SITE ASSESSMENT AND REMEDIAL ACTION REPORT FOR THE PROPOSED EASTMONT JUNIOR HIGH SCHOOL EAST WENATCHEE, WASHINGTON

REVIEW DRAFT

JUNE, 2001



Prepared for:
Eastmont School District
460 Ninth Avenue NE
East Wenatchee, WA 98802

Prepared by:

Forsgren Associates, Inc. 112 Olds Station Road, Suite A Wenatchee, WA 98801 509-667-1426 Project #800-106.008

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Table of Contents

- 1.0. Introduction
- 2.0. Site Location and Background
- 3.0. Purpose and Scope of Work
- 4.0. Field and Analytical Methods
 - 4.1. Sampling and Analytical Methods
 - 4.1.1. General Orchard Area Soils
 - 4.1.2. Pesticide Mixing Area
 - 4.1.3. Pesticide Distribution Piping
 - 4.1.4. Mobile Sprayer Filling Station
 - 4.1.5. Underground Storage Tank
 - 4.2 Quality Assurance/Quality Control (QA/QC) Procedures
- 5.0. Analytical Results
- 6.0. Remediation Levels
- 7.0. Proposed Remediation Program
 - 7.1. General Orchard Area Soils
 - 7.2. Mixing Area Soils
 - 7.3. Distribution System Soils and Debris
 - 7.4. Underground Storage Tank
 - 7.5. Excavations and Backfill
 - 7.6. Impervious and Clean Topsoil Cap
 - 7.7. Site Drainage
 - 7.8. Institutional Controls
- 8.0. Disposal Requirements
 - 8.1 Contaminated Soils
 - 8.2 Contaminated Debris
- 9.0. Conclusions
- 10.0. Limitations

List of Figures

- 1. Site Location Map
- 2. Sample Location Map

List of Tables

1. Arsenic /Lead Analytical Results

SITE ASSESSMENT AND REMEDIAL ACTION REPORT FOR PROPOSED EASTMONT JUNIOR HIGH SCHOOL EAST WENATCHEE, WASHINGTON REVIEW DRAFT

1.0 Introduction

This Site Assessment/Remedial Action Report for the proposed Eastmont Junior High School Site has been completed according to Washington State Department of Ecology, Voluntary Cleanup Program (VCP) guidelines. Pertinent VCP requirements are detailed at the Program website (www.ecy.wa.gov/programs/tcp/vcp/Vcpmain.htm). VCP documentation submitted for the Eastmont Junior High School site is included as Appendix A to this report. This report describes the historical use of the site, surface soil conditions, soil sampling procedures, results of laboratory analyses, areas of soil contamination and the proposed remedial approach. The sampling and analyses were conducted in accordance with the Site Assessment Sampling and Analysis Workplan, prepared in April, 2001 (Appendix B).

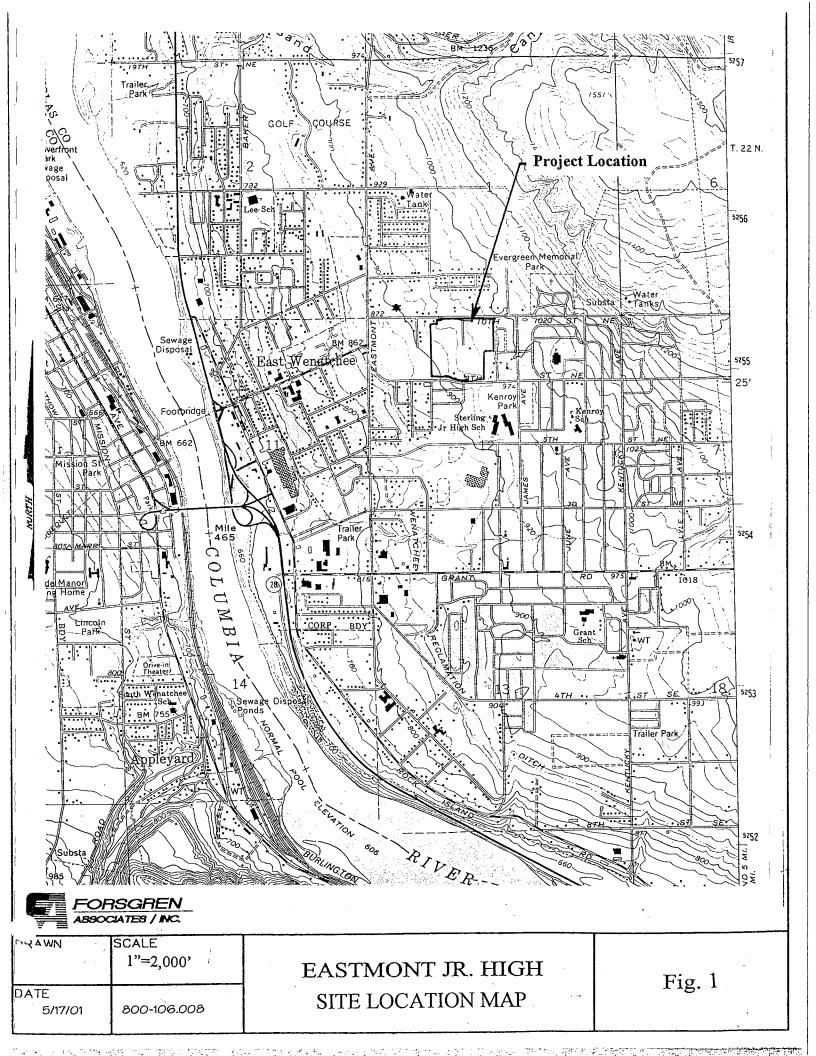
2.0 Site Location and Background

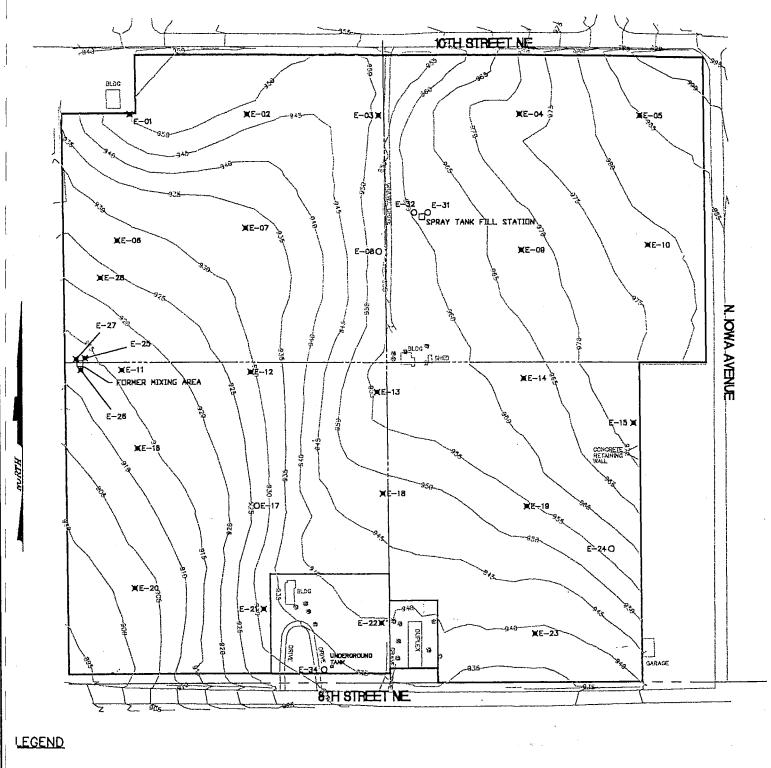
The subject property consists of an approximately 36-acre rectangular parcel of land in East Wenatchee, Washington as shown on Figure 1. The property is a former apple orchard. Apple growing and harvesting occurred on the site beginning in the early 1900s and continued through the year 2000. The trees were removed in spring, 2001. Residual concentrations of agricultural chemicals are present in the site soils.

Lead arsenate and organochlorine pesticides were common agricultural chemicals utilized in apple orchard operations in Washington State; lead arsenate was used about the turn of the century through the 1940s at which time organochlorine pesticides debuted. These chemicals were applied to the orchard that formerly occupied the subject property to control pests that affect orchard productivity. In the early years of orchard operation, these chemicals were mixed on site and reportedly distributed to all areas of the orchard through a subsurface piping system. The piping laterals were reportedly spaced about 250 feet apart.

Chemical preparation took place at a mixing facility that was located on the center-west border of the property (Figure 2). In later years mobile sprayers, consisting of a tank with sprayer mounted on a wheeled trailer were used. These mobile sprayers were filled with water at a filling station in the north central portion of the site (Figure 2).

Three residences and associated outbuildings were present on the site. These buildings were previously removed from the site.





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SURVEYED LOCATION OF SAMPLING STATION

APPROXIANTE LOCATION OF SAMPLING STATION

NOTE: SOME STAKES MARKING SAMPLING LOCATIONS WERE DESTROYED BY UNKNOWN PARTIES PRIOR TO SURVEYING.



JW WL	SCALE 1"=2 <i>00</i> '
DATE 5/17/01	800-106.008

EASTMONT JR. HIGH SOIL SAMPLING MAP

Fig. 2

An underground storage tank is present in the south center of the property (Figure 2). It appears to have been a tank for storage of vehicle fuel. There is a small concrete pad adjacent to the tank location that may have supported a pump.

3.0 Purpose and Scope of Work

This project was undertaken as a preliminary step in the process of converting the former orchard into an educational facility by the Eastmont School District No. 206. The purpose of this investigation was threefold. The first objective was to obtain historical information about the nature and extent of past agricultural chemical usage on the site during orchard operations. The second was to collect scientific data that could be used to determine the nature and extent of residual agricultural chemicals in site surface soils. The third was to use this information to plan remedial measures for the site that meet Washington State requirements for protection of human health and the environment.

4.0 Field and Analytical Methods.

Forsgren Associates' technical professionals collected 98 soil samples from 31 sampling locations at the site from April 18-20, 2001 in accordance with the sampling and analysis workplan. Based on the size of the site, a grid pattern was established across the property which divided the site into 24 areas. Sample locations were placed within the approximate center of each of these areas so that 24 (samples E01-E24) of the 31 sampling locations originated from within this grid pattern. The sampling stations were located in the field using a 200-foot long surveyor's tape. A stake with the station number was driven into the ground at the location for reference by the soil sampling personnel. The stakes were later located using surveying instruments. Figure 2 shows the sampling grid and specific sample locations.

Analytical methods were selected to determine soil concentrations for arsenic, lead and organochlorine pesticides (specifically DDT). These analytes were targeted based on their past use on site during orchard operations. Selected samples were also analyzed for organophosphorus pesticides, chlorinated herbicides and the eight Resource Conservation and Recovery Act (RCRA) metals because of their possible application during past agricultural operations in association with the targeted analytes. Three samples were tested by the Toxicity Characteristic Leaching Procedure (TCLP) to determine the leachability of arsenic and lead in site soils to give an indication of their potential mobility in the soil and determine their suitability for off-site disposal at the East Wenatchee Regional Landfill.

4.1 Sampling and Analytical Methods.

Samples were collected by advancing a hand auger device to the desired sample depth and then transferring the excavated soil from the hand auger bucket to appropriately labeled 250 ml wide mouth glass containers. Samples were then placed on ice in a cooler and later delivered to Cascade Analytical under Chain of Custody (COC) documentation (see Appendix D). Soil sampling equipment was decontaminated prior to augering each

sampling location and sampling event by the procedures described in the workplan (Appendix B).

The Sample Identification List (Appendix C) presents details for each sample location, depth, and analytes. Arsenic and lead were analyzed by EPA Method 6010. It was originally planned to use Method 6020 for these metals, but the laboratory had equipment problems and needed to use method Method 6010 instead; the difference is that Method 6010 has a slightly higher detection limit concentration, which is insignificant for this study. Organochlorine pesticides were analyzed by EPA Method 8081A, organophosphorus pesticides by EPA Method 8141, and chlorinated herbicides by EPA Method 8151A.

Discussion of the site is divided into several categories below.

4.1.1 General Orchard Area Soils.

Samples were collected from depths of 0.5, 1.5, and 3.0 feet below ground surface (bgs) from all sample locations within the grid pattern. At eight of these locations, additional samples were collected from 5.0 feet bgs. At three locations (E01, E11, and E13), samples were planned for collection from 5.0 feet bgs but could not be collected due to refusal at shallower sampling depths.

All of these samples were analyzed for arsenic and lead by EPA Method 6010. Additionally, 17 of these samples were analyzed for organochlorine pesticides and two of these samples were analyzed for organophosphorus pesticides and chlorinated herbicides. All three samples collected at location E12 were analyzed for arsenic and lead by TCLP (EPA Method 6010).

4.1.2 Pesticide Mixing Area.

Additional soil samples were collected from three locations (E25-E27) around the former pesticide batch mixing area located in the western area of the site. Samples were collected from depths of 0.5 and 2.5 feet bgs from the three locations and from 5.0 feet bgs at E25. Samples were not collected from 5.0 feet bgs as planned at locations E26 and E27 due to refusal at shallower depths, however a sample was collected from 3.2 feet bgs at E26 to replace the 5.0 feet bgs sample.

These additional samples were analyzed for arsenic and lead. Six of these samples were also analyzed for organochlorine pesticides and three were analyzed for organophosphorus pesticides and chlorinated herbicides.

4.1.3 Pesticide Distribution Piping.

Soil samples were also collected from one location (E28) adjacent to and beneath what is believed to be a former pesticide distribution pipeline. The sample was collected by excavating and exposing the 1.5 inch pipeline to locate a fitting. The 19 feet of pipeline

that was unearthed was intact and no indications of releases or leaks were observed. The pipeline was approximately 2.5 feet bgs; samples were collected just below the fitting and from 5.0 feet bgs. The two samples were analyzed for arsenic and lead and for organochlorine pesticides.

4.1.4 Mobile Sprayer Filling Station.

Soil samples were collected from two locations (E31-E32) at the former pesticide sprayer fill station located in the north-central area of the site. Samples were collected from depths of 1.5 and 5.0 feet bgs. All four samples were analyzed for arsenic and lead and organochlorine pesticides. Three of the four samples were also analyzed for organophosphorus pesticides and chlorinated herbicides.

4.1.5 Underground Storage Tank.

An underground storage tank (UST) was encountered in the southern area of the site north of 8th Street. Soil above the tank was excavated by hand shoveling to expose the western side of the UST. A small concrete pad measuring approximately 2 feet by 2 feet was located 3 feet north of the tank. The concrete pad contained anchor bolts and may have been a former pump location. A 2-inch horizontal line ran from the concrete pad to an uncapped access port at the top of the UST. Further excavation revealed that the tank was buried approximately 1'-10" bgs, oriented east-west, and measured 45 inches in diameter. The Forsgren field technician was unable to determine the length of the tank, however, standard tank capacity for this type of tank is 500 gallons. The UST was filled with a liquid that appeared to be water that had a hydrocarbon odor. No floating product was observed. No odors, staining, or other field indications of leakage were observed during the excavation of the western side of the tank.

One soil sample was collected on the downhill side (west) of the UST from 5.5 feet bgs. The sample was analyzed for total petroleum hydrocarbons-HCID by EPA Method 8015M.

4.2 Quality Assurance/Quality Control (QA/QC) Procedures

QA/QC procedures for field sampling and laboratory analysis were employed as described in the Forsgren Associates Workplan (Appendix B). Chain of Custody documentation is included in Appendix D.

Laboratory QA/QC data were evaluated, which indicated that the field data obtained are of suitable quality for use for this project (Appendix E-2).

5.0 Analytical Results.

Results of the laboratory analyses are summarized in Table 1 through 4. Results of arsenic and lead analysis of all samples are shown in Table 1. Table 2 includes the results of analysis for RCRA metals in 6 representative samples. Table 3 presents results

Table 1
Proposed Eastmont Junior High School, East Wenatchee, WA
Soil Analytical Results for Arsenic and Lead
All Results in mg/kg

Sample ID	Sample Depth*	Sample Date	Arsenic	Lead
E01-S01	0.5 feet bgs	4/18/01	71.1	149
E01-S03	1.5 feet bgs	4/18/01	78.1	18.8
E01-S05	3.0 feet bgs	4/18/01	70.6	52.5
E02-S01	0.5 feet bgs	4/18/01	532	1660
E02-S03	1.5 feet bgs	4/18/01	117	22.2
E02-S05	3.0 feet bgs	4/18/01	6.04	10.0
E03-S01	0.5 feet bgs	4/18/01	493	1550
E03-S03	1.5 feet bgs	4/18/01	129	111
E03-S05	3.0 feet bgs	4/18/01	60.5	7.4
E03-S07	5.0 feet bgs	4/18/01	15.0	30.6
E04-S01	0.5 feet bgs	4/18/01	144	241
E04-S03	1.5 feet bgs	4/18/01	73.1	8.7
E04-S05	3.0 feet bgs	4/18/01	4.01	7.2
E05-S01	0.5 feet bgs	4/18/01	52.2	11.6
E05-S03	1.5 feet bgs	4/18/01	5.55	10.8
E05-S05	3.0 feet bgs	4/18/01	3.75	6.3
E05-S07	5.0 feet bgs	4/18/01	2.96	7.0
E06-S01	0.5 feet bgs	4/18/01	55.4	8.0
E06-S03	1.5 feet bgs	4/18/01	41.8	3.4
E06-S05	3.0 feet bgs	4/18/01	2.45	3.2
E06-S07	5.0 feet bgs	4/18/01	<1.66	3.8
E07-S01	0.5 feet bgs	4/18/01	119	323
E07-S03	1.5 feet bgs	4/18/01	83.52	5.8
E07-S05	3.0 feet bgs	4/18/01	6.257	6.1
E08-S01	0.5 feet bgs	4/18/01	93.02	475
E08-S03	1.5 feet bgs	4/18/01	6.294	7.6
E08-S05	3.0 feet bgs	4/18/01	47.94	82.3
E09-S01	0.5 feet bgs	4/18/01	128.2	67.3
E09-S03	1.5 feet bgs	4/18/01	5.230	8.2
E09-S05	3.0 feet bgs	4/18/01	18.99	71.1
E10-S01	0.5 feet bgs	4/18/01	78.28	626
E10-S03	1.5 feet bgs	4/18/01	38.01	5.5
E10-S05	3.0 feet bgs	4/18/01	15.28	4.9
E11-S01	0.5 feet bgs	4/19/01	104.1	58.3
E11-S03	1.5 feet bgs	4/19/01	66.83	9.2
E11-S05	3.0 feet bgs	4/19/01	65.61	115
E12-S01	0.5 feet bgs	4/19/01	0.62	<0.1
E12-S02	0.5 feet bgs	4/19/01	74.86	12.6
E12-S03	1.5 feet bgs	4/19/01	0.58	<0.1
E12-S04	1.5 feet bgs	4/19/01	69.56	5.4
E12-S05	3.0 feet bgs	4/19/01	0.25	<0.1
E12-S06	3.0 feet bgs	4/19/01	18.67	4.1
E13-S01	0.5 feet bgs	4/19/01	85.04	50.4
E13-S03	1.5 feet bgs	4/19/01	51.27	115
E13-S05	3.0 feet bgs	4/19/01	75.75	343
E14-S01	0.5 feet bgs	4/19/01	92.00	204
E14-S03	1.5 feet bgs	4/19/01	26.18	5.7
E14-S05	3.0 feet bgs	4/19/01	<2.89	5.3
E15-S01	0.5 feet bgs	4/18/01	212.8	470

TCLP

TCLP

TCLP

Table 1
Proposed Eastmont Junior High School, East Wenatchee, WA
Soil Analytical Results for Arsenic and Lead
All Results in mg/kg

Sample ID	Sample Depth*	Sample Date	Arsenic	Lead
E15-S03	1.5 feet bgs	4/18/01	83.33	12.7
E15-S05	3.0 feet bgs	4/18/01	<2.927	5.2
E15-S07	5.0 feet bgs	4/18/01	<2.838	4.7
E16-S01	0.5 feet bgs	4/19/01	69.18	38
E16-S03	1.5 feet bgs	4/19/01	51.25	104
E16-S05	3.0 feet bgs	4/19/01	77.70	153
E17-S01	0.5 feet bgs	4/19/01	75.47	141
E17-S03	1.5 feet bgs	4/19/01	73.26	8.5
E17-S05	3.0 feet bgs	4/19/01	43.51	17.4
E18-S01	0.5 feet bgs	4/19/01	115.6	744
E18-S03	1.5 feet bgs	4/19/01	74.28	6.2
E18-S05	3.0 feet bgs	4/19/01	31.08	11.0
E19-S01	0.5 feet bgs	4/18/01	69.28	9.6
E19-S03	1.5 feet bgs	4/18/01	82.25	175
E19-S05	3.0 feet bgs	4/18/01	87.86	302
E20-S01	0.5 feet bgs	4/18/01	222.9	983
E20-S03	1.5 feet bgs	4/18/01	57.86	8.2
E20-S05	3.0 feet bgs	4/18/01	47.18	4.6
E20-S07	5.0 feet bgs	4/18/01	<2.998	5.2
E21-S01	0.5 feet bgs	4/18/01	121.1	1030
E21-S03	1.5 feet bgs	4/18/01	69.52	23.3
E21-S05	3.0 feet bgs	4/18/01	91.33	187
E22-S01	0.5 feet bgs	4/19/01	49.72	38.5
E22-S03	1.5 feet bgs	4/19/01	64.10	16.9
E22-S05	3.0 feet bgs	4/19/01	36.12	22.1
E22-S07	5.0 feet bgs	4/19/01	35.16	99.1
E23-S01	0.5 feet bgs	4/18/01	115.6	101
E23-S03	1.5 feet bgs	4/18/01	18.65	10.0
E23-S05	3.0 feet bgs	4/18/01	5.577	25.1
E24-S01	0.5 feet bgs	4/18/01	405.3	1430
E24-S03	1.5 feet bgs	4/18/01	75.06	24.9
E24-S05	3.0 feet bgs	4/18/01	<2.834	5.6
E24-S07	5.0 feet bgs	4/18/01	<2.825	4.6
E25-S01	0.5 feet bgs	4/19/01	262	1080
E25-S03	2.5 feet bgs	4/19/01	11.9	9.2
E25-S07	5.0 feet bgs	4/19/01	46.99	117
E26-S01	0.5 feet bgs	4/19/01	2.766	5.9
E26-S03	2.5 feet bgs	4/19/01	4.722	13.2
E26-S07	4.0 feet bgs	4/19/01	12,21	41.3
E27-S01	0.5 feet bgs	4/18/01	119	13.3
E27-S03	2.5 feet bgs	4/18/01	78.8	5.1
E27-S07	3.2 feet bgs	4/18/01	71.90	92.0
E28-S03	2.5 feet bgs	4/20/01	106.5	174
E28-S07	5.0 feet bgs	4/20/01	26.52	2.8
E31-S01	1.5 feet bgs	4/18/01	35.27	6.0
E31-S03	5.0 feet bgs	4/18/01	15.32	34.3
E32-S01	1.5 feet bgs	4/18/01	19.16	6.7
E32-S03	5.0 feet bgs	4/18/01	3.257	13.7

^{*}Sample depth in feet below ground surface

Samples were analyzed in accordance with SW 846 method 6010 .

Some arsenic results were determined using SW846 method 7060 due to problems with the ICP instrument.

Table 2
Proposed Eastmont Junior High School, East Wenatchee, WA
Soil Analytical Results for RCRA Metals

All Results in mg/kg

Sample ID	Sample	Sample Date				8 RCR	A Metals			
agitiple in	Depth*	Sample Date	As	Ba	Cd	Cr	₽b	Hg	Se	Ag
E06-S01	0.5	4/18/01	55.4	79.4	<0.32	9.47	8.0	<0.016	<2.67	<0.13
E06-S03	1.5	4/18/01	41.8	68.8	<0.32	9.84	3.4	<0.0161	<2.68	<0.13
E25-S01	0.5	4/19/01	262	98.8	<0.35	11.7	1080	<0.0174	<2.91	<0.15
E25-S03	2.5	4/19/01	11.9	106	<0.34	16.2	9.2	<0.0169	<2.81	<0.14
E27-S01	0.5	4/18/01	119	78.2	0.32	9.41	13.3	<0.0161	<2.68	<0.13
E27-S03	2.5	4/18/01	78.8	117	<0.35	16.5	5.1	<0.0175	<2.92	<0.15

*Sample Depth in feet below ground surface

As-Arsenic, Ba-Barium, Cd-Cadmium, Cr-Chromium, Pb-Lead, Hg-Mercury

Se-Selenium, Ag-Silver

Samples were analyzed in accordance with SW846: 7060, 6010, 7471, or 7740 as appropriate.

Table 3 Proposed Eastmont Junior High School, East Wenatchee, WA Soil Analytical Results for Organochlorine Pesticides

All Results in ug/kg

Sample D	lorine
E02-S03 1.5 4/18/01 <0.12	ns
E04-S01 0.5 4/18/01 <0.12 21 4.1 <0.21 <0.23 <0.28 none E04-S03 1.5 4/18/01 <0.13	
E04-S03 1.5 4/18/01 <0.13 2 0.96 <0.21 <0.23 <0.28 none E04-S05 3.0 4/18/01 <0.13	
E04-S05 3.0 4/18/01 <0.13 <0.15 <0.19 <0.21 <0.23 <0.28 none E06-S01 0.5 4/18/01 <0.12	
E06-S01 0.5 4/18/01 <0.12 66.0 9.2 <0.21 <0.23 <0.28 none E06-S03 1.5 4/18/01 <0.12	
E06-S03 1.5 4/18/01 <0.12 5.9 1.2 <0.21 <0.23 <0.28 none E07-S01 0.5 4/18/01 <0.13	
E07-S01 0.5 4/18/01 <0.13 130 280 <0.21 <0.23 <0.28 alpha BHC=0.79, gamm BHC=0.79, gamm BHC=0.79 E10-S01 0.5 4/18/01 <0.14	
E10-S01 0.5 4/18/01 <0.14 220 38 <0.26 0.51 <0.34 none E14-S01 0.5 4/19/01 2.8 45 42 0.5 <0.27	
E14-S01 0.5 4/19/01 2.8 45 42 0.5 <0.27 <0.33 none E16-S01 0.5 4/19/01 <0.13	1C=0.37
E16-S01 0.5 4/19/01 <0.13 150 120 <0.25 0.91 2.4 none E16-S03 1.5 4/19/01 <0.13	
E16-S03 1.5 4/19/01 <0.13	
E19-S01 0.5 4/18/01 <0.13 130 20 <0.24 <0.26 0.86 none E19-S03 1.5 4/18/01 <0.12	
E19-S03 1.5 4/18/01 <0.12 220 320 <0.24 <0.25 <0.31 none E19-S05 3.0 4/18/01 <0.12	
E19-S05 3.0 4/18/01 <0.12 410 620 <0.23 <0.25 1.8 none E21-S01 0.5 4/18/01 <0.12	
E21-S01 0.5 4/18/01 <0.12 110 100 <0.24 6.9 <0.31 none	
E24-S01 0.5 4/18/01 <0.13 560 870 <0.24 <0.26 3.1 none	
E25-S01 0.5 4/19/01 110 550 4800 <4.5 <4.8 <5.9 alpha BHC=3	
E25-S03 2.5 4/19/01 <0.11 0.83 5.2 <0.21 <0.23 <0.28 none	
E26-S01 0.5 4/19/01 <0.12 8.8 1.2 0.38 <0.26 <0.31 alpha BHC=2.1, gammaBH	IC=0.25
E26-S03 2.5 4/19/01 <0.12 1 <0.18 <0.24 <0.25 <0.31 none	
E27-S01 0.5 4/18/01 1.3 28 27 2.8 <0.26 <0.31 none	
E27-S03 2.5 4/18/01 <0.13 1.6 1.8 7.7 <0.26 <0.16 none	
E28-S03 2.5 4/20/01 <0.13 27 35 8 <0.27 <0.33 alpha BHC=0.25	
E28-S07 5.0 4/20/01 <0.12 <0.15 <0.18 1.8 <0.26 <0.31 none	
E31-S01 1.5 4/18/01 <0.13 5.2 28 <0.25 2.3 <0.32 Endosulfan sulfate=2.8	
E31-S03 5.0 4/18/01 <0.13 20 160 <0.25 20 3.7 none	
E32-S01 1.5 4/18/01 <0.13 3.1 1.8 <0.24 <0.25 <0.31 none	
E32-S03 5.0 4/18/01 <0.13 26 18 <0.21 <0.23 <0.28 none	

*Depth in feet below ground surface

Samples were analyzed using USEPA Method 8081A.

Table 4
Eastmont Junior High School, East Wenatchee, WA
Soil Analytical Results for Organophosphorus Pesticides
and Chlorinated Herbicides

All Results in ug/kg

Sample ID	Sample Depth*	Sample Date	Organophosphorus Pesticides	Chlorinated Herbicides
E06-S01	0.5	4/18/01	ND	ND
E06-S03	1.5	4/18/01	ND	ND
E25-S01	0.5	4/19/01	ND	ND
E25-S03	2.5	4/19/01	ND	ND
E27-S01	0.5	4/18/01	ND	ND
E27-S03	2.5	4/18/01	ND	ND
E31-S01	1.5	4/18/01	ND	ND
E31-S03	5.0	4/18/01	ND	ND
E32-S01	1.5	4/18/01	ND	ND
E32-S03	5.0	4/18/01	ND	ND

^{*}Sample depth in feet below ground surface.

ND = not detected. See laboratory data sheets for detection limits for the individual analytes. Organophosphorus Pesticides were measured using USEPA Method 8141 GC/MS Modified. Chlorinated Herbicides were measured using USEPA Method 8151 BD/MS Modified.

of analyses for organochlorine pesticides in selected samples. Results of analyses for organophosphorus pesticides and chlorinated herbicides are shown for selected samples in Table 4. Analytical laboratory data reports are included in Appendix E-1.

All surface soil samples collected from the site contain measurable concentrations of arsenic. Comparatively high lead concentrations accompany all of those samples with higher arsenic concentration although not all samples exhibited elevated lead concentrations. Higher arsenic and lead concentrations were detected in samples in the north central area of the site in the grid areas containing sample locations E02 and E03, in the E24 grid area, in the E20/E21 grid area and in the area of the former chemical mixing area in grid E11.

DDT was found distributed throughout the site. Comparatively high DDT concentrations were found in only two sample locations, E02 and E25.

TCLP analysis of samples E12-S01, -03 and -05 resulted in arsenic concentrations of 0.62mg/L, 0.58mg/L and 0.25mg/L, respectively. Lead concentrations were not detected in any of the three samples at or above a practical quantitation limit of 0.1mg/L.

6.0 Remediation Levels

Washington State Model Toxic Control Act (MTCA) regulations (WAC 173-340) establish cleanup levels for a variety of common soil and groundwater contaminants. The State legislature revised the MTCA regulations in spring, 2001, but because the revisions do not take effect until August 15, 2001 this site assessment project is being performed under the prior rules.

The regulations divide the methods for determining cleanup levels into three types-Methods A, B and C. The methods vary in where they can be applied and in their complexity of use. Method A is the easiest to use and is the most stringent. It is typically used for residential and similar areas. Methods B and C are based on more complex calculations of cleanup levels using risk analysis criteria and are used for commercial or industrial areas. Methods B and C were not considered for establishing cleanup levels because they are not considered suitable for a school site.

The Method A cleanup levels are 20 mg/kg arsenic, 250 mg/kg lead, and 1000 ug/kg (i.e., 1mg/kg) DDT. As mentioned earlier, site soils contain arsenic, lead and DDT concentrations above these Method A levels.

Contaminated soil on the subject property is not designated as Dangerous Waste under Ecology interpretation of the state's dangerous waste regulations (Jim Pearson, Ecology, Dangerous Waste Program, Yakima, WA, personal conversation, 5/18/2001). According to Ecology guidance, for a simple evaluation, if the sum of contaminant concentrations is lower than 10,000 mg/kg (i.e., 1%) the soil would not be designated as Dangerous Waste. Maximum combined concentration in samples obtained from site soils is 2200 mg/kg or 0.22% (sample E02-S01). In addition, TCLP data for arsenic and lead show their

concentrations to be much less than the regulatory threshold of 5 mg/l each. Therefore, the soil on the subject property is not considered a hazardous or dangerous waste and does not require disposal at a hazardous waste landfill.

7.0 Proposed Remediation Program

Discussions with representatives of Ecology's Toxic Cleanup Program in the Central Region Office, Yakima, have been instrumental in establishing the remediation approach for this site. The common nature of the contaminants, historical documentation regarding the disposition of arsenic-, lead- and DDT-contaminated soils on other former orchard properties, and the results of the TCLP analyses were all considered in developing the approach. These considerations reinforce the determination that these soils may be left on site as long as they are interred beneath a suitable cap to minimize and prevent possible exposure of property users, infiltration of water through the soils is minimized, irrigation water is applied at agronomic rates, and that the site property deed is properly noted to indicate the existence of the contamination on the site. The proposed remediation approach has the following elements.

7.1 General orchard area soils.

A significant amount of soil will be moved on the site as part of the planned school construction. Orchard area soils will be relocated as described Section 7.5 and as shown on the site grading plan (Appendix F). The grading plan cross-sections provide the viewer with the best indication of where cut and fill areas are. As best feasible during construction, the contractor will place the more highly contaminated material in a position where it will have the greatest thickness of clean fill atop it

7.2 Mixing area soils.

Mixing area soils did not contain concentrations of contaminations in excess of the rest of the property, so special procedures will not be required. The mixing area soils will be moved in conjunction with orchard area soils prior to capping.

7.3 Distribution system soils and debris.

Soils around the distribution piping will be left onsite and graded along with other soils according to the grading plan (Appendix F). Contaminated piping and other associated debris will be removed and then stockpiled. Samples will then be sent to a laboratory for analysis. Based on these results this debris will then be disposed at a suitable, permitted off-site disposal facility.

7.4 Underground storage tank.

The underground storage tank situated in the grid with general soil sample number E22 will be decommissioned as per Washington Department of Ecology regulations by a licensed contractor. Liquid in the tank will be removed and disposed at a suitable, permitted off-site disposal facility.

7.5 Excavations and Backfill

Utility and irrigation system trenches will be filled with clean bedding and backfill so that in the future utility work can be accomplished without concern about working in contaminated soil.

7.6 Impervious Surfacing and Clean Topsoil Caps

Areas to receive impervious surfacing are the best areas to place the contaminated soil because they provide the best barrier to exposure. Parking lots, access roads, driveways, the building footprint, and the tennis courts have been identified as good locations for placement of contaminated soil. Contaminated soil use under these areas will be maximized by building up the existing grade to subgrade level.

Lawn and playfield areas will receive a cap of 6 inches of uncontaminated, compacted fill followed by 6 inches of topsoil, as discussed with Ecology representatives. The fill will consist of graded material containing some angular rock that will compact to a firm layer; this layer is to prevent children and others from accidentally reaching the contaminated soils when digging by hand. The layer will provide not only a barrier, but a visual and tactile warning.

7.7 Site Drainage

The East Wenatchee area receives only small amounts of precipitation, averaging approximately 11 inches annually. This small quantity reduces the need for elaborate stormwater controls for minimizing rainfall infiltration into the site soils.

Most of the drainage on the site will be routed to a detention/infiltration pond to be built at the southwest corner of the site. Runoff from the impervious areas at the southeast corner of the site will be piped under Eighth Street to a regional detention facility just south of the street.

The site detention/infiltration pond will be about six feet below existing grade. During construction the soil will be tested to ensure that the bottom of the pond is below the contaminated soil horizon. If it is not, then the pond will be overexcavated, and backfilled with uncontaminated material.

All impervious surfaces, except the tennis courts, will collect rainfall runoff and route it to storm drain collection piping, which will then route the runoff to the detention/infiltration pond. Rainfall on the tennis courts will sheetflow to the south, across a short stretch of lawn, then onto a parking lot where it will be collected along with other runoff.

Rainfall on the ballfields and grass areas will sheet flow until it reaches an impervious area where it is routed to the piping system, or will soak into the ground. Rainfall on the track will be routed to drains along the perimeter and then routed to the site storm drainage pipe system.

There is one location where drainage enters from off the site and must be conveyed across the site. Storm drainage from Iowa Street enters near the proposed soccer field. It will be piped under the field then through a 200-foot long swale-like feature to a parking lot where is will be collected and routed to the detention/infiltration pond.

7.8 Institutional controls

Institutional controls are required to maintain the integrity of the isolation measures and to notify future property users or potential buyers of the existence of contamination on the site. They include a notice on the property deed and inhouse notification of all affected parties. The school district has its own maintenance department that oversees all work on its properties. A brief memorandum will be prepared for the district that describes the conditions at the site and considerations for the maintenance department. They will need to inspect the cap and barriers at least annually and fix any problems swiftly. They will also need to review the irrigation operation regularly to ensure that the lawns and landscaped areas are not overwatered.

8.0 Disposal requirements

8.1 Contaminated soils

No offsite disposal of contaminated soil is proposed.

8.2 Contaminated debris

Debris from the chemical distribution system piping will be analyzed for lead and arsenic. If it is sufficiently contaminated it will be disposed of at an offsite suitably permitted facility. If it is not heavily contaminated it will be disposed at a local construction debris landfill such as the construction debris area at the Greater Wenatchee Regional Landfill (GWRL), East Wenatchee, WA

The underground storage tank will be disposed of in accordance with applicable regulations by a licensed tank closure contractor.

Buildings that were demolished prior to construction were disposed of by the demolition contractor.

Any other suspect materials found on site during construction will be evaluated and disposed of appropriately.

9.0 Conclusions.

The results of this site assessment show that arsenic, lead and DDT are present in near-surface soils of this former orchard site at concentrations above the MTCA Method A

levels. In some locations, contamination with arsenic at concentrations above the MTCA Method A Cleanup Level was found at depths exceeding three feet.

Elevated concentrations of these contaminants were present in all former orchard areas including the pesticide mixing area and in association with the piping distribution system. Concentrations are, in general, greater than the Washington State MTCA Method A Cleanup Levels for lead, arsenic and DDT. However, the combined contaminant concentration for lead, arsenic and DDT is well below the combined concentration at which Ecology would consider this material dangerous waste. Site soils did not exhibit toxicity characteristic as determined by the TCLP procedure. Therefore, a remediation approach has been developed that keeps the soil onsite and yet is protective of human health and the environment.

The soil will be graded as is appropriate for construction of the new school and grounds as proposed by Eastmont School District No. 206. Specific remediation strategies for the various components of the site were described in Section 7. In general, contaminated soils will be capped by impermeable material such as asphalt or concrete in the areas covered by school buildings, parking areas, tennis courts, roads, sidewalks, and the track; other areas will be covered by six inches of clean pit-run rock aggregate as a barrier layer, then topped six inches of clean topsoil and landscaping. A protective covenant will be added to the property deed that prevents the disturbance, excavation or removal of any contaminated soils currently on site except under controlled conditions.

10.0 Limitations

Within the limitations of the scope of work, schedule and budget for this project, Forsgren's services have been performed in accordance with generally accepted industry practices in the area at the time this work was executed. No warranty, guarantee or other condition, express or implied, should be understood.

We have prepared this report for use by the Eastmont School District No. 206 in developing the subject property in East Wenatchee, Washington. This report may be made available to regulatory agencies as necessary. However, it is not intended for use by any other party. The information contained herein is not applicable to other sites. Our interpretation of the nature and extent of pesticide contamination on the site is based on data collected at the sampling points. It is possible that differing contamination levels exist in soils on the site in areas that were not sampled and tested by analytical laboratory methods.

