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Tackets RS - COUNTYWIDE RUF Dates 3619 GRACEWINT ET SW 11:05 - 11:34 EAST SPARTA. DR 44626 PHONE: 1338:874-3858 FAX: 1330:874-2426 / NON APP CHECCEPT 13 / EMERGED ENVIRONMENTAL Trucks EN205 52480 Lhs Trailers 40130 Lbs Drigins PORTAGE / PORTAGE CAR 22260 Lbs Profile: 311606 / Receima Ar Comment: RGVS/MG SMIT Wastes & Services 15W(15 / 15W - 0 5 PER TU! Weighmasters LESLIE D Additional Descriptions for Materials Listed Above E Handling Codes for Wastes Listed Above 11a) 511008 C. a. SO1 0. b. d. 15 Special Handling Instructions and Additional Information a.EMERENCY (X)NTACT- 330-677-0785

, to GENERATOR'S CERTIFICATION: I certify the evolutions described above on this manifest not subject to federal regulations for reporting proper disposal of Piazardous Waste Printed, Typed Name CNGZR IRVING 17. Transporter | Acknowledgement of Receipt of Materials Printed Lyped Name 3003 18 Transporter 2 Acknowledgement of Receipt of Materials Printed, Typed Name Signature Mansh Oxxy 19 Discrepancy Indication Space 20 Facility Owner or Operator. Certification of receipt of waste materials covered by this monifest except as noted in Item 19

Generator's US EPAID No. NON-HAZARDOUS Manifest O.H.5(2.1.0.0.2.0.7.3.6) WASTE MANIFEST Ravenna Army Ammunition Plant Generator's Name and Mailing Address 8451 State Route 5 Ravenna OH 44266 4 Generator's Phone (\* 330 / 358-73<u>11</u> 5. Transporter 1 Company Name US ERAID Number A. Transporter's Phone Emerald Environmental Services 0 H R 0 0 0 1 0 2 0 5 3 1330) 677-0785 Transporte, 2 Company Name US EPA ID Number B. Transporter's Phone Designated facility Name and Site Address County Wide R.D.F. US EPA ID Number C. Facility's Phone 3619 Gracemont Ave. SW (330) 874-3855 East Sparta OH 44626 1). Waste Shipping Name and Description. 72. Carrolners Total Туре Cironitis MON-HAZARDOUS / NON-RCRA / NON D.O.T REGULATED MATERIALS (Wood Ash) CM 0002 Ž Additional Descriptions for Moterials (islad Above a. 11a), 511008 E. Mandling Codes for Wasses Listed Above a.801 ď. b. 15 Special Handling Instructions and Additional information a.EMERGENCY CONTACT -330-677-0785 16 GENERATOR'S CERTIFICATION: 1 certify above on this manifest are not subject to federal regulations for recording proper impact of thecordous that 17. Transporter | Acknowledgement of Receipt of Materials Pypop Transfers SHAUN 3. Framporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature 19. Discrepancy lodication Space 20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Heat 19. Printed Typed Nam

ORIGINAL - RETURN TO GENERATUR

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RE - COUNTAWIDE ROF Tocketh ISLEAD 36 3 BRACESON BI EN Date: 37/30/2003 EAST SPARTA, OH ++665 7196; 14:46 - 15:14 FRUNE: 12:00 374 3883 [FA7] 1136 673-348 Caskonski (3 - Emerald Envischmen Cal HOW APP Touck: EMEWS Gross: 38488 Los 28 drailar: Tare: 39980 Lbs 38 Origin: 2007ABE / 2007ABE ( Profile: Stidus - Rayenna Gra metr 13500 lbs Comment. RADESHA RAMY Wastes & Editions Quantity 19405 / 194 - 3/9 PER TON Weignmeatact LZSL (T

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Wy J KELLER & ASSOCIATES INC. 1 W 44957-0368	ETURN TO GENERATIVE		12-BLC-M

Manifest: MI8646313

DEQ

#### WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

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## EQ-THE ENVIRONMENTAL QUALITY CO. Michigan Disposal Waste Treatment Plant

49350 North I-94 Service Drive, Belleville, Michigan 48111

#### Receipt

BETTER MGMT CORP INC OF OHIO

P O BOX 9755

YOUNGSTOWN, OH 44513

Receipt ID: 340151

**EQ Account #: 3271** 

Manifest/BOL: MI8646313

Transporter: ENVIRITEOH

Date: 09/26/2003

Time In: 1:37 PM

Time Out: 3:33 PM

Line# Approval/Service Generator

D008

Waste Code Bill Unit Gross

Tare

Net

Quantity

01 081803MHF

OH5210020736 RAVENNA ARMY AMMUNITION DEPOT TONS

52,000

40,080

11,920

5.960

Hazardous Surcharge

I understand and acknowledge that entry into an EQ environmental protection facility is permitted only at my own risk. I, both personally and on behalf of my employer, release EQ-The Environmental Quality Company from any and all liability not caused by its gross negligence or willful misconduct.

**DELIVERED BY** 

	Thermony Contact  1. Ceremony Suscessions OH5210020736 Pavenua Army Ammun 8451 State Route 5 Revenue, Chio 4426 -7311	Mandest 2 Page Comment No. 912 Ltion Plant A Same	I pormation in the sharlest areas is not required by Federal law.  Markest Document Number  Generalty's ID
5, Prisponer Company Name Emerald Env. Servic 7. Parapoder 2 Company Name  9 Configured Facility Name and Sin Add Envirite Of Ohio, I 2050 Central Avenue Canton, Ohio 44707	es, Inc.   OHROO	D Traus US EPA ID Number E State US EPA ID Number G State H Facilit	Prinsperiers ID poster's Phone's ID poster's Phone Facility's ID ye Phone 456-6238
11. USEART Department (Indicating Proper	Swowy Name Parant Cuss and 10 Num	iber) 12. Gontainera No. Fype	13 18 Unit Charles Waste No.
A CC	CAbove EG#171	K. Pardi	ng Codes for Wasina Ested Abova
Josef Life 9  15. Special Harding Instructions and Addit  EMERGENCY CONTAST:  16. GENERATOR'S CERTIFICATION: I had packed, marked, and unlead, and are in all packed, marked, and unlead, and are in all packed.	330-677-0785	ment are fully unit arcutately described above applicable membranisms.	e by proper shipping name and are classified, not called governmental requiations.
If I am a large quantity getterator if certify practiceate and that there as selected me and the environment. On It I am it is small a evaluate to me such that I can affect.  PrintedTyped Name  I PUIN /FN/6F ( I anaported I acknowledgement of Rec.  PrintedTyped Name  I MAY / I AM/6F ( I anaported I Acknowledgement of Rec.  PrintedTyped Name	that Figure a program in place to care as the contract in matter and the adoption of department, storage, or department in paper and it have made, a good faith of Signa eight of Maradais.  Signa	volume and toxicity of waste generated to the oreal surrently available to me which minimize from its minimize my waste generation and sel- ture.	Adaptes   have determined to be ecceptimically of the present and future tingst to human health-ectible been waste management method that is:    Month Day Year   1 0 7 0 3
Temporar 2 Acknowledgement of Rec.     Finded Typed Name     Type Discrepancy Indication Space     Type	Sign		Manth Day (ea)
Printed/Typed Name	✓ Signa	ture — Comment	Month Day Year V27785

TRANSPORTER #1

# ENVIRITE OF OHIO, INC. CANTON, OHIO 44707

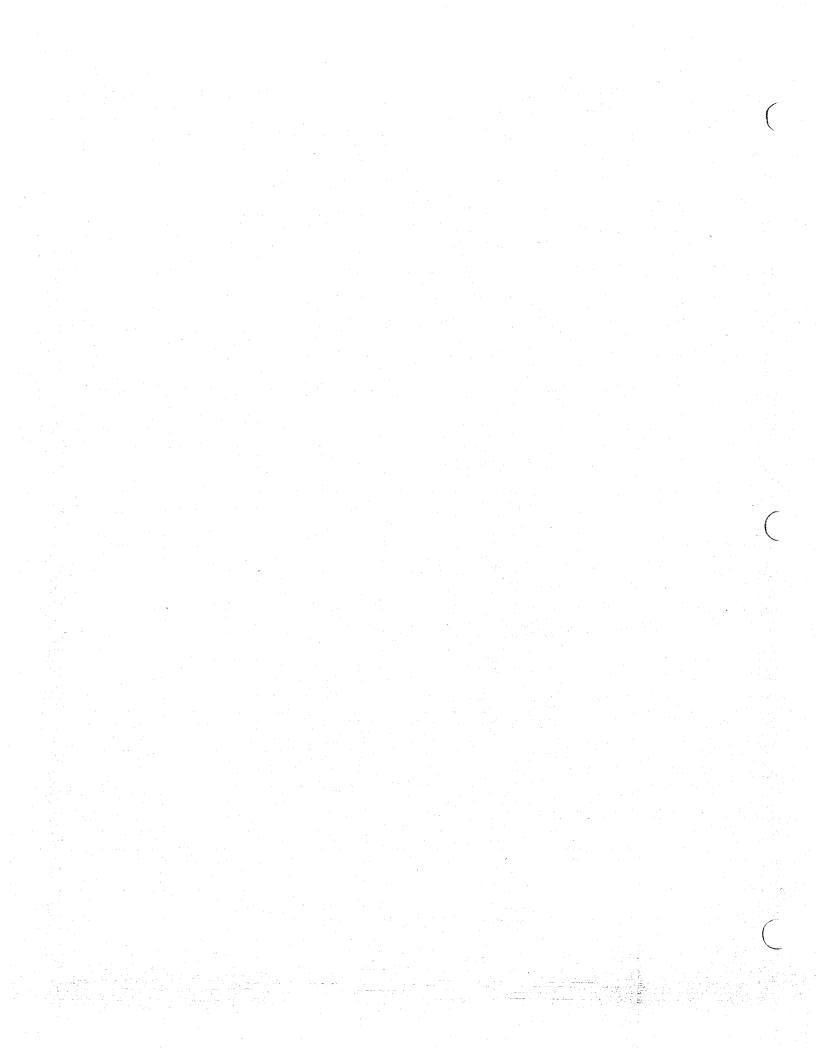
WEIGHT TALLY	NUMBER
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REMARKS.	EMERICA
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	-4654D In Gross
	710) Ib Het E 1840 Ib Tare
	12:34 Fi 10/07/03
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ENVIRITE OF OHIO INC., WEIGHER	
BRECHBUHLER SCALES	
<b>建</b>	

