DRAFT

Voluntary Lead Management Report
Cherry Creek State Park, Family Shooting Center

Prepared For:

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LIST OF ACRONYMS

EPA	Environmental Protection Agency
GPS	Global Positioning System
HDPE	High-density polyethylene
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MT^2	Metals Treatment Technology
RCRA	Resource Conservation and Recovery Act
TCLP	Toxicity Characteristic Leaching Procedure
Versar	Versar, Inc.
XRF	X-ray fluorescence

1.0 INTRODUCTION

This report details the work conducted as part of the voluntary lead management activities as detailed in the *Final Voluntary Lead Management Report, Cherry Creek State Park, Family Shooting Center* (Versar, 2005), and as modified by the April 29, 2005 Versar, Inc. (Versar) letter to Colorado State Parks.

For this project, Versar performed all of the environmental engineering aspects, as well as all project, construction, and administrative management. Our team partner, Metals Treatment Technology (MT^2) performed all field remedial and lead treatment activities under contract to Versar.

1.1 Project Objectives and Scope of Work

The project objective was the removal of lead impacted soil from selected areas of both the pistol and rifle ranges. The Colorado Department of Public Health and Environment's proposed residential cleanup standard and the Environmental Protection Agency's (EPA) screening level for total lead of 400 milligrams per kilogram (mg/kg) and the Toxicity Characteristic Leaching Procedure (TCLP) limit for lead of 5 milligrams per liter (mg/L) were used to determine soil to be removed, treated and disposed of at an off-site location. The project scope included:

- Pre-sampling research on historical firing patterns and range boundaries.
- Soil sampling and analysis to determine the extent of lead contamination, defined as lead levels exceeding 400 mg/kg (the Colorado Department of Public Health and Environment's proposed residential cleanup standard and the EPA's screening level) and TCLP exceeding 5 mg/L for lead.
- Removal, stockpiling, and treatment with ECOBOND® for metal stabilization of lead impacted soil.
- Replacement of removed lead-impacted soil with cleanfill sourced from an off-site provider.
- Off-site disposal of ECOBOND® treated soil at a licensed solid-waste facility.
- Additional sampling was conducted on the adjacent trap range, however removal and treatment actions were not conducted on identified impacted soils. Sampling and analysis details are included in Appendix A.

2.0 SITE LOCATION

The Family Shooting Center, located within Cherry Creek State Park, has been an active outdoor public shooting venue for approximately 40 years. The center consists of 22 rifle/pistol stations.

Figure 1, Site Location Map shows the location of Cherry Creek State Park.

3.0 PRE-SAMPLING RESEARCH

Prior to lead impacted soil sampling and analysis, Versar researched and gathered information regarding the historical use of the Family Shooting Center. Information was obtained from historical aerial photographs and through interviews with persons familiar with past operations, including the current range operator. Based on the results of this research, sampling locations were selected to determine the extent of lead contamination at both the pistol and rifle ranges.

4.0 SOIL SAMPLING AND ANALYSIS

Soil sampling and analysis was conducted to determine the extent and depth of lead contamination in order to establish those areas requiring removal, treatment and off-site disposal. Sample locations were selected based on data obtained from the pre-sampling research, visual observations, lines of fire, and in consultation with range operators and Cherry Creek State Park personnel. Sampling was conducted from January 27 to February 1, 2005 and on February 8 and 11, 2005.

4.1 Sampling Locations

All sampling locations were clearly marked with a painted stake and sited with a Global Positioning System (GPS) handheld receiver. The coordinates of the sampling locations for the rifle and pistol ranges are listed in Tables 1 and 2, respectively.

Table 1, GPS Coordinates, Rifle Range

Sample ID	GPS Coordinates	Location Notes
RR1	N 39° 37.175’ W 104° 50.470’	First berm, middle
RR2	N 39° 37.172’ W 104° 50.430’	Eastern berm, middle, approximately 4 feet up slope
RR3	N 39° 37.154’ W 104° 50.444’	Final backstop, eastern edge, approximately 4 feet up slope
RR4	N 39° 37.157’ W 104° 50.458’	Lower final backstop, middle
RR5	N 39° 37.148’ W 104° 50.462’	Final backstop, middle, approximately 4 feet up slope
RR6	N 39° 37.144’ W 104° 50.464’	Final backstop, middle, top of berm
RR7	N 39° 37.156’ W 104° 50.480’	Soil stockpile, western area, middle
RR8	N 39° 37.165’ W 104° 50.485’	Final pistol range backstop, top of berm, middle
RR9	N 39° 37.148’ W 104° 50.485’	Western berm, middle, approximately 4 feet up slope

Table 2, GPS Coordinates, Pistol Range		
Sample ID	**GPS Coordinates**	**Location Notes**
PR1	N 39° 37.188’ W 104° 50.487’	First bullet backstop, center
PR2	N 39° 37.181’ W 104° 50.485’	Second bullet backstop, center
PR3	N 39° 37.172’ W 104° 50.483’	Eastern soil stockpile abutting final bullet backstop, front center
PR4	N 39° 37.170’ W 104° 50.487’	Eastern edge of final bullet backstop, approximately 4 feet up slope
PR5	N 39° 37.171’ W 104° 50.479’	Center of final bullet backstop, approximately 4 feet up slope
PR6	N 39° 37.168’ W 104° 50.494’	Western soil stockpile abutting final bullet backstop, front center
PR7	N 39° 37.179’ W 104° 50.496’	Western berm, middle, approximately 4 feet up slope

Figure 2 shows the sampling locations at the rifle range and Figure 3 shows the sampling locations at the pistol range.

4.2 Sampling Protocol

A shovel, and in selected accessible locations, a backhoe were used to collect composite samples at predetermined depths, generally surface, 1 foot, and 2 feet. In line of fire areas, sampling pits were advanced along a horizontal access to best approximate bullet penetration. In areas outside the line of fire, sample pits were advance in a vertical direction to best approximate bullet and debris depth caused by soil mixing. Each gross sample was screened to remove rocks, debris and bullet casings and blended in a plastic bag to render it homogeneous. Samples were then delivered to MT^2, following proper chain-of-custody protocol, for analysis using a multi-element X-ray fluorescence (XRF) analyzer for total lead. Five samples with total lead concentration above 400 mg/kg were further analyzed by TCLP for lead as specified in EPA SW-846, Method 1311/6010.

4.3 Analytical Results

Tables 3 and 4 present the analytical results for the rifle and pistol ranges, respectively.

Table 3, XRF and TCLP Analysis Results, Rifle Range				
Sample Identification	**Depth (feet)**	**XRF Lead (mg/kg)**		**TCLP (mg/L)**
RR1-S	Surface	**424**	± 68	-
RR1-1	1	301	± 82	-
RR1-2	2	291	± 80	-
RR2-S	Surface	<83		-
RR2-1	1	<83		-
RR2-2	2	<79		-
RR3-S	Surface	**5,010**	± 270	-
RR3-1	1	**2,240**	± 160	-
RR3-2	2	**1,440**	± 140	**82**
RR4-S	Surface	**2,710**	± 180	-
RR4-1	1	272	± 85	-
RR4-2	2	<120		-
RR5-S	Surface	**>14,000**	± 1500	-
RR5-1	1	**>25,000**	± 2400	**1045**
RR5-2	2	**9,960**	± 800	-
RR5-2.5	2.5	**10,700**	± 910	-
RR5-3	3	**7,920**	± 480	-
RR5-3.5	3.5	**3,060**	± 130	-
RR5-4	4	<53		-
RR6-S	Surface	**6,910**	± 430	**550**
RR6-1	1	296	± 120	-
RR6-2	2	**1,050**	± 120	-
RR6-2 (2)	2	**440**	± 85	-
RR7-S	Surface	273	± 100	-
RR7-1	1	<130		-
RR7-2	2	<130		-
RR8-S	Surface	**1,100**	± 110	-
RR8-1	1	<130		-
RR8-2	2	<110		-
RR9-S	Surface	**715**	± 89	-
RR9-1	1	<130		-
RR10-S	Surface	**568**	± 75	-
RR10-1	1	<91		-

Note:
The last digit of the sample identification indicates the depth, in feet (S is for surface)
TCLP = Toxicity Characteristic Leaching Procedure
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
XRF = x-ray fluorescence

Table 4, XRF and TCLP Analysis Results, Pistol Range				
Sample Identification	**Depth (feet)**	**XRF Lead (mg/kg)**		**TCLP (mg/L)**
PR1-S	Surface	**1,440**	± 95	-
PR1-1	1	**1,430**	± 100	-
PR1-2	2	**1,080**	± 82	-
PR2-S	Surface	**3,750**	± 170	-
PR2-1	1	**2,170**	± 130	-
PR2-2	2	**1,790**	± 120	-
PR3-S	Surface	**2,530**	± 130	-
PR3-1	1	**1,490**	± 98	-
PR3-2	2	**648**	± 64	-
PR4-S	Surface	**10,900**	± 650	-
PR4-1	1	**3,790**	± 230	-
PR4-2	2	**3,240**	± 210	**412**
PR5-S	Surface	**7,510**	± 270	-
PR5-1	1	**7,490**	± 280	-
PR5-2	2	**2,380**	± 140	**370**
PR5-2.5	2.5	<100		
PR5-3	3	<96		
PR6-S	Surface	**1,370**	± 94	-
PR6-1	1	**776**	± 71	-
PR6-2	2	**736**	± 71	
PR6-2.5	2.5	177	± 100	
PR6-3	3	106	± 59	-
PR7-S	Surface	289	± 52	-
PR7-1	1	195	± 74	-
PR7-2	2	379	± 68	-

Note:
The last digit of the sample identification indicates the depth, in feet (S is for surface)
TCLP = Toxicity Characteristic Leaching Procedure
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
XRF = x-ray fluorescence

Based on the above results, the location and depth of soil to be removed were used to estimate removal areas. Soil with total lead concentrations above 400 mg/kg, the Colorado Department of Public Health and Environment's proposed residential cleanup standard, and the EPA's screening level, was selected for removal.

Please see Appendix B for laboratory results.

4.4 Treatability Study

A treatability study was conducted by MT^2 to determine application volumes of ECOBOND® on lead impacted soil. One sample from both the rifle range and pistol range were selected for application. ECOBOND® was added to these samples in varying by weight percentages and allowed to incubate and stabilize overnight. Samples were then analyzed by TCLP to determine the availability of leachable lead. Based on these results, a field application rate was determined to ensure leachable lead concentrations were below 5 mg/L. Table 5 presents the treatability study results.

Table 5, Treatability Study Results

Sample Identification	Sample Treatment Weight (grams)	ECOBOND® Addition	TCLP (mg/L)
PR5-2	NA	Untreated	370
PR5-2	100	1.0%	6.6
PR5-2	100	2.0%	1.1
PR5-2	100	3.0%	2.1
RR5-2	NA	Untreated	898
RR5-2	100	1.0%	582
RR5-2	100	2.0%	315
RR5-2	100	3.0%	55
RR5-2	100	4.0%	3.4

The complete treatability study is presented in Appendix C.

5.0 LEAD-IMPACTED SOIL REMOVAL, TREATMENT, AND DISPOSAL

This section addresses the events that were performed to accomplish the voluntary lead management at both the pistol and firing ranges. The activities occurred May 16 to 19, 2005 and May 31 to June 1, 2005. A photo log depicting the activities before, during, and after the work is presented in Appendix D and on the attached compact disc. All applicable field forms are included in Appendix E.

5.1 Pistol and Rifle Range Voluntary Lead Management

Versar and MT^2 personnel arrived on site on May 16, 2005. A site walkthrough was conducted to determine any hazards or inaccessible areas. A tailgate safety meeting was held to brief personnel on the work to be conducted and any inherent safety issues, anticipated problems, and emergency procedures. These procedures were followed each day work was conducted on-site.

Identified lead contaminated soils were removed using a backhoe with a 3-yard bucket, a small bobcat with a 2-yard bucket, and a 6-yard front-end loader. The front-end loader was used to transport contaminated soil to the stockpile location, located on the northern edge of the facilities parking lot. Contaminated soil was stockpiled on 6-millimeter high-density polyethylene

(HDPE), and surrounded by a constructed soil berm of approximately 2 feet in height. The berm was covered with 6-millimeter HDPE for additional containment. Daily, upon completion of work, the stockpiles were covered with additional 6-millimeter HDPE to minimize possible rainwater infiltration and/or dust emissions. During the course of soil removal, two soil stockpiles were created, with volumes estimated at approximately 460 cubic yards each. Final volumes will be determined in coordination with Colorado State Parks and after a review of waste transportation manifests and tickets.

The following tables identify the locations lead impacted soil was removed from, the representative samples, and the approximate volume of soil removed.