APPENDIX A VOLUNTARY CLEANUP PROGRAM DOCUMENTATION





Voluntary Cleanup Program

Washington State - Department of Ecology - Toxics Cleanup Program

Request For Assistance/ Review Form

If yes, what is that person's name? KICK	epresentative in the past? Yes (our consultant has) Roeder, Ecology-Yakima
And the approximate date? most recently M	ay 17, 2001
Is this a leaking underground storage tank site?	? (includes piping leaks) No. (There is a tank, but
We do not believe it is leaking. Please submit the following with this signed form to	the appropriate Ecology office (see back of form)
Site Summary (ECY 020-73) A Check or Money Order for \$500 made out to "C	Any other existing reports on this site Department of Ecology"
Applicant completes this section: (Note: The applica	nt is responsible for all billings)
Applicant Name: Joel Thaut, Superintender	nt Phone: 509-884-7169
Applicant Address: Eastmont School District	460 9th Avenue NE
City: East Wenatchee State	: WA Zip: 98802
Site Name: proposed Eastmont Jr. High	Alternate Name:
Site Address: between 8th NE & 10th NE,	
City: East Wenatchee State	
Site Owner Name: Eastmont School District	
Site Owner Address: see above	Phone:
City: State	: Zip:
Application I have enclosed \$500. I understand eight (8) hours of staff review and/or assistance charges will depend on specific staff and charge than \$500. I will be billed for and I agree to pay	ne assistance of the Department of Ecology. With this d that: this payment is the equivalent of approximately e on the cleanup of my contaminated site; actual e-out rates of that staff; if total charges are greater The remainder; and any excess payments will be
refunded to me.	5/17/01
Signal	ture of Applicant / Date
	e applicant is responsible for all billings.
For Office Use only:: Date: Hours: Rate:	Staff Name:
Date: Hours: Rate:	Staff Name:
Date:: Hours: Rate:-	Staff Name:
Date: Hours: Rate:	Staff Name;
For Office:Use only:: Receipts	For FISCAL USE ONLY
Amount Date Pd Rec. #	473-02-94-005000-5000 -
	(LUST/Non-LUST)::: (Office):::
	LUST/Non-LUST: LUST:=30: Non-LUST:=20
	OFFICE: NWRO - 40 SWRO - 50 ERO - 60 CRO - 70 IND - 80 HDQR-90
ECY 020-74 (Rev. 09/98)	TCP I.D. #

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(SIS, LUST, VCP)





Voluntary Cleanup Program

Washington State - Department of Ecology - Toxics Cleanup Program

Site Summar	У

ite Summary	No. 1 Ave. Cleanup Program
nis Summary is a required component o	of your request for assistance under the Voluntary Cleanup Program
vhich of the following apply?	Requesting assistance on a planned cleanup Requesting assistance on an ongoing cleanup. Requesting review of a completed cleanup.
lote: If you submitted your Request fo orm) or this is a revised Site Summary lays prior to the meeting/site visit/docu	or Assistance (ECY 020-74) previously without a Site Summary (this Please provide this completed form to Ecology at least five (5) working mentation review (whichever comes first).
A) Site Identification: Name of Site: proposed Eastmo	nt Junior High School
Alternate Name(s) for Site:	
Street Address of Site: unknown	- between 8th & 10th NE, west of lowa Street
· .	State: WA Zip: 98802
	UBI Number:
Mailing Address (if different from abov	ve): Eastmont School District 460 9th Avenue NE
City: East Wenatchee	State: WA Zip: 98802
Township 22N Range 20E If Known: Latitude: 47 Degree Longitude: 120 Degree Method used to calculate Latitude How large (in acres) is the site?	Section 12 Quarter-Quarter NE 1/4 of NW 1/4 25 Minute Second 16 Minute Second and Longitude: interpolate on USGS map. about 36
 Please attach two maps to this form. An area map, showing general longhways, and streets. (Please notes) A site diagram showing surround etc. 	ocation of the site in relation to surrounding bodies of water, closs,
B) Person/Organization Making Re	equest for Assistance/Review:
Name: David Nitchals, PE	
Firm: Forsgren Associates, In	IC
Street Address: 112 Olds Station	Road, Suite A State: WA Zip: 98801
City: Wenatchee	VV /
Telephone Number: 509-667-1426	e-mail address: dnitchals@forsgren.com

lemediation:		•	•	
las any site cleanup work been done at the site? yes [] I yes, please continue to answer the remaining questions in	no 🔀 in-prog n this section t	gress [] o the bes	st of your a	ability.
When was the cleanup work done? NOT APPLICA Were results reported to Ecology? yes no date Describe: (list reports in "E" below)	BLE			
				•
Does contamination remain on-site after cleanup activities? If yes, describe: (list reports in "E" below)	? yes 🗌 no (
As a result of the cleanup: How many acres of land were returned to use?	•			

E) Documentation:

Please list titles of all site reports below. Include name of consulting firm and year completed.	(If there is not
enough room for the entire list, please attach additional page(s) as necessary.)	

nlet		
	Ey.	OFIG
In progress	Forsgren Associates, Wenatchee	
s additional information concerning the contused available in a data base? yes no so so a copy included for our use? yes no so	If yes, what programming software is	p or remediation methods s use?
Property currently being used? yes no Plans for change in use? yes \omega no If is planned for use as a junio	yes, please specify: The property wright school.	as apple orchard. It
List all that apply. If none apply, or if you do) Codes: n't know your SIC code, list activities co	onducted at the site
List all that apply. If none apply, or if you do) Codes: n't know your SIC code, list activities co	onducted at the site
List all that apply. If none apply, or if you do (i.e. automotive repair and maintenance, cor) Codes: n't know your SIC code, list activities co	enducted at the site
List all that apply. If none apply, or if you do) Codes: n't know your SIC code, list activities co	enducted at the site
G) Standard Industrial Classification (SIC List all that apply. If none apply, or if you do (i.e. automotive repair and maintenance, con Formerly orchard H) Dangerous Waste Facilities:) Codes: n't know your SIC code, list activities co	enducted at the site
List all that apply. If none apply, or if you do (i.e. automotive repair and maintenance, cor) Codes: n't know your SIC code, list activities construction equipment storage, etc.).	enducted at the site
List all that apply. If none apply, or if you do (i.e. automotive repair and maintenance, cor Formerly orchard H) Dangerous Waste Facilities: Does the facility have a dangerous waste id) Codes: n't know your SIC code, list activities construction equipment storage, etc.).	enducted at the site

Tank ID	ASTRIST:	CARRELLES AND PERSONS AND PROPERTY.	encounter Product		In Excavation	*TankStatus
None	UST	300 gal(e		·		
(1) The	tank is pro	bably a h	ome heatir	ġ oil tan	k. It has a liqu	id in it, which
appe	ars more di	Jute than	oil. A so	il sample	below tank bott	om level off the
dowr	hill sidecof	the tank	revealed	no hydro	arbons present.	

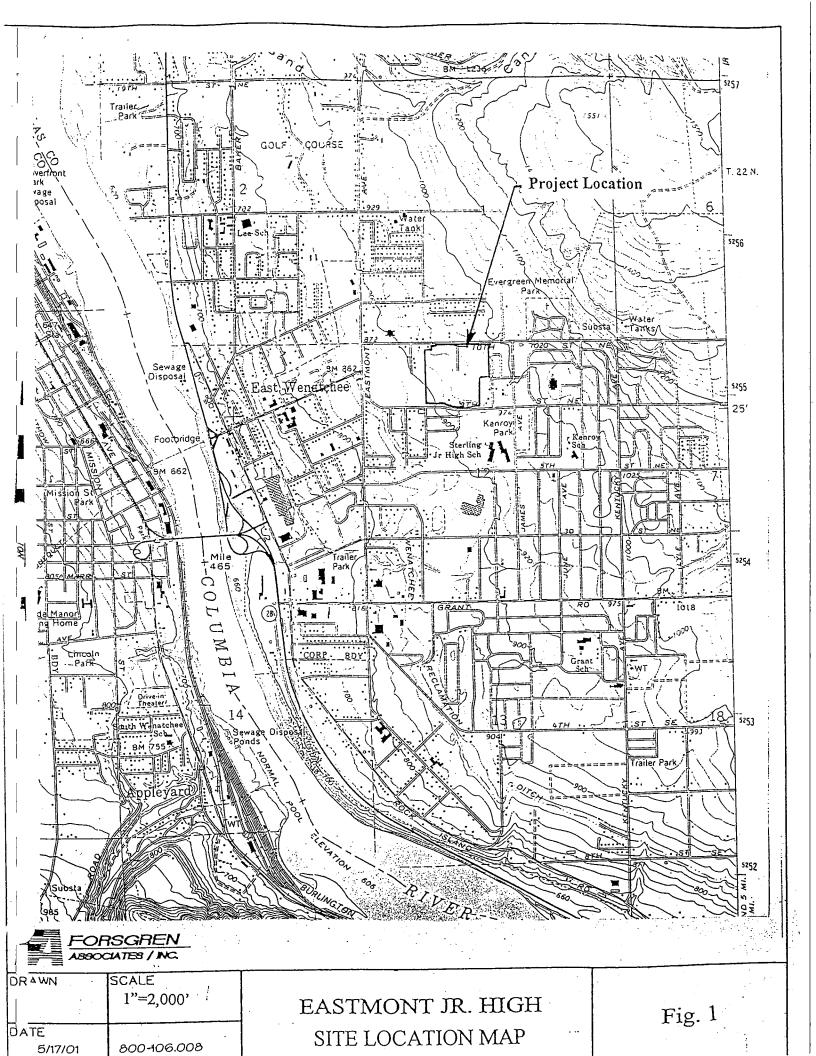
J) Owner/Operator History
(Please photocopy and attach copies if additional owners and/or operators are known.)

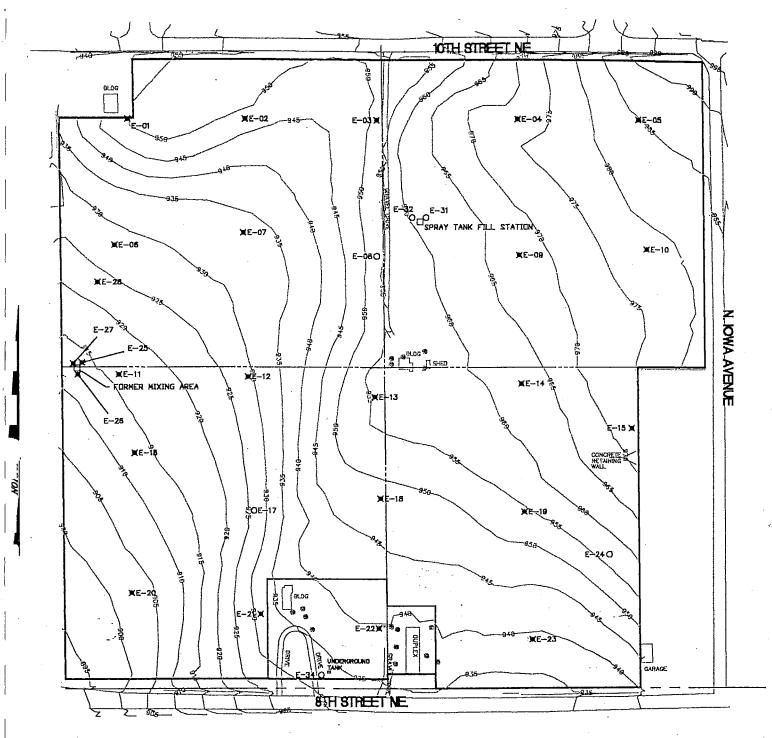
yne (code) of Owner/Operator (for below):	-			•
rite (1) Municipal (2) County (3) Federal (4)	State (5) Tribal (6)	Mixed (7) Othe	er (8) Unknown (9)
c clique Acquisition via Bankruptcy (11)	•		·	,
NW Quarter (10 acres)			· · · · · · · · · · · · · · · · · · ·	 -
Somer Site Owner. Andrew and Rhea Wa	slenko		Type: 1	
Street Address: 800 10th Street NE		 		
Cit <u>East Wenatchee</u>	State: WA	. ZIP: 98802	·	
Contact Persons (if different than owner, above):	<u> </u>			
Sti et Address:	· · · · · · · · · · · · · · · · · · ·		 -	
Cit,	State:	ZIP:		
Telephone Number;	Extension:			
-a Number:	e-mail address:		· · · · · · · · · · · · · · · · · · ·	
Dates of Ownership: unknown to	1978			
(Service)				<u>- ·</u>
SW and NE Quarters (10 acres eac	h)			•
Former Site Owner: William C and Gwyn			T 1	
Si set Address: unavailable -	⊃ (⊆Mai·f		Type: 1	
City:	Ctata		· · · · · · · · · · · · · · · · · · ·	
C tact Persons (if different than owner, above):	State:	ZIP:	· · · · · · · · · · · · · · · · · · ·	
Street Address:			· · · · · · · · · · · · · · · · · · ·	
Coree Address.			· · · · · · · · · · · · · · · · · · ·	·
7	State:	ZIP:		
Te ∋phone Number:	Extension:	•		
Fax Number:	e-mail address:	·	· · · · · · · · · · · · · · · · · · ·	
Des of Ownership: unknown to	1989	<u> </u>		
SE Quarter (6 acres)				
omer Site Owner Ralph M. Bendickson	·.		Type: 1	· ·
St. et Address: unavailable	3	· · · · · · · · · · · · · · · · · · ·		
City:	State:	ZIP:	· · · · · · · · · · · · · · · · · · ·	
Co tact Persons (if different than owner, above):	<u> </u>			
Street Address: -	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		:
<u> Cij</u> :	State:	ZIP:		
Telephone Number:	Extension:	•	· · ·	
Fax Number:	e-mail address:			
Da ≥s of Ownership: unknown to	1989			
- Full 36 Acres				
ormer Site Owner Big K Orchards Con	npany ·		Type: 1	
Street Address: unavailable				
<u>C</u> <u>r</u>	State:	ZIP: :		
tact Persons (if different than owner, above):				
SI et Address:				121,115,11
Cl.,;	State:	ZIP:		
Telephone Number,	Extension;			
F: Number	e-mail address:			
			·	
Dates of Ownership: early 1900s to	estimated 1950s	· .		

K) Other Involved Parties:

'Please photocopy and attach copies if additional parties are involved)

Double Mississis	DE
1) Environmental Consultant: David Nitchals	
Representing: Eastmont School District	
Firm: Forsgren Associates Inc.	
Street Address: 112 Olds Station Road, Suite	State: WA ZIP: 98801
City: Wenatchee	Otate, 11/1
Telephone Number: 509-667-1426	ÉXIENSION.
Fax Number: 509-663-6166	e-mail address: dnitchals@forsgen.com
	·
working hours and is authorized and qualified to all during normal business hours and has knowledge	or. (This must be a person who is on-site during normal name result the site, or a person who is available about the site and the remediations.
Name: NOT APPLICABLE	
Relation to site/owner/operator.	
Firm:	
Street Address:	State: ZIP:
City:	Otate.
Telephone Number:	Extension:
Fax Number:	e-mail address:
Dates of involvement with site:	to:
3) Name:	
Relation to site/owner/operator.	
Firm:	
Street Address:	
City:	State: ZIP:
Telephone Number:	Extension:
Fax Number:	e-mail address:
Dates of involvement with site:	to:
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4) Name:	
Relation to site/owner/operator.	
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Fax Number:	e-mail address:
Dates of involvement with site:	to:
1	





EGEND

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SURVEYED LOCATION OF SAMPLING STATION

APPROXIMITE LOCATION OF SAMPLING STATION

NOTE: SOME STAKES MARKING SAMPLING LOCATIONS WERE DESTROYED BY UNKNOWN PARTIES PRIOR TO SURVEYING.



JW	SCALE
NAWN	1"=200'
TE 5/17/01	800-106.008

EASTMONT JR. HIGH SOIL SAMPLING MAP

Fig. 2

Table 1 - Proposed Eastmont Junior High School, East Wenatchee, WA Soil Analytical Results for Arsenic and Lead

All Results in mg/kg

Sample ID	Sample Depth*	Sample Date	Arsenic	Lead
E01-S01	0.5 feet bgs	4/18/2001	71.1	149
E01-S03	1.5 feet bgs	4/18/2001	78.1	18.8
E01-S05	3.0 feet bgs	4/18/2001	70.6	52.5
E02-S01	0.5 feet bgs	4/18/2001	532	1660
E02-S03	1.5 feet bgs	4/18/2001	117	22.2
E02-S05	3.0 feet bgs	4/18/2001	6.04	10.0
E03-S01	0.5 feet bgs	4/18/2001	493	1550
E03-S03	1.5 feet bgs	4/18/2001	129	111
E03-S05	3.0 feet bgs	4/18/2001	60.5	7.4
E03-S07	5.0 feet bgs	4/18/2001	15.0	30.6
E04-S01	0.5 feet bgs	4/18/2001	144	241
E04-S03	1.5 feet bgs	4/18/2001	73.1	8.7
E04-S05	3.0 feet bgs	4/18/2001	4.01	7.2
E05-S01	0.5 feet bgs	4/18/2001	52.2	11.6
E05-S03	1.5 feet bgs	4/18/2001	5.55	10.8
E05-S05	3.0 feet bgs	4/18/2001	3.75	6.3
E05-S07	5.0 feet bgs	4/18/2001	2.96	7.0
E06-S01	0.5 feet bgs	4/18/2001	55.4	8.0
E06-S03	1.5 feet bgs	4/18/2001	41.8	3.4
E06-S05	3.0 feet bgs	4/18/2001	2.45	3.2
E06-S07	5.0 feet bgs	4/18/2001	<1.66	3.8
E07-S01	0.5 feet bgs	4/18/2001	119	323
E07-S03	1.5 feet bgs	4/18/2001	83.52	5.8
E07-S05	3.0 feet bgs	4/18/2001	6.257	6.1
E08-S01	0.5 feet bgs	4/18/2001	93.02	475
E08-S03	1.5 feet bgs	4/18/2001	6.294	7.6
E08-S05	3.0 feet bgs	4/18/2001	47.94	82.3
E09-S01	0.5 feet bgs	4/18/2001	128.2	67.3
E09-S03	1.5 feet bgs	4/18/2001	5.230	8.2
E09-S05	3.0 feet bgs	4/18/2001	18.99	71.1
-E10-S01	0.5 feet bgs	4/18/2001	78.28	626
E10-S03	1.5 feet bgs	4/18/2001	38.01	5.5
E10-S05	3.0 feet bgs	4/18/2001	15.28	4.9
E11-S01	0.5 feet bgs	4/19/2001	104.1	58.3
E11-S03	1.5 feet bgs	4/19/2001	66.83	9.2
E11-S05	3.0 feet bgs	4/19/2001	65.61	115
E12-S02	0.5 feet bgs	4/19/2001	74,86	12.6
E12-S04	1.5 feet bgs	4/19/2001	69.56	5.4
E12-S06	3.0 feet bgs	4/19/2001	18.67	4.1
E13-S01	0.5 feet bgs	4/19/2001	85.04	50.4
E13-S03	1.5 feet bgs	4/19/2001	51.27	115
E13-S05	3.0 feet bgs	4/19/2001	75.75	343
E14-S01	0.5 feet bgs	4/19/2001	92.00	204
	1.5 feet bgs	4/19/2001	26.18	5.7
E14-S03	3.0 feet bgs	4/19/2001	<2.89	5.3
E14-S05	0.5 feet bgs	4/18/2001	212.8	470
E15-S01	1.5 feet bgs	4/18/2001	83.33	12.7
E15-S03	3.0 feet bgs	4/18/2001	<2.927	5.2
E15-S05	5.0 feet bgs	4/18/2001	<2.838	4.7
E15-S07	5.0 feet bgs	4/10/2001	72.000	719

Table 1
Proposed Eastmont Junior High School, East Wenatchee, WA
Soil Analytical Results for Arsenic and Lead
All Results in mg/kg

0	Camala Don#*	Sample Date	Arsenic	Lead
Sample ID	Sample Depth*	4/19/2001	not avail.	not avail.
E16-S01	0.5 feet bgs	4/19/2001	not avail.	not avail.
E16-S03	1.5 feet bgs	4/19/2001	77.70	153
E16-S05	3.0 feet bgs	4/19/2001	75.47	141
E17-S01	0.5 feet bgs		73.26	8.5
E17-S03	1.5 feet bgs	4/19/2001		17.4
E17-S05	3.0 feet bgs	4/19/2001	43.51	744
E18-S01	0.5 feet bgs	4/19/2001	115.6	6.2
E18-S03	1.5 feet bgs	4/19/2001	74.28	11.0
E18-S05	3.0 feet bgs	4/19/2001	31.08	
E19-S01	0.5 feet bgs	4/18/2001	69.28	9.6
E19-S03	1.5 feet bgs	4/18/2001	82.25	175
E19-S05	3.0 feet bgs	4/18/2001	87.86	302
E20-S01	0.5 feet bgs	4/18/2001	222.9	983
E20-S03	1.5 feet bgs	4/18/2001	57.86	8.2
E20-S05	3.0 feet bgs	4/18/2001	47.18	4.6
E20-S07	5.0 feet bgs	4/18/2001	<2.998	5.2
E21-S01	0.5 feet bgs	4/18/2001	121.1	1030
E21-S03	1.5 feet bgs	4/18/2001	69.52	23.3
E21-S05	3.0 feet bgs	4/18/2001	91.33	187
E22-S01	0,5 feet bgs	4/19/2001	49.72	38.5
E22-S03	1.5 feet bgs	4/19/2001	64.10	16.9
E22-S05	3.0 feet bgs	4/19/2001	36.12	22.1
E22-S07	5.0 feet bgs	4/19/2001	35.16	99.1
E23-S01	0.5 feet bgs	4/18/2001	115.6	101
E23-S03	1.5 feet bgs	4/18/2001	18.65	10.0
E23-S05	3.0 feet bgs	4/18/2001	5.577	25.1
E24-S01	0.5 feet bgs	4/18/2001	405.3	1430
E24-S03	1.5 feet bgs	4/18/2001	75.06	24.9
E24-S05	3.0 feet bgs	4/18/2001	<2.834	5.6
E24-S07	5.0 feet bgs	4/18/2001	;<2.825	4.6
- E25-S01	0.5 feet bgs	4/19/2001	262	1080
E25-S03	2.5 feet bgs	4/19/2001	11.9	9.2
E25-S07	5.0 feet bgs	4/19/2001	46.99	117
E26-S01	0.5 feet bgs	4/19/2001	2.766	5.9
E26-S03	2.5 feet bgs	4/19/2001	4.722	13.2
E26-S07	4.0 feet bgs	4/19/2001	12.21	41.3
E27-S01	0.5 feet bgs	4/18/2001	119	13.3
E27-S03	2.5 feet bgs	4/18/2001	78.8	5.1
E27-S07	3.2 feet bgs	4/18/2001	71.90	92.0
E28-S03	2.5 feet bgs -	4/20/2001	106.5	174
E28-S07	5.0 feet bgs	4/20/2001	26.52	2.8
E31-S01	1.5 feet bgs	4/18/2001	35.27	6.0
E31-S03	5.0 feet bgs	4/18/2001	15.32	34.3
E32-S01	1.5 feet bgs	4/18/2001	19.16	6.7
E32-S03	5.0 feet bgs	4/18/2001	3.257	13.7
	*Comple don't is			

^{*}Sample depth in feet below ground surface

Samples were analyzed in accordance with SW 846 method 6010.

Some arsenic results were determined using SW846 method 7060 due to problems with the ICP instrument.



Table 2 Proposed Eastmont Junior High School, East Wenatchee, WA Soil Analytical Results for RCRA Metals All Results in mg/kg

6	Sample	Sample Date				8.RCR	A Metals			
Sample ID	Depth*	Dample Date	As	Ва	Cd	Cr	₽b	Нg	Se	Ag
E06-S01	0.5	4/18/2001	55.4	79.4	<0.32	9.47	8.0	<0.016	<2.67	<0.13
E06-S03	1,5	4/18/2001	41.8	68.8	<0.32	9.84	3,4	<0.0161	<2.68	<0.13
E25-S01	0.5	4/19/2001	262	98.8	<0.35	11.7	1080	<0.0174	<2.91	<0.15
E25-S03	2.5	4/19/2001	11.9	106	<0.34	16.2	9.2	<0.0169	<2.81	<0.14
E27-S01	0.5	4/18/2001	119	78.2	0.32	9.41	13.3	<0.0161	<2.68	<0.13
E27-S03	2.5	4/18/2001	78.8	117	<0.35	16.5	5.1	<0.0175	<2.92	<0.15

^{*}Sample Depth in feet below ground surface

As-Arsenic, Ba-Barium, Cd-Cadmium, Cr-Chromium, Pb-Lead, Hg-Mercury

Se-Selenium, Ag-Silver

Samples were analyzed in accordance with SW846: 7060, 6010, 7471, or 7740 as appropriate.

Table 3 Proposed Eastmont Junior High School, East Wenatchee, WA Soil Analytical Results for Organochlorine Pesticides All Results in ug/kg

								<i>₹</i> 3	See Vine 6 in
Sample ID	Sample Depth*	Sample Date	מסם	DDE	DDT	beta- BHC	Dieldrin	Endo- sulfan II	Additional Organochlorine Pesticide Detections
E02-S01	0.5	4/18/2001	<0.13	1200	9200	<0.21	<0.23		gamma BHC=0.52
E02-S03	1.5	4/18/2001	<0.12	13	28	4.1	<0.25	<0.31	none
E04-S01	0.5	4/18/2001	<0.12	21	4.1-	<0.21	<0.23	<0.28	none
E04-S03	1.5	4/18/2001	<0.13	2	0.96	<0.21	<0.23	<0.28	none
E04-S05	3	4/18/2001	<0.13	<0.15	<0.19	<0.21	<0.23	<0.28	none
E06-S01	0.5	4/18/2001	<0.12	66.0	9.2	<0.21	<0.23	<0.28	none
E06-S03	1.5	4/18/2001	<0.12	5.9	1.2	<0.21	<0.23	<0.28	none
E07-S01	0.5	4/18/2001	<0.13	130	280	<0.21	<0.23	<0.28	alpha BHC=0:79, gamm BHC=0.37
E10-S01	0.5	4/18/2001	<0.14	220	38	<0.26	0.51	<0.34	попе
E14-S01	0.5	4/19/2001	2.8	45	42	0.5	<0.27	<0.33	попе
E16-S01	0.5	4/19/2001	<0.13	150	120	<0.25	0.91	2.4	none
E16-S03	1.5	4/19/2001	<0.13	220	180	<0.25	1.1	1.6	none
E19-S01	0.5	4/18/2001	<0.13	130	20	<0.24	<0.26	0.86	none
E19-S03	1.5	4/18/2001	<0.12	220	320	<0.24	<0.25	<0.31	none
E19-S05	3.0	4/18/2001	<0.12	410	620	<0.23	<0.25	1.8	none
E21-S01	0.5	4/18/2001	<0.12	110	100	<0.24	6.9	<0.31	none
E24-S01	0.5	4/18/2001	<0.13	560	870	<0.24	<0.26	3.1	none
E25-S01	0.5	4/19/2001	110	550	4800	<4.5	<4.8	<5.9	alpha BHC=3
E25-S03	2.5	4/19/2001	<0.11	0.83	5.2	<0.21	<0.23	<0.28	none
E26-S01	0.5	4/19/2001	<0.12	8.8	1.2	0.38	<0.26	<0.31	alpha BHC=2:1; gammaBHC=0:25
_E26-S03	2.5	4/19/2001	<0.12	1	<0.18	<0.24	<0.25	<0.31	none
E27-S01	0.5	4/18/2001	1.3	28	27	2.8	<0.26	<0.31	none
E27-S03	2.5	4/18/2001	<0.13	1.6	1.8	7.7	<0.26	<0.16	none
E28-S03	2.5	4/20/2001	<0.13	27	35	8	<0.27		alpha BHC=0.25
E28-S07	5.0	4/20/2001	<0.12	<0.15	<0.18	1.8	<0.26	<0.31	none
E31-S01	1.5	4/18/2001	<0.13	5.2	28	<0,25	2.3	<0.32	Endosulfan sulfate=2.8
E31-S03	5.0	4/18/2001	<0.13	20	160	<0.25	20	3.7	none
E32-S01	1.5	4/18/2001	<0.13	3.1	1.8	<0.24	<0.25	<0.31	none

<0.21

<0.23

<0.28 none

--*Depth in feet below ground surface

E32-S03

4/18/2001

Samples were analyzed using USEPA Method 8081A.

Table 4 Eastmont Junior High School, East Wenatchee, WA Soil Analytical Results for Organophosphorus Pesticides and Chlorinated Herbicides

All Results in ug/kg

				A
Sample ID	Sample Depth*	Sample Date	Organophosphorus Pesticides	Chlorinated Herbicides
E06-S01	0.5	4/18/2001	ND	· ND
E06-S03	1.5	4/18/2001	/ ND	ND
E25-S01	0.5	4/19/2001	./ ND	/ ND
E25-S03	2.5	4/19/2001	ND	ND
E27-S01	0.5	4/18/2001	ND	ND
E27-S03	2.5	4/18/2001	ND	ND
E31-S01	1.5	4/18/2001	ND	ND
E31-S03	5.0	4/18/2001	ND	ND
E32-S01	1.5	4/18/2001	ND	ND
E32-S03	5.0	4/18/2001	ND	ND

*Sample depth in feet below ground surface.

Organophosphorus Pesticides were measured using USEPA Method 8141 GC/MS Modified. Chlorinated Herbicides were measured using USEPA Method 8151 BD/MS Modified.

APPENDIX B SAMPLING AND ANALYSIS WORKPLAN

SAMPLING AND ANALYSIS WORKPLAN

For

Proposed Eastmont Junior High School

East Wenatchee, Washington

April, 2001

For: Eastmont School District 460 Ninth Avenue NE East Wenatchee, WA 98802

Prepared by:
FORSGREN ASSOCIATES
112 OLDS STATION ROAD, SUITE A
WENATCHEE, WA 98801
PROJECT #800-106.008

1.0 Introduction

This Site Assessment Sampling and Analysis Workplan is for the proposed Eastmont Junior High School located in Wenatchee, Washington (Figure 1). The property is approximately 36 acres and its previous site use was an apple orchard. The purpose of this plant is to identify the scope objectives, methods, and schedule of field activities associated with the project. The workplan is organized into 5 sections which include site background, project description, sampling and analysis, quality assurance/quality control procedures, and schedule.

2.0 Site Background

The Subject Property consists of a 36 acre parcel of land that is rectangular in shape. It has been used for apple orchard for many decades. The apple trees no longer exist on the property. Historically, pesticides were most likely applied to the Subject Property. The property is bordered to the north by 10th Street Northeast, to the south by 8th Street Northeast, to the east by North Iowa Avenue, and to the west by North Grover Avenue.

Potential environmental issues identified at the site are based on available information regarding past agricultural activities and assume that agricultural chemicals were used at the site. Residual concentrations of agricultural chemicals in surface soils might pose a potential health risk via ingestion, dermal contact and inhalation exposure pathways

Ingestion of groundwater was not considered a complete exposure pathway because personnel working at the site would not drink water from sources below the property and there is no indication of groundwater impacts. Surface water was not identified at the Subject Property and therefore is not considered a complete exposure pathway. Ingestion of vegetation and animals was not considered a complete exposure pathway because of the proposed use of the site.

3.0 Sampling and Analysis

Proposed sample locations are presented on Figure 3-1. The sampling frequency and laboratory analysis were based on the size of the property (36 acres); the assumption is that the property's former agricultural use as an apple orchard resulted in a dispersed application of agricultural chemicals. The total number of samples and depth of each sample are presented in Table 3-1. The sampling plan below will be modified in the field as necessary based on conditions encountered.

Discrete soil samples will be collected from the surface to a depth of 0.5 feet below ground surface (bgs), 1 to 1.5 feet bgs, and from 2.5 to 3 feet bgs at 24 grid sampling locations (E001 to E024) across the property. At nine of these locations (E's 001, 003, 005, 011, 013, 015, 020, 022, and 024) soil samples will be collected from 4.5 to 5 feet bgs.

Soil samples will be collected at depths of 0.5, 2.5, and 5 feet bgs from three locations (E025, 026, and 027) around the former pesticide batch mixing area. A soil sample from seven feet bgs will be collected at E027. Exact locations will be determined in the field.

Discrete soil samples will be collected at depths 2.5 and 5 feet bgs from three locations (E028 to E030) adjacent to underground piping that is believed to have been used for pesticide distribution in the 1920s and 1930s. Exact locations will be determined in the field.

Soil samples will be collected at depths of 1.5 and 5 feet bgs from two locations around a mobile sprayer fill station (E031 and E032). Exact locations will be determined in the field.

One soil sample will be collected adjacent to, on the downhill side of, the underground storage tank near 8th Street. The sample will be collected close to the bottom elevation of the tank.

Forsgren Associates will collect soil samples using a stainless steel trowel and hand auger. Soil sampling equipment will be decontaminated prior to each sample location and each sampling event. Soil samples will be collected in wide-mouth glass jars.

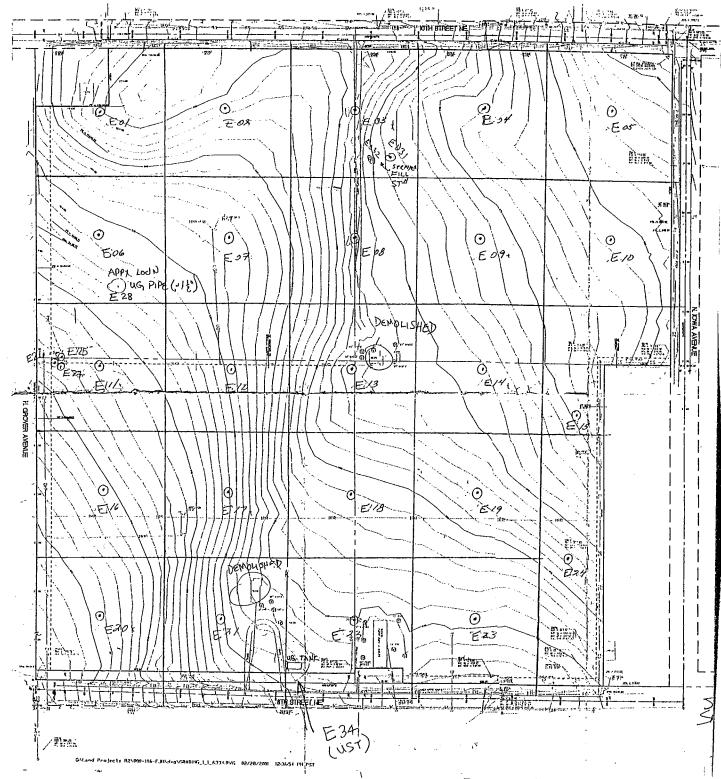
A sample label will be affixed to each sample container to identify and manage samples obtained in the field. Collected samples will be placed on ice, in a cooler, for delivery to the laboratory. Sample labels will include the project number, site name, sample identification number, sampler's initials, date and time of collection, and preservative, if any.

All equipment that comes into contact with potentially contaminated soil or water will be decontaminated as to assure the quality of samples collected. Disposable equipment intended for one time use will not be decontaminated, but will be packaged for appropriate disposal. Decontamination will occur prior to each use of a piece of equipment. All sampling devices used will be decontaminated through the following procedures:

- Liquinox detergent (or equal non-phosphate detergent) and tap water wash, in a 5-gallon plastic bucket, using a brush;
- Initial deionized/distilled water rinse, in a 5-gallon plastic bucket; and
- Final deionized/distilled water rinse in a 5-gallon plastic bucket.

Most soil samples collected will be analyzed for organochlorine pesticides by EPA Method 8081A, lead by EPA Method 6020, and arsenic by EPA Method 6020. In addition, soil samples from select locations will be analyzed for organophosphorus pesticides by Method 8141, chlorinated herbicides by Method EPA 8151A, and the eight RCRA metals by EPA Method 6010. Water samples collected for the equipment blank and field blank will be analyzed for the same parameters as the soil samples.

Chain-of-custody (COC) records will be used to document sample collection and shipment to the laboratory for analysis. COC forms will be completed and will accompany all sample shipments to each laboratory and with each shipment. If multiple coolers are sent to a single laboratory on a single day, COC form(s) will be completed and sent with the samples for each cooler. The COC record will identify the contents of each shipment and maintain the custodial integrity of the samples. Generally, a sample will be considered to be in "someone's custody" if it is either in someone's physical possession, in someone's view, locked up, or kept in a secured area that is restricted to authorized personnel. Until receipt by the laboratory, the custody of the samples will be the responsibility of the sample collector.



75.3 7

Proposed Sampling Locations

			Table 3-1 Eastmont Ju	•	•	
			Sample Identificati			1 04 /00
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample
0.5	E01-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	MS/MSD MS/MSD
1.5	E01-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E01-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E02-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
1.5	E02-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
3.0	E02-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	,
0.5	E03-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E03-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
3.0	E03-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
5.0	E03-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E04-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E04-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
3.0	E04-S05		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E05-S01	Н	Organochlorine Pesticides	8081A/3540C, 3550B	Type 1	

Table 3-1 Eastmont Junior High								
			Sample Identification			L 04/00		
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample		
			Arsenic Lead	6020/3050B 6020/3050B				
1.5	E05-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
3.0	E05-S05	H	Organochlonne Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
5.0	E05-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E06-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Type 1			
1.5	E06-S03		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Type 1			
3.0	E06-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
5.0	E06-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
0.5	E07-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E07-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E07-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E08-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E08-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			

Table 3-1 Eastmont Junior High Sample Identification List							
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample	
3.0	E08-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1		
0.5	E09-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1		
1.5	E09-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1		
3.0	E09-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1		
0.5	E10-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1		
1.5	E10-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1		
3.0	E10-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1		
0.5	E11-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1		
1.5	E11-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1		
3.0	E11-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1		
0.5	E12-S01	H	Organochlorine Pesticides Arsenic- TCLP Lead -TCLP	8081A/3540C, 3550B	Type 1		
0.5	E12-S02		Arsenic Lead	6020/3050B 6020/3050B	Type 1		
1.5	E12-S03	Н	Organochlorine Pesticides Arsenic- TCLP Lead -TCLP	8081A/3540C, 3550B	Type 1		
1.5	E12-S04	,	Arsenic	6020/3050B	Type 1		

			Table 3-1 Eastmont]	unior High	.:	
			Sample Identificat			
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample
			Lead	6020/3050B		
3.0	E12-S05	Н	Organochlorine Pesticides Arsenic- TCLP Lead -TCLP	8081A/3540C, 3550B	Type 1	
3.0	E12-S06		Arsenic Lead	6020/3050B 6020/3050B	Type 1	
0.5	E13-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E13-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E13-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E14-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	FD FA041901
1.5	E14-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E14-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E15-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E15-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	4
3.0	E15-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E15-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E16-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	

	Table 3-1 Eastmont Junior High Sample Identification List							
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample		
1.5	E16-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E16-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E17-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E17S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E17-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
0.5	E18-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E18-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E18-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
0.5	E19-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E19-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E19-S05		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
0.5	E20-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E20-S03	Н	Organochlorine Pesticides Arsenic	8081A/3540C, 3550B 6020/3050B	Type 1			

	Table 3-1 Eastmont Junior High Sample Identification List							
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample		
			Lead	6020/3050B				
3.0	E20-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
5.0	E20-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E21-S01	-	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E21-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E21-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E22-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E22-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E22-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
5.0	E22-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E23-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
1.5	E23-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E23-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E24-S01		Organochlorine Pesticides	8081A/3540C, 3550B	Type 1			

Table 3-1 Eastmont Junior High Sample Identification List								
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample		
			Arsenic Lead	6020/3050B 6020/3050B				
1.5	E24-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E24-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
5.0	E24-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E25-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Type 1			
2.5	E25-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
5.0	E25-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E26-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
2.5	E26-S03	-	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
5.0	E26-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E27-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Type 1			
2.5	E27-S03		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Type 1			
3.15	E27-S07	H	Organochlorine Pesticides	8081A/3540C, 3550B	Type 1			

Table 3-1 Eastmont Junior High Sample Identification List								
			Arsenic , Lead	6020/3050B 6020/3050B				
2.5	E28-S03	-	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
5.0	E28-S07		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E31-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides Arsenic Lead	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6020/3050B	Type 1			
5.0	E31-S03		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides Arsenic Lead	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6020/3050B	Type 1			
1.5	E32-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides Arsenic Lead	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6020/3050B	Type 1			
5.0	E32-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
5.5	E34		TPH-HCID	8015M	Type 1			

Notes:

Type 1 container: 250 ml widemouth glass or 2 x 6-inch stainless steel sleeve.

Samples will not be preserved in the field other than keeping them in a cooler with ice; it is not necessary for our analyses.

Depending on field observations, additional soil samples may be collected.

Abbreviations:

MS/MSD

matrix spike/matrix spike duplicate

FD

Field Duplicate (a.k.a. QC duplicate)

The 8 RCRA metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver

4.0 Quality Assurance/Quality Control Procedures

These QA/QC procedures are to be employed in both the field and the laboratory. QA/QC samples include the collection of equipment rinsate samples, field blank samples, and blind duplicate samples.

4.1 Field QA/QC Procedures

Field QA/QC procedures will be performed at the site and consist of the following measures:

- Chain of Custody forms will be completed and will accompany samples submitted to the laboratory.
- Daily information regarding soil sample collection will be recorded in Field Logbooks. Sample types, soil descriptions, sample identification numbers, and sample times will be collected and recorded on Field Data Sheets and in the Field Logbooks. Pages will be numbered, dated, and signed by the person performing data entry.

Field QA/QC samples will be collected and submitted for analysis along with the discrete soil samples using the following sampling frequency:

- Equipment blanks One equipment rinsate blank
- Field blanks One field blank sample
- Field duplicates —One composite/discrete surface soil sample split by the laboratory and analyzed as a duplicate soil sample for the corresponding analysis.

4.1.1 Equipment Rinsate Blank

An equipment rinsate blank (equipment blank) will be collected from the final water rinsed over equipment after cleaning activities have been performed. The equipment blank will be collected from non-dedicated (reusable) sampling equipment. The equipment blank sample will be collected by carefully pouring distilled water over or through the recently cleaned equipment, directly into an appropriated sample container held over a bucket. It will be preserved and processed in the same manner as all other samples and will be analyzed by the same analytical methods as for soil samples.

4.1.2 Field Blank

The field blank sample will consist of a sample of the tap water that was mixed with soap to wash sampling equipment during equipment cleaning activities. The purpose of the field blank sample is to evaluate the tap water for compounds analyzed for in the soil samples. The field blank sample will be collected by pouring tap water into the appropriate sample container. The field blank sample will be preserved and processed in the same manner as all other samples.

4.1.3 Field Duplicate Sample

Duplicate soil sample(s) will be analyzed in order to evaluate the analytical procedures and methods employed by the laboratory. The field duplicate samples will be selected from the original soil samples and split by the laboratory.