Personal State (1995) (				
NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	Manifest Doc No. 2. P. 9. 0. 0 1 2 of	ige 1 KE	77.00
3. Generators Name and Mailing Address		Arsenal		
	8451 St. Rayenna	ate Rt 5 , OH 44266		
4. Generator's Phone ( 330 ) 358-2 5. Transporter 1 Company Name	920		ansporter's Phone	
73.07 50			ASS.	•
7. Transporter 2 Company Name	8 USEPĀ	ID Number B. Tr	130-484-242 ansporters Phone	
9. Designated Facility Name and Site Address	10 US EPA	D Number C. Fa	cility's Phone	
Minerva Enterprises			1 21 42 4 1	
9000 Minerva Rd: Waynesburg, OH 44688	****			
11. Waste Shipping Name and Description	ATT SOLETHINE WAS ARREST ARREST OF THE SOLETHING ARRES	*	12. Containers	13. 14. Total Unit
a	<u> </u>		No Type	Quantity Wt/Vol
	inger S <b>ain_4</b> L <b>4</b> — Silen × £8 in Sile <b>4</b> .			32 (25)
DOT-Nonregulated mat	eriai, constructio	n debris,		
0				
Au.	· ·			
D. Additional Descriptions for Materials Listed Above			idling Codes for Wastes	Listed Above
a) concrete rubble an	d ash, generated f	com wet		
storage	· · · · · · · · · · · · · · · · · · ·			set 15
15. Special Handling Instructions and Additional Information			karlander (h. 1945) 1946 Marier (h. 1945)	
	S. Dimes			
	The same and the s		Are and a second	
#6. GENERATOR'S CERTIFICATION: I certify the material Printed/Typed Name #46-77 Fox	erials described above on this manifest are not	subject to federal regulations for r	porting proper disposal of	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Michael Composite	ing lattie W	he Stewart		Month Day Year
17: Transporter I Acknowledgement of Receipt of Mate	The state of the s			
Printed/Typed Name  DEAN  MA	Signature			Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Mate				
Printed/Typed Name	Signature			Month : Day := Year
19 Discrepancy Indication Space				
20. Facility Owner or Operator, Certification of receipt o	waste materials covered by this manifest	except as noted in Item 19		
Printed/Typed Name	Signature /	n 3 1 70	Y	Month Day Year
LOREJET KEN	THEY IN HOLD	ESTEEN	277	Month Day Year
dbyelvelene sooatesand #2550			12.31	C650V12/98
	TRANSPORTER #	2		

1. N. W. W. W. W. W.

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2.0	NON-HAZARDOUS WASTE MANIFEST	1. Generator's U D ≥ 5 Z . I	S EPA ID No. Manifest Doc. No. 0 0 2 0 7 3 6 8 90 5 3	2. Pag	je 1	KE	77		
1	Generator's Name and Mailing Address     Generator's Phone ( 330 ) 358-29	***	Ravenna Arsenal 8451 State Rt 5 Ravenna, OH 44266				. 1348 .		
	5. Transporter 1 Company Name  JMW Trucking  7. Transporter 2 Company Name	The same	6. US EPA ID Number	33	nsporter's F 30-484 nsporter's 1	4-24	28	· · · · · · · · · · · · · · · · · · ·	
	9. Designated Facility Name and Site Address Minerva Enterprises 9000 Minerva Rd.	10 = x	10. US EPA ID Number	X	ility's Phone	50			
	Waynesburg, OH 44688  11 Waste Shipping Name and Description	C #(10)			30-866 12. Cont		33	13.	14.
			*	·	No.	Туре	0	Total Quantity	Unit Wt/Vol
	DOT Non-regulated mai	erial (	onstruction debris)	ar E	001	10	*	ZO.	7
GENE	<b>b</b> .				<b>v</b>				
RATOR	C.	· · · · · · · · · · · · · · · · · · ·						de de desagn	
	d.	27		·					
	a) concrete rubble and storage  15. Special Handling Instructions and Additional Information and Information an	3-3 A	1	* .		e ()	: +	s	
	Wet Storage Ares		debris						
	Emergency Contact	t: 220-	122-0774						
	16. GENERATOR'S CERTIFICATION: I certify the ma			ons for ro	norting propo	ar dienac	al of U-	zzardouć Mico	te.
/	Printed/Typed Name Patterson	7	Signature Signature	and for re	Porturing prope	., uispus		Jonth Day	Year
	17 Transporter J Acknowledgement of Receipt of Material Printed/Typed Name Denn's Mathri	, , , , , , , , , , , , , , , , , , , ,	Signature`	<u> </u>			M	onth Pay	Year O3
	Transporter 2 Acknowledgement of Receipt of Mat Printed/Typed Name	erials	Signature					onth Day	Year
	19. Discrepancy Indication Space								
	20. Facility Owner or Operator: Certification of receipt of	of waste materials c		19.		·			
	Printe Typed Name Shanou Perry		Signature Pouron Pol	N			Mo	onth Day	Year OS
TELESCO.	GBD/JEFF/REILIERENASSOCIATESNING JB: WIG-1957/0358	TR	ANSPORTER #2			12.6	LS-C	i6 Rev₃	2/98

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	2 T	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US	PAID No.	Manifest Doc. N	lo 2 Pac	je 1	KE	77	
		B. Generator's Name and Mailing Address		8451	na Arsena State Rt	5		:	*	-
ĺ		Generator's Phone ( 330 ) 358-292  Transporter 1 Company Name	20 -	<u> </u>	na, OH 44.				· . · · ·	
		JMW Trucking		USEPA	ID Number	ı	nsporter's F <b>0-48</b> 4		28	
	7.	Transporter 2 Company Name	8.	US EPA	ID Number	B. Tra	nsporter's	Phone		
	9.	Designated Facility Name and Site Address		US EPA	D Number	C. Fag	lity's Phone	<del></del>		
		Minerva Enterprises 9000 Minerva Rd.	garage and a second		- ( )	1	330-8	ラン 66-1	3433	
	11	Waynesburg OH 4468{ 1. Waste Shipping Name and Description	(A) = **		XX ···	* .	12. Cont		13. Total	14. Unit
	a.			\ / IX	· · ·		No.	Туре	Quantity	Wt/Vol
		DOT Non-regulated mat	erial (eo	ns ruction	q debris)	4 . 1 . 5	001.	R.O	0.0013	Y
	b.			· · · · · · · · · · · · · · · · · · ·		:	4.7 4.7			
	<b>C</b> .		5a	-	:		especial of	,		
	d.			g .	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •	3	والمستقد والمراشقين والم	,
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	15	a) concrete rubble, a Special Handling Instructions and Additional Infor	s. **	neraterd	,from wet	stor	age		t : e	
	15.	Special Flandling Instructions and Additional Infor	/					-		
		Emergency Con	TACT : 3	ao 6330	724					
	16.	GENERATOR'S CERTIFICATION: 1 certify the ma	,4 80			ations for re	porting prope	er disposa	al of Hazardous Was	te.
	1	Printed/Typed Name Patterson		Signature	l Path			:	Month Day	p 3
-		Transporter 1 Acknowledgement of Receipt of Ma Printed/Typed Name	erials	Signature					Month Day	Year
1	18.	Transporter 2 Acknowledgement of Receipt of Mat	erials						11-11-11	اسط
	. 1	Printed/Typed Name		Signature				e e e e e e e e e e e e e e e e e e e	Month Day	Year.
1	9. I	Discrepancy Indication Space					••			
2	0. F	Facility Owner or Operator: Certification of receipt	of waste materials cov	ered by this manifest	except as noted in Ite	em 19.				
		Printed/Typed Name  DNAMON PLYNY		Signature	Resse	House		: :	Month Day	Year   O S
did silve	by LW	FORELERICANS OCINTES INC. TO THE SECOND STATES OF THE SECOND SECO	TRA	NSPORTER #	a desiring			12.8	LS-C6 Rev	2/98



	Summary Table	
	LL6 Non Hazardous As	sh
Date	Weight ticket #	Tons
8/7/2003	335552	23.28
8/11/2003	336360	23.76
8/11/2003	336216	23.43
8/12/2003	336796	23.4
8/12/2003	336639	18.37
	Total	112.24

	Summary Table	
	LL9 Hazardous Ash	
Date	Weight Ticket #	Tons
9/26/2003	340151	5.96
10/7/2003	654530	3.55
	Total	9.51

	LL9 Non Hazardous As	sh
Date	Weight Ticket #	Tons
9/30/2003	351345	9.25
9/30/2003	351189	11.18
	Total	20.43

Summary of LL 6 & 9 Lead Floor Ash Was		Samples
Parameter (Method No., Units)	LL6 Floorash-WC	LL9 Floorash-WC
Sample Date	6/13/2003	6/13/2003
Lead (SW6010 μg/L)		
Lead	64300	63800
Organics (SW8015DRO mg/kg)		
TPH-DRO (Diesel Range Organics)	180	180
	LL6-9 Flo	oorash-WC
Sample Date	6/17/	/2003
Asbestos		
Asbestos	N	AD
BQL = Below Quantitational Limit	mg/kg = miligrams per kilogr	am
NAD = No Asbestos Detected	$\mu g/L = micrograms per liter$	

