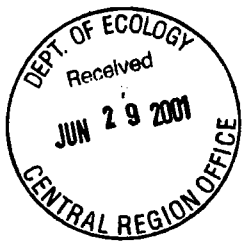
SITE ASSESSMENT AND REMEDIAL ACTION REPORT FOR THE PROPOSED EASTMONT JUNIOR HIGH SCHOOL EAST WENATCHEE, WASHINGTON

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

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

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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).

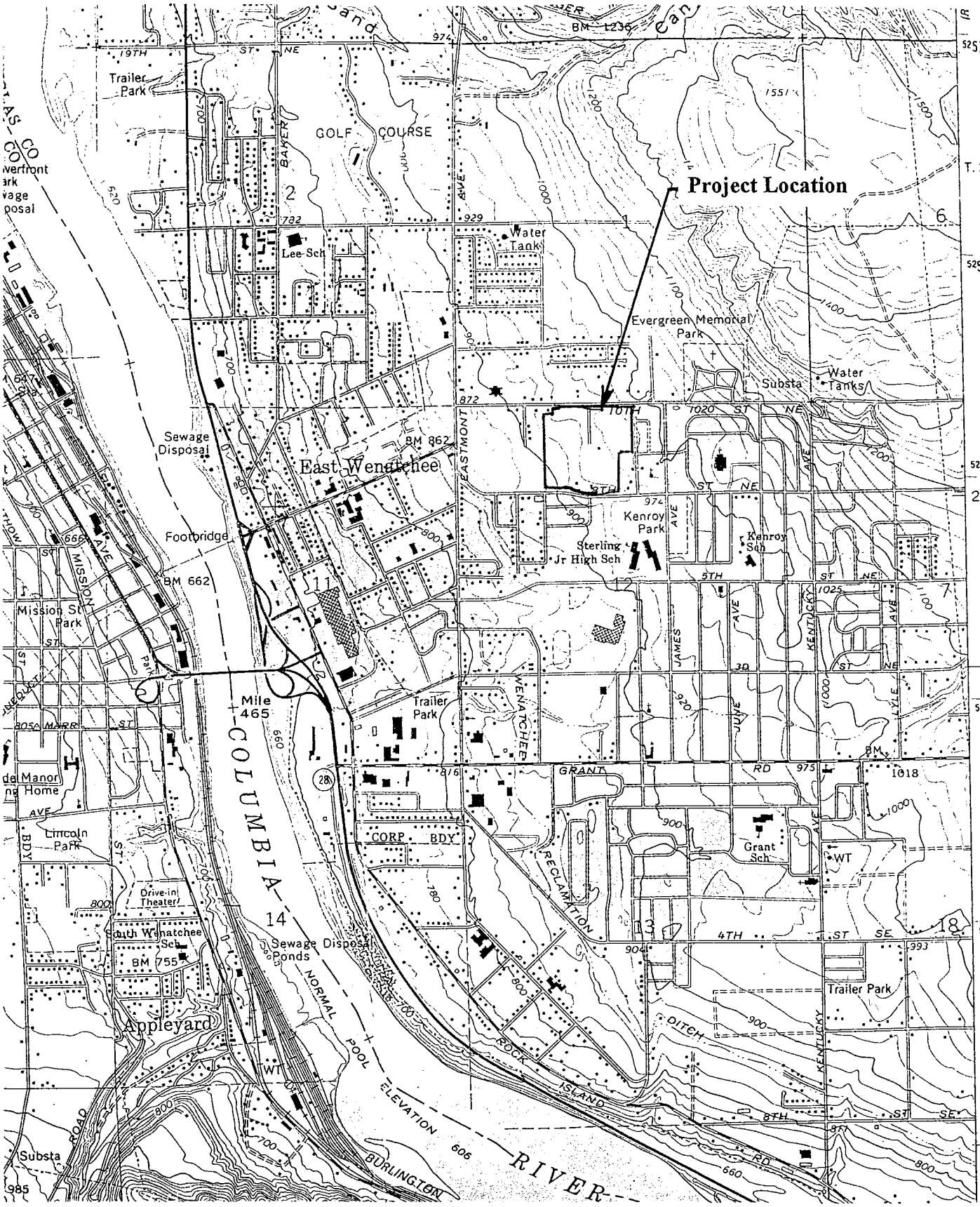
2.0 Site Location and Background

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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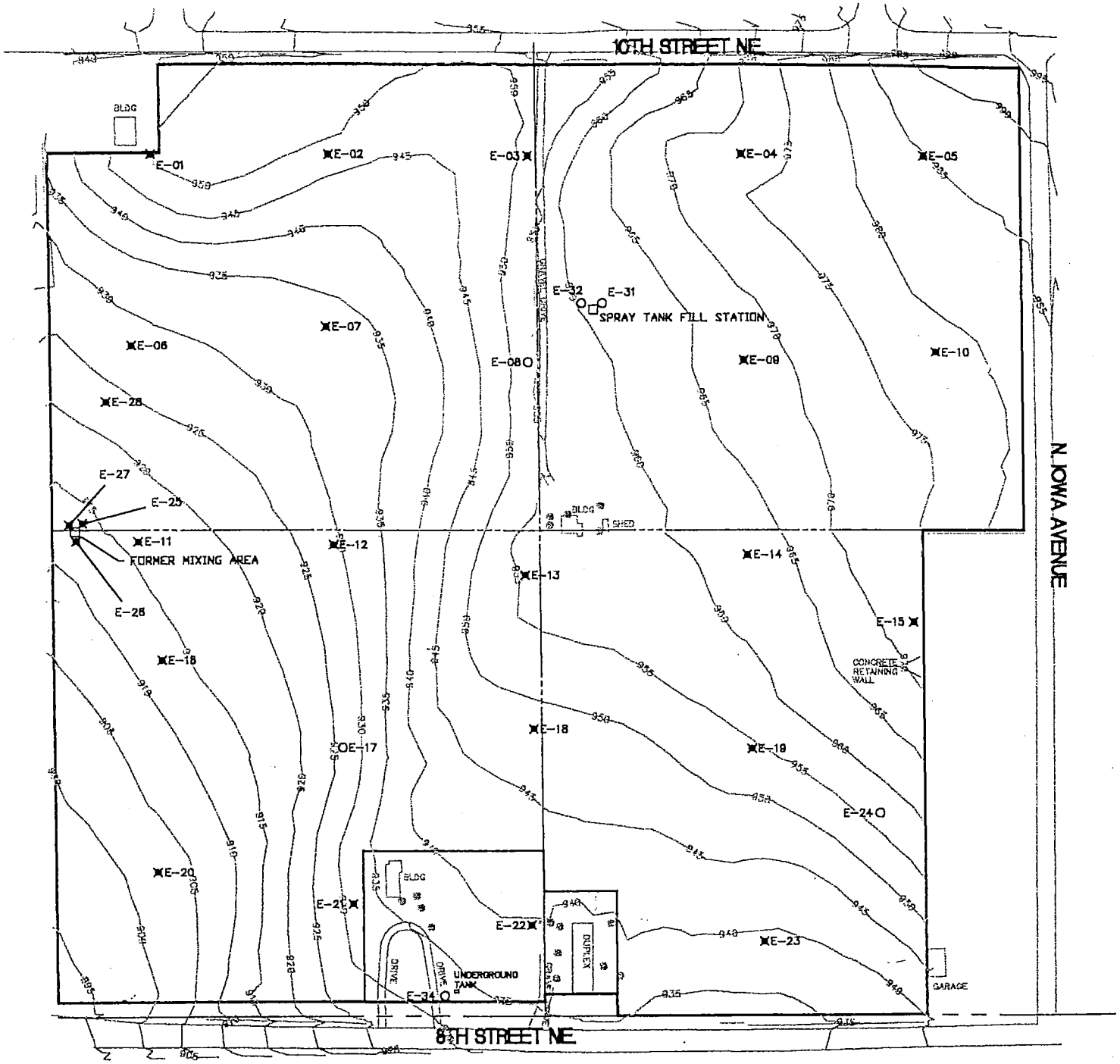
DRAWN	SCALE 1"=2,000'	EASTMONT JR. HIGH SITE LOCATION MAP	Fig. 1
DATE 5/17/01	800-106.008		



LEGEND

⊠ SURVEYED LOCATION OF SAMPLING STATION

○ APPROXIAMTE LOCATION OF SAMPLING STATION

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

FORSGREN ASSOCIATES / INC.

DRAWN JW	SCALE 1"=200'	EASTMONT JR. HIGH SOIL SAMPLING MAP	Fig. 2
DATE 5/17/01	800-106.008		

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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	TCLP
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	TCLP
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	TCLP
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	

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 Depth*	Sample Date	8 RCRA Metals							
			As	Ba	Cd	Cr	Pb	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 ID	Sample Depth*	Sample Date	DDD	DDE	DDT	beta-BHC	Dieldrin	Endo-sulfan II	Additional Organochlorine Pesticide Detections
E02-S01	0.5	4/18/01	<0.13	1200	9200	<0.21	<0.23	<0.28	gamma BHC=0.52
E02-S03	1.5	4/18/01	<0.12	13	28	4.1	<0.25	<0.31	none
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	2	0.96	<0.21	<0.23	<0.28	none
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	66.0	9.2	<0.21	<0.23	<0.28	none
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	130	280	<0.21	<0.23	<0.28	alpha BHC=0.79, gamm BHC=0.37
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	<0.33	none
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	220	180	<0.25	1.1	1.6	none
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	220	320	<0.24	<0.25	<0.31	none
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	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, gammaBHC=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 in-house 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

Have you discussed this site with an Ecology representative in the past? Yes (our consultant has)
If yes, what is that person's name? Rick Roeder, Ecology-Yakima
And the approximate date? most recently May 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) ☐ Any other existing reports on this site
☐ A Check or Money Order for $500 made out to "Department of Ecology"

Applicant completes this section: *(Note: The applicant is responsible for all billings)*

Applicant Name: Joel Thaut, Superintendent		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, west of Iowa Street			
City: East Wenatchee	State: WA	Zip: 98802	County: Douglas
Site Owner Name: Eastmont School District			
Site Owner Address: see above		Phone:	
City:	State:	Zip:	

I, Joel Thaut request the assistance of the Department of Ecology. With this Application I have enclosed $500. I understand that: this payment is the equivalent of approximately eight (8) hours of staff review and/or assistance on the cleanup of my contaminated site; actual charges will depend on specific staff and charge-out rates of that staff; if total charges are greater than $500. I will be billed for and I agree to pay the remainder; and any excess payments will be refunded to me.

Joel Thaut 5/17/01
Signature of Applicant Date

Note: The 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. #	173-02-94-005000-5000- -
			(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

 (SIS, LUST, VCP)

Voluntary Cleanup Program

Washington State - Department of Ecology - Toxics Cleanup Program

Site Summary

This Summary is a required component of your request for assistance under the Voluntary Cleanup Program

Which of the following apply?

- [X] Requesting assistance on a planned cleanup
- [ ] Requesting assistance on an ongoing cleanup.
- [ ] Requesting review of a completed cleanup.

Note: If you submitted your Request for Assistance (ECY 020-74) previously without a Site Summary (this form) or this is a revised Site Summary, Please provide this completed form to Ecology at least five (5) working days prior to the meeting/site visit/documentation review (whichever comes first).

A) Site Identification:

Name of Site: proposed Eastmont Junior High School

Alternate Name(s) for Site:

Street Address of Site: unknown -- between 8th & 10th NE, west of Iowa Street

City: East Wenatchee State: WA Zip: 98802

County: Douglas UBI Number:

Mailing Address (if different from above): Eastmont School District 460 9th Avenue NE

City: East Wenatchee State: WA Zip: 98802

Township 22N Range 20E Section 12 Quarter-Quarter NE 1/4 of NW 1/4

If Known:

Latitude: 47 Degree 25 Minute Second

Longitude: 120 Degree 16 Minute Second

Method used to calculate Latitude and Longitude: interpolate on USGS map.

How large (in acres) is the site? about 36

Please attach two maps to this form.

1) An area map, showing general location of the site in relation to surrounding bodies of water, cities, highways, and streets. (Please mark site location.)

2) A site diagram showing surrounding cross-streets, labeled building outlines, sampling and well locations, etc.

B) Person/Organization Making Request for Assistance/Review:

Name: David Nitchals, PE

Firm: Forsgren Associates, Inc

Street Address: 112 Olds Station Road, Suite A

City: Wenatchee State: WA Zip: 98801

Telephone Number: 509-667-1426 Extension: not applicable

Fax Number: 509-663-6166 e-mail address: dnitchals@forsgren.com

Remediation:

Has any site cleanup work been done at the site? yes ☐ no ☒ XX in-progress ☐
If yes, please continue to answer the remaining questions in this section to the best of your ability.

When was the cleanup work done? NOT APPLICABLE
Were results reported to Ecology? yes ☐ no ☐ date
Describe: (list reports in "E" below)

Does contamination remain on-site after cleanup activities? yes ☐ no ☐
If yes, describe: (list reports in "E" below)

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.)

Title:	By:	Date:
In progress	Forsgren Associates, Wenatchee	

Is additional information concerning the contaminants treated or removed, or cleanup or remediation methods used available in a data base? yes ☐ no ☒ If yes, what programming software is use?
Is a copy included for our use? yes ☐ no ☒

F) Property Type: Commercial ☐ Industrial ☐ Residential ☐ Other ☒ (Please specify) agriculture
Property currently being used? yes ☐ no ☒
Plans for change in use? yes ☒ no ☐ If yes, please specify: The property was apple orchard. It is planned for use as a junior high school.

G) Standard Industrial Classification (SIC) Codes:

List all that apply. If none apply, or if you don't know your SIC code, list activities conducted at the site (i.e. automotive repair and maintenance, construction equipment storage, etc.).

Formerly orchard

H) Dangerous Waste Facilities:

Does the facility have a dangerous waste identification number? yes ☐ no ☒
If yes, what is the number? WAD

I) Tank Information:

Complete this table for ALL tanks, whether underground (UST) or aboveground (AST), including unregulated tanks.
(*Unleaded, leaded diesel, bunker-C, waste oil, heating oil, aviation fuel, other (identify))
(** Tank status: Left in Place, Removed, Closed in Place)

			Was Free Product encountered?			
Tank ID	AST/UST	Size	*Product	On GW	In Excavation	**Tank Status
None	UST	300 gal(est) (1)				
(1). The tank is probably a home heating oil tank. It has a liquid in it, which appears more dilute than oil. A soil sample below tank bottom level on the downhill side of the tank revealed no hydrocarbons present.						