4.2 Laboratory QA/QC Procedures

Laboratory QA/QC procedures include the following:

- Laboratory analyses will be performed within the required holding time for all samples;
- Appropriate minimum reporting limits (RLs) will be used for each analysis;
- A state-certified testing laboratory will conduct the required analyses; and
- The laboratory will report the following information for each sample:
 - Method blank data;
 - Surrogate recovery and calibration data; and
 - Signed laboratory reports including the sample designation, date of sample collection, date of sample analysis, laboratory analytical method employed, sample volume, and the minimum RL.

Forsgren Associates proposes to utilize Cascade Analytical located in Wenatchee, Washington, to provide chemical analysis of collected samples. Cascade Analytical is a state-certified environmental testing laboratory for all proposed sample analysis.

5.0 Data Evaluation

A Site Assessment/Remedial Action report will be prepared and submitted to the Department of Ecology. The report will be prepared in accordance with guidance provided by the Department of Ecology, Voluntary Cleanup Program. The report will describe the background of the site, soil sampling procedures, results of the laboratory analyses, potential areas of contamination, and the proposed remedial approach.

6.0 Schedule

Field activities will most likely require approximately four to five days to complete. Following receipt of the analytical data from the laboratory, the Site Assessment/Remedial Action Report will be prepared.

APPENDIX C SAMPLE IDENTIFICATION LIST

			Table 3-1 Eastmont			
			Sample Identifica		J*	
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample
0.5	E01-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	MS/MSD MS/MSD
1.5	E01-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E01-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E02-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
1.5	E02-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E02-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E03-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E03-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E03-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E03-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E04-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E04-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E04-S05		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E05-S01	Н	Organochlorine Pesticides	8081A/3540C, 3550B	Type 1	

			Table 3-1 Eastmont Jun			
			Sample Identificatio			
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample
			Arsenic Lead	6020/3050B 6020/3050B		
1.5	E05-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E05-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E05-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
0.5	E06-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Type 1	
1.5	E06-S03		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Туре 1	
3.0	E06-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
5.0	E06-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E07-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E07-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E07-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E08-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E08-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	

Table 3-1 Eastmont Junior High								
	· · · · · · · · · · · · · · · · · · ·		Sample Identificat			T 0 1 100		
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample		
3.0	E08-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
0.5	E09-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
1.5	E09-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
3.0	E09-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
0.5	E10-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
1.5	E10-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
3.0	E10-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E11-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1			
1.5	E11-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
3.0	E11-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1			
0.5	E12-S01	H	Organochlorine Pesticides Arsenic- TCLP Lead -TCLP	8081A/3540C, 3550B	Type 1			
0.5	E12-S02		Arsenic Lead	6020/3050B 6020/3050B	Type 1			
1.5	E12-S03	Н	Organochlorine Pesticides Arsenic- TCLP Lead -TCLP	8081A/3540C, 3550B	Type 1			
1.5	E12-S04		Arsenic	6020/3050B	Type 1			

			Table 3-1 Eastmont	_		
			Sample Identificat			
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample
			Lead	6020/3050B		
3.0	E12-S05	Н	Organochlorine Pesticides Arsenic- TCLP Lead -TCLP	8081A/3540C, 3550B	Type 1	
3.0	E12-S06		Arsenic Lead	6020/3050B 6020/3050B	Type 1	
0.5	E13-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E13-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E13-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E14-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	FD FA041901
1.5	E14-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
3.0	E14-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E15-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E15-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E15-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E15-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E16-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	

			Table 3-1 Eastmont			
Depth		Analyze	Sample Identifica	Analytical Method/	Cantaina	QA/QC
(ft)	Sample ID	(Blank), or Hold (H)	Analyte	Preparation Method	Container	Sample
1.5	E16-S03	-	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E16-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E17-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
1.5	E17S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E17-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E18-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E18-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E18-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	-
0.5	E19-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E19-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E19-S05		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E20-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E20-S03	Н	Organochlorine Pesticides Arsenic	8081A/3540C, 3550B 6020/3050B	Type 1	

			Table 3-1 Eastmont Sample Identifica			
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample
			Lead	6020/3050B		
3.0	E20-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
5.0	E20-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E21-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
1.5	E21-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
3.0	E21-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
0.5	D.5 E22-S01 H		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E22-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	v 2
3.0	E22-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
5.0	E22-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E23-S01	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
1.5	1.5 E23-S03 H		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E23-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E24-S01		Organochlorine Pesticides	8081A/3540C, 3550B	Type 1	

			Table 3-1 Eastmont Ju			
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Sample Identification Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample
			Arsenic Lead	6020/3050B 6020/3050B		
1.5	E24-S03	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E24-S05	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
5.0	E24-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
0.5	E25-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Туре 1	
2.5	E25-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
5.0	E25-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
0.5	E26-S01		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
2.5	E26-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E26-S07	Н	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
0.5	E27-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Type 1	
2.5	E27-S03		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides (8) RCRA Metals (incl As, Pb)	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6010/3050B	Type 1	
3.15	E27-S07	Н	Organochlorine Pesticides	8081A/3540C, 3550B	Type 1	<u> </u>

			Table 3-1 Eastmont Ju			
			Sample Identification	on List		
Depth (ft)	Sample ID	Analyze (Blank), or Hold (H)	Analyte	Analytical Method/ Preparation Method	Container	QA/QC Sample
			Arsenic Lead	6020/3050B 6020/3050B		
2.5	E28-S03	1	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E28-S07		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E31-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides Arsenic Lead	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6020/3050B	Type 1	
5.0	E31-S03		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides Arsenic Lead	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6020/3050B	Туре 1	
1.5	E32-S01		Organochlorine Pesticides Organophosphorus Pesticides Chlorinated Herbicides Arsenic Lead	8081A/3540C, 3550B 8141/3540C, 3550B 8151A/3540C, 3550B 6020/3050B	Type 1	
5.0	E32-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Туре 1	
5.5	E34		TPH-HCID	8015M	Type 1	

Notes

Type 1 container: 250 ml widemouth glass or 2 x 6-inch stainless steel sleeve.

Samples will not be preserved in the field other than keeping them in a cooler with ice; it is not necessary for our analyses.

Depending on field observations, additional soil samples may be collected.

Abbreviations:

MS/MSD

matrix spike/matrix spike duplicate

FD Field Duplicate (a.k.a. QC duplicate)

The 8 RCRA metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver

APPENDIX D CHAIN OF CUSTODY FORMS

Anatek	#u-co-n	は、一般の変化を	Turn Around Time & Reporting	Results needed by:	Znd Day* Mail	*Dioce the spine of the contract	riease can to verify usin charges before submitting samples	Note Special Instructions/Comments					£01-501= MS/MSD	Hold: Hold For possiske 8081A and 15.3	82814 are by 3540c, 3550B	ķ			1		MAPR 1 9 2001/1/10		By // //		vlao Only		Labels & Chain Agree?	Sealed?				では、100mのでは、1
	9 FAX 882-9246 O	999 FAX 838-4433 O	Acls	\$ 800, 106. 008	85	gler /) m (cloumell	1503-	Requested				\	01-63345	3316	3347	3360	3360	3250	1381	MA I	3333	3354	3000	ω		Date	4/19/01 815	4790 8:15	-			
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Ĭ	S, Mach + Co. 1282 Alturas Drive, Moscow	þ	Porsaren Asseriates	5 to tien [State:	7-1426		Provide Sample Description				tion Sampling Date/Time	├ ──	Į	8511	9(9)	2501	1035	2535	6958	1005	1007	1053	1054	1055	Printed Name	Brad Ziester	LORI WISHOW				
Matek	Labs,		Company Name:	Address: 112 CIUS	Seno	Phone: 509-667-	Fax: 509-66	Provid				Lab Sample Identification	V Eol-Soi	V E01-503	V Ec1-505	1 Es. Se (1 Ess. 503	503-503	VE03-501	E-3-5-3	V E03-505	E03-507	1/ Es4-501	V E04.803	SoS		Relinquished by	Received by	Relinquished by	Received by	Relinquished by	Received by

80814, 814, 8151A prep by 3540c, 3550B Note Special Instructions/Comments ☐ Phone 99. 80814 ona 4513 Mail Fax Turn Around Time & Reporting *Please call to verify rush charges Results needed by: before submitting samples 30508 Lab Use Only DO 00551616 Labels & Chain Agree? Containers Sealed? Describe 4000 Received Intact? ☐ Next Day* ☐ 2nd Day* Hobe Hold Normal 000 0100 Anatek Log-In # 815 S 3205 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433 324 S. S. S. 3358 Archyth Col 1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246 *w* 数数 4/19/01 MINIT Date List Analyses Requested K × X X X ķ Chain of Custody Necord CAI Company XX X Project Name & #: Sampler Signature: Shipped Via/Other: Purchase Order # Project Manager: × # of Containers Matrix Signature So. F ASSOCIOHS Provide Sample Description ascale 3/0 13/51 6937 13/3 13/19 6935 Sampling Date/Time 1143 5900 Zip: 1139 1134 396° 113(0931 **SISFED** 4/18/01 Bud Zich Printed Name -05-55-RM State: Sample Identification matek FC6-505 566-507 EOS-507 E01-555 E06-503 からずる E07-503 107-501 E05-505 FOG-501 FOB-50) Fo5-503 £05-501 Relinquished by Relinquished by Relinquished by Company Name: Received by Received by Received by Address: Phone: 무 City: Fax:

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Arally (Co.) 1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246 300 4/19% 4.P.O. 3277 374 37 Date List Analyses Requested 17 CART Company X MOLD ኦ X X × X X × Project Name & #: Purchase Order #: Sampler Signature: Shipped Via/Other: V188 Project Manager: Sample Volume # of Containers Matrix 8 Signature Broggen Associates Provide Sample Description 1338 1456 1055 134 3.58 Sample Identification | Sampling Date/Time 8/18 1045 1114 72 650 CE 18 Zip: 1100 Ziegh-1/5/HOM 4118101 Printed Name State: Bral 100 J 下15-507 F15-503 **ババータグ** Ecg-505 VE10-505 F69-505 E19-503 FU9-501 E69-503 Ess-523 E15-501 F10-86 E19-50 Relinquished by Relinquished by Relinquished by Company Name: Received by Received by Received by Address: Phone: City: 2 Fax:

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3019 G.S. Center Rd. Wenatchee, WA 98801

> (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

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AGRICULTURAL & ENVIRONMENTAL ANALYSIS

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(509) 662-1888 1-800-545-4206

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3019 G.S. Center Rd. Wenatchee, WA 98801

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	1	Comp	Address:	City:	Phone:	Fax:					Lab ID	2	>	>					>			Â			7	Relin	Rece	Relin	Rece	Relin	Rece

	_															É											3/	4	
Analek Log-In#		Turn Around Time & Reporting	* Results needed by:	2nd Day* Mail	The second of th	Prease call to verify fush charges before submitting samples	Note Special Instructions/Comments				E25-501 + E25-503: 5 CAY TAT	All other somples: norm! TAT	pb, 354	6000 6000 prop 6y 2050 B	Hotel = held For passible 8081 Acretises		2002 = ADD 60	1526-50% Joy 42K 19 19K			MAPR 2 n 2001	'cal	Lab-Use-Only	Received Intact? YES NO labels & Chain Agree?	S X	Describe and the second of the	では、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、」というない。 「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、」というない。「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、」というない。「一般のでは、「一般のでは、「一般のでは、「一般のでは、」というない。「一般のでは、「一般のでは、 「一般のでは、「一般のでは、」というない。「一般のでは、「一般のでは、」」というない。「一般のでは、「一般のでは、」」というない。「一般のでは、「一般のでは、」」というない。「一般のでは、「一般のでは、」」というない。「一般のでは、「一般のでは、」」というない。「一般のでは、「一般のでは、」」というない。「一般のでは、「一般のでは、」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「一般のでは、」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」」というない。「」は、「」」というない。「」」というない。「」」というない。「」」というない。「」は、「」」というない。「」」というない。「」」というない。「」は、「」」というない。「」は、「」」というない。「」」というない。「」は、「」」というない。「」は、「」」というない。「」は、「」」というない。「」は、「」は、「」」は、「」は、「」」は、「」は、「」は、「」は、「」は、「」		Page of the second seco
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7+ce. (Chain of Custody N. v. v. d) 1282 Alturas Drive. Moscow ID 83843 (208) 883-2839 FAX 882-9246	(509) 838-3999 FAX 838-4433						List Analyses Requested	0	(17) (100) 51: (100) 51: (158) mr.	278 427 427 2578		×××	×	×	X \$^	× ×	\$ \$	× ×	,×.	×4,	\ \ \ \ \	∑ Z			CAT				
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Sauek Labs,	Inc.	Name: Tock Cax		Ó			Provide Sar					امخ	3	32-505	722-567			525-507	E210-501	~	4					hed by	by	hed by	l by
	Y	Company Name:	Address:	City:	Phone:	Fax:				Lab ID Sa	2236	7	高麗が	温馨が	る場合と	言となっ	響なか	温まり	がない。	7	12	温暖があった。	リーでは、	Relinauished by	Received by	Relinquished by	Received by	Relinquished by	Received by

ENV

CASCADE ANALYTICAL, INC.

Customer Signature

AGRICULTURAL & ENVIRONMENTAL ANALYSIS

3019 G.S. Center Rd. Wenatchee, WA 98801

> (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

SPECIAL SERVICE	ORDER	FORM
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		7	/٢	_	
	SAMPLE #	1	2	3	4
SEND RESULTS TO 1) Client 2) Billing 3) Both), 1, 1	X	X	X	
SAMPLE REPRESENTS 1) Foodl 2) Waterl 3) Soil 4) Plant Tissue 5) Other		3	2	2	
SAMPLE BY 1) Client 2) Field Rep. 3) Quality Control 4) Cascade 5) Other		1	1	1	30
		2 ¹ 27		7	

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS											
Forsgren Associates												
	LE! E	delmo	n/t									
	PHONE NO.											
SAMPLER'S Brad Zieg kr	DE DEDECTIV											
FORM MUST BE COMPLETED BEFORE ANALYSIS WILL B RELINQUISHED BY: (Signature)	BE PERFORM	DATE	RELINQUISHED BY: (Signature) 3	DATE							
(1) A/20/01												
(Printed) TIME (Printed)		TIME	(Printed)		TIME							
Bred Zierker 1400												
RECEIVED BY: (Signature) DATE RECEIVED BY: (Signature)	<i>η</i>	DATE	RECEIVED BY; (Signal	ture)	DATE 4/20/n							
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SAMPLE I.D.				Sample Date	Sample Time							
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4 ANALYSIS REQUESTED		APR	76700									
COMMENT												
Sample container received by client was sealed Ye	esN8	<u></u>										
Sample container received by laboratory was sealed Yes	es No.	.581.3										
sclaimer: ascade Analytical, Inc., makes no warranty of any kind, expressed or implied	d, and customer a	issumes a	II risk and liability from	the use of Cascad	es test results							
cascade neither assumes not authorizes any person to assume for Cascade an here are not other oral agreements or warranties collateral to or affecting this	ny other liability in	connectio	n with the testing done	by Cascade Analy	ytical, Inc., and							

Cascade Analytical, Inc.'s liability to customer as a result of customers use of Cascades's tests results shall be limited to a sum equal to the fees paid by customer to Cascade Analytical, Inc. for the testing work.

AGRICULTURAL & ENVIRONMENTAL ANALYSIS

WHITE - Submit with sample, YELLOW - Client Copy, PINK - Laboratory Copy

3019 G.S. Center Rd. Wenatchee, WA 98801

(509) 662-1888

97707

Sub-Contract ORDER FORM

CASCADE ANALYTICAL, I											
·				P.O. NO:	101553	42301					
PROJECT NAME— TOPSAIREU	¿ ASSCIATES	CONTRACT LAB SOUND ANAly- TICOL									
Joi Jane M	, dell'int	ADDRESS 5755 8 H ST CAST									
		CITY, STAT		TACONIA, ZWA	9847	<u>'</u> A					
		TELEPHON		V10-10.11							
1						حنوب منطوعات مودائوا درسياني					
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(Printed)	TIME (Printed)		TIME	(Printed)		TIME					
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Roy	930Am										
SAMPLE I.D.				Sample Date	Sample Tim	ne					
ANALYSIS REQUESTED	9 3538			Sample Date 4/20-01							
COMMENT	8015-TP+74CII	<u> </u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>						
	\$39 - (208)	A) l	Sample Date Sample								
2 ANALYSIS REQUESTED											
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4 ANALYSIS REQUESTED	TOLP AS PB										
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AGRICULTURAL & ENVIRONMENTAL ANALYSIS



3019 G.S. Center Rd. Wenatchee, WA 98801

> (509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

Sub-Contract ORDER FORM

CASCALIE ANALYTICAL, INC.	1-800-545-4206					
				P.O. NO: _	1015540	[230]
PROJECT NAME FOR SAME	ew ASOCIATES	CONTRAC	T LAB	SOUND AND	Leeri	0
	9 425-1111	ADDRESS		5755 8#	St. EAS	37
		CITY, STAT	E, ZIP	TACOMA UA	26/26	4
		TELEPHO	ΛΕ			\
		<u> </u>		1.344	,	أد واستنجو وسداد الشريب
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(Printed)	TIME (Printed)	,	TIME	(Printed)		TIME.
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Orinted)	TIME (Printed)		TIME	(Printed)	1	TIME
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COMMENT						<u>. </u>
SPECIAL INSTRUCTIONS:		·				
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AGRICULTURAL & ENVIRONMENTAL ANALYSIS



3019 G.S. Center Rd. Wenatchee, WA 98801

(509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

Sub-Contract ORDER FORM

			P.O. NO	101554	(230/
PROJECT NAME FORSQUEN LASSOC	CONTRA	CT LAB S	Dand Angli		1 25,1
	ADDRES				es a, e
	CITY, ST.	ATE, ZIP			
	TELEPH	ONE			
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4 4					<u> </u>
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COMMENT		*200	Sample 1775a	hample.Tig	nowe
SAMPLE I.D. OLE - 3570	44		Carry Sample Man		
3 ANALYSIS REQUESTED 8081 Å,	8141, 8AA		4-19-0	/ · · · · · · · · · · · · · · · · · · ·	
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	, 8191, 01011				1 3 4 3 11/13/
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AGRICULTURAL & ENVIRONMENTAL ANALYSIS



3019 G.S. Center Rd. Wenatchee, WA 98801

(509) 662-1888 Fax: (509) 662-8183 1-800-545-4206

Sub-Contract ORDER FORM

		1-000-343-4200				P.O. NO: .	101554	1/2301
PROJECT NAME FOYSAREN	7 Ac	CIATES	CONTRAC	کے	SOUN	1 /	. 1	
			ADDRESS	•				
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			TELEPHO	NE				
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4 ANALYSIS REQUESTED		2021 A	·			4/10/01		
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SPECIAL INSTRUCTIONS:								
<u>a</u>			<u></u>					
9								

APPENDIX E ANALYTICAL PROGRAM E-1 LABORATORY ANALYSIS REPORTS



(509) 662-1888

1-800-545-4206

Fax: (509) 662-8183

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Services Report Analytical

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003345 Sample Identification: E01-S01

Sample Comment: Eastmont 800.106.008

4/19/01 Date Received: Date Sampled: 4/18/01

						- 1. 전환경한 독교의 1. 선생님은 1. 선생님은 <u>1</u>	
T	st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
-		71.1	mg/Kg	8.13	SW846	7060 4/26/01	
_	ead Total Solids	149.	mg/Kg	もっさ きょくため ぬったげ ニュー	SW846 SM 254	6010 4/25/01 0-B 4/23/01	
	tal Percent Solic Total Metals Diges		% Dineat	0.01 %	SM 234		
	lotal netals biges				35 Prys		

Approved By: Author Hall

Cascade Analytical uses procedures established by EPA, AOAC; APHA, ASTM, and ATVA: Cascade Analytical makes no tarranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

1-800-545-4206

Batch: 101510

Fax: (509) 662-8183

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Services Analytical Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003346 Sample Identification: E01-S03 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800, 106, 008

	발발 등 사람들은 항공 얼마 되었다.			1884 C		
7	st Requested	Results	Units MDL	Method	Date Analyzed	Flags
4	Arsenic Solid	78.1	mg/Kg 8.37	5W846	7060 4/26/01	
1	ead Total Solids	18.8	mg/Kg 2.3	SW846	6010 4/25/01	
	otal Percent Soli		% 0.01 %		- No. 2-2的技術が存在されます。	
	Total Metals Diges	t Solid Metals Di	.gest	SW846	3050 4/23/01	

Approved By: / July / Land

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101510

Fax: (509) 662-8183

Client: Forsgren Associates Inc Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/03

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003347

Date Received: 4/19/01

Sample Identification: E01-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

			2.50				
٦	st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
1	Arsenic Solid	70.6	mg/Kg	8,23	SW846 7060	4/26/01	
-	'ead Total Solids	52.5	mg/Kg	2.3	SW846 6010	4/25/01	
	'otal Percent Solids	91.1		0.01 %	SM 2540-B	4/23/01 4/23/01	기가 기술을 받는 것이 없는 것이 없다. 기업을 보았다는 것이 없는 것이 없다. 그렇게 되었다는 것이 없는 것이 없는 것이 없다는 것이 없다. 그렇게 되었다는 것이 없는 것이 없다는 것이 없다는 것이 없다는 것이 없다면
	lotal Metals Digest S	Solid Metals D)igest		SW846 3050	4/23/01	

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWA. Cascade Analytical makes no varranty of any kind the client assumes all-risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003348 Sample Identification: E02-S01 Date Received: 4/19/01

ample identification: Eu2-5w1

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Solid	532.	mg/Kg	42.4	SW846	7060 4/26/01	
Lead Total Solids	1660	mg/Kg	2.4	SW846	6010 4/25/01	
otal Percent Solids	88.4	%	0.01 %	SM 254	- 1、大学の名との経済と発達されるとは最初によった。 - 1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1	
'otal Metals Digest Solid	Metals D:			SW846	수는 사용하다 보통하다 중에 하고 있는데 이 교육적으로 하는데	
Other Analysis	Analyzed	by SAS			4/30/01	

Approved By: Aunt I Wal

Cascade Analytical uses procedures established by EVA, AOAC, APBA, ASTM, and AVVA. Cascade Analytical makes no warranty of

any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Repor

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003349

Date Received: 4/19/01

Sample Identification: E02-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

,			Results	11-4-4	MDL	Method Date Analyzed	Flags
_	T ost Requested		nesurca	GHILES	IIDE	The chod with the back and 1,2ed	1 = 495
•	Arsenic Solid		117.	mg/Kg	16.9	SW846 7060 4/26/01	
	Lead Total Solids		22.2	mg/Kg	2.4	SW846 6010 4/25/01	
	otal Percent Solids	r Pisas	89.0	%	0.01 %	SM 2540-B 4/23/01	
	.otal Metals Digest So	olid	Metals D	igest		SW846 3050 4/23/01	
	^ther Analysis		Analyzed	by SAS		4/30/01	

Approved By: Sally Nall

Cascade Analytical uses procedures established by IPA * AOAC; APHA; ASTM, and ANVA. * Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytcial, Inc. siliability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003350

Date Received: 4/19/01

Sample Identification: E02-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

		en 1955. Grand de la companya (n. 1975).			
T st Requested	Results	Units	MDL	Method Date Analyzed	Flags
Arsenic Solid	6.04	mg/Kg	1.78	SW846 7060 4/26/01	
Lead Total Solids	10.0	mg/Kg	2.5	SW846 6010 4/25/01	
otal Percent Solids	84.4	, , , , , , , , , , , , , , , , , , ,	0.01 %	SM 2540-B 4/23/01	
.otal Metals Digest S	olid Metals I	Digest		SW846 3050 4/23/01	

Cascade Analytical uses procedures established by EVA AOAC, APHA, ASTE, and AVVA. Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, inc. seliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

1-800-545-4206

Fax: (509) 662-8183 ACC

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003351

Date Received: 4/19/01

Sample Identification: E03-S01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Regulte	Unite	וחא	Method	Date Analyzed	Flags
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
rsenic Solid	493.	mg/Kg	33.9	SW846 7060	4/26/01	
Lead Total Solids	1550	mg/Kg	2.4	SW846 6010	4/25/01	
otal Percent Soli	.ds 88.5	%	0.01 %	SM 2540-B	4/23/01	
otal Metals Diges	t Solid Metals I	Digest		SW846 3050	4/23/01	

Approved By:

Cascade Analytical uses procedures established by EPA; AOAC, APHA; ASTM, fand AVVA. Cascade Analytical makes no varranty of any kind the citest assumes all risk and liability from the use of these results a Cascade Analytical Makes no varranty of any kind the citest assumes all risk and liability from the use of these results a Cascade Analytical Makes no variants to the

mar Made

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

` '

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003352

Date Received: 4/19/01

Sample Identification: E03-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

7	rost Requested	Results	Units MDL	Method Date Analyzed	- Flans
٦	··us Requessed	The state of the s	UNICS HDL	nechod bate Analyzed	1 1aga
	arsenic Solid	129.	mg/Kg 16.8	SW846 7060 4/26/01	
	Lead Total Solids	111.	mg/Kg 2.4	SW846 6010 4/25/01	기가 되었다. 그 경기 (1992년) 기가 기가 있는 기가 있다고 있다.
-	'otal Percent Solic	is 89.1	% 0.01 %	SM 2540-B 4/23/01	
	otal Metals Digest	: Solid Metals	Digest	SW846 3050 4/23/01	

Approved By: Jan Alla

Cascade Analytical uses procedures established by EPA ADAC, APHA, ASTM, and ANVA. Cascade Analytical makes no varranty of any kind the client assumes allgrisk and liability from the use of these results. Cascade Analytical, winc. as liability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183 Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Repor

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003353 Sample Identification: E03-S05 Date Received: 4/19/01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

,	Test Requested	Regults	<u>Units</u>	MDL Metho	d Date Anal	lvzed	Flags
_							
	rsenic Solid	60.5	mg/Kg	8.37 SW846	7060 4/26/01	• • •	
	Lead Total Solids	7.4	mg/Kg	2.3 SW846	6010 4/25/01	- 1	
	otal Percent Solids	89.6	%	0.01 % SM 25	i40-B 4/23/01		
	otal Metals Digest	Solid Metals	Digest	SW846	3050 4/23/01		

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, finc is liability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade.

Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183 1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003354

Date Received: 4/19/01

Sample Identification: E03-S07

4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

	Regults	- Unito MDL	Method Date Analyzed	Flags
Test Requested	Rebuted -	- Unitu nun		
rsenic Solid	15.0	mg/Kg 3.33	SW846 7060 4/26/01	
Lead Total Solids	30.6	mg/Kg 2.3	SW846 6010 4/25/01	
'otal Percent Solids	90.0	% 0.01 %	SM 2540-B 4/23/01	
'otal Metals Digest Solid	Metals Di	igest	SW846 3050 4/23/01	

Cascade Analytical uses procedures established by ERA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical vakes no varranty of any kind the client assumes allorisk and Hability from the use of these results. Cascade Analytical, Inc. s Hiability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.

Laca II Washa



Batch: 101510 Client: Forsgren Associates Inc (509) 662-1888

Account: 197

Fax: (509) 662-8183 Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008 1-800-545-4206

Analytical Sorvices Repor

Report Date: 5/10/01

Forsgren Associates Inc. David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003355 Sample Identification: E04-S01

Sample Comment: Eastmont 800.106.008

4/19/01 Date Received: 4/18/01 Date Sampled:

Results Test Requested SW846 7060 4/26/01 16.9 144. mg/Kg rsenic Solid SW846 6010 4/25/01 2.4 Lead Total Solids mg/Kg 0.01 % SM 2540-B 4/23/01 % otal Percent Solids 88.7 Metals Digest 4/23/01 SW846 3050 'otal Metals Digest Solid 4/30/01 Analyzed by SAS Other Analysis

Cascade Analytical uses procedures established by ETA, ADAC, APHA ASTM; and AWVA: Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical makes no warranty of any kind the client assumes a result of use of Cascade a test results shall be limited to a sum equal to the fees paid by the client to Cascade



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206 PO Number: 800.106.008

<u> lytical Services Report</u>

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003356 Sample Identification: E04-S03 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Regults Test Requested SW846 7060 4/26/01 8.58 mg/Kg rsenic Solid SW846 6010 4/25/01 8.7 2.4 Lead Total Solids mg/Kg 4/23/01 0.01 % SM 2540-B "otal Percent Solids 87.4 SW846 3050 4/23/01 Metals Digest 'otal Metals Digest Solid 4/30/01 Analyzed by SAS Other Analysis

Approved By: Jawa Wash

Cascade Analytical uses procedures established by FPA, ADAC, APHA, ASTM, and AWYA; Cascade Analytical makes no varianty of any kind the client assumes all trisk and liability row the use of these results. Cascade Analytical, Inc. a liability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.

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(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206 PO Number: 800.106.008

CASCADE ANALYTICAL, INC.

nalytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003357 Sample Identification: E04-S05 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units	MDL		Method	f Date Analyzed	í Flags
rsenic Solid	4.01	 mg/Kg	1.7	 5	SW846	7060 4/26/01	
Lead Total Solids	7.2	mg/Kg	2.5		SW846	- 프로그램 시작을 가입하다 그리다는 그	
Total Percent Solids	85.6	, %	0.01	%	SM 254 SW846		
otal Metals Digest Solid other Analysis	Metals D Analzyed				3 1040	4/30/01	

Approved By: AND NOW

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWNA. Cascade Analytical makes no varranty of tany kind the client assumes allyrisk and liability from the use of these results. Cascade Analytical Makes no variability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206

PO Number: 800.106.008

Services Repor

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003358 Sample Identification: E05-S01 Date Received: 4/19/01 4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

		Results	Units -	MDI	Method	Date Analyzed	Fland
_	Test Requested	RASHI IS	units -			i jaa ilikun suudakkii ole	
•	rsenic Solid	52.2	mg/Kg	9.03	SW846	7060 4/26/01	
	Lead Total Solids	11.6	mg/Kg	2.5	SW846	6010 4/25/01	
	otal Percent Solids	s 83 . 1	%	0.01 %	SM 254	0-B 4/23/01	
	'otal Metals Digest	Solid Metals D	igest		SW846	3050 4/23/01	

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AYYA. Cascade Analytical makes no varranty of any kind the chient assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197
Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003359

Date Received:

4/19/01

Sample Identification: E05-S03

4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units	MDL Metho	d Date Analyzed	Flags
rsenic Solid	5.55	mg/Kg	1.74 SW846	7060 4/26/01	
Lead Total Solids	10.8	mg/Kg	2.4 SW846	6010 4/25/01	
Total Percent Solids	86.3	%	0.01 % SM 25	40-B 4/23/01	
otal Metals Digest		igest	SW846	3050 4/23/01	

Cascade Analytical uses procedures established by EPA (AOAC, APHA, ASTM, and AVVA.) Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade

faran han



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206

PO Number: 800.106.008

nalytical Services

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003360 Sample Identification: E05-S05 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	<u>Results</u>	Units MDL	Method Date Analyzed	Flags
<u> </u>				
rsenic Solid	3.7 5	mg/Kg 1.74	SW846 7060 4/26/01	
Lead Total Solids	6.3	mg/Kg 2.4	SW846 6010 4/25/01	
Total Percent Solids	86.4	% 0.01 %	SM 2540-B 4/23/01	
'otal Metals Digest	Solid Metals D	igest	SW846 3050 4/23/01	

Approved By: July N Malla

Cascade Analytical uses procedures established by EPA, MOAC, APHA, ASTM, and ANVA Cascade Analytical makes no farranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical inc. s liability to the

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(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206

PO Number: 800.106.008

Services Report

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003361 Sample Identification: E05-S07

4/19/01 Date Received:

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

 Test Requested	Results	Units	MDL	Method	1 Date A	nalyzed	Flags	
 rsenic Solid	2.96	mg/Kg	1.67	 SW846	7060 4/26/	/ 01		-
Lead Total Solids	7.0	mg/Kg	2.3	SW846	6010 4/25/	01		
Total Percent Solids	89.8	%	0.01 %	SM 254	10-B 4/23/	01		
otal Metals Digest Sol	lid Metals Di	igest		SW846	3050 4/23/	01		

Approved By:

Cascade Analytical uses procedures established by EFA, AOAC, APHA, ASTM, and AYVA. Cascade Analytical makes no varranty of the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. 11 ability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade

Laure March



Fax: (509) 662-8183

(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

CASCADE ANALYTICAL, INC.

Services Report lytical

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003362

Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Identification: E06-S01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units	MDL Meth	od	Date Analyzed	Flags	
rest kequested	results	OUTCB	nou neci	lou	Date Analyzed	1 Tada	
rsenic Solid	55.4	mg/Kg	8 SW84	6 7060	4/26/01	14.9	
Barium Total Solid	79.4	mg/Kg		6 6010	4/25/01		
Cadmium Total Solid	< 0.32	mg/Kg	0.32 SW84	6 6010	4/25/01		
hromium Total Solid	9.47	mg/Kg	0.24 SW84	6 6010	4/25/01		
Lead Total Solids	8.0	mg/Kg	2.2 SW84	6 6010	4/25/01		
'arcury Total Solid	< 0.016	mg/Kg	0.016 SW84	6 7471	4/25/01		
lenium Total Solid	< 2.67	mg/Kg	2.67 SW84	6 7740	4/27/01		
ver Total Solid	0.87	mg/Kg	∞ 0.13 S₩84	6 6010	5/ 7/01		
Total Percent Solids	93.8	%	0.01 % SM 2	2540-B	4/23/01		
Total Metals Digest Solid	Metals Di	gest	SW84	6 3050	4/23/01		15. Sept. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19
Other Analysis	Analzyed	by SAS			4/30/01		

Cascade Analytical uses procedures established by EPA, AOAC, APBA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, inc. saliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade.

MAN MAN



(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008 1-800-545-4206

CASCADE ANALYTICAL, INC.

Services

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003363

Date Received: 4/19/01

Sample Identification: E06-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic Solid	41.8	mg/Kg	8.04	SW846 7060	4/26/01	
Barium Total Solid	68.8	mg/Kg	and the second of the second	SW846 6010	4/25/01	
Cadmium Total Solid	< 0.32	mg/Kg	and the same of th	SW846 6010	4/25/01	
hromium Total Solid	9.84	mg/Kg	0.24	SW846 6010	4/25/01	
Lead Total Solids	3.4	mg/Kg	2.3	SW846 6010	4/25/01	
rcury Total Solid	< 0.0161	. mg/Kg	0.0161	SW846 7471	4/25/01	
lenium Total Solid	< 2.68	mg/Kg	2.68	SW846 7740	4/27/01	
ver Total Solid	0.87	mg/Kg	0.13	SW846 6010	5/,7/01	
Total Percent Solids	93.3	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals I)igest		SW846 3050	4/23/01	
ther Analysis	Analyzed	d by SAS			4/30/01	

Cascade Analytical uses procedures established by EPA ADAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. is liability to the client as a result of use of Cascade s test results shall be limited to a sum equal to the fees paid by the client to Cascade



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

<u> Analytical Services Report</u>

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003364 Sample Identification: E06-S05 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

그들었다는 그림 생생이 한 방법을 하는 하는 전상이 하는 사람들은 얼굴을 하는 그는 그는 그를 하는 것이 그렇게 하는데 하는데 그를 하는데 그를 하는데 수없다고 있다. 그는 그를 하는데 그를 하는데	
Test Requested Results Units MDL Method Date Analyzed	Flags
rsenic Solid 2.45 mg/Kg 1.64 SW846 7060 4/26/01	
Lead Total Solids 3.2 mg/Kg 2.3 SW846 6010 4/25/01	
Total Percent Solids 91.6 % 0.01 % SM 2540-B 4/24/01	
'otal Metals Digest Solid Metals Digest SW846 3050 4/23/01	

Approved By: Was I Was

Cascade Analytical uses procedures established by EPA ADAC, APHA ASTM, and AVVA. Cascade Analytical wakes no varranty of EPA and the client assumes all risk and liability from the use of these results. Cascade Analytical Pinc as Hability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade.

Analytical, Inc. for analysis.



Fax: (509) 662-8183

(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008 1-800-545-4206

CASEADE ANALYTICAL, INC.

Analytical Services Report

> 5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003365 Sample Identification: E06-S07

4/19/01 Date Received: 4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units	MDL Method Date Analyzed	Flags
rsenic Solid	< 1.66	mg/Kg		
Lead Total Solids Total Percent Solids	3.8 90.4	mg/Kg %	2.3 SW846 6010 4/25/01 0.01 % SM 2540-B 4/24/01	
otal Metals Digest Solid	Metals Di	igest	SW846 3050 4/23/01	

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical sakes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, find saliability to the client as a result of use of Cascade stest results shall be Finited to a sum equal to the fees paid by the client to Cascade.

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Fax: (509) 662-8183

(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

CASCADE ANALYTICAL, INC.

Services Analytical Report

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003366 Sample Identification: E07-S01 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units MDL	Method Date Analyzed	Flags
rsenic Solid	119.	mg/Kg 16.7	SW846 7060 4/26/01	
Lead Total Solids	323.	mg/Kg 2.3	SW846 6010 4/25/01	
Total Percent Solids	89.7	% 0.01 %	SM 2540-B 4/24/01	
otal Metals Digest So	olid Metals D	igest	SW846 3050 4/23/01	
other Analysis	Analyzed	by SAS	4/30/01	

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical Anc. a liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade

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(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell PO Number: 800.106.008

CASCADE ANALYTICAL, INC.

Services Analytical

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003367 Sample Identification: E07-S03 Date Received: 4/19/01

4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

Test Requested	Result	s Units M	Method	d Date Analyzed	Flags
rsenic Total Solid	83.52	, , , , , , , , , , , , , , , , , , , ,		6010 4/27/01	
Lead Total Solids Total Percent Solid	5.8 89.8	mg/Kg % 0		6010 4/27/01 40-B 4/24/01	
otal Metals Digest		Bigest	SW846	3050 4/25/01	

Approved By: Junto W

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of sany kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. sliability to the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. sliability to the client assume equal to the fees paid by the client to cascade client assume equal to the fees paid by the client to cascade.



Fax: (509) 662-8183

(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008 1-800-545-4206

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003368

Date Received: 4/19/01

Sample Identification: E07-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units MDL	Method Date Analyzed	Flags
rsenic Total Sol	id 6.257	mg/Kg 2.844	SW846 6010 4/27/01	
Lead Total Solids	6.1	mg/Kg 2.4	SW846 6010 4/27/01	
"otal Percent Sol	ids 87.9	% 0.01 %	SM 2540-B 4/24/01	
otal Metals Dige	st Solid Metals D	igest	SW846 3050 /4/25/01	

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC APBA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the cirent assumes all risk and liability from the use of these results. Cascade Analytical, inc. is liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the lees paid by the client to Cascade.



(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206

PO Number: 800.106.008

Services Report Analytical

> Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003369

Date Received: 4/19/01

Sample Identification: E08-S01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units MDL Method Date Analyzed	Flags
rsenic Total Solid	93.02	mg/Kg 3.06 SW846 6010 4/27/01	
Lead Total Solids	475.	mg/Kg 2.6 SW846 6010 4/27/01	
Total Percent Solids	81.7	% 0.01 % SM 2540-B 4/24/01	
otal Metals Digest S	olid Metals I	Digest SW846 3050 4/25/01	

Approved By: Lauran Man

Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AWYA. Cascade Analytical makes no varranty of any kind the civent assumes all risk and liability from the use of these results. Cascade Analytical, Inc. siliability to the

clientsas as result of use of Cascade stest results shall be limited to a sum equal to the fees paid by the client to Cascade



(509) 662-1888

Batch: 101510

Client: Foregren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206

PO Number: 800.106.008

Analytical Services

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003370 Sample Identification: E08-S03 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units MDL	Method Date Analyzed	Flags
rsenic Total Solid	6.294	mg/Kg 2.9	SW846 6010 4/27/01	
Lead Total Solids	7.6	mg/Kg 2.4	SW846 6010 4/27/01	
"otal Percent Solids	86.2	% 0.01 %	SM 2540-B 4/24/01	
'otal Metals Digest Soli	d Metals D	igest	SW846 3050 4/25/01	

Approved By: Jung W

Cascade Analytical uses procedures established by EPA, ADAC; APHA; ASTM, and AWWA. Cascade Analytical makes no warranty of s Cany kind the Client assumes all risk and liability from the use of these results. Cascade Analytical line silability to the Client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

CASCADE ANALYTICAL, INC.