Sample Date CB Analysis (SW8082 μg/kg' Arocler 1016 Arocler 1221 Arocler 1232 Arocler 1248 Arocler 1254 Arocler 1254 Arocler 1260 Explosives (8330 μg/kg) HMX RDX 1,3,5-Trinitrobenzene Nitrobenzene Nitrobenzene 2,4,6-Trinitroluene Tetryl 2,4-Dinitrotoluene m-Nitrotoluene m-Nitrotoluene p-Nitrotoluene d-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP μg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury Drganics (SW8015DRO μg/kg) TPH-DRO (Diesel Range Organics) Pesticides (SW8081A / SW8151A_TCLP μg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D POC'S (SW8260B_TCLP μg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chlorobenzene Chloroform Tetrachloroethylene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene Trichloroethene	7/8/2003  BQL BQL BQL BQL BQL BQL BQL BQL BQL BQ	7/8/2003  BQL BQL BQL BQL BQL BQL BQL BQL BQL BQ
Arocler 1016 Arocler 1221 Arocler 1232 Arocler 1242 Arocler 1248 Arocler 1254 Arocler 1254 Arocler 1260 xplosives (8330 µg/kg) HMX RDX 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene Nitrobenzene 2,4,6-Trinitroluene Tetryl 2,4-Dinitrotoluene m-Nitrotoluene m-Nitrotoluene p-Nitrotoluene d-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
Arocler 1221 Arocler 1232 Arocler 1242 Arocler 1248 Arocler 1254 Arocler 1260  Explosives (8330 µg/kg) HMX RDX 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 1,3-Dinitrobenzene Nitrobenzene 2,4,6-Trinitroluene Tetryl 2,4-Dinitrotoluene m-Nitrotoluene d-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
Arocler 1232 Arocler 1242 Arocler 1248 Arocler 1254 Arocler 1260 xplosives (8330 μg/kg) HMX RDX 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 1,3-Dinitrobenzene 2,4,6-Trinitroluene Tetryl 2,4-Dinitrotoluene m-Nitrotoluene o-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP μg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO μg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP μg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP μg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
Arocler 1242 Arocler 1248 Arocler 1254 Arocler 1260 splosives (8330 µg/kg) HMX RDX 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene Nitrobenzene 2,4,6-Trinitroluene Tetryl 2,4-Dinitrotoluene m-Nitrotoluene o-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
Arocler 1248 Arocler 1254 Arocler 1250 xplosives (8330 µg/kg) HMX RDX 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene Nitrobenzene 2,4,6-Trinitroluene Tetryl 2,4-Dinitrotoluene 0-Nitrotoluene 0	BQL	BQL
Arocler 1254 Arocler 1260  kplosives (8330 µg/kg) HMX RDX 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene Nitrobenzene 2,4,6-Trinitroluene Tetryl 2,4-Dinitrotoluene	BQL	BQL
Arocler 1260  xplosives (8330 µg/kg)  HMX  RDX  1,3,5-Trinitrobenzene  1,3-Dinitrobenzene  Nitrobenzene  2,4,6-Trinitroluene  Tetryl  2,4-Dinitrotoluene  m-Nitrotoluene  m-Nitrotoluene  p-Nitrotoluene  p-Nitrotoluene  4-Amino-2,6-Dinitrotoluene  2-Amino-4,6-Dinitrotoluene  CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic  Barium  Cadmium  Chromium  Lead  Selenium  Silver  Mercury  rganics (SW8015DRO µg/kg)  TPH-DRO (Diesel Range Organics)  esticides (SW8081A / SW8151A_TCLP µg/L)  Chlordane  Endrin  Gamma-BHC (Lindane)  Heptachlor Epoxide  Methoxychlor  Toxaphene  2,4,5-TP(Silvex)  2,4-D  OC's (SW8260B_TCLP µg/L)  1,1-Dichloroethene  1,2-Dichloroethene  1,2-Dichloroethene  1,4-Dichlorobenzene  2-Butanone  Benzene  Carbon Tetrachloride  Chloroform  Tetrachloroethylene	BQL  BQL  BQL  BQL  BQL  BQL  BQL  BQL	BQL  BQL  BQL  BQL  BQL  BQL  BQL  BQL
xplosives (8330 μg/kg)  HMX  RDX  1,3,5-Trinitrobenzene  1,3-Dinitrobenzene  Nitrobenzene  2,4,6-Trinitrtoluene  Tetryl  2,4-Dinitrotoluene  m-Nitrotoluene  p-Nitrotoluene  d-Amino-2,6-Dinitrotoluene  2-Amino-4,6-Dinitrotoluene  2-Amino-4,6-Dinitrotoluene  CLP Metals (SW6010B / SW7471A_TCLP μg/Arsenic  Barium  Cadmium  Chromium  Lead  Selenium  Silver  Mercury  rganics (SW8015DRO μg/kg/TPH-DRO (Diesel Range Organics)  esticides (SW8081A / SW8151A_TCLP μg/L)  Chlordane  Endrin  Gamma-BHC (Lindane)  Heptachlor Epoxide  Methoxychlor  Toxaphene  2,4,5-TP(Silvex)  2,4-D  OC's (SW8260B_TCLP μg/L)  1,1-Dichloroethene  1,2-Dichloroethene  1,2-Dichloroethene  1,2-Dichloroethene  1,4-Dichlorobenzene  2-Butanone  Benzene  Carbon Tetrachloride  Chloroform  Tetrachloroethylene	BQL	BQL
HMX RDX  1,3,5-Trinitrobenzene  1,3-Dinitrobenzene  Nitrobenzene  2,4,6-Trinitrtoluene Tetryl  2,4-Dinitrotoluene m-Nitrotoluene m-Nitrotoluene p-Nitrotoluene d-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg/TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
RDX  1,3,5-Trinitrobenzene  1,3-Dinitrobenzene  Nitrobenzene 2,4,6-Trinitrtoluene Tetryl 2,4-Dinitrotoluene 2,6-Dinitrotoluene m-Nitrotoluene o-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
1,3,5-Trinitrobenzene 1,3-Dinitrobenzene Nitrobenzene 2,4,6-Trinitroluene Tetryl 2,4-Dinitrotoluene 2,6-Dinitrotoluene m-Nitrotoluene o-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
1,3-Dinitrobenzene Nitrobenzene 2,4,6-Trinitrtoluene Tetryl 2,4-Dinitrotoluene 2,6-Dinitrotoluene m-Nitrotoluene o-Nitrtotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
2,4,6-Trinitrtoluene Tetryl 2,4-Dinitrotoluene 2,6-Dinitrotoluene m-Nitrotoluene p-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhloroform Tetrachloroethylene	BQL	BQL
Tetryl 2,4-Dinitrotoluene 2,6-Dinitrotoluene m-Nitrotoluene o-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP μg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO μg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP μg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP μg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
2,4-Dinitrotoluene 2,6-Dinitrotoluene m-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg/TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
2,6-Dinitrotoluene m-Nitrotoluene o-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL BQL BQL BQL BQL BQL BQL Constant Separate Se	BQL
m-Nitrotoluene o-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL BQL BQL BQL BQL CONTROL CO	BQL
o-Nitrotoluene p-Nitrotoluene 4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP μg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO μg/kg), TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP μg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP μg/L), 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhloroform Tetrachloroethylene	BQL BQL BQL L) BQL 2500 BQL BQL BQL BQL BQL BQL 679 BQL BQL BQL	BQL
p-Nitrotoluene  4-Amino-2,6-Dinitrotoluene  2-Amino-4,6-Dinitrotoluene  CLP Metals (SW6010B / SW7471A_TCLP μg/Arsenic Barium  Cadmium  Chromium  Lead  Selenium  Silver  Mercury  rganics (SW8015DRO μg/kg)  TPH-DRO (Diesel Range Organics)  esticides (SW8081A / SW8151A_TCLP μg/L)  Chlordane  Endrin  Gamma-BHC (Lindane)  Heptachlor Epoxide  Methoxychlor  Toxaphene  2,4,5-TP(Silvex)  2,4-D  OC's (SW8260B_TCLP μg/L)  1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene  2-Butanone  Benzene  Carbon Tetrachloride  Chloroform  Tetrachloroethylene	BQL BQL BQL L) BQL 2500 BQL	BQL
4-Amino-2,6-Dinitrotoluene 2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP µg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL BQL L) BQL 2500 BQL BQL 679 BQL BQL BQL BQL	BQL BQL BQL BQL BQL BQL BQL BQL BQL 970 BQL BQL
2-Amino-4,6-Dinitrotoluene CLP Metals (SW6010B / SW7471A_TCLP μg/Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO μg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP μg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP μg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL L) BQL 2500 BQL BQL 679 BQL BQL BQL BQL BQL	BQL BQL BQL BQL 970 BQL BQL BQL
CLP Metals (SW6010B / SW7471A_TCLP µg/ Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	L)  BQL 2500 BQL BQL 679 BQL BQL BQL BQL	BQL BQL BQL BQL 970 BQL BQL
Arsenic Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL 2500 BQL BQL 679 BQL BQL	BQL BQL BQL 970 BQL BQL
Barium Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	2500 BQL BQL 679 BQL BQL BQL	BQL BQL BQL 970 BQL BQL
Cadmium Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg), TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L), 1,1-Dichloroethene 1,2-Dichloroethene 1,4-Dichloroethene 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL BQL 679 BQL BQL	BQL BQL 970 BQL BQL
Chromium Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Clhloroform Tetrachloroethylene	BQL 679 BQL BQL	BQL 970 BQL BQL
Lead Selenium Silver  Mercury rganics (SW8015DRO µg/kg), TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clihlorobenzene Chloroform Tetrachloroethylene	679 BQL BQL	970 BQL BQL
Selenium Silver  Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clihlorobenzene Chloroform Tetrachloroethylene	BQL BQL	BQL BQL
Mercury rganics (SW8015DRO μg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP μg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP μg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BQL	BQL
Mercury rganics (SW8015DRO µg/kg) TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	_	
rganics (SW8015DRO µg/kg), TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L), 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	BOL.	DOI
rganics (SW8015DRO µg/kg), TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L), 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene		
TPH-DRO (Diesel Range Organics) esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Chloroform Tetrachloroethylene	DQL	BQL
esticides (SW8081A / SW8151A_TCLP µg/L) Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichloroethane 1,4-Dichloroethane 1.4-Dichloroethane Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	21	180
Chlordane Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clihlorobenzene Chloroform Tetrachloroethylene	21	180
Endrin Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clihlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
Gamma-BHC (Lindane) Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clihlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
Heptachlor Epoxide Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
Methoxychlor Toxaphene  2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
Toxaphene  2,4,5-TP(Silvex) 2,4-D  OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BOL
2,4,5-TP(Silvex) 2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	- 4-	
2,4-D OC's (SW8260B_TCLP µg/L) 1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BOL
OC's (SW8260B_TCLP µg/L)  1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clihlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clihlorobenzene Chloroform Tetrachloroethylene	·	
1,4-Dichlorobenzene 2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
2-Butanone Benzene Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
Carbon Tetrachloride Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
Clhlorobenzene Chloroform Tetrachloroethylene	BQL	BQL
Chloroform Tetrachloroethylene	BQL	BQL
Tetrachloroethylene	BQL	BQL
	BQL	BQL
Trichloroethene	12	25
	BQL	BQL
Vinyl Chloride	BQL	BQL
VOC's (SW8270C_TCLP µg/L)		
1,4-Dichlorobenzene	BQL	BQL
2,4,5-Trichlorophenol	BQL	BQL
2,4,6-Trichlorophenol	DQL	BQL
2,4-Dinitrotoluene	BQL	BQL
2-Methylphenol	BQL BQL	BQL
3&4-Methylphenol	BQL BQL BQL	BQL
Hexachlorobenzene	BQL BQL BQL BQL	
Hexachlorobutadiene	BQL BQL BQL BQL BQL	BQL
Hexachloroethane	BQL BQL BQL BQL	
Nitrobenzene	BQL BQL BQL BQL BQL BQL	BQL
Pentachlorophenol	BQL BQL BQL BQL BQL BQL	BQL BQL
Pyridine	BQL BQL BQL BQL BQL BQL	BQL BQL BQL
QL = Below Quantitational Limit μg/	BQL BQL BQL BQL BQL BQL BQL BQL	BQL BQL BQL BQL

Aralution!

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## AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

#### CERTIFICATE OF ANALYSIS

PAJYKI PAJE YN AHIN

Client:

MKM Engineers

Job Name:

Rayenna Army Ammunition Plant/LL#6 & 9

Chain Of Custody:

114049

Address:

4153 Blue Bonnet Drive

Job Location:

Not Provided

Date Analyzed:

06/24/2003

Stafford, Texas 77477

Job Number:

02074

Person Submitting:

James Pannzzo

P.O. Number:

LA604-02081

Attention:

Brian Stockwell/James Panezzo

Page 1 of 1

### Summary of Polarized Light Microscopy

Commence of the commence of th	Approximate the contract of th	· · · · · · · · · · · · · · · · · · ·	A CONTRACTOR OF THE PROPERTY O	**************************************	Action of the second	on the second			**************************************						
AMA Sample Number	Client Sample#	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos	Weal	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
						Percent	Percent								
Construence - Industrial processing								maning in a spirit	egyptypytyten ten en en ei fan en eiliter fer fer fer eile De eile gesten eile fer fer fer fer fer fer eile fer fer fer fer fer fer fer fer fer fe	etransconner - 600 instance Bourne, - 19, 19 distribution and man	manus salagement escoperation acco		***************************************	0.000.000.000.000.000.000.000.000.000.	Market Committee
														5	
0351385	LL6-9-Floor	NAD	. Tables	mir.	994	**************************************	TR		TR	***	**	100	Black	CK	
	Ash-WC														

The following features only apply to those samples which the total asbestos result is flagged with a note number.

- TEM RECOMMENDATION Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for assestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/680/R-93/116 dated July 1993

NAD = "No Asbestos Detected"

TR = "Truce equals less than 1% of this component"

Cyple Kollam

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the ctient to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and limbility for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NYLAP Accorditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples.

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## AMA Analytical ferrices. Inc.

