

May 18, 2006

Mr. Dale Myers Coordinator for the VCP Northwest Regional Office Department of Ecology 3190 160th Ave. SE Bellevue, WA 98008-7775

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DEPT OF ECOLOGY

Re: **Battery Casing Excavation Completion Report**

Upper Hudson Street Site 4815 15th Avenue SW Seattle, WA TCPID NW1585 SESCO Project # 3424

Dear Mr. Myers:

SESCO Group (SESCO) is pleased to provide you with the attached Battery Casing Excavation Completion Report that details the source removal of battery casing material located at 4815 15th Avenue SW in Seattle, WA 98106 (the Site). Note that the attached report distinguishes between the McFarland property and the City's street right-of-way.

Excavation activities were conducted on the Site from April 10 through April 13, 2006 during which approximately 197.94 tons of battery casing material was removed and disposed at the Chemical Waste Management of the Northwest Inc. disposal facility. Confirmation samples were collected from the perimeter and base of the excavation to demonstrate that the excavation was effective and contaminant levels in the remaining soils on the McFarland property are minimal (below MTCA Method A non-industrial, or unrestricted-land-use, cleanup levels).

By removing the battery casing and collecting confirmatory soil samples, SESCO has successfully eliminated a potential future risk to humans and the environment on the McFarland property at this Site. Some exceedances for lead and arsenic still remain within the right-of-way. Based on results from this removal effort, on behalf of the site owner, we conclude that the remedial objectives have been met and the risks associated with the former area containing battery casings appears to be mitigated. SESCO requests that you provide us with a status letter regarding our remedial efforts at the Site after your review of the enclosed report.

Please call me at 317-347-9590 if you have any questions regarding this matter.

Respectfully Submitted,

Kerry Behnke

Environmental Scientist

David G. Coles M.S., L.G.

Geochemist

DAVID G. COLES

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BATTERY CASING EXCAVATION COMPLETION REPORT

Upper Hudson Street Site 4815 SW 15th Avenue Seattle, WA 46038 TCPID NW1585

Date Issued: May 18, 2006 SESCO GROUP Project Number 3424

Prepared By

Kerry Behnke



EXECUTIVE SUMMARY

On behalf of Mr. John M. McFarland, SESCO Group (SESCO) has completed a source removal of battery casings found during the previous excavation of cement kiln dust (CKD) located at 4815 15th Avenue, Seattle, Washington.

Excavation activities were conducted on the Site from April 10 through April 13, 2006. Demolition Man Inc., under the supervision of SESCO, removed 197.94 tons of soil containing battery casings from the Site. The excavated soil was transported by Enviro Con & Trucking Inc. to the Chemical Waste Management of the Northwest Inc. (CWMNW) disposal facility in Arlington, Oregon.

Ten (10) confirmation samples were taken in the excavation pit sidewalls and pit bottom and submitted to North Creek Analytical Laboratory, Inc. for lead analysis. Two of the samples were further analyzed for arsenic and pH.

The confirmation demonstrate that the excavation was effective because the contaminant levels in the remaining soils on the McFarland property are below Model Toxics Control Act Method A Cleanup levels for soils. However, several confirmatory samples located within the City's Edmunds Street right-of-way are above industrial (one sample) and non-industrial (two other samples) MTCA Method A cleanup levels. By removing the battery casing materials and collecting confirmatory soil samples, it appears that SESCO has successfully eliminated a potential future risk to humans or the environment on McFarland's portion of this Site.

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1.0 INTRODUCTION

SESCO Group (SESCO) has completed remedial activities under the Washington State Department of Ecology's (DOE) Voluntary Cleanup Program (VCP) for the Site located at 4815 15th Avenue SW in Seattle, Washington. The Remedial Action Report for this Site was acknowledged by the DOE on February 6, 2006 and given a TCP identification number of NW 1585. The following Battery Excavation Completion Report provides a summary and documentation of the battery casing excavation and confirmation sampling as referenced in a letter to DOE dated April 6, 2006 citing a March 27, 2006 onsite meeting.

1.1 SITE BACKGROUND

1.1.1 SITE LOCATION AND HISTORY

This Battery Casing Excavation Completion Report has been prepared by SESCO Group on behalf of Mr. John M. McFarland for the property located at 4815 15th Avenue SW, Seattle, Washington.

The site contained broken battery casings in soil containing lead. This material was discovered during the previous excavation of stockpiled cement kiln dust (CKD). The source of the battery casings is unknown although anecdotal information indicates that is was a common fill material used in this area. The battery casings were assumed to have been washed free of lead and sulfuric acid before being used for fill. The material as this site appeared to be the residual from a former stockpile because the areal extent and thickness were limited.

2.0 REMEDIAL ACTION

2.1 PROJECT DESCRIPTION SUMMARY

On April 10, 2006, representatives of SESCO met at the Site with Demolition Man Inc. to begin the removal of the battery casing material from the Site. Excavation activities were conducted on the Site on April 10, 2006 through April 13, 2006. Excavated battery casing material was transported on April 12, 2006 and completed on April 13, 2006. A photographic log of excavation activities is included in **Appendix A** of this report. Demolition Man Inc., under the supervision of SESCO, removed approximately 197.94 tons of battery casing material from an area north of the former CKD stockpile as identified in **Figure 1**. Approximately 18 inches of native soil and fill directly under the stockpile also was removed. All soil was transported to the CWMNW disposal facility located in Arlington, OR. A complete list of the waste manifests and disposal tickets is included in **Appendix B**.

Confirmation soil samples were taken by the SESCO representative in the excavation pit sidewalls, bottom of the pit, and backfill material. Ten (10) soil samples were submitted to North Creek Analytical Laboratory, Inc. for lead analysis, two (2) of which were further analyzed for arsenic and pH. These analytes were selected based on the material excavated. The two samples analyzed for arsenic and pH were done as confirmatory samples from the previous CKD stockpile removal pit. The results from these samples will be submitted as part of an additional report documenting the CKD removal. Lead and arsenic were analyzed using USEPA Method SW-6020 and pH was analyzed using USEPA Method SW-150.1/9040A.

2.2 REMEDIATION SYSTEM DETAILS

2.2.1 EQUIPMENT USED

A track-mounted excavator was used during excavation activities and CWMNW's dump trucks were utilized for transportation of the battery casing material to the CWMNW disposal facility in Arlington, OR. The removal activities included over-excavation to approximately 18 inches below the bottom of the visually recognizable battery casing material into native soil (or fill material) to assure the complete removal of the battery casing material. The SESCO representative was able to verify the complete removal of the battery casing material via visual inspection.

2.2.2 DECONTAMINATION PROCEDURES

Trucks containing excavated battery casing material were lined with 6 mil plastic sheeting and covered for transport. The stockpiled battery-casing material was covered until it was loaded for transport to ensure that erosion and runoff was minimized.

SESCO personnel utilized a two (2) inch stainless steel hand auger to collect the confirmatory soil samples. Decontamination of the hand auger involved an Alconox wash followed by a water rinse. A new pair of disposable latex gloves was used for each sample collected.