Services Analytical Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003371 Sample Identification: E08-S05 Date Received: 4/19/01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units	MDL Me	ethod Date Analyzed	Flags
rsenic Total Solid	47,94	ma/Ka	2. 787 SI	W846 6010 4/27/01	
Lead Total Solids	82.3	mg/Kg		W846 6010 4/27/01	
Total Percent Solids	89 . 7	%		M 2540-B 4/24/01	
otal Metals Digest Soli	id Metals Di	igest	S'	W846 3050 4/25/01	

Approyed By:

Cascade Analytical uses procedures established by EPA, AOAC; APHA, ASTM, and AWWA. Cascade Analytical makes no warranty of any kind the client assumes all risk and liability kow the use of these results. Cascade Analytical, Inc. seliability to the clientlas:a/result.of/userof/Cascade/s/test/results/shall/be/limited/to-a/sum/equal-to-the-fees-paid-by-the-client-to-Cascade



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Account: 197 Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

> 5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003372 Sample Identification: E09-S01 Date Received: 4/19/01

4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

Test Requested	Results	Units MDL	Method Date Analyzed	Flags
rsenic Total Solid	128.2	mg/Kg 2.812	SW846 6010 4/27/01	
Lead Total Solids	67.3	mg/Kg 2.4	SW846 6010 4/27/01	
Total Percent Solids	s 88 . 9	% 0.01 %	SM 2540-B 4/24/01	
otal Metals Digest	Solid Metals Di	gest	SW846 3050 4/25/01	

Approved By

Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTA, and AVVA. Cascade Analytical makes no varranty of a pay kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



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Fax: (509) 662-8183

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Batch: 101510

Client: Forsgren Associates Inc Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

nalytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003373 Sample Identification: E09-S03

Sample Comment: Eastmont 800.106.008

Date Received: 4/19/01 Date Sampled:

4/18/01

-						
1	est Requested	Results	Units MDL	Method	i Date Analyzed	Flags
J					<u>- 1946 de la company de l</u>	
	.rsenic Total Solid	5.230	mg/Kg 2.9	55 SW846	6010 4/27/01	
	Lead Total Solids	8.2	mg/Kg 2.5	SW846	6010 4/27/01	
-	otal Percent Solids	84.6	% 0.01	% SM 254	10-B 4/24/01	
1	'otal Metals Digest Solid	d Metals Di	gest	SW846	3050 4/25/01	200
		네 그 없다.				

Cascade Analytical uses procedures established by EPL, MOAC, APHA, MASTM, Fand AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Anc. saliability from the use of these results. Cascade Analytical, Anc. saliability from the use of these results.

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



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Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003374

Date Received: 4/19/01

Sample Identification: E09-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

		e sale tologie				
Test Requested	Results	s Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	18.99	mg/Kg	3.001	SW846	6010 4/27/01	
Lead Total Solids	71.1	mg/Kg	2.5	SW846	6010 4/27/01	
otal Percent Solids	83.3	%	0.01 %	SM 254	10-B 4/24/01	
otal Metals Digest S	Solid Metals	Digest		SW846	3050 4/25/01	

Approved By:

Cascade Analytical uses procedures established by ETA, MOAC, APHA, ASTM, and AVVA: Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



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Batch: 101510

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Account: 197

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Sampler: Brad Ziegler/Jim Caldwell

Client: Forsgren Associates Inc

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003375 Sample Identification: E10-S01 Date Received: 4/19/01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

	4.				医多种性 医多种性 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基		
	tradiya Yangatan baran bar			a de la companya de		•	
7	Cost Daguastad		II-JI- MDI	V.11			
1	St Requested	Kesults	Units NUL	Method	l Date Anal)	/zea l·	.ags
_							
	arsenic Total Solid	78. 28	mg/Kg 2.7	709 SW846	6010 4/27/01		
	Lead Total Solids	626.	mg/Kg 2.3	SW846	6010 4/27/01		
	otal Percent Solids	s 92.3	% 0.01	% SM 254	10-B 4/24/01		
-7	otal Metals Digest	Solid Metals 1	Digest	SW846	3050 4/25/01		
	^+her Analysis	Analyze	d by SAS		4/30/01		
				활동에 설득하게 하는데, 나는	- 产生的复数医验验 化多数分配分配	1.5%	

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC; APHA, ASTH, and AVVA Cascade Analytical makes no warranty of a cany kind the client assumes all risk and liability from the use of these results. Cascade Analytical inc. soliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



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Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003376 Sample Identification: E10-S03 Date Received: 4/19/01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

이 사람은 유리수 있으면 하는 사람들이 가는 사람들이 가는 사람들이 가는 것이 살아왔다.	그는 사람들이 나는 사람들이 있는 점점이 되었다. 그는 일본학자과 사람들이 가는 사람들이 되었다.	
rst Requested Results	Units MDL Method Date Analyzed	Flags
Arsenic Total Solid 38.01	mg/Kg 2.815 SW846 6010 4/27/01	
Lead Total Solids 5.5	mg/Kg 2.4 SW846 6010 4/27/01	
otal Percent Solids 88.8	% 0.01 % SM 2540-B 4/24/01	
otal Metals Digest Solid Metals D	igest SW846 3050 4/25/01	

Approved By: Approved By:

Cascade Analytical uses procedures established by EPAL ADAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



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Batch: 101510 Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183 1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003377

Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Identification: E10-S05

Sample Comment: Eastmont 800.106.008

_			Units MDL	Metho	d Date Analyzed	Flage
۲	'∩ st Requested	Results	UNICS - MUL	necho		
Ì	Arsenic Total Solid	15.28			6010 4/27/01	
	Lead Total Solids	4.9			6010 4/27/01	
	otal Percent Solids	88 . 9	% 0.0	1 % SM 25	40-B 4/24/01	
Į	otal Metals Digest Soli	.d Metals I	Digest	SW846	3050 4/25/01	

Approved By June Man

Cascade Analytical, uses procedures established by EPA, \ACAC, APHA, FASTM, and AWWA. Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytcial vinc siliability to the



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Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003378

Date Received: 4/19/01

Sample Identification: E15-S01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

T- st-Requested		Units	MDL Method	Date Analyzed	Flays
Arsenic Total Solid	212.8	mg/Kg	2.904 SW846	6010 4/27/01	
Lead Total Solids	470.			6010 4/27/01	
otal Percent Solids	86.1	-	0.01 % SM 254		
otal Metals Digest So	lid Metals D	igest	SW846	3050 4/25/01	

Cascade Analytical uses precedures established by EPA, ADAC APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results a Cascade Analytical, and assimbility to the

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(509) 662-1888 Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003379

Date Received: 4/19/01

Sample Identification: E15-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

T	est Requested	Results	Units	MDI. Method	Date Analyzed	-r rags
-	rsenic Total Solid	83.33	mg/Kg		6010 4/27/01	
	Lead Total Solids	12.7	mg/Kg	2.5 SW846	6010 4/27/01	
	otal Percent Solids	83.7	%		0-B 4/24/01	
	otal Metals Digest S	olid Metals Dig	gest	SW846	3050 4/25/01	

Approved By:

Cascade Analytical uses procedures established by EPA, ADAC, APBA, ASTM, and ANVA. & Cascade Analytical makes no varranty of any kind the citest assumes all risk and liability from the use of these results. & Cascade Analytical, Inc. sliability to the

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Fax: (509) 662-8183

(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Repor

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003380

Date Received: 4/19/01

Sample Identification: E15-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Results	lloita MDL	Method Date Analyzeo	/
Ter kednestea	Results	UNITED - NOT		, rada
Arsenic Total Solid	< 2.927	5 5	.927 SW846 6010 4/27/01	
Lead Total Solids	5.2	mg/Kg 2.		X7
otal Percent Solids	- 85 . 4	% 0.01	1 % SM 2540-B 4/24/01	
otal Metals Digest Solid	Metals D	igest	SW846 3050 4/25/01	

Approved By:

Cascade Analytical uses procedures established by RPA ADAC APHA ASTM and AVVA Cascade Analytical makes notvarranty of any kind the client assumes all risk and liability from the use of a these results a cascade Analytcial, Inc. seliability to the



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

2-8183 Account: 197

Fax: (509) 662-8183 1-800-545-4206

Account: 157

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003381 Sample Identification: E15-S07 Date Received: 4/19/01

Date Sampled:

4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested	Regults	- Units MDL -	Method	Date Analyzed	Flaga
	etak u sa kateda			2222	
rsenic Total Solic	i < 2.838	mg/Kg 2.	838 SW846 6010	4/27/01	
Lead Total Solids	4.7	mg/Kg 2.	4 5W846 6010	4/27/01	
otal Percent Solid	is 88.1	% 0.01	% SM 2540-B	34/24/01	
otal Metals Diges	t Solid Metals D	igest	SW846 3050	4/25/01	

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes nowvarranty of seany kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. seliability to the



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1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003382

Date Received:

Sample Identification: E19-S01

4/19/01 4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

그 경우를 통해를 통해 있다. 그는 그리다 되는 것이 없는 것이 없는 것이 없다.		MDI			N _1			
	nits	nut.	netnoc		Dace K	nalyzeu	rla	ys
Arsenic Total Solid 69.28	mg/Kg	2.887	SW846	6010	4/27/	01		
Lead Total Solids 9.6 r	mg/Kg	2.4	SW846	- 日本一年記録的特征	4/27/	T-10-4-15 (4)		
otal Percent Solids 86.6	%	0.01 %	SM 254		4/24/	P マル(おんごがった		
otal Metals Digest Solid Metals Diges			SW846	3050	4/25/	or 1,200 og 210 og	1 1 1 3 - 1	
Other Analysis Analyzed by	SAS				4/30/	01		

Cascade Analytical viges procedures established by EPA MOAC, APHA, ASTM, and AYVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical line is liability it with



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Batch: 101510 Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Repor

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003383

Date Received: 4/19/01

Sample Identification: E19-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Test Requested Results Units MDL Method Date Analyzed	Flags
rsenic Total Solid 82.25 mg/Kg 2.706 SW846 6010 4/27/01	
Lead Total Solids 175. mg/Kg 2.3 SW846 6010 4/27/01	
otal Percent Solids 92.4 % 0.01 % SM 2540-B 4/24/01	
otal Metals Digest Solid Metals Digest SW846 3050 4/25/01	
Other Analysis Analyzed by SAS 4/30/01	

Cascade Analytical uses procedures established by EPA, AUAC, APHA, ASTM, and AWWA. Cascade Analytical makes no varranty of the any kind the client—assumes all risk and liability from the use of these results. Cascade Analytical, inc. s liability to the

Lauren Varl



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003384

Date Received: 4/19/01

Sample Identification: E19-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Table Daniel Land		D14-	11 4	-MDL Metho		Elec
Tost Requested		-Results-	- Units-	-MDL MECHE	d Date Analyzed	
mrsenic Total Solid		87.86	mg/Kg	2.772 SW846	6010 4/27/01	
Lead Total Solids		302.	mg/Kg	2.3 SW846	6010 4/27/01	다는 사람들이 다음하다. 그는 사람들이 있다.
otal Percent Solids		90.2	%	0.01 % SM 25	40-B 4/24/01	
otal Metals Digest So	lid	Metals D	igest	SW846	3050 4/25/01	
Other Analysis		Analyzed	by SAS		4/30/01	

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVMA, Cascade Analytical makes no varranty of any kind the client assumes allorisk and liability from the use of these results a Cascade Analytical, and castiability to the



Fax: (509) 662-8183

(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Repor

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003385

Date Received: 4/19/01

Sample Identification: E20-S01

4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

	Test Requested Results	s Units	MDL	Method Date Ana	lyzed	Flags
-						
	rsenic Total Solid 222.9	mg/Kg	2.685	SW846 6010 4/27/01		
	Lead Total Solids 983.	mg/Kg	2.3	SW846 6010 4/27/01	4-7	
	Total Percent Solids 93.1	%	0.01 %	SM 2540-B 4/24/01	- Jul	
	'otal Metals Digest Solid Metals	Digest		SW846 3050 4/25/01	ન્યું કરોક સ્થિત જિલ્લો હાઇક લા	

«Cascade Analytical uses procedures established by EPAL ACAC, APHA, ASTM, and AWWA (Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, winc's liability to the



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Batch: 101510 Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206 PO Number: 800.106.008

Analytical Service

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003386

Date Received: 4/19/01

Sample Identification: E20-503

4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

	보다는 불인 얼마는 사람이 되었다. 그 모양 화를 받는다.		II		
-	Test Requested	- Results	Units ADL	Method Date Analyzed	riays
	rsenic Total Solid	57.86	mg/Kg 2.729	SW846 6010 4/27/01	
	Lead Total Solids	8.2	mg/Kg 2.3	SW846 6010 4/27/01	
	otal Percent Solids	91.6	% 0.01 %	SM 2540-B 4/24/01	
	'otal Metals Digest Solid	Metals I)igest	SW846 3050 4/25/01	

Approved By: Speaker Warley

Cascade Analytical uses procedures established by EPA; AOAC; APHA, ASTM, and AYMA & Cascade Analytical makes no varranty of any kind the creation to the use of these results as cascade Analytical, which is liability from the use of these results as cascade Analytical, which is liability atouther.



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Repor

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003387

Date Received: 4/19/01

Sample Identification: E20-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

7	rest Requested	P. C.	esults Unit	ותא ב	Method	Date Analy	zed F	lags
-								
	rsenic Total So	olid	47.18 mg/	′Kg 3.005	SW846 60	10 4/27/01		
	Lead Total Solid	is	4.6 mg/	Kg 2.5	SW846 60	10 4/27/01		
	otal Percent So	olids	83.2 %	0.01 %	SM 2540-	하게 되었다. 그렇지 않다고 하게 하다 하다.		
	otal Metals Dig	gest Solid M	etals Digest		SW846 30	50 4/25/01		

Approved By: \www.wish

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AYVA; Cascade Analytical makes no varranty of a sany kind the client assumes all risk and liability from the use of these results. Cascade Analytical, inc. siliability to the



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/03

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003388

Date Received: 4/19/01

Sample Identification: E20-S07

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

	n1.	Units	MDL	Method Date Analyzed	
Test Requested	Results	Unics	TIDE	nethod Date Analyzed	riags
arsenic Total Solid	< 2.998	mg/Kg	2.998	SW846 6010 4/27/01	
Lead Total Solids	5.2	mg/Kg	2.5	SW846 6010 4/27/01 SM 2540-B 4/24/01	X/
otal Percent Solids	83.4		0.01 %	그 사고 하는 그를 가고 사고 하는 것이 하는 그래에 가고 있는 것이다.	
otal Metals Digest Solid	Metals D	igest		SW846 3050 4/25/01	

Approved By

Cascade Analytical uses procedures established by EPA\ AOAC, APHA, ASTM, and AVMA & Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of others results. Ecascade Analytical, Sinc. 8: liability from the use of others results. Ecascade Analytical, Sinc. 8: liability from the use of others.

Parat Dans



CASCADE ANALYTICAL. INC.

3019 G.S. Center Rd. Wenatchee, WA 98801

(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003389

Date Received: 4/19/01

Sample Identification: E23-S01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Tost Requested Results	Units	MDL Method Date Analyzed	Flags
arsenic Total Solid 115.6	mg/Kg	2.884 SW846 6010 4/27/01	
Lead Total Solids 101.	mg/Kg		
otal Percent Solida 86.7	%	0.01 % SM 2540-B 4/24/01	
.stal Metals Digest Solid Metals D	igest	SW846 3050 4/25/01	

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWYA. Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. 8 liability to the



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003390

Date Received: 4/19/01

Sample Identification: E23-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

<u> Jest Requested</u>	Results	Units	MDI.	Method Date Analyzed	Flags
pur brown files a real file of the configuration					
arsenic Total Solid	18.65	mg/Kg	2.955	SW846 6010 4/27/01	
Lead Total Solids	10.0	mg/Kg	2.5	SW846 6010 4/27/01	
otal Percent Solids	84.6	%	0.01 %	SM 2540-B 4/24/01	
otal Metals Digest Solid	Metals Di	.gest		SW846 3050 4/25/01	

Approved By July Manual

Cascade Analytical uses procedures established by EPA ADAC, APHA, ASTM; and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. 8 liability to the



(509) 662-1888

Batch: 101510

1-800-545-4206

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Services

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003391

Date Received: 4/19/01

Sample Identification: E23-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

1	Test Requested	Results	Units MDL	Method Date Analyzed	Flags
7.					
	Arsenic Total Solid	5,577	mg/Kg 2.72	SW846 6010 4/27/01	
	Lead Total Solids	25.1	mg/Kg 2.3	SW846 6010 4/27/01	
	otal Percent Solids	91.9	% 0.01 %	SM 2540-B 4/24/01	
	'otal Metals Digest	Solid Metals Di	gest	SW846 3050 4/25/01	

Approved By: Harry June

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and ANYA Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the



(509) 662-1888

Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

1-800-545-4206

PO Number: 800.106.008

Analytical Services

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003392

Date Received: 4/19/01

Sample Identification: E24-501

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

Trat Requested R		MDI	Method Date Anal		
	esults Units	IIDL	nethod Date Anal	yzeu	Flags
Arsenic Total Solid 4	.05.3 mg/Kg	2.854	SW846 6010 4/27/01		
Lead Total Solids 14	:30 mg/Kg	2.4	SW846 6010 4/27/01		
otal Percent Solids	87.6 %	0.01 %	SM 2540-B 4/24/01	1,200	-
.otal Metals Digest Solid M	etals Digest		SW846 3050 4/25/01		
ⁿ ther Analysis A	nalyzed by SAS		4/30/01		

Approved By: Ward Wand

Cascade Analytical uses procedures established by EPA, AOAC, APHA; ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. ** Cascade Analytcial inc. ** liability to the



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Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183 1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services

Repor

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003393

Date Received:

4/19/01

Sample Identification: E24-S03

Sample Comment: Eastmont 800.106.008

Date Sampled: 4/18/01

_	Test Requested	Pogu 1+	o Unite	MDI Malla		
ĺ			 	MDL - Metho	d Date Analyzed	-Flags
	Arsenic Total Solid	75.06	ma/Ka	2.921 SW846	6010 4/27/01	
٠	Lead Total Solids	24,9	ma/Ka	2.5 SW846		
	Total Percent Solids	85.6	3 3	0.01 % SM 25		*
1	Total Metals Digest	Solid Metals	Digest	58846		

Approved By: James Wall

Cascade Analytical uses procedures established by EPA, AOAC, APBA, ASTM, and AWWA. Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. (s) liability to the



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1-800-545-4206

Batch: 101510 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Repor

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003394

Date Received: 4/19/01

Sample Identification: E24-S05

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

			Naita MDI		
₹	st Requested	Results	Units MDL	Method Date Analyzed	Flags
1	Arsenic Total Solid	< 2.834	mg/Kg 2.834	SW846 6010 4/27/01	
1	'ead Total Solids	5.6	mg/Kg 2.4	SW846 6010 4/27/01	
1	otal Percent Solids	88.2	% 0.01 %	SM 2540-B 4/24/01	
4	rotal Metals Digest S	Solid Metals D	igest	SW846 3050 4/25/01	

Approved By: Auto Ward

Cascade Analytical uses procedures established by EPA ADAC, APHA, ASTM, and ANVA E Cascade Analytical makes no varranty of a sany kind the client assumes all risk and liability from the use of these results. Cascade Analytical line is liability to the



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1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003395

Date Received: 4/19/01

Sample Identification: E24-S07

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

		Units MDL	- Method	Date Analyzed	Flaga	4.00.4
Tost Requested	Results	- UNLUB NUL	neenoe			
Arsenic Total Solid	< 2.825	mg/Kg 2.	825 SW846	6010 4/27/01		
Lead Total Solids	4.6	mg/Kg 2.	4 SW846	6010 4/27/01	42	
otal Percent Solids	88.5	% 0.01		1、 4、 1、 1、 有势,舒启其中 2、 4、 大 木 , 1、 4、 、 4、 。		
otal Metals Digest	Solid Metals I	Digest	SW846	3050 4/25/01		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Approved By: Jawan Jama

Cascade Analytical uses procedures established by EPA, MDAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, sinc. a liability from the use of these results. Cascade Analytical, sinc. a liability to the



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Batch: 101510

Fax: (509) 662-8183

Client: Forsgren Associates Inc Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Repor

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003396 Sample Identification: E27-S01

Sample Comment: Eastmont 800.106.008

Date Received: 4/19/01 Date Sampled: 4/18/01

Test Requested		-Results					
		nesults	- Units -	MDL -	Method	Date Analyzed	Flags
Arsenic Solid		119.	mg/Kg	16.1	Cuose no		
Barium Total Solid		78.2	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -		SW846 7060	4/26/01	X7a
Cadmium Total Solid			mg/Kg	0.107	SW846 6010	4/25/01	X7a
Chromium Total Solid		< 0.32	mg/Kg	0. 32	SW846 6010	4/25/01	
Lead Total Solids		9.41	mg/Kg	0.24	SW846 6010	4/25/01	
Mercury Total Solid		13.3	mg/Kg	2.3	SW846 6010	4/25/01	
		< 0.0161	mg/Kg	0.0161	SW846 7471	4/25/01	
t ≥nium Total Solid	是在各种的	< 2.68	mg/Kg	2.68	SW846 7740	4/27/01	
Silver Total Solid		0.92	mg/Kg	0.13	SW846 6010	おけい ひたいかま 二十二 コン	
Total Percent Solids		93.3		0.01 %	1	5/ 7/01	
Total Metals Digest So	olid	Metals Di	gest	0.01 %	SM 2540-B	4/24/01	1. A. (n. A.
Other Analysis		Analyzed			SW846 3050	4/23/01	
등 20 그 사용휴가 없다면 가는 다음		Anaryzeu	Dy SAS			4/28/01	

Approved By:

Cascade Analytical uses procedures established by EPA, MOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varianty of any kind the client assumes allerisk and liability from the use of these results. Cascade Analytical, inc. seliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade

Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101510

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

Client: Forsgren Associates Inc

PO Number: 800.106.008

Analytical Services Repoi

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003397

Date Received: 4/19/01

Sample Identification: E27-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

물이 화하다는 지를 다니다.						
Trat Requested	Results	Units -	MDL	Method	Date Analyzed	-Flags
Arsenic Solid	78.8	mg/Kg	8.75	SW846 7060	4/26/01	
Barium Total Solid	117.	mg/Kg	0.117	SW846 6010	5/ 4/01	
admium Total Solid	< 0.35	mg/Kg	0. 35	SW846 6010	5/ 4/01	
_hromium Total Solid	16.5	mg/Kg	0.26	SW846 6010	5/ 4/01	
'ead Total Solids	5.1	mg/Kg	2.5	SW846 6010	. 4/25/01	
rcury Total Solid	< 0.0175	mg/Kg	0.0175	SW846 7471	4/27/01	
nium Total Solid	< 2.92	mg/Kg	2.92	√S₩846 7740 -	124/27/01 ·	
Silver Total Solid	1.24	mg/Kg	0.15	SW846 6010	5/.7/01	
Total Percent Solids	85.7	~ %	0.01-%	SM 2540-B	4/24/01	
otal Metals Digest S	Solid Metals Di	.gest		SW846 3050	4/23/01	
uther Analysis	Analyzed	by SAS			4/28/01	

Approved B

Cascade Analytical uses procedures established by EPA ADAC APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability (row the suseror these results as Cascade Analytcial, winc. we liability to the



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1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Services Report Analytical

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003398.

Date Received: 4/19/01

Sample Identification: E27-S07

4/18/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

	그 교육에 되었습니다. 함께 가는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그			
st Requested	Results	Units MDL	Method Date Analyzed	Flags
Arsenic Total Solid	71.90	mg/Kg 2.765	SW846 6010 4/27/01	
ead Total Solids	92.0	mg/Kg 2.3	SW846 6010 4/27/01	의 기계하다 1 개최학교급 - 기계 대통합
otal Percent Solid	- 1、10(1)(2)(2)(2) - 2) - 2) - 2) - 2) - 2) - 2)		SM 2540-B 4/24/01 SW846 3050 4/25/01	
otal Metals Digest	Solid Metals D	rdear	3040 3030 1/23/01	

Approved By: Approved By:

Cascade Analytidal uses procedures established by EPA - MOAC; APRA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical inc. seliability to the



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003399

Date Received: 4/19/01

Sample Identification: E31-S01

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

	아이는 그 사람들이 많아 없다.			그는 이 사람들은 사람들이 되었다.	
١	st Requested	Results	Units MDL	Method Date Analyzed	Flags
1	Arsenic Total Solid	35.27	mg/Kg 2.822	SW846 6010 4/27/01	
1	'.ead Total Solids	6.0	mg/Kg 2.4	SW846 6010 4/27/01	
1	'otal Percent Solida	88.6	% Ø.Ø1 %	SM 2540-B 4/24/01	
ļ	iotal Metals Digest	Solid Metals D)igest	SW846 3050 4/25/01	
	Ther Analysis	Analyzed	i by SAS	5/ 1/01	

Approved By: / yulla hashe

Cascade Analytical uses procedures established by ERA, ADAC, APHA, ASTK, and AVVA. Cascade Analytical makes no varranty of anyakind the clientsassumes all risk and liability from the use of these results a Cascade Analytcial, Inc. seliability to the



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/0.

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003400

Date Received: 4/19/01

Sample Identification: E31-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

-	st Requested	Results	Units MDL Method Date Analyzed	Flags
	Arsenic Total Solid	15.32	mg/Kg 2.765 SW846 6010 4/27/01	
	lead Total Solids	34.3	mg/Kg 2.3 SW846 6010 4/27/01	다 가는 사람들은 다른 사람들이 되었다.
	'otal Percent Solids	90.4	% 0.01 % SM 2540-B 4/24/01	
	'otal Metals Digest !	Solid Metals D:	- 「實」는 사용, 문학자	
	`ther Analysis	Analyzed	by SAS 5/ 1/01	

Approved By: Auto A Madel

Gascade Analytical uses procedured established by EPA FAGAC TAPHA ASTM gand ANVA. Gascade Analytical makes no varranty or

any kind the client assumes all risk and liability from the use of these results lascade Analytcial, inc. se liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



4/19/01

4/18/01



3019 G.S. Center Rd. Wenatchee, WA 98801

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

ch: 101510 nt: Forsgren Associates Inc

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

REFAINT

Laboratory Number: 01-E003401

Sample Identification: E32-S01

Sample Comment: Eastmont 800.105.008

Date Received:

Date Sampled:

rest Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid Lead Total Solids Cotal Percent Solids Cotal Metals Digest Solid Other Analysis	19.16 6.7 73.7 Metals Di	_		SW846 6010 SW846 6010 SM 2540-B SW846 3050	4/27/01 4/27/01 4/24/01 4/25/01 5/ 1/01	Х7

Cascade Analytical uses procedures established by EPA, AOAC APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytcial, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.

Corrected sample ID



Fax: (509) 662-8183

(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Sampler: Dave Nitchels PO Number: 800.106.008

Report Services Analytical

Report Date:

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003402

Date Received: 4/19/01

Sample Identification: E32-S03

Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

그는 그 사람들이 가는 그들은 하는 그는 그는 그를 살았다.	and the state of the same				
T st Requested Results	Units MDL	Metho	od Da	te Analyzed	Flags
Arsenic Total Solid 3.257	mg/Kg 2		[18] 사람 기교 회의 최기를 즐기	/27/01	
lead Total Solids 13.7	mg/Kg 2	.3 SW846	6 6010 4	/27/01	
otal Percent Solids 92.1	% 0.0	The state of the s		/26/01	
otal Metals Digest Solid Metals D.	igest	SW846	大大学とはいる。大学の大学のでは	/25/01	
Ther Analysis Analyzed	by SAS		5	/ 1/01	

Approved By: \au\

Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the



(509) 662-1888

Batch: 101510

Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183 1-800-545-4206

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003460 Sample Identification: E21-S01 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800.106.008

			12		Taki.	* *				
_	st Requested	Results	Units	MDL	100	Method	Date	Analyzed	Flags	
•	Arsenic Total Solid	121.1	mg/Kg	2,86	5	 S₩846	6010 4/2	7/01		
-	lead Total Solids	1030	mg/Kg	2.4	1.5	SW846	化二环 医二角 医二二氏管 经递减率 医乙二	7/01		
	otal Percent Solids	87.4	%	0.01	1.75	SM 254	"내기 내 그 문에 "를 보고 25일까? 지원되다	6/01		
	otal Metals Digest So		•			SW846	3050 4/2	[문항공원·문학학 전		
	Ther Analysis	Analyzed	by SAS				4/2	8/01		

Approved By: WITH WAS

Cascade Analytical uses procedures established by RPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes on warranty of anykind the client assumes all risk and liability from the use of these results. Cascade Analytical, inc. s Hability to the



(509) 662-1888

1-800-545-4206

Batch: 101510

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003461 Sample Identification: E21-S03 Date Received: 4/19/01

Date Sampled: 4/18/01

물질이 바꾸는 사람들이 하는데

Sample Comment: Eastmont 800.106.008

					<u>_ 1 전 1일 전폭</u> 한 충속 원호 (1 1 1	
-7	st Requested	Results	Units	MDL Method	Date Analyzed	rlags
-	Arsenic Total Solid	69.52	mg/Kg	2.838 SW846	6010 4/27/01	
	ead Total Solids	23.3	mg/Kg	2.4 SW846		
	otal Percent Solids	88.1	%	0.01 % SM 254		
	Total Metals Digest	Solid Metals Di	.gest	SW846	3050 4/25/01	

Cascade Analytical (uses procedures established by EPA, ADAC, APHA, ASTM, and ANNA, Gascade Analytical makes no warranty of a gardy kind the client assumes all risk and liability from the use of these results. A Cascade Analytical, line was liability to the

Secret Local S



(509) 662-1888

Batch: 101510

Fax: (509) 662-8183

Client: Forsgren Associates Inc

1-800-545-4206 Account: 197

Sampler: Brad Ziegler/Jim Caldwell

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003462 Sample Identification: E21-S05 Date Received: 4/19/01 Date Sampled: 4/18/01

Sample Comment: Eastmont 800:106.008

7	st Requested	Results	Units MDL	Method Date Analyzed	Flags
-	Arsenic Total Solid	91.33	mg/Kg 2.89	SW846 6010 4/27/01 SW846 6010 4/27/01	
	ead Total Solids .otal Percent Solids	187. 86.5	mg/Kg 2.4 % 0.01 %	SM 2540-B 4/26/01	
	"otal Metals Digest	Solid Metals D)igest	SW846 3050 4/25/01	

Approved By:

Cascade Analytical uses procedures established by EPA, ADAC, TAPHA, ASTM, and AVVA. Cascade Analytical makes no varrant, or any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc, 's liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.

Sound Analytical Services, Inc.

ANALYTICAL & ENVIRONMENTAL CHEMISTS 5755 8th Street East • Tacoma, WA 98424 (253) 922-2310 • FAX (253) 922-5047 www.saslab.com



TRANSMITTAL MEMORANDUM

MW 1: 2301

DATE: May 7, 2001

TO: Judy Brown

Cascade Analytical, Inc. 3019 G. S. Center Rd. Wenatchee, WA 98801

PROJECT: Forsgren& Associates

REPORT NUMBER: 97707

Enclosed are the test results for sixteen samples received at Sound Analytical Services on April 24, 2001.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Dawn Werner Project Manager

Sound Analytical Services, Inc.

ANALYTICAL & ENVIRONMENTAL CHEMISTS 5755 8th Street East • Tacoma, WA 98424 (253) 922-2310 • FAX (253) 922-5047 www.saslab.com



TRANSMITTAL MEMORANDUM

DATE: May 7, 2001

TO: Judy Brown

Cascade Analytical, Inc. 3019 G. S. Center Rd. Wenatchee, WA 98801

PROJECT: Forsgren & Associates

elleur

REPORT NUMBER: 97642

Enclosed are the test results for twenty samples received at Sound Analytical Services on April 20, 2001.

The report consists of this transmittal memo, analytical results, quality control reports, a copy of the chain-of-custody, a list of data qualifiers and analytical narrative when applicable, and a copy of any requested raw data.

Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Dawn Werner Project Manager

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-03362
 EQ 6-SQ 1

 Lab ID:
 97642-06

 Date Received:
 4/20/01

 Date Prepared:
 4/23/01

 Date Analyzed:
 4/25/01

 % Solids
 93.67

 Dilution Factor
 10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	74.8		46	129
Triphenyl Phosphate	96.5	•	53	135

	Res			<u></u> ,
Analyte	(ug/l		MDL	Flags
Dichlorvos	ND	6.9	2.2	
Mevinphos	ND	6.9	2.6	
Demeton,O-S	ND	6.9	1.9	
Ethoprop	ND	10	4.2	
Naled	ND	21	7.2	
Sulfotepp	ND	, 6.9	1.9	
Monocrotophos	ND	6.9	1.5	
Phorate	- ND	10	2.8	
Dimethoate	ND	14	4.1	
Diazinon -	ND	21	. 8.5	
Disulfoton	ND	14	5.3	
Parathion, methyl	ND	10	2.7	
Ronnel	ND	6.9	2.5	
Malathion	ND	10	4	
Chlorpyrifos	ND	10	2.8	
Fenthion	ND	10	3.8	
Parathion	ND	6.9	2.4	
Trichloronate	ND	10	3	
Tetrachlorvinphos	ND	6.9	1.6	
Fensulfothion	ND	. 10	3.3	•
Tokuthion	ND	· 10	2.9	
Merphos	ND	21	8.2	THE STATE OF
Bolstar	ND	6.9	2.4	
EPN	ND		• 4	er and the second of the secon
Azinphos,methyl	ND	6.9	2.7	25 B
Coumaphos	ND	10	4.8	
/**********	•	•	the state of the s	

Client Name Client ID: Lab ID:	Cascade Analytical, Inc. 01E-03363 そのは~Sの3 97642-07		
Date Received:	4/20/01		
Date Prepared:	4/23/01		
Date Analyzed:	4/25/01		
% Solids	93.79		
Dilution Factor	10		

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	70.4	1	46	129
Triphenyl Phosphate	87.6		53	135

	Result		
Analyte	(ug/kg)	PQL	MDL Flags
Dichlorvos	ND	6.9	2.2
Mevinphos	ND	6.9	2.6
Demeton,O-S	ND	6.9	1.9
Ethoprop	ND	10	4.2
Naled	ND	21	7.1
Sulfotepp	ND	6.9	1.9
Monocrotophos	ND	6.9	1.5
Phorate	ND	10	2.8
Dimethoate	ND	14	4.1
Diazinon	ND	21	8.5
Disulfoton .	ND	14	5.3
Parathion,methyl	ND	10	2.7
Ronnel	ND	6.9	2.5
Malathion	ND	10	4
Chlorpyrifos	ND	10	2.8
Fenthion	ND	10	3.8
Parathion	ND	6.9	2.4
Trichloronate	ND	10	3
Tetrachlorvinphos	ND	6.9	1.6
Fensulfothion	ND	10	3.3
Tokuthion	ND	10	2.9
Merphos	ND	21	8.2
Bolstar	ND	6.9	2.4
EPN	ND	.10	
Azinphos, methyl	ND	6.9	2.7
Coumaphos	ND	10	4.8

Cascade Analytical, Inc. Client Name 01E-03396 £27-SU/ Client ID: 97642-14 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/25/01 Date Analyzed: 93.13 % Solids 10 Dilution Factor

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	70.8		46	129
Triphenyl Phosphate	107		53	135

	Result		
Analyte	(ug/kg)	PQL	MDL Flags
Dichlorvos	ND	7.1	2.3
Mevinphos	ND	7.1	2.7
Demeton,O-S	ND	7.1	2
Ethoprop	ND	11	4.3
Naled	ND	21	7.3
Sulfotepp	ND	7.1	1.9
Monocrotophos	ND	7.1	1.6
Phorate	ND	<u>1</u> 11	2.8
Dimethoate	ND	14	4.2
Diazinon.	ND	21	. 8.7
Disulfoton	ND	14	5.4
Parathion, methyl	ND	11	2.8
Ronnel	ND	7.1	2.6
Malathion	ND ,		4.1
Chlorpyrifos	ND	11	2.9
Fenthion	ND	11	3.9
Parathion	ND	7.1	2.4
Trichloronate	ND	11	3.1
Tetrachlorvinphos	ND ,	7.1	1.7
Fensulfothion	ND	11	3.4
Tokuthion	ND	11	2.9
Merphos	ND	21	8.4
Bolstar	ND	7.1	2.5
∍ EPN	ND	11	•4.1
Azinphos,methyl	ND	7.1	2.7
Coumaphos	ND	11	4.9

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03397 £27-503
Lab ID:	97642-15
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/25/01
% Solids	84.9
Dilution Factor	10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recovery Limits	
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	65.3		46	129
Triphenyl Phosphate	81.4		53	135

	Result	no.	MDI Flanc
Analyte	(ug/kg)	PQL	MDL Flags
Dichlorvos	ND	7.7	2.5
Mevinphos	ND	7.7	2.9
Demeton,O-S	ND	7.7	2.1
Ethoprop	ND	12	4.6
Naled	ND	23	7.9
Sulfotepp	ND	7.7	2.1
Monocrotophos	ND	7.7	1.7
Phorate	ND	12	3.1
Dimethoate	ND	15	4.5
Diazinon -	ND	23	9.5
Disulfoton	ND	15	5.9
Parathion,methyl	ND	12	3
Ronnel	ND	7.7	2.8
Malathion	ND	12	4.4
Chlorpyrifos	ND	12	3.1
Fenthion	ND	12	4.2
Parathion	ND	7.7	2.6
Trichloronate	ND .	12	3.3
Tetrachlorvinphos	ND	7.7	1.8
Fensulfothion	ND	12	3.7
Tokuthion	ND	12	3.2
Merphos	ND	23	9.1
Bolstar	ND	7.7	2.7
EPN	ND	-12	4.5
Azinphos,methyl	ND	7.7	2.9
Coumaphos	ND s	12	5.3

Cascade Analytical, Inc. Client Name E31-SO(01E-03399 Client ID: 97642-16 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/25/01 Date Analyzed: % Solids 89.78 10 Dilution Factor

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recovery Limits	
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	70.1		46	129
Triphenyl Phosphate	94.9		53	135

$\sim e^{\frac{2\pi}{3}} M$			Result				
Analyte			(ug/kg)	PC	QL .	MDL	Flags
Dichlorvos	١	ΝD			7.1	2.3	
Mevinphos	1	ΝD			7.1	2.7	
Demeton,O-S	١	ΝD			7.1	1.9	
Ethoprop	١	ΝD			11	4.3	
Naled	١	ΝD			21	7.3	
Sulfotepp	١	ΝD			7.1	1.9	
Monocrotophos	1	ΝD		\$ *	7.1	1.6	
Phorate	1	ΝD			11	2.8	
Dimethoate	1	ΝD			14	4.2	
Diazinon	1	ΝD			21	. 8.7	
Disulfoton	1	ΝD			14	5.4	
Parathion, methyl		ΝD			11	2.8	
Ronnel	1	ΝD			7.1	2.6	
Malathion	1	ΝD			11	4.1	
Chlorpyrifos	1	ND			11	2.9	
Fenthion	1	ND			11	3.9	
Parathion	1	ND			7.1	2.4	
Trichloronate	1	ND			11	3.1	
Tetrachlorvinphos	1	ND			7.1	1.7	
Fensulfothion	İ	ND			11	3.4	
Tokuthion		ND			11	2.9	
Merphos	ı	ND			21	8.4	
Bolstar	l de la	ND			7.1	2.5	
EPN		ND			11	4.1	in the second
Azinphos, methyl	1	ND			7.1	2.7	
Coumaphos	·	ND			11	4.9	

Sound Analytical Services, Inc.