Table 6, Approximate Volume of Soil Removed, Rifle Range

Location	Representative Sample	Length (ft)	Height (ft)	Depth (ft)	Cubic Yards
First Berm	RR1	65	3	1	7.2
First Tier of Terminal Berm	RR4	70	5	1	13.0
Terminal Berm - Eastern Side	RR3, RR5, RR6	140	25	4	518.5
Terminal Berm Out of Line Of Fire- Western Side	RR10	50	25	1	46.3
Western Berm	RR9	75	10	1	27.8
Backside of Pistol Range Terminal Berm	RR8	50	5	1	9.3
				Total	**622.0**

Table 7, Approximate Volume of Soil Removed, Pistol Range

Location	Representative Sample	Length (ft)	Height (ft)	Depth (ft)	Cubic Yards
First Berm - Entire Berm	PR1	55	1	6	12.2
Second Berm	PR2	55	4	7	57.0
Soil Stockpile- Eastern Side - Entire Stockpile	PR3	15	15	6	50.0
Terminal Berm	PR4, PR5	70	25	2.5	162.0
Soil Stockpile- Western Side - Partial Stockpile	PR6	10	10	3	11.1
				Total	**292.4**

Concurrently, during the contaminated soil removal from the pistol and rifle ranges, clean soil was placed on the berms to replace the removed lead-impacted soil. The clean soil was placed to approximately resemble the shape of the previous berm, and modifications to both berm shape and height were made at the suggestion of range personnel. The soil was then compacted to minimize slumping. Clean soil was sourced from Pioneer Sand and Gravel Company, an off-site location.

Upon completion of contaminated soil removal from the pistol and rifle ranges, the contaminated soil stockpiles were treated with ECOBOND® for metal stabilization, at the prescribed average rate of 2.4% by weight of soil. A composite sample was then taken from each of the two soil stockpiles for analysis by EPA SW-846, Method 1311/6010, TCLP for lead. The composite

sample was collected by taking soil samples from random locations within the stockpile, combining the collected samples within a large, plastic bag and vigorously mixing. A sample was then taken from the plastic bag for analysis. The following table presents the laboratory results.

Table 8, Treated Soil Stockpiles TCLP Results	
Sample Identification	**TCLP (mg/L)**
West Stockpile	0.120
East Stockpile	1.04

Notes:
mg/L = milligrams per liter

Based on the above results, both of which were below the Resource Conservation and Recovery Act (RCRA) regulatory threshold of 5 mg/L, the soil was classified as non-hazardous waste for transportation and disposal.

Laboratory results are presented in Appendix B.

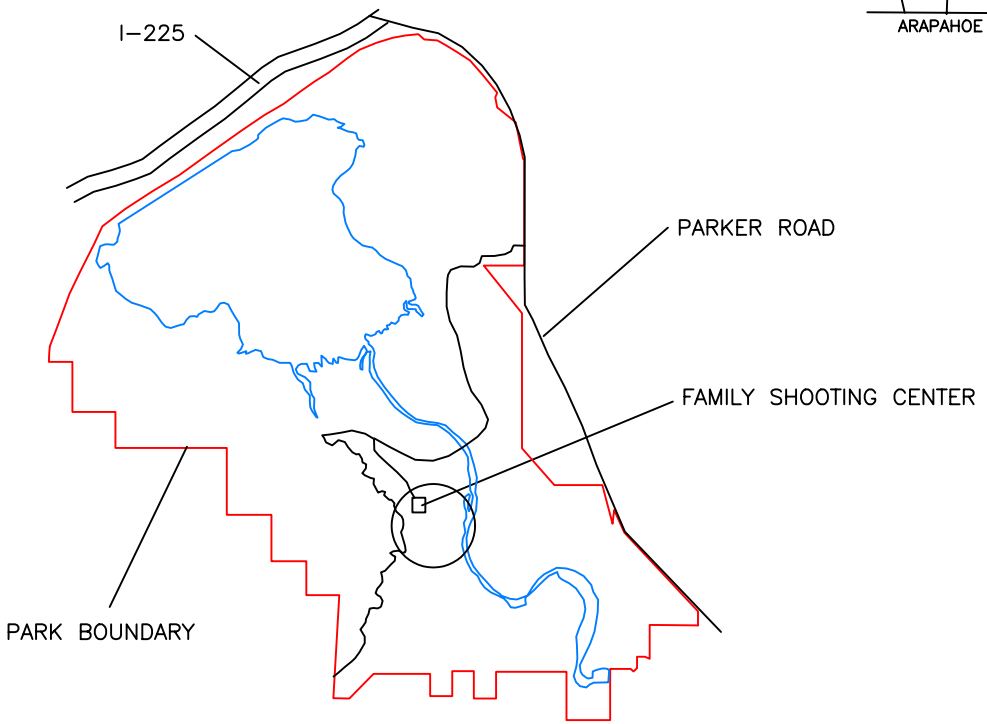
5.2 Transportation and Disposal

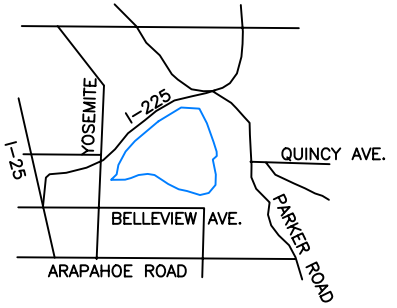
All soil removed from both the pistol and rifle ranges was transported to Tower Landfill facility for proper disposal. Both soil import and waste manifests have been provided to Colorado State Parks.

6.0 CONCLUSIONS

All identified lead impacted soil was successfully removed from the rifle and pistol ranges. All areas where lead-impacted soil was removed were backfilled, compacted, and finished to their original condition using imported cleanfill.

Figures





CHERRY CREEK STATE PARK

EXPLANATION

NOT TO SCALE

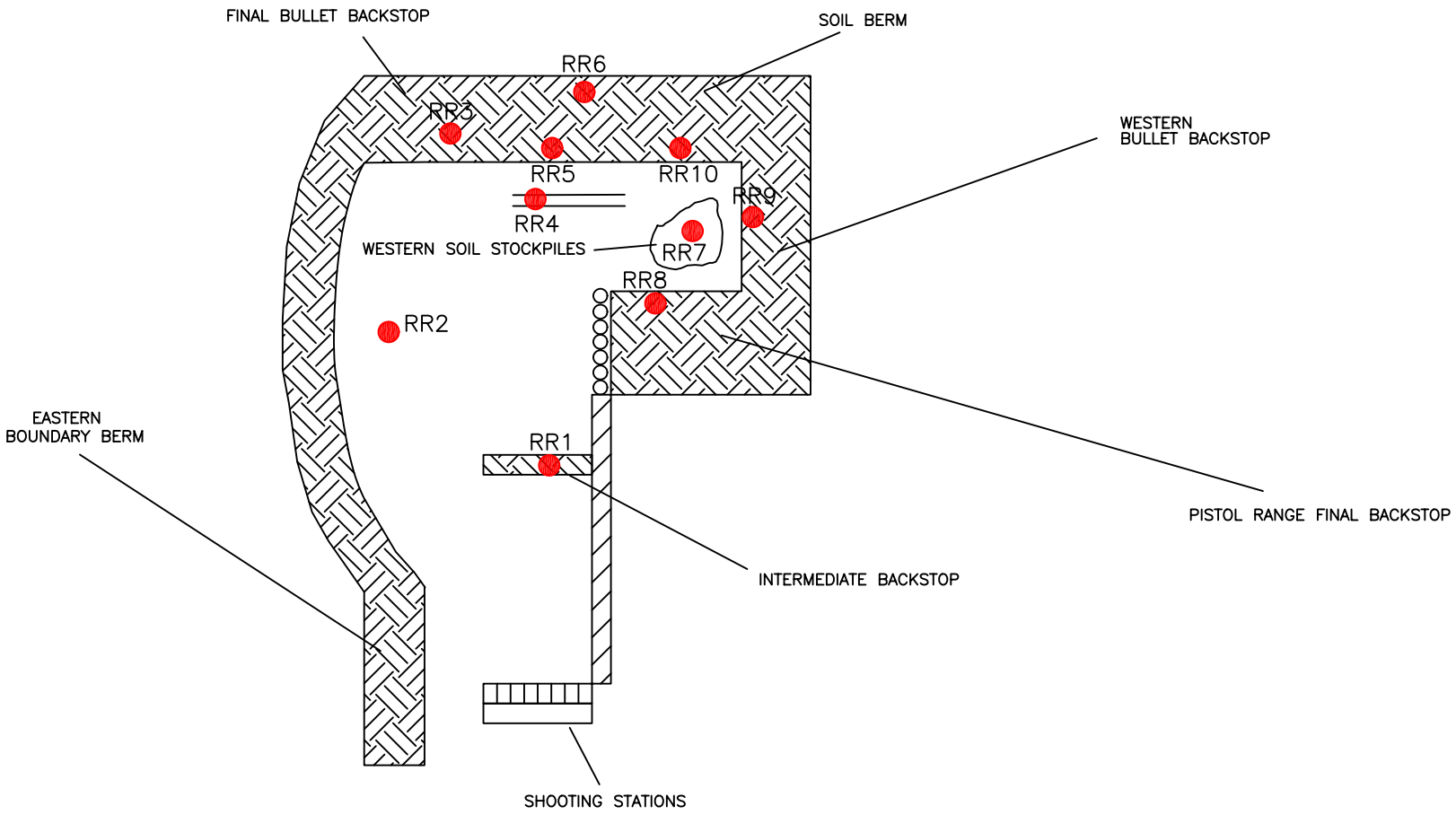
Q:\CHERRY–CR–STATE–PARK\111244–1244\001\062005\FIG1.DWG FIG1.PLT PLOTTED 6/20/05

FIGURE 1
SITE LOCATION MAP

DATE:	6/05
REV:	DRAFT
APPROVED:	ME
DRAWN:	MJ

Vernar Inc.

CHERRY CREEK STATE PARK
COLORADO



RIFLE RANGE

EXPLANATION

- SOIL SAMPLING LOCATION
- MASONRY WALL
- SOIL BERM

0 100 200 FT

SCALE

N

FIGURE 2
SAMPLING LOCATIONS
RIFLE RANGE

DATE:	6/05
REV:	DRAFT
APPROVED:	ME
DRAWN:	MJ

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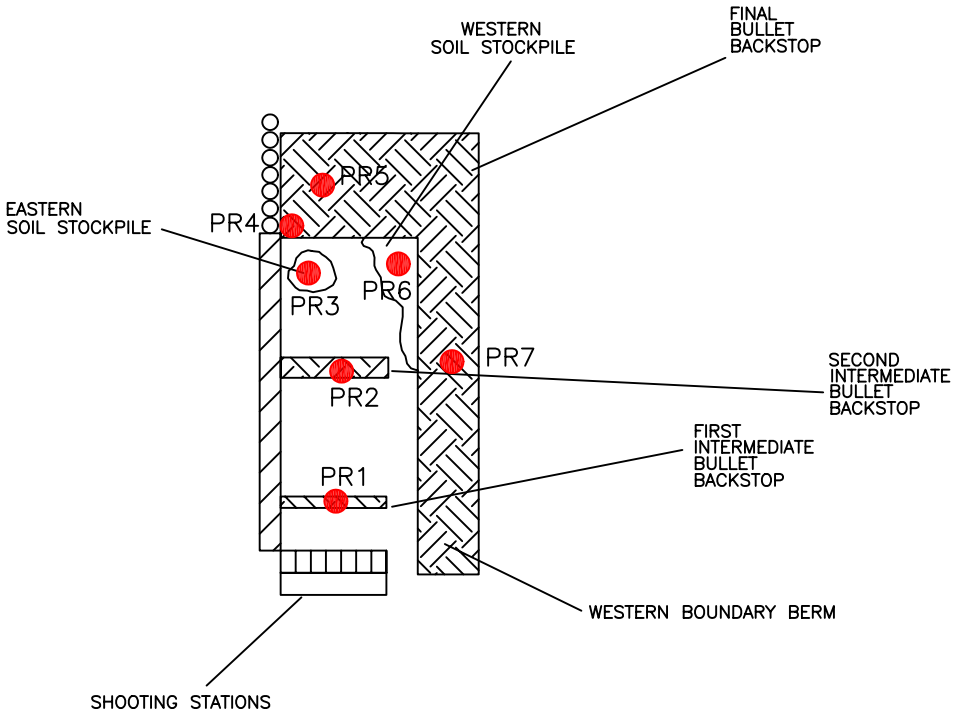
CHERRY CREEK STATE PARK
COLORADO