2.3 CONFIRMATION SAMPLING

2.3.1 DATA COLLECTION AND EVALUATION

Excavation Pit

The excavation activities were completed at the Site on April 10, 2006 and removal activities completed on April 13, 2006. Groundwater was not encountered during excavation activities. On April 10, 2006, Ms. Kerry Behnke, the onsite SESCO representative, conducted confirmatory soil sampling from the excavated area. A total of five (5) pit-bottom samples were collected (BC-1/TP-16, BC-2, BC-3, BC-4/TP-17, and BC-7) and a total of five (5) sidewall samples were collected (BC-5, BC-6, BC-8, BC-9 and BC-10). **Figure 1** shows the location of each confirmation soil boring.

Sample locations were determined to be at approximately fifteen to twenty-foot intervals along the sidewalls. Soil samples were collected with a hand auger from a horizon no more than 6-inches into the base or sidewall of the excavation. Soil samples were placed into laboratory supplied containers and immediately packed on ice in a cooler. Chain-of-custody forms accompanied the samples to the laboratory and are attached in **Appendix C**.

2.3.2 SAMPLE ANALYSIS RESULTS

The following laboratory was used to analyze the samples collected during the confirmation-sampling project:

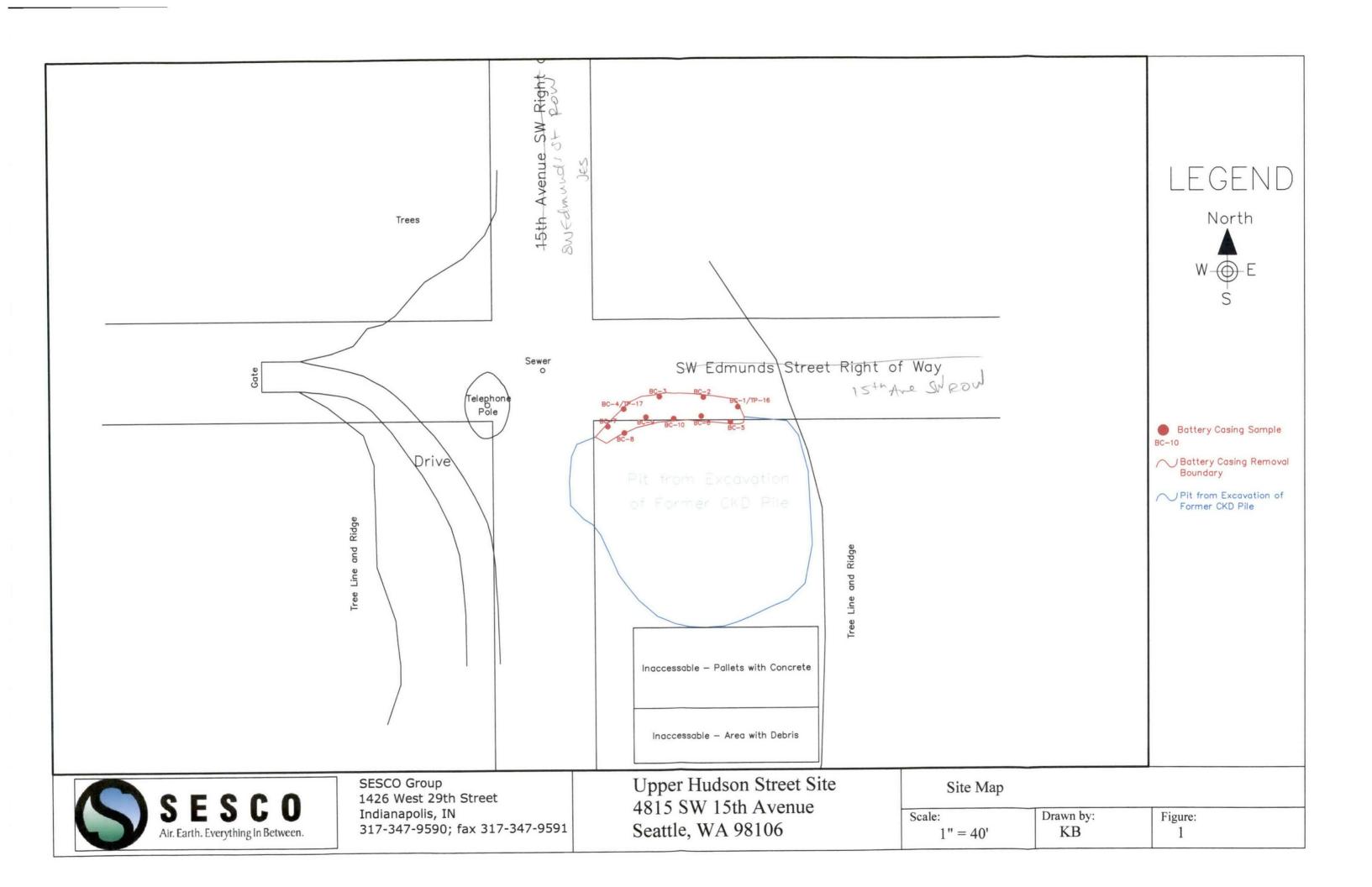
North Creek Analytical 9405 SW Nimbus Avenue, Beaverton, OR 97008 (503) 906-9200

Results from the laboratory analysis were compared to the Model Toxics Control Act Method A Cleanup levels for soils. Laboratory results for soil show that lead concentrations were above industrial levels in sample BC-1/TP-16, and above non-industrial levels in BC-9 and BC-10. The BC-1/TP-16 sample also was slightly above the MTCA Method A level for arsenic. However, these areas are located in the SW Edmunds Street right-of-way. Excavation of the battery-casing waste material originating on-site was continued off site into the right-of-way to complete the removal of all the visual material. Confirmatory samples were taken in the right-of way but any contamination in this portion of the Site is not the responsibility of the property owner. The laboratory analytical data and chain-of-custody forms are included as **Appendix C**. The confirmation soil sample results are included in **Table 1**.

3.0 CONCLUSIONS

Confirmation samples collected from the perimeter and base of the excavation demonstrate that the excavation and removal of battery casing material was effective and contaminant levels in the remaining soils are minimal on the McFarland property. Some residual lead and arsenic still remains in the soils within the right-of-way which are above MTCA Method A cleanup levels.

Figures



Tables

Table 1 – Battery Casing Excavation Confirmation Soil Sampling Data Upper Hudson Street Site 4815 15th Avenue SW Seattle, Washington

Constituents USEPA SW 6020 Results in mg/Kg	BC-1/ TP-16	BC-2	BC-3	BC-4/ TP-17	BC-5	BC-6	BC-7	BC-8	BC-9	BC-10/ D*	Non Industrial	Industrial
Arsenic	25.7	NA	NA	4.52	NA	NA	NA	NA	NA	NA	20	20
Lead	1220	68.3	18.4	5.07	43.9	25.3	4.93	91.6	476	495/306*	250	1,000
pН	7.15	NA	NA	6.91	NA	NA	NA	NA	NA	NA	-	

^{* -} Duplicate sample from BC-10 is shown as BC-10D with corresponding result in table.

NA - Not Analyzed

Sample concentrations are Red if concentration exceeds Industrial levels.

Sample concentrations are Blue if concentration exceeds Non-Industrial levels.