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

Type (code) of Owner/Operator (for below):
Private (1) Municipal (2) County (3) Federal (4) State (5) Tribal (6) Mixed (7) Other (8) Unknown (9)
Public Entitle Acquisition via Bankruptcy (11)

NW Quarter (10 acres)

Former Site Owner: Andrew and Rhea Waslenko		Type: 1
Street Address: 800 10th Street NE		
City: East Wenatchee	State: WA	ZIP: 98802
Contact Persons (if different than owner, above):		
Street Address:		
City:	State:	ZIP:
Telephone Number:	Extension:	
Fax Number:	e-mail address:	
Dates of Ownership: unknown	to 1978	

SW and NE Quarters (10 acres each)

Former Site Owner: William G and Gwyn Stewart		Type: 1
Street Address: unavailable		
City:	State:	ZIP:
Contact Persons (if different than owner, above):		
Street Address:		
City:	State:	ZIP:
Telephone Number:	Extension:	
Fax Number:	e-mail address:	
Dates of Ownership: unknown	to 1989	

SE Quarter (6 acres)

Former Site Owner: Ralph M. Bendickson		Type: 1
Street Address: unavailable		
City:	State:	ZIP:
Contact Persons (if different than owner, above):		
Street Address:		
City:	State:	ZIP:
Telephone Number:	Extension:	
Fax Number:	e-mail address:	
Dates of Ownership: unknown	to 1989	

Full 36 Acres

Former Site Owner: Big K Orchards Company		Type: 1
Street Address: unavailable		
City:	State:	ZIP:
Contact Persons (if different than owner, above):		
Street Address:		
City:	State:	ZIP:
Telephone Number:	Extension:	
Fax 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)

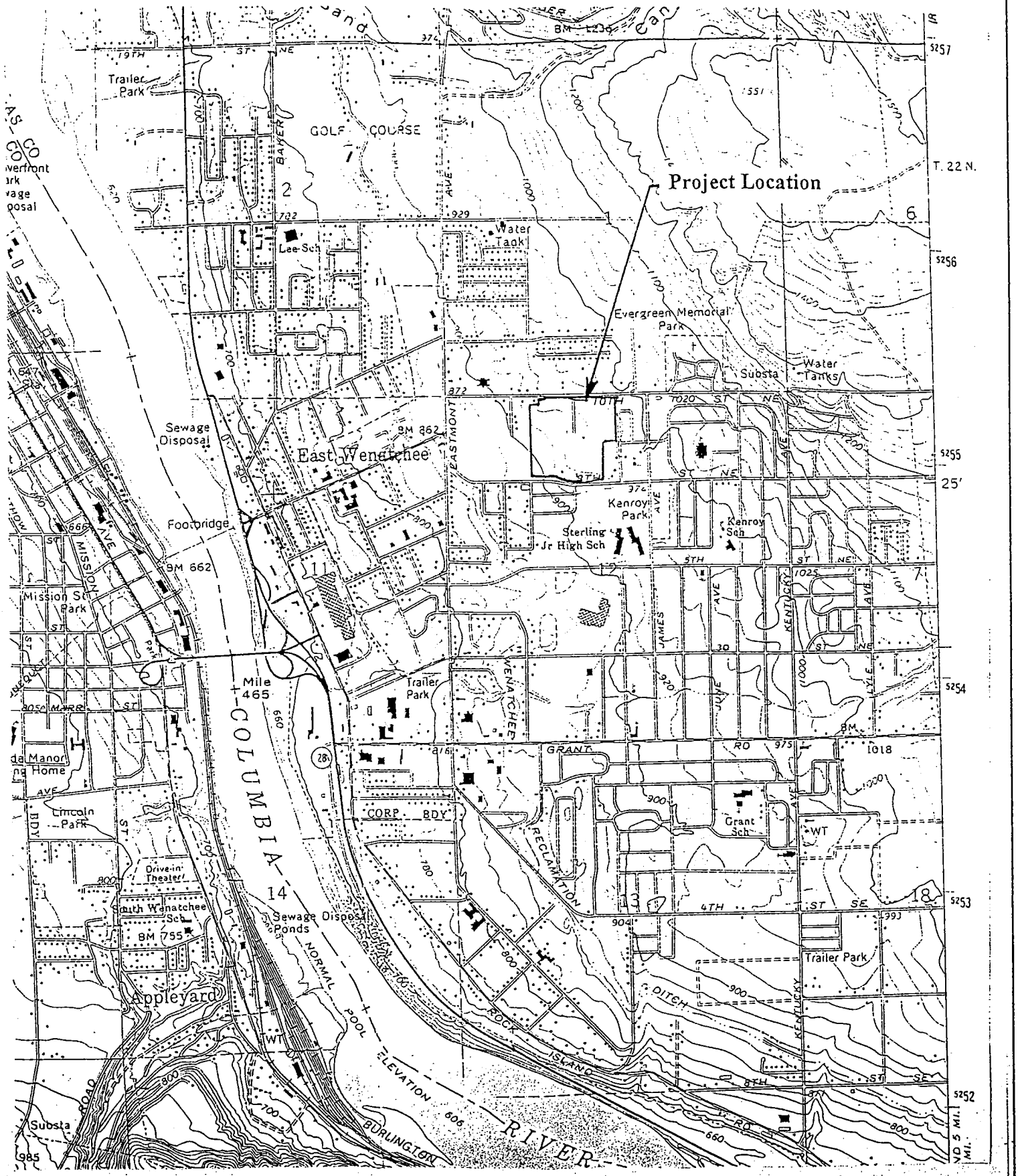
1) Environmental Consultant: David Nitchals, PE
Representing: Eastmont School District
Firm: Forsgren Associates, Inc.
Street Address: 112 Olds Station Road, Suite A
City: Wenatchee State: WA ZIP: 98801
Telephone Number: 509-667-1426 Extension: not applcable
Fax Number: 509-663-6166 e-mail address: dnitchals@forsgen.com

2) Site Control Person if other than Owner/Operator. (This must be a person who is on-site during normal working hours and is authorized and qualified to answer questions about the site, or a person who is available during normal business hours and has knowledge about the site and the remediations.

Name: NOT APPLICABLE
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:

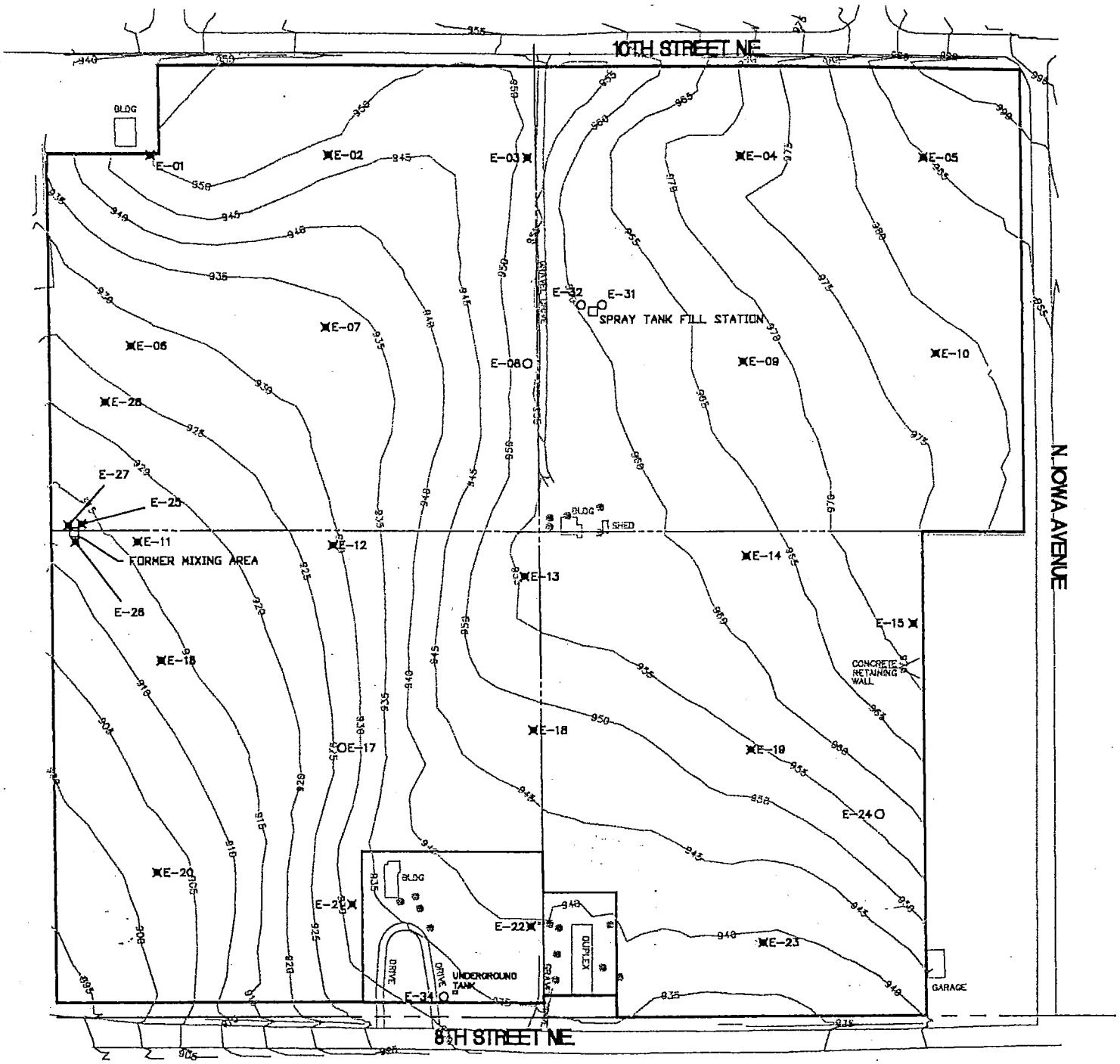
3) Name:
Relation to site/owner/operator:
Firm:
Street Address:
City: State: ZIP:
Telephone Number: Extension:
Fax Number: e-mail address:
Dates of involvement with site: to:

4) 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:



FORSGREN ASSOCIATES / INC.

DRAWN	SCALE		
	1"=2,000'	EASTMONT JR. HIGH SITE LOCATION MAP	Fig. 1
DATE	
5/17/01	800-106.008



LEGEND

⊠ SURVEYED LOCATION OF SAMPLING STATION

○ APPROXIAMTE LOCATION OF SAMPLING STATION

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

FORSGREN ASSOCIATES / INC.

DRAWN	SCALE	EASTMONT JR. HIGH SOIL SAMPLING MAP	Fig. 2
JW	1"=200'		
DATE 5/17/01	800-106.008		

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
E14-S03	1.5 feet bgs	4/19/2001	26.18	5.7
E14-S05	3.0 feet bgs	4/19/2001	<2.89	5.3
E15-S01	0.5 feet bgs	4/18/2001	212.8	470
E15-S03	1.5 feet bgs	4/18/2001	83.33	12.7
E15-S05	3.0 feet bgs	4/18/2001	<2.927	5.2
E15-S07	5.0 feet bgs	4/18/2001	<2.838	4.7

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
E16-S01	0.5 feet bgs	4/19/2001	not avail.	not avail.
E16-S03	1.5 feet bgs	4/19/2001	not avail.	not avail.
E16-S05	3.0 feet bgs	4/19/2001	77.70	153
E17-S01	0.5 feet bgs	4/19/2001	75.47	141
E17-S03	1.5 feet bgs	4/19/2001	73.26	8.5
E17-S05	3.0 feet bgs	4/19/2001	43.51	17.4
E18-S01	0.5 feet bgs	4/19/2001	115.6	744
E18-S03	1.5 feet bgs	4/19/2001	74.28	6.2
E18-S05	3.0 feet bgs	4/19/2001	31.08	11.0
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

*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.

PRELIMINARY COPY

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

Sample ID	Sample Depth*	Sample Date	8 RCRA Metals							
			As	Ba	Cd	Cr	Pb	Hg	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

PRELIMINARY COPY

Sample ID	Sample Depth*	Sample Date	DDD	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	<0.28	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	none
E14-S01	0.5	4/19/2001	2.8	45	42	0.5	<0.27	<0.33	none
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	<0.33	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
E32-S03	5.0	4/18/2001	<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	4/18/2001	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.

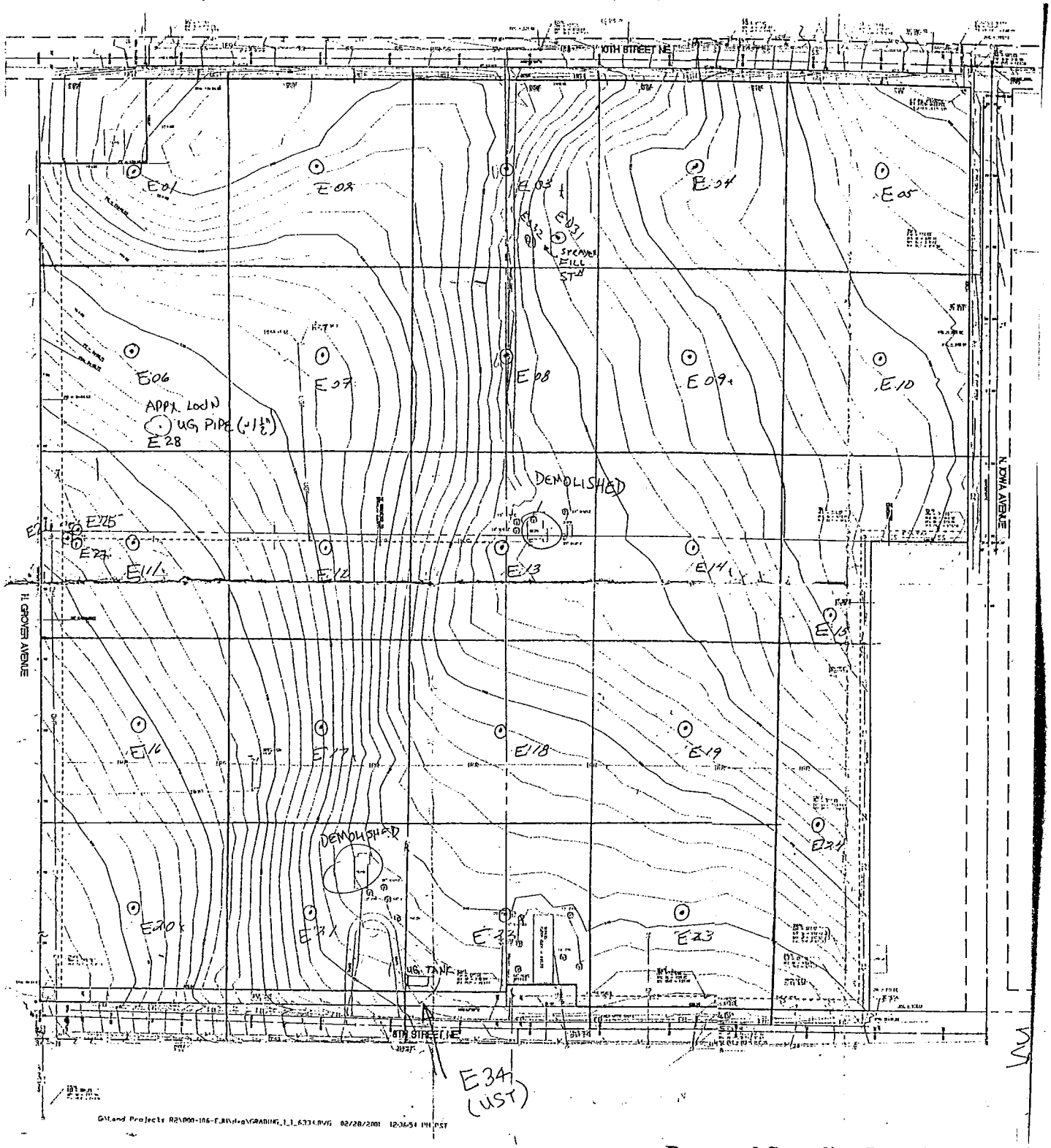
A sample label will be affixed to each sample container to identify and manage samples obtained in the field. Collected samples will be placed on ice, in a cooler, for delivery to the laboratory. Sample labels will include the project number, site name, sample identification number, sampler's initials,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