Q:\CHERRY-CR-STATE-PARK\111244-1244\001\062005\FIG2.DWG FIG2.PLT PLOTTED 6/20/05



PISTOL RANGE

EXPLANATION

- SOIL SAMPLING LOCATION
- MASONRY WALL
- SOIL BERM

0 100 200 FT

SCALE

N

Q:\CHERRY-CR-STATE-PARK\111244-1244\001\061005\FIG3.DWG FIG3.PLT PLOTTED 6/20/05

FIGURE 3
SAMPLING LOCATIONS
PISTOL RANGE

DATE:	6/05
REV:	DRAFT
APPROVED:	ME
DRAWN:	MJ

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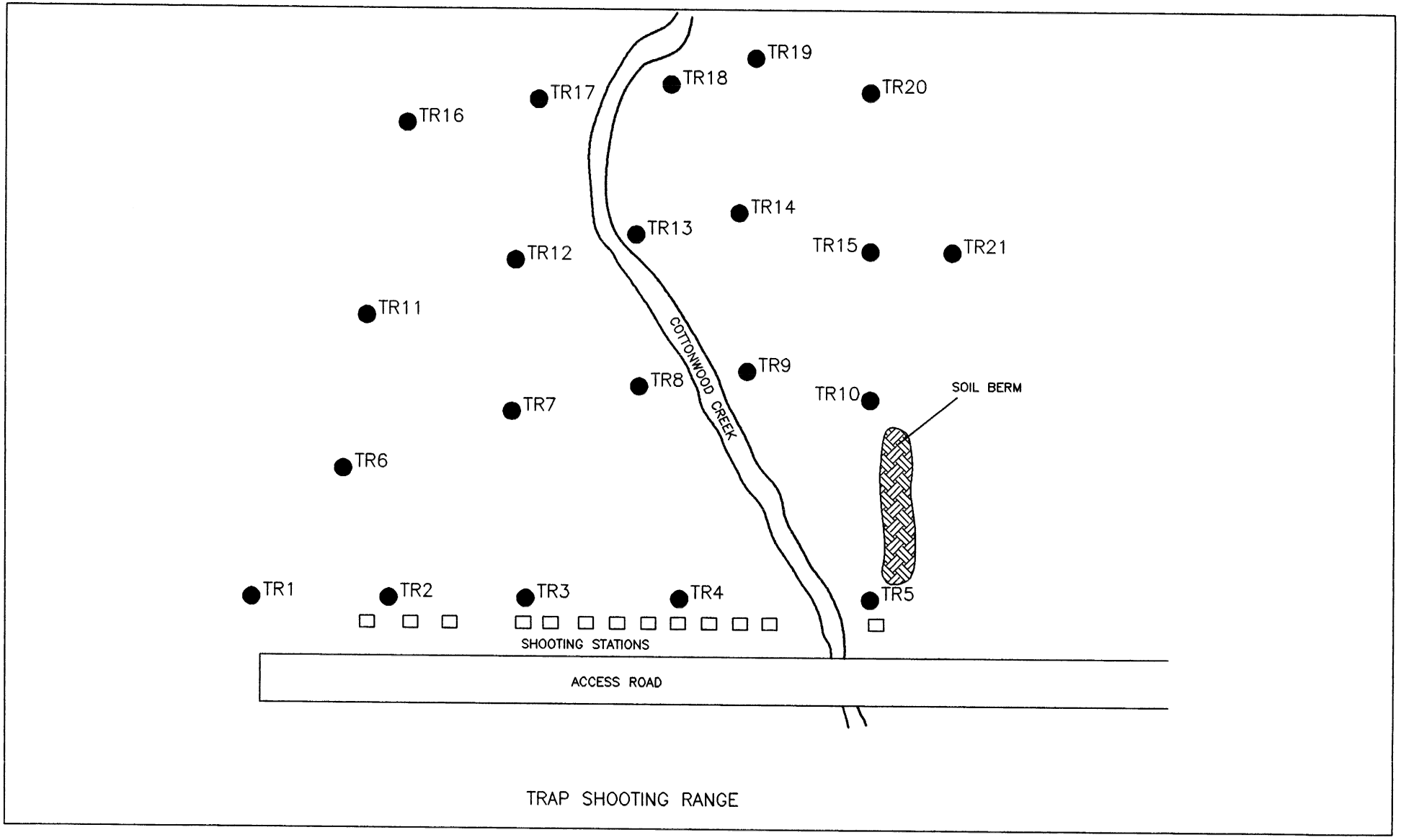
COLORADO

Appendix A
Trap Range Sampling



EXPLANATION

- ● PROPOSED SOIL SAMPLING
- □ SHOOTING STATION

0 200 400 FT

SCALE

N

FIGURE 1
SAMPLING LOCATIONS
TRAP SHOOTING RANGE

DATE:	2/05
REV:	DRAFT
APPROVED:	ME
DRAWN:	MJ

Versar Inc.

CHERRY CREEK STATE PARK
COLORADO

Q:\CHERRY-CR-STATE-PARK\111244-1244\001\020805\FIG1-APPENDIX.DWG FIG1-APPENDIX.PLT PLOTTED 6/20/05

Sample ID	GPS Coordinates	Location Notes
TR1	N 39° 37.219'	Western Boundary
	W 104° 50.761'	
TR2	N 39° 37.215'	Southern Boundary
	W 104° 50.726'	
TR3	N 39° 37.203'	Southern Boundary
	W 104° 50.670'	
TR4	N 39° 37.217'	Northern Boundary
	W 104° 50.623'	
TR5	N 39° 37.240'	Eastern Boundary
	W 104° 50.573'	
TR6	N 39° 37.257'	Western Boundary
	W 104° 50.779'	
TR7	N 39° 37.273'	Center
	W 104° 50.731'	
TR8	N 39° 37.270'	Northern Boundary
	W 104° 50.689'	
TR9	N 39° 37.274'	Center
	W 104° 50.649'	
TR10	N 39° 37.282'	Eastern Boundary
	W 104° 50.611'	
TR11	N 39° 37.297'	Western Boundary
	W 104° 50.786'	

Sample ID	GPS Coordinates	Location Notes
TR12	N 39° 37.298' W 104° 50.737'	Northern Boundary
TR13	N 39° 37.305' W 104° 50.693'	Center
TR14	N 39° 37.306' W 104° 50.656'	Center
TR15	N 39° 37.317' W 104° 50.625'	Eastern Boundary
TR16	N 39° 37.339' W 104° 50.783'	Western Boundary
TR17	N 39° 37.357' W 104° 50.745'	Center
TR18	N 39° 37.335' W 104° 50.687'	Center
TR19	N 39° 37.349' W 104° 50.667'	Center
TR20	N 39° 37.358' W 104° 50.632'	Eastern Boundary
TR21	N 39° 37.321' W 104° 50.589'	Eastern Boundary

Date:	1/27/05

XRF Analysis Of Cherry Creek Field Samples (3) Feb. 1, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	351	30	<37		37
	Prepared standard in quartz sar		1	352	30	1210	± 110	35
	5532 mg/kg NIST Pb [f]		1	354	30	4820	± 320	107
36	**RR6-S**		1	357	20	**6910**	± 430	
37	**RR6-1**		1	358	10	**296**	± 120	
38	**RR6-2**		1	359	30	**1050**	± 120	
39	**RR7-S**		1	360	15	**273**	± 100	
40	**RR7-1**		1	361	10	**<130**		130
43	**RR7-2**		1	362	10	**<130**		130
44	**RR8-S**		1	363	30	**1100**	± 110	
45	**RR8-1**		1	364	10	**<130**		130
46	**RR8-2**		1	365	10	**<110**		110
47	**RR9-S**			366	30	**715**	± 89	
48	**RR9-1**			367	10	**<130**		130
	Change XRF battery, recalibrate XRF internally							
	Quartz Sand Blank		1	369	30	<35		35
	Prepared standard in quartz sar		1	370	30	1110	± 100	33
	5532 mg/kg NIST Pb [f]		1	372	30	4860	± 330	110
49	**TR5-.5**		1	375	10	**<120**		120
50	**TR5-1**		1	376	15	**<100**		100
51	**TR10-.5**		1	377	20	**<70**		70
52	**TR10-1**		1	378	20	**<86**		86
53	**TR15-.5**		1	379	30	**558**	± 70	
54	**TR15-1**		1	381	30	**67**	± 44	
55	**TR20-.5**		1	382	30	**382**	± 76	
56	**TR20-1**		1	383	30	**<70**		70

a: Samples collected and identified by Matt Eyer of Versar on Feb. 1, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (4) Feb. 3, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	385	30	<41		37
	Prepared standard in quartz sar		1	386	30	1050	± 110	35
	5532 mg/kg NIST Pb [f]		1	388	30	4800	± 320	107
57	**TR1-.5**		1	389	10	**<100**		100
58	**TR1-1**		1	390	10	**<120**		120
59	**TR2-.5**		1	391	15	**<75**		75
60	**TR2-1**		1	393	15	**<87**		87
61	**TR3-.5**		1	393	15	**<91**		91
62	**TR3-1**		1	394	15	**<100**		100
63	**TR4-.5**		1	395	15	**114**	± 68	
64	**TR4-1**		1	396	15	**<100**		100
65	**TR6-.5**		1	397	15	**<99**		99
66	**TR6-1**		1	398	15	**<75**		75
	Change XRF battery, recalibrate XRF internally							
	Quartz Sand Blank		1	400	30	<42		42
	Prepared standard in quartz sar		1	401	30	1180	± 110	
	5532 mg/kg NIST Pb [f]		1	403	30	4830	± 330	
49	**TR7-.5**		1	404	15	**355**	± 97	
67	**TR7-1**		1	405	30	**<68**		68
68	**TR11-.5**		1	406	15	**<98**		98
69	**TR11-1**		1	407	15	**<95**		95
70	**TR12-.5**		1	408	15	**162**	± 78	
71	**TR12-1**		1	409	20	**<96**		96
72	**TR16-.5**		1	410	15	**<63**		63
73	**TR16-1**		1	411	15	**<130**		130
74	**TR17-.5**		1	412	28	**<64**		64
75	**TR17-1**		1	413	20	**<73**		73

a: Samples collected and identified by Matt Eyer of Versar on Feb. 1, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (5) Feb. 4, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	415	30	<39		39
	Prepared standard in quartz sar		1	416	60	1150	± 69	
	5532 mg/kg NIST Pb [f]		1	420	30	4830	± 460	
76	TR8-.5		1	421	15	<89		89
77	TR8-1		1	422	15	<130		130
78	TR9-.5		1	423	15	<98		98
79	TR9-1		1	424	15	<130		130
80	TR13-.5			425	15	695	± 160	
81	TR13-.5		1	426	15	1440	± 180	
82	TR13-1		1	427	30	90	± 52	
83	TR14-.5		1	428	30	160	± 70	
84	TR14-1		1	430	15	<90		90
85	TR18-.5		1	431	30	157	± 58	
86	TR18-1		1	432	30	356	± 72	
87	TR19-.5		1	433	30	111	± 51	
88	TR19-1		1	434	30	<68		68

a: Samples collected and identified by Matt Eyer of Versar on Feb. 4, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (6) Feb. 8, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	436	30	<35		35
	Prepared standard in quartz sar		1	437	30	1200	± 110	
	5532 mg/kg NIST Pb [f]		1	440	30	5010	± 530	
89	**RR5-2**		1	441	15	**9960**	± 800	
90	**RR6-2 (duplicate)**		1	442	25	**440**	± 85	
91	**TR21-6"**		1	443	15	**300**	± 93	
92	**TR21-1**		1	444	15	**876**	± 140	

a: Samples collected and identified by Matt Eyer of Versar on Feb. 8, 05

b:

c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².

d: the analysis or reading number that is stored in the XRF

e: the amount of time that XRF is exposed to the sample

f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (7) Feb. 12, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	450	30	<40		40
	Prepared standard in quartz sar		1	451	30	1260	± 110	
	5532 mg/kg NIST Pb [f]		1	452	30	4860	± 540	
	TR21-1	Hold						
93	TR21-2		1	453	15	**<110**		110
94	TR22-.5		1	455	15	**<100**		100
95	TR22-1		1	456	30	**77**	± 48	
96	TR23-.5		1	457	30	**83**	± 50	
97	TR23-1		1	459	30	**<72**		72
98	RR5-2.5		1	460	15	**10.7k**	± 910	
99	RR5-3		1	461	25	**7920**	± 480	
	RR5-3.5	~~Hold~~				3,060	± 130	
	RR5-4	~~Hold~~				<53		
100	RR10-S		1	462	30	**568**	± 75	
101	RR10-1		1	463	15	**<91**		91
	RR10-2	Hold						
	RR10-3	Hold						
102	PR5-2.5		1	464	15	**<100**		100
103	PR5-3		1	465	15	**<96**		96
	PR5-3.5	Hold						
	PR5-4	Hold						
104	PR6-2.5		1	466	30	**736**	± 100	
105	PR6-3		1	467	30	**177**	± 59	
	PR6-3.5	Hold						
	PR6-4	Hold						

> analyzed 2/17

a: Samples collected and identified by Matt Eyer of Versar on Feb. 11, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG182949

Lab Name : Kemron Environmental Services Contract#: Gary Torf

Field Sample ID: TR20-6 Lab Sample ID: L0502227-01 Matrix: Soil

% Solids: 100 Initial Calibration ID: IRIS-ICP 16-FEB-05

Date Received: 10-FEB-05 Date Extracted: 11-FEB-05 Date Analyzed: 16-FEB-05 13:38:00

Concentration Units: mg/kg File ID: IR.021605.133800 Pre-Prep Method/Date: /

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Lead, Total	0.481	4.81	147	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG182949

Lab Name : Kemron Environmental Services Contract#: Gary Torf

Field Sample ID: TR18-1 Lab Sample ID: L0502227-02 Matrix: Soil

% Solids: 100 Initial Calibration ID: IRIS-ICP 16-FEB-05

Date Received: 10-FEB-05 Date Extracted: 11-FEB-05 Date Analyzed: 16-FEB-05 13:44:00

Concentration Units: mg/kg File ID: IR.021605.134400 Pre-Prep Method/Date: /

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Lead, Total	0.481	4.81	21.2	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