Results shown are compared to Model Toxics Control Act Method A Cleanup levels for soils.

Appendix A

Site Photographs



Photograph #1 – View looking northeast showing battery casing material area.



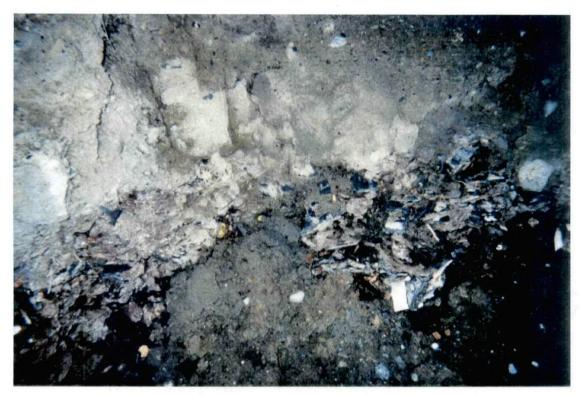
Photograph #2 – View of battery casing material found on the north side of the former CKD excavation pit.



Photograph #3 – View of battery casing material found during previous excavation of CKD.



Photograph #4 – View during excavation of battery casing material and wood debris.



Photograph #5 – View of battery casing material.



Photograph #6 – View during excavation of battery casing material showing excavator.



Photograph #7 – View during excavation of battery casing material. Clean soil being stockpiled to use as fill.



Photograph #8 – View showing stockpile of excavated battery casing material.



Photograph #9 – View during excavation of battery casing material.



Photograph #10 – Further removal of material.



 $Photograph \ \#11-Further\ removal.$



Photograph #12 – Trucks used to haul excavated battery casing material.



 $Photograph\ \#13-Trucks\ used\ to\ haul\ excavated\ battery\ casing\ material.$



Photograph #14 – View after battery casing material was excavated and the overburden was used to reduce erosion from the excavation area.



Photograph #15 – Showing removal of battery casing material is close to completed. Excavator is on the final pile of excavated battery casing material that was stockpiled during initial finding of battery casing material.



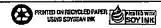
Photograph #16 – Close up picture showing same as Photograph #14.

Appendix B

Uniform Hazardous Waste Manifests



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	econ	ant a large quantity generator, I certify the comically practicable and that I have sele- re threat to human health and the environs	cted the practicable method	d of treatment, storage, or	disposal cur	rentiv av	rallable to me w	thich minin	izes the present and
	the b	best waste management method that is avail	able to me and that I can all	ford.		, , , ,			
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Month Day Year



Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Generator's US EPA ID No. **UNIFORM HAZARDOUS** Information in the shaded areas is not required by Federal law. 2. Page 1 **WASTE MANIFEST** οfi 3. Generator's Name and Malling Address A. State Manifest Document Number UPPER HUDSON STREET SITE 4815 15TH AVE SW B. State Generators ID SEATTLE WA 98106 4. Generator's Phone (206 938-443 6. US EPA ID Number O. State Transporter's D 5. Transporter 1 Company Name D. Transporters Phonego 1887-4205 .9.8.8.5.1.6.8 ENVIRO CON & TRUCKING INC. 7. Transporter 2 Company Name US EPA ID Number E. State Transporter's ID 8. F. Transporters Phone G, State Facility's ID 9. Designated Facility Name and Site Address 10. US EPA JD Number The TANK CWMNW, INC. 17629 CEDAR SPRINGS LANE H. Facility's Phone: (541)454-2643 **ARLINGTON OR 97812-9709** D.R.D.Ø.8.9.4.5.2 12. Containers Waste No. 11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) Type No. HM E a. RO, HAZARDOUS WASTE, SOLID, N. O. S, 9, NA3077, III, D008 Ε (LÉAD), D008 .3000 R b. 0 C. d. K. Handling Codes for Wastes Listed Above J. Additional Descriptions for Materials Listed Above VC2819 LEAD AUTO BATTERY CASINGS BROKEN IN SOIL, (RO=10LBS) SUAA, 64650P, 32,33 15. Special Handling Instructions and Additional Information a. VC2819 ERG# 171 Emergency Contact#(800)424-9300(WMI Contract) 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford, Printed/Typed Name KERPY BEHNRE ANTH TO SIGN FOR JOHN M MCHARLAND 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Year 306 ٤K Emir 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Printed/Typed Name Signature Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Signature Printed/Typed Name

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EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete

; F. E.	or type. (Form designed for use on elite (12	Smitch) typewriter	341/2	/	Form i	Approved, OMB No.	2050-0039.
	NIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA	ID No.	Manifest Document No.	Τ΄	Information	in the shaded areas ed by Federal law.
4815 SEAT	rerator's Name and Mailing Address R. HUDSON STREET SITE 15TH AVE SW TLE WA 98106 rerator's Phone (206 938-443				A. State M	anifest Docume	11: "
5. Tran	rsporter 1 Company Name RO CON & TRUCKING INC.	6.	US EPA ID N D 9 8 8 5		C. State T	ransporter's ID	0)887-4206
	nsporter 2 Company Name	8. I	US EPA ID N	lumber,	E: State Ti	ansporter's ID	
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HM		· · · · · · · · · · · · · · · · · · ·		er) No.		Total Uni uantity Wt/V	
a. X	RQ, HAZARDOUS WASTE, SOI (LEAD), D008	.ID, N. U. S, 9, NA3	1077, 111,	0 0 1	DT La	2000 P	D008
b.					<u> </u>		
C.		-	·.				
d.							
J. Add a. VC.	itional Descriptions for Materials Liste 2819 LEAD AUTO BATTERY 3=10LBS)	d Above CASINGS BROKEN	IN SOIL,				Sies Listed Above 50P, 34,10
15. Sp a. VC	ecial Handling Instructions and Additi 2819 ERG# 171 Emergency Contact#(MI Contrac	t)		,	<u> </u>
prop	NERATOR'S CERTIFICATION: I hereby declar ser shipping name and are classified, packed, ording to applicable international and national	e that the contents of this con marked, and labeled, and are	signment are fully at	nd accurately des	cribed above by transport by high	way _	
If I eco tutu	am a large quantity generator, I certify that nomically practicable and that I have selec- tre threat to human health and the environm best waste management method that is available.	I have a program in place led the practicable method of lent; OR, If I am a small qua	of treatment, storeg antity generator, I h	e, or disposal cu	ırrentiv available	to me which min	imizes the present and
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20. Fa	cility Owner or Operator: Certification	of receipt of hazardous		ed by this mani	fest except as	noted in Item 1	
Pri	inted/Typed Name	' 1	Signature	L \ /=	-b ^	· ·	Month Day Year

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Appendix C

Chain-of-Custody Documentation and Laboratory Analysis



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907.563.9200 fax 907.563.9210

26 April 2006

Kerry Ehnke SESCO Goup 5704 N Montana Ave. Portland, OR/USA 97217

RE: M&arland

Enclosed are theresults of analyses for samples received by the laboratory on 64/13/06 10:50. If you have any questions concerning this report, please fee free to contact me