4475 Forbes Blvd. • Lanham, MD 20706

ATHA (#8863) NVLAP (#1143) NV GLAP (10920)

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires)

<del>-2107062-</del>

(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643 MAILING ADDRESS: 1. Submitted Date: 6-17-03

1. Submitted Date: 6-17-03

2. Client Name: MEM Engineers, Inc. Job H: 02074

3. Street/RFD/P.O. Box: 845/5t Rtc. 5

4. City, State, Zip: Ravenna, Ohio 44266

1. Phone #: 230-358-2920

5. Contact Person: Brian Stock well / James language Submitted By: James language (Nignature) 1. Submittat Date: 6 -17 -0 3 6. DATE & TIME RESULTS REQUIRED: No Cha / , Time: \_\_\_\_ AM \_\_ IMMED. \_\_\_ 24HR \_\_\_ 48HR 472HR \$\mathbb{M}\_5.DAY \text{ OTHER(Specify):\_\_\_\_\_\_\_ SAMPLE DATA: 1. Annitysis Type: Ashestos Clead ONOB-Whole(PLM/TEM) CINOB-Whole(PLM Only) ONOB-Whole(TEM Only) ONOB-Res. Ash(TEM) OTCLP for Pb Other(specify): 2. Total Number Of Samples: TBM PCM PLM LEAD OTHER (Specify) Wask Characterization - Floor Ash 3. ELECTRON MICROSCOPY SAMPLES: A. Filter Type: PC MCH D. Porosity: C. Diameter 37mm 25mm 4. LEAD SAMPLES Wipe Type: Puce Profinest Climat Clayax Products Cother (specify) 5. Release Criteria/Analytical Sensitivity: 0.010 t/ce 0.005 Heell ATHERA L %ASBESTOS [] S/EE2 OTHER [] 6. Field Sheet Attached? LIYES □NO If No Than Please Complete The Following: SAMPLE ANALYSIS INFORMATION ANALYSIS MATRIX CLIENT CONTACT CLIBNUID VOLUME WIPE SAMPLELOCATION DATE OFFICE AREA TEM FCM PLM LEAD OTHER AIR BLANK BULK WIPE NUMBER (LABORATORY STAFF ONLY) 46-9-FloorAsh-W LL 609 6-17-03 802 Date/Time: Contact: By: Date/Time: Contact: Bv: Date/Time: Contact: By: REPORTING DATA: 1. Verbal Results To Whom? Name:\_\_\_\_ Phone: Beeper:\_\_\_\_ 2. Date Written Results Required \_\_\_\_ LABORATORY STAFF ONLY: (CUSTODY) 1. Date/Time RCVD: / / @ Via: By (Print): Sign: 2. Date/Time Analyzed: \_\_\_\_/ \_\_\_ @ \_\_\_\_ By (Friet): \_\_\_\_\_ Sign: \_\_\_\_\_ 4. Comments: \_\_

## Analytical Report For 307054

for

MKM Engineers, Inc.

Project Manager: Brian Stockwell

Project Name: LL6,9 & WS Demo

August 22, 2003

**GPL** 

Laboratories

GPL Laboratories, LLLP Certifies that the test results meet all regularements of the NELAC Standards unless otherwise noted.

Reviewed by,"

Project Manager

Approved by,

Laboratory Director

202 Perry Parkway Gaithersburg, MD 20877 Phone (301) 926-6802 Fax: (301) 840-1209 www.gplab.com

TOTAL # OF PAGES :\_ 3/\_\_



#### CASE NARRATIVE

CLIENT:

MKM ENGINEERS, INC.

PROJECT/SITE:

LL6.9 & WS DEMO

WORK ORDER(S):

307054

**REVIEW DATE:** 

8/22/03

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

#### Sample Receipt

Two soil samples were received on 07/10/2003 The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

#### Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m". Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report

#### Volatile Analysis

- Two soil samples were analyzed for TCLP compounds using 8260B methodologies. 1.
- The matrix spike analyses were performed on sample LL6-FLOORASH-WC. All QC criteria were met
- Two laboratory control sample (LCS) reports were submitted with this package. 3.

#### Semivolatile TCLP

- 1. Two soil samples were digested and extracted using method 3510C. The samples were analyzed for semivolatile TCLP compounds using method 8270C.
- 2. Matrix spike analysis was shared with work order #307056. A laboratory control sample was extracted and analyzed with this batch. Two spike recoveries were above QC limits for the LCS analysis.

#### Pesticides 8081

- Two soil samples were extracted and analyzed for TCLP Pesticide compounds using method 8081ATCLP
- Matrix spike was shared with work order 307056 on sample DRUM#4. A laboratory control spike sample was extracted and analyzed with the samples.
- 3. Endrin failed to pass QC limts for Continuing files U007385, U007388 and U007400, None of the samples indicate the presence of the failed compound and samples were not re-analyzed.



#### **CASE NARRATIVE**

- 4. Concentrations reported on Form 1 are the higher values of results generated two columns. However the analyst determines the most reliable results based on the evaluation of quality control parameters. Flagged concentrations (\*) on Form 1 indicate that reported results are the lower values.
- 5. All other analyses met QC criteria.

#### **PCBs**

- 1. Two soil samples were extracted and analyzed for PCB compounds using method 8082A.
- 2. MS/MSD was shared with work order 307068. A laboratory control spike sample was extracted and analyzed with this sample:
- 3. All QC criteria were met.

#### **Herbicides**

- Two soil samples were extracted and analyzed for Herbicide compounds using method 8151A TCLP.
- 2. A laboratory control spike sample was extracted and analyzed with this sample
- 3. MS analysis was shared with work order 307054.
- 4. All QC criteria were met.
- 5. Concentrations reported on Form 1 are the higher values of results generated two columns. However the analyst determines the most reliable results based on the evaluation of quality control parameters. Flagged concentrations (\*) on Form 1 indicate that reported results are the lower values.

#### Total Petroleum Hydrocarbons

- 1. Two soil samples were extracted and analyzed for TPH DRO using SW8015 methodologies.
- One laboratory control sample (LCS) is submitted with this package. Recovery was within QC limits.
- The matrix spike and matrix spike duplicate analyses were performed for sample LL6-FLOORASH-WC



#### CASE NARRATIVE

#### Explosives/HPLC

- 1 Two soil samples were extracted and analyzed for explosive compounds using SW846 method 8330.
- 2 Surrogate was not recovered for both samples. The samples were re-extracted outside extraction holding time with the re-extract exhibiting the same result. Both results are included in the data package. The re-extract is for QC purpose only. The modified sample ID's is LL6-FLOORASH-WCRE and LL9-FLOORASH-WCRE.
- 3. Matrix spike and matrix spike duplicate analysis was shared with work order# 307022.
- 4. A laboratory control sample was extracted and analyzed with each batch. BKS61445 showed one spike recovery above QC limits. BKS61549 showed three spike recoveries above QC limits. However, the overall LCS recoveries were very good.
- Manual integration was performed on some data files, when automatic integration provided by the software was inappropriate. Some forms were "hand" corrected due to software limitations.

#### Metals

- 1. Two soil samples were analyzed for TCLP metals by EPA SW846 methods.
- 2. A matrix spike and duplicate were performed on sample LL6-FLOORASH-WC for all required analytes. A serial dilution was performed also for the ICP analytes. They were within the control limits.
- 3 Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
- 4. All GPL QA/QC criteria were met.

Project Manager

Laboratory Director

#### UTL LABUKATUKIES, LLLP

## Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-003-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method:

Prep Date:

Prep Time:

Prep Batch:

Analytical Method: CLP\_SOLIDS

Date Analyzed: 07/26/2003

Time Analyzed: 14:00

Parameter	Result	Rep Limit	Units Qualifier	D.F
Percent Solids	42	1.0	%	1

#### UT L LABUKATUKIES, LLLF

## Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

GPL ID: 307054-002-004-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method:

Prep Date:

Prep Time:

Prep Batch:

Analytical Method: CLP\_SOLIDS

Date Analyzed: 07/26/2003

Time Analyzed: 14:00

Parameter	Result	Rep Limit	Units Qualifier	
Percent Solids	30	1.0	%	1

## GFL LABURATURIES, LLLP

## Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-001-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW3010A

Prep Date: 07/17/2003

Prep Time: 00:00

Prep Batch: 61449

Analytical Method: SW6010B\_TCLP

Date Analyzed: 07/18/2003

Time Analyzed: 04:14

Parameter	Resu	lt Rep Limit	t Units	Qualifier	D.F
Arsenic	BQ	L 200	ug/L	Ū	1
Barium	250	0 1000	ug/L		1 -
Cadmium	BQ.	L 60	ug/L	U	1
Chromium	BQ:	L 50	ug/L	U	1
Lead	67	9 100	ug/L		1
Selenium	BQ	L 200	ug/L	U	1
Silver	BQ	L 30	ug/L	U	1

#### GEL LABUKATUKIES, LLLP

## Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

GPL ID: 307054-002-002-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW3010A

Prep Date: 07/17/2003

Prep Time: 00:00

Prep Batch: 61449

Analytical Method: SW6010B\_TCLP

Date Analyzed: 07/18/2003

Time Analyzed: 04:45

Parameter	Result	Rep Limit	Units Qualifier	D.F.
Arsenic	BQL	200	ug/L U	1
Barium	BQL	1000	ug/L U	1
Cadmium	BQL	60	ug/L U	1
Chromium	BQL	50	ug/L U	1
Lead	970	100	ug/L	1
Selenium	BQL	200	ug/L U	1
Silver	BQL	30	ug/L U	1

#### GTL LABUKATUKIES, LLLP

### Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-001-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW7470A\_DIG

Prep Date: 07/22/2003

Prep Time: 17:00

Prep Batch: 61520

Analytical Method: SW7471A\_TCLP

Date Analyzed: 07/23/2003

Time Analyzed: 13:59

Parameter	Result	Rep Limit	Unit	•	D.F.
Mercury	 BQL	2	ug/l	U	1

#### UTL LABUKATUKIES, LLLF

#### Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

GPL ID: 307054-002-002-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW7470A\_DIG

Prep Date: 07/22/2003

Prep Time: 17:00

Prep Batch: 61520

Analytical Method: SW7471A\_TCLP

Date Analyzed: 07/23/2003

Time Analyzed: 14:06

Parameter	Result I	Rep Limit	Units Qualifier	D.F
Mercury	BOL	2	ug/L U	1

#### GFL LABUKATUKIES, LLLP

#### Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-003-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW3550

Prep Date: 07/22/2003

Prep Time: 00:00

Prep Batch: 61534

Analytical Method: SW8015DRO

Date Analyzed: 07/25/2003

Time Analyzed: 15:41

Parameter	Result	Rep Limit	Units Qualifi	er D.F
TPH-DRO (Diesel Range Organics)	21	4.0	mg/kg	1

#### Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

Prep Method: SW3550

Analytical Method: SW8015DRO

GPL ID: 307054-002-004-1/1

Matrix: SOIL

Pтер Date: 07/22/2003

Date Analyzed: 07/25/2003

Date Collected: 07/08/2003

Prep Time: 00:00 Prep Batch: 61534 Time Analyzed: 16:10

Date Received: 07/10/2003

Parameter	Result	Rep Limit	Units Qualifie	r D.F.
TPH-DRO (Diesel Range Organics)	180	5.6	mg/kg	1

#### Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

Prep Method: SW3510C

Analytical Method: SW8081A\_TCLP

GPL ID: 307054-001-001-1/1

Prep Date: 07/17/2003

Date Analyzed: 08/15/2003

Matrix: SOIL

Toxaphene

Prep Time: 12:54 Date Collected: 07/08/2003

Time Analyzed: 20:42

Date Received: 07/10/2003

Prep Batch: 61464

Analysis Batch: 62587

ug/L

U

Parameter	F	Result	Rep Limi	. Units	Qualifier	D.F.
Chlordane		BQL	5.0	ug/L	U	1
Endrin		BQL	0.25	ug/L	U .	1
Gamma-BHC (Lindane)		BQL	0.25	ug/L	U ·	1
Heptachlor		BQL	0.25	ug/L	U	1
Heptachlor Epoxide		BQL	0.25	ug/L	U	1
Methoxychlor	1	BQL	025	ug/L	U	1

BQL

5.0

#### Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

GPL ID: 307054-002-002-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW3510C