LABORATORY REPORT

L0502227

02/17/05 12:18

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Versar Denver, Colorado
11990 Grant St.
Suite 500
Northglenn, CO 80233
Attention: Garv Torf

Account Number: 467-CO-454
Work ID: VOLUNTARY LAND MANAGEMENT

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
TR20-6	L0502227-01	01-FEB-05	10-FEB-05
TR18-1	L0502227-02	04-FEB-05	10-FEB-05
RR6-2	L0502227-03	01-FEB-05	10-FEB-05
PR4-2	L0502227-04	28-JAN-05	10-FEB-05

KEMRON ENVIRONMENTAL SERVICES

Report Number: L0502227

Report Date : February 17, 2005

Sample Number: L0502227-01
Client ID: TR20-6
Matrix: Soil
Workgroup Number: WG182949
Collect Date: 01-FEB-05
Sample Tag: 01

Prep Method: 3050B
Analytical Method: 6010B
Analyst: JYH
Dilution: 1
Units: mg/kg
Percent Solid: 100

Instrument: IRIS-ICP
Prep Date: 02/11/2005 06:00
Cal Date: 02/16/2005 10:27
Run Date: 02/16/2005 13:38
File ID: IR.021605.133800

Analyte	CAS. Number	Result	Qual	RL	MDL
Lead, Total	7439-92-1	147		4.81	0.481

Sample Number: L0502227-02
Client ID: TR18-1
Matrix: Soil
Workgroup Number: WG182949
Collect Date: 04-FEB-05
Sample Tag: 01

Prep Method: 3050B
Analytical Method: 6010B
Analyst: JYH
Dilution: 1
Units: mg/kg
Percent Solid: 100

Instrument: IRIS-ICP
Prep Date: 02/11/2005 06:00
Cal Date: 02/16/2005 10:27
Run Date: 02/16/2005 13:44
File ID: IR.021605.134400

Analyte	CAS. Number	Result	Qual	RL	MDL
Lead, Total	7439-92-1	21.2		4.81	0.481

Sample Number: L0502227-03
Client ID: RR6-2
Matrix: Soil
Workgroup Number: WG182949
Collect Date: 01-FEB-05
Sample Tag: 01

Prep Method: 3050B
Analytical Method: 6010B
Analyst: JYH
Dilution: 1
Units: mg/kg
Percent Solid: 100

Instrument: IRIS-ICP
Prep Date: 02/11/2005 06:00
Cal Date: 02/16/2005 10:27
Run Date: 02/16/2005 13:49
File ID: IR.021605.134900

Analyte	CAS. Number	Result	Qual	RL	MDL
Lead, Total	7439-92-1	2700		4.76	0.476

Sample Number: L0502227-04
Client ID: PR4-2
Matrix: Soil
Workgroup Number: WG182949
Collect Date: 28-JAN-05
Sample Tag: DL01

Prep Method: 3050B
Analytical Method: 6010B
Analyst: JYH
Dilution: 50
Units: mg/kg
Percent Solid: 100

Instrument: IRIS-ICP
Prep Date: 02/11/2005 06:00
Cal Date: 02/16/2005 10:27
Run Date: 02/16/2005 18:19
File ID: IR.021605.181900

Analyte	CAS. Number	Result	Qual	RL	MDL
Lead, Total	7439-92-1	23700		243	24.3

Appendix B
Laboratory Analytical Data

XRF Analysis Of Cherry Creek Field Samples (1) Jan. 27, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] (sec)	XRF Pb (mg/kg)	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	295	60sec	<28		DL = 28
	5532 mg/kg NIST Pb [f]		1	297	60 sec	4730		DL = 73
1	**PR1-S**		1	300	60sec	**1440**	± 95	
2	**PR1-1**		1	301	60sec	**1430**	± 100	
3	**PR1-2**		1	302	60sec	**1080**	± 82	
4	**PR2-S**		1	303	60sec	**3750**	± 170	
5	**PR2-1**		1	304	60sec	**2170**	± 130	
6	**PR2-2**		1	305	60sec	**1790**	± 120	
7	**PR3-S**		1	306	60sec	**2530**	± 130	
8	**PR3-1**		1	307	60sec	**1490**	± 98	
9	**PR3-2**		1	309	60sec	**648**	± 64	
10	**PR4-S**		1	310	20sec	**10,900**	± 650	
	Change XRF battery, recalibrate XRF internally							
	Quartz Sand Blank		1	312	60sec	<34		DL = 34
	5532 mg/kg NIST Pb [f]		1	313	60sec	4810		DL = 77
11	**PR5-S**		1	314	60sec	**7510**	± 270	
12	**PR5-1**		1	315	60sec	**7490**	± 280	
13	**PR6-S**		1	316	60sec	**1370**	± 94	
14	**PR6-1**		1	317	60sec	**776**	± 71	
15	**PR6-2**		1	318	20sec	**106**	± 60	
16	**PR7-S**		1	319	40sec	**289**	± 52	
17	**PR7-1**		1	320	20sec	**195**	± 74	
18	**PR7-2**		1	321	30sec	**379**	± 68	

a: Samples collected and identified by Matt Eyer of Versar on Jan. 27, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (2) Jan. 31, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	324	30	<40		40
	Prepared standard in quartz san		1	325	30	1160	± 100	
	5532 mg/kg NIST Pb [f]		1	326	30	4800	± 320	107
19	**PR4-1**		1	328	30	**3790**	± 230	
20	**PR4-2**		1	329	30	**3240**	± 210	
21	**PR5-2**		1	330	30	**2380**	± 140	
22	**RR1-S**		1	331	30	**424**	± 68	
23	**RR1-1**		1	332	20	**301**	± 82	
24	**RR1-2**		1	333	20	**291**	± 80	
25	**RR2-S**		1	334	20	**<83**		83
26	**RR2-1**		1	335	20	**<83**		83
27	**RR2-2**		1	336	20	**<79**		79
	Change XRF battery, recalibrate XRF internally							
	Quartz Sand Blank		1	338	30	<45		45
	Prepared standard in quartz san		1	339	30	1140	± 100	
	5532 mg/kg NIST Pb [f]		1	341	30	5070	± 330	
28	**RR3-S**		1	342	30	**5010**	± 270	
29	**RR3-1**		1	343	30	**2240**	± 160	
30	**RR3-2**		1	344	30	**1440**	± 140	
31	**RR4-S**		1	345	30	**2710**	± 180	
32	**RR4-1**		1	346	20	**272**	± 85	
33	**RR4-2**		1	347	15	**<120**		120
34	**RR5-S**		1	348	10	**>14,000**	± 1500	
35	**RR5-1**		1	349	10	**>25,000**	± 2400	

a: Samples collected and identified by Matt Eyer of Versar on Jan. 28, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (3) Feb. 1, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	351	30	<37		37
	Prepared standard in quartz sar		1	352	30	1210	± 110	35
	5532 mg/kg NIST Pb[f]		1	354	30	4820	± 320	107
36	**RR6-S**		1	357	20	**6910**	± 430	
37	**RR6-1**		1	358	10	**296**	± 120	
38	**RR6-2**		1	359	30	**1050**	± 120	
39	**RR7-S**		1	360	15	**273**	± 100	
40	**RR7-1**		1	361	10	**<130**		130
43	**RR7-2**		1	362	10	**<130**		130
44	**RR8-S**		1	363	30	**1100**	± 110	
45	**RR8-1**		1	364	10	**<130**		130
46	**RR8-2**		1	365	10	**<110**		110
47	**RR9-S**			366	30	**715**	± 89	
48	**RR9-1**			367	10	**<130**		130
	Change XRF battery, recalibrate XRF internally							
	Quartz Sand Blank		1	369	30	<35		35
	Prepared standard in quartz sar		1	370	30	1110	± 100	33
	5532 mg/kg NIST Pb[f]		1	372	30	4860	± 330	110
49	**TR5-.5**		1	375	10	**<120**		120
50	**TR5-1**		1	376	15	**<100**		100
51	**TR10-.5**		1	377	20	**<70**		70
52	**TR10-1**		1	378	20	**<86**		86
53	**TR15-.5**		1	379	30	**558**	± 70	
54	**TR15-1**		1	381	30	**67**	± 44	
55	**TR20-.5**		1	382	30	**382**	± 76	
56	**TR20-1**		1	383	30	**<70**		70

a: Samples collected and identified by Matt Eyer of Versar on Feb. 1, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (4) Feb. 3, 05

	Client/Field I.D. [a]	MT[2] I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time[e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	385	30	<41		37
	Prepared standard in quartz sar		1	386	30	1050	± 110	35
	5532 mg/kg NIST Pb[f]		1	388	30	4800	± 320	107
57	**TR1-.5**		1	389	10	**<100**		100
58	**TR1-1**		1	390	10	**<120**		120
59	**TR2-.5**		1	391	15	**<75**		75
60	**TR2-1**		1	393	15	**<87**		87
61	**TR3-.5**		1	393	15	**<91**		91
62	**TR3-1**		1	394	15	**<100**		100
63	**TR4-.5**		1	395	15	**114**	± 68	
64	**TR4-1**		1	396	15	**<100**		100
65	**TR6-.5**		1	397	15	**<99**		99
66	**TR6-1**		1	398	15	**<75**		75
	Change XRF battery, recalibrate XRF internally							
	Quartz Sand Blank		1	400	30	<42		42
	Prepared standard in quartz sar		1	401	30	1180	± 110	
	5532 mg/kg NIST Pb[f]		1	403	30	4830	± 330	
49	**TR7-.5**		1	404	15	**355**	± 97	
67	**TR7-1**		1	405	30	**<68**		68
68	**TR11-.5**		1	406	15	**<98**		98
69	**TR11-1**		1	407	15	**<95**		95
70	**TR12-.5**		1	408	15	**162**	± 78	
71	**TR12-1**		1	409	20	**<96**		96
72	**TR16-.5**		1	410	15	**<63**		63
73	**TR16-1**		1	411	15	**<130**		130
74	**TR17-.5**		1	412	28	**<64**		64
75	**TR17-1**		1	413	20	**<73**		73

a: Samples collected and identified by Matt Eyer of Versar on Feb. 1, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT[2].
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (5) Feb. 4, 05

	Client/Field I.D. [a]	MT[2] I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time[e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	415	30	<39		39
	Prepared standard in quartz sar		1	416	60	1150	± 69	
	5532 mg/kg NIST Pb[f]		1	420	30	4830	± 460	
76	**TR8-.5**		1	421	15	**<89**		89
77	**TR8-1**		1	422	15	**<130**		130
78	**TR9-.5**		1	423	15	**<98**		98
79	**TR9-1**		1	424	15	**<130**		130
80	**TR13-.5**			425	15	**695**	± 160	
81	**TR13-.5**		1	426	15	**1440**	± 180	
82	**TR13-1**		1	427	30	**90**	± 52	
83	**TR14-.5**		1	428	30	**160**	± 70	
84	**TR14-1**		1	430	15	**<90**		90
85	**TR18-.5**		1	431	30	**157**	± 58	
86	**TR18-1**		1	432	30	**356**	± 72	
87	**TR19-.5**		1	433	30	**111**	± 51	
88	**TR19-1**		1	434	30	**<68**		68

a: Samples collected and identified by Matt Eyer of Versar on Feb. 4, 05

b:

c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT[2].

d: the analysis or reading number that is stored in the XRF

e: the amount of time that XRF is exposed to the sample

f: XRF soil standards supplied by Niton and traceable to NIST

XRF Analysis Of Cherry Creek Field Samples (6) Feb. 8, 05

	Client/Field I.D. [a]	MT[2] I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	436	30	<35		35
	Prepared standard in quartz sar		1	437	30	1200	± 110	
	5532 mg/kg NIST Pb [f]		1	440	30	5010	± 530	
89	**RR5-2**		1	441	15	**9960**	± 800	
90	**RR6-2 (duplicate)**		1	442	25	**440**	± 85	
91	**TR21-6"**		1	443	15	**300**	± 93	
92	**TR21-1**		1	444	15	**876**	± 140	

a: Samples collected and identified by Matt Eyer of Versar on Feb. 8, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT[2].
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

