1.5	1	mg/Kg	133922		11/10/04 1643	tds
	Beryllium, Solid*	0.83			0.044	0.40	1	mg/Kg	133922		11/10/04 1643	tds
	Cadmium, Solid*	0.11		B	0.080	0.25	1	mg/Kg	133922		11/10/04 1643	tds
	Calcium, Solid*	3100			3.1	10	1	mg/Kg	133922		11/10/04 1643	tds
	Chromium, Solid*	22			0.22	1.0	1	mg/Kg	133922		11/10/04 1643	tds
	Cobalt, Solid*	9.7			0.14	0.50	1	mg/Kg	133922		11/10/04 1643	tds
	Copper, Solid*	19			0.90	3.0	1	mg/Kg	133922		11/10/04 1643	tds
	Iron, Solid*	27000			3.0	10	1	mg/Kg	133922		11/10/04 1643	tds
	Magnesium, Solid*	3200			1.7	10	1	mg/Kg	133922		11/10/04 1643	tds
	Manganese, Solid*	470			0.13	1.0	1	mg/Kg	133922		11/10/04 1643	tds
	Nickel, Solid*	22			0.25	1.0	1	mg/Kg	133922		11/10/04 1643	tds
	Lead, Solid*	25			0.43	1.5	1	mg/Kg	133922		11/10/04 1643	tds
	Potassium, Solid*	1700			14	50	1	mg/Kg	133922		11/10/04 1643	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS					Date: 11/17/2004					
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE RYANP 14 ADCS			ATTN: Eric Ellis						
Customer Sample ID: LL8ss-017M-S0 Date Sampled.....: 10/29/2004 Time Sampled.....: 11:35 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-22 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.5	U		0.40	1.5	1	mg/Kg	133922		11/10/04 1643	tds
	Silver, Solid*	1.0	U		0.31	1.0	1	mg/Kg	133922		11/10/04 1643	tds
	Sodium, Solid*	280	B		86	300	1	mg/Kg	133922		11/10/04 1643	tds
	Vanadium, Solid*	26			0.21	1.0	1	mg/Kg	133922		11/10/04 1643	tds
	Zinc, Solid*	130			0.40	2.0	1	mg/Kg	133922		11/10/04 1643	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MCM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-017M-S0 Date Sampled.....: 10/29/2004 Time Sampled.....: 11:35 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-22 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RE	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMx, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	134571		11/07/04 0750	san
	RDX, Solid	0.20	U		0.062	0.20	1.00000	mg/Kg	134571		11/07/04 0750	san
	1,3,5-Trinitrobenzene, Solid	0.099	U		0.032	0.099	1.00000	mg/Kg	134571		11/07/04 0750	san
	1,3-Dinitrobenzene, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134571		11/07/04 0750	san
	Nitrobenzene, Solid	0.099	U		0.021	0.099	1.00000	mg/Kg	134571		11/07/04 0750	san
	2,4,6-TNT, Solid	0.099	U		0.023	0.099	1.00000	mg/Kg	134571		11/07/04 0750	san
	Tetryl, Solid	0.39	U		0.12	0.39	1.00000	mg/Kg	134571		11/07/04 0750	san
	2,4-Dinitrotoluene, Solid	0.099	U		0.025	0.099	1.00000	mg/Kg	134571		11/07/04 0750	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134571		11/07/04 0750	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134571		11/07/04 0750	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.093	0.30	1.00000	mg/Kg	134571		11/07/04 0750	san
	2-Nitrotoluene, Solid	0.20	U		0.047	0.20	1.00000	mg/Kg	134571		11/07/04 0750	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134571		11/07/04 0750	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134571		11/07/04 0750	san

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 231611

Date: 11/17/2004

CUSTOMER: MKM Engineers, Inc.