Prep Date: 07/17/2003

Prep Time: 12:54

Prep Batch: 61464

Analytical Method: SW8081A\_TCLP

Date Analyzed: 08/15/2003

Time Analyzed: 21:10

Parameter	Result	Rep Limit	Units Qualifier	D.F.
Chlordane	BQL	5.0	ug/L U	1
Endrin	BQL	0.25	ug/L U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L U	1
Heptachlor	BQL	0.25	ug/L U	1
Heptachlor Epoxide	BQL	0.25	ug/L U	. 1
Methoxychlor	BQL	0.25	ug/L U	1
Toxaphene	BQL	5.0	ug/L U	1

#### GYL LABUKATURIES, LLLP

#### Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-003-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW3550

Prep Date: 07/17/2003

Prep Time: 00:00

Prep Batch: 61443

Analytical Method: SW8082

Date Analyzed: 07/25/2003

Time Analyzed: 06:24

Parameter	Result	Rep Limit	Units Qualifier	D.F.
PCB-1016	BQL	79	ug/kg U	1
PCB-1221	BQL	79	ug/kg U	1
PCB-1232	BQL	79	ug/kg U	1
PCB-1242	BQL	79	ug/kg U	1
PCB-1248	BQL	79	ug/kg U	1
PCB-1254	BQL	79	ug/kg U	1
PCB-1260	BQL	79	ug/kg U	1

#### Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

GPL ID: 307054-002-004-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW3550 Prep Date: 07/17/2003

Prep Time: 00:00

Prep Batch: 61443

Analytical Method: SW8082

Date Analyzed: 07/25/2003

Time Analyzed: 06:57 Analysis Batch: 61782

Parameter		Result	Rep Limit	Units (	Qualifier	D.F.	
PCB-1016	·	BQL	110	ug/kg	U	1	_
PCB-1221		BQL	110	ug/kg	U	1	
PCB-1232		BQL	110	ug/kg	U	1	
PCB-1242		BQL	110	ug/kg	U	- 1	
PCB-1248	,	BQL	110	ug/kg	U	1	
PCB-1254		BQL	110	ug/kg	U	1	
PCB-1260		BQL	110	ug/kg	U	1	

#### Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-001-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: EXT\_SW8151

Prep Date: 07/18/2003

Prep Time: 00:00

Prep Batch: 61477

Analytical Method: SW8151A\_TCLP

Date Analyzed: 07/25/2003

Time Analyzed: 06:34

Parameter	Result	Rep Limit	Units Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L U	1
2,4-D	BQL	5.0	ug/L U	1

#### Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

GPL ID: 307054-002-002-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: EXT\_SW8151

Prep Date: 07/18/2003

Prep Time: 00:00

Prep Batch: 61477

Analytical Method: SW8151A\_TCLP

Date Analyzed: 07/25/2003

Time Analyzed: 06:59

Parameter	Result	Rep Limit	Units Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L U	1
2,4-D	BQL	5.0	ug/L U	1

#### UT L LABUKATUKIES, LLLY

#### Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-001-1/1

Matrix: WATER

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW5030B

Prep Date: 07/17/2003

Prep Time: 10:28

Prep Batch: 61485

Analytical Method: SW8260B\_TCLP

Date Analyzed: 07/17/2003

Time Analyzed: 13:54

Parameter	Result	Rep Limit	Units Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L U	10
1,2-Dichloroethane	BQL	100	ug/L U	10
1,4-Dichlorobenzene	BQL	100	ug/L U	10
2-Butanone	BQL	100	ug/L U	10
Benzene	BQL	100	ug/L U	10
Carbon Tetrachloride	BQL	100	ug/L U	10
Chlorobenzene	BQL	100	ug/L U	10
Chloroform	BQL	100	ug/L U	10
Tetrachloroethylene	12	100	ug/L J	10
Trichloroethene	BQL	100	ug/L U	10
Vinyl Chloride	BQL	100	ug/L U	10 -

#### GEL LABUKATUKIES, LLLP

#### Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

Prep Method: SW5030B

Analytical Method: SW8260B\_TCLP

GPL ID: 307054-002-002-1/1

Prep Date: 07/18/2003

Matrix: WATER

Prep Time: 09:17

Date Analyzed: 07/18/2003

Date Collected: 07/08/2003

Prep Batch: 61489

Time Analyzed: 11:30

Date Received: 07/10/2003

Parameter	Result	Rep Limit	Units Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L U	10
1,2-Dichloroethane	BQL	100	ug/L U	10
1,4-Dichlorobenzene	BQL	100	ug/L U	10
2-Butanone	BQL	100	ug/L U	10
Benzene	BQL	100	ug/L U	10
Carbon Tetrachloride	BQL	100	ug/L U	10
Chlorobenzene	BQL	100	ug/L U	10
Chloroform	BQL	100	ug/L U	10
Tetrachloroethylene	25	100	ug/L J	10
Trichloroethene	BQL	100	ug/L U	10
Vinyl Chloride	BQL	100	ng/L U	10 -

#### Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-001-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW3510C

Prep Date: 07/17/2003

Prep Time: 00:00

Prep Batch: 61466

Analytical Method: SW8270C\_TCLP

Date Analyzed: 07/21/2003

Time Analyzed: 17:34

Parameter	Result	Rep Limit	Units Qua	lifier D.F.
1,4-Dichlorobenzene	BQL	10	ug/L (	J 1
2,4,5-Trichlorophenol	BQL	10	ug/L (	J 1
2,4,6-Trichlorophenol	BQL	10	ug/L (	J 1
2,4-Dinitrotoluene	BQL	10	ug/L (	J 1
2-methylphenol	BQL	10	ug/L (	J 1
3 & 4-Methylphenol	BQL	10	ug/L (	J 1
Hexachlorobenzene	BQL	10	ug/L (	J 1
Hexachlorobutadiene	BQL	10	ug/L (	J 1
Hexachloroethane	BQL	10	ug/L (	J 1
Nitrobenzene	BQL	10	ug/L (	J · 1 .
Pentachlorophenol	BQL	20	ug/L (	J 1 •
Pyridine	BQL	10	ug/L (	J 1

#### Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

GPL ID: 307054-002-002-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: SW3510C

Prep Date: 07/17/2003

Prep Time: 00:00

Prep Batch: 61466

Analytical Method: SW8270C\_TCLP

Date Analyzed: 07/21/2003

Time Analyzed: 18:16

Parameter	Result	Rep Limit	Units Qualifie	r D.F.	
1,4-Dichlorobenzene	BQL	10	ug/L U	1	
2,4,5-Trichlorophenol	BQL	10	ug/L U	1	
2.4,6-Trichlorophenol	BQL	10	ug/L U	1	
2,4-Dinitrotoluene	BQL	10	ug/L U	1	
2-methylphenol	BQL	10	ug/L U	1	
3 & 4-Methylphenol	BQL	10	ug/L U	1	
Hexachlorobenzene	BQL	10	ug/L U	1	
Hexachlorobutadiene	BQL	10	ug/L U	. 1	
Hexachloroethane	BQL	10	ug/L U	1	
Nitrobenzene	BQL	10	ug/L U	1	
Pentachlorophenol	BQL	20	ug/L U	1	•
Pyridine	BQL	10	ug/L U	1	
, yriamie			•		

#### Summary of Analytical Results

Client ID: LL6-FLOORASH-WC

GPL ID: 307054-001-005-1/1

Matrix: SOIL

Date Collected: 07/08/2003

Date Received: 07/10/2003

Prep Method: EXT\_SW8330

Prep Date: 07/17/2003

Prep Time: 00:00

Prep Batch: 61445

Analytical Method: SW8330

Date Analyzed: 07/22/2003

Time Analyzed: 19:00

Parameter	Result	Rep Limit	Units Qualifier	DF
1,3,5-Trinitrobenzene	BQL	100	ug/kg U	1
1,3-Dinitrobenzene	BQL	100	ug/kg U	1
2,4,6-Trinitrotoluene	BQL	100	ug/kg U	1
2,4-Dinitrotoluene	BQL	100	ug/kg U	1
2,6-Dinitrotoluene	BQL	100	ug/kg U	1
2-Amino-4,6-Dinitrotoluene	BQL	100	ug/kg U	1
4-Amino-2,6-Dinitrotoluene	BQL	100	ug/kg U	1
HMX	BQL	200	ug/kg U	1
Nitrobenzene	BQL	100	ug/kg U	1
RDX	BQL	200	ug/kg U	1
Tetryl	BQL	200	ug/kg U	1 *
m-Nitrotoluene	BQL	200	ug/kg U	1
o-Nitrotoluene	BQL	200	ug/kg U	. 1
p-Nitrotoluene	BQL	200	ug/kg U	1

#### Summary of Analytical Results

Client ID: LL9-FLOORASH-WC

GPL ID: 307054-002-006-1/1

Matrix: SOIL

Date Received: 07/10/2003

Date Collected: 07/08/2003

Prep Method: EXT\_SW8330

Prep Date: 07/17/2003

Prep Time: 00:00

Prep Batch: 61445

Analytical Method: SW8330

Date Analyzed: 07/22/2003

Time Analyzed: 19:55

Parameter	Result	Rep Limit	Units Qualifie	er D.F.
1,3,5-Trinitrobenzene	BQL	100	ug/kg U	1
1,3-Dinitrobenzene	BQL	100	ug/kg U	1
2,4,6-Trinitrotoluene	BQL	100	ug/kg U	1
2,4-Dinitrotoluene	BQL	100	ug/kg U	1
2,6-Dinitrotoluene	BQL	100	ug/kg U	1
2-Amino-4,6-Dinitrotoluene	BQL	100	ug/kg U	1
4-Amino-2,6-Dinitrotoluene	BQL	100	ug/kg U	1
HMX	BQL	200	ug/kg U	1.
Nitrobenzene	BQL	100	ug/kg U	1
RDX	BQL	200	ug/kg U	1
Tetryl	BQL	200	ug/kg U	1 .
m-Nitrotoluene	BQL	200	ug/kg U	1
o-Nitrotoluene	BQL	200	ug/kg U	1
p-Nitrotoluene	BQL	200	ug/kg U	1

### ANALYTICAL RESULTS

Project Name: LL6, 9 & WS Demo Date Printed: August 22, 2003

GPL ID	Client ID	
307054-001-001-1/1	LL6-FLOORASH-WC	_
307054-001-003-1/1	LL6-FLOORASH-WC	
307054-001-005-1/1	LL6-FLOORASH-WC	
307054-001-005-1/1	LL6-FLOORASH-WCRE	
307054-002-002-1/1	LL9-FLOORASH-WC	
307054-002-004-1/1	LL9-FLOORASH-WC	
307054-002-006-1/1	LL9-FLOORASH-WC	
307054-002-006-1/1	LL9-FLOORASH-WCRE	

#### Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

#### Organics:

- B = Indicates that the analyte was found in the associated blank as well as in the sample
- D = Indicates that the analyte was reported from a diluted analysis
- E = Indicates that the concentration detected exceeded the calibration range of the instrument
- J = Value is less than the reporting limits but greater than the MDL
- P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

#### Metals:

- B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
- E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)
- H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
- N = Spiked sample recovery not within control limits
- \* = Duplicate analysis not within control limits

01/21/02 I:USER/G\_SECURE/LOGFORMS/REPORTS/QUALDEF DOC Form:Gen-005

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WW ⇒ Wastewater	<b>Vlatrix Key</b> SE = Sediment		Container N	Cey.	P i. HCl		rative K	ey	CC	OMMENT	S / /	/. ~!	·9)	)@100				Date Receive		1	1
W = Water S = Soil	SO= Solid DS = Drum Solid	2. V	oa Vial terile Plastic		2. H2:	304, Co	ol to 4°				4	<i>O</i> -	, ,	Cry			1	Courier:	<u></u>	Hand h	elivered 🗌
SL = Sludge MS = Miscellaneous	DL = Drum Liquid L = Leachate	4. A	mber Glass /idemouth Glas		4. Na(	OH, Coo		٠												กลกด ช	envereu [
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## MKM Engineers, Inc.