Proposed Sampling Locations

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
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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E01-S05	H	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	Type 1	
1.5	E02-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E02-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E03-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E03-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E03-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E03-S07	H	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	H	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	E05-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E05-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E05-S07	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E06-S07	H	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	H	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	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E09-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E09-S03	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E10-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E11-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E11-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E11-S05	H	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	H	Organochlorine Pesticides Arsenic- TCLP Lead -TCLP	8081A/3540C, 3550B	Type 1	
1.5	E12-S04		Arsenic	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	E12-S05	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E13-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E13-S05	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E14-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E15-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E15-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E15-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E15-S07	H	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 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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E17-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E17S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E17-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E18-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E18-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E18-S05	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E20-S03	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E20-S07	H	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	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E22-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E22-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E22-S07	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E23-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E23-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E23-S05	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E24-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E24-S07	H	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	H	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	H	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

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		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	Type 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 Junior High
Sample Identification List

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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E01-S05	H	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	Type 1	
1.5	E02-S03		Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E02-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E03-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E03-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E03-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E03-S07	H	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	H	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	E05-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E05-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E05-S07	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E06-S07	H	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	H	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	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E09-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E09-S03	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E10-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E11-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E11-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E11-S05	H	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	H	Organochlorine Pesticides Arsenic- TCLP Lead -TCLP	8081A/3540C, 3550B	Type 1	
1.5	E12-S04		Arsenic	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	E12-S05	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E13-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E13-S05	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E14-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E15-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E15-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E15-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E15-S07	H	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 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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E17-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E17S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E17-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E18-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E18-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E18-S05	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E20-S03	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E20-S07	H	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	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E22-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E22-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E22-S07	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
0.5	E23-S01	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
1.5	E23-S03	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E23-S05	H	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	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
3.0	E24-S05	H	Organochlorine Pesticides Arsenic Lead	8081A/3540C, 3550B 6020/3050B 6020/3050B	Type 1	
5.0	E24-S07	H	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	H	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	H	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

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		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	Type 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 Labs, Inc. / Cascade Analytical

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

Company Name: Forsgren Associates	Project Manager: Dave Nitchals
Address: 112 Olds Station Rd Suite A	Project Name & #: Eastmont 800.106.008
City: Wenatchee State: Wa Zip: 98801	Purchase Order #: 800.106.008
Phone: 509-667-1426	Sampler Signature: Brad Ziegler / Jim Caldwell
Fax: 509-663-6166	Shipped Via/Other: Cell # 916-837-2546

Turn Around Time & Reporting

☐ Next Day* ☐ 2nd Day* ☒ Normal

Results needed by: ☐ Phone ☐ Mail ☐ Fax

*Please call to verify rush charges before submitting samples

Provide Sample Description / **List Analyses Requested** / **Note Special Instructions/Comments**

Preservative: Cold →

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Organochlorine Pesticides 8081A	Arsenic Lead 6020	HOLD						
✓	E01-S01	4/18/01 1150	Soil	3	250		X	X			01-E3346			
✓	E01-S03	1153		1			X	X			3346			
✓	E01-S05	1158					X	X			3347			
✓	E02-S01	1026				X	X				3348			
✓	E02-S03	1030				X	X				3349			
✓	E02-S05	1035					X	X			3350			
✓	E03-S01	0956					X	X			3351			
✓	E03-S03	0958					X	X			3352			
✓	E03-S05	1005					X	X			3353			
✓	E03-S07	1007					X	X			3354			
✓	E04-S01	1052				X	X				3355			
✓	E04-S03	1054				X	X				3356			
✓	E04-S05	1055		↓	↓	✓X	X				3357			

Note Special Instructions/Comments:

E01-S01 = MS/MSD
Hold: Hold for possible 8081A analysis
8081A prep by 3540C, 3550B
6020 prep by 3050B

RECEIVED
APR 19 2001
By

	Printed Name	Signature	Company	Date	Time
Relinquished by	Brad Ziegler		FA	4/19/01	815
Received by	LORI WISHON		CAI	4-19-01	8:15
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact? YES NO
Labels & Chain Agree? YES NO
Containers Sealed? YES NO
Describe

Page ___ of ___

Anatek Labs, Inc.

Cascade Analytical

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246

504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

Company Name: Forsgren Associates	Project Manager:
Address:	Project Name & # :
City: State: Zip:	Purchase Order # :
Phone:	Sampler Signature:
Fax:	Shipped Via/Other:

Turn Around Time & Reporting

- [ ] Next Day*
- [ ] 2nd Day*
- [x] Normal

Results needed by: [ ] Phone [ ] Mail [ ] Fax

*Please call to verify rush charges before submitting samples

Provide Sample Description / **List Analyses Requested** / **Note Special Instructions/Comments**

Preservative: Cold

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Oxygenates 8021A	Arsenic Lead 6020	Organophosphorus Pesticides 8141	Chlorinated Herbicides 8151A	8RCRA Cold Metals	Hold				
✓	E05-S01	4/18/01 1310	Soil	1	250 mL		X				X	3358			
✓	E05-S03	1313					X				X	3359			
✓	E05-S05	1315					X				X	3360			
✓	E05-S07	1319					X				X	3361			
✓	E06-S01	1131				X		X	X	X		3362			
✓	E06-S03	1134				X		X	X	X		3363			
✓	E06-S05	1139					X				X	3364			
✓	E06-S07	1143					X				X	3365			
	E07-S01	0931				X	X					3366			
✓	E07-S03	0935					X				X	3367			
✓	E07-S05	0937					X				X	3368			
✓	E08-S01	0900					X				X	3369			
✓	E08-S03	0906					X				X	3370			

Hold= Hold for possible 8081A analysis

8081A, 8141, 8151A prep by 3540c, 3550B

6010 prep by 3050B

6020 prep by 3050B

RECEIVED APR 19 2001 1016

	Printed Name	Signature	Company	Date	Time
Relinquished by	Brad Ziegler	BZ	FA	4/19/01	815
Received by	LORI WISHON	L Wishon	CAI	4/19/01	815
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact? YES NO

Labels & Chain Agree? YES NO

Containers Sealed? YES NO

Describe

Page ___ of ___

Anatek Labs, Inc.

Cascade Analytical

Chain of Custody Record

1282 Alturas Drive, ~~Moscow ID 83843~~ (208) 883-2839 FAX 882-9246

504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

-3,

Company Name: Forsgren Associates	Project Manager:
Address:	Project Name & # :
City: State: Zip:	Purchase Order # :
Phone:	Sampler Signature:
Fax:	Shipped Via/Other:

Turn Around Time & Reporting

- [ ] Next Day*
- [ ] 2nd Day*
- [x] Normal

Results needed by: 4/19

- [ ] Phone
- [ ] Mail
- [ ] Fax

*Please call to verify rush charges before submitting samples

Provide Sample Description

List Analyses Requested

Note Special Instructions/Comments

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative: Cold	Organochlorine Pesticides 8081A	Arsenic Lead 6020	HOLD							
✓	E08-S05	4/18/01 0915	Soil	1	250 mL			X	X					3371		
✓	E09-S01	1048						X	X					3372		
✓	E09-S03	1052						X	X					3373		
✓	E09-S05	1055						X	X					3374		
✓	E10-S01	1107					X	X						3375		
✓	E10-S03	1114						X	X					3376		
✓	E10-S05	1117						X	X					3377		
✓	E15-S01	1328						X	X					3378		
✓	E15-S03	1341						X	X					3379		
✓	E15-S05	1344						X	X					3380		
✓	E15-S07	1348						X	X					3381		
✓	E19-S01	1451					X	X						3382		
✓	E19-S03	1456		↓	↓		X	X						3383		

Hold = hold for possible 8081A analysis

8081A prep by 3540C, 3550B

6020 prep by 3050B

RECEIVED
APR 19 2001
By

	Printed Name	Signature	Company	Date	Time
Relinquished by	Brad Ziegler		FA	4/19/01	815
Received by	Lori Wishon		CAI	4.19.01	815
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact? YES NO

Labels & Chain Agree? YES NO

Containers Sealed? YES NO

Describe

Anatek Labs, Inc. Analytical

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246

~~504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433~~

Anatek Log-In #

Company Name: Forsgren Associates

Address:

City: State: Zip:

Phone:

Fax:

Project Manager:

Project Name & # :

Purchase Order # :

Sampler Signature:

Shipped Via/Other:

Turn Around Time & Reporting

☐ Next Day* ☐ 2nd Day* ☒ ~~Normal~~

Results needed by: / /

☐ Phone ☐ Mail ☐ Fax

*Please call to verify rush charges before submitting samples

Provide Sample Description

List Analyses Requested

Note Special Instructions/Comments

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:	Organochlorine Pesticides 8081A	Arsenic Lead Cadmium	HOLD							
✓	E19-S05	4/18/01 1501	Soil	1	250 mL		X ✓	X ✓				3384				
✓	E20-S01	1600						X ✓	X			3385				
✓	E20-S03	1604						X ✓	X			3386				
✓	E20-S05	1608						X ✓	X			3387				
✓	E20-S07	1615						X ✓	X			3388				
✓	E23-S01	1430						X ✓	X			3389				
✓	E23-S03	1434						X ✓	X			3390				
✓	E23-S05	1440						X ✓	X			3391				
✓	E24-S01	1405					✓ X	X ✓				3392				
✓	E24-S03	1408						X ✓	X			3393				
✓	E24-S05	1411						X ✓	X			3394				
✓	E24-S07	1416						X ✓	X			3395				
	~~E27-S01~~															

Hold= Hold for possible 8081A analysis
8081A prep by 3540c, 3550B
6020 prep by 3050B

RECEIVED
APR 19 2001
By

	Printed Name	Signature	Company	Date	Time
Relinquished by	Brad Ziegler	BZ	FA	4/19/01	815
Received by	Lori WISHON	L. Wisho	CAT	4-19-01	815
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact? YES NO

Labels & Chain Agree? YES NO

Containers Sealed? YES NO

Describe

Anatek Labs, Inc. Analytical

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246

504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

Company Name: Forsgren Associates	Project Manager:
Address:	Project Name & #:
City: State: Zip:	Purchase Order #:
Phone:	Sampler Signature:
Fax:	Shipped Via/Other:

Turn Around Time & Reporting

- [ ] Next Day*
- [ ] 2nd Day*
- [x] Normal

Results needed by:

- [ ] Phone
- [ ] Mail
- [ ] Fax

*Please call to verify rush charges before submitting samples

Provide Sample Description / List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8141	Chlorinated Herbicides 8151A	Arsenic 6020 Lead	8021A Metals 6010	Hold	
✓	E27-S01	4/18/01 1520	Soil	1	250 mL		X	X	X		X		3396
✓	E27-S03	1525					X	X	X		X		3397
✓	E27-S07	1541								X		X	3398
✓	E31-S01	0823					X	X	X	X			3399
✓	E31-S03	0832					X	X	X	X			3400
✓	E32-S01	0843					X	X	X	X			3401
✓	E32-S03	0852					X			X			3402
		Per Dave Nikkels ADD/CB 4/19/01											
✓	E21-S01						X			X			3460
✓	E21-S03									X			3461
✓	E21 S05									X			3462

Note Special Instructions/Comments

E27-S01 + E27-S03 = 5 day TAT

Hold = hold for possible 8081A analysis

8081A, 8141, 8151A prep by 3540C, 3550B

6010, 6020 prep by 3050B

RECEIVED APR 19 2001 By

	Printed Name	Signature	Company	Date	Time
Relinquished by	Brad Ziegler		FA	4/19/01	815
Received by	LORI WISHON		CAF	4/19/01	815
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact? YES NO

Labels & Chain Agree? YES NO

Containers Sealed? YES NO

Describe

CASCADE ANALYTICAL, INC.

AGRICULTURAL &
ENVIRONMENTAL ANALYSIS

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

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

97642

Sub-Contract ORDER FORM

P.O. NO: 10151041901

PROJECT NAME	CONTRACT LAB
Forsgren & Associates / Eastmont	Sound Analytical
	ADDRESS 5755 8th St. East
	CITY, STATE, ZIP Tacoma, WA 98424
	TELEPHONE

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
Laura L Barnes (Printed)	4/19/01				
	TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
Sfray	4/20/01				
(Printed) Ray	TIME 1000am	(Printed)	TIME	(Printed)	TIME

1	SAMPLE I.D. OIE-03348	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
2	SAMPLE I.D. OIE-03349	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
3	SAMPLE I.D. OIE-03355	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
4	SAMPLE I.D. OIE-03356	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		

SPECIAL INSTRUCTIONS: Send Results & Billing to Cascade Analytical

Normal Turn Around Time on everything except Sil (Please Return Remaining)

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

CASCADE ANALYTICAL, INC.

AGRICULTURAL &
ENVIRONMENTAL ANALYSIS

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

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

97642

Sub-Contract ORDER FORM

P.O. NO: 1015104/901

PROJECT NAME	CONTRACT LAB
Foresgreen & Associates / Eastmont	Sound Analytical
	ADDRESS
	CITY, STATE, ZIP
	TELEPHONE

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME

			Sample Date	Sample Time
1	SAMPLE I.D.	01E-03357		
	ANALYSIS REQUESTED	8081A		
	COMMENT			
2	SAMPLE I.D.	01E-03360		
	ANALYSIS REQUESTED	8081A, 8141A, 8151A		
	COMMENT			
3	SAMPLE I.D.	01E-03363		
	ANALYSIS REQUESTED	8081A, 8141A, 8151A		
	COMMENT			
4	SAMPLE I.D.	01E-03366		
	ANALYSIS REQUESTED	8081A		
	COMMENT			

SPECIAL INSTRUCTIONS:

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

CASCADE ANALYTICAL, INC.

AGRICULTURAL &
ENVIRONMENTAL ANALYSIS

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

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

97642

Sub-Contract ORDER FORM

P.O. NO: 1015/04130/

PROJECT NAME	CONTRACT LAB
Foresglew & Associates / Easement	Sound Analytical
	ADDRESS
	CITY, STATE, ZIP
	TELEPHONE

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
Susan L Powers	4/19/01				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
Shay	4/20/01				
(Printed) Roy	TIME 1000 am	(Printed)	TIME	(Printed)	TIME

1	SAMPLE I.D. 01E-03375	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
2	SAMPLE I.D. 01E-03382	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
3	SAMPLE I.D. 01E-03383	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
4	SAMPLE I.D. 01E-03384	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		

SPECIAL INSTRUCTIONS:

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

CASCADE ANALYTICAL, INC.

AGRICULTURAL &
ENVIRONMENTAL ANALYSIS

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

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

97642

Sub-Contract ORDER FORM

P.O. NO: 10151041901

PROJECT NAME	CONTRACT LAB
Forsgren & Associates / Eastmont	Sound Analytical
	ADDRESS
	CITY, STATE, ZIP
	TELEPHONE

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
Tierra Forsgren	4/19/01				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
Shay	4/20/01				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
RN	1000am				

1	SAMPLE I.D. 01E - 03392	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
2	SAMPLE I.D. 01E - 03396	Sample Date 5 Day Turn	Sample Time
	ANALYSIS REQUESTED 8081A, 8141A, 8151A		
	COMMENT		
3	SAMPLE I.D. 01E - 03397	Sample Date 5 Day Turn	Sample Time
	ANALYSIS REQUESTED 8081A, 8141A, 8151A		
	COMMENT		
4	SAMPLE I.D. 01E - 03399	Sample Date	Sample Time
	ANALYSIS REQUESTED 8081A, 8141A, 8151A		
	COMMENT		

SPECIAL INSTRUCTIONS:

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

CASCADE ANALYTICAL, INC.