PROJECT: USACE RMAAP 14 ADCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-018M-SO  
 Date Sampled.....: 11/01/2004  
 Time Sampled.....: 13:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 231611-26  
 Date Received.....: 11/03/2004  
 Time Received.....: 09:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination											
	% Solids, Solid	84.2			0.10	0.10	1	%	133222		11/04/04 2022	clb
	% Moisture, Solid	15.8			0.10	0.10	1	%	133222		11/04/04 2022	clb
7041	Antimony (GFAA) Antimony, Solid*	1.5		U	0.46	1.5	1	mg/Kg	133763		11/09/04 1808	daj
7841	Thallium (GFAA) Thallium, Solid*	0.62		U	0.20	0.62	1	mg/Kg	134082		11/10/04 1039	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.056			0.0051	0.020	1	mg/Kg	133831		11/09/04 1509	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			2.7	17	1	mg/Kg	133744		11/09/04 1814	tds
	Barium, Solid*	99			0.18	1.1	1	mg/Kg	133744		11/09/04 1814	tds
	Arsenic, Solid*	12			0.57	1.7	1	mg/Kg	133744		11/09/04 1814	tds
	Beryllium, Solid*	0.80			0.049	0.45	1	mg/Kg	133744		11/09/04 1814	tds
	Cadmium, Solid*	0.28		U	0.090	0.28	1	mg/Kg	133744		11/09/04 1814	tds
	Calcium, Solid*	3300			3.5	11	1	mg/Kg	133744		11/09/04 1814	tds
	Chromium, Solid*	33			0.25	1.1	1	mg/Kg	133744		11/09/04 1814	tds
	Cobalt, Solid*	10			0.16	0.56	1	mg/Kg	133744		11/09/04 1814	tds
	Copper, Solid*	22			1.0	3.4	1	mg/Kg	133744		11/09/04 1814	tds
	Iron, Solid*	25000		H	3.4	11	1	mg/Kg	133744		11/09/04 1814	tds
	Magnesium, Solid*	2700			1.9	11	1	mg/Kg	133744		11/09/04 1814	tds
	Manganese, Solid*	440			0.15	1.1	1	mg/Kg	133744		11/09/04 1814	tds
	Nickel, Solid*	27			0.28	1.1	1	mg/Kg	133744		11/09/04 1814	tds
	Lead, Solid*	25			0.48	1.7	1	mg/Kg	133744		11/09/04 1814	tds
	Potassium, Solid*	1100			16	56	1	mg/Kg	133744		11/09/04 1814	tds

\* In Description = Dry Wgt.

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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: MKM Engineers, Inc.			PROJECT: USACE R/VAMP 14 AOCs				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-018M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 13:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-26 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Selenium, Solid*	1.7	U		0.45	1.7	1	mg/Kg	133744		11/09/04 1814	tds
	Silver, Solid*	1.1	U		0.35	1.1	1	mg/Kg	133744		11/09/04 1814	tds
	Sodium, Solid*	290	B		97	340	1	mg/Kg	133744		11/09/04 1814	tds
	Vanadium, Solid*	22			0.24	1.1	1	mg/Kg	133744		11/09/04 1814	tds
	Zinc, Solid*	140			0.45	2.2	1	mg/Kg	133744		11/09/04 1814	tds

\* In Description = Dry Wgt.



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Job Number: 231611		LABORATORY TEST RESULTS						Date: 11/17/2004				
CUSTOMER: NKM Engineers, Inc.			PROJECT: USACE RVAAP 14 AGCS				ATTN: Eric Ellis					
Customer Sample ID: LL8ss-018M-S0 Date Sampled.....: 11/01/2004 Time Sampled.....: 13:50 Sample Matrix.....: Soil			Laboratory Sample ID: 231611-26 Date Received.....: 11/03/2004 Time Received.....: 09:10									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	HDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMx, Solid	0.20	U		0.056	0.20	1.00000	mg/Kg	134571		11/07/04 1000	san
	RDX, Solid	0.20	U		0.063	0.20	1.00000	mg/Kg	134571		11/07/04 1000	san
	1,3,5-Trinitrobenzene, Solid	0.10	U		0.033	0.10	1.00000	mg/Kg	134571		11/07/04 1000	san
	1,3-Dinitrobenzene, Solid	0.10	U		0.023	0.10	1.00000	mg/Kg	134571		11/07/04 1000	san
	Nitrobenzene, Solid	0.10	U		0.021	0.10	1.00000	mg/Kg	134571		11/07/04 1000	san
	2,4,6-TNT, Solid	0.10	U		0.024	0.10	1.00000	mg/Kg	134571		11/07/04 1000	san
	Tetryl, Solid	0.40	U		0.12	0.40	1.00000	mg/Kg	134571		11/07/04 1000	san
	2,4-Dinitrotoluene, Solid	0.10	U		0.026	0.10	1.00000	mg/Kg	134571		11/07/04 1000	san
	2,6-Dinitrotoluene, Solid	0.20	U		0.049	0.20	1.00000	mg/Kg	134571		11/07/04 1000	san
	2-Amino-4,6-Dinitrotoluene, Solid	0.20	U		0.045	0.20	1.00000	mg/Kg	134571		11/07/04 1000	san
	4-Amino-2,6-Dinitrotoluene, Solid	0.30	U		0.094	0.30	1.00000	mg/Kg	134571		11/07/04 1000	san
	2-Nitrotoluene, Solid	0.20	U		0.048	0.20	1.00000	mg/Kg	134571		11/07/04 1000	san
	4-Nitrotoluene, Solid	0.20	U		0.050	0.20	1.00000	mg/Kg	134571		11/07/04 1000	san
	3-Nitrotoluene, Solid	0.20	U		0.053	0.20	1.00000	mg/Kg	134571		11/07/04 1000	san

