

## Site Hazard Assessment Sampling and Analysis Plan Checklist

1. **Site Description/History:** The Aesquivel property, located at 14325 35<sup>th</sup> Ave. NE, Seattle WA. is a former illegal Methamphetamine manufacturing facility on a residential property. The property is approximately a fifth of an acre in size and is bordered on the south and north by other residential sites and to the east by 35<sup>th</sup> Ave NE, and to the west by a steep slope leading to a commercial parking lot. The site is served by municipal drinking water and sewer systems. On April 29, 2002 the City of Seattle Police Department responded to a domestic dispute at the site and discovered equipment set up for the illegal manufacture of Methamphetamine in a trailer parked on the property. This site was a small-scale production facility which contained several containers of acetone and other assorted chemicals. The property was also used for the dismantling of stolen vehicles and contained piles of automotive parts, open transmissions, four junked vehicles and a small boat. Also located on the site were eight, five-gallon buckets filled with used motor oil. Several areas on the property contain soil that is saturated with what appears to be motor oil and other automotive fluids.

The property has a small residential structure and detached garage with a covered storage area. The ground surface of the Aesquivel property is slightly sloped and vegetated with grasses and trees. The entire area is soil and contains no paved surfaces.

Carsten Thomsen of Public Health-Seattle & King County (PHSKC) performed a site inspection of the property on April 30, 2002 with personnel from the Illegal Drug Lab section of PHSKC. At the time, there were several spill areas on the property along with open automotive transmissions leaking oil. It was recommended that the Washington State Department of Ecology (Ecology) list the site as a suspected contaminated site. In July of 2004 the Aesquivel property site was added to Ecology's Confirmed and Suspected Contaminated Sites List.

Evaluation of the site by personnel from PHSKC's Illegal Drug Lab section showed that the trailer located on the Aesquivel property had been used to transport/store chemicals used in the production of methamphetamine and could have been used as a meth lab and possibly contaminating it. A warning letter was sent to the trailers registered owner.

2. **Key Personnel Identified:** Carsten Thomsen, Sampling, Recording, Decon.  
Yolanda Pon, Sampling, Recording, Decon.
3. **Request for Analysis Form Submitted:** Sampling has been set up with OnSite Environmental, Inc., Redmond .
4. **Sampling:**  
Proposed Date- 11/10/04

Objectives-

- a. Obtain representative samples of soil to establish of confirm, identification of specific hazardous constituents.
- b. Use data to assign WARM scoring values; or
- c. Document the absence of significant contaminant concentrations and make a recommendation of No Further Action for the site.

Locations-Three soil samples will be collected on the property. (See attached map)

Types-Soil

Frequency- One time sampling event only.

Methods-NWTPH, Metals

Containers-Soil-4oz. glass jars,

Preservatives-Upon sampling containers will be iced and stored in cooler for export to the lab. Samples will be delivered the same day to the lab.

Equipment Decontamination- Equipment will be scraped and cleaned on site.

5. Investigative Waste Disposition: Investigative waste will be returned to site.
6. Site-Specific Analytical Considerations: Sample locations may change based on observations during site visit.
7. Field Sample Data and Chain-of-Custody Sheet: Will be completed.
8. Laboratory QA/QC: All analysis will be done by OnSite Environmental Inc., Redmond which is a certified lab in all the parameters that will be run on the samples.
9. Field QA/QC  
Field Blanks

Transfer Blank- Sampling container will be filled with a suitable blank substance and sealed and kept with other samples throughout the entire sampling event if laboratory recommends.