AGRICULTURAL &
ENVIRONMENTAL ANALYSIS

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

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

97642

Sub-Contract ORDER FORM

P.O. NO: 10151041901

PROJECT NAME	CONTRACT LAB
Foreglen & Associates / Eastlake	Sound Analytical
	ADDRESS
	CITY, STATE, ZIP
	TELEPHONE

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
Jerry Brown	4/19/01				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
Roy	4/20/01				
(Printed) Roy	TIME 1000am	(Printed)	TIME	(Printed)	TIME

		Sample Date	Sample Time
1	SAMPLE I.D. OIE - OE 3400		
	ANALYSIS REQUESTED 8081A, 8141A, 8151A		
	COMMENT		
2	SAMPLE I.D. OIE - 03401		
	ANALYSIS REQUESTED 8081A, 8141A, 8151A		
	COMMENT o		
3	SAMPLE I.D. OIE - 03402		
	ANALYSIS REQUESTED 8081A		
	COMMENT		
4	SAMPLE I.D. OIE - 03460		
	ANALYSIS REQUESTED 8081A		
	COMMENT		

SPECIAL INSTRUCTIONS:

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

Anatek Labs, Inc.

C Scan Analytical

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246

504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

Company Name: Forsgren Associates	Project Manager: Dave Nitchals
Address: 112 Olds Station Rd, Suite A	Project Name & #: Eastmont 800.106.008
City: Wenatchee State: WA Zip: 98801	Purchase Order #: 800.106.008
Phone: 509-667-1426	Sampler Signature:
Fax: 509-663-6166	Shipped Via/Other:

Turn Around Time & Reporting

☐ Next Day* ☐ 2nd Day* ☒ Normal — Results needed by: ☐ Phone ☐ Mail ☐ Fax

*Please call to verify rush charges before submitting samples

Provide Sample Description / **List Analyses Requested** / **Note Special Instructions/Comments**

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Organochlorine Pesticides 8081A	Arsenic Lead Cd	Arsenic/Lead TCLP	Hold							Note Special Instructions/Comments
Preservative:																
✓	E11-S01	4/19/01 1145	Soil	1	3.5 inch		X		X				01-E 3541			Hold= hold for possible 8081A analysis
✓	E11-S03	1148		1			X		X				3542			8081A prep by 3540C, 3550B
✓	E11-S05	1159		1			X		X				3543			6020 prep by 3050B
✓	E12-S01	1207						X	X				3544			
✓	E12-S02	1207					X						3545			
✓	E12-S03	1210						X	X				3546			
✓	E12-S04	1210					X						3547			
✓	E12-S05	1215						X	X				3548			
✓	E12-S06	1215					X						3549			
✓	E13-S01	1515					X		X				3550			
✓	E13-S03	1528					X		X				3551			
✓	E13-S05	1540					X		X				3552			
✓	E14-S01	1445		↓	↓	✓	X		~~HOLD~~				3553			

RECEIVED APR 2 11 2001 10

	Printed Name	Signature	Company	Date	Time
Relinquished by	Brad Ziegler	BZ	FA	4/20/01	1400
Received by	Judy Brown	Judy Brown	CAT	4/20/01	2:10
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact? YES NO

Labels & Chain Agree? YES NO

Containers Sealed? YES NO

Describe

Page ____ of ____

1/4

Cascade Analytical

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

Company Name: Forsgren Associates	Project Manager:
Address:	Project Name & # :
City: State: Zip:	Purchase Order # :
Phone:	Sampler Signature:
Fax:	Shipped Via/Other:

Turn Around Time & Reporting

- [ ] Next Day*
- [ ] 2nd Day*
- [x] Normal

Results needed by: _____

- [ ] Phone
- [ ] Mail
- [ ] Fax

*Please call to verify rush charges before submitting samples

Provide Sample Description

List Analyses Requested

Note Special Instructions/Comments

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:	Organochlorine Pesticides 8081A	Organic Lead 6020	HOLD							
✓	E14-S03	4/19/01 1450	SOIL	1	250 ml			X	X				3554			
✓	E14-S05	1457						X	X				3555			
	E14-S07	1503						X	X	— No Sample Received for 6020 prep by 3050B						
	E16-S01	1420					✓ X	X					3556			
	E16-S03	1425					✓ X	X					3557			
✓	E16-S05	1433						X	X				3558			
✓	E17-S01	1313						X	X				3559			
✓	E17-S03	1316						X	X				3560			
✓	E17-S05	1321						X	X				3561			
✓	E18-S01	1330						X	X				3562			
✓	E18-S03	1334						X	X				3563			
✓	E18-S05	1340						X	X				3564			
✓	FA041901	↓ —	↓	↓		↓	✓ X	X					3565			

HOLD = hold for poss. 5x 8081A analysis
8081A prep by 3540C, 3550B
6020 prep by 3050B

RECEIVED
APR 20 2001
By

	Printed Name	Signature	Company	Date	Time
Relinquished by	Brad Ziegler	BZ	F-A	4/20/01	1400
Received by	Jerry Parrow	Jerry Parrow	CAT	4/20/01	2:10
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact?	YES	NO
Labels & Chain Agree?	YES	NO
Containers Sealed?	YES	NO

Describe _____

Page _____ of _____

2/4

Cascade Analytical

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246

504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

Company Name: Forsgren Associates	Project Manager:
Address:	Project Name & #:
City: State: Zip:	Purchase Order #:
Phone:	Sampler Signature:
Fax:	Shipped Via/Other:

Turn Around Time & Reporting

☐ Next Day* ☐ 2nd Day* ☒ Normal

Results needed by: ☐ Phone ☐ Mail ☐ Fax

*Please call to verify rush charges before submitting samples

Provide Sample Description / **List Analyses Requested** / **Note Special Instructions/Comments**

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8141	Chlorinated Herbicides 8151A	BTEX 8021A	6010 Metals Arsenic Lead Cd Se	HOLD				
	~~E08-505 B~~															
✓	E22-501	4/19/01 1350	Soil	1	250 mL						✓x	x	3566			
✓	E22-503	1353									✓x	x	3567			
✓	E22-505	1357									✓x	x	3568			
✓	E22-507	1405									✓x	x	3569			
✓	E25-501	1047					✓x	✓x	✓x	✓x			3570			
✓	E25-503	1050					✓x	✓x	✓x	✓x			3571			
✓	E25-507	1101									✓x	x	3572			
✓	E26-501	1120					✓x				✓x		3573			
✓	E26-503	1123					✓x				✓x		3574			
	~~E26-507 B~~										✓x	x				
✓	E28-503	4/20/01 1030					✓x				✓x		3575			
✓	E28-507	4/20/01 1035		↓	↓		✓x				✓x		3576			

E25-501 + E25-503 = 5 day TAT

All other samples = normal TAT

8081A, 8141, 8151A prep by 3546c, 3535B

6010, 6020 prep by 3050 B

Hold = hold for possible 8081A analysis

Per Brad = Add 6020 & Hold ✓

E26-507 4/24/01 DA

RECEIVED APR 2 0 2001 By

	Printed Name	Signature	Company	Date	Time
Relinquished by	Brad Ziegler		EA	4/20/01	1600
Received by	Jerry Brown		CAT	4/20/01	2:10
Relinquished by					
Received by					
Relinquished by					
Received by					

Lab Use Only

Received Intact?	YES	NO
Labels & Chain Agree?	YES	NO
Containers Sealed?	YES	NO

Describe

Page ____ of ____

3/4

CASCADE ANALYTICAL, INC.

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

4/4

SAMPLE #	1	2	3	4
SEND RESULTS TO 1) Client 2) Billing 3) Both	1,1,1	X	X	X	
SAMPLE REPRESENTS 1) Food! 2) Water! 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	

CLIENT NAME/ADDRESS	BILLING NAME/ADDRESS
Foosgren Associates	
	RE: Eastmont
	PHONE NO.

SAMPLER'S NAME: Brad Ziegler

FORM MUST BE COMPLETED BEFORE ANALYSIS WILL BE PERFORMED.

RELINQUISHED BY: (Signature) 1	DATE	RELINQUISHED BY: (Signature) 2	DATE	RELINQUISHED BY: (Signature) 3	DATE
(Printed) Brad Ziegler	TIME 1400	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: (Signature)	DATE	RECEIVED BY: (Signature)	DATE	RECEIVED BY: (Signature)	DATE 4/20/01
(Printed)	TIME	(Printed) 10:66	TIME	(Printed)	TIME 2:10

1	SAMPLE I.D. E34	Sample Date 4/20/01	Sample Time 1140
	ANALYSIS REQUESTED EPA Method 8015 - TPH, HCID ✓		
	COMMENT NWTPH-HCID		
2	SAMPLE I.D. Equipment Blank	Sample Date 4/20/01	Sample Time 0830
	ANALYSIS REQUESTED Organochlorine Pesticides (8081A); Arsenic + Lead (6020)		
	COMMENT		
3	SAMPLE I.D. Field Blank	Sample Date 4/20/01	Sample Time 1300
	ANALYSIS REQUESTED Organochlorine Pesticides (8081A); Arsenic + Lead (6020) ✓		
	COMMENT		
4	SAMPLE I.D.	Sample Date	Sample Time
	ANALYSIS REQUESTED		
	COMMENT		

RECEIVED APR 20 2001 By

Sample container received by client was sealed Yes ____ No

Sample container received by laboratory was sealed Yes ____ No ____

Disclaimer:

Cascade Analytical, Inc., makes no warranty of any kind, expressed or implied, and customer assumes all risk and liability from the use of Cascades test results. Cascade neither assumes not authorizes any person to assume for Cascade any other liability in connection with the testing done by Cascade Analytical, Inc., and there are not other oral agreements or warranties collateral to or affecting this agreement.

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.

Customer Signature _____ Date 4/20/01

JL 97707

AGRICULTURAL &
ENVIRONMENTAL ANALYSIS

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

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

CASCADE ANALYTICAL, INC.

Sub-Contract ORDER FORM

P.O. NO: 101553/2301

PROJECT NAME: Forsgren & Associates	CONTRACT LAB: Sound Analytical
	ADDRESS: 5755 8th St. East
	CITY, STATE, ZIP: Tacoma, WA 98424
	TELEPHONE:

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
(Printed) Dwight Brown	4/23/01				
	TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature SLM	DATE 4-24-01	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
Printed) Roy	TIME 930AM	(Printed)	TIME	(Printed)	TIME

1	SAMPLE I.D. OIE 03538	Sample Date 4/2001	Sample Time
	ANALYSIS REQUESTED 8015 - TPH, HCID		
	COMMENT		
2	SAMPLE I.D. OIE 03539 - (8081A) liq	Sample Date 4-2001	Sample Time
	ANALYSIS REQUESTED		
	COMMENT		
3	SAMPLE I.D. OIE - 03540 - (8081A) liq	Sample Date 4-2001	Sample Time
	ANALYSIS REQUESTED		
	COMMENT		
4	SAMPLE I.D. OIE 03544	Sample Date 4/19/01	Sample Time
	ANALYSIS REQUESTED TCLP As, Pb		
	COMMENT		

SPECIAL INSTRUCTIONS: Send Results + Billing to Cascade Analytical

Normal TAT - the exception is

Last 3510, 3511 - 5-DAY TAT

WHITE - Submit with sample, YELLOW - Client Copy, PINK - Laboratory Copy Please Return All Remaining Soil.

97707

CASCADE ANALYTICAL, INC.

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: 1015544230 1

PROJECT NAME	Forsgren & Associates

CONTRACT LAB	Sound Analytical
ADDRESS	5755 8th St. East
CITY, STATE, ZIP	Tacoma, WA 98424
TELEPHONE	

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
Tina Brown	4/23/01				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
SRoy	4/24/01				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
Roy	930am				

1	SAMPLE I.D. 01E-3546	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED TCLP As, Pb		
	COMMENT		
2	SAMPLE I.D. 01E-3548	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED TCLP As, Pb		
	COMMENT		
3	SAMPLE I.D. 01E-3553	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
4	SAMPLE I.D. 01E-3556	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		

SPECIAL INSTRUCTIONS:

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

97707

CASCADE ANALYTICAL, INC.

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)1

PROJECT NAME Forsgren & Assoc	CONTRACT LAB Sound Analytical
	ADDRESS
	CITY, STATE, ZIP
	TELEPHONE

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
(Printed) Steve Rondan	4/23/01 TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
(Printed) Roy	4/24/01 TIME 9:30AM	(Printed)	TIME	(Printed)	TIME

1	SAMPLE I.D. 01E - 3557	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
2	SAMPLE I.D. 01E - 3565	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
3	SAMPLE I.D. 01E - 3570	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED 8081A, 8141, 8151A		
	COMMENT		
4	SAMPLE I.D.	Sample Date	Sample Time
	ANALYSIS REQUESTED 01E - 3571		
	COMMENT 8081A, 8141, 8151A	4-19-01	

SPECIAL INSTRUCTIONS:

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

97707

CASCADE ANALYTICAL, INC.

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: 1015642301

PROJECT NAME	CONTRACT LAB
Forsgren & Associates	Sound Analytical
	ADDRESS
	CITY, STATE, ZIP
	TELEPHONE

RELINQUISHED BY: Signature [1]	DATE	RELINQUISHED BY: Signature [2]	DATE	RELINQUISHED BY: Signature [3]	DATE
Joseph A Brown	4/23/01				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE	RECEIVED BY: Signature	DATE
SRoy	4/24/01				
(Printed)	TIME	(Printed)	TIME	(Printed)	TIME
Roy	930 AM				

1	SAMPLE I.D. OIE - 3573	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
2	SAMPLE I.D. OIE - 3574	Sample Date 4-19-01	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
3	SAMPLE I.D. OIE - 3575	Sample Date 4-20-01	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		
4	SAMPLE I.D. OIE - 3576	Sample Date 4-20-01	Sample Time
	ANALYSIS REQUESTED 8081A		
	COMMENT		

SPECIAL INSTRUCTIONS:

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

APPENDIX E
ANALYTICAL PROGRAM

E-1 LABORATORY ANALYSIS REPORTS

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003345
Sample Identification: E01-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Solid	71.1	mg/Kg	8.13	SW846 7060	4/26/01	
Lead Total Solids	149.	mg/Kg	2.3	SW846 6010	4/25/01	
Total Percent Solids	92.2	%	0.01 %	SM 2540-B	4/23/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003346
Sample Identification: E01-S03
Sample Comment: Eastmont 800.106.008

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

st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Solid	78.1	mg/Kg	8.37	SW846 7060	4/26/01	
ead Total Solids	18.8	mg/Kg	2.3	SW846 6010	4/25/01	
otal Percent Solids	89.6	%	0.01 %	SM 2540-B	4/23/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003347
Sample Identification: E01-S05
Sample Comment: Eastmont 800.106.008

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

st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
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	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003348
Sample Identification: E02-S01
Sample Comment: Eastmont 800.106.008

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

Test 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	
Total Percent Solids	88.4	%	0.01 %	SM 2540-B	4/23/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003349
Sample Identification: E02-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
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	89.0	%	0.01 %	SM 2540-B	4/23/01	
.otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003350
Sample Identification: E02-S05
Sample Comment: Eastmont 800.106.008