4153 Bluebonnet Drive Stafford, Texas 77477 Phone: 281-277-5100

Fax: 281-277-5205

3303582924

4.

8451 State Route 5, Bldg. 1038

Ravenna, Ohio 44266

Phone: 330-358-2920

Fax: 330-358-2924

To: Debbie Griffiths	From: James fanorro
Company:	Date: 7/11/63
Fax Number:	Total Pages + Cover:
Phone Number:	Sender's Reference #:
Re:	Your Reference #:
Urgent For Review   For Con	ment   For Reply   For Recycle

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### GPL Laboratories, LLLP

	Figure 1 SAMPLE RECEIPT CHECKLIST	· =
W.O. No: 307054	Carrier Name: Feel or	
Client Name: MKM	Prepared (Logged In) By:	
Date Received: 7/10/03	lਕੀials Date Project:	
Time Received: 10115	Site:	
Received By: Chris	VOA Holding Blank I.D. No:	
Airbill/Manifest Present?  No. <u>9383 2943 0767</u> Shipping Container in Good Condition?	YES NO Trip Blanks: No. of Sets Field Blanks: No. of Sets Equip. Blank: No. of Sets Field Duplicate: No. of Sets MS/MSD: No of Sets	20/11/1/1
Custody Seals Present on Shipping Container? Condition: Broken Intact-not dated or signed Intact-dated and signed	VOA Vials Have Zero Headspace?  Preservatives Added to Sample?  pH Check Required?	<u></u> - <u>-</u> -
Usage of Tamper Evident Type	Performed By?	<u>~</u>
Chain-of-Custody Present?	Ice Present in Shipping Container?	
Chain-of-Custody Agrees with Sample Labels?	Container # Temp Container #	Temp.
Chain-of-Custody Signed?	7 - 7 20	
Packing Present in Shipping Container? Type of Packing		· ·
Custody seals on Sample Bottles? Condition: Good Broken		
Total Number of Sample Bottles		
Total Number of Samples		
Samples Intact?		
Sufficient Sample Volume for Indicated Test?	Project Manager Contacted? Name: Debite Date Contacted: 7/10/03	
Any NO response must be detailed in the commer should be marked N/A/	ents section below If items are not applicable to particular samples or co	ontracts, they
COMMENTS:		
		<u> </u>
	~ / / / / / / / / / / / / / / / / / / /	
	Checklist Completed By:	

## GPL laboratories, lllp

#### **Summary of Analytical Results**

Client ID: LL9PBFLOORASHWC

GPL ID: 306009-001-001-1/1

Matrix: SOIL

Date Collected: 06/09/2003

Date Received: 06/10/0003

Prep Method: SW3010A

Prep Date: 06/13/2003

Prep Time: 00:00

Prep Batch: 60866

Analytical Method: SW6010B\_TCLP

Date Analyzed: 06/13/2003

Time Analyzed: 18:39 Analysis Batch: 14809

**"** 

Parameter		Result	Rep Limit	Units	Oualifier	D.F.
Lead	- Alander Hammanan Market Alan Langung	63800	100	ug/l.	~~	1

#### **Summary of Analytical Results**

Client ID: LL6PBFLOORASHWC

GPL ID: 306009-002-002-1/1

Matrix: SOIL

Date Collected: 06/09/2003

Date Received: 06/10/0003

Prep Method: SW3010A

Prep Date: 06/13/2003

Prep Time: 00:00

Prep Batch: 60866

Analytical Method: SW6010B\_TCLP

Date Analyzed: 06/13/2003

Time Analyzed: 19:25 Analysis Batch: 14809

Parameter	Resul	Units Qualifier	D.F.
Lead	 . 6430(	112/12	1

#### **Summary of Analytical Results**

Client ID: LL9PBFLOORASHWC

GPL ID: 306009-001-001-1/1

Matrix: SOIL.

Date Collected: 06/09/2003

Date Received: 06/10/0003

Prep Method: SW3550

Prep Date: 06/10/2003

Prep Time: 00:00

Prep Batch: 60821

Analytical Method: SW8015DRO

Date Analyzed: 06/11/2003

Time Analyzed: 16:32

Parameter	Result	Rep Limit	Units Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	180	3.9	mg/kg	1

#### **Summary of Analytical Results**

Client ID: LL6PBFLOORASHWC

GPL ID: 306009-002-002-1/1

Matrix: SOIL

Date Collected: 06/09/2003

Date Received: 06/10/0003

Prep Method: SW3550

Prep Date: 06/10/2003

Prep Time: 00:00 Prep Batch: 60821 Analytical Method: SW8015DRQ

Date Analyzed: 06/11/2003

Time Analyzed: 18:30

Parameter	Result	Rep Limit	Units Oualifier	D.F.
TPH-DRO (Diesel Range Organics)	180	4.3	***************************************	1

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IS - Miscellaneous L OI Air		demodity Glass 5.	NaOH/Zn, Coorto Coolto Ф None	*				Bill of Lading

# SUMMARY TABLE WET STORAGE AREA RVAAP SUB-FLOOR CONFIRMATION SOIL SAMPLES

ANALYTE**, UNITS, METHOD NO.	Soil Background Criteria (0-1 ft) mg/kg	Region 9 PRG Data (Residential Soil) mg/Kg	WS1-001- CONF	WS1-002- CONF	WS1A-001- CONF	WS1A-002- CONF	WS2-001- CONF	WS2-002- CONF	WS2A-001- CONF	WS2A-002- CONF
Sample Date			6/24/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004
Metals 6010B mg/kg			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Lead	26.10	400.00	20	18	49	16	NT	NT	NT	NT
Mercury	0.04	23.00	NT	NT	NT	NT	0.028	0.025	0.037	0.018 (B)

BRL = Below Reporting Limit

ND = Not detected

NT = Not Tested

B = Result is less than CRDL/RL but greater than or equal to IDL/MDL

PRGs = Preliminary Remediation Goals

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

ug/L = micrograms per Liter (parts per billion - ppb)

= concentration greater than background

BOLD = concentration greater than Region 9 PRG data

## SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 228015

Prepared For:

MKM Engineers, Inc.
Ravenna Army Ammunition Plant
Building 1038
8451 State Route 5
Ravenna, OH 44266

Project: Ravenna - LL6, 9, WS Demo

Attention: James Panozzo

Date: 07/06/2004

Signature Date

Name: Eric A. Lang

Title: Project Manager

E-Mail: elang@stl-inc.com

STL Chicago

2417 Bond Street

University Park, IL 60466

PHONE: (708) 534-5200 FAX..: (708) 534-5211

This Report Contains (\_\_\_\_\_) Pages

#### SAMPLE INFORMATION

Date: 07/06/2004

Job Number.: 228015

Project Number.....: 20002825 Customer Project ID...: RAVENNA - LL6, 9, WS Project Description...: Ravenna - LL6, 9, WS Demo Customer...: MKM Engineers, Inc. Attn.....: James Panozzo

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
228015-1	WS1-001-CONF	Soil	06/24/2004	10:00	06/25/2004	09:00
228015-2	WS1-002-CONF	Soil	06/24/2004	10:00	06/25/2004	09:00
228015-3	WS2-001-CONF	Soil	06/24/2004	10:30	06/25/2004	09:00
228015-4	WS2-002-CONF	Soil	06/24/2004	10:50	06/25/2004	09:00
228015-5	WS1A-001-CONF	Soil	06/24/2004	10:10	06/25/2004	09:00
228015-6	WS1A-002-CONF	Soil	06/24/2004	10:10	06/25/2004	09:00
228015-7	WS2A-001-CONF	Soil	06/24/2004	11:10	06/25/2004	09:00
228015-8	WS2A-002-CONF	Soil	06/24/2004	11:10	06/25/2004	09:00

LABORATORY TEST RESULTS

Job Number: 228015 Date:07/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: James Panozzo

Customer Sample ID: WS1-001-CONF
Date Sampled....: 06/24/2004
Time Sampled....: 10:00
Sample Matrix...: Soil

Laboratory Sample ID: 228015-1 Date Received.....: 06/25/2004 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT Ç	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	77.6 22.4		0.10 0.10	0.10 0.10	1	% %	121979 121979		06/28/04 2039 06/28/04 2039	clb
7421	Lead (GFAA) Lead, Solid*	20		2.5	4.6	20	mg/Kg	122416		07/01/04 1532	daj

<sup>\*</sup> In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 228015 Date: 07/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: James Panozzo

Customer Sample ID: WS1-002-CONF
Date Sampled....: 06/24/2004
Time Sampled....: 10:00
Sample Matrix...: Soil

Laboratory Sample ID: 228015-2 Date Received.....: 06/25/2004 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 % Moisture, Solid	79.9 20.1		0.10 0.10	0.10 0.10	1	o o o o o	121979 121979		06/28/04 2042 06/28/04 2042	clb
7421	Lead (GFAA) Lead, Solid*	18		2.5	4.6	20	mg/Kg	122416		07/01/04 1545	daj

<sup>\*</sup> In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 228015 Date: 07/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: James Panozzo

Customer Sample ID: WS2-001-CONF
Date Sampled....: 06/24/2004
Time Sampled....: 10:30
Sample Matrix...: Soil

Laboratory Sample ID: 228015-3 Date Received.....: 06/25/2004 Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT (	QFLAC	GS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	80.2 19.8			0.10 0.10	0.10 0.10	1	<b>ે</b> <b>ે</b>	121979 121979		06/28/04 2045 06/28/04 2045	clb clb
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.028			0.0054	0.021	1	mg/Kg	122442		07/02/04 1322	gok

<sup>\*</sup> In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 228015 Date: 07/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: James Panozzo

Customer Sample ID: WS2-002-CONF
Date Sampled....: 06/24/2004
Time Sampled....: 10:50
Sample Matrix...: Soil

Laboratory Sample ID: 228015-4
Date Received.....: 06/25/2004
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 % Moisture, Solid	81.4 18.6		0.10 0.10	0.10 0.10	1	એ એ એ	121979 121979		06/28/04 2048 06/28/04 2048	
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.025		0.0053	0.020	1	mg/Kg	122442		07/02/04 1324	gok

<sup>\*</sup> In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 228015 Date: 07/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: James Panozzo

Customer Sample ID: WS1A-001-CONF
Date Sampled.....: 06/24/2004
Time Sampled.....: 10:10
Sample Matrix....: Soil

Laboratory Sample ID: 228015-5
Date Received.....: 06/25/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QFLA	AGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	77.8 22.2			0.10 0.10	0.10 0.10	1	o o o o	121979 121979		06/28/04 2051 06/28/04 2051	clb clb
7421	Lead (GFAA) Lead, Solid*	49			5.1	9.3	40	mg/Kg	122416		07/01/04 1558	  daj

<sup>\*</sup> In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 228015 Date: 07/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: James Panozzo

Customer Sample ID: WS1A-002-CONF
Date Sampled.....: 06/24/2004
Time Sampled.....: 10:10
Sample Matrix....: Soil

Laboratory Sample ID: 228015-6
Date Received.....: 06/25/2004
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 % Moisture, Solid	78.6 21.4		0.10 0.10	0.10 0.10	1	o o o o	121979 121979		06/28/04 2053 06/28/04 2053	clb
7421	Lead (GFAA) Lead, Solid*	16		0.65	1.2	5	mg/Kg	122178		06/30/04 0434	daj

<sup>\*</sup> In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 228015 Date: 07/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: James Panozzo

Customer Sample ID: WS2A-001-CONF
Date Sampled.....: 06/24/2004
Time Sampled.....: 11:10
Sample Matrix....: Soil

Laboratory Sample ID: 228015-7
Date Received.....: 06/25/2004
Time Received.....: 09:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT (	QF	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	83.7 16.3			0.10 0.10	0.10 0.10	1	oo oo	121979 121979		06/28/04 2056 06/28/04 2056	clb clb
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.037			0.0051	0.020	1	mg/Kg	122442		07/02/04 1326	gok
					İ				   	 	 	

<sup>\*</sup> In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 228015 Date:07/06/2004

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: James Panozzo

Customer Sample ID: WS2A-002-CONF
Date Sampled.....: 06/24/2004
Time Sampled.....: 11:10
Sample Matrix....: Soil

Laboratory Sample ID: 228015-8 Date Received.....: 06/25/2004 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 % Moisture, Solid	85.4 14.6			0.10 0.10	0.10 0.10	1	o\0 o\0	121979 121979		06/28/04 2059 06/28/04 2059	clb clb
7471A	Mercury (CVAA) Solids Mercury, Solid*	0.018	B		0.0050	0.019	1	mg/Kg	122442		07/02/04 1329	gok

<sup>\*</sup> In Description = Dry Wgt.