\* In Description = Dry Wgt.

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## LABORATORY TEST RESULTS

Job Number: 232168

Date: 12/02/2004

CUSTOMER: MCM Engineers, Inc.

PROJECT: USACE RVAAP J4 AGCS

ATTN: Eric Ellis

Customer Sample ID: LL8ss-019-S0  
 Date Sampled.....: 11/19/2004  
 Time Sampled.....: 08:50  
 Sample Matrix.....: Soil

Laboratory Sample ID: 232168-8  
 Date Received.....: 11/20/2004  
 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Vinyl chloride, Solid*	6.1	U	*	1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Bromomethane, Solid*	6.1	U		1.6	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Chloroethane, Solid*	6.1	U		1.2	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,1-Dichloroethane, Solid*	6.1	U		1.6	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Carbon disulfide, Solid*	6.1	U		1.5	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Acetone, Solid*	18	U		5.6	18	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Methylene chloride, Solid*	12	U		3.5	12	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	trans-1,2-Dichloroethane, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,1-Dichloroethane, Solid*	6.1	U		1.2	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	cis-1,2-Dichloroethane, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	2-Butanone (MEK), Solid*	18	U		4.7	18	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Bromochloromethane, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Chloroform, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,1,1-Trichloroethane, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Carbon tetrachloride, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Benzene, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,2-Dichloroethane, Solid*	6.1	U		1.1	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Trichloroethene, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,2-Dichloropropane, Solid*	6.1	U		1.2	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Bromodichloromethane, Solid*	6.1	U		1.2	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	cis-1,3-Dichloropropene, Solid*	6.1	U		1.1	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	4-Methyl-2-pentanone (MIBK), Solid*	12	U		1.2	12	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Toluene, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	trans-1,3-Dichloropropene, Solid*	6.1	U		0.96	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,1,2-Trichloroethane, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Tetrachloroethene, Solid*	6.1	U		1.5	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	2-Hexanone, Solid*	12	U		1.3	12	1.00000	ug/Kg	135792		11/30/04 1947	jdj

\* In Description = Dry Wgt.

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Job Number: 232168		LABORATORY TEST RESULTS						Date: 12/02/2004				
CUSTOMER: NCM Engineers, Inc.			PROJECT: USACE RVAAP 14 AOCs				ATTN: Eric Ellits					
Customer Sample ID: LL8ss-019-SO Date Sampled.....: 11/19/2004 Time Sampled.....: 08:50 Sample Matrix.....: Soil			Laboratory Sample ID: 232168-8 Date Received.....: 11/20/2004 Time Received.....: 09:00									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dibromochloromethane, Solid*	6.1	U		0.96	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,2-Dibromoethane (EDB), Solid*	6.1	U		1.0	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Chlorobenzene, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Ethylbenzene, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	m&p-Xylenes, Solid*	12	U		2.8	12	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	o-Xylene, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Styrene, Solid*	6.1	U		1.3	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Bromoform, Solid*	6.1	U		0.91	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,1,2,2-Tetrachloroethane, Solid*	6.1	U		1.2	6.1	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	1,2-Dichloroethene (total), Solid*	12	U		2.6	12	1.00000	ug/Kg	135792		11/30/04 1947	jdj
	Xylenes (total), Solid*	12	U		4.1	12	1.00000	ug/Kg	135792		11/30/04 1947	jdj

\* In Description = Dry Wgt.

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