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

Test 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 Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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
Sample Identification: E03-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
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 Solids	88.5	%	0.01 %	SM 2540-B	4/23/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003352
Sample Identification: E03-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
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	
Total Percent Solids	89.1	%	0.01 %	SM 2540-B	4/23/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003353
Sample Identification: E03-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	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	
otal Percent Solids	89.6	%	0.01 %	SM 2540-B	4/23/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003354
Sample Identification: E03-S07
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic 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	
Total Percent Solids	90.0	%	0.01 %	SM 2540-B	4/23/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003355
Sample Identification: E04-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic Solid	144.	mg/Kg	16.9	SW846 7060	4/26/01	
Lead Total Solids	241.	mg/Kg	2.4	SW846 6010	4/25/01	
otal Percent Solids	88.7	%	0.01 %	SM 2540-B	4/23/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003356
Sample Identification: E04-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Solid	73.1	mg/Kg	8.58	SW846 7060	4/26/01	
Lead Total Solids	8.7	mg/Kg	2.4	SW846 6010	4/25/01	
Total Percent Solids	87.4	%	0.01 %	SM 2540-B	4/23/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003357
Sample Identification: E04-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Solid	4.01	mg/Kg	1.75	SW846 7060	4/26/01	
Lead Total Solids	7.2	mg/Kg	2.5	SW846 6010	4/25/01	
Total Percent Solids	85.6	%	0.01 %	SM 2540-B	4/23/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
Other Analysis	Analzyed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003358
Sample Identification: E05-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
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	83.1	%	0.01 %	SM 2540-B	4/23/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003359
Sample Identification: E05-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	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	
otal Percent Solids	86.3	%	0.01 %	SM 2540-B	4/23/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003360
Sample Identification: E05-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic Solid	3.75	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 Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003361
Sample Identification: E05-S07
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	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 2540-B	4/23/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003362
Sample Identification: E06-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Solid	55.4	mg/Kg	8	SW846 7060	4/26/01	
Barium Total Solid	79.4	mg/Kg	0.107	SW846 6010	4/25/01	
Cadmium Total Solid	< 0.32	mg/Kg	0.32	SW846 6010	4/25/01	
Chromium Total Solid	9.47	mg/Kg	0.24	SW846 6010	4/25/01	
Lead Total Solids	8.0	mg/Kg	2.2	SW846 6010	4/25/01	
Mercury Total Solid	< 0.016	mg/Kg	0.016	SW846 7471	4/25/01	
Selenium Total Solid	< 2.67	mg/Kg	2.67	SW846 7740	4/27/01	
Silver Total Solid	0.87	mg/Kg	0.13	SW846 6010	5/ 7/01	
Total Percent Solids	93.8	%	0.01 %	SM 2540-B	4/23/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
Other Analysis	Analzyed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003363
Sample Identification: E06-S03
Sample Comment: Eastmont 800.106.008

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

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	0.107	SW846 6010	4/25/01	
admium Total Solid	< 0.32	mg/Kg	0.32	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 Digest			SW846 3050	4/23/01	
ther Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003364
Sample Identification: E06-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic 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	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003365
Sample Identification: E06-S07
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic Solid	< 1.66	mg/Kg	1.66	SW846 7060	4/26/01	
Lead Total Solids	3.8	mg/Kg	2.3	SW846 6010	4/25/01	
Total Percent Solids	90.4	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003366
Sample Identification: E07-S01
Sample Comment: Eastmont 800.106.008

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

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 Solid	Metals Digest			SW846 3050	4/23/01	
ther Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
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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-E003367
Sample Identification: E07-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic Total Solid	83.52	mg/Kg	2.784	SW846 6010	4/27/01	
Lead Total Solids	5.8	mg/Kg	2.3	SW846 6010	4/27/01	
otal Percent Solids	89.8	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

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3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003368
Sample Identification: E07-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic Total Solid	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 Solids	87.9	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003369
Sample Identification: E08-S01
Sample Comment: Eastmont 800.106.008

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

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 Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

Batch: 101510
Client: Foragren 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-E003370
Sample Identification: E08-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic 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	
Total Percent Solids	86.2	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003371
Sample Identification: E08-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic Total Solid	47.94	mg/Kg	2.787	SW846 6010	4/27/01	
Lead Total Solids	82.3	mg/Kg	2.3	SW846 6010	4/27/01	
"otal Percent Solids	89.7	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
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1-800-545-4206

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-E003372
Sample Identification: E09-S01
Sample Comment: Eastmont 800.106.008

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

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	88.9	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003373
Sample Identification: E09-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
..rsenic Total Solid	5.230	mg/Kg	2.955	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 2540-B	4/24/01	
'otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003374
Sample Identification: E09-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	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 2540-B	4/24/01	
.otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003375
Sample Identification: E10-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	78.28	mg/Kg	2.709	SW846 6010	4/27/01	
Lead Total Solids	626.	mg/Kg	2.3	SW846 6010	4/27/01	
Total Percent Solids	92.3	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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
Sample Comment: Eastmont 800.106.008

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

Test 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 Digest			SW846 3050	4/25/01	

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CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003377
Sample Identification: E10-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	15.28	mg/Kg	2.812	SW846 6010	4/27/01	
Lead Total Solids	4.9	mg/Kg	2.4	SW846 6010	4/27/01	
otal Percent Solids	88.9	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

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CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003378
Sample Identification: E15-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	212.8	mg/Kg	2.904	SW846 6010	4/27/01	
Lead Total Solids	470.	mg/Kg	2.4	SW846 6010	4/27/01	
otal Percent Solids	86.1	%	0.01 %	SM 2540-B	4/24/01	
.otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003379
Sample Identification: E15-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	83.33	mg/Kg	2.987	SW846 6010	4/27/01	
Lead Total Solids	12.7	mg/Kg	2.5	SW846 6010	4/27/01	
Total Percent Solids	83.7	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

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CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003380
Sample Identification: E15-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	< 2.927	mg/Kg	2.927	SW846 6010	4/27/01	
Lead Total Solids	5.2	mg/Kg	2.5	SW846 6010	4/27/01	X7
otal Percent Solids	85.4	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003381
Sample Identification: E15-S07
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic Total Solid	< 2.838	mg/Kg	2.838	SW846 6010	4/27/01	
Lead Total Solids	4.7	mg/Kg	2.4	SW846 6010	4/27/01	
otal Percent Solids	88.1	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101510
Client: Forsgren Associates Inc
Account: 197
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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-E003382
Sample Identification: E19-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	69.28	mg/Kg	2.887	SW846 6010	4/27/01	
Lead Total Solids	9.6	mg/Kg	2.4	SW846 6010	4/27/01	
otal Percent Solids	86.6	%	0.01 %	SM 2540-B	4/24/01	
.otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
ther Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003383
Sample Identification: E19-S03
Sample Comment: Eastmont 800.106.008

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

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	

Approved By:

CASCADE ANALYTICAL, INC.

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Wenatchee, WA 98801

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003384
Sample Identification: E19-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic 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	
Total Percent Solids	90.2	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003385
Sample Identification: E20-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	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	
Total Percent Solids	93.1	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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-E003386
Sample Identification: E20-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
..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 Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003387
Sample Identification: E20-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
..rsenic Total Solid	47.18	mg/Kg	3.005	SW846 6010	4/27/01	
Lead Total Solids	4.6	mg/Kg	2.5	SW846 6010	4/27/01	
otal Percent Solids	83.2	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

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Wenatchee, WA 98801

(509) 662-1888

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1-800-545-4206

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-E003388
Sample Identification: E20-S07
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic 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	X7
otal Percent Solids	83.4	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

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Wenatchee, WA 98801

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Batch: 101510
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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-E003389
Sample Identification: E23-S01
Sample Comment: Eastmont 800.106.008

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

Test 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	2.4	SW846 6010	4/27/01	
Total Percent Solids	86.7	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

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Wenatchee, WA 98801
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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-E003390
Sample Identification: E23-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
rsenic 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 Digest			SW846 3050	4/25/01	

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Wenatchee, WA 98801
(509) 662-1888
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Batch: 101510
Client: Forsgren Associates Inc
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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-E003391
Sample Identification: E23-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
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	
Total Percent Solids	91.9	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

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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-E003392
Sample Identification: E24-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	405.3	mg/Kg	2.854	SW846 6010	4/27/01	
Lead Total Solids	1430	mg/Kg	2.4	SW846 6010	4/27/01	
otal Percent Solids	87.6	%	0.01 %	SM 2540-B	4/24/01	
.otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
ther Analysis	Analyzed by SAS				4/30/01	

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Wenatchee, WA 98801

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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-E003393
Sample Identification: E24-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	75.06	mg/Kg	2.921	SW846 6010	4/27/01	
Lead Total Solids	24.9	mg/Kg	2.5	SW846 6010	4/27/01	
Total Percent Solids	85.6	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

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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-E003394
Sample Identification: E24-S05
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	< 2.834	mg/Kg	2.834	SW846 6010	4/27/01	
Lead Total Solids	5.6	mg/Kg	2.4	SW846 6010	4/27/01	
Total Percent Solids	88.2	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

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Wenatchee, WA 98801

(509) 662-1888

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Batch: 101510
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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-E003395
Sample Identification: E24-S07
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
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	
otal Percent Solids	88.5	%	0.01 %	SM 2540-B	4/24/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003396
Sample Identification: E27-S01
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Solid	119.	mg/Kg	16.1	SW846 7060	4/26/01	X7a
Barium Total Solid	78.2	mg/Kg	0.107	SW846 6010	4/25/01	X7a
Cadmium Total Solid	< 0.32	mg/Kg	0.32	SW846 6010	4/25/01	
Chromium Total Solid	9.41	mg/Kg	0.24	SW846 6010	4/25/01	
Lead Total Solids	13.3	mg/Kg	2.3	SW846 6010	4/25/01	
Mercury Total Solid	< 0.0161	mg/Kg	0.0161	SW846 7471	4/25/01	
(enium Total Solid	< 2.68	mg/Kg	2.68	SW846 7740	4/27/01	
Silver Total Solid	0.92	mg/Kg	0.13	SW846 6010	5/ 7/01	
Total Percent Solids	93.3	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
Other Analysis	Analyzed by SAS				4/28/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003397
Sample Identification: E27-S03
Sample Comment: Eastmont 800.106.008

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

Test 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	
enium Total Solid	< 2.92	mg/Kg	2.92	SW846 7740	4/27/01	
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 Solid	Metals Digest			SW846 3050	4/23/01	
uther Analysis	Analyzed by SAS				4/28/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003398
Sample Identification: E27-S07
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	71.90	mg/Kg	2.765	SW846 6010	4/27/01	
Lead Total Solids	92.0	mg/Kg	2.3	SW846 6010	4/27/01	
Total Percent Solids	90.4	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003399
Sample Identification: E31-S01
Sample Comment: Eastmont 800.106.008

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

st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	35.27	mg/Kg	2.822	SW846 6010	4/27/01	
.ead Total Solids	6.0	mg/Kg	2.4	SW846 6010	4/27/01	
'otal Percent Solids	88.6	%	0.01 %	SM 2540-B	4/24/01	
'otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
ther Analysis	Analyzed by SAS				5/ 1/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003400
Sample Identification: E31-S03
Sample Comment: Eastmont 800.106.008

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

Test 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	
Total Percent Solids	90.4	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
Other Analysis	Analyzed by SAS				5/ 1/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(509) 662-1888
Fax: (509) 662-8183
1-800-545-4206

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

REPRINT

Laboratory Number: 01-E003401
Sample Identification: E32-S01
~~Sample Comment: Eastmont 800.106.008~~

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	19.16	mg/Kg	3.392	SW846 6010	4/27/01	
Lead Total Solids	6.7	mg/Kg	2.8	SW846 6010	4/27/01	X7
Total Percent Solids	73.7	%	0.01 %	SM 2540-B	4/24/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
Other Analysis	Analyzed by SAS				5/ 1/01	

Approved By:

Corrected sample ID

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101510
Client: Forsgren Associates Inc
Account: 197
Sampler: Dave Nitchels
PO Number: 800.106.008

--- Analytical Services Report ---

Report Date: 5/10/01

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

Laboratory Number: 01-E003402
Sample Identification: E32-S03
Sample Comment: Eastmont 800.106.008

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

st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	3.257	mg/Kg	2.714	SW846 6010	4/27/01	
ead Total Solids	13.7	mg/Kg	2.3	SW846 6010	4/27/01	
otal Percent Solids	92.1	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
ther Analysis	Analyzed by SAS				5/ 1/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003460
Sample Identification: E21-S01
Sample Comment: Eastmont 800.106.008

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

st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	121.1	mg/Kg	2.86	SW846 6010	4/27/01	
ead Total Solids	1030	mg/Kg	2.4	SW846 6010	4/27/01	
otal Percent Solids	87.4	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	
ther Analysis	Analyzed by SAS				4/28/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003461
Sample Identification: E21-S03
Sample Comment: Eastmont 800.106.008

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	69.52	mg/Kg	2.838	SW846 6010	4/27/01	
Lead Total Solids	23.3	mg/Kg	2.4	SW846 6010	4/27/01	
Total Percent Solids	88.1	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

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-E003462
Sample Identification: E21-S05
~~Sample Comment: Eastmont 800.106.008~~

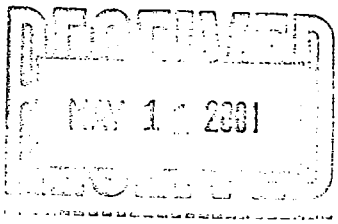
Date Received: 4/19/01
Date Sampled: 4/18/01

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

Approved By:

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

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

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

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03362 EQ6-SQ1
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

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

Sample results are on a dry weight basis.

Analyte	**Result (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	7.2	
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	
Bolstar	ND	6.9	2.4	
EPN	ND	10	4	
Azinphos,methyl	ND	6.9	2.7	
Coumaphos	ND	10	4.8	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03363 E06-S03
Lab ID:	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

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

Sample results are on a dry weight basis.

Analyte	**Result (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	4	
Azinphos,methyl	ND	6.9	2.7	
Coumaphos	ND	10	4.8	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03396 E27-S01
Lab ID:	97642-14
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/25/01
% Solids	93.13
Dilution Factor	10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	Result (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	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	11	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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03397 E27-503
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

Sample results are on a dry weight basis.

Analyte	Result (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	12	5.3	

SOUND ANALYTICAL SERVICES, INC.

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

E31-501

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Dichlorvos	ND	7.1	2.3	
Mevinphos	ND	7.1	2.7	
Demeton,O-S	ND	7.1	1.9	
Ethoprop	ND	11	4.3	
Naled	ND	21	7.3	
Sulfotepp	ND	7.1	1.9	
Monocrotophos	ND	7.1	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	7.1	2.6	
Malathion	ND	11	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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03400 E31-503
Lab ID:	97642-17
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

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

Sample results are on a dry weight basis.

Analyte	Result (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	11	4.2	
Azinphos,methyl	ND	7.2	2.8	
Coumaphos	ND	11	5	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03401 E32-501
Lab ID:	97642-18
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/25/01
% Solids	88.16
Dilution Factor	10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

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

Sample results are on a dry weight basis.

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	4.2	
Azinphos,methyl	ND	7.3	2.8	
Coumaphos	ND	11	5.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03362 E06-501
Lab ID:	97642-06
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/24/01
% Solids	93.67
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	**Result (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	2.2	
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03363 E06503
Lab ID:	97642-07
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/24/01
% Solids	93.79
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03396 E27-501
Lab ID:	97642-14
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/24/01
% Solids	93.13
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	Result (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	2.2	
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03397 E27-503
Lab ID:	97642-15
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/24/01
% Solids	84.9
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	Result (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	

SOUND ANALYTICAL SERVICES, INC.

E31-501

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

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	**Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03400 E31-503
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

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

Sample results are on a dry weight basis.