Client Name Client ID: Lab ID:	Cascade Analytical, Inc. 01E-03400
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/25/01
% Solids	90.42
Dilution Factor	10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	66.7		46	129
Triphenyl Phosphate	88.1		53	135

		Result	DOI	MDI Elago
Analyte		(ug/kg)	PQL	MDL Flags
Dichlorvos	ND		7.2	2.3
Mevinphos	ND		7.2	2.7
Demeton,O-S	ND		7.2	2
Ethoprop	ND		11	4.4
Naled	ND		22	7.4
Sulfotepp	ND		7.2	2
Monocrotophos	ND		7.2	1.6
Phorate	ND		11	2.9
Dimethoate	ND		14	4.3
Diazinon .	ND		22	. 8.9
Disulfoton	ND		14	5.5
Parathion, methyl	ND		11	2.9
Ronnel	ND		7.2	2.6
Malathion	ND		11	4.2
Chlorpyrifos	ND		11	2.9
Fenthion	ND		11	4
Parathion	ND		7.2	2.5
Trichloronate	ND		11	3.1
Tetrachlorvinphos	ND		7.2	1.7
Fensulfothion	ND		11	3.5
Tokuthion	ND		. 11	3
Merphos	ND		22	8.5
Bolstar	ND		7.2	2.5
EPN	ND ND		11	4.2
Azinphos,methyl	ND		7.2	2.8
Coumaphos	ND		• 11	5

Cascade Analytical, Inc. Client Name 01E-03401 E32501 Client ID: 97642-18 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/25/01 Date Analyzed: 88.16 % Solids 10 **Dilution Factor**

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	84.1		46	129
Triphenyl Phosphate	87.6		53	135

Analyte	Result (ug/kg)	PQL	MDL Flags
Dichlorvos	ND	7.3	2.3
Mevinphos	ND	7.3	2.8
Demeton,O-S	ND	7.3	2
Ethoprop	ND	11	4.4
Naled	ND	22	7.6
Sulfotepp	ND	7.3	2
Monocrotophos	ND	7.3	1.6
Phorate	ND	11	2.9
Dimethoate	ND	15	4.3
Diazinon .	ND	22	. 9
Disulfoton	ND	15	5.6
Parathion,methyl	ND	11	2.9
Ronnel	ND	7.3	2.7
Malathion	ND	11	4.2
Chlorpyrifos	ND	11	3
Fenthion	ND	11	4
Parathion	ND .	7.3	2.5
Trichloronate	ND	11	3.2
Tetrachlorvinphos	ND	7.3	1.7
Fensulfothion	ND	11	3.5
Tokuthion	ND	. 11	3
Merphos	ND	22	8.7
Bolstar	ND	7.3	2.6
EPN	ND	11	٠4.2
Azinphos,methyl	ND	7.3	2.8
Coumaphos	ND	11	5.1

Cascade Analytical, Inc. Client Name 01E-03362 EO6-50(Client ID: 97642-06 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/24/01 Date Analyzed: 93.67 % Solids 10 **Dilution Factor**

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	86.5		72	130

	Resul			
Analyte	ug/kg) PQL		ags
Dalapon	ND	7	2.1	
4-Nitrophenol	ND	7	1.6	
Dicamba	ND	7	1.7	
Dichloroprop	ND	7	0.75	
2,4-D	ND	7	0.58	
Pentachlorophenol	ND	7	0.82	
Silvex (2,4,5-TP)	ND	7	2.2	
2,4,5-T	ND	7	1.5	
Dinoseb	ND	7	0.58	
2,4-DB	ND	7	.0.98	
MCPP	ND	7	1.9	
MCPA -	ND	7	1.1	

Cascade Analytical, Inc. Client Name 01E-03363 E06ふる3 Client ID: 97642-07 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/24/01 Date Analyzed: 93.79 % Solids Dilution Factor 10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	84.6		72	130

		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Dalapon	ND		7.1	. 2.2	
4-Nitrophenol	ND		7.1	1.6	
Dicamba	ND		7.1	1.7	
Dichloroprop	ND		7.1	0.75	
2,4-D	ND		7.1	0.58	
Pentachlorophenol	ND		7.1	0.83	
Silvex (2,4,5-TP)	ND		7.1	2.3	
2,4,5-T	ND		7.1	1.5	
Dinoseb	ND		7.1	0.58	
2,4-DB	ND		7.1	0.99	
MCPP	ND		7.1	1.9	
MCPA	ND		7.1	1.1	

Cascade Analytical, Inc. Client Name 01E-03396 E 27-50 (Client ID: 97642-14 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/24/01 Date Analyzed: 93.13 % Solids 10 **Dilution Factor**

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	76.8		72	130

	Resu	lt	
Analyte	(ug/kg	g) PQL	MDL Flags
Dalapon	ND	7	2.1
-4-Nitrophenol	ND	7	1.6
Dicamba	ND	7	1.7
Dichloroprop	ND	7	0.75
2,4-D	ND	7	0.58
Pentachlorophenol	ND	7	0.82
Silvex (2,4,5-TP)	ND	1 7	2.2
2,4,5-T	ND	7	1.5
Dinoseb	ND	7	0.58
2,4-DB	ND	7	.0.99
	ND	7	1.9
MCPP MCPA	ND	7	1.1

Cascade Analytical, Inc. Client Name 01E-03397 E 27-503 Client ID: 97642-15 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/24/01 Date Analyzed: 84.9 % Solids **Dilution Factor** 10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	86		72	130

	Result		
Analyte	(ug/kg)	PQL	MDL Flags
Dalapon	ND	7.8	2.4
4-Nitrophenol	ND	7.8	1.7
Dicamba	ND	· 7.8	1.9
Dichloroprop	ND	7.8	0.83
2,4-D	ND	7.8	0.64
Pentachlorophenol	ND	7.8	0.91
Silvex (2,4,5-TP)	ND ·	7.8	2.5
2,4,5-T	ND	7.8	1.7
Dinoseb	ND	7.8	0.64
2,4-DB	ND	7.8	. 1.1
MCPP .	ND	7.8	2.1.
MCPA	ND	7.8	1.2

Cascade Analytical, Inc. = 31 -50 | Client Name 01E-03399 Client ID: 97642-16 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/24/01 Date Analyzed: 89.78 % Solids 10 **Dilution Factor**

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	77.9		72	130

	Result		
Analyte	(ug/kg)	PQL	MDL Flags
Dalapon	ND	7.1	2.2
4-Nitrophenol	ND	7.1	1.6
Dicamba	ND	7.1	1.7
Dichloroprop	ND	7.1	0.76
2,4-D	ND	7.1	0.59
Pentachlorophenol	ND	7.1	0.83
Silvex (2,4,5-TP)	ND	7.1	2.3
2,4,5-T	ND	7.1	1.6
Dinoseb	ND	7.1	0.59
2,4-DB	ND	7.1	1
MCPP	ND	7.1	2.
MCPA -	ND	7.1	1.1

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-03400

 Lab ID:
 97642-17

 Date Received:
 4/20/01

 Date Prepared:
 4/23/01

 Date Analyzed:
 4/24/01

 % Solids
 90.42

 Dilution Factor
 10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	74.6		72	130

	Result			
Analyte	(ug/kg)	PQL	MDL	Flags
Dalapon	ND	6.9	2.1	
4-Nitrophenol	ND	6.9	1.5	
Dicamba	ND	6.9	1.7	
Dichloroprop	ND	6.9	0.74	
2,4-D	ND	6.9	0.57	
Pentachlorophenol	ND	6.9	0.81	
Silvex (2,4,5-TP)	ND	6.9	2.2	
2,4,5-T	ND	6.9	1.5	
Dinoseb	ND	6.9	0.57	
2,4-DB	ND	6.9	0.97	
MCPP	ND	6.9	1.9	
MCPA -	ND	6.9	1	

Cascade Analytical, Inc. Client Name E32-501 01E-03401 Client ID: 97642-18 Lab ID: 4/20/01 Date Received: 4/23/01 Date Prepared: 4/24/01 Date Analyzed: 88.16 % Solids 10 Dilution Factor

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	87.1		72	130

	Resuit			
Analyte	(ug/kg)	PQL	MDL	Flags
Dalapon	ND	7.1	2.2	
4-Nitrophenol	ND	7.1	` 1 <i>.</i> 6	
Dicamba	ND	7.1	1.7	1
Dichloroprop	ND	7.1	0.76	
2,4-D	ND	7.1	0.59	
Pentachlorophenol	ND	7.1	0.83	
Silvex (2,4,5-TP)	ND	7.1	2.3	
2,4,5-T	ND	7.1	1.6	
Dinoseb	ND	7.1	0.59	
2,4-DB	ND	7.1	. 1	
MCPP	ND	7.1	. 2	
MCPA .	ND	7.1	1.1	

Cascade Analytical, Inc. Client Name 01E-03348 Client ID: E02-501 97642-01 Lab ID: 4/20/01 Date Received: 4/26/01 Date Prepared: Date Analyzed: 4/30/01 89.68 % Solids Dilution Factor

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	77		49	134
Decachlorobiphenyl	34.5	X9	-41	145

		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND		1.1	0.11	
alpha-BHC	ND		1.1	0.15	
beta-BHC		17	1.1	0.25	C1
delta-BHC	ND		1.1	0.15	
gamma-BHC (Lindane)		0.52	1.1	0.21	JC1
Chlordane (technical)	ND		<u>,</u> 11	7.7	
4,4'-DDD	ND		2.2	0.13	:.
4,4'-DDE		1200	2.2	0.16	D C1
4,4'-DDT		9200	2.2	0.19	D C1
Dieldrin		5.6	2.2	0.27	C1
Endosulfan I	ND		1.1	0.16	
Endosulfan II		5.7	2.2	0.33	C1
Endosulfan sulfate	ND		2.2	0.33	
Endrin	ND		2.2	0.34	
Endrin aldehyde	ND		2.2	0.41	
Heptachlor	ND		1.1 , , , ,	0.12	
Heptachlor epoxide	ND 1		1.1	0.2	•
Methoxychlor	ND	٠.,	11	0.92	
Endrin ketone	ND		2.2	0.36	
Toxaphene	ND		110	13	•

Cascade Analytical, Inc. Client Name 01E-03349 Client ID: E02-503 97642-02 Lab ID: 4/20/01 Date Received: 4/26/01 Date Prepared: 4/30/01 Date Analyzed: 95.93 % Solids Dilution Factor

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits	
Surrogate Tetrachloro-m-xylene Decachlorobiphenyl	% Recovery 86.3 44	Flags	Low 49 41	High 134 145

A m a louta		Result (ug/kg)	PQL	MDL	Flags
Analyte	ND	(ug/kg)	1	0.1	J -
Aldrin	ND		· •	0.15	
alpha-BHC	ND	4.1	1	0.24	† C1
beta-BHC	ND	4.1	1	0.14	
delta-BHC	ND		1	0.2	
gamma-BHC (Lindane)	ND		10	7.2	
Chlordane (technical)	ND		2.1	0.12	
4,4'-DDD	ND	40	•	0.12	C1
4,4'-DDE		13	2.1		
4,4'-DDT		28	2.1	0.18	· C1
Dieldrin	ND		2.1	0.25	
Endosulfan I	ND		1	0.15	
Endosulfan II	ND		2.1	0.31	
Endosulfan sulfate	ND		2.1	0.31	/
Endrin	ND		2.1	0.32	
Endrin aldehyde	ND		2.1 '	0.38	
Heptachlor	ND		1	0.11	
Heptachlor epoxide	ND		1	0.19	
	ND		. 10	0.87	
Methoxychlor		÷*	2.1	0.34	
Endrin ketone	ND			12	
Toxaphene	ND		- 100	. 12	•

Cascade Analytical, Inc. Client Name 01E-03355 E04-501 Client ID: 97642-03 Lab ID: 4/20/01 Date Received: 4/26/01 Date Prepared: Date Analyzed: 4/30/01 94.05 % Solids Dilution Factor

Organochlorine Pesticides by USEPA Method 8081A

	•		Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	89.1		49	134
Decachlorobiphenyl	42.5		41	145

	Result				
Analyte	(ug/kg)		PQL	MDL	Flags
Aldrin	ND		0.99	0.099	
alpha-BHC	ND		0.99	0.14	
beta-BHC	ND		0.99	0.22	
delta-BHC	ND		0.99	0.13	
gamma-BHC (Lindane)	ND		0.99	0.19	
Chlordane (technical)	ND		9.9	6.9	•
4,4'-DDD `	ND		2	0.12	
4,4'-DDE		21	2	0.14	C1
4,4'-DDT		4.1	2	0.17	C1
Dieldrin	ND		2	0.24	
Endosulfan I	ND		0.99	0.15	
Endosulfan II	ND		2	0.29	
Endosulfan sulfate	ND		2	0.29	
Endrin	ND		2	0.31	
Endrin aldehyde	ND		2	0.36	
Heptachlor	ND .		0.99	0.11	٠
Heptachlor epoxide	ND		0.99	0.18	
Methoxychior	ND		9.9	0.82	
Endrin ketone	ND		2	0.32	
Toxaphene	ND		99	12	

Cascade Analytical, Inc. Client Name 01E-03356 Client ID: Lab ID: 97642-04 4/20/01 Date Received: 4/26/01 Date Prepared: 4/30/01 Date Analyzed: % Solids 88.94 1 Dilution Factor

Organochlorine Pesticides by USEPA Method 8081A

		1	Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	89.8		49	134	
Decachlorobiphenyl	41.2		41	145	

		Result			`	
Analyte		(ug/kg)	PQL		MDL	Flags
Aldrin	ND			1.1	0.11	
alpha-BHC	ND			1.1	0.15	
beta-BHC	ND			1.1	0.25	
delta-BHC	ND			1.1	0.14	
gamma-BHC (Lindane)	ND			1.1	0.21	
Chlordane (technical)	ND		ź	11	7.6	
4,4'-DDD `	ND			2.2	0.13	
4,4'-DDE		2	• •	2.2	0.15	J C1
4,4'-DDT		0.96		2.2	0.19	JC1
Dieldrin	ND			2.2	0.26	
Endosulfan I	ND			1.1	0.16	ē
Endosulfan II	ND	1		2.2	0.32	
Endosulfan sulfate	ND			2.2	0.32	
Endrin	ND			2.2	0.34	
Endrin aldehyde	ND			2.2	0.4	
Heptachlor	ND			1.1	0.12	
Heptachlor epoxide	ND	•		1.1	0.19	
Methoxychlor	ND			11	0.91	
Endrin ketone	ND	. •		2.2	0.35	
Toxaphene	, ND			110	13	

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03357 97642-05 E04-505
Lab ID:	97642-05
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	90.4
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

			Recov	ery Limits
Surrogate Tetrachloro-m-xylene Decachlorobiphenyl	% Recovery 85.4 42.4	Flags	Low 49 41	H igh 134 145

		Result		
Analyte		(ug/kg)	PQL	MDL Flags
Aldrin	ND		1.1	0.11
alpha-BHC	ND		1.1	0.15
beta-BHC	ND		1.1	0.25
delta-BHC	ND		1.1	0.14
gamma-BHC (Lindane)	ND		1.1	0.2
Chlordane (technical)	ND		<u>,</u> 11	7.5
4,4'-DDD	ND		2.2	0.13
4,4'-DDE	ND		2.2	0.15
4,4'-DDT	ND		2.2	0.19
Dieldrin -	ND		2.2	0.26
Endosulfan I	ND		1.1	0.16
Endosulfan II	ND		2.2	0.32
Endosulfan sulfate	ND		2.2	0.32
Endrin	ND		2.2	0.34
Endrin aldehyde	ND		2.2	0.4
Heptachlor	ND		1.1	0.12
Heptachlor epoxide	ND		1.1	0.19
Methoxychlor	ND		. 11	0.9
Endrin ketone	ND		2.2	0.35
Toxaphene	ND		110	13

Client Name
Client ID:
Lab ID:
Date Received:
Date Prepared:
Date Analyzed:
% Solids
Dilution Factor

Cascade Analytical, Inc.
01E-03362
97642-06
4/20/01
4/26/01
4/26/01
4/30/01
93.67

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits 🧸
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	82.8		49	134
Decachlorobiphenyl	42.6		41	145

		Result				
Analyte		(ug/kg)		PQL	MDL	Flags
Aldrin	ND			· 1	0.1	
alpha-BHC	ND			1	0.14	
beta-BHC		1	.6	1	0.23	C1
delta-BHC	ND			1	0.14	
gamma-BHC (Lindane)	ND			1	0.2	
Chlordane (technical)	ND			10	7.2	
4,4'-DDD	ND		f 1	2.1	0.12	
4,4'-DDE		6	36 ·	2.1	0.15	C1
4,4'-DDT		9	.2	2.1	0.18	C1
Dieldrin	ND			2.1	0.25	
Endosulfan I	ND			1	0.15	
Endosulfan II	ND			2.1	0.31	
Endosulfan sulfate	ND			2.1	0.31	
Endrin	ND			2.1	0.32	
Endrin aldehyde	ND			2.1	0.38	
Heptachlor	ND			1	0.11	
Heptachlor epoxide	ND			1	0.18	
Methoxychlor	ND			10	0.86	
Endrin ketone	ND			2.1	0.33	
Toxaphene	ND		. •	100	12	

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03363 E 6 6 - 503
Lab ID:	97642-07
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	93.79
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	91.8		49	134
Decachlorobiphenyl	50.6		41	145

		Result				
Analyte		(ug/kg)		PQL	MDL	Flags
Aldrin	ND	·		1.1	0.11	
alpha-BHC	ND			1.1	0.15	
beta-BHC	ND			1.1	0.24	
delta-BHC ~	ND			1.1	0.14	
gamma-BHC (Lindane)	ND	-		1.1	0.2	
Chlordane (technical)	ND			11	7.4	
4,4'-DDD `	ND			2.1	0.12	
4,4'-DDE			5.9	2.1	0.15	C1
4,4'-DDT			1.2	2.1	0.18	JC1
Dieldrin	ND			2.1	0.26	
Endosulfan I	ND	,		1.1	0.16	
Endosulfan II	ND			2.1	0.31	
Endosulfan sulfate	ND			2.1	~ 0.31	
Endrin	ND ND			2.1	0.33	
Endrin aldehyde	ND			2.1	0.39	
Heptachlor	ND			1.1	0.12	
Heptachlor epoxide	ND			1.1	0.19	
Methoxychlor	ND			11	0.88	
Endrin ketone	ND			2.1	0.34	
Toxaphene	ND			110	13	

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03366 97642-08 E07-50
Lab ID:	97642-08
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	90.98
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	74.9		49	134
Decachlorobiphenyl	25.6	X9	41	145

		Result	DOI.		MDL	Elogo
Analyte		(ug/kg)	PQL			Flags
Aldrin	ŊD			1.1	0.11	
alpha-BHC		0.79		1.1	0.15	J C2
beta-BHC		13		1.1	0.25	C1
delta-BHC	ND			1.1	0.15	
gamma-BHC (Lindane)		0.37		1.1	0.21	J C1
Chlordane (technical)	ND			11	7.6	
4,4'-DDD	ND		1	2.2	0.13	
4,4'-DDE		130		2.2	0.15	C1
4,4'-DDT		280		2.2	0.19	D C1
Dieldrin	ND			2.2	0.27	er.
Endosulfan I	ND			1.1	0.16	
Endosulfan II	ND			2.2	0.32	
Endosulfan sulfate	ND			2.2	0.32	
Endrin	ND			2.2	0.34	
Endrin aldehyde	ND			2.2	0.4	
Heptachlor	ND			1.1	0.12	
Heptachlor epoxide	ND			1.1	0.2	
Methoxychlor	ND			11	0.91	
Endrin ketone	ND			2.2	0.35	
Toxaphene	ND			110	. 13	

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03375 97642-09 ELO-501
Lab ID:	97642-09
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	85.3
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	90		49	134	
Decachlorobiphenyl	42.8		41	145	

		Result	<u>.</u>		
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	. ND		1.2	0.12	
alpha-BHC	ND		1.2	0.16	
beta-BHC	ND		1.2	0.26	
delta-BHC	ND		1.2	0.15	
gamma-BHC (Lindane)	ND		1.2	0.22	
Chlordane (technical)	ND		12	8.1	
4,4'-DDD	ND		2.3	0.14	
4,4'-DDE		220	2.3	0.16	D C1
4,4'-DDT		38	2.3	0.2	C1
Dieldrin		0.51	2.3	0.28	JC1
Endosulfan I	. ND		1.2	0.17	
Endosulfan II	ND	`	2.3	0.34	
Endosulfan sulfate	ND		2.3	0.34	
Endrin	ND		2.3	0.36	
Endrin aldehyde	ND		2.3	0.43	
Heptachlor	ND		1.2	0.13	
Heptachlor epoxide	ND		1.2	0.21	
Methoxychlor	ND		12	0.96	
Endrin ketone	ND		2.3	0.37	
Toxaphene	, ND		120	14	

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-03382
 10-50

 Lab ID:
 97642-10
 4/20/01

 Date Received:
 4/26/01
 4/26/01

 Date Analyzed:
 4/30/01
 4/30/01

 % Solids
 89.84
 50

 Dilution Factor
 1
 1

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	88.3		49	134
Decachlorobiphenyl	42.6		41	145

		Result				
Analyte		(ug/kg)	PQL		MDL	Flags
Aldrin	ND			1.1	0.11	
alpha-BHC	ND			1.1	0.15	
beta-BHC	ND			1.1	0.24	
delta-BHC	ND		-	1.1	0.14	
gamma-BHC (Lindane)	ND			1.1	0.2	
Chlordane (technical)	ND			11	7.5	
4,4'-DDD	ND		* *=	2.2	0.13	
4,4'-DDE		130		2.2	0.15	C1
4,4'-DDT		20		2.2	0.19	C1
Dieldrin ·	ND			2.2	0.26	
Endosulfan I	ND			1.1	0.16	
Endosulfan II	,	0.86	-	2.2	0.32	JC2
Endosulfan sulfate	ND			2.2	0.32	
Endrin	ND			2.2	0.33	
Endrin aldehyde	ND		•	2.2	0.4	
Heptachlor	ND			1.1	0.12	
Heptachlor epoxide	ND	•		1.1	0.19	
Methoxychlor	ND			11	0.9	
Endrin ketone	ND			2.2	0.35	
Toxaphene	ND		-	110	13	
IUXADIRETTE	140				. •	

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-03383

 Lab ID:
 97642-11

 Date Received:
 4/20/01

 Date Prepared:
 4/26/01

 Date Analyzed:
 4/30/01

 % Solids
 94.16

 Dilution Factor
 1

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	54.1		49	134	
Decachlorobiphenyl	27.7	X9	41	145	

		Result					
Analyte		(ug/kg)			PQL	MDL	Flags
Aldrin	ND				1	0.1	
alpha-BHC	ND				1	0.15	
beta-BHC	ND			٠,	1	0.24	
delta-BHC	ND				1	0.14	
gamma-BHC (Lindane)	ND				1	0.2	
Chlordane (technical)	ND				10	7.3	
4,4'-DDD	ND			1	2.1	0.12	
4,4'-DDE	* .		220	· .	2.1	0.15	D C1
4,4'-DDT			320		2.1	0.18	D C1
Dieldrin .	ND				2.1	0.25	
Endosulfan I	ND				1	0.15	
Endosulfan II	ND				2.1	0.31	
Endosulfan sulfate	ND				2.1	0.31	
Endrin	ND				2.1	0.32	
Endrin aldehyde	ND				2.1	0.38	
Heptachlor	ND				1	0.11	
Heptachlor epoxide	ND				1	0.19	
Methoxychlor	ND				10	0.87	
Endrin ketone	ND				2.1	0.34	
Toxaphene	ND				100	12 .	*

Cascade Analytical, Inc. Client Name 01E-03384 E19-505 Client ID: 97642-12 Lab ID: 4/20/01 Date Received: 4/26/01 Date Prepared: 4/30/01 Date Analyzed: 90.44 % Solids 1 Dilution Factor

Organochlorine Pesticides by USEPA Method 8081A

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	64.2		49	134
Decachlorobiphenyl	22.6	X9	41	145

			Result					
Analyte			(ug/kg)		PQL		MDL	Flags
Aldrin	١	1D				1	0.1	
alpha-BHC	١	1D				7	0.14	
beta-BHC	١	1D				1	0.23	
delta-BHC	1	1D				1	0.14	
gamma-BHC (Lindane)	1	۱D				1	0.19	
Chlordane (technical)	1	۷D				10	7.1	
4,4'-DDD `	1	۷D			t Turking	2	0.12	
4,4'-DDE				410		2 .	0.14	D C1
4,4'-DDT				620		2	0.18	D C1
Dieldrin .	1	۷D				2	0.25	
Endosulfan I	1	۷D				1	0.15	
Endosulfan II				1.8		2	0.3	J C2
Endosulfan sulfate	1	۷D				2	0.3	
Endrin	1	۷D				2	0.32	•
Endrin aldehyde	1	۷D				2	0.37	
Heptachlor	1	۷D				1	0.11	
Heptachlor epoxide	10	۷D				1	0.18	
Methoxychlor	1	۷D				10	0.85	
Endrin ketone	1	۷D				2 .	0.33	
Toxaphene	1	ND			· 1	100	12	

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-03392
 — SO (

 Lab ID:
 97642-13
 — SO (

 Date Received:
 4/20/01

 Date Prepared:
 4/26/01

 Date Analyzed:
 4/30/01

 % Solids
 92.83

 Dilution Factor
 1

Organochlorine Pesticides by USEPA Method 8081A

•			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	81.9	•	49	134
Decachlorobiphenyl	27.8	X9	41 -	145

		Result	,		
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND		1.1	0.11	
alpha-BHC	ND		1.1	0.15	
beta-BHC	ND		1.1	0.24	
delta-BHC	ND		1.1	0.14	
gamma-BHC (Lindane)	ND		1.1	0.2	
Chlordane (technical)	ND		. 11	7.5	
4,4'-DDD	. ND		2.1	0.13	
4,4'-DDE		560	2.1	0.15	D C1
4,4'-DDT		870	2.1	0.19	D C1
Dieldrin	ND		2.1	0.26	
Endosulfan I	ND		1.1	0.16	
Endosulfan II		3.1	2.1	0.32	C1
Endosulfan sulfate	- ND		2.1	0.32	
Endrin	ND		2.1	0.33	
Endrin aldehyde	ND		2.1	0.39	
Heptachlor	ND		. 1.1	0.12	
Heptachlor epoxide	ND		1.1	0.19	
Methoxychlor	ND	•	11	0.89	
Endrin ketone	ND	•	2.1	0.35	
Toxaphene ·	, ND		110	13	

Cascade Analytical, Inc. Client Name 01E-03396 £ 27-501 Client ID: 97642-14 Lab ID: 4/20/01 Date Received: 4/26/01 Date Prepared: 4/28/01 Date Analyzed: 93.13 % Solids Dilution Factor 1

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	83.4		49	134
Decachlorobiphenyl	46.1		41	145

		Result			r		
Analyte		(ug/kg)		PQL		MDL	Flags
Aldrin	ND				1.1	0.11	
alpha-BHC	ND				1.1	0.15	
beta-BHC			2.8		1.1	0.24	C1
delta-BHC	ND				1.1	0.14	
gamma-BHC (Lindane)	ND				1.1	0.2	
Chlordane (technical)	ND				11	7.4	
4,4'-DDD			1.3	İ	2.1	0.12	J C2
4,4'-DDE		/	28	it are	2.1	0.15	C1
4,4'-DDT			27		2.1	0.18	C1
Dieldrin	ND				2.1	.0.26	
Endosulfan I	ND				1.1	0.16	
Endosulfan II	ND				2.1	0.31	
Endosulfan sulfate	ND				2.1	0.31	·
Endrin	ND				2.1	0.33	
Endrin aldehyde	. ND				2.1	0.39	
Heptachlor	ND				1.1	0.12	
Heptachlor epoxide	ND				1.1	0.19	
Methoxychlor	ND				11	0.89	
Endrin ketone	ND				2.1	0.34	•
Toxaphene	ND				110	13	

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-03397 € 27 - 503

 Lab ID:
 97642-15

 Date Received:
 4/20/01

 Date Prepared:
 4/26/01

 Date Analyzed:
 4/28/01

 % Solids
 84.9

 Dilution Factor
 1

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	60.7		49	134	
Decachlorobiphenyl	45.4		41	145	

		Result	PQL	MDL	Flags
Analyte		ug/kg)			riags
Aldrin	ND		1.1	0.11	
alpha-BHC	ND		1.1	0.15	
beta-BHC		7.7	1.1	0.24	C1
delta-BHC	ND		1.1	0.14	
gamma-BHC (Lindane)	ND		1.1	0.2	
Chlordane (technical)	ND		11	7.5	
4,4'-DDD	ND	· ·	2.2	0.13	
4,4'-DDE		1.6	2.2	0.15	JC1
4,4'-DDT		1.8	2.2	0.19	JC1
, Dieldrin	ND		2.2	0.26	
Endosulfan I	ND		1.1	0.16	
Endosulfan II	ND		2.2	0.32	
Endosulfan sulfate	ND		2.2	0.32	
Endrin	ND		2.2	0.33	
Endrin aldehyde	ND		2.2	0.4	
Heptachlor	ND		1.1	0.12	
Heptachlor epoxide	ND		. 1.1	0.19	
Methoxychlor	ND		11	0.9	
Endrin ketone	ND		2.2	0.35	*
Toxaphene	ND		110	13	

Cascade Analytical, Inc. Client Name 01E-03399 E Client ID: 97642-16 Lab ID: 4/20/01 Date Received: 4/26/01 Date Prepared: 5/1/01 Date Analyzed: 89.78 % Solids 1 Dilution Factor

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	74.8		49	134
Decachlorobiphenyl	43.3		41	145

· · · · · · · · · · · · · · · · · · ·		Result	DC	NI.	MDI	Clare
Analyte		(ug/kg)	PC		MDL	Flags
Aldrin	ND			1.1	0.11	
alpha-BHC	ND			1.1	0.15	
beta-BHC	ND			1.1	0.25	
delta-BHC	ND			1.1	0.15	
gamma-BHC (Lindane)	ND			1.1	0.21	
Chlordane (technical)	ND			11	7.7	
4,4'-DDD	ND		1	2.2	0.13	
4,4'-DDE		5.	2	2.2	0.15	C1
4,4'-DDT		2	8	2.2	0.19	C1
Dieldrin		2.	3	2.2	0.27	C1
Endosulfan I	ND			1.1	0.16	
Endosulfan II	ND			2.2	0.32	
Endosulfan sulfate	i.	2.	8	2.2	0.33	C1
Endrin	ND	•		2.2	0.34	
Endrin aldehyde	ND			2.2	0.41	
Heptachlor	ND			1.1	0.12	
Heptachlor epoxide	ND			1.1	0.2	
Methoxychlor	ND			11	0.92	
Endrin ketone	ND			2.2	0.36	
Toxaphene	ND			110	13	

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-03400 = 3 \ -503

 Lab ID:
 97642-17

 Date Received:
 4/20/01

 Date Prepared:
 4/26/01

 Date Analyzed:
 5/1/01

 % Solids
 90.42

 Dilution Factor
 1

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	70.2		49	134	
Decachlorobiphenyl	53.5		41	145	

		Result	Б		MDL	Flogs
Analyte		(ug/kg)	P	QL		Flags
Aldrin	ND			1.1	0.11	
al ph a-BHC	ND			1.1	0.15	
beta-BHC	ND			1.1	0.25	
delta-BHC	ND			1.1	0.14	
gamma-BHC (Lindane)	ND			1.1	0.2	
Chlordane (technical)	ND			11	7.6	
4,4'-DDD	ND		•	2.2	0.13	
4,4'-DDE		, 2	0	2.2	0.15	C1
4,4'-DDT		16		2.2	0.19	C1
Dieldrin			.0	2.2	0.26	C1
Endosulfan I	ND			1.1	0.16	
Endosulfan II		3	.7	2.2	0.32	C1
Endosulfan sulfate	ND			2.2	0.32	
Endrin	ND			2.2	0.34	
Endrin aldehyde	ND			2.2	0.4	,
Heptachlor	ND			1.1	0.12	,
Heptachlor epoxide	ND			1.1	0.19	
Methoxychior	ND			11	0.91	
Endrin ketone	ND			2.2	. 0.35	
Toxaphene	ND			110	13	

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-03401
 £ 32 - \$0 (

 Lab ID:
 97642-18
 £ 32 - \$0 (

 Date Received:
 4/20/01

 Date Prepared:
 4/26/01

 Date Analyzed:
 5/1/01

 % Solids
 88.16

 Dilution Factor
 1

Organochlorine Pesticides by USEPA Method 8081A

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	87.7		49	134
Decachlorobiphenyl	51.7		41	145

		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND		1.1	0.11	
alpha-BHC	ND		1.1	0.15	
beta-BHC	ND		1.1	0.24	
delta-BHC	, ND		1.1	0.14	
gamma-BHC (Lindane)	ND		1.1	0.2	
Chlordane (technical)	ND		11	7.5	
4,4'-DDD	ND		2.1	0.13	
4,4'-DDE		3.1	2.1	0.15	C1
4,4'-DDT		1.8	2.1	0.19	J C1
Dieldrin	ND		2.1	0.26	
Endosulfan I	ND		1.1	0.16	
Endosulfan II	ND		2.1	0.32	
Endosulfan sulfate		4.7	2.1	0.32	C1
Endrin	ND		2.1	0.33	
Endrin aldehyde	ND		2.1	0.4	
Heptachlor	ND		1.1	0.12	
Heptachlor epoxide	ND		1.1	0.19	
Methoxychlor	ND ND	-	11	0.89	•
Endrin ketone	ND		2.1	0.35	
Toxaphene	ND.		110	13	

Organochlorine Pesticides by USEPA Method 8081A

•			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	85.1		49	134	
Decachlorobiphenyl	46.1		41	145	

Analyte		Result (ug/kg)	F	PQL	MDL	Flags
Aldrin	ND	(-3/-3/	, .	1.1	0.11	•
alpha-BHC	ND			1.1	0.15	
beta-BHC	ND			1.1	0.24	
	ND			1.1	0.14	
delta-BHC (Lindana)	ND			1.1	0.2	
gamma-BHC (Lindane)	ND			11	7.5	
Chlordane (technical)	ND		Ì	2.2	0.13	
4,4'-DDD	ND	2	6	2.2	0.15	C1
4,4'-DDE		1		2.2	0.19	C1
4,4'-DDT			2	2.2	0.26	JC1
Dieldrin	ND-		۷.	1.1	0 .16	
Endosulfan I	. IND-	1.	4	2.2	0.32	JC1
Endosulfan II	NID.	i.	ı	2.2	0.32	00.
Endosulfan sulfate	ND			2.2	0.33	
Endrin	ND				0.4	
Endrin aldehyde	ND			2.2	0.12	
Heptachlor	ND			1.1		
Heptachlor epoxide	ND			1.1	0.19	
Methoxychlor	ND			11	0.9	
Endrin ketone	ND			2.2	0.35	
Toxaphene	. ND			110	13	

Cascade Analytical, Inc. Client Name Client ID: 97642-20 Lab ID: E21-501 4/20/01 Date Received: 4/26/01 Date Prepared: 4/28/01 Date Analyzed: 93.99 % Solids Dilution Factor 1

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	55.3	•	49	134	
Decachlorobiphenyl	17.7	X9	41	145	

		Result	PQL	MDL	Flags
Analyte		(ug/kg)	1.1	0.11	i lugo
Aldrin	ND			0.15	
alpha-BHC	ND		1.1		
beta-BHC	ND		1.1	0.24	
delta-BHC	ND		1.1	- 0.14	
gamma-BHC (Lindane)	ND		1.1	0.2	
Chlordane (technical)	ND		11	7.4	
4,4'-DDD	ND		2.1	0.12	
4,4'-DDE		110	2.1	0.15	C1
4,4'-DDT		100	2.1	0.18	C1
Dieldrin		6.9	2.1	0.26	, C1
Endosulfan I	ND		1.1	0.16	
Endosulfan II	ND		2.1	0.31	
Endosulfan sulfate	ND		2.1	0.31	
Endrin	ND		2.1	0.33	
Endrin aldehyde	ND		2.1	0.39	
Heptachlor .	ND		··· 1.1	0.12	
Heptachlor epoxide	ND		1.1	0.19	
Methoxychlor	ND	r	11	0.88	
Endrin ketone	ND		2.1	0.34	
Toxanhene	ND		110	13	

Lab ID:

Method Blank - OS0029

Date Received:

Date Prepared: 4/23/01
Date Analyzed: 4/24/01

% Solids

Dilution Factor

10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	84		46	129
Triphenyl Phosphate	99.8		53	135

Sample results are on an as received basis.

	Result		MDI Eleve
Analyte	(ug/kg)	PQL	MDL Flags
Dichlorvos	ND	6.7	2.1
Mevinphos	ND	6.7	2.5
Demeton,O-S	ND	6.7	1.8
Ethoprop	ND	10	4
Naled	ND .	20	6.9
Sulfotepp	ND	6.7	1.8
Monocrotophos	ND	6.7	1.5
Phorate	ND .	10	2.7
Dimethoate	ND	13	3.9
Diazinon	ND	20	8.2
Disulfoton	ND	13	5.1
Parathion, methyl	ND	10	2.6
Ronnel	ND	6.7	2.4
Malathion	ND	10	3.8
Chlorpyrifos	ND	10	2.7
Fenthion	ND	10	3.7
Parathion	ND	6.7	2.3
Trichloronate	ND	· 10	2.9
Tetrachlorvinphos	ND	6.7	1.6
Fensulfothion	ND	10	3.2
Tokuthion	ND	10	2.8
Merphos	ND	20	7.9
Bolstar	ND	6.7	'2.3
EPN	ND	10	
Azinphos,methyl	ND	6.7	2.6
Coumaphos	ND	10	4.6

Blank Spike Report

 Lab ID:
 OS0029

 Date Prepared:
 4/23/01

 Date Analyzed:
 4/24/01

 QC Batch ID:
 OS0029

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

Blank Result (ug/kg) 0 0	Spike Amount (ug/kg) 670 670	BS Result (ug/kg) 565 589 713	BS % Rec. 85 88 107	Flag
0	670	489	73	
	Result (ug/kg) 0 0 0	Result Amount (ug/kg) (ug/kg) 0 670 0 670 0 670	Result Amount Result (ug/kg) (ug/kg) (ug/kg) 0 670 565 0 670 589 0 670 713	Result Amount Result BS (ug/kg) (ug/kg) (ug/kg) % Rec. 0 670 565 85 0 670 589 88 0 670 713 107

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID:

Lab ID:

Date Prepared: Date Analyzed:

QC Batch ID:

SNAKE LAKE INLET

97634-01

4/23/01

4/24/01

OS0029

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

Compound Name	Sample Result (ug/kg)	Spike Amount (ug/kg)	MS Result (ug/kg)	MS % Rec.	MSD Result (ug/kg)	MSD % Rec.	RPD	Flag
Diazinon	0	756	575	76.1	558	72.2	-5.3	
Malathion	0	756	655	86.6	677	87.7	1.3	
Chlorpyrifos	0	756	867	115	700	90.6	-24	
Azinphos,methyl	0	756	579	76.6	603	78.1	1.9	

Lab ID:

Method Blank - HS0063

Date Received:

Date Prepared: Date Analyzed: 4/23/01 4/24/01

% Solids
Dilution Factor

10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	97.2		72	130

Sample results are on an as received basis.

•	Result		
Analyte	(ug/kg)	PQL	MDL Flags
Dalapon	ND	6.7	2
4-Nitrophenol	ND	6.7	1.5
Dicamba	ND	6.7	1.6
Dichloroprop	ND	6.7	0.71
2,4-D	ND	6.7	0.55
Pentachlorophenol	ND	6.7	0.78
Silvex (2,4,5-TP)	ND	¹ > 6.7	2.1
2,4,5-T	ND	6.7	1.5
Dinoseb	ND	6.7	0.55
2,4-DB	ND	6.7	0.93
MCPP	ND ,	<u> </u>	1.8
MCPA	ND	6.7	1

Blank Spike Report

Lab ID: HS0063
Date Prepared: 4/23/01
Date Analyzed: 4/24/01
QC Batch ID: HS0063

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

Parameter Name Dalapon Dicamba 2,4-D	Blank Result (ug/kg) 0 0	Spike Amount (ug/kg) 670 670	BS Result (ug/kg) 251 666 609	BS % Rec. 38 100 91	Flag
Pentachlorophenol	0	670	675	101	
Silvex (2,4,5-TP)	0	670	609	91	
Dinoseb MCPP	0 0	670 670	705 693	106 104	

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID:

Lab ID:

Date Prepared: Date Analyzed:

QC Batch ID:

01E-03362

97642-06

4/23/01

4/24/01

HS0063

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

	Sample Result	Spike Amount	MS Result	MS	MSD Result	MSD		
Compound Name	(ug/kg)	(ug/kg)	(ug/kg)	% Rec.	(ug/kg)	% Rec.	RPD	Flag
Dalapon	0	705	233	33	258	36.9	11	
Dicamba	0	705	651	92.4	665	95.2	3	
2,4-D	0	705	542	76.9	526	75.3	-2.1	
Pentachlorophenol	0	705	661	93.8	610	87.3	-7.2	
Silvex (2,4,5-TP)	0	705	566	80.3	545	78	-2.9	
Dinoseb	0	705	592	84	566	81.1	-3.5	
MCPP	0	705	614	87.1	576	82.5	-5.4	

Lab ID:

Method Blank - PE1372

Date Received:

Date Prepared:

4/26/01 4/27/01

Date Analyzed: % Solids

Dilution Factor

Organochlorine Pesticides by USEPA Method 8081A

			Recov	ery Limits
Surrogate Tetrachloro-m-xylene	% Recovery 95.8	Flags	Low 49	High 134
Decachlorobiphenyl	89.8		41	145

Sample results are on an as received basis.

	Result			
Analyte	(ug/kg)	PQL	MDL	Flags
Aldrin	ND	1	0.1	
alpha-BHC	ND	1	0.14	
beta-BHC	ND	· 1	0.23	
delta-BHC	ND	1	0.13	
gamma-BHC (Lindane)	ND	1	0.19	
Chlordane (technical)	ND	10	7	
4,4'-DDD	ND	12	0.12	
4,4'-DDE	ND	2	0.14	
4,4'-DDT	ND	2	0.17	
Dieldrin	ND	2	.0.24	
Endosulfan I	ND	1	0.15	
Endosulfan II	ND	2	0.3	
Endosulfan sulfate	ND	2	0.3	
	ND	2	0.31	
Endrin	ND	2	0.37	
Endrin aldehyde	ND		0.11	
Heptachlor		· 1	0.18	
Heptachlor epoxide	ND	10	0.83	
Methoxychlor	ND		0.32	
Endrin ketone	ND ·	2	12	
Toxaphene	ND	. 100	12	



SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID: Date Prepared: Date Analyzed: QC Batch ID: PE1372 4/26/01 4/27/01 PE1372

Organochlorine Pesticides by USEPA Method 8081A

	Blank Result	Spike Amount	BS Result	BS	BSD Result	BSD		
Compound Name	(ug/kg)	(ug/kg)	(ug/kg)	% Rec.	(ug/kg)	% Rec.	RPD	Flag
Aldrin	0	25	21.8	87.1	21.9	87.7	0.69	
gamma-BHC (Lindane)	0	25	20.9	83.4	21	84.1	0.84	
4,4'-DDT	0	50	47.1	94.3	46.8	93.6	-0.75	
Dieldrin	0	50	45.3	90.7	45.3	90.6	-0.11	
Endrin	0	50	48.1	96.3	47.5	95	-1.4	
Heptachlor	0	25	25.8	103	25.7	103	0	

Sound Analytical Services, Inc.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID: Lab ID:

Date Prepared: Date Analyzed: QC Batch ID: 01E-03460 97642-20

4/26/01 4/28/01 PE1372

Organochlorine Pesticides by USEPA Method 8081A

Compound Name Aldrin	Sample Result (ug/kg)	Spike Amount (ug/kg) 24.9	MS Result (ug/kg) 17.3	MS % Rec. 69.4	MSD Result (ug/kg) 15.2 18.9	MSD % Rec. 64.5 80.1	RPD -13 -7.6	Flag
gamma-BHC (Lindane) 4,4'-DDT	0 94	24.9 49.9	20.4 185	82 182	158	134	-16	X7a
Dieldrin Endrin Heptachlor	6.4 0 0	49.9 49.9 24.9	47.8 43.5 21.3	82.9 87.2 85.3	43.2 38.7 18.6	77.8 81.9 78.7	-10 -12 -14	

Sound Analytical Services, Inc.