# FIELD SAMPLE SHEET

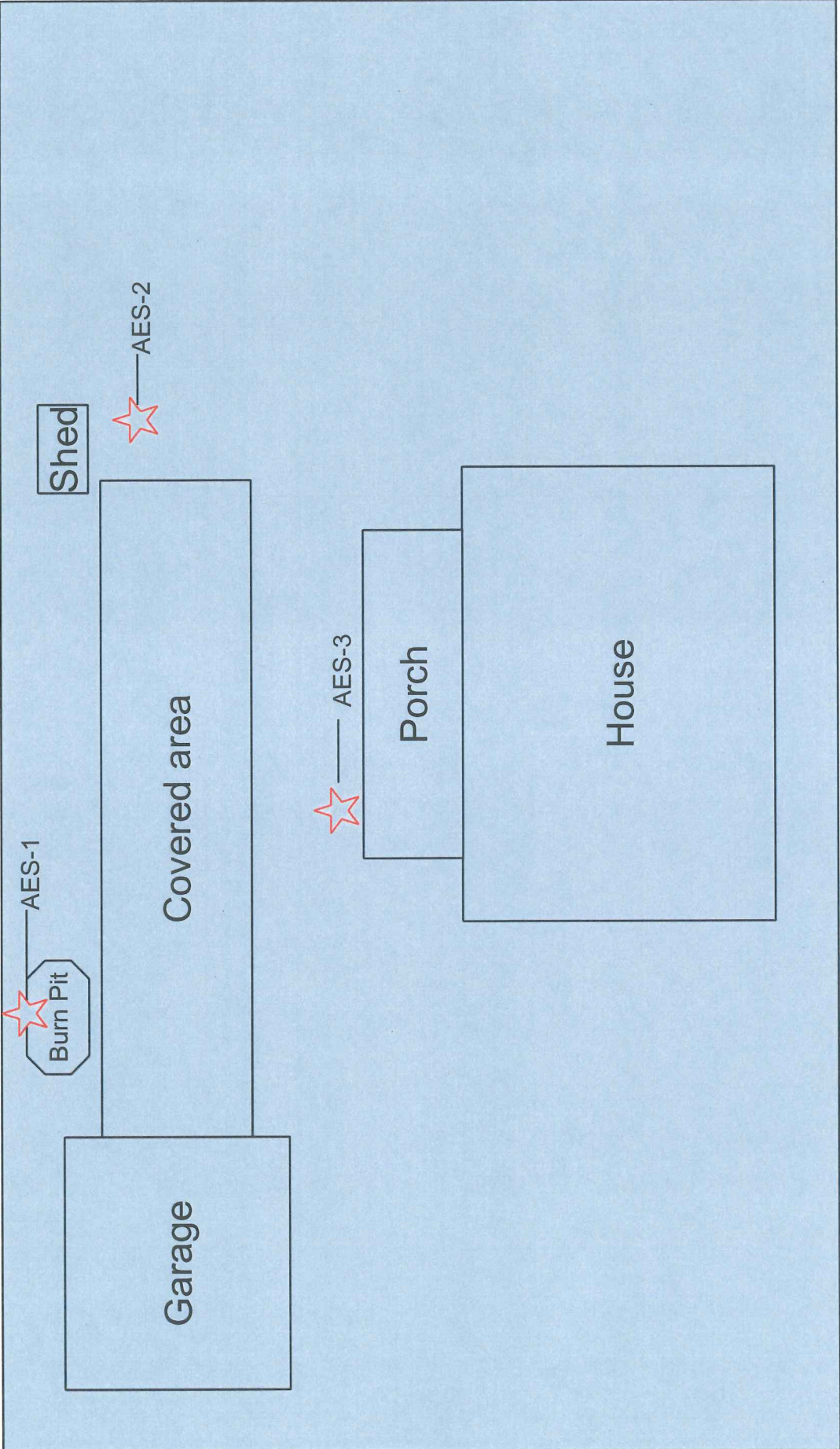
Sampling Date: November 10, 2004

Site name and address: Aesquival Property  
14325 35<sup>th</sup> Ave. NE  
Seattle, WA 98125

Sample # *	Location	Analyte(s)	Method
AES-1	See site map	NWTPH-Diesel Extended Total RCRA Metals(8) Polycyclic Aromatic Hydrocarbons (PAH's)	NWTPH-Dx Total RCRA Metals PAH's (8270C)
AES-2	See site map	NWTPH-Diesel Extended Total RCRA Metals(8)	NWTPH-Dx Total RCRA Metals
AES-3	See site map	NWTPH-Diesel Extended Total RCRA Metals(8)	NWTPH-Dx Total RCRA Metals

\* Samples will be collected at a depth of four to six inches below ground surface.

Aesquival Property  
14325 35th Ave NE  
Seattle, WA 98125





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

November 18, 2004

Carsten Thomsen  
Seattle - King County  
Department of Public Health  
1<sup>st</sup> Interstate Center  
999 3<sup>rd</sup> Avenue, Suite 700  
Seattle, WA 98104-4099

Re: Analytical Data for Project Aesquivel Prop.  
Laboratory Reference No. 0411-084

Dear Carsten:

Enclosed are the analytical results and associated quality control data for samples submitted on November 10, 2004.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister  
Project Manager

Enclosures

---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,  
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 18, 2004  
Samples Submitted: November 10, 2004  
Laboratory Reference: 0411-084  
Project: Aesquivel Prop.

