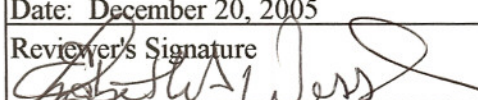


CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

AMEC Earth & Environmental
550 South Wadsworth Boulevard
Suite 500
Lakewood, CO 80226

Package ID T713MT3
Task Order 313150010
SDG No. IOJ01122
No. of Analyses 5

Laboratory Del Mar- Irvine
Reviewer E. Wessling
Analysis/Method Metals by 6010B/7471A

Date: December 20, 2005
Reviewer's Signature 

ACTION ITEMS ^a	
1. Case Narrative Deficiencies	
2. Out of Scope Analyses	
3. Analyses Not Conducted	
4. Missing Hardcopy Deliverables	
5. Incorrect Hardcopy Deliverables	
6. Deviations from Analysis Protocol, e.g., Holding Times GC/MS Tune/Inst. Performance Calibration Method blanks Surrogates Matrix Spike/Dup LCS Field QC Internal Standard Performance Compound Identification Quantitation System Performance	Qualifications were assigned for the following: -- blank contamination
COMMENTS ^b	
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

Topanga Fire Ash Samples

ANALYSIS: METALS

SAMPLE DELIVERY GROUP IOJ1122

Prepared by

AMEC—Denver Operations
355 South Teller Street, Suite 300
Lakewood, Colorado 80226

1. INTRODUCTION

Task Order Title:	Topanga Fire Ash Samples
Contract Task Order #:	313150010
SDG#:	IOJ1122
Project Manager:	P. Costa
Matrix:	Solid
Analysis:	Metals
QC Level:	Level IV
No. of Samples:	5
No. of Reanalyses/Dilutions:	0
Reviewer:	E. Wessling
Date of Review:	December 7, 2005

The samples listed in Table 1 were validated based on the guidelines outlined in the *AMEC Data Validation Procedure for Levels III and IV ICP Metals* (DVP-5, Rev. 2), *SW-846 Methods 6010B for ICP-AES and 7471A for Mercury (Manual Cold-Vapor Technique)*, and validation guidelines outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review* (2/94). Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

DATA VALIDATION REPORT

Project: Topanga Fire
SDG No.: IOJ1122
Analysis: METALS

Table 1. Sample identification

Client ID	EPA ID	Laboratory ID	Matrix	COC Method
BCSS09S01	WL024	IOJ1122-01	Ash	6010/7471
BCSS09S01	WL025	IOJ1122-02	Soil	6010/7471
BZSS05S01	WL026	IOJ1122-03	Soil	6010/7471
BZSS06S01	WL027	IOJ1122-04	Soil	6010/7471
BZSS05S01	WL028	IOJ1122-05	Ash	6010/7471

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

Samples in this SDG was received at the laboratory above the temperature limits of $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$, at 15°C ; however, as the samples were not volatile in nature, no qualifications were required. No sample preservation, handling, or transport problems were noted, and no qualifications were necessary.

2.1.2 Chain of Custody

The COC was signed and dated by field and laboratory personnel. The COC accounted for the samples and analyses presented in this SDG. No sample qualifications were required.

2.1.3 Holding Times

The dates of collection recorded on the COC and the dates of analyses recorded in the raw data, documented that the sample analyses were performed within the specified holding times of six months for the ICP metals and 28-days for mercury. No qualifications were required.

2.2 ICP-MS TUNING

The ICP-MS analysis was not utilized for the samples in this SGD and therefore not applicable.

2.3 CALIBRATION

The ICV results showed acceptable recoveries, 90-110% for ICP metals and 80-120% for mercury. The laboratory analyzed reporting limit check standards in association with this SDG and all recoveries were acceptable. No qualifications were required.

2.4 BLANKS

The method blank and CCB results were nondetects at the reporting limit or were significantly below the sample detects so as not to result in qualification of the data with the exception of the CCB associated with the analysis of nickel in sample WL025. Nickel in sample WL025 was qualified as an estimated nondetect, "UJ," No further qualifications were required.

2.5 ICP INTERFERENCE CHECK SAMPLE (ICS A/AB)

ICSA and ICSAB analyses were included in the raw data for the ICP analyses. The recoveries were within the control limits and no qualifications were required.