ANALYTICAL & ENVIRONMENTAL CHEMISTS 5755 8th Street East O Tacoma, WA 98424 (253) 922-2310 o FAX (253) 922-5047

e-mail: info@saslab.com



DATA QUALIFIERS AND ABBREVIATIONS

- This analyte was detected in the associated method blank. The analyte concentration was determined not to be B1: significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- This analyte was detected in the associated method blank. The analyte concentration in the sample was determined B2: to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- Second column confirmation was performed. The relative percent difference value (RPD) between the results on C1: the two columns was evaluated and determined to be < 40%.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated E: quantity.
- The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity. J:
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- N: See analytical narrative.
- ND: Not Detected ...
- PQL: Practical Quantitation Limit
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be ______.
- X2: Contaminant does not appear to be "typical" product.
- Identification and quantitation of the analyte or surrogate was complicated by matrix interference. X3:
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation X4a: limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was reanalyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- Surrogate recovery outside advisory QC limits due to matrix interference.



CASCADE ANALYTICAL, INC.

3019 G.S. Center Rd. Wenatchee, WA 98801

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

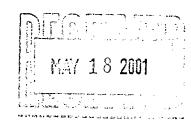
Sampler: Brad Ziegler Date Sampled: 4/20/01 Date Received: 4/20/01

Report Date: 5/15/01

Quality Assur

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

itch number 101553



 	 Bla	nk_	Ana.	lysis
	 		D 1	A 1

- 1				
	Analyte	Units	Blank Results	Date Analyzed
1				
	As Total Pb Total Pb Total	ug/L ug/l ug/l	< 0.5 < 0.5	5/ 3/01 4/27/01 4/27/01



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Sampler! Dave Nitchels Date Sampled: Date Received: 4/19/01 Report Date: 5/15/01

Report Quality Assurance

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101510

Analyte	Units	Blank Results	Date Analyzed		4
As/Total	ug/L	< 150	4/26/01		
As Total	ug/L	< 2500	4/27/01		
Ba Total	ug/l	< 100	4/25/01		
Ba/Total	ug/l	< 100	5/ 4/01	-	
Cd_Total	ug/l	< 300	4/25/01		
Cd Total	ug/l	< 300	5/ 4/01		•
Cr/Total	ug/l	< 225	4/25/01		
r Total	ug/l	< 225	5/ 4/01		
Pb, Total	ug/l	< 2100	4/25/01		
Pb Total	ug/l	< 2100	4/27/01		-
Hg Total	ug/Kg	< 0.3	4/25/01		,
Hg Total	ug/Kg	< 15	4/25/01	# 100 miles	
Hg Total	ug/Kg	< 0.3	4/27/01	•	
Hg Total	ug/Kg	< 15	4/27/01	•	
Se Total	ug/l	< 250	4/27/01	٠.	
Ag Total	ug/l	< 125	5/ 7/01		



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: Brad Ziegler Date Sampled: 4/20/01

Date Received: 4/20/01 Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Batch number 101553

Spike Results

Acceptable Limits = 75 - 125 %

1				vecehegar	C DIMIT			•	
{	Ana	alyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery
-						< 3	25.0	26.6	106
		Total		5/ 3/01	ug/L	< 3	25.0	26.6	106
			01-E003597	5/ 3/01	ug/L	< 0.5	5.0	4.7	94
t			01-E003044	4/27/01	ug/l	< 0.5	5.0	4.7	94
1	pو		01-E003044	4/27/01	ug/l	< 0.5	5.0	4.6	92
1	р		01-E003308	4/27/01	ug/l	< 0.5	5.0	4.5	90
1	Pb		01-E003308	4/27/01	ug/l	0.7	5.0	5.4	94
1	Pb		01-E003597	4/27/01	ug/l	0.7	5.0	5.5	96
	Pb		01-E003597	4/27/01	ug/l	11·1000	25000	141000	120
1			01-E003396	4/26/01	ug/L	111000	25000	138000	108
			01-E003396	4/26/01	ug/L	3430	25000	26900	94
			01-E003357	4/26/01 4/26/01	ug/L	3430	25000	27500	96
!			01-E003357	4/26/01	ug/L	2660	25000	27000	97
ł			01-E003361	4/26/01	ug/L ug/L	2660	25000	27100	98
1			01-E003361	5/ 3/01	ug/L ug/L	< 3	25.0	26.6	106
!			01-E003597	5/ 3/01	ug/L ug/L	< 3	25.0	26.6	106
			01-E003597	4/27/01	ug/L ug/L	5500.	25000	27250	87
1			01-E003368	4/27/01	_	5500.	25000	26750	85
			01-E003368	4/27/01	ug/L ug/L	< 2500	25000	19550	78
			01-E003380 01-E003380	4/27/01	ug/L ug/L	< 2500	25000	19180	77
-			01-E003388	4/27/01	ug/L ug/L	< 2500 < 2500	25000	25500	102
			01-E003388	4/27/01	ug/L ug/L	< 2500 < 2500	25000	30500	122
1			01-E003388 01-E003401	4/27/01	ug/L ug/L	14120	☑ 25000 :::	33750	79
	- 134 a 1997	I have been a single the sil	01-E003401	4/27/01	ug/L ug/L	14120		33250	77
		然一点 网络美国共和国美国的复数形式	化学数据 南京 经经验证金 医抗抗性病 化新原物 经经验的销售部署			67750 J	25000 <u></u>	£89250	
		Carried and the second section of the second section is	01-E003545	4/27/01	Transfer Carolina	67750	25000	90000	89
ļ			01-E003545	5/ 3/01	ug/L	62250	25000	82000	79
1	As		01-E003563		ug/L	62250	25000	3 82250 ···	80
			01-E003563	5/ 3/01	ug/L	2575.	25000	23880	85
-	As		01-E003573	5/ 3/01	ug/L	2575.	25000	24400	87
ł	100		01-E003573	5/ 3/01	ug/L	•	10000	86200	132 X7a
	ي_a		01-E003396	4/25/01	ug/l	73000	10000	95800	228 X7a
1	* * Ba	Total	01-E0033396	4/25/01	, ug/l	73000	TANAA	7000	ZZU A/U

approved by July A LOG

Page: . 1



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: David Nitchels Date Sampled: 4/19/01 Date Received: 4/23/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

batch number 101554

Spike Results

Date Original Spike Amount Percent Analyte Sample ID Analyzed Units Result Amount Found Recovery	7	 		Acceptabl	e Limit	s = 75 - 1	25 %		
Cd Total 01-E003396	An	alyte	Sample ID		Units	_	•		
Cd Total 01-E003396							'		
Cr Total 01-E003396	, Cq	Total							
Tr Total 01-E003396	Cd	Total			_				
D Total 01-E003044	Cr	Total			_				
Pb Total 01-E003044 4/27/01 ug/l < 0.5 5.0 4.7 94 Pb Total 01-E003308 4/27/01 ug/l < 0.5 5.0 4.6 92 Pb Total 01-E003308 4/27/01 ug/l < 0.5 5.0 4.6 92 Pb Total 01-E003597 4/27/01 ug/l	fr	Total			_				
Pb Total 01 - E003308 4/27/01 ug/1 < 0.5 5.0 4.6 92 Pb Total 01 - E003308 4/27/01 ug/1 < 0.5 5.0 4.5 90 Pb Total 01 - E003597 4/27/01 ug/1 0.7 5.0 5.4 94 Pb Total 01 - E003597 4/27/01 ug/1 0.7 5.0 5.5 96 Pb Total 01 - E003396 4/25/01 ug/1 12400 25000 34500 88 Pb Total 01 - E003396 4/25/01 ug/1 12400 25000 33000 82 Pb Total 01 - E003357 4/25/01 ug/1 6200 25000 25000 75 Pb Total 01 - E003357 4/25/01 ug/1 6200 25000 25000 75 Pb Total 01 - E003361 4/25/01 ug/1 6300 25000 26000 79 Pb Total 01 - E003361 4/25/01 ug/1 6300 25000 26200 80 Pb Total 01 - E003368 4/27/01 ug/1 6300 25000 26500 85 Pb Total 01 - E003368 4/27/01 ug/1 5350 25000 25800 82 Pb Total 01 - E003380 4/27/01 ug/1 4400 25000 22500 72 X7 Pb Total 01 - E003388 4/27/01 ug/1 4400 25000 23000 75 Pb Total 01 - E003388 4/27/01 ug/1 4350 25000 23000 75 Pb Total 01 - E003388 4/27/01 ug/1 4350 25000 24500 81 Pb Total 01 - E003401 4/27/01 ug/1 4950 25000 22300 69 X7 Pb Total 01 - E003401 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003401 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003401 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003545 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003545 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003545 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003545 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003545 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003545 4/27/01 ug/1 4950 25000 22300 74 X7 Pb Total 01 - E003545 4/27/01 ug/1 4950 2	(b	Total	01-E003044		_		4.4.4		
Pb Total 01-E003308	Pb	Total	01-E003044	4/27/01	ug/l		and the second s		
Pb Total 01-E003597	Pb	Total	01-E003308	4/27/01			and the second s		
Pb Total 01-E003397	Pb	Total	01-E003308	4/27/01	ug/l				
Pb Total 01-E003396	, Pb	Total	01-E003597	4/27/01					
Pb Total 01-E003396	Pb	Total	01-E003597	4/27/01					
Pb Total 01-E003357	Pb	Total	01-E003396	4/25/01	ug/l				
Pb Total 01-E003357	Pb	Total	01-E003396	4/25/01	ug/l	12400			
Pb Total 01-E003361 4/25/01 ug/l 6300 25000 27800 86 Pb Total 01-E003361 4/25/01 ug/l 6300 25000 26200 80 Pb Total 01-E003368 4/27/01 ug/l 5350 25000 26500 85 Pb Total 01-E003368 4/27/01 ug/l 5350 25000 25800 82 Pb Total 01-E003380 4/27/01 ug/l 4400 25000 22500 72 X7 Pb Total 01-E003380 4/27/01 ug/l 4400 25000 21300 68 X7 Pb Total 01-E003388 4/27/01 ug/l 4350 25000 23000 75 Pb Total 01-E003388 4/27/01 ug/l 4350 25000 24500 81 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22600 71 X7 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 223000 69 X7 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 223000 74 X7	Pb	Total	01-E003357	4/25/01	ug/l	6200	25000		
Pb Total 01-E003361	Pb	Total	01-E003357	4/25/01	ug/l	6200	25000	26000	
Pb Total 01-E003361			-	4/25/01		6300	25000	27800	
Pb Total 01-E003368	Pb	Total	01-E003361	4/25/01		6300	25000	26200	
Pb Total 01-E003368	Pb			4/27/01		5350	25000	26500	the second secon
Pb Total 01-E003380	Pb			4/27/01		5350	25000	25800	
Pb Total 01-E003380 4/27/01 ug/l 4400 25000 21300 68 X7 Pb Total 01-E003388 4/27/01 ug/l 4350 25000 23000 75 Pb Total 01-E003388 4/27/01 ug/l 4350 25000 24500 81 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22600 71 X7 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22300 69 X7 Pb Total 01-E003545 4/27/01 ug/l 11400 25000 29800 274 X7	Pb			4/27/01		4400	25000	22500	
Pb Total 01-E003388 4/27/01 ug/l 4350 25000 23000 75 Pb Total 01-E003388 4/27/01 ug/l 4350 25000 24500 81 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22600 71 X7 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22300 69 X7 Pb Total 01-E003545 4/27/01 ug/l 11400 25000 29800 74 X7	Pb	and the second second	and the second of the second o	4/27/01		4400	25000	21300	- 作品表示 三二 三二 二十 二 1 1 1 1 1 1 1 1 1
Pb Total 01-E003388 4/27/01 ug/l 4350 25000 24500 81 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22600 71 X7 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22300 69 X7 Pb Total 01-E003545 4/27/01 ug/l 11400 25000 29800 274 X7	1	The second secon	ひがんしょうしき しゅうしゅう かんしゅんかん かんしゅん	4/27/01		4350	25000	23000	医环状腺素 医二甲基甲基二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲
Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22600 71 X7 Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22300 5 69 X7 Pb Total 01-E003545 4/27/01 ug/l 11400 25000 29800 74 X7		to the first of the first warmer	化氯酚 化双氯基酚酚 化二甲基甲基酚 化双氯磺磺磺基甲基二甲基酚	4/27/01			25000	化邻苯甲酚 医皮肤性血经 化二十二烷 医二氯甲基酚 氮	
Pb Total 01-E003401 4/27/01 ug/l 4950 25000 22300 69 X7 Pb Total 01-E003545 4/27/01 ug/l 11400 25000 29800 74 X7	Pb	Total	01-E003401		W 1 - A - T. F - J. M. V 1000	4950	:: 25000 H	. 22600 🧼	CONSEQUENCE 1000 CONTRACTOR
Pb_Total_01_E0035454/27/01ug/l11400250002980074_X7	3 *C (20)	Contact in the property of the contact of the conta	的复数形式 化氯化甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲	医乳腺 机铁铁铁铁铁铁铁 计二十二人 医乳腺性病 医线性小脑膜炎线	N. S. C. E. G. S.	4950	25000	/§22300 📳	
	Sec iteer	がっ かだいてん コピコンル・ハースギ	· 经基本的公司的基础 12 人名英格兰尼亚德国 (1995年) 13 日本	(数: 44人を)は何にといる オマロケガ (名く)とします。 メリココジェイエジ		11400	25000	29800	
	200 0	Charles and Company of the contract	California Transfer California California de Transfer de Transfer de California de Cal	4/27/01	ug/l	11400	25000	30000	as well a
Pb Total 01-E003563 5/3/01 ug/l 5180 25000 25200 80	L	•		5/ 3/01		5180	25000	25200	80 _
Pb Total 01-E003563 5/ 3/01 ug/l 5180 25000 24900 79		**					25000	24900	
Pb Total 01-E003573 5/3/01 ug/l 5480 25000 24900 78					_		25000	24900	78
Rb Total 01-E003573 5/ 3/01 ug/l 5480 25000 24700 77	1				_		25000	24700	77
g Total 01-E003396 4/25/01 ug/Kg < 15 200.0 205.6 103	1 2 3				-			205.6	103
Hg Total 01-E003396 4/25/01 ug/Kg < 15 200.0 196.8 98		•							9 8



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: Brad Ziegler
Date Sampled: 4/20/01
Date Received: 4/20/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101553

Matrix Spike Duplicate Results

Acceptable Limits = 20 % RPD

Ana	alyte	Date Analyzed	Units	Original Spk. Result	Duplicate Spk. Results	% RPD
Δς	Total	5/ 3/01	ug/L	26.6	26.6	0.00
	Total	4/27/01	ug/l	4.7	4.7	0.00
	Total	4/27/01	ug/l	4.6	4.5	-2.20
	Total	4/27/01	ug/l	5.4	5.5	1.83
71.				141000	138000	-2.15
	Total	4/26/01	ug/L	26900	27500	2.21
	Total	4/26/01	ug/L	27000	27100	0.37
	Total	4/26/01	ug/L		26.6	0.00
	Total	5/ 3/01	ug/L	26,6	26750	-1.85
	Total	4/27/01	ug/L	27250		-1.91
	Total	4/27/01	ug/L	19550	19180	
	Total	4/27/01	ug/L	25500	30500	17.86
As	Total	4/27/01	ug/L	33750	33250	-1.49
As	Total	4/27/01	ug/L	89250	90000	0.84
As	Total	5/ 3/01	ug/L	82000	82250	0.30
As	Total -	5/ 3/01	ug/L	23880	24400	2.15
Ba	Total	4/25/01	ug/l	86200	95800	10.55
	Total	4/25/01	ug/l	108000	108000	0.00
	Total	4/25/01	ug/l	8050	8200	1.85
and the second second	Total	4/25/01	ug/l	7780	7780	0.00
	Total	4/25/01	ug/l	17200	17400	1.16
	Total	4/25/01	ug/l	17700	17800	0.56
and the second second	Total	4/27/01	ug/l	4.7	4.7	0.00
1.0	Total	4/27/01	ug/l	4.6	4.5	-2.20
	Total	4/27/01	ug/l	5.4 · 5. · 4351-5.	5.5	1.83
- 1853 along	Secretarian in the especial	间的双部分表示。 第二章	2017 P 17 TANK 1988 P 188	在 2016年1月1日 - 1916年1月1日 - 1916日 - 19	2000年1月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1月1日	的现在分词

pproved by Authority



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: David Nitchels Date Sampled: 4/19/01 Date Received: 4/23/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101554

Matrix Spike Duplicate Results

Acceptable Limits = 20 % RPD

Analyte	Date Analyzed	Units	Original Spk. Result	Duplicate Spk. Result	s % RPD
Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total Pb Total	4/25/01 4/25/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 5/ 3/01 5/ 3/01 4/25/01	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	34500 25000 27800 26500 22500 23000 22600 29800 25200 24900 205.6 23000	33000 26000 26200 25800 21300 24500 22300 30000 24900 24700 196.8	-4.44 3.92 -5.93 -2.68 -5.48 6.32 -1.34 0.67 -1.20 -0.81 -4.37 8.33
Ag Total	. 5/ 7/01	ug/l	3520	3480	-1.14

pproved by July

Page:

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(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: Brad Ziegler
Date Sampled: 4/20/01
Date Received: 4/20/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101553

-- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
As Total	Known	ug/L	30.5	30.6	100	5/ 3/01
As Total	Known	ug/L	50.2	50.0	100	5/ 3/01
As Total	LFB	ug/L	28.1	25.0	112	5/ 3/01
As Total	Known	ug/L	52.5	50.0	105	5/ 3/01
b Total	Known	ug/l	10.2	10.0	102	4/27/01
₹b Total	Known	ug/l	10.3	10.0	103	4/27/01
Pb Total	LFB	ug/l	5.0	5.0	100	4/27/01
Pb Total	Known	ug/l	10.3	10.0	103	4/27/01
Pb Total	LFB	ug/l	4.9	5.0	98	4/27/01
Pb Total	Known	ug/l	10.4	10.0	104	4/27/01
Pb Total	LFB	ug/l	5.0	5.0	700	4/27/01
Pb Total	Known	ug/l	10.5	' 10.0	105	4/27/01
Pb Total		ug/l	10.4	10.0	104	4/27/01
As Total		ug/L	28.7	.30.6	94	4/26/01
As Total		ug/L	·51.i	50.0	102	4/26/01
As Total	LFB	ug/L	25900	25000	104	4/26/01
	Known	ug/L	48.3	50.0	97	4/26/01
As Total	LFB	ug/L	25200	25000	101	4/26/01
As Total	Known	ug/L	46.9	50.0	94	4/26/01
As Total	LFB	ug/L	27200	25000	109	4/26/01
- As Total	Known		47.0	50.0	94	4/26/01
As Total	Known		49.1	50.0	_ 98 , , , ,	4/26/01
As Total	Known	ug/L	51.1	50.0	102	4/26/01
.As:Total	(Known 🚎 🚉	ug/L		30.6 _{.6} ,	100	/5/ ₋ 3/01
As Total	Known	ug/L		50.0	100	5/.3/01
As Total	EFB -	ug/L	28.1	25.0	112	5/3/01
As Total	Known	ug/L	52.5	50.0	105	5/ 3/01

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Jacob Jan

Page:

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(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: Dave Nitchels
Date Sampled: 4/18/01
Date Received: 4/19/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101510

14Y 18 2001

Matrix Spike Duplicate Results --

Acceptable Limits = 20 % RPD

Analyte	Date Analyzed	Units	Original Spk. Resul	Duplicate t Spk. Result	s % RPD	
			4.44.000	100000	-2.15	
As Total	4/26/01	ug/L	141000	138000		
As Total	4/26/01	ug/L	26900	27500	2.21	
As Total	4/26/01	ug/L	27000	27100	0.37	
As Total	4/27/01	ug/L	27250	26750	-1.85	
\s Total	4/27/01	ug/L	19550	19180	-1.91	
As Total	4/27/01	ug/L	25500	30500	17.86	
As Total	4/27/01	ug/L	33750	33250	-1.49	
As Total	4/27/01	ug/L	89250	90000	0.84	
Ba Total	4/25/01	ug/l	86200	95800	10.55	
Ba Total	4/25/01	ug/l	108000 ,	108000	0.00	
Ba Total	5/ 4/01	ug/l	86200	95800	10.55	
Cd Total	4/25/01	ug/l	8050	8200	1.85	
Cd Total	4/25/01	ug/l	7780	7780	0.00	
Cd Total	5/ 4/01	ug/l	8050	8200	1.85	
Cr Total	4/25/01	ug/l	17200	17400	1.16	
Cr Total	4/25/01	ug/l	17700	17800	0.56	
Cr Total	5/ 4/01	ug/l	17200	17400	1.16	-
Pb Total	4/25/01	ug/l	34500	33000	-4.44	
Pb Total	4/25/01	ug/l	25000	26000	3.92	
Pb Total	4/25/01	ug/l	27800	26200	-5.93	
_ Pb Total	4/27/01	ug/l	26500	25800	-2.68	
Pb Total	4/27/01	ug/1	22500	21300	-5.48	
Pb Total	4/27/01	ug/l	23000	24500	6.32	
Pb Total	4/27/01	ug/l	22600	22300	∴ (:,-1:34	4.46
Pb Total	4/27/01	ug/1	29800	30000 🐣	ッド Ø . 67	
Hg Total	4/25/01	ug/Kg			4.37	
Se Total	4/27/01	ug/l	23000	25000	8:33	
Ag Total	5/ 7/01	ug/l	3520	3480	-1.14	2 2 数
		J				

pproved by _

Tylet Nast

Page:

1



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: Dave Nitchels
Date Sampled: 4/18/01
Date Received: 4/19/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101510

Check Standard Analysis --

Acceptable Limits = 85 - 115 %

				•					
	Analyte	Known	ID	Units	Result	Target Value	Percent Recovery	Date Analyzed	
[As Total	Known	. – –	ug/L	28.7	30.6	94	4/26/01	
	As Total	Known		ug/L	51.1	50.0	102	4/26/01	
'	As Total	LFB		ug/L	25900	25000	104	4/26/01	
	As Total	Known		ug/L	48.3	50.0	97	4/26/01	
ļ	As Total	LFB		ug/L	25200	25000	101	4/26/01	
	As Total	Known		ug/L	46.9	50.0	94	4/26/01	
*	As Total	LFB		ug/L	27200	25000	109	4/26/01	
	As Total	Known		ug/L	47.0	50.0	94	4/26/01	:
	As Total	Known		ug/L	49.1	50.0	98	4/26/01	
	As Total	Known		ug/L	51.1	50.0	102	4/26/01	
	As Total	known		ug/L	2300.	2000.	115	4/27/01	
	As Total	LFB		ug/L	24200	25000	97	4/27/01	
	As Total	known		ug/L	2280.	2000.	114	4/27/01	
!	As Total			ug/L	1970.	2000.	98	4/27/01	
	As Total	LFB		ug/L	21500	25000	86	4/27/01	4
ı	As Total	known		ug/L	1970.	2000.	98	4/27/01	188
,	As Total	LFB		ug/L	22600	25000	90	4/27/01	
1	As Total	known		ug/L	1990.	2000.	100	4/27/01	
l	As Total	LFB		ug/L	21580	25000	86	4/27/01	
	As Total	Known		ug/L	2030.	2000.	102	4/27/01	
ĺ	As Total	known		ug/L	2050.	2000.	102	4/27/01	
	As Total	LFB		ug/L	22100	25000	88	4/27/01	
	As Total	Known		ug/L	2050.	2000.	102	4/27/01	
[Ba Total	"LFB		ug/l	9250	10000	, 92	4/25/01	
	Ba;Total	known		ug/l	2060	2000 🚃 💨	. 103	4/25/01	4.10
	Ba Total	LFB		-ug/l/-	9550	10000	. 96	4/25/01	
933 [Ba Total	known	SENSONS SELVERS	ug/l	2100	2000	105	4/25/01	Talan
	Ba Total	LFB		ug/l	9250	10000	92	5/ 4/01	4 分型器
,	Ba Total	known		ug/l	2060 .	2000	103	5/ 4/01	1
	4.5	•			•	the second of th		eg e e e e e e e e e e e e e e e e e e	

pproved by James Market



3019 G.S. Center Rd. Wenatchee, WA 98801 (509) 662-1888

Fax: (509) 662-8183 1-800-545-4206 . Account: 197

Sampler: Dave Nitchels
Date Sampled: 4/18/01
Date Received: 4/19/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

itch number 101510

Check Standard Analysis --

Acceptable Limits = 85 - 115 %

alyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
				10000	90	4/25/01
		_				4/25/01
						4/25/01
						4/25/01
and the second second						5/ 4/01
						5/ 4/01
	· ·					4/25/01
	10.0	* . -				4/25/01
	known					4/25/01
Total	LFB					
	known	_	and the second s			4/25/01
Total	LFB		2			5/ 4/01
Total	known					5/ 4/01
Total	known	ug/l				4/25/01
Total	LFB	ug/l	· ·			4/25/01
Total	known	ug/l				4/25/01
Total	LFB	ug/l	24800			4/25/01
Total	known	ug/l	2200			4/25/01
		ug/l	26000			4/25/01
	Known	ug/l	2230	A		4/25/01
	of the state of th		2180	2000		4/27/01
and the second of the second o	しずれ しょう ニュー・・・ もっけっし いんしんたいしょ だけり ビデリン		24600	25000		4/27/01
The Control of the Co	2011 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		2160	2000	108	4/27/01
A CONTRACTOR OF THE PARTY OF TH	があい かいさい フェー・アイド 化物 動き はたがけ はんしょく いっかい	4	°1860	2000	93	4/27/01
 (2) (2) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	2. 美国 14. 14. 14. 14. 14. 14. 14. 14. 14. 14.	\$5000 OF	21400	25000	86	4/27/01
error on the first and all the contractions.	(2) A Each of the Annual Control of the Ann	おおいけんと、こことはアイスを変数であることが必要	是我们,在"说",但是是是这个人的人,就是一个人的	2000	92	4/27/01
さいさんさん ひょうかいか のまたのは	化金属环状物 化二氯甲基酚 医多异形的 计多数 化氯甲基甲基甲基甲基甲基甲基	2010 Park 12 17 17 17 17 17 17 17 17 17 17 17 17 17	医克里里斯 医二苯酚 经国际股份股份的股份股份	25000 🚁 🖫	93	4/27/01
かんぎょうけん しかっていく ・ かんだまごしん	A STATE OF THE PARTY OF THE PAR	SERVICE THE PROPERTY OF A STATE O	and the last at the second at the second second second second second	2000	94	4/27/01
	·	_			86	4/27/01
	*	· -				4/27/01
	·	_	• ';			4/27/01
		_	· ·			4/27/01
		_				4/27/01
lotar	VUOAU	uy/I	1720	2000		
	Total Total Total Total Total Total	Total LFB Total known Total LFB	Total LFB ug/l Total known ug/l Total LFB ug/l Total known ug/l Total LFB ug/l Total known ug/l Total LFB ug/l Total known ug/l Total LFB ug/l Total known ug/l Total LFB ug/l Total known ug/l Total LFB ug/l Total known ug/l Total LFB ug/l Total known ug/l Total known ug/l Total known ug/l Total LFB ug/l Total known ug/l Total LFB ug/l Total Known ug/l Total LFB ug/l Total Known ug/l Total Known ug/l Total Known ug/l Total Known ug/l Total Known ug/l Total LFB ug/l Total known ug/l Total Known ug/l Total LFB ug/l Total Known ug/l Total LFB ug/l Total Known ug/l Total LFB ug/l Total Known ug/l Total LFB ug/l Total Known ug/l Total LFB ug/l Total Known ug/l Total LFB ug/l Total Known ug/l Total LFB ug/l Total Known ug/l Total LFB ug/l Total Known ug/l	Total LFB	Total LFB ug/l 2070 2000 Total known ug/l 2070 2000 Total known ug/l 2070 2000 Total known ug/l 2090 2000 Total known ug/l 2090 2000 Total known ug/l 2090 2000 Total LFB ug/l 9020 10000 Total known ug/l 2070 2000 Total known ug/l 2070 2000 Total known ug/l 8650 10000 Total LFB ug/l 8650 10000 Total known ug/l 1890 2000 Total known ug/l 1880 2000 Total known ug/l 1880 2000 Total LFB ug/l 8650 10000 Total LFB ug/l 8650 10000 Total LFB ug/l 8650 10000 Total known ug/l 1890 2000 Total known ug/l 1890 2000 Total known ug/l 2060 2000 Total known ug/l 2230 2000 Total LFB ug/l 24300 25000 Total LFB ug/l 2230 2000 Total LFB ug/l 2200 2000 Total LFB ug/l 2200 2000 Total Known ug/l 2230 2000 Total LFB ug/l 22600 25000 Total Known ug/l 2230 2000 Total LFB ug/l 24600 25000 Total known ug/l 2160 2000 Total LFB ug/l 2160 2000 Total LFB ug/l 2160 2000 Total LFB ug/l 2160 2000 Total LFB ug/l 2160 2000 Total LFB ug/l 2160 2000 Total LFB ug/l 21500 25000 Total Known ug/l 1910 2000 Total Known ug/l 1910 2000 Total Known ug/l 1920 2000 Total Known ug/l 1920 2000 Total Known ug/l 1920 2000	Total LFB

pproved by James Market



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

. Account: 197

Sampler: Dave Nitchels Date Sampled: 4/18/01 Date Received: 4/19/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

itch number 101510

- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Hg Total Known ug/Kg 4.599 5.000 92 4/25/0 Hg Total LFB ug/Kg 190.2 200.0 95 4/25/0 Hg Total Known ug/Kg 4.599 5.000 92 4/25/0 Hg Total Known ug/Kg 1694. 1470. 115 4/27/0 Hg Total Known ug/Kg 5.136 5.000 103 4/27/0 Hg Total Known ug/Kg 4.946 5.000 99 4/27/0 Se Total Known ug/I 58.2 62.5 93 4/27/0 Se Total Known ug/I 50.6 50.0 101 4/27/0 Se Total LFB ug/I 22700 25000 91 4/27/0 Se Total Known ug/I 48.0 50.0 96 4/27/0 Se Total Known ug/I 48.0 50.0 96 4/27/0 Se Total Known ug/I 48.2 50.0 96 4/27/0 Se Total Known ug/I 66.2 62.5 106 4/27/0 Se Total Known ug/I 50.2 50.0 100 4/27/0 Se Total Known ug/I 50.2 50.0 100 4/27/0 Se Total Known ug/I 50.2 50.0 100 4/27/0 Se Total Known ug/I 50.2 50.0 100 4/27/0 Se Total Known ug/I 50.2 50.0 100 5/27/0	Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
An inital Leb uu/i 2/20 2000	Hg Total Hg Total Hg Total Hg Total Hg Total Hg Total Se Total Se Total Se Total Se Total Se Total Se Total Se Total Se Total Ag Total	Known LFB Known Known Known Known Known LFB Known Known Known Known Known Known	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/	4.599 190.2 4.599 1694. 5.136 4.946 58.2 50.6 22700 48.0 48.2 66.2 50.2 51.3 2720	5.000 200.0 5.000 1470. 5.000 5.000 62.5 50.0 25000 62.5 50.0 62.5 50.0 62.5	92 95 92 115 103 99 93 101 91 96 96 106 100 103 109	4/25/01 4/25/01 4/25/01 4/25/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 5/7/01

pproved by Auch Low



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: Dave Nitchels
Date Sampled: 4/18/01
Date Received: 4/19/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

itch number 101510

-- Spike Results --

Acceptable Limits = 75 - 125 %

{	Ana	ılyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery
	Pb Pb Pb Ig Hg Se Se Ag	Total Total Total Total Total Total Total Total	01-E003388 01-E003401 01-E003401 01-E003545 01-E003396 01-E003396 01-E003396 01-E003396 01-E003396 01-E003396	4/27/01 4/27/01 4/27/01 4/27/01 4/27/01 4/25/01 4/25/01 4/27/01 4/27/01 5/ 7/01	ug/l ug/l ug/l ug/l ug/Kg ug/Kg ug/l ug/l ug/l	4350 4950 4950 11400 11400 < 15 < 15 < 2500 < 2500 858. 858.	25000 25000 25000 25000 25000 200.0 200.0 25000 25000 25000	24500 22600 22300 29800 30000 205.6 196.8 23000 25000 3520 3480	81 71 X7 69 X7 74 X7 74 X7 103 98 92 100 106 105
ì								· ·	

** Original amount is > 4 times spike amount.

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Page:

2



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: Dave Nitchels Date Sampled: 4/18/01 Date Received: 4/19/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101510

- Spike Results

Acceptable Limits = 75 - 125 %

			Acceptabl	<u>e Limit</u>	s = /3 - 1	.20 /		
Ana	alyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery
		~					/ 	
*As		01-E003396	4/26/01	ug/L	111000	25000	141000	120
- *As		01-E003396	4/26/01	ug/L	111000	25000	138000	108
		01-E003357	4/26/01	ug/L	3430	25000	26900	94
Às		01-E003357	4/26/01	ug/L	3430	25000	27500	96
(As		01-E003361	4/26/01	ug/L	2660	25000	27000	97
As		01-E003361	4/26/01	ug/L	2660	25000	27100	98
l As		01-E003368	4/27/01	ug/L	5500.	25000	27250	87
As		01-E003368	4/27/01	ug/L	5500.	25000	26750	85
\ As	Total	01-E003380	4/27/01	ug/L	< 2500	25000	19550	78
, As	Total	01-E003380	4/27/01	ug/L	< ¸2500	25000	19180	77
As	Total	01-E003388	4/27/01	ug/L	< 2500	25000	25500	102
As	Total	01-E003388	4/27/01	ug/L	< 2500	25000	30500	122
As	Total	01-E003401	4/27/01	ug/L	14120	25000	33750	79
As	Total	01-E003401	4/27/01	ug/L	14120	25000	33250	77
As	Total	01-E003545	4/27/01	ug/L	67750	25000	89250	86
Às	Total	01-E003545	4/27/01	ug/L	67750	25000	90000	89
r**Ba	Total	01-E003396	4/25/01	ug/l	73000	10000	86200	132 X7a
*Ba		01-E003396	4/25/01	ug/l	73000	10000	95800	228 X7a
1		01-E003396	4/25/01	ug/l	< 300	10000	8050	80
		01-E003396	4/25/01	ug/l	< 300	10000	8200	82
1 '	the same of the sa	01-E003396	4/25/01	ug/l	8780	10000	17200	84
		01-E003396	4/25/01	ug/l	8780	10000	17400	86
		01-E003396	4/25/01	ug/1	12400	25000	34500	88
	化环醇 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	01-E003396⊴	4/25/01	_ug/l =	12400	25000	33000	ំ 82 🧀 🥍 👊
leader of the best	and the second of the second of the left of	01-E003357	4/25/01	ug/1	6200	25000	25000 🕸	75 小沙海
		01-E003357				25000		
		01-E003361	4/25/01	ug/l	6300	25000	27800	86
1		01-E003361	4/25/01	ug/1	6300	25000	26200	80
		01-E003368	4/27/01	ug/l	5350	25000	26500	85
Pb		01-E003368	4/27/01	ug/l	5350	25000	25800	82
J		01-E003380	4/27/01	ug/l ug/l	4400	25000	22500	72 X7
РЬ	TOTAT			_	4400	25000	21300	68 X7
√ Pb		01-E003380	4/27/01	ug/l	4350 4350	25000	23000	75
Pb	rocar	01-E003388	(4/27/01)	ug/l	#27A	23000	20000	, , ,

pproved by

Page:

1



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: Dave Nitchels Date Sampled: 4/18/01

Date Received: 4/19/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101510

<u>Duplicate Analysis</u>

Acceptable Limit = 20 % RPD

Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD
TS/	01-E003352	<i></i>	89.1	89,2	0.11
TS	01-E003362	%	93.8	93.9	0.11
TS	01-E003371	%	89.7	90.0	0.33
TS	01-E003381	%	88.1	87.8	-0.34
rs	01-E003391	%	91.9	92.6	0.76
TS	01-E003401	%	73.7	88.4	18.14
TS	01-E003547	%	87.7	87.7	0.00
TS	01-E003560	%	86.0	86.2	0.23
TS	01-E003571	. %	88.9	89.0	0.11
TS	01-E003591	%	10.2	10.2	0.00



3019 G.S. Center Rd. Wenatchee, WA 98801 (509) 662-1888

(509) 662-1888

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1-800-545-4206

Account: 197

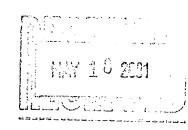
Sampler: David Nitchels Date Sampled: 4/19/01 Date Received: 4/23/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Batch number 101554



-- Spike Results

Acceptable Limits = 75 - 125 %

Analyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery
Se Total Ag Total	01-E003396 01-E003396 01-E003396 01-E003396	4/27/01 4/27/01 5/ 7/01 5/ 7/01	ug/l ug/l ug/l ug/l	< 2500 < 2500 858. 858.	25000 25000 2500 2500	23000 25000 3520 3480	92 100 106 105

** Original amount is > 4 times spike amount.

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Page:

3



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: David Nitchels Date Sampled: 4/19/01 Date Received: 4/23/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101554

Blank Analysis

Analyte	Units	Blank Results	Date Analyzed		
As Total	ug/L	< 150	4/26/01		
As Total	ug/L	< 2500	4/27/01		
As Total	ug/L	< 2500	5/ 3/01		
Ba Total	ug/l	< 100	4/25/01		Ĺ
Cd Total	ug/l	< 300	4/25/01		
Cr Total	ug/l	< 225	4/25/01		
Pb Total	ug/l	< 2100	4/25/01	:	
b Total	ug/l	< 2100	4/27/01		
Pb Total	ug/l	< 2100	5/ 3/01		
Hg Total	ug/Kg	< 0.3	4/25/01		
Hg Total	ug/Kg	· ` < 15	4/25/01		•
Se Total	ug/l	< 250	4/27/01		
Ag Total	ug/l	< 125	5/ ₅ 7/01		
			7		



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: David Nitchels Date Sampled: 4/19/01 Date Received: 4/23/01 Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101554

Duplicate Analysis -

Acceptable Limit = 20 % RPD

Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD
TS	01-E003547	%	87.7	87.7	0.00
TS	01-E003560	%	86.0	86.2	0.23
TS	01-E003571	%	88.9	89.0	0.11
ŗs	01-E003591	%	10.2	10.2	0.00

pproved by Aunt Man



(509) 662-1888

Fax: (509) 662-8183 1-800-545-4206 Account: 197

Sampler: David Nitchels Date Sampled: 4/19/01 Date Received: 4/23/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101554

Check Standard Analysis

Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
As Total	known	ug/L	2300.	2000.	115	4/27/01
As Total	LFB	ug/L	24200	25000	97	4/27/01
As Total	known	ug/L	2280.	2000.	114	4/27/01
As Total	known	ug/L	1970.	2000.	98	4/27/01
\s Total	LFB	ug/L	21500	25000	86 ⁻	4/27/01
"As Total	known	ug/L	1970.	2000.	98	4/27/01
As Total	LFB	ug/L	22600	25000	90	4/27/01
As Total	known	ug/L	1990.	2000.	100	4/27/01
As Total	LFB	ug/L	21580	25000	86	4/27/01
As Total	Known	ug/L	2030.	2000.	102	4/27/01
As Total	known	ug/L	2050.	2000.	102	4/27/01
As Total	LFB	ug/L	22100	25000	88	4/27/01
As Total	Known	ug/L	2050.	2000.	102	4/27/01
As Total	known	ug/L	2230.	2000.	112	5/ 3/01
As Total	· lfb	ug/L	23850	25000	95	5/ 3/01
As Total	known	ug/L	2240.	2000.	112	5/ 3/01
As Total	LFB	ug/L	24150	25000	9 7	5/ 3/01
As Total	known	ug/L	2260.	2000.	113	5/ 3/01
Ba Total	LFB	ug/l	9250	10000	92	4/25/01
Ba Total	known	ug/l	2060	2000	103	4/25/01
Ba Total	LFB	ug/l	9550	10000	96	4/25/01
Ba Total	known	ug/l	2100	2000	105	4/25/01
Cd Total	LFB	ug/l	9020	10000	90	4/25/01
Cd Total	known	ug/l	2070	2000	104	2 4/25/01
Cd Total	LFB	ug/l	9450	10000	594	4/25/01
Cd Total	known	ug/l	2090	2000	104	4/25/01
Cr Total	LFB	ug/l	.8650	10000	- 86	4/25/01
Cr Total	known	ug/l	1890	2000	94	4/25/01
Cr Total	LFB	ug/l	8720	10000	87	4/25/01
-Cr Total	known	ug/l	1880	2000	94	4/25/01

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Just Just

Page:

2



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: David Nitchels Date Sampled: 4/19/01 Date Received: 4/23/01

Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

itch number 101554

- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

					m 1	D t-	D = 4 =
Anal	.yte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
РЬТ	otal	Known	ug/l	10.2	10.0	102	4/27/01
1		Known	ug/l	10.3	10.0	103	4/27/01
	otal	LFB	ug/l	5.0	5.0	100	4/27/01
	otal	Known	ug/l	10.3	10.0	103	4/27/01
, p 1	Cotal	LFB	ug/l	4.9	5.0	98	4/27/01
Pb T		Known	ug/l	10.4	10.0	104	4/27/01
ſ	otal	LFB	ug/l	5.0	5.0	100	4/27/01
1	otal	Known	ug/l	10.5	10.0	105	4/27/01
	Cotal	Known	ug/l	10.4	10.0	104	4/27/01

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(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Account: 197

Sampler: David Nitchels
Date Sampled: 4/19/01
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Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

itch number 101554

Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Analy	te Known	ID Units	Result	Target Value	Percent Recovery	Date Analyzed
Pb To	tal known	ug/l	2060	2000	103	4/25/01
Pb To	tal LFB	ug/l	24300	25000	97	4/25/01
Pb To		_	2230	2000	112	4/25/01
.⁵b To	tal LFB	ug/l	24800	25000	99	4/25/01
ј ∂р То	tal known	_	2200	2000	110	4/25/01
Pb To	tal LFB	ug/l	26000	25000	104	4/25/01
Pb To	tal Known	ug/l	2230	2000	112	4/25/01
Pb To	tal known	ug/l	2180	2000	109	4/27/01
Pb To	tal LFB	ug/l	24600	25000	98	4/27/01
Pb To	tal known	ug/l	2160	2000	108	4/27/01
Pb To	tal known	ug/l	1860	2000	93	4/27/01
Pb To	tal LFB	ug/l	21400	*25000	86	4/27/01
Pb To	tal known	ug/l	1850	2000	92	4/27/01
Pb To	tal LFB	ug/l	23300	25000	93	4/27/01
Pb To	tal - known	ug/l	1870	2000	94	4/27/01
Pb To	tal LFB	ug/l	21500	25000	86	4/27/01
Pb To	tal Known	ug/l	1910	2000	96	4/27/01
Pb To	tal known	ug/l	1920	2000	96	4/27/01
Pb To	tal LFB	ug/l	21900	25000	88	4/27/01
Pb To	tal Known	ug/l	1920	2000	96	4/27/01
Pb To		ug/l	. 2270	2000	114	5/3/01
Pb To	tal lfb	ug/l	23800	25000	95	5/3/01
Pb To	tal known	real sug/l∜	2170	2000	108	5/, 3/01
Pb To	tal LFB	ug/l	41: 23300 ₁₋₃	25000 🖫	93	5/.3/01
Pb To	2	AND AND THE PARTY OF THE PARTY	2190 🧠	2000	//110	5/-,3/01
	tal Known			1470.	32. 199 (2)	4/25/01
Hg To		ug/Kg		5.000	92	4/25/01
	tal p. LFB			200.0	95	4/25/01
Yg To	tal Known	ug/Kg	4.599	5.000	92	4/25/01

pproved by

Page:

4



(509) 662-1888

Fax: (509) 662-8183 1-800-545-4206 Account: 197 .