Analyte		Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03401 E32_S01
Lab ID:	97642-18
Date Received:	4/20/01
Date Prepared:	4/23/01
Date Analyzed:	4/24/01
% Solids	88.16
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03348
Lab ID:	97642-01 E02-501
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	89.68
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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	J C1
Chlordane (technical)	ND		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	0.2	
Methoxychlor	ND		11	0.92	
Endrin ketone	ND		2.2	0.36	
Toxaphene	ND		110	13	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03349
Lab ID:	97642-02 E02-503
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	95.93
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (ug/kg)	PQL	MDL	Flags
Aldrin	ND		1	0.1	
alpha-BHC	ND		1	0.15	
beta-BHC		4.1	1	0.24	C1
delta-BHC	ND		1	0.14	
gamma-BHC (Lindane)	ND		1	0.2	
Chlordane (technical)	ND		10	7.2	
4,4'-DDD	ND		2.1	0.12	
4,4'-DDE		13	2.1	0.15	C1
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	
Methoxychlor	ND		10	0.87	
Endrin ketone	ND		2.1	0.34	
Toxaphene	ND		100	12	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03355
Lab ID:	97642-03 E04-501
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	94.05
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte	Result (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	
Heptachlor epoxide	ND		0.99	0.18	
Methoxychlor	ND		9.9	0.82	
Endrin ketone	ND		2	0.32	
Toxaphene	ND		99	12	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03356 E04-503
Lab ID:	97642-04
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	88.94
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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		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	J C1
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	0.91	
Endrin ketone	ND		2.2	0.35	
Toxaphene	ND		110	13	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03357
Lab ID:	97642-05 E04-505
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

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Tetrachloro-m-xylene	85.4		49	134
Decachlorobiphenyl	42.4		41	145

Sample results are on a dry weight basis.

Analyte	Result (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	7.5	
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03362 EDB-501
Lab ID:	97642-06
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	93.67
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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		2.1	0.12	
4,4'-DDE		66	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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03363 E06-503
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

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

Sample results are on a dry weight basis.

Analyte	Result (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	J 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	0.88	
Endrin ketone	ND		2.1	0.34	
Toxaphene	ND		110	13	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03366
Lab ID:	97642-08 E07-501
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

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

Sample results are on a dry weight basis.

Analyte	Result (ug/kg)	PQL	MDL	Flags
Aldrin	ND	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	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	
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03375
Lab ID:	97642-09 E10-501
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

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

Sample results are on a dry weight basis.

Analyte		Result (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	J C1
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03382 E19-501
Lab ID:	97642-10
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	89.84
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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	J C2
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03383
Lab ID:	97642-11 E19-503
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

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

Sample results are on a dry weight basis.

Analyte		Result (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		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	

SOUND ANALYTICAL SERVICES, INC.

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

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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	0.14	
gamma-BHC (Lindane)	ND		1	0.19	
Chlordane (technical)	ND		10	7.1	
4,4'-DDD	ND		2	0.12	
4,4'-DDE		410	2	0.14	D C1
4,4'-DDT		620	2	0.18	D C1
Dieldrin	ND		2	0.25	
Endosulfan I	ND		1	0.15	
Endosulfan II		1.8	2	0.3	J C2
Endosulfan sulfate	ND		2	0.3	
Endrin	ND		2	0.32	
Endrin aldehyde	ND		2	0.37	
Heptachlor	ND		1	0.11	
Heptachlor epoxide	ND		1	0.18	
Methoxychlor	ND		10	0.85	
Endrin ketone	ND		2	0.33	
Toxaphene	ND		100	12	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03392 E24-501
Lab ID:	97642-13
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

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

Sample results are on a dry weight basis.

Analyte		Result (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	

SOUND ANALYTICAL SERVICES, INC.

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

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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	2.1	0.12	J C2
4,4'-DDE			28	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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03397 E27-503
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

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

Sample results are on a dry weight basis.

Analyte		Result (ug/kg)	PQL	MDL	Flags
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	J C1
4,4'-DDT		1.8	2.2	0.19	J C1
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03399 E 31-501
Lab ID:	97642-16
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	5/1/01
% Solids	89.78
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte	Result (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	5.2	2.2	0.15	C1
4,4'-DDT	28	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	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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03400 E 31-503
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

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

Sample results are on a dry weight basis.

Analyte		Result (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		20	2.2	0.15	C1
4,4'-DDT		160	2.2	0.19	C1
Dieldrin		20	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	
Methoxychlor	ND		11	0.91	
Endrin ketone	ND		2.2	0.35	
Toxaphene	ND		110	13	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03401
Lab ID:	97642-18 E32-501
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

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

Sample results are on a dry weight basis.

Analyte		Result (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		11	0.89	
Endrin ketone	ND		2.1	0.35	
Toxaphene	ND		110	13	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03402
Lab ID:	97642-19 E32-503
Date Received:	4/20/01
Date Prepared:	4/26/01
Date Analyzed:	5/1/01
% Solids	92.43
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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		26	2.2	0.15	C1
4,4'-DDT		18	2.2	0.19	C1
Dieldrin		2	2.2	0.26	J C1
Endosulfan I	ND		1.1	0.16	
Endosulfan II		1.1	2.2	0.32	J C1
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-03460
Lab ID:	97642-20
Date Received:	4/20/01 E21-501
Date Prepared:	4/26/01
Date Analyzed:	4/28/01
% Solids	93.99
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte	Result (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	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	11	0.88	
Endrin ketone	ND	2.1	0.34	
Toxaphene	ND	110	13	

SOUND ANALYTICAL SERVICES, INC.

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

			Recovery 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.

Analyte	Result (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	3.9	
Azinphos,methyl	ND	6.7	2.6	
Coumaphos	ND	10	4.6	

SOUND ANALYTICAL SERVICES, INC.

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

Parameter Name	Blank Result (ug/kg)	Spike Amount (ug/kg)	BS Result (ug/kg)	BS % Rec.	Flag
Diazinon	0	670	565	85	
Malathion	0	670	589	88	
Chlorpyrifos	0	670	713	107	
Azinphos,methyl	0	670	489	73	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID:	SNAKE LAKE INLET
Lab ID:	97634-01
Date Prepared:	4/23/01
Date Analyzed:	4/24/01
QC Batch ID:	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	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - HS0063
Date Received:	-
Date Prepared:	4/23/01
Date Analyzed:	4/24/01
% Solids	
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

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

Sample results are on an as received basis.

Analyte	Result (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	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	

SOUND ANALYTICAL SERVICES, INC.

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

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID:	01E-03362
Lab ID:	97642-06
Date Prepared:	4/23/01
Date Analyzed:	4/24/01
QC Batch ID:	HS0063

Chlorinated Herbicides by USEPA Method 8151 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
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	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - PE1372
Date Received:	-
Date Prepared:	4/26/01
Date Analyzed:	4/27/01
% Solids	
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on an as received basis.

Analyte	Result (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	2	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	
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	100	12	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

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

Organochlorine Pesticides by USEPA Method 8081A

Compound Name	Blank Result (ug/kg)	Spike Amount (ug/kg)	BS Result (ug/kg)	BS % Rec.	BSD Result (ug/kg)	BSD % 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:	01E-03460
Lab ID:	97642-20
Date Prepared:	4/26/01
Date Analyzed:	4/28/01
QC Batch ID:	PE1372

Organochlorine Pesticides by USEPA Method 8081A

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

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 re-analyzed 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.

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 Assurance Report

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

Batch number 101553

-- Blank Analysis --

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

Approved by _____

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: 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

-- Blank Analysis --

Analyte	Units	Blank Results	Date Analyzed
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
Cr 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
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
Ag Total	ug/l	< 125	5/ 7/01

Approved by _____

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 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 %

Analyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery	
As Total	01-E003597	5/ 3/01	ug/L	< 3	25.0	26.6	106	
As Total	01-E003597	5/ 3/01	ug/L	< 3	25.0	26.6	106	
Pb Total	01-E003044	4/27/01	ug/l	< 0.5	5.0	4.7	94	
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	4.5	90	
Pb Total	01-E003597	4/27/01	ug/l	0.7	5.0	5.4	94	
Pb Total	01-E003597	4/27/01	ug/l	0.7	5.0	5.5	96	
*As Total	01-E003396	4/26/01	ug/L	111000	25000	141000	120	
*As Total	01-E003396	4/26/01	ug/L	111000	25000	138000	108	
As Total	01-E003357	4/26/01	ug/L	3430	25000	26900	94	
As Total	01-E003357	4/26/01	ug/L	3430	25000	27500	96	
As Total	01-E003361	4/26/01	ug/L	2660	25000	27000	97	
As Total	01-E003361	4/26/01	ug/L	2660	25000	27100	98	
As Total	01-E003597	5/ 3/01	ug/L	< 3	25.0	26.6	106	
As Total	01-E003597	5/ 3/01	ug/L	< 3	25.0	26.6	106	
As Total	01-E003368	4/27/01	ug/L	5500.	25000	27250	87	
As Total	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	
As Total	01-E003545	4/27/01	ug/L	67750	25000	90000	89	
As Total	01-E003563	5/ 3/01	ug/L	62250	25000	82000	79	
As Total	01-E003563	5/ 3/01	ug/L	62250	25000	82250	80	
As Total	01-E003573	5/ 3/01	ug/L	2575.	25000	23880	85	
As Total	01-E003573	5/ 3/01	ug/L	2575.	25000	24400	87	
Ba Total	01-E003396	4/25/01	ug/l	73000	10000	86200	132	X7a
**Ba Total	01-E003396	4/25/01	ug/l	73000	10000	95800	228	X7a

Approved by _____

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: 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	
Cd Total	01-E003396	4/25/01	ug/l	< 300	10000	8050	80	
Cd Total	01-E003396	4/25/01	ug/l	< 300	10000	8200	82	
Cr Total	01-E003396	4/25/01	ug/l	8780	10000	17200	84	
Cr Total	01-E003396	4/25/01	ug/l	8780	10000	17400	86	
Pb Total	01-E003044	4/27/01	ug/l	< 0.5	5.0	4.7	94	
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	4.5	90	
Pb Total	01-E003597	4/27/01	ug/l	0.7	5.0	5.4	94	
Pb Total	01-E003597	4/27/01	ug/l	0.7	5.0	5.5	96	
Pb Total	01-E003396	4/25/01	ug/l	12400	25000	34500	88	
Pb Total	01-E003396	4/25/01	ug/l	12400	25000	33000	82	
Pb Total	01-E003357	4/25/01	ug/l	6200	25000	25000	75	
Pb Total	01-E003357	4/25/01	ug/l	6200	25000	26000	79	
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	22300	69	X7
Pb Total	01-E003545	4/27/01	ug/l	11400	25000	29800	74	X7
Pb Total	01-E003545	4/27/01	ug/l	11400	25000	30000	74	X7
Pb Total	01-E003563	5/ 3/01	ug/l	5180	25000	25200	80	
Pb Total	01-E003563	5/ 3/01	ug/l	5180	25000	24900	79	
Pb Total	01-E003573	5/ 3/01	ug/l	5480	25000	24900	78	
Pb Total	01-E003573	5/ 3/01	ug/l	5480	25000	24700	77	
Hg Total	01-E003396	4/25/01	ug/Kg	< 15	200.0	205.6	103	
Hg Total	01-E003396	4/25/01	ug/Kg	< 15	200.0	196.8	98	

Approved by _____

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 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

Analyte	Date Analyzed	Units	Original Spk. Result	Duplicate Spk. Results	% RPD
As Total	5/ 3/01	ug/L	26.6	26.6	0.00
Pb Total	4/27/01	ug/l	4.7	4.7	0.00
Pb Total	4/27/01	ug/l	4.6	4.5	-2.20
Pb Total	4/27/01	ug/l	5.4	5.5	1.83
s Total	4/26/01	ug/L	141000	138000	-2.15
As Total	4/26/01	ug/L	26900	27500	2.21
As Total	4/26/01	ug/L	27000	27100	0.37
As Total	5/ 3/01	ug/L	26.6	26.6	0.00
As Total	4/27/01	ug/L	27250	26750	-1.85
As 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
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
Ba Total	4/25/01	ug/l	108000	108000	0.00
Cd Total	4/25/01	ug/l	8050	8200	1.85
Cd Total	4/25/01	ug/l	7780	7780	0.00
Cr Total	4/25/01	ug/l	17200	17400	1.16
Cr Total	4/25/01	ug/l	17700	17800	0.56
Pb Total	4/27/01	ug/l	4.7	4.7	0.00
Pb Total	4/27/01	ug/l	4.6	4.5	-2.20
Pb Total	4/27/01	ug/l	5.4	5.5	1.83

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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: 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. Results	% RPD
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/l	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
Pb Total	4/27/01	ug/l	29800	30000	0.67
Pb Total	5/ 3/01	ug/l	25200	24900	-1.20
Pb Total	5/ 3/01	ug/l	24900	24700	-0.81
Hg Total	4/25/01	ug/Kg	205.6	196.8	-4.37
Se Total	4/27/01	ug/l	23000	25000	8.33
Ag Total	5/ 7/01	ug/l	3520	3480	-1.14

pproved by _____

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 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
Pb Total	Known	ug/l	10.2	10.0	102	4/27/01
Pb 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	100	4/27/01
Pb Total	Known	ug/l	10.5	10.0	105	4/27/01
Pb Total	Known	ug/l	10.4	10.0	104	4/27/01
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
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	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

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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: 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

-- Matrix Spike Duplicate Results --

Acceptable Limits = 20 % RPD

Analyte	Date Analyzed	Units	Original Spk. Result	Duplicate Spk. Results	% RPD
As Total	4/26/01	ug/L	141000	138000	-2.15
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
As 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/l	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
Pb Total	4/27/01	ug/l	29800	30000	0.67
Hg Total	4/25/01	ug/Kg	205.6	196.8	-4.37
Se Total	4/27/01	ug/l	23000	25000	8.33
Ag Total	5/ 7/01	ug/l	3520	3480	-1.14

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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: 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
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	known	ug/L	1970.	2000.	98	4/27/01
As 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
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
Ba Total	LFB	ug/l	9250	10000	92	5/ 4/01
Ba Total	known	ug/l	2060	2000	103	5/ 4/01

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1-800-545-4206

Account: 197
Sampler: Dave Nitchels
Date Sampled: 4/18/01
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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 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Cd Total	LFB	ug/l	9020	10000	90	4/25/01
Cd Total	known	ug/l	2070	2000	104	4/25/01
Cd Total	LFB	ug/l	9450	10000	94	4/25/01
Cd Total	known	ug/l	2090	2000	104	4/25/01
Cd Total	LFB	ug/l	9020	10000	90	5/ 4/01
Cd Total	known	ug/l	2070	2000	104	5/ 4/01
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
Cr Total	LFB	ug/l	8650	10000	86	5/ 4/01
Cr Total	known	ug/l	1890	2000	94	5/ 4/01
Pb Total	known	ug/l	2060	2000	103	4/25/01
Pb Total	LFB	ug/l	24300	25000	97	4/25/01
Pb Total	known	ug/l	2230	2000	112	4/25/01
Pb Total	LFB	ug/l	24800	25000	99	4/25/01
Pb Total	known	ug/l	2200	2000	110	4/25/01
Pb Total	LFB	ug/l	26000	25000	104	4/25/01
Pb Total	Known	ug/l	2230	2000	112	4/25/01
Pb Total	known	ug/l	2180	2000	109	4/27/01
Pb Total	LFB	ug/l	24600	25000	98	4/27/01
Pb Total	known	ug/l	2160	2000	108	4/27/01
Pb Total	known	ug/l	1860	2000	93	4/27/01
Pb Total	LFB	ug/l	21400	25000	86	4/27/01
Pb Total	known	ug/l	1850	2000	92	4/27/01
Pb Total	LFB	ug/l	23300	25000	93	4/27/01
Pb Total	known	ug/l	1870	2000	94	4/27/01
Pb Total	LFB	ug/l	21500	25000	86	4/27/01
Pb Total	Known	ug/l	1910	2000	96	4/27/01
Pb Total	known	ug/l	1920	2000	96	4/27/01
Pb Total	LFB	ug/l	21900	25000	88	4/27/01
Pb Total	Known	ug/l	1920	2000	96	4/27/01

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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

Batch number 101510

-- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Hg Total	Known	ug/Kg	1450.	1470.	99	4/25/01
Hg Total	Known	ug/Kg	4.599	5.000	92	4/25/01
Hg Total	LFB	ug/Kg	190.2	200.0	95	4/25/01
Hg Total	Known	ug/Kg	4.599	5.000	92	4/25/01
Hg Total	Known	ug/Kg	1694.	1470.	115	4/27/01
Hg Total	Known	ug/Kg	5.136	5.000	103	4/27/01
Hg Total	Known	ug/Kg	4.946	5.000	99	4/27/01
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/l	22700	25000	91	4/27/01
Se Total	Known	ug/l	48.0	50.0	96	4/27/01
Se 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

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Account: 197
Sampler: Dave Nitchels
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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 %

Analyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery	
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 Total	01-E003545	4/27/01	ug/l	11400	25000	30000	74	X7
Hg Total	01-E003396	4/25/01	ug/Kg	< 15	200.0	205.6	103	
Hg Total	01-E003396	4/25/01	ug/Kg	< 15	200.0	196.8	98	
Se Total	01-E003396	4/27/01	ug/l	< 2500	25000	23000	92	
Se Total	01-E003396	4/27/01	ug/l	< 2500	25000	25000	100	
Ag Total	01-E003396	5/ 7/01	ug/l	858.	2500	3520	106	
Ag Total	01-E003396	5/ 7/01	ug/l	858.	2500	3480	105	

** Original amount is > 4 times spike amount.

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CASCADE ANALYTICAL, INC.