Sincerely,

Kortland Or

PM



Spokane

Portland

Bend

Anchorage

11720 North Creek Pkwy N, Suite 400, Bithell, WA \$011-8244 425.420.9200 fax 425.420.9210 11922 E. 1st Avenue, Spokane Valley, WA \$9206-5302 509.924.9290 fax 509.924.9290 9405 SW Nimbus Avenue, Baverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 2000 W International Airport Road, Suite A-10, Anchorage, AK \$9502-1119 907.563.9200 fax 907.563.9210

SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727

Project: McFarland Project Number: 3424

Project Manager: Kerry Banke

Reported: 04/26/06 16:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1A	BPD0334-01	Soil	04/10/06 07:30	04/13/06 10:50
S-6A	BPD0334-02	Soil	04/10/06 07:45	04/13/06 10:50
BC-1/TP-16	BPD0334-03	Soil	04/10/06 11:05	04/13/06 10:50
BC-2	BPD0334-04	Soil	04/10/06 11:15	04/13/06 10:50
BC-3	BPD0334-05	Soil	04/10/06 11:25	04/13/06 10:50
BC-4/TP-17	BPD0334-06	Soil	04/10/06 11:30	04/13/06 10:50
BC-5	BPD0334-07	Soil	04/10/06 11:35	04/13/06 10:50
BC-6	BPD0334-08	Soil	04/10/06 11:40	04/13/06 10:50
BC-7	BPD0334-09	Soil	04/10/06 11:50	04/13/06 10:50
BC-8	BPD0334-10	Soil	04/10/06 12:00	04/13/06 10:50
BC-9	BPD0334-11	Soil	04/10/06 13:05	04/13/06 10:50
BC-10	BPD0334-12	Soil	04/10/06 13:10	04/13/06 10:50
BC-10 D	BPD0334-13	Soil	04/10/06 13:10	04/13/06 10:50
TP-I	BPD0334-14	Soil	04/10/06 13:45	04/13/06 10:50
TP-2	BPD0334-15	Soil	04/10/06 14:00	04/13/06 10:50
TP-4	BPD0334-16	Soil	04/10/06 14:30	04/13/06 10:50
TP-5	BPD0334-17	Soil	04/10/06 14:45	04/13/06 10:50
TP-3	BPD0334-18	Soil	04/11/06 09:00	04/13/06 10:50
TP-6	BPD0334-19	Soil	04/11/06 09:30	04/13/06 10:50
TP-7	BPD0334-20	Soil	04/11/06 09:45	04/13/06 10:50
TP-8	BPD0334-21	Soil	04/11/06 10:00	04/13/06 10:50
TP-9	BPD0334-22	Soil	04/11/06 10:15	04/13/06 10:50
TP-10	BPD0334-23	Soil	04/11/06 10:30	04/13/06 10:50
TP-10 D	BPD0334-24	Soil	04/11/06 10:30	04/13/06 10:50
TP-11	BPD0334-25	Soil	04/11/06 11:00	04/13/06 10:50
TP-12	BPD0334-26	Soil	04/11/06 11:15	04/13/06 10:50
TP-13	BPD0334-27	Soil	04/11/06 11:30	04/13/06 10:50
TP-14	BPD0334-28	Soil	04/11/06 12:00	04/13/06 10:50
TP-15	BPD0334-29	Soil	04/11/06 12:05	04/13/06 10:50

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Anchorage

SESCO Group

5704 N.Montana Ave. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-A	BPD0334-30	Soil	04/12/06 14:10	04/13/06 10:50
S-B	BPD0334-31	Soil	04/12/06 14:15	04/13/06 10:50
S-C	BPD0334-32	Soil	04/12/06 14:20	04/13/06 10:50
S-D	BPD0334-33	Soil	04/12/06 14:25	04/13/06 10:50

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Bend

Anchorage

SESCO Group

5704 N.Montana Ave. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Total Metals by EPA 600/7000 Series Methods North Creek Analytical - Bothell

	Reporting							
Analyte Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1A (BPD0334-01) Sil Sampled: 4/10/06 07:30	Readid: 0	4/13/06 10:50						
Arsenic 3.16	0.618	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
S-6A (BPD0334-02) Sil Sampled: 0/10/06 07:45	Resaid: 0	4/13/06 10:50		_				
Lead 8.87	0.610	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
BC-1/TP-16 (BPD0334-03) Soil Sampled: 0/10/06	1:05 Rec	eived: 4/13/0	6 1050					
Arsenic 25.7	0.715	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
BC-1/TP-16 (BPD0334-03RE1) Soil Sampled: 0/1	0/06 1105	Reived: 04	13/06 10:	:50				
Lead 1220	7.15	mg/kg dry	10	6D18026	04/18/06	04/19/06	EPA 6020	
BC-2 (BPD034-04) Soil Sampled: 0/10/06 1115	Reived: (04/13/06 10:50)		_			
Lead 68.3	0.635	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
BC-3 (BPD834-05) Soil Sampled: 0/10/06 1125	Reived: ()4/13/0 <u>6</u> 10:50)					
Lead 18.4	0.630	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	•
BC-4/TP-17 (BPD0334-06) Soil Sampled: 0/40/06	1:30 Rec	eived: Ø/13/0	6 1050					
Arsenic 4.52	0.530	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
Lead 5.07	0.530	n	II	II	Ħ	11	. 11	
BC-5 (BPD#34-07) Soil Sampled: 4/10/06 1135	Reived: (04/13/06 10:50)					
Lead 43.9	0.723	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
BC-6 (BPD034-08) Soil Sampled: 0/10/06 1140	Reived:)4/13/06 10:50) <u></u>					<u> </u>
Lead 25.3	0.616	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	

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503.906.9200 fax 503.906.9210
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
2000 W International Airport Road, Suite A-10, Anchorage, AK 9502-1119
907.563.9200 fax 907.563.9210

Anchorage

SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Total Metals by EPA 600/7000 Series Methods North Creek Analytical - Bothell

					Reporting							
Analyte			•	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BC-7 (BPD 8 34-09) Soil	Sample	ed: 0 /10/06	1150	Reived:	04/13/06 10:5	i0					
Lead				4.93	0.694	mg/kg dry	. 1	6D18026	04/18/06	04/19/06	EPA 6020	
BC-8_(BPD 8 34-10) Soil	Sample	ed: 4/10/06	1200	Reived:	04/13/06 10:5	i0					
Lead				91.6	0.697	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
BC-9 (BPD834-11RE1)	Soil	Saluda 04/1	0/06 13:0	05 Rec	ei de 04/13/0	£10:50					
Lead				476	3.74	mg/kg dry	5	6D18026	04/18/06	04/19/06	EPA 6020	
BC-10	(BD0334-12RE1) Soil	Stapled: 04	/10/06 13	:10 Reci	wed: 0/413/0	6 10:50				-	
Lead				495	2.98	mg/kg dry	5	6D18026	04/18/06	04/19/06	EPA 6020	
BC-10	DBPD0334-13RI	E1) Soil	Sampled:	0/10/06	1310 I	Reived: 04/13	/06 10:50					
Lead				306	2.96	mg/kg dry	5	6D18026	04/18/06	04/19/06	EPA 6020	
TP-1 (BD0334-14) Sil	Sample	ed: 0 /10/06	13:45	Recaid: 0	04/13/06 10:5	0					
Arsenic				3.03	0.586	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
Lead				3.44	0.586	11	n	"	11	II	"	
TP-2 (BID0334-15) Sil	Sample	ed: 4/10/06	14:00	Recaid: 0	4/13/06 10:5	0					
Arsenic				5.23	0.630	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
Lead				4.72	0.630	II	11	"	11	n	11	
TP-4 (B D 0334-16) Sil	Sample	ed: 0 /10/06	14:30	Receid: 0	04/13/06 10:5	0		<u> </u>			
Arsenic		_	_	4.37	0.534	mg/kg dry	1	6D18026	04/18/06	. 04/19/06	EPA 6020	
Lead	•		•	12.2	0.534	11	n	,	**	"	n ·	