#### Case Narrative

Samples were collected on November 10, 2004 and received by the laboratory on November 10, 2004. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: November 18, 2004  
 Samples Submitted: November 10, 2004  
 Laboratory Reference: 0411-084  
 Project: Aesquivel Prop.

**NWTPH-Dx**

Date Extracted: 11-15-04  
 Date Analyzed: 11-15&17-04

Matrix: Soil  
 Units: mg/kg (ppm)

Client ID:	AES-1	AES-2	AES-3
Lab ID:	11-084-01	11-084-02	11-084-03
Diesel Range:	ND	64	ND
PQL:	320	31	29
Identification:	---	Diesel Range Organics	---
Lube Oil Range:	1000	1000	120
PQL:	640	63	58
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery o-Terphenyl:	---	104%	79%
Flags:	Y,S	Y	Y

Date of Report: November 18, 2004  
Samples Submitted: November 10, 2004  
Laboratory Reference: 0411-084  
Project: Aesquivel Prop.

**NWTPH-Dx**  
**METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-15-04  
Date Analyzed: 11-15-04

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: MB1115S1

Diesel Range: **ND**  
PQL: 25  
Identification: ---

Lube Oil Range: **ND**  
PQL: 50  
Identification: ---

Surrogate Recovery  
o-Terphenyl: 105%

Flags: Y

Date of Report: November 18, 2004  
Samples Submitted: November 10, 2004  
Laboratory Reference: 0411-084  
Project: Aesquivel Prop.

**NWTPH-Dx  
DUPLICATE QUALITY CONTROL**

Date Extracted: 11-15-04  
Date Analyzed: 11-15&16-04

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: 11-118-01 11-118-01 DUP

Diesel Range: ND ND  
PQL: 25 25

RPD: NA

Surrogate Recovery  
o-Terphenyl: 109% 87%

Flags: Y Y

Date of Report: November 18, 2004  
 Samples Submitted: November 10, 2004  
 Laboratory Reference: 0411-084  
 Project: Aesquivel Prop.

**PAHs by EPA 8270C/SIM**

Date Extracted: 11-16-04  
 Date Analyzed: 11-17-04  
 Matrix: Soil  
 Units: mg/kg (ppm)  
 Lab ID: 11-084-01  
 Client ID: AES-1

Compound:	Results	Flags	PQL
Naphthalene	ND		0.17
2-Methylnaphthalene	ND		0.17
1-Methylnaphthalene	ND		0.17
Acenaphthylene	ND		0.17
Acenaphthene	ND		0.17
Fluorene	ND		0.17
Phenanthrene	ND		0.17
Anthracene	ND		0.17
Fluoranthene	ND		0.17
Pyrene	0.30		0.17
Benzo[a]anthracene	ND		0.17
Chrysene	0.22		0.17
Benzo[b]fluoranthene	0.38		0.17
Benzo[k]fluoranthene	0.23		0.17
Benzo[a]pyrene	0.75	0.1	0.17
Indeno(1,2,3-c,d)pyrene	0.59		0.17
Dibenz[a,h]anthracene	0.18		0.17
Benzo[g,h,i]perylene	1.9		0.17

Surrogate :	Percent Recovery	Control Limits
Nitrobenzene-d5	86	27 - 107
2-Fluorobiphenyl	94	33 - 100
Terphenyl-d14	90	55 - 106

Date of Report: November 18, 2004  
 Samples Submitted: November 10, 2004  
 Laboratory Reference: 0411-084  
 Project: Aesquivel Prop.

**PAHs by EPA 8270C/SIM  
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-16-04  
 Date Analyzed: 11-16-04  
 Matrix: Soil  
 Units: mg/kg (ppm)  
 Lab ID: MB1116S1

<b>Compound:</b>	<b>Results</b>	<b>Flags</b>	<b>PQL</b>
Naphthalene	ND		0.0067
2-Methylnaphthalene	ND		0.0067
1-Methylnaphthalene	ND		0.0067
Acenaphthylene	ND		0.0067
Acenaphthene	ND		0.0067
Fluorene	ND		0.0067
Phenanthrene	ND		0.0067
Anthracene	ND		0.0067
Fluoranthene	ND		0.0067
Pyrene	ND		0.0067
Benzo[a]anthracene	ND		0.0067
Chrysene	ND		0.0067
Benzo[b]fluoranthene	ND		0.0067
Benzo[k]fluoranthene	ND		0.0067
Benzo[a]pyrene	ND		0.0067
Indeno(1,2,3-c,d)pyrene	ND		0.0067
Dibenz[a,h]anthracene	ND		0.0067
Benzo[g,h,i]perylene	ND		0.0067

<b>Surrogate :</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
Nitrobenzene-d5	77	27 - 107
2-Fluorobiphenyl	79	33 - 100
Terphenyl-d14	91	55 - 106

Date of Report: November 18, 2004  
 Samples Submitted: November 10, 2004  
 Laboratory Reference: 0411-084  
 Project: Aesquivel Prop.