#### LABORATORY CHRONICLE

Job Number: 228015 Date: 07/06/2004

UOL	Number 228015	Date: 07/06/2004
CUSTOMER: MKM Eng	gineers, Inc.	PROJECT: RAVENNA - LL6, 9, WS ATIN: James Panozzo
Lab ID: 228015-1 METHOD Method 3050B	DESCRIPTION % Solids Determination Acid Digestion: Solids (GFAA)	Date Recvd: 06/25/2004 Sample Date: 06/24/2004  RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 1 121979 121979 06/28/2004 2039 1 121972 06/28/2004 1900
EDD 7421	Electronic Data Deliverable Lead (GFAA)	1 1 122416 121972 07/01/2004 1532 20
Lab ID: 228015-2 METHOD Method 3050B 7421	Client ID: WS1-002-CONF DESCRIPTION % Solids Determination Acid Digestion: Solids (GFAA) Lead (GFAA)	Date Recvd: 06/25/2004 Sample Date: 06/24/2004  RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 1 121979 121979 06/28/2004 2042 1 121972 06/28/2004 1900 1 122416 121972 07/01/2004 1545 20
Lab ID: 228015-3 METHOD Method 7471A 7470/7471	Client ID: WS2-001-CONF DESCRIPTION % Solids Determination Mercury (CVAA) Solids SW846 Digestion (Hg)	Date Recvd: 06/25/2004 Sample Date: 06/24/2004  RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 1 121979 121979 06/28/2004 2045 1 122442 122439 07/02/2004 1322 1 122439 07/02/2004 1145
Lab ID: 228015-4 METHOD Method 7471A 7470/7471	Client ID: WS2-002-CONF DESCRIPTION % Solids Determination Mercury (CVAA) Solids SW846 Digestion (Hg)	Date Recvd: 06/25/2004 Sample Date: 06/24/2004  RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION  1 121979 121979 06/28/2004 2048  1 122442 122439 07/02/2004 1324  1 122439 07/02/2004 1145
Lab ID: 228015-5 METHOD Method 3050B 7421	Client ID: WS1A-001-CONF DESCRIPTION % Solids Determination Acid Digestion: Solids (GFAA) Lead (GFAA)	Date Recvd: 06/25/2004 Sample Date: 06/24/2004  RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 1 121979 121979 06/28/2004 2051 1 121972 06/28/2004 1900 1 122416 121972 07/01/2004 1558 40
Lab ID: 228015-6 METHOD Method 3050B 7421	Client ID: WS1A-002-CONF DESCRIPTION % Solids Determination Acid Digestion: Solids (GFAA) Lead (GFAA)	Date Recvd: 06/25/2004 Sample Date: 06/24/2004  RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 1 121979 121979 06/28/2004 2053 1 121972 06/28/2004 1900 1 122178 121972 06/30/2004 0434 5
Lab ID: 228015-7 METHOD Method 7471A 7470/7471	Client ID: WS2A-001-CONF DESCRIPTION % Solids Determination Mercury (CVAA) Solids SW846 Digestion (Hg)	Date Recvd: 06/25/2004 Sample Date: 06/24/2004  RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 1 121979 121979 06/28/2004 2056 1 122442 122439 07/02/2004 1326 1 122439 07/02/2004 1145
Lab ID: 228015-8 METHOD Method 7471A 7470/7471	Client ID: WS2A-002-CONF DESCRIPTION % Solids Determination Mercury (CVAA) Solids SW846 Digestion (Hg)	Date Recvd: 06/25/2004 Sample Date: 06/24/2004  RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED DILUTION 1 121979 121979 06/28/2004 2059 1 122442 122439 07/02/2004 1329 1 122439 07/02/2004 1145

#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 07/06/2004

#### REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
- 5) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report) Inorganic Qualifiers (Q-Column)

- U Analyte was not detected at or above the stated limit.
- < Not detected at or above the reporting limit.
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- S Result was determined by the Method of Standard Additions.
- F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

- ^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
- \* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
- + MSA correlation coefficient is less than 0.995.
- 4 MS, MSD: The analyte present in the original sample is 4 times greater
  - than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial dilution exceeds the control limits.
- MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a
  - negative instrument reading lower than the absolute value of the reporting limit.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

- U Analyte was not detected at or above the stated limit.
- ND Compound not detected.
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- Q Result was qualitatively confirmed, but not quantified.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- The chromatographic response does not resemble a typical fuel pattern.
- E Result exceeded calibration range, secondary dilution required.
- F AFCEE: Result is an estimated value below the reporting limit or a tentatively identified compound (TIC) Organic Flags (Flags Column)
- B MB: Batch QC is greater than reporting limit.
- \* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
- ^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
- A Concentration exceeds the instrument calibration range
- Concentration is below the method Reporting Limit (RL)
- B Compound was found in the blank and sample.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for
  - analysis; also compounds analyzed at a dilution will be flagged with a D.
- H Alternate peak selection upon analytical review
- I Indicates the presence of an interfence, recovery is not calculated.
- M Manually integrated compound.
- P The lower of the two values is reported when the % difference between the results of two GC columns is

#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 07/06/2004

```
greater than 25%.
Abbreviations
         Post Digestion Spike (GFAA Samples - See Note 1 below)
AS
         Designation given to identify a specific extraction, digestion, preparation set, or analysis set
Batch
CAP
         Capillary Column CCB Continuing Calibration Blank
CCV
         Continuing Calibration Verification
CF
         Confirmation analysis of original
C1
         Confirmation analysis of Al or D1
C2
         Confirmation analysis of A2 or D2
C3
         Confirmation analysis of A3 or D3
CRA
         Low Level Standard Check - GFAA; Mercury
CRI
         Low Level Standard Check - ICP
         Calilbration Verification Standard
CV
Dil Fac Dilution Factor - Secondary dilution analysis
D1
         Dilution 1
D2
         Dilution 2
D3
         Dilution 3
         Detection Limit Factor
DLFac
DSH
         Distilled Standard - High Level
         Distilled Standard - Low Level
Distilled Standard - Medium Level
DST.
DSM
EB1
         Extraction Blank 1
         Extraction Blank 2
EB2
EB3
         DI Blank
ELC.
         Method Extracted LCS
ET D
         Method Extracted LCD
ICAL
         Initial calibration
ICB
         Initial Calibration Blank
         Initial Calibration Verification
ICV
IDL
         Instrument Detection Limit
ISA
         Interference Check Sample A - ICAP
         Interference Check Sample B - ICAP
ISB
         The first six digits of the sample ID which refers to a specific client, project and sample group
Job No.
         Lab ID An 8 number unique laboratory identification
LCD
         Laboratory Control Standard Duplicate
LCS
         Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB
         Method Blank or (PB) Preparation Blank
MD
         Method Duplicate
MDL
         Method Detection Limit
MLE
         Medium Level Extraction Blank
MRL
         Method Reporting Limit Standard
         Method of Standard Additions
MSA
MS
         Matrix Spike
MSD
         Matrix Spike Duplicate
ND
         Not Detected
         Preparation factor used by the Laboratory's Information Management System (LIMS)
PREPF
         Post Digestion Spike (ICAP)
PDS
RA
         Re-analysis of original
A1
         Re-analysis of D1
Α2
         Re-analysis of D2
A3
         Re-analysis of D3
RD
         Re-extraction of dilution
RE
         Re-extraction of original
RC.
         Re-extraction Confirmation
RL
         Reporting Limit
         Relative Percent Difference of duplicate (unrounded) analyses
RPD
         Relative Response Factor
RRF
RT
         Retention Time
```

#### QUALITY ASSURANCE METHODS

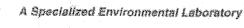
#### REFERENCES AND NOTES

Report Date: 07/06/2004

RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first
ICIW	six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check ICSP pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000
	The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current
abbrevi	ation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

# AMA A. Alytical Services, Inc.



#### CERTIFICATE OF ANALYSIS

R. JAP NY ELAP AIHA

Client:

MKM Engineers

Job Name:

RVAAP

Chain Of Custody:

118656

Address:

8451 State Route 5, Building 1038

Job Location:

Wet Storage Demo

Date Analyzed:

10/16/2003

Ravenna, Olno 44266

Job Number:

P.O. Number:

02-02-0074

Person Submitting:

James Panozzo

Attention:

Brian Stockwell

Not Provided

Page 1 of 1

### **Summary of Polarized Light Microscopy**

AMA Sample Number	Client Sample#	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos	Mineral Wool	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Cotor	Analyst ID	Comments	
m se light.	The second of th	And the second s	inggelgenten grund i skyrenten ingenerringskylving i san Siri Name – man sens kapaterinden i skyrensen sens ven	Marcha a colomba de la constitución de metago e colomba de colomba de metago e colomba de meta	n wake nga e i namajang 1998 Kalenda ya hasa e kalenda 199	Percent	Percent		allia de la companya	and A martingly Common properties of the	Annual Control of the	an and any or other services.	Station of the state of the sta	emmerican constructions.	Control of the Contro	
0401788	WS-FloorAsh- -WC	- NAD	entrape	JAN AN		- <del></del>	<b>₩</b> ♥ .		• • <del>•••</del>	***	49.~	100	Gray	CK		

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

- TEM RECOMMENDATION Please note, due to resolution limitations with optical incroscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM:

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected"

TR = "Trace couples less than 1% of this component"

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client, NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples.