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SESCO Group · 5704 N.Montana Ave. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Total Metals by EPA 600/7000 Series Methods North Creek Analytical - Bothell

Analyte Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP-5 (BD0334-17) Sil Sampled: 0/10/06 14:45	Recaid: 0	4/13/06 10:50	-					
Arsenic 3.49	0.656	mg/kg dry	I	6D18026	04/18/06	04/19/06	EPA 6020	
Lead 4.67	0.656	"	"	"	11	ır	u	
TP-3 (BD0334-18) Sil Sampled: 0/11/06 09:00	Receid: 0	4/13/06 10:50						
Arsenic 9.31	0.497	mg/kg dry	I	6D18026	04/18/06	04/19/06	EPA 6020	
Lead 41.3	0.497	•	H	tt.	11	11	11	
TP-6 (BB0334-19) Sil Sampled: 0/11/06 09:30	Recaid: 0	4/13/06 10:50						
Arsenic 3.45	0.428	mg/kg dry	1	6D18026	04/18/06	04/19/06	EPA 6020	
Lead 4.86	0.428	"	"	11	11	11	11	
TP-7 (BD0334-20) 8il Sampled: 0/11/06 09:45	Receid: 0	4/13/06 10:50						
Arsenic 4.54	0.607	mg/kg dry	I	6D18026	04/18/06	04/19/06	EPA 6020	
Lead 4.68	0.607	n	H	11	11	11	11	
TP-8 (BD0334-21) Sil Sampled: 0/11/06 10:00	Recaid: 0	4/13/06 10:50						·
Arsenic 2.51	0.638	mg/kg dry	Ī	6D18028	04/18/06	04/19/06	EPA 6020	
Lead 2.95	0.638	II	It	11	11	11	11	
TP-9 (BD0334-22) Sil Sampled: 0/11/06 10:15	Reoxid: 0	4/13/06 10:50						
Arsenic 5.04	0.626	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead 5.85	0.626	4	11	II	"	19	n .	
TP-10 BPD0334-23) Soil Sampled: 04/11/06 10:30	Recived:	0/L3/06 10:50	0	•				
Arsenic 4.97	0.611	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead 23.6	0.611	n	11	11	"	H	11	

North Geek Analytical -Bothell

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SESCO Group

5704 N.Montana Ave.

Portland, ORUSA 9727

Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Total Metals by EPA 600/7000 Series Methods North Creek Analytical - Bothell

		Reporting					-		· ·
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP-10 D(BPD0334-24) Soil Sampled:	0/11/06 10B	0 Reive	1: 04/13/06 10	:50				<u> </u>	
Arsenic	4.72	0.613	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	•
Lead	7.21	0.613	n	17	. 41	n	ŧı	**	
TP-11 BPD0334-25) Soil Sampled: 04/	11/06 11:00	Recived:	0/13/06 10:5	0					
Arsenic	2.89	0.602	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead	2.56	0.602	H	. 11	11	H	II.	**	·
TP-12 BPD0334-26) Soil Sampled: 04/	Reeived:	0/13/06 10:5	0						
Arsenic	3.84	0.650	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead	35.2	0.650		11	н	n	11	H	
TP-13 BPD0334-27) Soil Sampled: 04/	11/06 11:30	Reeived:	0/13/06 10:5	0			•		
Arsenic	33.0	0.476	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
TP-13 BPD0334-27RE1) Soil Supled: 0/41/06 11:30 Recived: 0/13/06 1050									
Lead	242	0.952	mg/kg dry	. 2	6D18028	04/18/06	04/19/06	EPA 6020	
TP-14 BPD0334-28) Soil Sampled: 04/	0/L3/06 10:5	0							
Arsenic	4.40	0.549	mg/kg drý	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead	19.4	0.549	n	17	11	n	11	. "	
TP-15 BPD0334-29) Soil Sampled: 04/	11/06 12:05	Reeived:	0/13/06 10:5	0	*				
Arsenic	4.12	0.489	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead	12.2	0.489	"	"	ŧı	. ".	tr.	~ "	

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SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Reported:

Project Manager: Kerry Banke

04/26/06 16:34

Total Metals by EPA 600/7000 Series Methods North Creek Analytical - Bothell

Analyte		<u> </u>	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-A (BP10334-30) Soil	ampled:	0/12/06	1410	Rouni: 0	/13/06 10:50						
Arsenic			4.93	0.593	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead			14.0	0.593	tt	"	11	*1	11	н	
S-B (BPD034-31) Soil	Sampled:	0/12/06	1415	Reived: 04	/13/06 10:50						
Arsenic			4.20	0.620	mg/kg dry	. 1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead			12.4	0.620	11	**	IF	41	11	н	
S-C (BPD334-32) Soil	amfiled:	0/12/06	1420	Read: 6	/13/06 10:50			_			
Arsenic			6.77	0.597	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead			28.1	0.597	11	. "	. 11	11	II		
S-D (BP10334-33) Soil	amßled:	9/12/06	1425	Reuni: 6	/13/06 10:50						
Arsenic			3.54	0.498	mg/kg dry	1	6D18028	04/18/06	04/19/06	EPA 6020	
Lead			7.20	0.498	IF	**	If	Ц	u	н	

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5704 N.Montana Av. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

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Conventional Chemistry Brameters by APIA/EPA Methods North Creek Analytical - Bothell

	Report	•					35.1.1	N T .
Analyte Re-	sult Lii ————	nit Units	Dilution	Batch	Prepared	Analyzed	Method 	Notes
BC-1/TP-16 (BPD0334-03) Soil Sampled: 0/4	0/06 1:05 I	Received: 0/13/06	1050					
pH 7	.15	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
BC-4/TP-17 (BPD0334-06) Soil Sampled: 0/4	0/06 1:30 I	Received: 0/13/06	1050		_			
pH 6	.91	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-1 (BD0334-14) Sil Sampled: 0/10/06 13	:45 Recon	id: 04/13/06 10:50						
pH 7	.82	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-2 (BD0334-15) Sil Sampled: 0/10/06 14	:00 Recei	d: 04/13/06 10:50					•	
pH 7	.95	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-4 (BD0334-16) Sil Sampled: 0/10/06 14	:30 Reco	id: 04/13/06 10:50						
pH 7	.78	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	-
TP-5 (BD0334-17) Sil Sampled: 0/10/06 14	:45 Reco	d: 04/13/06 10:50						
pH 7	.54	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-3 (BB0334-18) Sil Sampled: 0/11/06 09	:00 Reco	id: 04/13/06 10:50						
pH 9	.95	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-6 (BP0334-19) Sil Sampled: 0/11/06 09	:30 Recon	d: 04/13/06 10:50		<u> </u>				
pH 7	.75	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-7 (BID0334-20) Sil Sampled: 0/11/06 09	:45 Recei	id: 04/13/06 10:50	•					
pH	.09	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	