Sampler: David Nitchels Date Sampled: 4/19/01 Date Received: 4/23/01 Report Date: 5/15/01

Quality Assurance Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

atch number 101554

Check Standard Analysis

Acceptable Limits = 85 - 115 %

		_		•			
Ana	alyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Se	Total	Known	ug/l	58.2	62.5	93	4/27/01
Se	Total	Known	ug/l	50.6	50.0	101	4/27/01
Se	Total	LFB	ug/1	22700	25000	91	4/27/01
Se	Total	Known	ug/l	48.0	50.0	96	4/27/01
3e	Total	Known	ug/l	48.2	50.0	96	4/27/01
· Se	Total	Known	ug/l	66.2	62.5	106	4/27/01
Se	Total	Known	ug/l	50.2	50.0	100	4/27/01
Se	Total	Known	ug/l	51.3	50.0	103	4/27/01
Ag	Total	LFB	ug/l	2720	2500	109	5/ 7/01
Ag	Total	Known	ug/l	547.	500.	109	5/ 7/01

Approved by MILA NAME



(509) 662-1888

1-800-545-4206

Fax: (509) 662-8183

Batch: 101554

Client: Forsgren Associates Inc

Account: 197

Sampler: David Nitchels

PO Number: 800.106.008

DAY 1 1 2001

Services Report Analytical

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003541 Sample Identification: E11-S01

Date Received: 4/23/01 Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

	그는 이렇게 제작하는데 유얼을 하지만 하다 하다.	# 1.7			
ĺ	st Requested	Results	Units MDL Method Date Analyzed	Flags	
1	Arsenic Total Solid	104.1	mg/Kg 2.691 SW846 6010 4/27/01		
1	ead Total Solids.	58.3	mg/Kg 2.3 SW846 6010 4/27/01	**	
	otal Percent Solids	92.9	% 0.01 % SM 2540-B 4/26/01		
	Total Metals Digest Solid	Metals Di	igest SW846 3050 -4/25/01	nga nya.	

Approved By: Land Wall

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWYA. Cascade Analytical makes not varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. 8 liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

1-800-545-4206

Batch: 101554

Fax: (509) 662-8183

Client: Forsgren Associates Inc

Account: 197

Sampler: David Nitchels

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003542 Sample Identification: E11-S03 Date Received: 4/23/01 Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

st Requested	Results	Units MDL Method Date Analyzed Flags
	66.83	mg/Kg 2.796 SW846 6010 4/27/01
Arsenic Total Solid ead Total Solids	9.2	mg/Kg 2.3 SW846 6010 4/27/01
'otal Percent Solids	89.4	% 0.01 % SM 2540-B 4/26/01 Gest SW846 3050 4/25/01
Total Metals Digest Solid	Metals Di	gest 5000 5000 47,20701

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA. Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003543 Sample Identification: E11-S05 Date Received: 4/23/01 Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

	보기 보기 하는 이 물리 없는 보다 한 글라면 끝에서 첫째 훌쩍	建化 建毛鳞 计二		원이 많이 된 이 모양하다 밥만 꿰맸으로요. ㅋㅋㅋ	8 <u>. – 1</u> 7828 <u>– 8 </u>
-7	st Requested	Results	Units MDL	Method Date Analyze	d Flags
-	Arsenic Total Solid	65.61	mg/Kg 2.769	SW846 6010 4/27/01	
	'ead Total Solids	115.	mg/Kg 2.3	SW846 6010 4/27/01	
	otal Percent Solids	90.3		SM 2540-B 4/26/01	
	lotal Metals Digest Solid	Metals Di	gest	SW846 3050 4/25/01	

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varianty of wany kind the client assumes all risk and liability to the use of these results. Cascade Analytical, Inc. spliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Services Report Analytical

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003544 Sample Identification: E12-S01

4/23/01 Date Received: 4/19/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

	그러워가 없는 사람이 되었다. 그런 바람이 모든						
T	st Requested	Results	Units MDL	Method	Date An	alyzed Flags	<u>_ 1</u> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	TCLP Extract	4/24/01					
ĺ	Arsenic	0.62	mg/L 0.20	3113B/3120	OB 5/ 1/0	${f 1}$	
	Lead	< 0.1	mg/L 0.10		5/ 1/0		

Approved By: July Was

Cascade Analytical uses procedures established by EPA, AOAC, APHA; ASTM, and AVVA. Cascade Analytical makes no varianty of analytical makes no varianty of the any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. seliability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003545

Date Received: 4/23/01

Sample Identification: E12-S02

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

"			II.i.i.e. MDI	Method	Date Analyzed Flags	_
٦	st Requested		Units - NDL			
1	Arsenic Total Solid	74.86	mg/Kg 2.762	SW846 6	5010 4/27/01	
1	'ead Total Solids	12.6	mg/Kg 2.3	SW846 6	그는 것 같아. 네트워널락 하는 사람들이 가는 그를 가는 것이 되는 것 같아. 그는 그를 가장 없었다. 그는	
	otal Percent Solids	90.5	% 0.01 %		0-B 4/26/01	
. 1	rotal Metals Digest	Solid Metals Di	lgest	SW846 3	3050 4/25/01	

Approved By: Augustus

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of the cascade Analytical makes no

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels

PO Number: 800.106.008

Services Report Analytical

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003546

4/23/01 Date Received:

Sample Identification: E12-503

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

1.5	그 없다 살았다 그 그렇게 나를 내려왔다.		그는 그 말까요? 그러 하시다 하는 그는 그는 그			
T	st Requested	Results	Units MDL Method	Date Analyzed	Flags	
7	TCLP Extract	4/24/01				
1						
	Arsenic	0.58 < 0.1	mg/L 0.20 3113B/ mg/L 0.10 SM3120	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
À,	Lead	7.4	1197L 9.19			

Approved By+ AND N

Cascade Analytical uses procedures established by ERA, AOAC, APHA, ASTM, and ANVA. Cascade Analytical makes no varranty of the language of these results. Cascade Analytical makes no varranty of the language of these results. Cascade Analytical, Inc. as liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: David Nitchels

1-800-545-4206

PO Number: 800.106.008

Analytical Services Repor

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003547

Date Received: 4/23/01

Sample Identification: E12-S04

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

-	P	에 그 아무롱 하나 하면 모르게 다	, in the way	N 1		•
	rat Requested -	Results	Units MDL	Method Date Analyzed	 Flags	÷
-	arsenic Total So	olid 69.56	mg/Kg 2.851	SW846 6010 4/27/01	마이 그리 하시고 급급했다. 보급	
	Lead Total Solid	is 5.4	mg/Kg 2.4	SW846 6010 4/27/01		
	otal Percent So	olids 87.7	% 0.01 %	SM 2540-B 4/26/01		
	otal Metals Dig	gest Solid Metals D	igest	SW846 3050 4/25/01		1

Approved By: Sauce A June 1

Cascade Analytical uses procedures established by EPA, AOAC, APBA, ASTM, and AVVA. Cascade Analytical makes no varianty of any kind the client assumes all risk and liability from the use of these results. Lascade Analytcial, Inc. siliability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade ALL CASH TO SERVE THE SERVE TO MENTER Analytical, Inc. for analysis.



(509) 662-1888

1-800-545-4206

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183 Account: 197

Sampler: David Nitchels

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003548 Sample Identification: E12-S05 Date Received: 4/23/01 Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

st Requested Date Analyzed Results TCLP Extract 4/24/01 Arsenic 0.25 mg/L 0.20 3113B/3120B 5/ 1/01 Lead mg/L 0.10 5/ 1/01 < 0.05 SM3120

Approved By: Had Man

Cascade Analytical uses procedures established by EPA\ ADAC, APHA, ASTM, and ANVA. Cascade Analytical wakes no varranty of a any kind the client assumes all risk and liability from the use of these results. Cascade Analytcial, Inc. seliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: David Nitchels

1-800-545-4206

PO Number: 800.106.008

Analytical Services Report

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003549

Date Received: 4/23/01

Sample Identification: E12-S06

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

	_^^ 보이는 되는 사람들이 얼마를 하는 것이 되는 것이다.		11 11 VD1	M I land			
Í	T st Requested	Results	Units MDL	Method	Date Analy	zed Flags	
	Arsenic Total Solid	18.67	mg/Kg 2.80	9 SW846 60	010 4/27/01		
2	Lead Total Solids	4.1	mg/Kg 2.4	SW846 60	010 4/27/01		
	otal Percent Solids	89.0	% 0.01 %	and the contract of the contra	그림이 이 없다. [22] 시작 그림, 글로 얼마나 다.		
1	.otal Metals Digest Solid	Metals Dig	jest.	SW846 30	050 4/25/01		1

Approved By: X

Cascade Analytical uses procedures established by EFA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of seasons the contract of the contrac

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003550 Sample Identification: E13-S01

Date Received: 4/23/01

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

그 이 시에는 이 교사를 하다면 하고 그 사람들이 되었다.				
1 st Requested R	esults Units M	MDL Method	i Date Analyze	d Flags
ni benie 10 car borre	 85.04 mg/Kg 50.4 mg/Kg	2.691 SW846 2.3 SW846	6010 4/27/01 6010 4/27/01	
otal Percent Solids		0.01 % SM 254 SW846	10-B 4/26/01	

Approved By: January Jack

Cascade Analytical uses procedures established by EPA, ACAC, APHA, ASTM, and ANVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Fax: (509) 662-8183

Client: Forsgren Associates Inc Account: 197

1-800-545-4206

Sampler: David Nitchels

PO Number: 800.106.008

Services Report Analytical

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003551

Date Received: 4/23/01

Sample Identification: E13-S03

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

						II I WAT			一种原理				
7	st	Request	ed		Results	Units MDL		Method		Date Ana	Lyzeu	rlags	
1	Arge	onic Tot	al Solid		51.27	mg/Kg 2	. 643	5W846 6	6010	4/27/01			
1		Total			115.	mg/Kg 2	2	SW846 6		4/27/01			
1		and the first of the second	nt Solids	하는 그 전화 관계 생활을 하게 하고 있다.	94.6	% 0.0		SM 2540		4/26/01			
	iota	ıl Metal	s Digest	Solid	1etals Di	gest		SW846	3050	4/25/01			

Approved By: June 1

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any_kind_the_client_assumes:all=risk=and_liability_from_the_use_of=these=results;==Cascade=Analytcial;=Inc;==s=tiability=to=the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: David Nitchels

1-800-545-4206

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003552

Date Received: 4/23/01

Sample Identification: E13-S05

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

st Requested	Results Uni	ts MDL Me	ethod Date Analyze	d Flags
Arsenic Total Solid	75.75 mg	/Kg 2.677 S	W846 6010 4/27/01	
lead Total Solids	343. mg	·	W846 6010 4/27/01	
otal Percent Solids	93.4 %		M 2540-B 4/26/01	
otal Metals Digest Solid	Metals Digest	SI	W846 3050 4/25/01	

Approved By: Julia Manual

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varianty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, inc. seliability to the

client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical. Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: David Nitchels

1-800-545-4206

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003553

Date Received: 4/23/01

Sample Identification: E14-S01

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

그의 사람들에 되는 것이 생활하다.		MNI	W-11-4		
T-st Requested	Results	Units MDL	Method	Date Analyzed	-riags
Arsenic Total Solid	92.00	mg/Kg 2.796	SW846 6010	4/27/01	
Lead Total Solids	204.	mg/Kg 2.3	SW846 6010	4/27/01	
otal Percent Solids	89,4	% 0.01 %	SM 2540-B	4/26/01	
.otal Metals Digest	Solid Metals D	igest	SW846 3050	4/25/01	
Other Analysis	Analyzed	by SAS		4730/01	

Approved By: War Jan J

Cascade Analytical uses procedures established by EPA AOAC, APHA, ASTM, and AWMA. Cascade Analytical makes no verranty of second characteristics and liability from the use of these results a Cascade Analytical vinc. seliability to the



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: David Nitchels 1-800-545-4206 PO Number: 800.106.008

Analytical Services Report

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003554 Sample Identification: E14-S03 Date Received: 4/23/01 Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

1	st Requested	Results	Units	MDL	Method	Date Analyzed	Flags	5. 7
1	Arsenic Total Solid	26.18	mg/Kg	2.884	SW846 6010	4/27/01		
	lead Total Solids	5.7	mg/Kg	2.4	SW846 6010	4/27/01		
٠	otal Percent Solids	- こういかしょうしょう はまな かみょうかい しょうけんきゅう コー・コー	%	0.01 %	SM 2540-B	4/26/01		
	rotal Metals Digest	Solid Metals Di	gest		SW846 3050	4/25/01		

Approved By: August Washe

Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and ANVA. Cascade Analytical makes no marranty of any kindsthe client assumes all risk and liability from the use of these results. Scascade Analytical makes no marranty of the



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003555

Date Received: 4/23/01

Sample Identification: E14-S05

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

1	est Requested	Results	Units MDI Meth	od Date Ana	lyzed Flags	<u> </u>
_				103 1146846		
	rsenic Total Solid	< 2.89	mg/Kg 2.89 SW84	6 6010 4/27/01		
	Lead Total Solids	5.3	mg/Kg 2.4 SW84	6 6010 4/27/01	and the second second	
	otal Percent Solid	- 1 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2	그는 일은 내가 생활하다는 내가 참 가지 그 나는 하는 사내가 된다.	540-B 4/26/01		
	otal Metals Digest	Solid Metals	Digest SW84	6 3050 4/25/01		

Approved By: January Jack

Cascade Analytical uses procedures established by EPA. MOAC, APHA, ASTM, and AVWA. Cascade Analytical makes no varranty of any kind the client assumes allyrisk and liability from the use of these results. Cascade Analytical Inc. saliability to the



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Account: 197

Fax: (509) 662-8183

Sampler: David Nitchels

1-800-545-4206

PO Number: 800.106.008

Analytical Services Report

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003556 Sample Identification: E16-S01

Sample Comment: Eastmont 800.106.008

Date Received: 4/23/01 Date Sampled:

4/19/01

Requested 4/30/01 Analyzed by SAS uther Analysis

Approved By Lyung Warlol

Cascade Analytical uses procedures established by RPA, AOAC, APHA, ASTM, and AVWA. Cascade Analytical makes no varranty of a cany kind the client assumes all risk and liability from the use of these results. Cascade Analytical Finc. (S. Viability to the



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: David Nitchels

1-800-545-4206

PO Number: 800.106.008

Analytical Services

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003557

4/23/01 Date Received: Date Sampled:

Sample Identification: E16-S03

4/19/01

Sample Comment: Eastmont 800.106.008

Test Requested 4/30/01 ther Analysis Analyzed by SAS

Cascade Analytical uses procedures established by RPA, AOAC, APHA, ASTM, and AWWA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. sliability to the crient as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc Account: 197

Fax: (509) 662-8183

Sampler: David Nitchels

1-800-545-4206

PO Number: 800.106.008

Analytical Scrvices Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003558

Date Received: 4/23/01

Sample Identification: E16-S05

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

	하는 이렇게 얼룩하지만 그런 남편하다.	III I I I MINI	70 1 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Test Requested -	Results	-Units MDL Method	Date Analyzed Flags
arsenic Total Soli	d 77.70	mg/Kg 2.726 SW846 601	0 5/ 3/01-
Lead Total Solids	153.	mg/Kg 2.3 SW846 601	0 5/3/01
otal Percent Soli	ds 91.7	% 0.01 % SM 2540-B	4/26/01
otal Metals Diges	t Solid Metals Di	Lgest SW846 305	0 4/26/01

Approved By: Augustus

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWA: Cascade Analytical makes no varranty of the client assumes all risk and cliability from the use of these results. Cascade Analytical Tick and client to Cascade client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade



(509) 662-1888

1-800-545-4206

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

Sampler: David Nitchels

PO Number: 800.106.008

Analytical Services

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003559

Date Received: 4/23/01

Sample Identification: E17-S01

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

- '		그 이번(화화화학 전 - 교육)				, p	
4	ret Requested	Results	Units MDE	<u> Method</u>	Date Anal	yzed flags	
	Arsenic Total Solid	75.47	mg/Kg 2.744	. S₩846 €	5010 5/ 3/01		
	Lead Total Solids	141.	mg/Kg 2.3	SW846			
	otal Percent Solid	s 91.1	% 0.01 %	SM 2540	Tile Al-Filia (Helia) 하는 100 Hill Selection (Helia) Helia (Helia) (Helia) Helia (Helia) (
	otal Metals Digest	. Solid - Metals Di	lgest	SW846 (3050 4/26/01		

Approved By: Auton Market

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results as Cascade Analytcial, binc. seliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183.

Account: 197

1-800-545-4206

Sampler: David Nitchels

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003560

Date Received: 4/23/01

Sample Identification: E17-S03

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

医毛膜 化二氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基				[1] [4] = 13, [4] [4] [4] [4] [4] [4] [4] [4] [4] [4]	
 st Requested	Result	s Units MDL	. Metho	d Date Analy	yzed Flags
Arsenic Total Solid	73.26	mg/Kg 2		6010 5/ 3/01	
Lead Total Solids	8.5	mg/Kg 2	1.1. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	6010 5/3/01	
'otal Percent Solids	86.0	% 0.0		40-B 4/26/01	
otal Metals Digest	Solid Metals	Digest	SW846	3050 4/26/01	

Approved By: Suut Way

Cascade Analytical uses procedures established by ERA AOAC, APHA, ASTM, and AWA: Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. sliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

011

Client: Forsgren Associates Inc

Fax: (509) 662-8183 Acc

Account: 197

Sampler: David Nitchels

1-800-545-4206

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003561

Date Received: 4/23/01

Sample Identification: E17-S05

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

					4D1						
-1	fast Requested		results -	Units 1	1DL	nethod		ate And	alyzed	riays	
-	Arsenic Total Solid		43.51	ma/Ka	2.703	SW846	6010	5/ 3/0	l ·		
	Lead Total Solids		17.4		2.3	S₩846		5/ 3/0	Ĺ	-	
	otal Percent Solic		92.5		0.01 %	SM 254	王 医三式试验检验	4/26/0	AU. 1.1		
	otal Metals Digest	. Solid l	ietals Di	.gest		S₩846	3020	4/26/0			

Approved By: / July / July

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AYYA. Cascade Analytical makes no varranty of a sanged and stress and allability from the sanged and stress and allability from the sanged and stress and allability from the sanged and stress and allability from the sanged and stress and allability from the sanged and stress and allability from the sanged and stress and allability from the sanged and stress and allability from the sanged and stress and s



(509) 662-1888

Batch: 101554

Fax: (509) 662-8183

Client: Forsgren Associates Inc

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Services Report Analytical

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003562

Date Received: 4/23/01

Sample Identification: E18-S01

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

		그는 경실을 하는 것이 되었다.			1
_	Inst Requested	Results	Units MDL Method	1 Date Analyzed Flags	
	Arsenic Total Solid	115.6	mg/Kg 2.828 SW846	6010 5/ 3/01	
	Lead Total Solids	744.	mg/Kg 2.4 SW846	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
	otal Percent Solids		% 0.01 % SM 254	그 그 전 경기 원들 경험하다 생활을 받는 사람들의 사람들의 발하를 몰랐다. 네트리스 그 그 그 그	
	otal Metals Digest	Solid Metals Di	gest 5%040	3030 4/20/01	

Approved By: Authorities

Cascade Analytical uses procedures established by ERA NADAC, APHA, ASTN, and AWVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytcial, inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003563 Sample Identification: E18-S03 Date Received: 4/23/01 Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

공연하다 일찍 하지, 그는 나를 걸었다. 어느를 하다 살았다.			· d.			
st Requested	Results Un	its MDL	Method	hare Wuar	yzed flags	
Arsenic Total Bolid	74.28 m	g/Kg 2.983	SW846 601	.0 5/ 3/01		
Lead Total Solids	6.2 mg	g/Kg 2.5	SW846 601			
'otal Percent Solids	83.8 %	0.01 %	SM 2540-E	영하는 그 대통령학교를 보는 사회사가 되었다.		
Total Metals Digest Solid	Metals Diges	t	SW846 305	60 4/26/01		

Approved By: July Wallet

Cascade Analytical uses procedures established by LPA, AOAC, APHA, ASTM. and AYVA. Cascade Analytical makes no varianty of analytical makes no varianty of analytical makes no varianty of the analytical makes all misk and liability from the uses of these results. Cascade Analytical inc. s liability to the



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

1-800-545-4206 Sampler: David Nitchels

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003564 Sample Identification: E18-S05 Date Received: 4/23/01 Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

				检 .
_	st Requested	Results	Units MDL Method Date Analyzed Flags	
•	Arsenic Total Solid	31.08	mg/Kg 2.775 SW846 6010 5/3/01	
	Lead Total Solids	11.0	mg/Kg 2.3 SW846 6010 5/3/01	
	otal Percent Solid		% 0.01 % SM 2540-B 4/26/01 Digest SW846 3050 4/26/01	
	otal Metals Digest	Solid Metals D)igest 5#046 3030 4/26/01	

Approved By: / WWW WWW.

Cascade Analytical uses procedures established by EPA AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varianty of any kind the client assumes all risk and hisbility from the use of these results. Cascade Analytical, Inc. s hisbility to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade.



(509) 662-1888

Batch: 101554

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

·Client: Forsgren Associates Inc

Analytical Services Report

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003565

Date Received: 4/23/01

Sample Identification: FA041901

4/19/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

Requested 4/30/01 Analyzed by SAS Uther Analysis

Approved By: Just Washel

Cascade Analytical uses procedures established by EPA AOAC; APHA, ASTN, and AWVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. 2 Cascade Analytcial, lnc. 8 liability to the



Fax: (509) 662-8183

(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Account: 197

1-800-545-4206

Sampler: David Nitchels

PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003566

Date Received: 4/23/01

Sample Identification: E22-S01

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

	프로리 실릴 수 있는 것이 없다. 그는 그 없는 사람이 없는 것이다.						
Í	est Requested	Results	Units MDL	Method	Date Analy	zeu riags	
	arsenic Total Solid	49.72	mg/Kg 2.76	2 SW846	6010 5/ 3/01		
	Lead Total Solids	38.5	mg/Kg ≥ 2.3		6010 5/ 3/01		
	otal Percent Solids	90.5	% 0.01 %		(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)		
	otal Metals Digest Solid	Metals Di	.gest	SW846	3050 4/26/01		

Approved By: Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AWVA. Cascade Analytical makes no varranty of an any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. 23 liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



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Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003567

Date Received: 4/23/01

Sample Identification: E22-S03

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

	Pogulta Unita MDI	Method	Date Analyzed Flags
Test Requested	Results Units MDL		
		DIA CHOAC COLO	5/ 3/01
Arsenic Total Solid	64.10 mg/Kg 2.		3.등. 그렇게 집합 그림 나는 그 없었다 11. 12. 15. 15. 15. 15. 15.
Lead Total Solids	16.9 mg/Kg 2.	4 SW846 6010	5/ 3/01
otal Percent Solids	85.8 % 0.01	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	4/26/01
otal Metals Digest Solid	Metals Digest	SW846 3050	4/26/01

Approved By: Syllay Warlest

Cascade Analytical uses procedures established by YPA, AOAC, APHA, ASTM, and AVVA. - Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. suliability to the



(509) 662-1888

Batch: 101554

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Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003568

Date Received: 4/23/01

Sample Identification: E22-S05

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

Tat Requested	Results	Units MDL	Method	Date Analyzed	d Flags
Arsenic Total Solid	36.12	mg/Kg 2.867	SW846 6	010 5/ 3/0 1	
Lead Total Solids	22.1	mg/Kg 2.4	SW846 6	010 5/ 3/01	
otal Percent Solids	87.2	% 0.01 %	SM 2540	コンド さもしとはい 支援 おめいかん シン ものしん コンコー	
otal Metals Digest	Solid Metals	Digest	SW846 3	050 4/26/01	

Approved By

Cascade Analytical uses procedures established by EPA, ADAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of sw any kind the client assumes all risk and liability from the use of these results a Cascade Analytical Pinc as liability to the



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101554

Client: Forsgren Associates Inc

Account: 197

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Repor

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003570

Sample Identification: E25-S01

Sample Comment: Eastmont 800.106.008

Date Received: 4/23/01 Date Sampled: 4/19/01

Test_Requested	Results	Units	MDL	Method	-Date Analyzed	Flags	
rsenic Solid	262.	mg/Kg	34.9	SW846 7060	4/26/01		
Barium Total Solid	98.8	mg/Kg	0.116	SW846 6010	4/25/01		
Cadmium Total Solid	< 0.35	mg/Kg	0. 35	SW846 6010	4/25/01		
hromium Total Solid	11.7	mg/Kg	0. 26	SW846 6010	4/25/01		
Lead Total Solids	1080	mg/Kg	2.4	SW846 6010	4/25/01		
Mrcury Total Solid	< 0.0174	mg/Kg	0.0174	SW846 7471	4/25/01		
, ~lenium Total Solid	< 2.91	mg/Kg	2.91	SW846-7740	4/27/01		
ver Total Solid	3.28	mg/Kg	0.15	SW846 6010	5/-7/01	en Manual de la companya de la companya de la companya de la companya de la companya de la companya de la companya	
Total Percent Solids	86.0	7	0.01 %	SM 2540-B	4/26/01		
otal Metals Digest Solid	Metals Di	lgest		SW846 3050	4/23/01		
Ither Analysis	Analyzed				4/27/01		
			化学经验 化苯磺基				100 mg/s

Approved By:

Cascade Analytical uses procedures established by ERA, AOAC; APRA, ASTM, and AVVA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical Vic. 18: Liability Co.the



(509) 662-1888 Fax: (509) 662-8183 Batch: 101554

Client: Forsgren Associates Inc

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003571

Date Received: 4
Date Sampled: 4

4/23/01

Sample Identification: E25-S03

nace nambie

4/19/01

Sample Comment: Eastmont 800.106.008

그 발생 내려가 그 되는 참으로 하는 사람들이 그			A section of the sect			
Test Requested	Results	Units MDL	Method	Date Analyzed	Flags	
	- 4-7		3			
rsenic Solid	11.9	mg/Kg 1.69	SW846 7060	4/26/01		
Barium Total Solid	106.	mg/Kg 0.112	SW846 6010	4/25/01		
admium Total Solid	< 0.34	mg/Kg 0.34	SW846 6010	4/25/01		
hromium Total Solid	16.2	mg/Kg 0.25	SW846 6010	4/25/01		
Lead Total Solids	9.2	mg/Kg 2.4	SW846 6010	4/25/01		
rcury Total Solid	< 0.0169	mg/Kg 0.0169	SW846 7471	4/25/01		100
elenium Total Solid	< 2.81	mg/Kg 2.81	SW846 7740	4/27/01		
	1.08	mg/Kg 0.14	SW846 6010	5/ 7/01		
ver Total Solid	"智慧国际基础"。 电电影电影动动机 计多点	mg/Rg 0.14 % 0.01 %	SM 2540-B	4/26/01		
Total Percent Solids	88.9	발생하다 내는 희망하셨다. 그 등 그 그 그는 사람들이	SW846 3050	4/23/01		
otal Metals Digest Solid	Metals Di	三 こうはん ぜんとう さいじゅうかん こうばいんしゃ	24040 JUJU	4/27/01		
other Analysis	Analyzed	DY-5A5		4/2//01		

Approved By: Suuth MAH

Cascade Analytical uses procedures established by EFA, AOAC, APHA, ASTM, and ANNA, Cascade Analytical makes no warranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytcial, Inc. siliability to the



(509) 662-1888

Batch: 101554

Fax: (509) 662-8183

Client: Forsgren Associates Inc Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 3/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003572 Sample Identification: E25-S07 Date Received: 4/23/01 Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

		[사용기 계획 전 기회 기원 경험, 사용 사고 H					
ſ	st Requested	Results Units	MDL	Method	Date Analyzed	Flags	
	Arsenic Total Solid	46.99 mg/Kg	2.732	SW846 6010	5/ 3/01		
ı	Lead Total Solids	117. mg/Kg	2.3	SW846 6010	5/ 3/01	17.2	
ļ	otal Percent Solids	91.5	0.01 %	SM 2540-B	4/26/01	*	
1	iotal Metals Digest S	olid Metals Digest		SW846 3050	4/26/01		

Approved By:

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of Cascade Analytical makes no varranty of Cascade Analytical makes no varranty of Cascade Analytical makes no varranty of Cascade Analytical, Inc. saliability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554 Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels

PO Number: 800.106.008

Analytical Services Repor

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003573

Date Received: 4/23/01

Sample Identification: E26-501

4/19/01 Date Sampled:

Sample Comment: Eastmont 800.106.008

				DL Metho		lyzed Flags
i	Test Requested -	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ults units n	DL He cho	u Date Alla	Tyzed Flags
	Arsenic Total Sc	olid 2	.766 mg/Kg		6010 5/ 3/01	
	Lead Total Solid	ls 5	.9 mg/Kg	P. S.	6010 5/ 3/01	시계 역 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계
1	Total Percent Sc		뭐 하나 그는 그들은 이용하였다.	.01 % SM 25	to will of the first factorial and the con-	
Į	Total Metals Dig	* たっということは、これもないのでは、そのでは、これはないできます。	als Digest	SW846	3050 4/26/01	
	Other Analysis	Ana	lyzed by SAS		4/30/01	

Approved By: Julian hard

Cascade Analytical (uses procedures established by EPA, AOAC, APHA, ASTM, and AWWA.32 Cascade Analytical makes no varranty of tanking the cascade Analytical makes no varranty of the cascade Analytic



(509) 662-1888

Batch: 101554

....

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003574

Date Received: 4/23/01

Sample Identification: E26-S03

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

					·	
_	st Requested	Results Units	MUL	Method Date Analyzed	Flags	
	Arsenic Total Solid	4.722 mg/k	g 3.472	SW846 6010 5/3/01		
	Lead Total Solids	13.2 mg/H	g 2.9	SW846 6010 5/3/01		
	otal Percent Solids	72.0 %	0.01 %	SM 2540-B 4/26/01		
	.otal Metals Digest Solid	Metals Digest		SW846 3050 4/26/01		
	Other Analysis	Analyzed by SAS	5	4/30/01		: "
	一点,我想在我的,我们是我们的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	化乳油 化铁硬铁系统 医抗病 医抗原素 医二氯苯二甲二二	* *	- 1、 ・ 1、 ・ 1、 ・ 1、 ・ 1、 ・ 1、 ・ 1、 ・ 1、		276

Approved By: Swell I want

Cascade Analytical uses procedures established by EPA, ACAC, APHA, ASTM, and AWAL Cascade Analytical makes no warranty of anywhind the client assumes all risk and liability from the use of these results. Cascade Analytical line is a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical. Inc. for analysis.



(509) 662-1888

Batch: 101554 Client: Forsgren Associates Inc

Fax: (509) 662-8183 A

Account: 197

1-800-545-4206

Sampler: David Nitchels
PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003575

Date Received: 4/23/01

Sample Identification: E28-S03

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

Tank D		THE RESERVE TO THE PARTY OF THE		
- St Requested	Results	Units MDL Method	Date Analyzed Flag	<u>js </u>
arsenic Total Solid	106.5	mg/Kg 2.682 SW846	6010 5/ 3/01	
Lead Total Solids	174.	mg/Kg 2.3 SW846	6010 5/ 3/01	
otal Percent Solids	93.2	% 0.01 % SM 254	.0-B 4/26/01	garage and the second
otal Metals Digest Solid	Metals Di	gest SW846	3050 4/26/01	
Other Analysis	Analyzed	by SAS	4/30/01	

Approved By

Cascade Analytical uses procedures established by EPA, AOAC, APRA ASTM and AVVA & Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. ** Cascade Analytical ** Inc. ** Flability to the

Queen Wille



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101554

Client: Forsgren Associates Inc

Account: 197

Sampler: David Nitchels PO Number: 800.106.008

Analytical Services Report

Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003576 Sample Identification: E28-S07

Sample Comment: Eastmont 800.106.008

Date Received: 4/23/01

Date Sampled: 4/19/01

	그 글 세계 속맛속되어 하는 그 역사인		그 그 그 그 가장 그 그 가장 그 그 그 그 가지 않는 것 같습니다.	
rost Requested	Results	Units MDL	Method Date Analyzed	Flags
Arsenic Total Sol	id 26.52	mg/Kg 2.626	SW846 6010 5/3/01	
Lead Total Solids	2.8	mg/Kg 2.2	SW846 6010 5/ 3/01	
otal Percent Sol	ids 95.2	그는 그는 경하다 하다 하면 그 이 그를 보다 살아왔다.	SM 2540-B 4/26/01	
otal Metals Diges		크리를 다른 그렇게 이번을 하셨다. 그리고 사람이 됐다.	SW846 3050 4/26/01	
Other Analysis	Analyze	d by SAS	4/27/01	
二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十		그리는 이 전에 되었는데 중에 되었다. 그 사는 사는 사는 생각이 없다.		在一点,在100mm,200mm,在100mm,100mm。

Approved By: Juny W Junells

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and AVVA. Cascade Analytical makes no varranty of said the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc.'s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101554

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler PO Number: 800.106.008

Analytical Services Report

Report Date: 5/10/01

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003596

Date Received: 4/23/01

Sample Identification: E26-S07

Date Sampled: 4/19/01

Sample Comment: Eastmont 800.106.008

					o de tras de Arab de Ca			
	st Requested	Results	Units MDL	Method	Date Anal	yzed	Flags	
•	Arsenic Total Solid	12, 21	mg/Kg 2.7	'29 SW846	6010 - 5/ 3/01			v)
	Lead Total Solids	41.3	mg/Kg 2.3	SW846				
	otal Percent Solids		% 0.01					
	otal Metals Digest	Solid Metals D	igest	SW846	3050 4/26/01	en en en en en en en en en en en en en e		

Approved By: The Man

Cascade Analytical uses orocedures established by EPA AOAC, APHA, ASTM, and AWA. Cascade Analytical makes no varianty of each analytical makes no varianty of each analytical makes and liability from the user of these results. Cascade Analytical makes and liability to the



(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101553

Client: Forsgren Associates Inc

나타일을 살아 아름다면서 그는 사람들이 얼마를 가지 않는데 되었다. 경기

Account: 197

Sampler: Brad Ziegler

PO Number:

Services Analytical Report

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003538 Sample Identification: E34

Sample Comment: Soil

Date Received: 4/20/01 Date Sampled: 4/20/01

그는 병에 가는 이번 모두 가는 하는 것 같은데 그	그는 회원 함께 되면 되었다. 두 교육에는 이 것!			Control of American American Control of the Control	<u> Santania de la Catalancia de La C</u>
ist Requested	Results	Units MDL	Method	i Date Analy	yzed Flags
					물과 마르나는 가능한 글이 하는
Other Analysis	Analyzed	by SAS		5/ 1/01	

Approved By: Augus Wall

Cascade Analytical uses procedures established by EPA, ADAC APHA, ASTM, and AWA. Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc.'s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis.



(509) 662-1888

Batch: 101553

Fax: (509) 662-8183

Client: Forsgren Associates Inc

Account: 197

1-800-545-4206

Sampler: Brad Ziegler

PO Number:

Services Report Analytical

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003539

4/20/01 Date Received:

Sample Identification: Equipment Plant

Date Sampled: 4/20/01

Sample Comment: Water

		日本市場的開発の連続的 エトロー・ア	문화하다 이 작가용 <u>근 한사명 해 호</u>			AVEN THE WAR TO SEE THE TOTAL TO SEE THE SECOND SEC	_
3	st Requested	Resul	ts Units M	DL Met	hod Date A	nalyzed Flags	,
1	Arsenic Total	< 3	ug/L	3 SM	3113B 5/ 3/	01	
}	'ead Total	< 0.5	1강성하는 이 것이지를 잃었다고 함	0.5 EPA	239.2 4/27/		
	'otal Metals Digest	1. 14 14 75 이 라고를 함께 수십시다 그 모든데	ls Digest zed by SAS		4/27/ 4/28/		
	Uther Analysis	WildT	AZEU DY DAS				

Approved By: / Auth A Mark

Cascade Analytical uses procedures established by EPA, WOAC, APHA, ASTM, and ANVA. Cascade Analytical makes no varranty of a say kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. s liability to the client as a result of use of Cascade's test results shall be limited to a sum equal to the fees paid by the client to Cascade Analytical, Inc. for analysis. ...



(509) 662-1888

Batch: 101553

Client: Forsgren Associates Inc

Fax: (509) 662-8183

Account: 197

1-800-545-4206

Sampler: Brad Ziegler

PO Number:

Services Analytical Report

5/10/01 Report Date:

Forsgren Associates Inc David Nitchels 112 Olds Station Rd/Suite A Wenatchee, WA 98801

Laboratory Number: 01-E003540 Sample Identification: Field Blank Date Received: 4/20/01 Date Sampled: 4/20/01

Sample Comment: Water

	그 이 경험 사람들은 바로 바람이다.	[보호보다] 교육에서 보면 생활을 잃었다	in and the comment of the comment			કુ <u>જારાં છું કે કે કે લેવા છે. આ પ્રાથમિક પુરા</u> વાના હતા.
Ī	st Requested	R	esults Units	MDL Metho	od Date An	alyzed Flags
-	Arsenic Total		3 ug/L	3 SM 31	L13B 5/ 3/0	1
	'ead Total	[1996年] [1] [1] 人名英格勒克斯特 经国际 化氯化物 化电压	2.9 ug/l	< 0.5 EPA23		
	otal Metals Di		etals Digest		4/27/0	54、产乳类等等的有效性的。 医无数性皮肤 化水油 经基础的 1995年,2015
	Uther Analysis	A	nalyzed by SAS		4/25/0	L

Cascade Analytical uses procedures established by EPA, AOAC, APHA, ASTM, and ANNA: Cascade Analytical makes no varranty of any kind the client assumes all risk and liability from the use of these results. Cascade Analytical, Inc. 8 liability to the

Client Name Clieńt ID: Lab ID:	Cascade Analytical, Inc. 01E-3570 <u>E 25 - SO</u> 97707-11
Date Received:	4/24/01
Date Prepared:	4/25/01
Date Analyzed:	4/26/01
% Solids	89.32
Dilution Factor	10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	119		46	129
Triphenyl Phosphate	93.7		53	135

		Result		
Analyte		(ug/kg)	PQL	MDL Flags
Dichlorvos	ND		7	2.3
Mevinphos	ND		7	2.6
Demeton,O-S	ND	•	7	1.9
Ethoprop	ND		, 11	4.2
Naled	ND		21	7.3 ,
Sulfotepp	ND		7	1.9
Monocrotophos	ND		17	1.6
Phorate	ND		11	2.8
Dimethoate	ND		14	4.2
Diazinon	ND		21	- 8.7
Disulfoton	ND		14	5.4
Parathion, methyl	ND		11	2.8
Ronnel	ND		7	2.6
Malathion	ND		11	4.1
Chlorpyrifos	. ND		11	2.9
Fenthion	ND		11	3.9
Parathion	ND	7	7	2.4
Trichloronate	ND		11	3
Tetrachlorvinphos	ND		7 .	1.6
Fensulfothion	ND		11	3.4
Tokuthion	ND		11	2.9
Merphos	ND		. 21	8.3
Bolstar	ND		7	'2.5
EPN	ND		11	. 4.1
Azinphos,methyl	ND		7	2.7
Coumaphos	ND		11	4.9

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-3571 € 25.