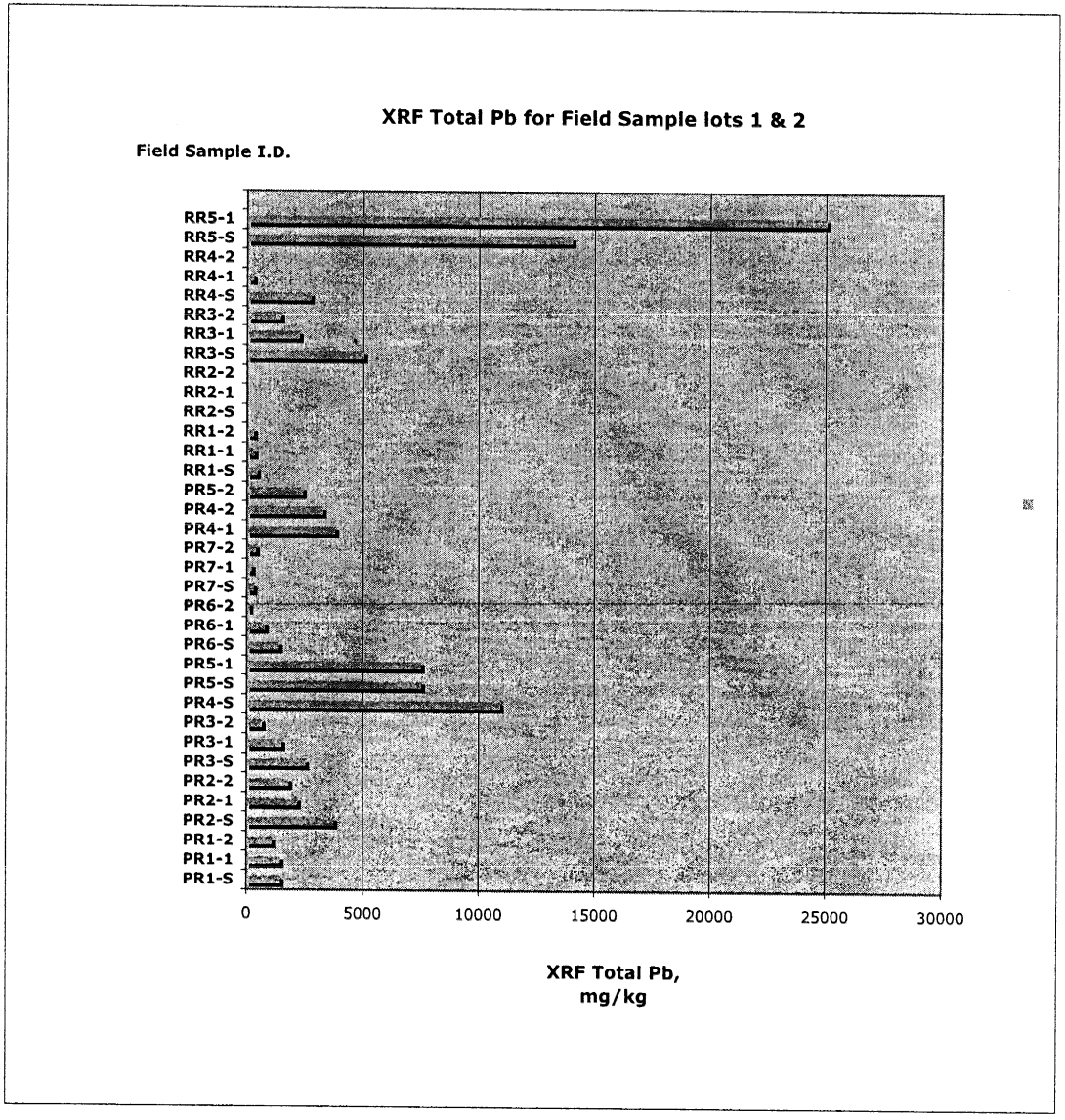
XRF Analysis Of Cherry Creek Field Samples (7) Feb. 12, 05

	Client/Field I.D. [a]	MT² I.D. [b]	Analyst I.D. [c]	XRF Analysis # [d]	XRF time [e] sec	XRF Pb mg/kg	S.D. (std. dev.)	DL (det. lim.)
	Quartz Sand Blank		1	450	30	<40		40
	Prepared standard in quartz sar		1	451	30	1260	± 110	
	5532 mg/kg NIST Pb [f]		1	452	30	4860	± 540	
	TR21-1	Hold						
93	TR21-2		1	453	15	**<110**		110
94	TR22-.5		1	455	15	**<100**		100
95	TR22-1		1	456	30	**77**	± 48	
96	TR23-.5		1	457	30	**83**	± 50	
97	TR23-1		1	459	30	**<72**		72
98	RR5-2.5		1	460	15	**10.7k**	± 910	
99	RR5-3		1	461	25	**7920**	± 480	
	RR5-3.5	Hold				3,060	± 130	
	RR5-4	Hold				<53		
100	RR10-S		1	462	30	**568**	± 75	
101	RR10-1		1	463	15	**<91**		91
	RR10-2	Hold						
	RR10-3	Hold						
102	PR5-2.5		1	464	15	**<100**		100
103	PR5-3		1	465	15	**<96**		96
	PR5-3.5	Hold						
	PR5-4	Hold						
104	PR6-2.5		1	466	30	**736**	± 100	
105	PR6-3		1	467	30	**177**	± 59	
	PR6-3.5	Hold						
	PR6-4	Hold						

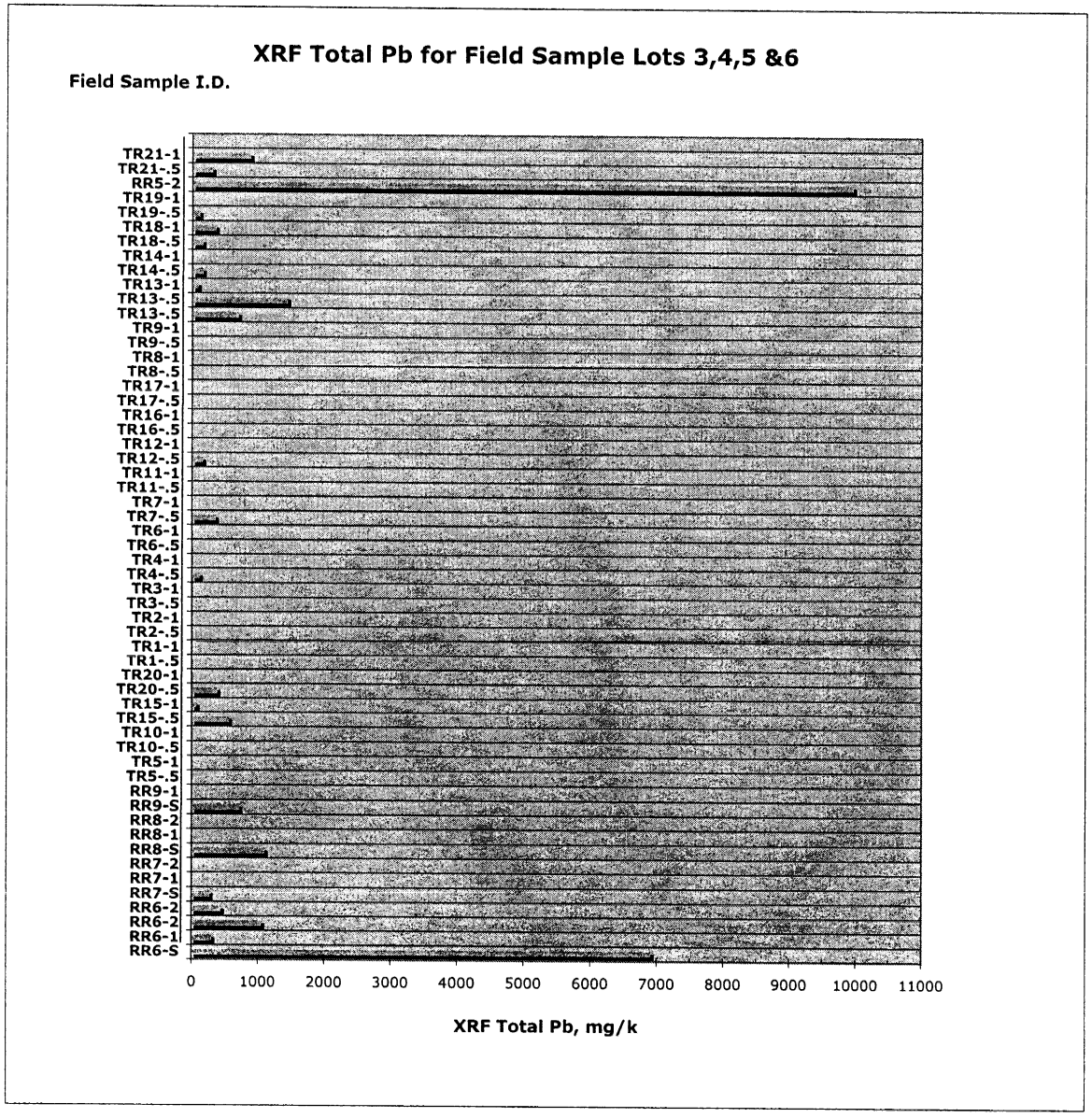
analyzed 2/17

a: Samples collected and identified by Matt Eyer of Versar on Feb. 11, 05
b:
c: Analyst #1 is T. E. Moody, Niton Certified Operator, MT².
d: the analysis or reading number that is stored in the XRF
e: the amount of time that XRF is exposed to the sample
f: XRF soil standards supplied by Niton and traceable to NIST

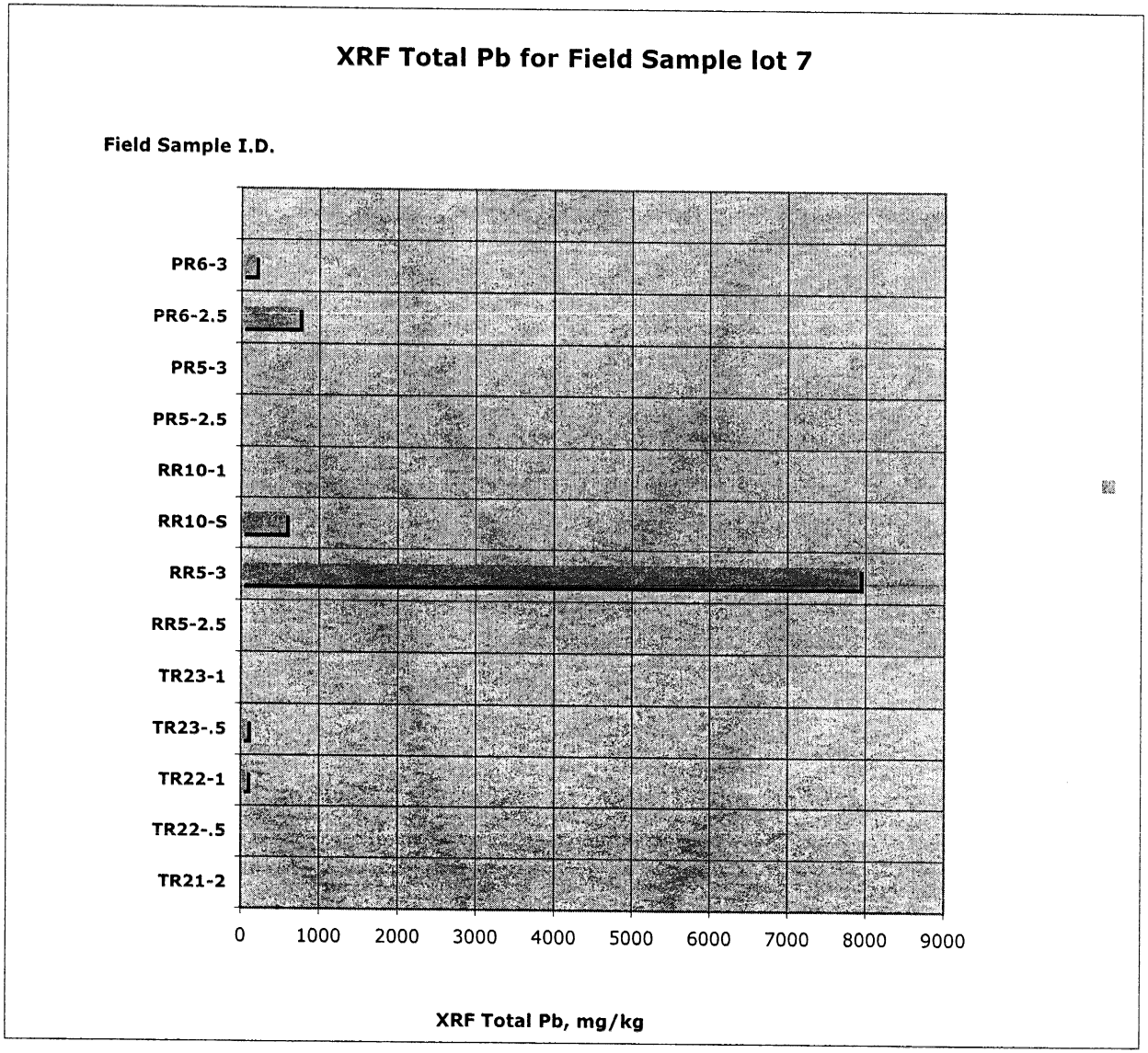
PR1-S	1440
PR1-1	1430
PR1-2	1080
PR2-S	3750
PR2-1	2170
PR2-2	1790
PR3-S	2530
PR3-1	1490
PR3-2	648
PR4-S	10,900
PR5-S	7510
PR5-1	7490
PR6-S	1370
PR6-1	776
PR6-2	106
PR7-S	289
PR7-1	195
PR7-2	379
PR4-1	3790
PR4-2	3240
PR5-2	2380
RR1-S	424
RR1-1	301
RR1-2	291
RR2-S	<83
RR2-1	<83
RR2-2	<79
RR3-S	5010
RR3-1	2240
RR3-2	1440
RR4-S	2710
RR4-1	272
RR4-2	<120
RR5-S	14,000
RR5-1	25,000