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1-800-545-4206

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Date Sampled: 4/18/01
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-- Quality Assurance Report --

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

atch number 101510

-- Spike Results --

Acceptable Limits = 75 - 125 %

Analyte	Sample ID	Date Analyzed	Units	Original Result	Spike Amount	Amount Found	Percent Recovery	
*As Total	01-E003396	4/26/01	ug/L	111000	25000	141000	120	
*As Total	01-E003396	4/26/01	ug/L	111000	25000	138000	108	
As Total	01-E003357	4/26/01	ug/L	3430	25000	26900	94	
As Total	01-E003357	4/26/01	ug/L	3430	25000	27500	96	
As Total	01-E003361	4/26/01	ug/L	2660	25000	27000	97	
As Total	01-E003361	4/26/01	ug/L	2660	25000	27100	98	
As Total	01-E003368	4/27/01	ug/L	5500.	25000	27250	87	
As Total	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	
As Total	01-E003545	4/27/01	ug/L	67750	25000	90000	89	
**Ba Total	01-E003396	4/25/01	ug/l	73000	10000	86200	132	X7a
*Ba Total	01-E003396	4/25/01	ug/l	73000	10000	95800	228	X7a
Cd Total	01-E003396	4/25/01	ug/l	< 300	10000	8050	80	
Cd Total	01-E003396	4/25/01	ug/l	< 300	10000	8200	82	
Cr Total	01-E003396	4/25/01	ug/l	8780	10000	17200	84	
Cr Total	01-E003396	4/25/01	ug/l	8780	10000	17400	86	
Pb Total	01-E003396	4/25/01	ug/l	12400	25000	34500	88	
Pb Total	01-E003396	4/25/01	ug/l	12400	25000	33000	82	
Pb Total	01-E003357	4/25/01	ug/l	6200	25000	25000	75	
Pb Total	01-E003357	4/25/01	ug/l	6200	25000	26000	79	
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	

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1-800-545-4206

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-- Quality Assurance Report --

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

atch number 101510

-- Duplicate Analysis --

Acceptable Limit = 20 % RPD

Analyte	Sample ID	Units	Original Result	Duplicate Result	% RPD
TS	01-E003352	%	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
TS	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

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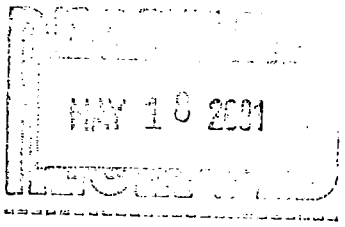
Report Date: 5/15/01

-- Quality Assurance Report --

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



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	01-E003396	4/27/01	ug/l	< 2500	25000	23000	92
Se Total	01-E003396	4/27/01	ug/l	< 2500	25000	25000	100
Ag Total	01-E003396	5/ 7/01	ug/l	858.	2500	3520	106
Ag Total	01-E003396	5/ 7/01	ug/l	858.	2500	3480	105

** Original amount is > 4 times spike amount.

Approved by _____

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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

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
Cd Total	ug/l	< 300	4/25/01
Cr Total	ug/l	< 225	4/25/01
Pb Total	ug/l	< 2100	4/25/01
Pb 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/ 7/01

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-- 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
TS	01-E003591	%	10.2	10.2	0.00

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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
As 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	97	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	4/25/01
Cd Total	LFB	ug/l	9450	10000	94	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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-- 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
Pb Total	Known	ug/l	10.2	10.0	102	4/27/01
Pb 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	100	4/27/01
Pb Total	Known	ug/l	10.5	10.0	105	4/27/01
Pb Total	Known	ug/l	10.4	10.0	104	4/27/01

pproved by

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: 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

-- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Analyte	Known ID	Units	Result	Target Value	Percent Recovery	Date Analyzed
Pb Total	known	ug/l	2060	2000	103	4/25/01
Pb Total	LFB	ug/l	24300	25000	97	4/25/01
Pb Total	known	ug/l	2230	2000	112	4/25/01
Pb Total	LFB	ug/l	24800	25000	99	4/25/01
Pb Total	known	ug/l	2200	2000	110	4/25/01
Pb Total	LFB	ug/l	26000	25000	104	4/25/01
Pb Total	Known	ug/l	2230	2000	112	4/25/01
Pb Total	known	ug/l	2180	2000	109	4/27/01
Pb Total	LFB	ug/l	24600	25000	98	4/27/01
Pb Total	known	ug/l	2160	2000	108	4/27/01
Pb Total	known	ug/l	1860	2000	93	4/27/01
Pb Total	LFB	ug/l	21400	25000	86	4/27/01
Pb Total	known	ug/l	1850	2000	92	4/27/01
Pb Total	LFB	ug/l	23300	25000	93	4/27/01
Pb Total	known	ug/l	1870	2000	94	4/27/01
Pb Total	LFB	ug/l	21500	25000	86	4/27/01
Pb Total	Known	ug/l	1910	2000	96	4/27/01
Pb Total	known	ug/l	1920	2000	96	4/27/01
Pb Total	LFB	ug/l	21900	25000	88	4/27/01
Pb Total	Known	ug/l	1920	2000	96	4/27/01
Pb Total	known	ug/l	2270	2000	114	5/ 3/01
Pb Total	lfb	ug/l	23800	25000	95	5/ 3/01
Pb Total	known	ug/l	2170	2000	108	5/ 3/01
Pb Total	LFB	ug/l	23300	25000	93	5/ 3/01
Pb Total	known	ug/l	2190	2000	110	5/ 3/01
Hg Total	Known	ug/Kg	1450.	1470.	99	4/25/01
Hg Total	Known	ug/Kg	4.599	5.000	92	4/25/01
Hg Total	LFB	ug/Kg	190.2	200.0	95	4/25/01
Hg Total	Known	ug/Kg	4.599	5.000	92	4/25/01

Approved by _____

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

atch number 101554

-- Check Standard Analysis --

Acceptable Limits = 85 - 115 %

Analyte	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/l	22700	25000	91	4/27/01
Se Total	Known	ug/l	48.0	50.0	96	4/27/01
Se 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

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CASCADE ANALYTICAL, INC.

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

(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: 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
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
Arsenic Total Solid	104.1	mg/Kg	2.691	SW846 6010	4/27/01	
Lead Total Solids	58.3	mg/Kg	2.3	SW846 6010	4/27/01	
Total Percent Solids	92.9	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

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Wenatchee, WA 98801

(509) 662-1888

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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: 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
Sample Comment: Eastmont 800.106.008

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

st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	66.83	mg/Kg	2.796	SW846 6010	4/27/01	
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	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 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
Sample Comment: Eastmont 800.106.008

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

st Requested	Results	Units	MDL	Method	Date Analyzed	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	%	0.01 %	SM 2540-B	4/26/01	
iotal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003544
Sample Identification: E12-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
TCLP Extract	4/24/01					
Arsenic	0.62	mg/L	0.20	3113B/3120B	5/ 1/01	
Lead	< 0.1	mg/L	0.10	SM3120	5/ 1/01	

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CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003545
Sample Identification: E12-S02
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
Arsenic Total Solid	74.86	mg/Kg	2.762	SW846 6010	4/27/01	
Lead Total Solids	12.6	mg/Kg	2.3	SW846 6010	4/27/01	X7
Total Percent Solids	90.5	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(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: 5/10/01

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

Laboratory Number: 01-E003546
Sample Identification: E12-S03
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
TCLP Extract	4/24/01					
Arsenic	0.58	mg/L	0.20	3113B/3120B		
Lead	< 0.1	mg/L	0.10	SM3120		

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CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003547
Sample Identification: E12-S04
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 Total Solid	69.56	mg/Kg	2.851	SW846 6010	4/27/01	
Lead Total Solids	5.4	mg/Kg	2.4	SW846 6010	4/27/01	
otal Percent Solids	87.7	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 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
Sample Comment: Eastmont 800.106.008

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

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

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003549
Sample Identification: E12-S06
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
Arsenic Total Solid	18.67	mg/Kg	2.809	SW846 6010	4/27/01	
Lead Total Solids	4.1	mg/Kg	2.4	SW846 6010	4/27/01	
Total Percent Solids	89.0	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 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
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
Arsenic Total Solid	85.04	mg/Kg	2.691	SW846 6010	4/27/01	
Lead Total Solids	50.4	mg/Kg	2.3	SW846 6010	4/27/01	
Total Percent Solids	92.9	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003551
Sample Identification: E13-S03
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
Arsenic Total Solid	51.27	mg/Kg	2.643	SW846 6010	4/27/01	
Lead Total Solids	115.	mg/Kg	2.2	SW846 6010	4/27/01	
Total Percent Solids	94.6	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003552
Sample Identification: E13-S05
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
Arsenic Total Solid	75.75	mg/Kg	2.677	SW846 6010	4/27/01	
Lead Total Solids	343.	mg/Kg	2.2	SW846 6010	4/27/01	
Total Percent Solids	93.4	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

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Wenatchee, WA 98801

(509) 662-1888

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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: 5/10/01

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

Laboratory Number: 01-E003553
Sample Identification: E14-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
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 Digest			SW846 3050	4/25/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

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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: 5/10/01

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

Laboratory Number: 01-E003554
Sample Identification: E14-S03
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
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	
Total Percent Solids	86.7	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

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Wenatchee, WA 98801

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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: 5/10/01

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

Laboratory Number: 01-E003555
Sample Identification: E14-S05
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
Arsenic Total Solid	< 2.89	mg/Kg	2.89	SW846 6010	4/27/01	
Lead Total Solids	5.3	mg/Kg	2.4	SW846 6010	4/27/01	
Total Percent Solids	86.5	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/25/01	

Approved By:

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Wenatchee, WA 98801

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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: 5/10/01

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
uther Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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Wenatchee, WA 98801

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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: 5/10/01

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

Laboratory Number: 01-E003557
Sample Identification: E16-S03
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
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
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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: 5/10/01

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

Laboratory Number: 01-E003558
Sample Identification: E16-S05
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 Total Solid	77.70	mg/Kg	2.726	SW846 6010	5/ 3/01	
Lead Total Solids	153.	mg/Kg	2.3	SW846 6010	5/ 3/01	
otal Percent Solids	91.7	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003559
Sample Identification: E17-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
Arsenic Total Solid	75.47	mg/Kg	2.744	SW846 6010	5/ 3/01	
Lead Total Solids	141.	mg/Kg	2.3	SW846 6010	5/ 3/01	
otal Percent Solids	91.1	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

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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: 5/10/01

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

Laboratory Number: 01-E003560
Sample Identification: E17-S03
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
Arsenic Total Solid	73.26	mg/Kg	2.907	SW846 6010	5/ 3/01	
Lead Total Solids	8.5	mg/Kg	2.4	SW846 6010	5/ 3/01	
Total Percent Solids	86.0	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003561
Sample Identification: E17-S05
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
Arsenic Total Solid	43.51	mg/Kg	2.703	SW846 6010	5/ 3/01	
Lead Total Solids	17.4	mg/Kg	2.3	SW846 6010	5/ 3/01	
otal Percent Solids	92.5	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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Wenatchee, WA 98801

(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: 5/10/01

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

Laboratory Number: 01-E003562
Sample Identification: E18-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
Arsenic Total Solid	115.6	mg/Kg	2.828	SW846 6010	5/ 3/01	
Lead Total Solids	744.	mg/Kg	2.4	SW846 6010	5/ 3/01	
otal Percent Solids	88.4	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 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
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
Arsenic Total Solid	74.28	mg/Kg	2.983	SW846 6010	5/ 3/01	
Lead Total Solids	6.2	mg/Kg	2.5	SW846 6010	5/ 3/01	
Total Percent Solids	83.8	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 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
Sample Comment: Eastmont 800.106.008

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

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 Solids	90.1	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003565
Sample Identification: FA041901
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
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003566
Sample Identification: E22-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
Arsenic Total Solid	49.72	mg/Kg	2.762	SW846 6010	5/ 3/01	
Lead Total Solids	38.5	mg/Kg	2.3	SW846 6010	5/ 3/01	
Total Percent Solids	90.5	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003567
Sample Identification: E22-S03
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 Total Solid	64.10	mg/Kg	2.914	SW846 6010	5/ 3/01	
Lead Total Solids	16.9	mg/Kg	2.4	SW846 6010	5/ 3/01	
otal Percent Solids	85.8	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003568
Sample Identification: E22-S05
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
Arsenic Total Solid	36.12	mg/Kg	2.867	SW846 6010	5/ 3/01	
Lead Total Solids	22.1	mg/Kg	2.4	SW846 6010	5/ 3/01	
otal Percent Solids	87.2	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(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: 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	
admium 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	
rcury 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	
Total Percent Solids	86.0	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
ther Analysis	Analyzed by SAS				4/27/01	

Approved By:

CASCADE ANALYTICAL, INC.
3019 G.S. Center Rd.
Wenatchee, WA 98801
(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: 5/10/01