**PAHs by EPA 8270C/SIM  
 MS/MSD QUALITY CONTROL**

Date Extracted: 11-16-04  
 Date Analyzed: 11-16-04

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 11-054-02

Compound:	Sample Amount	Spike Amount	MS	Percent Recovery	MSD	Percent Recovery	Recovery Limits	Flags
Naphthalene	ND	0.0833	0.0650	78	0.0784	94	30-115	
Acenaphthylene	ND	0.0833	0.0691	83	0.0806	97	46-125	
Acenaphthene	ND	0.0833	0.0728	87	0.0861	103	40-119	
Fluorene	ND	0.0833	0.0725	87	0.0837	101	50-133	
Phenanthrene	ND	0.0833	0.0774	93	0.0857	103	48-128	
Anthracene	ND	0.0833	0.0739	89	0.0813	98	53-134	
Fluoranthene	ND	0.0833	0.0808	97	0.0884	106	50-143	
Pyrene	ND	0.0833	0.0777	93	0.0847	102	44-139	
Benzo[a]anthracene	ND	0.0833	0.0752	90	0.0822	99	62-129	
Chrysene	ND	0.0833	0.0845	101	0.0921	111	42-127	
Benzo[b]fluoranthene	ND	0.0833	0.0810	97	0.0872	105	57-132	
Benzo[k]fluoranthene	ND	0.0833	0.0785	94	0.0884	106	57-131	
Benzo[a]pyrene	ND	0.0833	0.0732	88	0.0790	95	59-132	
Indeno(1,2,3-c,d)pyrene	ND	0.0833	0.0787	94	0.0876	105	55-135	
Dibenz[a,h]anthracene	ND	0.0833	0.0765	92	0.0836	100	36-146	
Benzo[g,h,i]perylene	ND	0.0833	0.0801	96	0.0884	106	42-140	

	RPD	RPD Limit	Flags
Naphthalene	19	20	
Acenaphthylene	15	22	
Acenaphthene	17	22	
Fluorene	14	17	
Phenanthrene	10	19	
Anthracene	9	29	
Fluoranthene	9	17	
Pyrene	9	19	
Benzo[a]anthracene	9	13	
Chrysene	9	14	
Benzo[b]fluoranthene	7	17	
Benzo[k]fluoranthene	12	15	
Benzo[a]pyrene	8	15	
Indeno(1,2,3-c,d)pyrene	11	16	
Dibenz[a,h]anthracene	9	16	
Benzo[g,h,i]perylene	10	17	

Date of Report: November 18, 2004  
Samples Submitted: November 10, 2004  
Laboratory Reference: 0411-084  
Project: Aesquivel Prop.

**TOTAL METALS  
EPA 6010B/7471A**

Date Extracted: 11-11&15-04  
Date Analyzed: 11-12&15-04

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: 11-084-01  
Client ID: AES-1

Analyte	Method	Result	PQL
Arsenic	6010B	ND	13
Barium	6010B	110	3.2
Cadmium	6010B	ND	0.64
Chromium	6010B	31	0.64
Lead	6010B	96	6.4
Mercury	7471A	ND	0.32
Selenium	6010B	ND	13
Silver	6010B	ND	0.64

Date of Report: November 18, 2004  
Samples Submitted: November 10, 2004  
Laboratory Reference: 0411-084  
Project: Aesquivel Prop.

**TOTAL METALS  
EPA 6010B/7471A**

Date Extracted: 11-11&15-04  
Date Analyzed: 11-12&15-04

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: 11-084-02  
Client ID: AES-2

Analyte	Method	Result	PQL
Arsenic	6010B	ND	13
Barium	6010B	110	3.1
Cadmium	6010B	ND	0.63
Chromium	6010B	32	0.63
Lead	6010B	68	6.3
Mercury	7471A	ND	0.31
Selenium	6010B	ND	13
Silver	6010B	ND	0.63

Date of Report: November 18, 2004  
Samples Submitted: November 10, 2004  
Laboratory Reference: 0411-084  
Project: Aesquivel Prop.