RR6-S	6910
RR6-1	296
RR6-2	1050
RR6-2	440
RR7-S	273
RR7-1	<130
RR7-2	<130
RR8-S	1100
RR8-1	<130
RR8-2	<110
RR9-S	715
RR9-1	<130
TR5-.5	<120
TR5-1	<100
TR10-.5	<70
TR10-1	<86
TR15-.5	558
TR15-1	67
TR20-.5	382
TR20-1	<70
TR1-.5	<100
TR1-1	<120
TR2-.5	<75
TR2-1	<87
TR3-.5	<91
TR3-1	<100
TR4-.5	114
TR4-1	<100
TR6-.5	<99
TR6-1	<75
TR7-.5	355
TR7-1	<68
TR11-.5	<98
TR11-1	<95
TR12-.5	162
TR12-1	<96
TR16-.5	<63
TR16-1	<130
TR17-.5	<64
TR17-1	<73
TR8-.5	<89
TR8-1	<130
TR9-.5	<98
TR9-1	<130
TR13-.5	695
TR13-.5	1440
TR13-1	90
TR14-.5	160
TR14-1	<90
TR18-.5	157
TR18-1	356
TR19-.5	111
TR19-1	<68
RR5-2	9960
TR21-.5	300
TR21-1	876



TR21-2	<110
TR22-.5	<100
TR22-1	77
TR23-.5	83
TR23-1	<72
RR5-2.5	10.7k
RR5-3	7920
RR10-S	568
RR10-1	<91
PR5-2.5	<100
PR5-3	<96
PR6-2.5	736
PR6-3	177



Gary Torf/Chris Purcell/Versar Inc/CRC
11990 Grant Street Suite 500
Northglenn CO 80233-1136

Colorado State University
Soil, Water and Plant Testing Laboratory
Natural & Environmental Sciences Bldg - A319
Fort Collins, CO 80523-1120

(970) 491-5061 FAX: 491-2930

DATE RECEIVED: 06-10-2005
DATE REPORTED: 06-10-2005

BILLING:

RESEARCH SOIL ANALYSIS

Lab #	Sample ID #	% moisture	As Received bulk density g/cm^3	As Received bulk density lbs/ft^3
R5194	PR2-surface	6.7	1.22	76.3
R5195	RR5 ~~PR5~~ 3.5	6.1	1.36	85.0

KEMRON REPORT L0502227

PREPARED FOR: VERSAR

WORK ID: VOLUNTARY LAND MANAGEMENT FAMILY SHOOTING CENTER

KEMRON
ENVIRONMENTAL SERVICES

156 Starlite Drive, Marietta, OH 45750 • TEL 740-373-4071 • FAX 740-373-4835 • http://www.kemron.com

Laboratory Report Number: L0502227

Please find enclosed the analytical results for the samples you submitted to KEMRON Environmental Services.

Review and compilation of your report was completed by KEMRON's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact our team member noted in the Reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Debra Elliott - Team Leader
delliott@kemron-lab.com

Cheryl Koelsch - Team Chemist/Data Specialist
ckoelsch@kemron-lab.com

Stephanie Mossburg - Team Chemist/Data Specialist
smossburg@kemron-lab.com

Kathy Albertson - Team Chemist/Data Specialist
kalbertson@kemron-lab.com

Micalyn Harris - Team Chemist/Data Specialist
mharris@kemron-lab.com

Amanda Fickiesen - Client Services Specialist
afickiesen@kemron-lab.com

Nina Scott - Client Services Specialist
ascott@kemron-lab.com

Vicki Lauer - Client Services Specialist
vlauer@kemron-lab.com

This report was reviewed on February 17, 2005:

Stephanie Mossburg

I certify that all test results meet all of the requirments of the NELAP standards and other applicable contract terms and conditions. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on an 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of KEMRON Environmental Services.

This report was certified on February 17, 2005:

David E. Vanderberg

FL DOH NELAP ID: E87551

This report contains a total of **208** pages.

Protecting Our Environmental Future

1.0 Summary Report

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

KEMRON Login No.: L0502227

CHAIN OF CUSTODY: The chain of custody number was 992753.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler.

SAMPLE MANAGEMENT: All samples received were intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Approved: 14-FEB-05
Stephanie Moseley

REPORT NARRATIVE
METALS

KEMRON Login No: L0502227

METHOD

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration : All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Sample: All acceptance criteria were met.
Serial Dilution/Post Digestion Spike: WG182949(6010) - All acceptance criteria were met.

SAMPLES

WG182949(6010) - Lead for sample 04 yielded a result which exceeded the linear range upon initial analysis. The sample was reanalyzed at a dilution for lead.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: JYH/MMB

Rev. 6/00

Approved: February 17, 2005
Maren Berry

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA PACKAGE

Analytical Method : 6010B

AAB # : WG182949

Lab Name : Kemron Environmental Services

Contract # :

Base/Command : Riverdale Rd. Properties

Prime Contractor : Versar Denver, Colorado

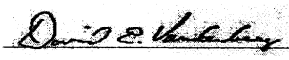
Field sample ID	Lab Sample ID
TR20-6	L0502227-01
TR18-1	L0502227-02
RR6-2	L0502227-03
PR4-2	L0502227-04

Comments:

RS=Parent Sample, MS or SS=Matrix Spike, SD=Spike Duplicate, DS=Duplicate Sample.

Suffix Matches parent to QC

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee,

Signature: 

Name: David E. Vandenberg

Date: 17-FEB-05

Title: Laboratory Director

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG182949

Lab Name : Kemron Environmental Services Contract#: Gary Torf

Field Sample ID: TR20-6 Lab Sample ID: L0502227-01 Matrix: Soil

% Solids: 100 Initial Calibration ID: IRIS-ICP 16-FEB-05

Date Received: 10-FEB-05 Date Extracted: 11-FEB-05 Date Analyzed: 16-FEB-05 13:38:00

Concentration Units: mg/kg File ID: IR.021605.133800 Pre-Prep Method/Date: /

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Lead, Total	0.481	4.81	147	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG182949

Lab Name : Kemron Environmental Services Contract#: Gary Torf

Field Sample ID: TR18-1 Lab Sample ID: L0502227-02 Matrix: Soil

% Solids: 100 Initial Calibration ID: IRIS-ICP 16-FEB-05

Date Received: 10-FEB-05 Date Extracted: 11-FEB-05 Date Analyzed: 16-FEB-05 13:44:00

Concentration Units: mg/kg File ID: IR.021605.134400 Pre-Prep Method/Date: /

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Lead, Total	0.481	4.81	21.2	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG182949

Lab Name : Kemron Environmental Services Contract#: Gary Torf

Field Sample ID: RR6-2 Lab Sample ID: L0502227-03 Matrix: Soil

% Solids: 100 Initial Calibration ID: IRIS-ICP 16-FEB-05

Date Received: 10-FEB-05 Date Extracted: 11-FEB-05 Date Analyzed: 16-FEB-05 13:49:00

Concentration Units: mg/kg File ID: IR.021605.134900 Pre-Prep Method/Date: /

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Lead, Total	0.476	4.76	2700	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES

ANALYSES DATA SHEET 2

RESULTS

Analytical Method : 6010B Preparatory Method: 3050B AAB # : WG182949

Lab Name : Kemron Environmental Services Contract#: Gary Torf

Field Sample ID: PR4-2 Lab Sample ID: L0502227-04 Matrix: Soil

% Solids: 100 Initial Calibration ID: IRIS-ICP 16-FEB-05

Date Received: 10-FEB-05 Date Extracted: 11-FEB-05 Date Analyzed: 16-FEB-05 18:19:00

Concentration Units: mg/kg File ID: IR.021605.181900 Pre-Prep Method/Date: /

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Lead, Total	24.3	243	23700	50	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

1.2 Attachments

Kemron Environmental Services
Analyst Listing
February 17, 2005

AJF - AMANDA J. FICKIESEN
ALB - ANNIE L. BOCK
ALT - ANN L. THAYER
ARS - ANGELINA R. SCOTT
BRG - BRENDA R. GREGORY
CAF - CHERYL A. FLOWERS
CAK - CHERYL A. KOELSCH
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLS - CARA L. STRICKLER
CLW - CHARISSA L. WINTERS
CM - CHARLIE MARTIN
CMS - CRYSTAL M. STEPHENS
CPD - CHAD P. DAVIS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAS - DALLAS A. SULLIVAN
DD - DIANE M. DENNIS
DDE - DEBRA D. ELLIOTT
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON
DLB - DAVID L. BUMGARNER
DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH
DMV - DAVID M. VANDEVELDE
DP - DEANNA L. PIERSON
DR - DEANNA ROBERTS
DRB - DOUG R. BARNETT
DSM - DAVID S. MOSSOR
DST - DENNIS S. TEPE
ECL - ERIC C. LAWSON
EED - EMILY E. DECKER
ELW - ERICA L. WEBB
HV - HEMA VILASAGAR
JAL - JOHN A. LENT
JJG - JOHN J. GREUEY
JKT - JANE K. THOMPSON
JLS - JANICE L. SCHIMMEL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
LKN - LINDA K. NEDEFF
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MAH - MICALYN A. HARRIS
MDA - MICHAEL D. ALBERTSON
MDC - MICHAEL D. COCHRAN
MES - MARY E. SCHILLING
MKZ - MARILYN K. ZUMBRO
MLR - MARY L. ROCHOTTE
MLS - MICHAEL L. SCHIMMEL
MMB - MAREN M. BEERY
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
OGT - OKEY G. TUCKER
PAS - PATRICK A. STREET
RB - ROBERT BUCHANAN
RDC - REBECCA D. CUTLIP
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RP - RICHARD PETTY
RWC - ROD W. CAMPBELL
SCM - SUSAN C. MOELLENDICK
SH - SHAUNA M. HYDE
SK - SANDRA KEENER
SLM - STEPHANIE L. MOSSBURG
SLP - SHERI L. PFALZGRAF
TD - TIMOTHY DYSERT
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER
VKL - VICKY K. LAUER

KEMRON Environmental Services, Inc.
List of Valid Qualifiers
February 17, 2005

These are KEMRON's standard report qualifiers:

B	Present in the method blank
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified as a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
FL	Free liquid
I	Semi-quantitative result, out of instrument calibration range
J	Present below normal reporting limit
L	Sample reporting limits elevated due to matrix interference
N	Tentatively Identified Compound (TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NS	Not spiked
P	Concentration >40% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out out of control limits
X	Exceeds regulatory limit
Z	Can not be resolved from isomer.***
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
*	Surrogate or spike compound out of range

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

AFCEE Qualifiers

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitiation is an estimation.
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The anlyte was positively identified by the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

Versar

KEMRON

CHAIN OF CUSTODY RECORD

№ 992753

PROJECT NO.	PROJECT NAME
11244.1244001	VOLUNTARY LAND MANAGEMENT FAMILY SHOOTING CENTER

SAMPLERS: *(Signature)*

(Printed)

PARAMETERS: 6010B Pb ONLY

INDUSTRIAL HYGIENE SAMPLE Y / N

REMARKS: 7 DAY T.A.T. LEVEL 4 REPORT + QC

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	6010B Pb ONLY							REMARKS
TR20-6	02/01/05	08:30	SO	G	TR20-6	1	X							
TR18-1	02/04/05	07:35	SO	G	TR18-1	1	X							
RR6-2	02/01/05	09:25	SO	G	RR6-2	1	X							
PR4-2	01/28/05	07:35	SO	G	PR4-2	1	X							

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	02/09/05 11:55	FEDEX			
(Printed) Matthew Eyer		(Printed)	(Printed)		(Printed)

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
		Brenda Gregory	2/10/05 0953	CALL GARY TORF W/ QUESTIONS 303-452-5700. EXT 414
(Printed)		(Printed) Brenda Greogry		

C/C sealed / intact
Cooler temp !!
Se intact

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

KEMRON Environmental Services
Internal Chain of Custody Report
Login: L0502227
Account: VERSAR-CO-454
Project: 454-TORF
Samples: 4
Due Date: 17-FEB-2005

Samplenum	Container ID	Products
L0502227-01	114827	PB DIG-ICP ICP-PE ICP-IRIS ICP-MS

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN			10-FEB-2005 12:57	BRG	
2	PREP	W1	DIG	10-FEB-2005 15:41	REK	BRG
3	STORE	DIG	A1	11-FEB-2005 14:13	BRG	REK

Samplenum	Container ID	Products
L0502227-02	114828	DIG-ICP ICP-IRIS ICP-MS ICP-PE PB

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN			10-FEB-2005 12:57	BRG	
2	PREP	W1	DIG	10-FEB-2005 15:41	REK	BRG
3	STORE	DIG	A1	11-FEB-2005 14:13	BRG	REK

Samplenum	Container ID	Products
L0502227-03	114829	DIG-ICP ICP-IRIS ICP-MS ICP-PE PB

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN			10-FEB-2005 12:57	BRG	
2	PREP	W1	DIG	10-FEB-2005 15:41	REK	BRG
3	STORE	DIG	A1	11-FEB-2005 14:13	BRG	REK

Samplenum	Container ID	Products
L0502227-04	114830	DIG-ICP ICP-IRIS ICP-MS ICP-PE PB