2.6 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The ICP LCS samples, ICP/MS LCS samples and mercury LCS samples as reported on the LCS on the summary forms and in the raw data were within the laboratory-established control limits. No qualifications were required.

2.7 LABORATORY DUPLICATES

MS/MSD analyses were performed on samples not associated with these sites. No evaluation was made for the samples in these SDGs.

2.8 MATRIX SPIKE

MS/MSD analyses were performed on samples not associated with these sites. No evaluation was made for the samples in these SDGs.

2.9 FURNACE ATOMIC ABSORPTION QC

Furnace atomic absorption was not utilized for the analyses of these samples; therefore, furnace atomic absorption QC is not applicable.

2.10 ICP/MS AND ICP SERIAL DILUTION

No serial dilution analyses were performed in association with the samples in this SDG; therefore, no assessment was made with respect to this criterion.

2.11 INTERNAL STANDARDS PERFORMANCE

The ICP-MS analysis was not utilized for the samples in this SDG and therefore not applicable.

2.12 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the samples in this data package. Calculations were verified, and the sample results reported on the Form Is were verified against the raw data. No transcription errors or calculation errors were noted. Some target analytes were reported from dilution analyses due to matrix interference. Reporting limits and MDLs were adjusted accordingly. Samples were qualified following the RFI program criteria. No further qualifications were required.

2.13 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated samples.

2.13.1 Field Blanks and Equipment Rinsates

The samples in this SDG had no associated field QC samples. No qualifications were required.

2.13.2 Field Duplicates

There were no field duplicate analyses performed in association with the site samples.



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MWH-San Diego
 9444 Farnham Street, Suite 300
 San Diego, CA 92123
 Attention: Lisa J. Tucker

Project ID: Ash samples - RFI
 Boeing SSFL
 Report Number: IOJ1122

Sampled: 10/14/05
 Received: 10/14/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1122-01 (WL024 - Solid)									
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	5J18102	10	21	13000	2	10/18/05	10/25/05	
Antimony	EPA 6010B	5J18102	1.7	21	ND	2	10/18/05	10/25/05	RL-1
Arsenic	EPA 6010B	5J18102	1.2	4.1	3.9	2	10/18/05	10/25/05	RL-1, J
Barium	EPA 6010B	5J18102	1.7	2.1	300	2	10/18/05	10/25/05	
Beryllium	EPA 6010B	5J18102	0.41	1.0	ND	2	10/18/05	10/25/05	RL-1
Boron	EPA 6010B	5J18102	2.1	10	160	2	10/18/05	10/25/05	
Cadmium	EPA 6010B	5J18102	0.41	1.0	ND	2	10/18/05	10/25/05	RL-1
Chromium	EPA 6010B	5J18102	0.62	2.1	15	2	10/18/05	10/25/05	
Cobalt	EPA 6010B	5J18102	0.62	2.1	4.5	2	10/18/05	10/25/05	
Copper	EPA 6010B	5J18102	0.41	4.1	64	2	10/18/05	10/25/05	
Iron	EPA 6010B	5J18102	3.1	10	12000	2	10/18/05	10/25/05	
Lead	EPA 6010B	5J18102	0.83	4.1	9.7	2	10/18/05	10/25/05	
Lithium	EPA 6010B	5J18102	1.9	13	14	2	10/19/05	10/25/05	
Manganese	EPA 6010B	5J18102	1.7	2.1	520	2	10/19/05	10/25/05	
Mercury	EPA 7471A	5J20115	0.0031	0.021	0.0038	1	10/20/05	10/21/05	J
Molybdenum	EPA 6010B	5J18102	0.41	4.1	1.7	2	10/18/05	10/25/05	RL-1, J
Nickel	EPA 6010B	5J18102	0.41	4.1	24	2	10/18/05	10/25/05	
Potassium	EPA 6010B	5J18102	83	100	53000	2	10/19/05	10/25/05	
Selenium	EPA 6010B	5J18102	2.1	4.1	ND	2	10/18/05	10/25/05	RL-1
Silver	EPA 6010B	5J18102	0.83	2.1	ND	2	10/18/05	10/25/05	RL-1
Sodium	EPA 6010B	5J18102	31	100	3100	2	10/19/05	10/25/05	
Thallium	EPA 6010B	5J18102	1.7	21	ND	2	10/18/05	10/25/05	RL-1
Vanadium	EPA 6010B	5J18102	0.62	2.1	28	2	10/18/05	10/25/05	
Zinc	EPA 6010B	5J18102	3.1	10	150	2	10/18/05	10/25/05	
Zirconium	EPA 6010B	5J18102	3.1	52	4.1	2	10/18/05	10/31/05	RL-1, J