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

Laboratory Number: 01-E003571
Sample Identification: E25-S03
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	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	
lenium Total Solid	< 2.81	mg/Kg	2.81	SW846 7740	4/27/01	
ver Total Solid	1.08	mg/Kg	0.14	SW846 6010	5/ 7/01	
Total Percent Solids	88.9	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/23/01	
ther Analysis	Analyzed by SAS				4/27/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003572
Sample Identification: E25-S07
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
Arsenic Total Solid	46.99	mg/Kg	2.732	SW846 6010	5/ 3/01	
Lead Total Solids	117.	mg/Kg	2.3	SW846 6010	5/ 3/01	
Total Percent Solids	91.5	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003573
Sample Identification: E26-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
Arsenic Total Solid	2.766	mg/Kg	2.685	SW846 6010	5/ 3/01	
Lead Total Solids	5.9	mg/Kg	2.3	SW846 6010	5/ 3/01	
Total Percent Solids	93.1	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003574
Sample Identification: E26-S03
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
Arsenic Total Solid	4.722	mg/Kg	3.472	SW846 6010	5/ 3/01	
Lead Total Solids	13.2	mg/Kg	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				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Laboratory Number: 01-E003575
Sample Identification: E28-S03
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
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	
Total Percent Solids	93.2	%	0.01 %	SM 2540-B	4/26/01	
Total Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	
Other Analysis	Analyzed by SAS				4/30/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(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: 5/10/01

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total Solid	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 Solids	95.2	%	0.01 %	SM 2540-B	4/26/01	
otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	
Other Analysis	Analyzed by SAS				4/27/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101554
Client: Forsgren Associates Inc
Account: 197
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
Sample Identification: E26-S07
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
Arsenic Total Solid	12.21	mg/Kg	2.729	SW846 6010	5/ 3/01	
Lead Total Solids	41.3	mg/Kg	2.3	SW846 6010	5/ 3/01	
otal Percent Solids	91.6	%	0.01 %	SM 2540-B	4/26/01	
.otal Metals Digest Solid	Metals Digest			SW846 3050	4/26/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101553
Client: Forsgren Associates Inc
Account: 197
Sampler: Brad Ziegler
PO Number:

--- 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-E003538
Sample Identification: E34
Sample Comment: Soil

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

As Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Other Analysis	Analyzed by SAS				5/ 1/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101553
Client: Forsgren Associates Inc
Account: 197
Sampler: Brad Ziegler
PO Number:

--- 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-E003539
Sample Identification: Equipment Plant
Sample Comment: Water

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

st Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total	< 3	ug/L	3	SM 3113B	5/ 3/01	
ead Total	< 0.5	ug/l	< 0.5	EPA239.2	4/27/01	
otal Metals Digest Water	Metals Digest				4/27/01	
Other Analysis	Analyzed by SAS				4/28/01	

Approved By:

CASCADE ANALYTICAL, INC.

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

(509) 662-1888

Fax: (509) 662-8183

1-800-545-4206

Batch: 101553
Client: Forsgren Associates Inc
Account: 197
Sampler: Brad Ziegler
PO Number:

--- 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-E003540
Sample Identification: Field Blank
Sample Comment: Water

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

Test Requested	Results	Units	MDL	Method	Date Analyzed	Flags
Arsenic Total	< 3	ug/L	3	SM 3113B	5/ 3/01	
Lead Total	2.9	ug/l	< 0.5	EPA239.2	4/27/01	
Total Metals Digest Water	Metals Digest				4/27/01	
Uther Analysis	Analyzed by SAS				4/25/01	

Approved By:

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3570 E25-501
Lab ID:	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

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

Sample results are on a dry weight basis.

Analyte	**Result (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	7	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	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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3571 E25.503
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

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

Sample results are on a dry weight basis.

Analyte	**Result (ug/kg)**	**PQL**	**MDL**	**Flags**
Dichlorvos	ND	7.4	2.4	
Mevinphos	ND	7.4	2.8	
Demeton,O-S	ND	7.4	2	
Ethoprop	ND	11	4.4	
Naled	ND	22	7.6	
Sulfotepp	ND	7.4	2	
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3570 E25-S01
Lab ID:	97707-11
Date Received:	4/24/01
Date Prepared:	4/25/01
Date Analyzed:	4/26/01
% Solids	89.32
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

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

Sample results are on a dry weight basis.

Analyte	Result (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	
MCPP	ND	7.3	2	
MCPA	ND	7.3	1.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3571 E25-503
Lab ID:	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

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

Sample results are on a dry weight basis.

Analyte	Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3539 EQUIPMENT BLANK
Lab ID:	97707-02
Date Received:	4/24/01
Date Prepared:	4/25/01
Date Analyzed:	4/28/01
% Solids	-
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Analyte	Result (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
Lab ID:	97707-03
Date Received:	4/24/01
Date Prepared:	4/25/01
Date Analyzed:	4/28/01
% Solids	-
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Analyte	Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3553 E14-501
Lab ID:	97707-07
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	85.16
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3556 E16-501
Lab ID:	97707-08
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

Sample results are on a dry weight basis.

Analyte		**Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3557 E16-503
Lab ID:	97707-09
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	85.3
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3565 FA041901
Lab ID:	97707-10 (dupl. of HA14-503)
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	89.84
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on a dry weight basis.

Analyte		Result (ug/kg)	PQL	MDL	Flags
Aldrin	ND		1	0.1	
alpha-BHC	ND		1	0.14	
beta-BHC		0.8	1	0.23	J C1
delta-BHC	ND		1	0.14	
gamma-BHC (Lindane)	ND		1	0.19	
Chlordane (technical)	ND		10	7.1	
4,4'-DDD		12	2.1	0.12	C2
4,4'-DDE		62	2.1	0.14	C1
4,4'-DDT		150	2.1	0.18	C1
Dieldrin		1.3	2.1	0.25	J C1
Endosulfan I		1.8	1	0.15	C2
Endosulfan II	ND		2.1	0.3	
Endosulfan sulfate	ND		2.1	0.3	
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3570 E25-501
Lab ID:	97707-11
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/27/01
% Solids	
Dilution Factor	20

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on an as received basis.

Analyte		**Result (ug/kg)**	**PQL**	**MDL**	**Flags**
Aldrin	ND		20	2	
alpha-BHC		3	20	2.8	J C1
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3571 E25-503
Lab ID:	97707-12
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/27/01
% Solids	
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

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

Sample results are on an as received basis.

Analyte		Result (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	
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		9.4	0.78	
Endrin ketone	ND		1.9	0.3	
Toxaphene	ND		94	11	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3573 E26-S01
Lab ID:	97707-13
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	92.83
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Tetrachloro-m-xylene	92.9		49	134
Decachlorobiphenyl	59.8		41	145

Sample results are on a dry weight basis.

Analyte		Result (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	J C1
delta-BHC	ND		1.1	0.14	
gamma-BHC (Lindane)		0.25	1.1	0.2	J C1
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	J C1
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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3574 E26.503
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

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Tetrachloro-m-xylene	78.9		49	134
Decachlorobiphenyl	42		41	145

Sample results are on a dry weight basis.

Analyte	Result (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	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3575 E28-503
Lab ID:	97707-15
Date Received:	4/24/01
Date Prepared:	4/26/01
Date Analyzed:	4/30/01
% Solids	88.95
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Tetrachloro-m-xylene	88.5		49	134
Decachlorobiphenyl	54.3		41	145

Sample results are on a dry weight basis.

Analyte		Result (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		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	

SOUND ANALYTICAL SERVICES, INC.

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

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Tetrachloro-m-xylene	92.1		49	134
Decachlorobiphenyl	81		41	145

Sample results are on a dry weight basis.

Analyte	Result (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		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	
Toxaphene	ND		100	13	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3538 E34 (@ ug tank)
Lab ID:	97707-01
Date Received:	4/24/01
Date Prepared:	5/1/01
Date Analyzed:	5/1/01
% Solids	93.89
Dilution Factor	20

NWTPH-HCID - Hydrocarbon Identification Method for Soil Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
1-chlorooctane	89.1		50	150
o-terphenyl	94.4		50	150

Sample results are on a dry weight basis.

Analyte	Result (mg/kg)	MDL	Flags
Gasoline (Toluene-nC12)	<20	20	
Diesel (>nC12-nC24)	<49	49	
Motor Oil (>nC24-nC32)	<99	99	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Project Name	Forsgren& Associates
Date Received	04-24-01

Sample Preparation Information for Toxicity Characteristic Leaching Procedure (TCLP) EPA Method 1311

Client Sample ID	01E-3544
Lab ID	97707-04

% Solids:	100
No. of Extractions:	1
Type of Extraction(s):	rotary
Extraction Fluid:	#1
Date Filtered:	05-01-01

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3544 E12-501
Lab ID:	97707-04
Date Received:	4/24/01
Date Prepared:	5/1/01
Date Analyzed:	5/1/01
Dilution Factor	1

TCLP Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	Flags
Arsenic	0.62	0.2	
Lead	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Project Name	Forsgren& Associates
Date Received	04-24-01

Sample Preparation Information for Toxicity Characteristic Leaching Procedure (TCLP) EPA Method 1311

Client Sample ID	01E-3546
Lab ID	97707-05

% Solids:	100
No. of Extractions:	1
Type of Extraction(s):	rotary
Extraction Fluid:	#1
Date Filtered:	05-01-01

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3546 E12-503
Lab ID:	97707-05
Date Received:	4/24/01
Date Prepared:	5/1/01
Date Analyzed:	5/1/01
Dilution Factor	1

TCLP Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	Flags
Arsenic	0.58	0.2	
Lead	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Project Name	Forsgren& Associates
Date Received	04-24-01

Sample Preparation Information for Toxicity Characteristic Leaching Procedure (TCLP) EPA Method 1311

Client Sample ID	01E-3548
Lab ID	97707-06

% Solids:	100
No. of Extractions:	1
Type of Extraction(s):	rotary
Extraction Fluid:	#1
Date Filtered:	05-01-01

SOUND ANALYTICAL SERVICES, INC.

Client Name	Cascade Analytical, Inc.
Client ID:	01E-3548 E12-505
Lab ID:	97707-06
Date Received:	4/24/01
Date Prepared:	5/1/01
Date Analyzed:	5/1/01
Dilution Factor	1

TCLP Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	Flags
Arsenic	0.25	0.2	
Lead	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - OS0030
Date Received:	-
Date Prepared:	4/25/01
Date Analyzed:	4/26/01
% Solids	
Dilution Factor	10

Organophosphorus Pesticides by USEPA Method 8141 GC/MS Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Tributyl Phosphate	88.7		46	129
Triphenyl Phosphate	94.9		53	135

Sample results are on an as received basis.

Analyte	Result (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	3.9	
Azinphos,methyl	ND	6.7	2.6	
Coumaphos	ND	10	4.6	

SOUND ANALYTICAL SERVICES, INC.

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	Blank Result (ug/kg)	Spike Amount (ug/kg)	BS Result (ug/kg)	BS % Rec.	Flag
Diazinon	0	670	483	72	
Malathion	0	670	484	73	
Chlorpyrifos	0	670	539	81	
Azinphos,methyl	0	670	497	75	

SOUND ANALYTICAL SERVICES, INC.

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

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	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:	4/26/01
% Solids	
Dilution Factor	10

Chlorinated Herbicides by USEPA Method 8151 GC/MS Modified

Surrogate	% Recovery	Flags	Recovery Limits Low	High
2,4-Dichlorophenylacetic acid	96.6		72	130

Sample results are on an as received basis.

Analyte	Result (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	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	

SOUND ANALYTICAL SERVICES, INC.

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	Blank Result (ug/kg)	Spike Amount (ug/kg)	BS Result (ug/kg)	BS % Rec.	Flag
Dalapon	0	670	202	30	
Dicamba	0	670	467	70	
2,4-D	0	670	651	98	
Pentachlorophenol	0	670	707	106	
Silvex (2,4,5-TP)	0	670	588	88	
Dinoseb	0	670	546	82	
MCPP	0	670	679	102	

SOUND ANALYTICAL SERVICES, INC.

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:	HS0065

Chlorinated Herbicides by USEPA Method 8151 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
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:	4/28/01
% Solids	-
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Tetrachloro-m-xylene	98.7		47	139
Decachlorobiphenyl	90.3		42	161

Analyte	Result (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	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - PE1373
Date Received:	-
Date Prepared:	4/26/01
Date Analyzed:	4/27/01
% Solids	
Dilution Factor	1

Organochlorine Pesticides by USEPA Method 8081A

Surrogate	% Recovery	Flags	Recovery Limits Low	High
Tetrachloro-m-xylene	95.2		49	134
Decachlorobiphenyl	83.4		41	145

Sample results are on an as received basis.

Analyte	Result (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	2	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	
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	100	12	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	PE2655
Date Prepared:	4/25/01
Date Analyzed:	4/28/01
QC Batch ID:	PE2655

Organochlorine Pesticides by USEPA Method 8081A

Compound Name	Blank Result (ug/L)	Spike Amount (ug/L)	BS Result (ug/L)	BS % Rec.	BSD Result (ug/L)	BSD % 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	

SOUND ANALYTICAL SERVICES, INC.

Blank Spike/Blank Spike Duplicate Report

Lab ID:	PE1373
Date Prepared:	4/26/01
Date Analyzed:	4/27/01
QC Batch ID:	PE1373

Organochlorine Pesticides by USEPA Method 8081A

Compound Name	Blank Result (ug/kg)	Spike Amount (ug/kg)	BS Result (ug/kg)	BS % Rec.	BSD Result (ug/kg)	BSD % 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	24.1	96.2	24.9	99.8	3.7	

SOUND ANALYTICAL SERVICES, INC.

Matrix Spike/Matrix Spike Duplicate Report

Client Sample ID:	01E-3576
Lab ID:	97707-16
Date Prepared:	4/26/01
Date Analyzed:	4/27/01
QC Batch ID:	PE1373

Organochlorine Pesticides by USEPA Method 8081A

Compound Name	Sample Result (ug/kg)	Spike Amount (ug/kg)	MS Result (ug/kg)	MS % Rec.	MSD Result (ug/kg)	MSD % 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	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - HC578
Date Received:	-
Date Prepared:	5/1/01
Date Analyzed:	5/1/01
% Solids	
Dilution Factor	20

NWTPH-HCID - Hydrocarbon Identification Method for Soil Modified

			Recovery Limits	
Surrogate	**% Recovery**	**Flags**	**Low**	**High**
1-chlorooctane	86.8		50	150
o-terphenyl	92		50	150

Sample results are on an as received basis.

Analyte	**Result (mg/kg)**	**MDL**	**Flags**
Gasoline (Toluene-nC12)	<20	20	
Diesel (>nC12-nC24)	<50	50	
Motor Oil (>nC24-nC32)	<100	100	

SOUND ANALYTICAL SERVICES, INC.

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
Gasoline (Toluene-nC12)	<20	<20	NC	
Diesel (>nC12-nC24)	<49	<50	NC	
Motor Oil (>nC24-nC32)	<99	<100	NC	

SOUND ANALYTICAL SERVICES, INC.

Lab ID:	Method Blank - LP510
Date Received:	-
Date Prepared:	5/1/01
Date Analyzed:	5/1/01
Dilution Factor	1

TCLP Metals by ICP - USEPA Method 6010

Analyte	Result (mg/L)	PQL	Flags
Arsenic	ND	0.2	
Lead	ND	0.1	

SOUND ANALYTICAL SERVICES, INC.

Duplicate 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

Parameter Name	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD %	Flag
Arsenic	0	0	NC	
Lead	14	14	0.0	

SOUND ANALYTICAL SERVICES, INC.

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

Parameter Name	Sample Result (mg/L)	Spike Amount (mg/L)	MS Result (mg/L)	MS % Rec.	Flag
Arsenic	0	5	5.31	106	
Lead	14	5	19.6	106	

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 re-analyzed 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)