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN			10-FEB-2005 12:57	BRG	
2	PREP	W1	DIG	10-FEB-2005 15:41	REK	BRG
3	STORE	DIG	A1	11-FEB-2005 14:13	BRG	REK

LABORATORY REPORT

L0502227

02/17/05 12:18

Submitted By

KEMRON Environmental Services
156 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Versar Denver, Colorado
11990 Grant St.
Suite 500
Northglenn, CO 80233
Attention: Garv Torf

Account Number: 467-CO-454
Work ID: VOLUNTARY LAND MANAGEMENT

Sample Summary

Client ID	Lab ID	Date Collected	Date Received
TR20-6	L0502227-01	01-FEB-05	10-FEB-05
TR18-1	L0502227-02	04-FEB-05	10-FEB-05
RR6-2	L0502227-03	01-FEB-05	10-FEB-05
PR4-2	L0502227-04	28-JAN-05	10-FEB-05

KEMRON ENVIRONMENTAL SERVICES

Report Number: L0502227

Report Date : February 17, 2005

Sample Number: L0502227-01
Client ID: TR20-6
Matrix: Soil
Workgroup Number: WG182949
Collect Date: 01-FEB-05
Sample Tag: 01

Prep Method: 3050B
Analytical Method: 6010B
Analyst: JYH
Dilution: 1
Units: mg/kg
Percent Solid: 100

Instrument: IRIS-ICP
Prep Date: 02/11/2005 06:00
Cal Date: 02/16/2005 10:27
Run Date: 02/16/2005 13:38
File ID: IR.021605.133800

Analyte	CAS. Number	Result	Qual	RL	MDL
Lead, Total	7439-92-1	147		4.81	0.481

Sample Number: L0502227-02
Client ID: TR18-1
Matrix: Soil
Workgroup Number: WG182949
Collect Date: 04-FEB-05
Sample Tag: 01

Prep Method: 3050B
Analytical Method: 6010B
Analyst: JYH
Dilution: 1
Units: mg/kg
Percent Solid: 100

Instrument: IRIS-ICP
Prep Date: 02/11/2005 06:00
Cal Date: 02/16/2005 10:27
Run Date: 02/16/2005 13:44
File ID: IR.021605.134400

Analyte	CAS. Number	Result	Qual	RL	MDL
Lead, Total	7439-92-1	21.2		4.81	0.481

Sample Number: L0502227-03
Client ID: RR6-2
Matrix: Soil
Workgroup Number: WG182949
Collect Date: 01-FEB-05
Sample Tag: 01

Prep Method: 3050B
Analytical Method: 6010B
Analyst: JYH
Dilution: 1
Units: mg/kg
Percent Solid: 100

Instrument: IRIS-ICP
Prep Date: 02/11/2005 06:00
Cal Date: 02/16/2005 10:27
Run Date: 02/16/2005 13:49
File ID: IR.021605.134900

Analyte	CAS. Number	Result	Qual	RL	MDL
Lead, Total	7439-92-1	2700		4.76	0.476

Sample Number: L0502227-04
Client ID: PR4-2
Matrix: Soil
Workgroup Number: WG182949
Collect Date: 28-JAN-05
Sample Tag: DL01

Prep Method: 3050B
Analytical Method: 6010B
Analyst: JYH
Dilution: 50
Units: mg/kg
Percent Solid: 100

Instrument: IRIS-ICP
Prep Date: 02/11/2005 06:00
Cal Date: 02/16/2005 10:27
Run Date: 02/16/2005 18:19
File ID: IR.021605.181900

Analyte	CAS. Number	Result	Qual	RL	MDL
Lead, Total	7439-92-1	23700		243	24.3

Versar

CHAIN OF CUSTODY RECORD

№ 992954

PROJECT NO.	PROJECT NAME
111244 1244 001	Voluntary Lead Management - Family Shooting Center

SAMPLERS: *(Signature)* — (Printed) Matthew Eyer

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	XRF	REMARKS
PR1 - Surface	2/04/05	7:30	Soil		Pistol Range	1	X	
PR1 - 1'		7:40				1	X	
PR2 - Surface		7:50				1		Hold
PR2 - 1'		8:00				1	X	
PR2 - 2'		8:10				1	X	
PR3 - Surface		8:30				1		Hold
PR3 - 1'		8:40				1	X	
PR3 - 2'		8:50				1	X	
PR4 - Surface		9:00				1		Hold
PR5 - Surface		9:20				1	X	
PR5 - 1'	"	9:50	"		"	1	X	

PARAMETERS

INDUSTRIAL HYGIENE SAMPLE — Y / N

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
(Printed) Matthew Eyer	2/04/05 2:00	(Printed) S.E. Weedy	01/27/05 (Printed)		(Printed)
Relinquished by: *(Signature)*	**Date / Time**	**Received for Laboratory by:** *(Signature)*	**Date / Time**	**Remarks**	
(Printed)		(Printed)			

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Versar

CHAIN OF CUSTODY RECORD

No. 992983

PROJECT NO.	PROJECT NAME	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y / N
11244.1111.001	Voluntary Lead Management - Family Shooting Center		

SAMPLERS: *(Signature)* _____ (Printed) Matthew Fry

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	XRF	REMARKS
PR5-0'	3/12/96	7:00	Soil		Pistol Range	1	X	
PR4-1'		7:20			Pistol Range	1	X	
PR4-2'		7:25			Pistol Range	1	X	
RR1-Surface		7:55			Rifle Range	1		Hold
RR1-1'		8:00				1	X	
RR1-2'		8:10				1	X	
RR2-Surface		8:15				1		Hold
RR2-1'		8:25				1	X	
RR2-2'		8:35				1	X	
RR3-Surface		8:45				1		Hold
RR3-1'		9:05				1	X	
RR3-2'		9:30				1	X	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
(Printed)	3/12/96 12:20	(Printed) M. Burkett	(Printed)		(Printed)

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
(Printed)		(Printed)		

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Versar

CHAIN OF CUSTODY RECORD

№ 992967

PROJECT NO.	PROJECT NAME	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y / N
[illegible]	Voluntary Lead Management - Family Shooting Center		

SAMPLERS: *(Signature)* [signature] (Printed) Matthew Eger

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	XRF	REMARKS
RR4 - Surface	2/13/96	9:40	Soil		Rifle Range	1		Held
RR4 - 1'	"	10:00	"		"	1	X	
RR4 - 2'		10:20				1	X	
RR5 - Surface		10:30				1	X	
RR5 - 1'		11:35				1	X	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	2/13/96 12:32	[signature]			
(Printed)		(Printed)	(Printed)		(Printed)
Relinquished by: *(Signature)*	**Date / Time**	**Received for Laboratory by:** *(Signature)*	**Date / Time**	**Remarks**	
(Printed)		(Printed)			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink)

Versar

CHAIN OF CUSTODY RECORD

№ 992965

PROJECT NO.	PROJECT NAME	INDUSTRIAL HYGIENE SAMPLE Y / N
11244.1244.001	Voluntary Lead Management - Family Shooting Cent	

SAMPLERS: *(Signature)* — (Printed)

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	XRF	PARAMETERS	REMARKS
RR6-Surface	10/16/96	9:15	Soil		Right Range	1	X		
RR6-1'	"	9:20	"		"	1	X		
RR6-2'	"	9:25	"		"	1			Hold
RR7-Surface	"	9:30	"		"	1	X		
RR7-1'	"	9:35	"		"	1	X		
RR7-2'	"	9:40	"		"	1			Hold
RR8-Surface	"	9:42	"		"	1	X		
RR8-1'	"	9:50	"		"	1	X		
RR9-1'	"	9:55	"		"	1			Hold
RR9-Surface	"	10:00	"		"	1	X		
RR9-1'	"	10:05	"		"	1	X		

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Matthew Gray (Printed)	10/16/96 11:00	MM Burleson (Printed)	(Printed)		(Printed)
Relinquished by: *(Signature)*	**Date / Time**	**Received for Laboratory by:** *(Signature)*	**Date / Time**	**Remarks**	
(Printed)		(Printed)			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Versar

CHAIN OF CUSTODY RECORD

№ 992956

PROJECT NO.	PROJECT NAME	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y / N
111244.1244.001	Voluntary Lead Management - Family Shooting Center		

SAMPLERS: (Signature) _____ (Printed) _____

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	XRF	REMARKS
TR 5 - 6"	02/01/12	7:30	Soil		TRef Range	1	X	
TR 5 - 1'		7:35				1	X	
TR10 - 6"		7:40				1	X	
TR10 - 1'		7:45				1	X	
TR15 - 6"		8:00				1	X	
TR 15 - 1'		8:10				1	X	
TR 20 - 6"		8:30				1	X	
TR20 - 1'		8:45				1	X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(Printed)		(Printed)	(Printed)		(Printed)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
(Printed)		(Printed)		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Versar

CHAIN OF CUSTODY RECORD

№ 992958

PROJECT NO.	PROJECT NAME
[illegible] 201	Voluntary Lead Management - Family Shooting Center

SAMPLERS: *(Signature)* [signature] (Printed) [illegible]

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y / N	REMARKS
TR4-6"	[illegible]	[illegible]	Soil		Trap Range TR6	1	X		
TR4-1'	"	[illegible]	"		"	1	X		
TR3-6"	"	[illegible]	"		"	1	X		
TR3-1'	"	[illegible]	"		"	1	X		
TR2-6"	"	[illegible]	"		"	1	X		
TR2-1'	"	[illegible]	"		"	1	X		
TR1-6"	"	[illegible]	"		" TR5	1	X		
TR1-1'	"	[illegible]	"		"	1	X		
TR6-6'	"	[illegible]	"		"	1	X		
TR6-1'	"	[illegible]	"		" TR11-1	1	X		
TR11-6'	"	[illegible]	"		"	1	X		
TR11-1'	"	[illegible]	"		"	1	X		

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	[illegible]	[signature]			
(Printed) [illegible]		(Printed) Jo Blair	(Printed)		(Printed)

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
(Printed)		(Printed)		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Versar

CHAIN OF CUSTODY RECORD

№ 992968

PROJECT NO.	PROJECT NAME
1112N1214.021	Volunteer Land Management - Family Shooting Center

SAMPLERS: *(Signature)* (Printed) Matthew Ence

PARAMETERS — INDUSTRIAL HYGIENE SAMPLE: Y / N

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	XRF	REMARKS
TR16-6"	03/04/05	9:00	Soil		Trap Range	1	X	
TR16-1'		9:10				1	X	
TR17-6"		9:20				1	X	
TR17-1'		9:25				1	X	
TR12-6"		9:50				1	X	
TR12-1'		9:55				1	X	
TR7-6'		10:05				1	X	
TR7-1'		10:10				1	X	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
(Printed) Matthew Ence	03/04/05 11:20	(Printed) Jo. Blair	(Printed)		(Printed)
Relinquished by: *(Signature)*	**Date / Time**	**Received for Laboratory by:** *(Signature)*	**Date / Time**	**Remarks**	
(Printed)		(Printed)			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

№ 992959

CHAIN OF CUSTODY RECORD

PROJECT NAME: Voluntary Land Management - Family Shooting Center

SAMPLERS: (Signature) _____ (Printed) Matthew Eyer

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	PARAMETERS: XRF	REMARKS
TR1K -6"	02/10/05	7:20	Soil		T100 Range	1	X	
TR1K -1'		7:35				1	X	
TR 14 -6"		7:45				1	X	
TR 14 -1'		7:50				1	X	
TR 14 -6"		8:00				1	X	
TR 14 -1'		8:05				1	X	
TR 9 -6"		8:15				1	X	
TR 9 -1'		8:20				1	X	
TR 13 -6"		8:30				1	X	
TR 13 -1'		8:35				1	X	
TR 8 -6"		8:45				1	X	
TR 8 -1'		8:50				1	X	

INDUSTRIAL HYGIENE SAMPLE: Y / N

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(Printed) Matthew Eyer	2-14-05 8:30	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	**Date / Time**	**Received for Laboratory by: (Signature)**	**Date / Time**	**Remarks**	
(Printed)		(Printed)			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Versar

CHAIN OF CUSTODY RECORD

№ 992957

PROJECT NO.	PROJECT NAME	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y / N
111244 12-11.00	Voluntary Lead Management - Family Shooting Center		

SAMPLERS: *(Signature)* (Printed)

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	XRF								REMARKS
TR21-36"	10/10/95	9:00	Soil		Trap Range	1	X								
TR21-1'		9:10			Trap Range	1	X								
RR5-2'		10:00			Rifle Range	1	X								
RR6-2' Dup		10:30			Rifle Range	1	X								

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
(Printed)		(Printed)	(Printed)		(Printed)
Relinquished by: *(Signature)*	**Date / Time**	**Received for Laboratory by:** *(Signature)*	**Date / Time**	**Remarks**	
(Printed)		(Printed)			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Versar

CHAIN OF CUSTODY RECORD

№ 992961

PROJECT NO.	PROJECT NAME	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y / N
11244.244.001	Voluntary Lead Management - Hazard Creek Family Shooting Center		

SAMPLERS: *(Signature)* (Printed)