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Del Mar Analytical, Irvine
 Michele Harper
 Project Manager

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MWH-San Diego
9444 Farnham Street, Suite 300
San Diego, CA 92123
Attention: Lisa J. Tucker

Project ID: Ash samples - RFI
Boeing SSFL
Report Number: IOJ1122

Sampled: 10/14/05
Received: 10/14/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1122-02 (WL025 - Soil)									
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	5J18102	5.1	10	9900	1	10/18/05	10/24/05	
Antimony	EPA 6010B	5J18102	0.81	10	ND	1	10/18/05	10/24/05	
Arsenic	EPA 6010B	5J18102	0.61	2.0	11	1	10/18/05	10/24/05	
Barium	EPA 6010B	5J18102	0.81	1.0	69	1	10/18/05	10/24/05	
Beryllium	EPA 6010B	5J18102	0.20	0.51	0.54	1	10/18/05	10/24/05	
Boron	EPA 6010B	5J18102	1.0	5.1	3.5	1	10/18/05	10/24/05	J
Cadmium	EPA 6010B	5J18102	0.20	0.51	0.47	1	10/18/05	10/24/05	J
Chromium	EPA 6010B	5J18102	0.30	1.0	15	1	10/18/05	10/24/05	
Cobalt	EPA 6010B	5J18102	0.30	1.0	4.5	1	10/18/05	10/24/05	
Copper	EPA 6010B	5J18102	0.20	2.0	9.2	1	10/19/05	10/24/05	
Iron	EPA 6010B	5J18102	1.5	5.1	16000	1	10/19/05	10/24/05	
Lead	EPA 6010B	5J18102	0.40	2.0	10	1	10/18/05	10/24/05	
Lithium	EPA 6010B	5J18102	0.91	6.4	17	1	10/19/05	10/24/05	
Manganese	EPA 6010B	5J18102	0.81	1.0	260	1	10/19/05	10/24/05	
Mercury	EPA 7471A	5J20062	0.0030	0.020	ND	1	10/20/05	10/20/05	
Molybdenum	EPA 6010B	5J18102	0.20	2.0	0.42	1	10/18/05	10/24/05	J
Nickel	EPA 6010B	5J18102	0.20	2.0	11	1	10/18/05	10/24/05	
Potassium	EPA 6010B	5J18102	40	51	3700	1	10/19/05	10/24/05	
Selenium	EPA 6010B	5J18102	1.0	2.0	ND	1	10/18/05	10/24/05	
Silver	EPA 6010B	5J18102	0.40	1.0	ND	1	10/18/05	10/24/05	
Sodium	EPA 6010B	5J18102	15	51	150	1	10/19/05	10/24/05	
Thallium	EPA 6010B	5J18102	0.81	10	1.9	1	10/18/05	10/24/05	J
Vanadium	EPA 6010B	5J18102	0.30	1.0	27	1	10/18/05	10/24/05	
Zinc	EPA 6010B	5J18102	1.5	5.1	53	1	10/18/05	10/24/05	
Zirconium	EPA 6010B	5J18102	1.5	25	1.6	1	10/18/05	10/31/05	J

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Michele Harper
Project Manager

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MWH-San Diego
9444 Farnham Street, Suite 300
San Diego, CA 92123
Attention: Lisa J. Tucker