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An AIHA (#8863), NVLAP (# 101143), & New York ELAP (#10920) Accredited Laboratory
4475 Forbes Blyd, \* Lanham, MD 20706 \* (301) 459-2640 \* Toll Free (800) 346-0961 \* Fax (301) 459-2643

RESULTS LABORATORY TEST

Job Number: 216081

Date:04/09/2003

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA - LL6, 9, WS

ATTN: Brian Stockwell

Customer Sample ID: WET STORAGE-WC-ASH Date Sampled.....: 03/24/2003 Time Sampled.....: 12:30 Sample Matrix....: Soil

Laboratory Sample ID: 216081-2
Date Received...... 03/26/2003
Time Received...... 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TEC
8015B MDRO	TTH - Diesel Range Organics (DRO) Diesel Range Organics (DRO), 3541 Solid*	910		27	44	10.0000	mg/Kg	79591		04/02/03 2053	mgk
Method	<pre>% Solids Determination % Solids, Solid % Moisture, Solid</pre>	93.5 6.5		0.10 0.10	0.10 0.10	1	\$ \$	78835 78835		03/27/03 0000 03/27/03 0000	daj daj
									والمرارة وال		

		erost Tot		Bi:		inaded Areas For Internal Use
SEVERN E 6	1777	ontact:  Ompanys  Idres		Company. Address:		Lab Lot# Package Sealed Samples Scaled Yes No Yes No
STI. Chicago 2417 Bond Street Librarsity Park, IL 69466				Phone		Received on ice Samples Intact Yes No Yes No
Phone: 708/834/\$200 Paxi - 708/684/5211	Taran Sanata F			POP:	CHRISTOC AND THE STREET OF THE	Temperature *C of Cooler
Sampler Namet Project Name:	Project Numbe		Refrg # # / Cont. Volume			Within Hold Time Preserv. Indicated  Yes No Yes No NA  pH Check OK Res Cl <sub>2</sub> Check OK
Project Location.			Matri Comp (Gab			Yes No NA Yes No NA Sample Labels and COC Agree Yes No COC not present
Laboratory (2)	Client Sample ID	Sampling Date   Time	N CO			Additional Analyses / Remarks
		A STATE OF THE PROPERTY OF THE	And the second s	The second secon		VI VERLEY PORT OF HE
					Particular Control of	ar myare
REUNORISHED BY	COMPANY (	DATE .	TIME!	RECEIVED BY	СОМРАНУ	DATE
RELINQUISHED BY	COMPANY FREE	DAIE	TIME	RECEIVED BY	The second COMPANY	DATE TIME
Watri W Wasewater W Water 3 * Soll Sty Shudge MS - Miscellaneous	SE = Sediment SO = Solid	Container Key. Plasto VGA Vial Starrie Plasto Anthor Glass Widemouth Glass	Preservative Key  1. HCI. Cool to 4*  2. H42504. Cool to 4*  3. HNO3, Cool to 4*  4. NeOH; Cool to 4*  5. NaOH; 20; Cool to 4*	COMMENTS FOR	AND STREET, ST	Date Received / / Courier: Hand Delivered   Bill of Lading
01 00		Other	6. Coolin of 7. None	Soverni Trent Laboratories, mc.		2.07-83:08 (0g/00).

### Summary of Analytical Results

Client ID: WETSTORAGE-WE-ASH

GPL ID: 302104-001-001-1/2

Matrix: SOIL

Date Collected: 02/19/2003

Date Received: 02/20/2003

Prep Method: SW3010A

Prep Date: 02/27/2003

Prep Time: 00:00

Prep Batch: 59209

Analytical Method: SW6010B\_TCLP

Date Analyzed: 03/05/2003

Time Analyzed: 23:13

Parameter	Result	Rep Limit	Units Qualifier	D.F.
Arsenic	BQL	200	ug/L U	1
Barium	BQL	1000	ug/L U	1
Cadmium	BQL	60	ug/L U	1
Chromium	BQL	50	ug/L U	1
Lead	BQL	100	ug/L U	1
Selenium	BQL	200	ug/L U	1
Silver	BQI.	30	ug/L U	1

### **Summary of Analytical Results**

Client ID: WETSTORAGE-WE-ASH

GPL ID: 302104-001-001-1/2

Matrix: SOIL

Date Collected: 02/19/2003

Date Received: 02/20/2003

Prep Method: SW7470A\_DIG

Prep Date: 02/26/2003

Prep Time: 14:00

Prep Batch: 59198

Analytical Method: SW7471A\_TCLP

Date Analyzed: 02/27/2003

Time Analyzed: 11:53

Parameter	Result	Rep Limit	Units Qualifier	D.F.
Mercury	BQL	<u></u>	ug/L Ü	1

#### Summary of Analytical Results

Client ID: WEISTORAGE-WE-ASH

GPL ID: 302104-001-001-1/2

Matrix: SOIL

Date Collected: 02/19/2003

Date Received: 02/20/2003

Prep Method: SW3510C

Prep Date: 02/26/2003

Prep Time: 00:00

Prep Batch: 59218

Analytical Method: SW8081A\_TCLP

Date Analyzed: 03/11/2003

Time Analyzed: 19:19

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Chlordane	BQL	5.0	ug/L	Ü	1
Endrin	BQL	0.25	ug/L	U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L	IJ	1
Heptachlor	BQL	0.25	ug/L	U	1
Heptachlor Epoxide	BQL	0.25	ug/L	U	1
Methoxychlor	BQL	0.25	ug/I.	U	1
Toxaphene	BQL	5.0	ug/L	$\mathbf{U}$	1

### **Summary of Analytical Results**

Client ID: WETSTORAGE-WE-ASH

GPL ID: 302104-001-001-1/2

Matrix: SOIL

Date Collected: 02/19/2003

Date Received: 02/20/2003

Prep Method: EXI\_SW8151

Prep Date: 02/26/2003

Prep Time: 00:00

Prep Batch: 59221

Analytical Method: SW8151A\_TCLP

Date Analyzed: 03/10/2003

Time Analyzed: 19:10

Parameter		Rep Limit	Units Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L. U	1
2,4-D	BQL	5.0	ug/L. U	1

### Summary of Analytical Results

Client ID: WETSTORAGE-WE-ASH

GPL ID: 302104-001-001-1/2

Matrix: WATER

Date Collected: 02/19/2003

Date Received: 02/20/2003

Prep Method: SW5030B

Prep Date: 02/24/2003

Prep Time: 14:10

Prep Batch: 59186

Analytical Method: SW8260B\_TCLP

Date Analyzed: 02/24/2003

Time Analyzed: 18:13

Parameter	Result	Rep Limit	Units Quali	fier D.F.
1,1 Dichloroethene	BQL	100	ug/I. U	10
1,2-Dichloroethane	BQL	100	ug/L. U	10.
1,4-Dichlorobenzene	BQL	100	ug/L U	10
2-Butanone	BQL	100	ug/L. U	.10
Benzene	BQL	100	ug/L U	10
Carbon Tetrachloride	BQL	100	ug/L U	10
Chiprobenzene	BQL	100	ug/L U	10
Chloroform	BQL	100	ug/L U	10
Tetrachloroethylene	BQL	100	ug/L U	10
Trichloroethene	BQL	100	ug/L U	10
Vinyl Chloride	BQL	100	ug/L U	10

### **Summary of Analytical Results**

Client ID: WETSTORAGE-WE-ASH

GPL ID: 302104-001-001-1/2

Matrix: SOIL

Date Collected: 02/19/2003

Date Received: 02/20/2003

Prep Method: SW3510C

Prep Date: 02/26/2003

Prep Time: 00:00

Prep Batch: 59212

Analytical Method: SW8270C\_TCLP

Date Analyzed: 03/03/2003

Time Analyzed: 20:05 Analysis Batch: 59224

Parameter	Result	Rep Limit	Units Qualifier	D.F.
1,4-Dichlorobenzene	BQL	50	ug/L U	To compare a separation of the company of the compa
2,4,5-Trichlorophenol	BQL	50	ug/L U	1
2,4,6-Trichlorophenol	BQL	50	ug/L U	1
2,4-Dinitrotoluene	BQL	50	ug/L U	1
2-methylphenol	BQL	50	ng/L U	1
3 & 4-Methylphenol	BQL	50	ug/L U	1
Hexachiorobenzene	BQL	50	ug/L. U	1
Hexachlorobutadiene	BQL	50	ug/L U	1
Hexachloroethane	BQL	50	ug/L U	1
Nitrobenzene	BQL	50	ug/L U	1
Pentachlorophenol	BQL	100	ug/I. U	1
Pyridine	BQL	50	ug/L U	1

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		Container	Kov		Prese	rvative	Key		COMME	NIJS.						Date Received 2 / 2	0 103		
Matrix Key  Wastewater SE = Sedime		Plastic	*ccl	1 1. H	J. Coo			To Control to Manual		K,	ecto	(n	20	ole	1:	Courier: Hat	nd Delivered		
- Water SO= Solid	2	VOA Viai Sterile Plastic		3. M	103, C	cool to 4°		MANAGEMENT (C)	Lucia	1 10	/ 1	1	· .	1.11	~~~	Courner			
- Studge DL - Drum	Jayld 4.	Amber Glass Widemouth Gl	ass	4. No 5. No	OH, C OH/Z	col to 4° n, Cool to	₫a	-5) LEO (\$4)	70	6	ont	act	्दट	211	CI)	Bill of Lading			
- Miscellaneous L - Leach - Oil Wi - Wipe		, Wilderford G	-v-w/w		ol to a									21	nel		STL-8208 (060		
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LABORATORY TEST RESULTS

Job Number: 216081 Date:04/09/2003

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA - LL6, 9, WS ATTN: Brian Stockwell

Customer Sample ID: WET STORAGE-WC-ASH Date Sampled....: 03/24/2003
Time Sampled....: 12:30
Sample Matrix...: Soil Laboratory Sample ID: 216081-2 Date Received.....: 03/26/2003 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	MDL	RL	DILLUTION	UNITS	BATCH I	OT DATE/TIME	TEC
8015B MDRO	TPH - Diesel Range Organics (DRO) Diesel Range Organics (DRO), 3541 Solid*	910		27	44	10.0000	mg/Kg	79591	04/02/03 2053	mgk
Method	<ul><li>Solids Determination</li><li>Solids, Solid</li><li>Moisture, Solid</li></ul>	93.5 6.5		0.10 0.10	0.10 0.10	1 1	\$ <b>\$</b>	78835 78835	03/27/03 0000 03/27/03 0000	daj đaj
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## AMA Analytical Services, Inc.



A Specialized Environmental Laboratory

#### CERTIFICATE OF ANALYSIS

MY ELAP AHA

Client:

MKM Engineers

Job Name:

RVAAP

Chain Of Custody:

118656

Address:

8451 State Koute 5, Building 1038

Job Location:

Wet Storage Demo

Date Analyzed:

10/16/2003

Ravenna, Ohio 44266

Job Number:

02-02-0074

Person Submitting:

James Panozzo

P.O. Number:

Not Provided

Attention:

Brian Stockwell

Ani Linking

Page ! of I

### Summary of Polarized Light Microscopy

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AMA Sample Number	Client Sample#	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos	Minerai Wooi	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
						Percent	Percent								
procedurate processors ( processor )		**************************************		***************************************			***************************************	Angeles Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Co	automorphism and a second	- Second (S. Mariana Bandallia)	Additionary or sound		- 1980 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	olizaka katalak (h. 1925). Maren - Oraș (h. 1925).	i e a l'a grande de la company
0401788	WS-FloorAsh	NAD	**	**	: <del>****</del> :	***	***	in sec	Andrew .	MIN.	gents o	100	Gray.	CK	-

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number,

- TEM RECOMMENDATION Please note, due to resolution limitations with optical interescept and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.
- 2 MATRIX REDUCTION RECOMMENDATION > Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by regnalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected"

TR = "Trace equals less than 1% of this component"

systal Kyll

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client, NVLAP Accreditation applies only to polarized light interoscopy of bulk samples and transmission electron microscopy of AHERA air samples.

An AIMA (#8863), NVLAP (# 101143), & New York ELAP (#10920) Accredited Laboratory
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