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	VOA								REMARKS
RAS-25						1	X								
RAS-23						1	X								
RAS-2E						1									Hold
RAS-24						1									Hold
RAS-Swell						1	X								
RAS-1						1	X								
RAS-1D						1									Hold
RAS-3						1									Hold
RAS-2E						1	X								
RAS-3						1	X								
RAS-2E						1									Hold
RAS-4						1									Hold

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
(Printed)		(Printed)	(Printed)		(Printed)

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
(Printed)		(Printed)		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Versar

CHAIN OF CUSTODY RECORD

№ 992962

PROJECT NO.	PROJECT NAME
1112441244 001	Volunteer Land Management Family Shooting Center

SAMPLERS: *(Signature)*	(Printed)
[illegible]	Matthew Eyre

FIELD SAMPLE NUMBER	DATE	TIME	MATRIX	METH.	STATION LOCATION	NO. OF CONTAINERS	XRF								REMARKS
PA6-2s	[illegible]	[illegible]	Soil		PA6 Pistol Range	1	X								
PA6-3	|	9:46	|		PA6 Pistol Range	1	X								
PA6-3s	|	9:50	|		PA6 Pistol Range	1									Hold
PA6-4	|	9:55	|		PA6 Pistol Range	1									Hold
TR21-1'	|	[illegible]	|		TR21 Trap Range	1	X								
	|		|			1	X								
TR22-6"	|	10:15	|		TR22 Trap Range	1	X								
TR22-1'	|	10:20	|		TR22 Trap Range	1	X								
TR23-6"	|	10:25	|		TR23 Trap Range	1	X								
TR23-1'	|	10:30	|		TR23 Trap Range	1	X								
TR21-1'	|	10:[illegible]	|		TR21 Trap Range	1									Hold

INDUSTRIAL HYGIENE SAMPLE: Y / N

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[illegible]	[illegible] / 14:00	M Bradburn			
(Printed) Matthew Eyre		(Printed)	(Printed)		(Printed)

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
(Printed)		(Printed)		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Appendix C
Treatability Study

Versar Environmental Services

TREATABILITY REPORT

(Cherry Creek State Park)

T. E. Moody, Ph.D
Metals Treatment Technologies, LLC
March 1, 2005

1.0 OBJECTIVE

The objective of this report is to present the findings of a laboratory treatability study conducted by MT^2 designed to determine RCRA leachable lead (Pb) concentrations from Pb contaminated material. Determinations of leachable Pb will be made from untreated and ECOBOND® Pb treated material.

2.0 PRE-TREATMENT TCLP ANALYSIS

Samples of Pb contaminated soils were delivered to MT^2 sample receiving by Matt Eyer of Versar Environmental. The samples were delivered in plastic zip-lock bags. The soil types ranged from sandy loam to clay loam and were consistent in particle size. The samples were delivered to the MT^2 treatability laboratory January 27, 2005 through February 11, 2005. Before analysis, samples were placed onto a clean plastic sheet and mixed thoroughly to ensure homogeneity. XRF analysis was done in-house using a Niton model XL 700 multi-element XRF spectrophotometer. The analysis time for each reading ranged from 30 to 60 seconds. Per contract agreement, ten soils were selected for untreated TCLP analysis. The Pb contaminated soil material was then tested for hazardous Pb by using EPA's SW-846 Method No. 1311 "Toxicity Characteristic Leaching Procedure" (TCLP). The TCLP extraction fluids were then filtered and analyzed by atomic absorption spectrophotometry. The atomic absorption Pb analysis was implemented in-house using a Perkin-Elmer model 5100. Pb standards approved by NIST were used to construct the atomic absorption standard curve. All pH measurements were made after calibrating the pH meter with NIST pH standard solutions. The results of the subsequent analysis are presented in Table 1.

Table 1. PRE-TREATMENT TCLP RESULTS

MT^2 Test #	Field I.D.	Soil pH	XRF Pb mg/kg	TCLP Pb mg/l
14-12-1	TR13-6"	8.0	1068	64
14-12-2	TR15-6"	8.0	558	67
14-12-3	TR20-6"	7.9	382	2.4
14-12-4	TR18-1'	8.4	356	0.6
14-12-5	TR7-6"	8.9	355	1.3
14-12-6	PR4-2'	8.5	3240	412
14-12-7	PR5-2'	8.6	2380	370
14-12-8	RR3-2'	9.0	1440	82
14-12-9	RR5-1'	9.1	>25,000	1045
14-12-11	RR5-2'	8.9	9960	898
14-12-10	RR6-S	9.1	6910	550
RCRA Criteria				5.0

The 18 hour TCLP extraction values indicate that 8 of the 11 samples are hazardous according to RCRA classification. Of this group, 3 soils were selected for ECOBOND® Pb stabilization treatment and subsequent TCLP testing. Samples PR5-2, RR5-2 and TR15-6" were selected to be representative of the Pb contamination across the site. Table 2 lists characterization and chemical properties for the selected soils.

Table 2. SAMPLE DESCRIPTION and CHARACTERIZATION

Field I.D.	Soil pH	Description	XRF Pb mg/kg	TCLP Pb mg/l
PR5-2ft	8.6	Loamy, with sand, uniform particle size, brown in color	~2380	370
RR5-2ft	8.9	Loamy, with clay, large clumps, brownish in color	~9960	898
TR15-6 inches	8.0	Loamy, with clay, uniform particle size, dark grayish color	~558	67

The untreated TCLP Pb extraction values of 370 mg/l, 898 mg/l and 67 mg/l for samples PR5-2, RR5-2 and TR15-6, respectively, indicate that the selected soils are above the RCRA criteria for leachable Pb (the TCLP analyses are greater than 5.0 mg/l) and hazardous by RCRA standards. Therefore, these selected samples were treated with ECOBOND® Pb to eliminate RCRA leachable Pb.

3.0 TREATMENT STUDIES

Samples PR5-2, RR5-2 and TR15-6" were implemented for treatment studies. Each ECOBOND® Pb treatment was implemented using 100g of the contaminated material. No irregularities were discovered in the treated soil material. ECOBOND® Pb formula was applied and mixed with the sample in increasing amounts. After weighing measurements and complete mixing with the treatment materials, the sample and treatment materials were allowed to incubate and stabilize overnight. The following day, sub-samples were taken and extracted for Pb implementing EPA's SW-846 Method No. 1311 "Toxicity Characteristic Leaching Procedure" (TCLP). The TCLP extraction fluids were then filtered and analyzed by atomic absorption spectrophotometry. The atomic absorption Pb analysis was implemented in-house using a Perkin-Elmer model 5100. Pb standards approved by NIST were used to construct the atomic absorption standard curve. All pH measurements were made after calibrating the pH meter with NIST pH standard solutions. The results of the ECOBOND® Pb treatment tests are presented in Table 3.

Table 3. ECOBOND® Pb TCLP Treatment Data

MT² Test #	Field I.D.	Sample Treatment Weight	ECOBOND® Pb Addition	TCLP Pb mg/l
14-12-7	PR5-2'	NA	untreated	370
14-13-4	PR5-2'	100g	1.0%	6.6
14-13-5	PR5-2'	100g	2.0%	**1.1**
14-13-6	PR5-2'	100g	3.0%	**2.1**
14-12-11	RR5-2'	NA	untreated	898
14-13-7	RR5-2'	100g	1.0%	582
14-13-8	RR5-2'	100g	2.0%	315
14-13-9	RR5-2'	100g	3.0%	55
14-13-13	RR5-2'	100g	4.0%	**3.4**

14-13-14	RR5-2'	100g	4.5%	**3.9**
14-12-2	TR15-6"	NA	untreated	67
14-13-10	TR15-6"	100g	1.0%	**3.8**
14-13-11	TR15-6"	100g	2.0%	**0.2**
14-13-12	TR15-6"	100g	3.0%	**0.1**
RCRA Criteria				5.0

4.0 CONCLUSIONS

The addition of ECOBOND® Pb to samples PR5-2, RR5-2 and TR15-6" to stabilize and reduce leachable Pb to below the hazardous RCRA level was successful. A trend is observed for treating samples with ECOBOND® Pb. The higher the untreated TCLP value, the more ECOBOND® Pb is required to reduce the RCRA leachable Pb. The increasing treatment % is proportionally effective relative to untreated TCLP Pb and also ensures treatment efficacy. The highest untreated TCLP Pb value of 898 mg/l is exhibited by sample RR5-2'. By no coincidence, this sample also required the highest percentage of ECOBOND® Pb (4.0%) to reduce the RCRA leachable Pb. Sample PR5-2 exhibited the next highest untreated TCLP Pb value of 370 mg/l Pb. The 1% addition of ECOBOND® Pb was not sufficient to reduce the leachable Pb to below the non-hazardous level of 5 mg/l. The 2% addition of ECOBOND® Pb reduced the leachable Pb to 1.1 mg/l, which is well below the 5 mg/l limit. Sample TR15-6" exhibited the lowest untreated TCLP Pb value of 67 mg/l. As to be expected, the leachable Pb from this sample was reduced to the non-hazardous level of 3.8 mg/l by the addition of 1% ECOBOND® Pb.

5.0 RECOMMENDATION

MT^2 recommends a 4.0% addition of ECOBOND® Pb to the RR5-2' soil for stabilizing the Pb to below the RCRA non-hazardous level. For the other two selected soils, PR5-2 and TR15-6", MT^2 recommends a 2% addition of ECOBOND® Pb.

Appendix D
Photo Log

1) Soil Sample Screening

2) Soil Sample Screening

3) GPS Unit

4) Sample Location Marking

5) Sample Chain of Custody


6) Depth of Bullet Penetration

7) Treated Soil Containment Berm

8) HDPE Underlying Treated Soil Stockpile

9) Dumping of Excavated Soil on HDPE

10) Excavator Removing Soil from Pistol Range Berm

11) Excavator Removing Soil from Pistol Range Berm

12) Clean Soil Dumping

13) Front End Loader Removing Soil from Pistol Range Berm

14) ECOBOND Management

15) Application of Clean Soils to Berm

16) Compaction of Clean Soil on Pistol Range Berm

17) Clean Soil on First Berm, Rifle Range

18) Rifle Range from Final Berm

19) Pistol Range from Final Berm

20) Stockpile removal

Appendix E
Field Forms

Versar INC.

Tailgate Safety Meeting Form

Date: 05/16/05	Time: 6:30 Am	Project Number: 11244.1244.002
Site Location: Family Shooting Center - Cherry Creek State Park		
Task: Lead Impacted Soil Removal & Disposal		

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D		
Chemical Hazards: Lead		
Physical Hazards: Machinery		
Special Equipment: None		
Emergency Procedures: As Detailed In Health & Safety Plan		
Other:		
Hospital: Centennial Healthcare Plaza	Phone: 303-699-3000	Ambulance Phone: 911

ATTENDEES

Printed Name:	Signature:	Company:
Ralph Smith	Ralph Smith	MT²
Joe Burkett	Joe Burkett	MT²

Meeting Conducted By: Matthew Eyer

Signature: Matth Eyer

Versar INC.

Tailgate Safety Meeting Form

Date: 05/17/05	Time: 7:30am	Project Number: 11244. 1244.002
Site Location: Family Shooting Center		
Task: Lead Impacted Soil Removal & Disposal		

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment:	Level D
Chemical Hazards:	Lead
Physical Hazards:	Machinery
Special Equipment:	None
Emergency Procedures:	As Detailed in HSS Plan
Other:	

Hospital:	Phone:	Ambulance Phone:
Centennial Healthcare Plaza	303 690 3000	911

ATTENDEES

Printed Name:	Signature:	Company:
JOE BURDETT	Joe Burdett	MT²
RALPH SMITH	Ralph Smith	MT²

Meeting Conducted By: _____

Signature: _____

Versar INC.

Tailgate Safety Meeting Form

Date: 05/18/05	Time: 7AM	Project Number: 11244.1244.002
Site Location: Family Shooting Center		
Task: Lead Impacted Soil Removal & Disposal		

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment:	Level D
Chemical Hazards:	Lead
Physical Hazards:	Machinery
Special Equipment:	None
Emergency Procedures:	As Detailed in HSS Plan
Other:	

Hospital: Centennial Healthcare Plaza	Phone: 303 699 3000	Ambulance Phone: 911

ATTENDEES

Printed Name:	Signature:	Company:
JOE BURNETT	Joe Burnett	MT2
RALPH SMITH	Ralph Smith	MT2

Meeting Conducted By: _____

Signature: _____

Versar INC.

Tailgate Safety Meeting Form

Date: 05/19/05	Time: 7AM	Project Number: 111294.1294.002
Site Location: Family Shooting Center		
Task: Lead Impacted Soil Removal & Disposal		

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D		
Chemical Hazards: Lead		
Physical Hazards: Machinery		
Special Equipment: None		
Emergency Procedures: As Detailed in HSS Plan		
Other:		
Hospital: Centennial Healthcare Area	Phone: 303 699 3000	Ambulance Phone: 911

ATTENDEES

Printed Name:	Signature:	Company:
JOE BURNETT	Joe Burnett	MT²
RALPH SMITH	Ralph Smith	MT²

Meeting Conducted By: _____

Signature: _____