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SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727

Project: McFarland Project Number: 3424

Project Manager: Kerry Banke

Reported: 04/26/06 16:34

Conventional Chemistry Brameters & APIA/EPA Methods North Creek Analytical - Bothell

			Reporting						•	J
Analyte	-	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP-8 (BID0334-21)	Sil Sampled:	<u>9/11/06 10:00</u>	Receid: 0	4/13/06 10:50						
pН		6.59		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-9 (BD0334-22)	Sil Sampled:	9 /11/06 10:15	Recaid: 0	4/13/06 10:50)					
pН		7.29		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-10 BPD0334-2	3) Soil Sampled:	04/11/06 10:30	Reeived:	0/L3/06 10:5	50			_		
pH		8.07		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-10 DBPD0334	-24) Soil Sample	d: 9 /11/06 1030	Reive	d: 04/13/06 10	0:50			 	· · · · · · · · · · · · · · · · · · ·	
pH		8.02		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-11 BPD0334-2	5) Soil Sampled:	04/11/06 11:00	Reeived:	0/13/06 10:5	50					
pН		6.60		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-12 BPD0334-2	6) Soil Sampled:	04/11/06 11:15	Recived:	0/L3/06 10:5	50					
pH		6.79		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-13 BPD0334-2	7) Soil Sampled:	04/11/06 11:30	Reeived:	0/13/06 10:5	60					
pH		7.09	•	pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-14 BPD0334-2	8) Soil Sampled:	04/11/06 12:00	Recived:	0/L3/06 10:5	<u> </u>					
· pH		7.63		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
TP-15 BPD0334-29	9) Soil Sampled:	04/11/06 12:05	Recived:	0/413/06 10:5	50					
pН	•	- · 8.20		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	

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SESCO Group

5704 N.Montana Av. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

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Conventional Chemistry Brameters by APIA/EPA Methods North Creek Analytical - Bothell

Anal	yte	-	_	Result	Reporting Limi	£	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-A	(BP10334-30) Soil	ambled:	0/12/06	1410	Roud:	0/13/06 10:50						
pН				6.89		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
<u>S-B</u>	(BPD034-31) Soil	Sampled:	0/12/06	1415	Reived:	04/13/06_10:50		·				
pН				6.88		pH Units	1	6D18071	04/18/06	04/18/06	EPA 9045C	
<u>s-c</u>	(BPD334-32) Soil	ambled:	0/12/06	1420	Reced:	4/13/06 10:50						
pН				6.92		pH Units	1	6D18072	04/18/06	04/18/06	EPA 9045C	
S-D	(BPD334-33) Soil	amβled:	0/12/0 6	1425	Reced:	9/13/06 10:50						
pН				7.34		pH Units	1	6D18072	04/18/06	04/18/06	EPA 9045C	

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907.563.9200 fax 907.563.9210 Anchorage

SESCO Group 5704 N.Montana Av. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424 Project Manager: Kerry Banke

Reported: 04/26/06 16:34

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

ł		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1A (BPD0334-01) Sil Sampl	ed: 9/10/06 07:3 0	Recaid: 04	4/13/06 10:50						
Dry Weigh	80.9	1.00	%	1	6D18046	04/18/06	04/19/06	BSOPSPL003R08	
S-6A (BPD0334-02) Sil Sampl	ed: 0 /10/06 07:45	Recaid: 04	4/13/06 10:50						<u>.</u>
Dry Weigh	77.3	1.00	%	1	6D18046	04/18/06	04/19/06	BSOPSPL003R08	
BC-1/TP-16 (BPD0334-03) Soil	Sampled: 0/10/06	1:05 Rece	ived: 9 /13/0	6 1050					
Dry Weigh	69.9	1.00	%	1	6D18046	04/18/06	04/19/06	BSOPSPL003R08	
BC-2 (BPD834-04) Soil Sampl	ed: 0 /10/06 1115	Reived: 0	4/13/06 10:50	١					
Dry Weigh	78.8	1.00	%	1	6D18046	04/18/06	04/19/06	BSOPSPL003R08	
BC-3 (BPD034-05) Soil Sample	ed: 0 /10/06 1125	Reived: 0	4/13/06 10:50						
Dry Weigh	78.6	1.00	%	1	6D18046	04/18/06	04/19/06	BSOPSPL003R08	
BC-4/TP-17 (BPD0334-06) Soil	Sampled: 0/110/06	1:30 Rece	ived: 0 /13/0	6 1050					
Dry Weigh	81.3	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
BC-5 (BPD834-07) Soil Sampl	ed: 0/10/06 1135	Reived: 0	<u>4/13/06 10:50</u>					·	
Dry Weigh	74.4	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
BC-6 (BPD034-08) Soil Sampl	ed: 0 /10/06 1140	Reived: 0	4/ <u>13/</u> 06 10:50					- 	
Dry Weigh	76.6	1.00	%	. 1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
BC-7 (BPD034-09) Soil Sampl	ed: 0 /10/06 1150	Reived: 0	4/13/06 10:50	ı			•	<u>.</u>	
Dry Weigh	75.1	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	_

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SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727

Project: McFarland Project Number: 3424

Project Manager: Kerry Banke

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Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte		- Dillit	Oma	Dilution	- Dateil		rinaryzou	14101104	Holes
BC-8 (BPD034-10) Soil Sampled:	9/10/06 1200	Reived: 04	/13/06 10:	50					
Dry Weigh	67.0	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
BC-9 (BPD034-11) Soil Sampled:	0/10/06 1305	Reived: 04	/13/06 10:	50					
Dry Weigh	64.9	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
BC-10 (BD0334-12) Sdi Salmi:	04/10/06 13:10	Receide	04/13/040	:50					
Dry Weigh	74.3	1.00	%	. 1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
BC-10 DBPD0334-13) Soil Sample	d: 0/10/06 3:10	Received	: 0/13/06	1050	•	_			
Dry Weigh	70.5	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-1 (BD0334-14) Sil Sampled:	0/10/06 13:45	Receid: 04	/13/06 10::	50					
Dry Weigh	83.7	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-2 (BD0334-15) Sil Sampled:	0/10/06 14:00	Resaid: 04	/13/06_10::	50					
Dry Weigh	77.0	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-4 (BD0334-16) Sil Sampled:	Ø/10/06 14:30	Resaid: 04	/13/06_10::	50					
Dry Weigh	82.8	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-5 (BD0334-17) Sil Sampled:	@ /10/06 14:45	Receid: 04	/13/06 10::	50					
Dry Weigh	82.8	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-3 (BD0334-18) Sil Sampled:	6 /11/06 09:00	Recaid: 04	/13/06 10::	50	_				
Dry Weigh	89.1	1.00	%	1	6D18047	04/18/06 -	04/19/06	BSOPSPL003R08	