**TOTAL METALS  
EPA 6010B/7471A**

Date Extracted: 11-11&15-04  
Date Analyzed: 11-12&15-04

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: 11-084-03  
Client ID: AES-3

Analyte	Method	Result	PQL
Arsenic	6010B	ND	12
Barium	6010B	110	2.9
Cadmium	6010B	ND	0.58
Chromium	6010B	29	0.58
Lead	6010B	27	5.8
Mercury	7471A	ND	0.29
Selenium	6010B	ND	12
Silver	6010B	ND	0.58

Date of Report: November 18, 2004  
Samples Submitted: November 10, 2004  
Laboratory Reference: 0411-084  
Project: Aesquivel Prop.

**TOTAL METALS  
EPA 6010B/7471A  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-11&15-04  
Date Analyzed: 11-12&15-04  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB1111S1&MB1115S2

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Barium	6010B	ND	2.5
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.25
Selenium	6010B	ND	10
Silver	6010B	ND	0.50

Date of Report: November 18, 2004  
 Samples Submitted: November 10, 2004  
 Laboratory Reference: 0411-084  
 Project: Aesquivel Prop.

**TOTAL METALS  
 EPA 6010B/7471A  
 DUPLICATE QUALITY CONTROL**

Date Extracted: 11-11&15-04  
 Date Analyzed: 11-12&15-04

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 11-084-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	90.5	79.0	14	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	25.0	22.6	10	0.50	
Lead	23.5	21.2	11	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	0.50	

Date of Report: November 18, 2004  
 Samples Submitted: November 10, 2004  
 Laboratory Reference: 0411-084  
 Project: Aesquivel Prop.

**TOTAL METALS  
 EPA 6010B/7471A  
 MS/MSD QUALITY CONTROL**

Date Extracted: 11-11&15-04  
 Date Analyzed: 11-12&15-04

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 11-084-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	89.2	89	96.6	97	8	
Barium	100	180	90	183	93	2	
Cadmium	50	44.4	89	46.7	93	5	
Chromium	100	120	95	125	100	4	
Lead	250	237	85	247	89	4	
Mercury	1.0	1.08	108	1.03	103	5	
Selenium	100	83.6	84	86.0	86	3	
Silver	50	48.0	96	48.6	97	1	

Date of Report: November 18, 2004  
Samples Submitted: November 10, 2004  
Laboratory Reference: 0411-084  
Project: Aesquivel Prop.

**% MOISTURE**

Date Analyzed: 11-11-04

Client ID	Lab ID	% Moisture
AES-1	11-084-01	22
AES-2	11-084-02	20
AES-3	11-084-03	14



#### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - G - Insufficient sample quantity for duplicate analysis.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a silica gel cleanup procedure.
  - Y - Sample extract treated with an acid/silica gel cleanup procedure.
  - Z -
- ND - Not Detected at PQL  
PQL - Practical Quantitation Limit  
RPD - Relative Percent Difference



**OnSite Environmental Inc.**

14648 NE 95th Street • Redmond, WA 98052  
 Phone: (425) 883-3881 • Fax: (425) 885-4603

**Chain of Custody**

Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days) <input type="checkbox"/> _____ (other)		Project Manager: <b>Laboratory No. 11-084</b> <b>Requested Analysis</b>																				
Company:	KING CO. HEALTH DEPT.																					
Project No.:																						
Project Name:	AESQUIVEL PROP.																					
Project Manager:	CARSTEN THOMSEN (206-296-4830)																					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCBs by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH	% Moisture	
1	AES-1	11/10/04	10:19 am	S	1	X		X				X				X						X
2	AES-2	11/10/04	10:23 am	S	1	X		X								X						X
3	AES-3	11/10/04	10:27 am	S	1	X		X								X						X
		RECEIVED BY	DATE	TIME	FIRM	COMMENTS:						DATE	TIME	FIRM								
		C. THOMSEN	11/10/04			OnSite Inc.						11/10/04										
		RECEIVED BY	DATE	TIME	FIRM							DATE	TIME	FIRM								
		F.C. HEALTH										1400										
		RECEIVED BY	DATE	TIME	FIRM							DATE	TIME	FIRM								
		REVIEWED BY	DATE	TIME	FIRM							DATE REVIEWED										

Chromatographs with final report