 Lab ID:
 97707-12

 Date Received:
 4/24/01

 Date Prepared:
 4/25/01

 Date Analyzed:
 4/26/01

 % Solids
 89.53

 Dilution Factor
 10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	97.8		46	129
Triphenyl Phosphate	73.9		53	135

	Result	PQL	MDL Flags
Analyte	(ug/kg)	7.4	2.4
Dichlorvos	ND	7.4 7.4	2.8
Mevinphos	ND	7.4	2.0
Demeton,O-S	ND		4.4
Ethoprop	ND	11	
Naled	ND	22	7.6 2
Sulfotepp	ND	7.4	
Monocrotophos	ND	7.4	1.6
Phorate	ND	11	2.9
Dimethoate	ND	15	4.3
Diazinon	ND .	22	- 9.1
Disulfoton	ND	15	5.6
Parathion,methyl	ND	11	2.9
Ronnel	ND .	7.4	2.7
Malathion	ND	. 11	4.2
Chlorpyrifos	ND	11	3
Fenthion	ND	. 11	4.1
Parathion	ND	7.4	2.5
Trichloronate	ND	11	3.2
Tetrachlorvinphos	ND	7.4	1.7
Fensulfothion	ND	11	3.5
Tokuthion	ND	11	3.1
Merphos	ND	22	8.7
Bolstar	ND	7.4	2.6
EPN	ND	.11	4.3
Azinphos,methyl	ND	7.4	2.8
Coumaphos	ND	11	5.1

Cascade Analytical, Inc. Client Name 01E-3570 E25-SO1 Client ID: 97707-11 Lab ID: 4/24/01 Date Received: 4/25/01 Date Prepared: 4/26/01 Date Analyzed: % Solids 89.32 10 Dilution Factor

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	75.7		72	130

	Result			 ,
Analyte	(ug/kg)	PQL	MDL	Flags
Dalapon	ND	7.3	2.2	
4-Nitrophenol	ND	7.3	1.6	
Dicamba	ND	7.3	1.8	
Dichloroprop	ND	7.3	0.78	
2,4-D	ND	7.3	0.6	
Pentachlorophenol	ND	7.3	0.85	
Silvex (2,4,5-TP)	ND	7.3	2.3	
2,4,5-T	ND	7.3	1.6	
Dinoseb	ND	7.3	0.6	
2,4-DB	ND	7.3	· 1	
MCDD	ND	7.3	2	
MCPA	ND.	7.3	1.1	

Sound Analytical Services, Inc.

Client Name Client ID: Lab ID:	Cascade Analytical, Inc. 01E-3571 <i>E 25-5</i> 03 97707-12
Date Received:	4/24/01
Date Prepared:	4/25/01
Date Analyzed:	4/27/01
% Solids	89.53
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	81.7		72 ⁻	130

	Result		
Analyte	(ug/kg)	PQL	MDL Flags
Dalapon	ND	7	2.1
4-Nitrophenol	ND	7	1.6
Dicamba	ND	7	1.7
Dichloroprop	ND	7	0.75
2,4-D	ND	·- 7	0.58
Pentachlorophenol	ND	7	0.82
Silvex (2,4,5-TP)	ND	[7	2.3
2,4,5-T	ND	7	1.5
Dinoseb	ND	7	0.58
2,4-DB .	ND .	7	0.99
MCPP -	ND	7	1.9
MCPA	ND	7	1.1

Client Name

Cascade Analytical, Inc.

Client ID:

01E-3539 EGUIPMENT BLANK 97707-02

Lab ID:

4/24/01

Date Received: Date Prepared:

4/25/01

Date Analyzed:

4/28/01

% Solids

Dilution Factor

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	84.8		47	139
Decachlorobiphenyl	76.5		. 42	161

	Result		
Analyte	(ug/L)	PQL	MDL Flags
Aldrin	ND	0.01	0.0031
alpha-BHC	ND	0.01	0.0023
beta-BHC	ND	0.01	0.0025
delta-BHC	ND	0.01	0.0025
gamma-BHC (Lindane)	ND	0.01	0.0024
Chlordane (technical)	ND	0.1	0.066
4,4'-DDD	ND	0.021	0.0039
4,4'-DDE	ND	0.021	0.0039
4,4'-DDT	ND	0.021	0.0041
Dieldrin	ND	0.021	0.0036
Endosulfan I	ND	0.01	0.0035
Endosulfan II	ND	0.021	0.0033
Endosulfan sulfate	ND	0.021	0.0034
Endrin	ND	0.021	0.004
Endrin aldehyde	ND	0.021	0.0053
Heptachlor	ND	0.01	0.0028
Heptachlor epoxide	ND	0.01	0.0032
Methoxychlor	ND	0.1	0.0066
Endrin ketone	ND	0.021	0.0037
Toxaphene	ND	_ 1	0.15

Sound Analytical Services, Inc.

Client Name

Cascade Analytical, Inc.

Client ID:

01E-3540 FIELD BLANK 97707-03

Lab ID:

4/24/01

Date Received:

4/24/01

Date Prepared: Date Analyzed: 4/25/01

% Solids

4/28/01

Dilution Factor

-

Organochlorine Pesticides by USEPA Method 8081A

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	90.8		47	139
Decachlorobiphenyl	93.6		42	161

	Result		
Analyte	(ug/L)	PQL	MDL Flags
Aldrin	ND	0.011	0.0032
alpha-BHC	ND	0.011	0.0024
beta-BHC	ND	0.011	0.0026
delta-BHC	ND	0.011	0.0026
gamma-BHC (Lindane)	ND	0.011	0.0025
Chlordane (technical)	ND	0.11	0.068
4,4'-DDD `	ND	0.021	0.004
4,4'-DDE	ND	0.021	0.004
4,4'-DDT	ND	0.021	0.0042
Dieldrin	ND	0.021	0.0037
Endosulfan I	ND	0.011	0.0036
Endosulfan II	ND	0.021	0.0034
Endosulfan sulfate	ND	0.021	0.0035
Endrin	ND	0.021	0.0042
Endrin aldehyde	ND	0.021	0.0055
Heptachlor	ND	0.011	0.0029
Heptachlor epoxide	ND	0.011	0.0032
Methoxychlor	ND	0.11	0.0068
Endrin ketone	ND	0.021	0.0038
Toxaphene	ND	1.1	0.16

Cascade Analytical, Inc. Client Name 01E-3553 E 14-501 Client ID: 97707-07 Lab ID: 4/24/01 Date Received: 4/26/01 Date Prepared: 4/30/01 Date Analyzed: 85.16 % Solids Dilution Factor 1

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	81		49	134	
Decachlorobiphenyl	41.7		41	145	

		Result				
Analyte		(ug/kg)		PQL	MDL	Flags
Aldrin	ND			1.1	0.11	
alpha-BHC	ND			1.1	0.16	
beta-BHC			0.5	1.1	0.26	J C1
delta-BHC	ND			1.1	0.15	
gamma-BHC (Lindane)	ND			1.1	0.21	
Chlordane (technical)	ND			11	7.9	
4,4'-DDD			2.8	2.3	0.13	C2
4,4'-DDE			45	2.3	0.16	C1
4,4'-DDT			42	2.3	0.2	C1
Dieldrin	ND			2.3	0.27	
Endosulfan I	ND	•		1.1	0.17	
Endosulfan II	ND			2.3	0.33	
Endosulfan sulfate	ND			2.3	0.33	
Endrin	ND			2.3	0.35	
Endrin aldehyde	ND			2.3	0.41	
Heptachlor	ND			1.1	0.12	
Heptachlor epoxide	ND		•	1.1	0.2	
Methoxychlor	ND			11	0.94	
Endrin ketone	ND			2.3	0.36	
Toxaphene	ND			110	14	

Cascade Analytical, Inc. Client Name 01E-3556 E16-501 Client ID: 97707-08 Lab ID: Date Received: 4/24/01 Date Prepared: 4/26/01 Date Analyzed: 4/30/01 % Solids 90.98 Dilution Factor 1

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	82.7		49	134	
Decachlorobiphenyl	42.9		41	145	

		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND		1.1	0.11	
alpha-BHC	ND		,1.1	0.15	
beta-BHC	ND		1.1	0.25	
delta-BHC	ND		1.1	0.14	
gamma-BHC (Lindane)	ND		1.1	0.2	
Chlordane (technical)	ND		11	7.6	
4,4'-DDD	ND		2.2	0.13	
4,4'-DDE		150	2.2	0.15	C1
4,4'-DDT		, 120	2.2	0.19	C1
Dieldrin		0.91	2.2	0.26	J C1
Endosulfan I	ND		1.1	0.16	
Endosulfan II		2.4	2.2	0.32	C2
Endosulfan sulfate	ND		2.2	0.32	
Endrin	ND		2.2	0.34	
Endrin aldehyde	ND		2.2	0.4	
Heptachlor	ND		1,1	0.12	
Heptachlor epoxide	· ND		1.1	0.19	
Methoxychlor	. ND		11	0.9	
Endrin ketone	ND		2.2	0.35	
Toxaphene	ND		110	13	•

 Client Name
 Cascade Analytical, Inc.

 Client ID:
 01E-3557
 E /6 - 503

 Lab ID:
 97707-09
 4/24/01

 Date Received:
 4/24/01
 4/26/01

 Date Prepared:
 4/30/01
 85.3

 Dilution Factor
 1

Organochlorine Pesticides by USEPA Method 8081A

			Recovery Limits		
Surrogate	% Recovery	Flags	Low	High	
Tetrachloro-m-xylene	76.6		49	134	
Decachlorobiphenyl	37.1	X9	41	145	

		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND		1.1	0.11	
alpha-BHC	ND		1.1	0.15	
beta-BHC	ND		1.1	0.25	
delta-BHC	ND		1.1	0.15	
gamma-BHC (Lindane)	ND		1.1	0.21	
Chlordane (technical)	ND		11	7.7	
4,4'-DDD	ND		2.2	0.13	
4,4'-DDE		220	2.2	0.15	D C1
4,4'-DDT		180	2.2	0.19	D C1
Dieldrin		1.1	2.2	0.27	J C1
Endosulfan I	ND		1.1	0.16	
Endosulfan II		1.6	2.2	0.32	J C1
Endosulfan sulfate	ND		2.2	0.33	
Endrin	ND		2.2	0.34	
Endrin aldehyde	ND		2.2	0.41	
Heptachlor	ND		1.1	0.12	
Heptachlor epoxide	ND		1.1	0.2	
Methoxychlor	ND		11	0.92	
Endrin ketone	. ND		2.2	0.36	
Toxaphene	ND	-	110	13	

Client Name
Client ID:
Lab ID:
Date Received:
Date Prepared:
Date Analyzed:
% Solids

Dilution Factor

Cascade Analytical, Inc.

01E-3565 FA 041901
97707-10
4/24/01 (dupl. of HA 14-503)
4/26/01
4/30/01
89.84
1

Organochlorine Pesticides by USEPA Method 8081A

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	73.6		49	134
Decachlorobiphenyl	32.6	X9	41	145

		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND			1 0.1	
alpha-BHC	ND			1 0.14	
beta-BHC		0.	8	1 0.23	JC1
delta-BHC	, ND			1 0.14	
gamma-BHC (Lindane)	ND			1 0.19	
Chlordane (technical)	ND			10 7.1	
4,4'-DDD		1	2	2.1 0.12	C2
4,4'-DDE			· · · · ·	2.1 0.14	C1
4,4'-DDT		15	0 2	2.1 0.18	C1
Dieldrin		1	3 2	2.1 0.25	J·C1
Endosulfan I		1	8	1 0.15	C2
Endosulfan II	ND		2	2.1 0.3	
Endosulfan sulfate	ND		2	2.1 0.3	
Endrin	ND		2	2.1 0.32	
Endrin aldehyde	ND		2	2.1 0.38	
Heptachlor	ND			1 0.11	
Heptachlor epoxide	ND			1 0.18	
Methoxychlor .	ND			10 0.86	•
Endrin ketone	ND		:	2.1 0.33	
Toxaphene	ND			100 12	

Client Name
Client ID:
Lab ID:
Date Received:
Date Prepared:
Date Analyzed:
% Solids
Dilution Factor

Cascade Analytical, Inc.
01E-3570 E 25 - S0 I
4/24/01
4/24/01
4/26/01
4/27/01
20

Organochlorine Pesticides by USEPA Method 8081A

·			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	-	X8	49	134
Decachlorobiphenyl	-	X8	41	145

Sample results are on an as received basis.

)		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND		20	2	
alpha-BHC		3	20	2.8	JC1
beta-BHC	ND		20	4.5	
delta-BHC	ND		20	2.6	
gamma-BHC (Lindane)	. ND		20	3.7	
Chlordane (technical)	ND		200	140	
4,4'-DDD		110	40	2.3	C1
4,4'-DDE		550	40	2.8	C1
4,4'-DDT		4800	40	3.4	D C1
Dieldrin	ND		40	4.8	
Endosulfan I	ND		20	2.9	
Endosulfan II	ND		40	5.9	
Endosulfan sulfate	ND		40	5.9	
Endrin	ND	•	40	6.2	
Endrin aldehyde	ND		40	7.3	
Heptachlor .	ND		20	`2.2	
Heptachlor epoxide	ND		20	3.5	
Methoxychlor	ND		200	17	
Endrin ketone	ND	•	40	6.4	
Toxaphene	、ND		2000	240	

Client Name

Cascade Analytical, Inc.

Client ID:

01E-3571 E25-503

Lab ID:

97707-12

Date Received:

4/24/01

Date Prepared: Date Analyzed:

4/26/01

% Solids

4/27/01

Dilution Factor

1

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	52.3		49	134
Decachlorobiphenyl	31.2	X9	41	145

Sample results are on an as received basis.

		Result	·		
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND	,	0.94	0.094	
alpha-BHC	ND		0.94	0.13	
beta-BHC	ND.		0.94	0.21	
delta-BHC	ND		0.94	0.13	
gamma-BHC (Lindane)	ND		0.94	0.18	•
Chlordane (technical)	ND		9.4	6.5	
4,4'-DDD	ND		1.9	0.11	
4,4'-DDE		0.83	1.9	0.13	J C1
4,4'-DDT ·		5.2	1.9	0.16	C1
Dieldrin	ND		1.9	0.23	1
Endosulfan I	ND		0.94	0.14	
Endosulfan II	ND		1.9	0.28	
Endosulfan sulfate	ND		1.9	0.28	•
Endrin	ND		1.9	0.29	
Endrin aldehyde	ND		1.9	0.35	
Heptachlor	ND	•	0.94	0.1	
Heptachlor epoxide	ND		0.94	0.17	
Methoxychlor	ND	1-4	9.4	0.78	
Endrin ketone	ŊD		1.9	0.3	
Toxaphene	ND -	•	94	11	•

Cascade Analytical, Inc. Client Name 01E-3573 E26-SO1 Client ID: 97707-13 Lab ID: 4/24/01 Date Received: 4/26/01 Date Prepared: 4/30/01 Date Analyzed: 92.83 % Solids Dilution Factor 1

Organochlorine Pesticides by USEPA Method 8081A

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	92.9		49	134
Decachlorobiphenyl	59.8		41	145

•	•	Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND		1.1	0.11	
alpha-BHC		2.1	1.1	0.15	C1
beta-BHC		0.38	1.1	0.24	JC1
delta-BHC	ND		1.1	0.14	
gamma-BHC (Lindane)		0.25	1.1	0.2	JC1
Chlordane (technical)	ND		11	7.3	
4,4'-DDD `	ND	-	2.1	0.12	
4,4'-DDE		8.8	2.1	0.15	· C1
4,4'-DDT		1.2	2.1	0.18	JC1
Dieldrin	ND		2.1	0.26	
Endosulfan I	ND		1.1	0.15	
Endosulfan II	ND		2.1	0.31	
Endosulfan sulfate	ND		2.1	0.31	
Endrin	ND-		2.1	0.33	
Endrin aldehyde	ND		2.1	. 0.39	
Heptachlor	ND		1.1	0.12	
Heptachlor epoxide	ND		1,1	0.19	
Methoxychlor	· ND		11	0.88	·
Endrin ketone	ND		2.1	0.34	
Toxaphene	ND		110	13	

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3574 £26. SU3
Lab ID:	97707-14
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	92.3
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

	•		Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	78.9		49	134
Decachlorobiphenyl	42		41	145

		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND	-	1	0.1	
alpha-BHC	ND		1	0.15	
beta-BHC	ND		· 1	0.24	
delta-BHC	ND		1	0.14	
gamma-BHC (Lindane)	ND		1	0.2	
Chlordane (technical)	· ND		10	7.3	
4,4'-DDD	ND		2.1	0.12	
4,4'-DDE		1	2.1	0.15	J C1
4,4'-DDT	ND		2.1	0.18	
Dieldrin	ND		2.1	0.25	
Endosulfan I	ND		1	0.15	
Endosulfan II	ND		2.1	0.31	
Endosulfan sulfate	ND		2.1	0.31	
Endrin	ND		2.1	0.32	•
Endrin aldehyde	ND		2.1	0.38	
Heptachlor	ND		. 1 .	0.12	
Heptachlor epoxide	ND		1	0.19	•
Methoxychlor	ND	•	10	0.87	
Endrin ketone	· ND		2.1	0.34	
Toxaphene	. ND		100	13	

Cascade Analytical, Inc. Client Name 01E-3575 E28-S03 Client ID: 97707-15 Lab ID: Date Received: 4/24/01 Date Prepared: 4/26/01 4/30/01 Date Analyzed: % Solids 88.95 Dilution Factor 1

Organochlorine Pesticides by USEPA Method 8081A

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachioro-m-xylene	88.5		49	134
Decachlorobiphenyl	54.3		41	145

	Result			
Analyte	(ug/kg)	PQL	MDL	Flags
Aldrin ND		1.1	0.11	
alpha-BHC	0.25	1.1	0.15	J C2
beta-BHC	8	1.1	0.25	C1
delta-BHC ND		1.1	0.15	
gamma-BHC (Lindane) ND		1.1	0.21	
Chlordane (technical) ND	-	11	7.7	
4,4'-DDD ND		2.2	0.13	
4,4'-DDE	27	2.2	0.16	C1
4,4'-DDT	. 35	2.2	0.19	C1
Dieldrin ND		2.2	0.27	
Endosulfan i ND		1.1	0.16	
Endosulfan II ND		2.2	0.33	
Endosulfan sulfate ND		2.2	0.33	
Endrin ND		2.2	0.34	
Endrin aldehyde ND	. ب	2.2	0.41	
Heptachlor ND		1.1	0.12	
Heptachlor epoxide ND		1.1	0.2	
Methoxychlor ND		11	0.92	
Endrin ketone ND		2.2	0.36	
Toxaphene ND		110	13	•

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3576 E28-507
Lab ID:	97707-16
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/27/01
% Solids	92.34
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

			Recov	Recovery Limits		
Surrogate Tetrachloro-m-xylene Decachlorobiphenyl	% Recovery 92.1 81	Flags	Low 49 41	High 134 145		

		Result			
Analyte		(ug/kg)	PQL	MDL	Flags
Aldrin	ND		1	0.11	
alpha-BHC	ND		1	0.15	
beta-BHC		1.8	1	0.24	. C1
delta-BHC	ND		1	0.14	
gamma-BHC (Lindane)	ND		1	0.2	
Chlordane (technical)	ND		10	7.3	
4,4'-DDD	ND		2.1	0.12	
4,4'-DDE	ND		2.1	0.15	
4,4'-DDT	ND		2.1	0.18	
Dieldrin	ND		2.1	0.26	
Endosulfan I	ND		1	0.15	
Endosulfan II	ND		2.1	0.31	
Endosulfan sulfate	ND	V	2.1	0.31	
Endrin	ND		2.1	0.33	
Endrin aldehyde	ND		2.1	0.39	
Heptachlor	ND	÷	1	0.12	
Heptachlor epoxide	ND		1	0.19	
Methoxychlor	ND		10	0.87	
Endrin ketone	ND	•	2.1	0.34	
	ND		100	13	
Toxaphene	140				

Client Name
Client ID:
Lab ID:
Date Received:
Date Prepared:
Date Analyzed:
% Solids
Dilution Factor

Cascade Analytical, Inc.
01E-3538 £ 34 (e wy tank)
97707-01

4/24/01

5/1/01

5/1/01

93.89

Dilution Factor

NWTPH-HCID - Hydrocarbon Identification Method for Soil Modified

			Recove	ry Limits
Surrogate	% Recovery	Flags	Low	High
1-chlorooctane	89.1		50	150
o-terphenyl	94.4		50	150

Analyte	Result (mg/kg)	MDL	Flags
Gasoline (Toluene-nC12)	<20	20	
Diesel (>nC12-nC24)	<49	49	
Motor Oil (>nC24-nC32)	<99	99	

Client Name Project Name Date Received Cascade Analytical, Inc. Forsgren& Associates 04-24-01

Sample Preparation Information for Toxicity Characteristic Leaching Procedure (TCLP) EPA Method 1311

> Client Sample ID Lab ID

01E-3544 97707-04

% Solids: 100
No. of Extractions: 1
Type of Extraction(s): rotary
Extraction Fluid: #1
Date Filtered: 05-01-01

Client Name

Client ID:

Lab ID:

Date Received:

Date Prepared:

Date Analyzed:

Dilution Factor

Analyte

Arsenic

Lead

Cascade Analytical, Inc.

01E-3544 E12-501

97707-04

4/24/01

5/1/01

5/1/01

1

TCLP Metals by ICP - USEPA Method 6010

0.62

Result

(mg/L)

PQL

0.2

Flags

ND

0.1

20

Client Name Project Name Date Received Cascade Analytical, Inc. Forsgren& Associates 04-24-01

Sample Preparation Information for Toxicity Characteristic Leaching Procedure (TCLP) EPA Method 1311

> Client Sample ID Lab ID

01E-3546 97707-05

% Solids:

100

No. of Extractions:

1

Type of Extraction(s):

rotary

Extraction Fluid: Date Filtered:

#1 05-01-01

Client Name

Client ID:

Lab ID:

Date Received:

Date Prepared:

Date Analyzed: **Dilution Factor**

Analyte

Arsenic

Lead

Cascade Analytical, Inc.

01E-3546 E 12-503

97707-05

4/24/01

5/1/01

5/1/01

1

TCLP Metals by ICP - USEPA Method 6010

Result

(mg/L)

0.58

PQL 0.2

ND

0.1

Flags

Client Name Project Name Date Received Cascade Analytical, Inc. Forsgren& Associates 04-24-01

Sample Preparation Information for Toxicity Characteristic Leaching Procedure (TCLP) EPA Method 1311

> Client Sample ID Lab ID

01E-3548 97707-06

% Solids:

100

No. of Extractions:

1

Type of Extraction(s):

rotary

Extraction Fluid: Date Filtered:

#1 05 01 0

05-01-01

Client Name

Client ID:

Lab ID:

Date Received:

Date Prepared: Date Analyzed:

Dilution Factor

Analyte

Arsenic

Lead

Cascade Analytical, Inc.

01E-3548 E12-505

97707-06

4/24/01

5/1/01

5/1/01

1

TCLP Metals by ICP - USEPA Method 6010

0.25

Result

(mg/L)

PQL

0.2

Flags

ND

0.1

Lab ID:

Method Blank - OS0030

Date Received:

Date Prepared:

4/25/01 4/26/01

10

Date Analyzed: % Solids

Dilution Factor

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tributyl Phosphate	88.7		46	129
Triphenyl Phosphate	94.9		53	135

Sample results are on an as received basis.

A luda	Result (ug/kg)	PQL	MDL	Flags
Analyte	ND	6.7	2.1	
Dichlorvos	ND	6.7	2.5	
Mevinphos Demeton,O-S	ND	6.7	1.8	
Ethoprop	ND	10	4	
Naled	ND	20	6.9	
Sulfotepp	ND	6.7	1.8	
Monocrotophos	ND .	6.7	1.5	
Phorate	ND	10	2.7	
Dimethoate	ND	13	3.9	
Diazinon	ND	20	8.2	
Disulfoton	ND	13	5.1	
Parathion, methyl	ND	10	2.6	
Ronnel	ND	6.7	2.4	
Malathion	ND	10	3.8	
Chlorpyrifos	ND	10	2.7	
Fenthion	ND	10	3.7	
Parathion	ND	6.7	2.3	
Trichloronate	ND	10	2.9	
Tetrachlorvinphos	ND	6.7	1.6	
Fensulfothion	ND	10	3.2	
Tokuthion	ND	10	2.8	
Merphos	ND	20	7.9	
Bolstar	ND	6.7	2.3	
EPN	ND	10	3.9	
Azinphos,methyl	ND	6.7	2.6	
Coumaphos	ND .	10	4.6	24

Blank Spike Report

Lab ID:	OS0030
Date Prepared:	4/25/01
Date Analyzed:	 4/26/01
QC Batch ID:	OS0030

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

Parameter Name Diazinon Malathion Chlorpyrifos	Blank Result (ug/kg) 0 0 0	Spike Amount (ug/kg) 670 670 670	BS Result (ug/kg) 483 484 539	BS % Rec. 72 73 81	Flag
Azinphos,methyl	0	670	497	75	

Matrix Spike/Matrix Spike Duplicate Report

 Client Sample ID:
 01E-3570

 Lab ID:
 97707-11

 Date Prepared:
 4/25/01

 Date Analyzed:
 4/26/01

 QC Batch ID:
 OS0030

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

	Sample	Spike	MS	MS	MSD Result	MSD		X
Compound Name	Result (ug/kg)	Amount (ug/kg)	Result (ug/kg)	% Rec.	(ug/kg)	% Rec.	RPD	Flag
Diazinon	0	730	556	76.2	620	84	9.7	
Malathion	0	730	609	83.4	667	90.4	8.1	
Chlorpyrifos	0	730	652	89.3	763	103	14	
Azinphos,methyl	0	730	697	95.5	667	90.3	-5.6	

Sound Analytical Services, Inc.

Lab ID:

Method Blank - HS0065

Date Received:

Date Prepared:

4/25/01

Date Analyzed: % Solids

4/26/01

Dilution Factor

10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
2,4-Dichlorophenylacetic acid	96.6		72	130

Sample results are on an as received basis.

		Result				
Analyte		(ug/kg)	PQL	-	MDL	Flags
Dalapon	ND	•		6.7	2	
4-Nitrophenol	ND			6.7	1.5	
Dicamba	ND			6.7	1.6	
Dichloroprop	ND			6.7	0.71	
2,4-D	ND			6.7	0.55	
Pentachlorophenol	ND			6.7	0.78	
Silvex (2,4,5-TP)	ND		r Den en lag	6.7	2.1	
2,4,5-T	ND			6.7	1.5	
Dinoseb	, ND			6.7	0.55	
2,4-DB .	ND			6.7	0.93	
MCPP	ND			6.7	1.8	
MCPA	ND			6.7	1.	

Blank Spike Report

 Lab ID:
 HS0065

 Date Prepared:
 4/25/01

 Date Analyzed:
 4/26/01

 QC Batch ID:
 HS0065

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

Parameter Name Dalapon Dicamba 2,4-D Pentachlorophenol Silvex (2,4,5-TP) Dinoseb	Blank Result (ug/kg) 0 0 0 0 0	Spike Amount (ug/kg) 670 670 670 670 670	BS Result (ug/kg) 202 467 651 707 588 546	BS % Rec. 30 70 98 106 88 82	Flag
Dinoseb MCPP	0	670 670	679	102	

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID:

Lab ID:

Date Prepared:

Date Analyzed:

QC Batch ID:

01E-3570

97707-11

4/25/01 4/26/01

HS0065

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

	Sample	Spike	MS		MSD			
	Result	Amount	Result	MS	Result	MSD	erest.	
Compound Name	(ug/kg)	(ug/kg)	(ug/kg)	% Rec.	(ug/kg)	% Rec.	RPD	Flag
Dalapon	0	732	223	30.5	199	28.1	-8.2	
Dicamba	0	732	614	83.9	616	87.1	3.7	• ,
2,4-D	0	732	662	90.4	548	77.4	-15	
Pentachlorophenol	0	732	700	95.6	602	85	-12	
Silvex (2,4,5-TP)	0	732	687	93.9	533	75.3	-22	
Dinoseb.	0	732	581	79.3	624	88.1	11	
MCPP	0	732	664	90.7	575	81.3	-11	

Sound Analytical Services, Inc.

Lab ID:

Method Blank - PE2655

Date Received: Date Prepared:

4/25/01

Date Analyzed: % Solids

4/28/01

Dilution Factor

			Recov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	98.7		47	139
Decachlorobiphenyl	90.3		42	161

		Result			
Analyte		(ug/L)	PQL	MDL	Flags
Aldrin	ND		0.01	0.003	
alpha-BHC	ND		0.01	0.0023	
beta-BHC	ND		0.01	0.0024	
delta-BHC	ND		0.01	0.0024	
gamma-BHC (Lindane)	ND		0.01	0.0024	
Chlordane (technical)	ND		0.1	0.064	
4,4'-DDD	ND		0.02	0.0037	
4,4'-DDE	ND		0.02	0.0037	
4,4'-DDT	ND		0.02	0.004	
Dieldrin	ND		0.02	0.0035	
Endosulfan I	ND		0.01	0.0034	
Endosulfan II	ND		0.02	0.0032	
Endosulfan sulfate	ND		0.02	0.0033	
Endrin	ND		0.02	0.0039	
Endrin aldehyde	ND		0.02	0.0052	
Heptachlor	ND		0.01	0.0027	
Heptachlor epoxide	ND		0.01	0.0031	
Methoxychlor	ND		0.1	0.0065	
Endrin ketone	ND		0.02	0.0036	
Toxaphene	ND		1	0.15	

Lab ID:

Method Blank - PE1373

Date Received:

Date Prepared:

4/26/01

Date Analyzed:

4/27/01

% Solids
Dilution Factor

4

Organochlorine Pesticides by USEPA Method 8081A

			Recove	ery Limits
Surrogate	% Recovery	Flags	Low	High
Tetrachloro-m-xylene	95.2		49	134
Decachlorobiphenyl	83.4	•	41	145

Sample results are on an as received basis.

	B	Result					
Analyte		(u g /kg)	PQL		N	IDL	Flags
Aldrin	ND			1		0.1	
alpha-BHC	ND			1	٠.	0.14	
beta-BHC	ND			1		0.23	•
delta-BHC	ND			1		0.13	
gamma-BHC (Lindane)	ND			1	•	0.19	
Chlordane (technical)	ND			10		7	
4,4'-DDD	ND		i	2		0.12	
4,4'-DDE	ND		lance and	2		0.14	
4,4'-DDT	ND			2		0.17	
D iëldrin	ND			2		0.24	
Endosulfan I	ND			1		0.15	
Endosulfan II	ND			2		. 0.3	
Endosulfan sulfate	ND			2		0.3	
Endrin	ND			2		0.31	-
Endrin aldehyde	ND			2		0.37	
Heptachlor	ND			1		0.11	
Heptachlor epoxide	ND			1		0.18	•
Methoxychlor	ND	· .		10		0.83	
Endrin ketone	ND			2		0.32	
Toxaphene	. ND	. -	1	00	1 Age and the same	12	

Blank Spike/Blank Spike Duplicate Report

Lab ID:
Date Prepared:
Date Analyzed:
QC Batch ID:

PE2655 4/25/01 4/28/01 PE2655

	Blank Result	Spike Amount	BS Result	BS	BSD Result	BSD		
Compound Name	(ug/L)	·µg/L)	(ug/L)	% Rec.	(ug/L)	% Rec.	RPD	Flag
Aldrin	0	0.25	0.223	89.3	0.228	91.3	2.2	
gamma-BHC (Lindane)	0	0.25	0.204	81.7	0.212	84.9	3.8	
4,4'-DDT	0	0.5	0.486	97.2	0.517	103	5.8	
Dieldrin	0	0.5	0.476	95.3	0.5	100	4.8	
Endrin	0	0.5	0.432	86.5	0.457	91.3	5.4	
Heptachlor	0	0.25	0.254	102	0.261	105	2.9	

Blank Spike/Blank Spike Duplicate Report

Lab ID:
Date Prepared:
Date Analyzed:
QC Batch ID:

PE1373 4/26/01 4/27/01 PE1373

**	Blank Result	Spike Amount	BS Result	BS	BSD Result	BSD		2
Compound Name	(ug/kg)	(ug/kg)	(ug/kg)	% Rec.	(ug/kg)	% Rec.	RPD	Flag
Aldrin	0	25	21.2	84.7	22	87.8	3.6	_
gamma-BHC (Lindane)	0	25	20	80	20.6	82.4	3	
4,4'-DDT	0	50	42.2	84.3	46.9	93.9	.11	
Dieldrin	0	50	41.1	82.3	44.5	89.1	7.9	
Endrin	0	50	40.8	81.7	43.9	87.8	7.2	
Heptachlor	0	25	^ l.1	96.2	24.9	99.8	3.7	

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID: Lab ID: Date Prepared: Date Analyzed:

QC Batch ID:

01E-3576 97707-16 4/26/01 4/27/01 PE1373

	Sample Result	Spike Amount	MS Result	MS	MSD Result	MSD	000	Flara.
Compound Name	(ug/kg)	(ug/kg)	(ug/kg)	% Rec.	(ug/kg)	% Rec.	RPD	Flag
Aldrin	0	24.2	21.2	87.5	21.6	88.4	1	
gamma-BHC (Lindane)	0	24.2	20.1	83.1	20.4	83.4	0.36	
4,4'-DDT	0	48.4	44.8	92.5	43.7	89.4	-3.4	
Dieldrin	0	48.4	43.4	89.7	43.3	88.6	-1.2	
Endrin	0.	48.4	43.1	89.1	43.5	89	-0.11	
Heptachlor	0	24.2	23.9	98.9	24.4	99.8	0.91	

Lab ID:

Method Blank - HC578

Date Received:

5/1/01

Date Prepared:

Date Analyzed:

5/1/01

% Solids Dilution Factor

20

NWTPH-HCID - Hydrocarbon Identification Method for Soil Modified

	ı		Recove	ry Limits
Surrogate 1-chlorooctane	% Recovery 86.8	Flags	Low 50 50	High 150 150
o-terphenyl	92		30	150

Sample results are on an as received basis.

Analyte	Result (mg/kg)	MDL	Flags
Gasoline (Toluene-nC12)	<20	20	
Diesel (>nC12-nC24)	<50	5 0	
Motor Oil (>nC24-nC32)	<100	100	

Duplicate Report

 Client Sample ID:
 01E-3538

 Lab ID:
 97707-01

 Date Prepared:
 5/1/01

 Date Analyzed:
 5/1/01

 QC Batch ID:
 HC578

NWTPH-HCID - Hydrocarbon Identification Method for Soil Modified

Parameter Name	Sample Result (mg/kg)	Duplicate Result (mg/kg)	RPD %	Flag
· · · · ·	(111 9 /11 9 /	<20	NC	
Gasoline (Toluene-nC12)				
Diesel (>nC12-nC24)	<49	<50	NC	
Motor Oil (>nC24-nC32)	<99	<100	NC	

Lab ID:

Method Blank - LP510

Date Received:

Date Prepared:
Date Analyzed:
Dilution Factor

5/1/01 5/1/01

1

TCLP Metals by ICP - USEPA Method 6010

Analyte

Arsenic Lead Result (mg/L) ND ND

PQL

0.2 0.1 Flags

Duplicate Report

ESW042710185
97809-01
5/1/01
5/1/01
LP510

Metals by ICP - USEPA Method 6010

Matrix Spike Report

 Client Sample ID:
 ESW042710185

 Lab ID:
 97809-01

 Date Prepared:
 5/1/01

 Date Analyzed:
 5/1/01

 QC Batch ID:
 LP510

Metals by ICP - USEPA Method 6010

Sample Result Parameter Name (mg/L) Arsenic 0 Lead 14	Spike Amount (mg/L) 5 5	MS Result (mg/L) 5.31 19.6	MS % Rec. 106 106	Flag
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Sound Analytical Services, Inc.

ANALYTICAL & ENVIRONMENTAL CHEMISTS 5755 8th Street East o Tacoma, WA 98424 (253) 922-2310 o FAX (253) 922-5047

e-mail: info@saslab.com



DATA QUALIFIERS AND ABBREVIATIONS

- B1: This analyte was detected in the associated method blank. The analyte concentration was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).
- B2: This analyte was detected in the associated method blank. The analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).
- C1: Second column confirmation was performed. The relative percent difference value (RPD) between the results on the two columns was evaluated and determined to be $\leq 40\%$.
- C2: Second column confirmation was performed. The RPD between the results on the two columns was evaluated and determined to be > 40%. The higher result was reported unless anomalies were noted.
- M: GC/MS confirmation was performed. The result derived from the original analysis was reported.
- D: The reported result for this analyte was calculated based on a secondary dilution factor.
- E: The concentration of this analyte exceeded the instrument calibration range and should be considered an estimated quantity.
- J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.
- MCL: Maximum Contaminant Level
- MDL: Method Detection Limit
- N: See analytical narrative.
- ND: Not Detected
- PQL: Practical Quantitation Limit
- X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be
- X2: Contaminant does not appear to be "typical" product.
- X3: Identification and quantitation of the analyte or surrogate was complicated by matrix interference.
- X4: RPD for duplicates was outside advisory QC limits. The sample was re-analyzed with similar results. The sample matrix may be nonhomogeneous.
- X4a: RPD for duplicates outside advisory QC limits due to analyte concentration near the method practical quantitation limit/detection limit.
- X5: Matrix spike recovery was not determined due to the required dilution.
- X6: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Sample was reanalyzed with similar results.
- X7: Recovery and/or RPD values for matrix spike(/matrix spike duplicate) outside advisory QC limits. Matrix interference may be indicated based on acceptable blank spike recovery and/or RPD.
- X7a: Recovery and/or RPD values for this spiked analyte outside advisory QC limits due to high concentration of the analyte in the original sample.
- X8: Surrogate recovery was not determined due to the required dilution.
- X9: Surrogate recovery outside advisory QC limits due to matrix interference.

APPENDIX E ANALYTICAL PROGRAM

E-2 DATA QUALITY REVIEW

than 6020, however, most results reported were detected above the reporting limit for 6010, therefore, impact to the project should be low.

 No supporting raw data or laboratory data narrative were included in the reports, so complete validation of the data could not be performed.

Data Quality Summary

Total Metals by US EPA Method SW6010

Data Summary: A total of 89 soil samples and 2 aqueous samples were collected and analyzed for Arsenic and Lead analysis by SW6010, with the exception of data not provided for the samples listed above. An additional 6 soil samples were collected and analyzed for 8 RCRA Metals by Methods SW6010 (barium, cadmium, chromium, lead, and silver), SW7060 (arsenic), SW7471 (mercury), and SW7740 (selenium) and an additional 3 soil samples were collected and analyzed for Arsenic and Lead by TCLP/SW6010. Qualifications were required for 3 soil samples due to low matrix spike/matrix spike duplicate (MS/MSD) recoveries possibly due to matrix interference and 1 soil sample for high matrix spike/matrix spike duplicate recoveries due to high analyte level in the parent sample.

Data Quality Assessment: The data reported by the laboratory are of an acceptable quality for the purposes of the project. Data quality deficiencies, as noted by qualifications, indicate the potential for low or high bias for the analytes with low or high MS/MSD recoveries.

Organochlorine Pesticides by US EPA Method SW8081A

Data Summary: A total of 30 soil samples and 2 aqueous samples were collected and analyzed for pesticides by SW8081A. Qualifications were required for 8 soil samples due to low surrogate recovery and/or second column confirmation reproducibility (RPD) of greater than 40%.

Data Quality Assessment: The data reported by the laboratory are of an acceptable quality for the purposes of the project. Data quality deficiencies, as noted by qualifications, indicate

the potential for low bias for the samples with low surrogate recovery. The potential for high bias is noted for analytes with >40% RPD of the confirmation analysis and these results should be considered as estimated.

Organophosphorus Pesticides by US EPA Method SW8141

Data Summary: A total of 9 soil samples were collected and analyzed for organophosphorus pesticides by SW8141.

Data Quality Assessment: The data reported by the laboratory are of an acceptable quality for the purposes of the project.

Chlorinated Herbicides by US EPA Method SW8151A

Data Summary: A total of 9 soil samples were collected and analyzed for chlorinated herbicides by SW8151A.

Data Quality Assessment: The data reported by the laboratory are of an acceptable quality for the purposes of the project.

Total Petroleum Hydrocarbon by NWTPH-HCID

Data Summary: A total of 1 soil sample was collected and analyzed for total petroleum hydrocarbon by NWTPH-HCID.

Data Quality Assessment: The data reported by the laboratory are of an acceptable quality for the purposes of the project.

APPENDIX F GRADING PLAN (in pocket)