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SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727

Project: McFarland Project Number: 3424

Project Manager: Kerry Banke

Reported: 04/26/06 16:34

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

		Reporting							i
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP-6 (BD0334-19) Sil Sampled: 0/1	11/06 09:30	Reoxid: 0	4/13/06 10:50)					
Dry Weigh	70.3	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-7 (BP0334-20) Sil Sampled: 0/1	11/06 09:45	Recaid: 0	4/13/06 10:50)					
Dry Weigh	80.0	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-8 (BD0334-21) Sil Sampled: 0/1	11/06 10:00	Receid: 0	<u>4/13/06 10:50</u>) •					
Dry Weigh	78.4	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-9 (BD0334-22) Sil Sampled: 0/1	1/06 10:15	Receid: 0	4/13/06 10:50)			_		
Dry Weigh	81.5	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-10 BPD0334-23) Soil Sampled: 04	/11/06 10:30	Recived:	0/13/06 10:5	50					
Dry Weigh	84.4	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-10 DBPD0334-24) Soil Sampled:	9/11/06 1030	Reived	1: 04/13/06 10	0:50					
Dry Weigh	81.5	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-11 BPD0334-25) Soil Sampled: 04	/11/06 11:00	Recived:	0/13/06 10:5	50					
Dry Weigh	79.9	1.00	%	1	6D18047	04/18/06	04/19/06	BSOPSPL003R08	
TP-12 BPD0334-26) Soil Sampled: 04	/11/06 11:15	Recived:	0/13/06 10:5	50					
Dry Weigh	79.3	1.00	%	1	6D18048	04/18/06	04/19/06	BSOPSPL003R08	
TP-13 BPD0334-27) Soil Sampled: 04	/11/06 11:30	Recived:	0/13/06 10:5	0					
Dry Weigh	99.1	1.00	- % .	1.	6D18048	04/18/06	04/19/06	BSOPSPL003R08	

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Portland

SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP-14 BPD0334-28) Soil Sampled: 04	/11/06 12:00	Recived:	0/13/06 10:5	50					
Dry Weigh	82.8	1.00	% .	1	6D18048	04/18/06	04/19/06	BSOPSPL003R08	
TP-15 BPD0334-29) Soil Sampled: 04	/11/06 1 <u>2:05</u>	Recived:	0/13/06 10:5	50					
Dry Weigh	82.5	1.00	%	1	6D18048	04/18/06	04/19/06	BSOPSPL003R08	
S-A (BP10334-30) Soil amfiled: 0/12	/06 1410	Road: 0	/13/06 10:50						
Dry Weigh	80.3	1.00	%	1	6D18048	04/18/06	04/19/06	BSOPSPL003R08	
S-B (BPD#34-31) Soil Sampled: 4/12	/06 1415	Reived: 04	/13/06 10:50						
Dry Weigh	78.3	1.00	%	1	6D18048	04/18/06	04/19/06	BSOPSPL003R08	
S-C (BPI0334-32) Soil amfiled: 0/12	2/06 142 <u>0</u>	Round: 0	/13/06 10:50				_		
Dry Weigh	69.8	1.00	%	1	6D18048	04/18/06	04/19/06	BSOPSPL003R08	
S-D (BPD334-33) Soil ambled: 0/12	2/06 1425	Reced: 0	/13/06 10:50				-		
Dry Weigh	76.1	1.00	%	I	6D18048	04/18/06	04/19/06	BSOPSPL003R08	

North Geek Analytical -Bothell

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SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Total Metals by EPA 600/7000 Series Methods - Qulity Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch D18026 : Pepared G/18/06	Ving	IPA 3050B								
Blank (6D18026-BLK1)										
Arsenic	ND	0.500	mg/kg wet							
Lead	ND	0.500	11							
LCS (6D8026-BS1)										
Arsenic	40.5	0.500	mg/kg wet	40.0		101	80-120			
Lead	40.0	0.500	"	40.0		100	80-120			
Duplicate (D18026-DUP1)					Source:	BB0334-	01			
Arsenic	3.30	0.618	mg/kg dry		3.16			4.33	30	
Lead	6.09	0.618	II .		6,35			4.18	30	
Matrix Sike (6D8026-MS1)					Source:	BB0334-	01			
Arsenic	48.9	0.618	mg/kg dry	49.4	3.16	92.6	57-125			
Lead	54.3	0.618	н	49.4	6.35	97.1	29-166			
Post Sjke (D18026-PS1)					Source:	B D 0334-	01			,
Arsenic	0.106		ug/ml	0.100	0.00512	101	75-125			
Lead	0.106		11	0.100	0.0103	95.7	7 5-125			
Batch D18028: Pepared 6/18/06	Ving	IPA 3050B				_				
Blank (6D18028-BLK1)								_		
Arsenic	ND	0.500	mg/kg wet							-
Lead	ND	0.500	tı							
LCS (6D8028-BS1)										
Arsenic	41.3	0,500	mg/kg wet	40.0		103	80-120			
Lead	41.0	0.500	II	40.0		102	80-120			

North Geek Analytical -Bothell

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Spokane

Portland

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SESCO Group

5704 N.Montana Av. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Total Metals by EPA 600/7000 Series Methods - Qulity Control North Creek Analytical - Bothell

,		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
<u> </u>									· ·	

Batch D18028 : Pepared 9/18/	06 Ging	IPA 3050B						_	
Duplicate (D18028-DUP1)		,			Source:	B D 0334	-21		
Arsenic	3.26	0.638	mg/kg dry		2.51			26.0	30
Lead	3.97	0.638	ti .		2.95			29.5	30
Matrix Şike (6D\$028-MS1)					Source:	B D 0334	-21		
Arsenic	53,0	0.638	mg/kg dry	51.0	2.51	99.0	57-125		
Lead	55.6	0.638	H	51.0	2.95	103	29-166		
Post Sike (D18028-PS1)					Source:	В Ю 0334	-21		
Arsenic	0.104		ug/ml	0.100	0.00394	100	75-125		
Lead	0,101		н	0.100	0.00463	96.4	75-125		

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SESCO Group 5704 N.Montana Ave. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Conventional Chemistry Brameters & APIA/EPA Methods - Quality Conrol North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D18071: Pepared 0/18/06	Uing	Gneral Pre	paration	_			_			
Duplicate (D18071-DUP1)					Source:	B D 0334-	03			
pH	7.16		pH Units		7.15			0.140	10	
Duplicate (D18071-DUP2)					Source:	B D 0334-2	22			
pH	7.30		pH Units		7.29			0.137	10	
Batch D18072: Pepared 0/18/06	Ging	Gneral Pre	paration	·						_
Duplicate (D18072-DUP1)					Source:	B D 0334-3	32			
pH	7.05		pH Units		6.92	_		1.86	10	

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Spokane

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Anchorage

SESCO Group

5704 N.Montana Av. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported:

04/26/06 16:34

Physical Parameters by APHA/ASTM/EPA Methods - Qulity Control North Creek Analytical - Bothell

Analyte			Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D 18046:	Pepared	0 /18/06	Ving	By Weight		<u>-</u>						
Blank (6D18046-BL	.K1)											
Dry Weight			100	1.00	%							
Batch D 18047:	Pepared	6 /18/06	Ving	Dy Weight								
Blank (6D18047-BL	.K1)				ı							
Dry Weight			100	1.00	%			•				
Batch D18048 :	Pepared	6 /18/06	Ving	Dy Weight								
Blank (6D18048-BL	.K1)	-										
Dry Weight			99.6	1.00	%							

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Bend

2000 W International Airport Road, Suite A-10, Anchorage, AK **9**502-1119 907.563.9200 fax 907.563.9210 Anchorage

SESCO Group 5704 N.Montana Av. Portland, ORUSA 9727 Project: McFarland

Project Number: 3424

Project Manager: Kerry Banke

Reported: 04/26/06 16:34

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

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20332 Empire Ave, Ste F1, Bend, OR 97701-5712	541-383-9310	FAX 382-7588	
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119	907-563-9200	FAX 563-9210	

,

CHAIN OF CUSTODY REPORT

		CHAIN O												Work Order	. K	PD033	4
NCA CLIENT: SESCO REPORT TO: Kerry Be ADDRESS: 1426 W Induanapa						INVOI	CE TO:	Paul	-	TIÝ	eyr					ROUND REQUEST	
REPORT TO: Kerry DE	उद्यक	קייייצים	COM	1	ovoice to: Paul Tirrey same address								in Business Days *				
ADDRESS: 1426 W	2911 SII CE	1208					٧,					Organic & Inorganic Analyses					
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THORE. STATE	Ina.					1.0.11	DIVIDUE	PRESER	17A'	TTV/E						Hydrocarbon Analyses	
PROJECT NAME: MUFARLA	HN D		11		14	1	1	PRESER	CVA	IIVE		T	T	5	الا	J 1 1	4
PROJECT NUMBER: 3424			N	0	N	E											
SAMPLED BY: Kerny	Pohoke			-			REC	UESTE	OTHER Specify:								
SAMPLED BY: COTTY	10		-	ñ									1		* Namentonial Acquaint	tanj dan anadosi nay kaor Auto Chury.	
CLIENT SAMPLE IDENTIFICATION		PLING E/TIME	Lad	Arsmic	Ha									MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WOID
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			1	1	3	1-	\dashv	-+	-				+-	-	0		101
2 S-4A	4/10/06	7:45 AM	X	#	3									S	2		02
3 BC-1/TP-16	4/10/06	11:05 Am	X	X	X									2	2		03
· BC-2		-	X											S	2		04
s BC-3	4/10/06	11:25 Am	X											S	2		05
· BC-4/18-17			X	X	X									S	2		06
, BC-5	4/10/06	11:35 Am	X		/									S	2		07
8 BC-6	4/10/06	11:40 Am	X										1	S	2		08
· BC-7	4/10/01		X											S	2		09
10 BC-8	4/10/04		X										1,	S	2		1,0,
RELEASED BY: HUVYA	Behnke		1			DATE:	4/1	3/66		RECE	VED BY:	Kate	No	111.	1	DATE:	1/13/06
PRINT NAME: Kerry	Behnke	FIRM: SE	Sco			TIME:	l	3/66			NAME:	/400 0	N	FIR	M: NO	TIME:	105
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COC REV 09/04		•	,)		•										PA	ge of 3



COC REV 09/04

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11922 E 1st Ave, Spokane, WA 99206-5302		FAX 924-9290	
9405 SW Nimbus Ave, Beaverton, OR 97008-7145	503-906-9200	FAX 906-9210	
20332 Empire Ave, Ste F1, Bend, OR 97701-5712	541-383-9310	FAX 382-7588	
		WARE #40 0000	

2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 CHAIN OF CUSTODY REPORT Work Order #: NCACLIENT: SESCO INVOICE TO: TURNAROUND REQUEST REPORT TO: Kerry Behnke ADDRESS: 1424 & 29th St Indianapolis, IN 46203 PHONE: 317,347,9590 FAX: 317.347.9591 in Business Days • Organic & Inorganic Analyses किंगिमिल P.O. NUMBER: Petroleum Hydrocarbon Analyses PROJECT NAME: MCPARLAND PRESERVATIVE नि नि नि नि PROJECT NUMBER: 3424 REQUESTED ANALYSES OTHER SAMPLED BY: frsemic CLIENT SAMPLE SAMPLING MATRIX #OF LOCATION/ NCA 동 CONT. IDENTIFICATION DATE/TIME (W, S, O)COMMENTS WOID 1:05pm 4/10/06 1:10 pm 2 Ŝ 3 1:10 pm 15 2:00 pm <u>5</u> 16 8 4/11/06 9:00 Am 4/11/06 9:30 Am 5 4/n/06 9:45 Am RELEASED BY: YUNG BUNK Kode Hany DATE: RECEIVED BY: FIRM: NCA PRINT NAME: Kerry Behnki FIRM: SELO TIME: PRINT NAME: RELEASED BY: RECEIVED BY: DATE: PRINT NAME: FIRM: TIME: PRINT NAME: FIRM: TIME: ADDITIONAL REMARKS: TEMP



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•		CHAIN O	F C	UST	OD'	Y RE	PO	RT							Work Order (, (3PD03=	34	
NCA CLIENT: SESCO		INVO	ICE TO	D:					TURNAROUND REQUEST										
REPORT TO: Kerry Behnke						1									1	to t	Business Days *		
ADDRESS: 1426 N 79th		Ì								Organic & Inorganic Analyses									
address: 1426 W. Zgm Inclina polis, PHONE: 311.347.9590	IN 4620	OP .		i			******	-											
PHONE: 317.347.9590	FAX: 3	47.959/		!		P.O. N	UMBE			·							Hydrocarbon Analyso		
PROJECT NAME: Weterla	nq		-	<u> </u>				PKI	SERV	ATIVE	1		1 1		- L	اكا		4	
PROJECT NUMBER: 3424			N	0	N	E	<u>L</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>								
SAMPLED BY: Kury	Behnle		_	<u> </u>	REQUESTED ANALYSES										OTHER Specify: *Transpared Superare lang time standard may have short Charges.				
CLIENT SAMPLE IDENTIFICATION	1	SAMPLING DATE/TIME	Lead	Manue	Hd										MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID	
1 TP-8	411/0	6 10 Am	X	(X)	X										5	1		21	
2 TP-9	4/11/0	6 1015Am	X	X	X	<u> </u>		_		<u> </u>	_	<u> </u>			5)		22	
3 TP-10	1	1030 Am	X	X	X	<u> </u>				\perp	ļ				5	1		23	
17-10D		1030 Am	X	X	X				ļ						5	1		24	
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6 TP-18 12		IIIS Am	X	X	X						<u> </u>				S	1		26	
, TP-1413		1130AM	X	χ	X										5	1		27	
8 TP-1014		1200 pm	X	X	X						\perp				5	1		28	
, TP-15	7	1205 pm	X	X	X										5	1		29	
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RELEASED BY Kerry Belink	4/12/01	225pm		×	X	DATE	4	13	66	REC	EIVED	BY:	Tat	TH.			24 DATE:	4/13/0	
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