Project ID: Ash samples - RFI
Boeing SSFL
Report Number: IOJ1122

Sampled: 10/14/05
Received: 10/14/05

METALS

Analyte	Rev Qual	Qual Code	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1122-03 (WL026 - Soil)											
Reporting Units: mg/kg dry											
Aluminum			EPA 6010B	5J18102	5.0	10	11000	1	10/18/05	10/24/05	
Antimony	u		EPA 6010B	5J18102	0.81	10	ND	1	10/18/05	10/24/05	
Arsenic			EPA 6010B	5J18102	0.60	2.0	4.9	1	10/18/05	10/24/05	
Barium			EPA 6010B	5J18102	0.81	1.0	100	1	10/18/05	10/24/05	
Beryllium			EPA 6010B	5J18102	0.20	0.50	0.62	1	10/18/05	10/24/05	
Boron	x		EPA 6010B	5J18102	1.0	5.0	3.2	1	10/18/05	10/24/05	J
Cadmium			EPA 6010B	5J18102	0.20	0.50	0.62	1	10/18/05	10/24/05	
Chromium			EPA 6010B	5J18102	0.30	1.0	17	1	10/18/05	10/24/05	
Cobalt			EPA 6010B	5J18102	0.30	1.0	5.3	1	10/18/05	10/24/05	
Copper			EPA 6010B	5J18102	0.20	2.0	13	1	10/19/05	10/24/05	
Iron			EPA 6010B	5J18102	1.5	5.0	17000	1	10/19/05	10/24/05	
Lead			EPA 6010B	5J18102	0.40	2.0	17	1	10/18/05	10/24/05	
Lithium			EPA 6010B	5J18102	0.91	6.3	20	1	10/19/05	10/24/05	
Manganese			EPA 6010B	5J18102	0.81	1.0	340	1	10/19/05	10/24/05	
Mercury	x		EPA 7471A	5J20115	0.0030	0.020	0.0031	1	10/20/05	10/21/05	J
Molybdenum	x		EPA 6010B	5J18102	0.20	2.0	0.34	1	10/18/05	10/24/05	J
Nickel			EPA 6010B	5J18102	0.20	2.0	12	1	10/18/05	10/24/05	
Potassium			EPA 6010B	5J18102	40	50	5400	1	10/19/05	10/24/05	
Selenium	u		EPA 6010B	5J18102	1.0	2.0	ND	1	10/18/05	10/24/05	
Silver	u		EPA 6010B	5J18102	0.40	1.0	ND	1	10/18/05	10/24/05	
Sodium			EPA 6010B	5J18102	15	50	180	1	10/19/05	10/24/05	
Thallium	x		EPA 6010B	5J18102	0.81	10	1.8	1	10/18/05	10/24/05	J
Vanadium			EPA 6010B	5J18102	0.30	1.0	32	1	10/18/05	10/24/05	
Zinc			EPA 6010B	5J18102	1.5	5.0	67	1	10/18/05	10/24/05	
Zirconium	u		EPA 6010B	5J18102	1.5	25	ND	1	10/18/05	10/31/05	

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Michele Harper
Project Manager

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MWH-San Diego
9444 Farnham Street, Suite 300
San Diego, CA 92123
Attention: Lisa J. Tucker

Project ID: Ash samples - RFI
Boeing SSFL
Report Number: IOJ1122

Sampled: 10/14/05
Received: 10/14/05

METALS

Analyte	Raw Qual	Qual Code	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1122-04 (WL027 - Soil)											
Reporting Units: mg/kg dry											
Aluminum			EPA 6010B	5J18102	5.1	10	12000	1	10/18/05	10/24/05	
Antimony	u		EPA 6010B	5J18102	0.81	10	ND	1	10/18/05	10/24/05	
Arsenic			EPA 6010B	5J18102	0.61	2.0	3.6	1	10/18/05	10/24/05	
Barium			EPA 6010B	5J18102	0.81	1.0	82	1	10/18/05	10/24/05	
Beryllium	x		EPA 6010B	5J18102	0.20	0.51	0.45	1	10/18/05	10/24/05	J
Boron	u		EPA 6010B	5J18102	1.0	5.1	ND	1	10/18/05	10/24/05	
Cadmium			EPA 6010B	5J18102	0.20	0.51	0.54	1	10/18/05	10/24/05	
Chromium			EPA 6010B	5J18102	0.30	1.0	18	1	10/18/05	10/24/05	
Cobalt			EPA 6010B	5J18102	0.30	1.0	5.4	1	10/18/05	10/24/05	
Copper			EPA 6010B	5J18102	0.20	2.0	8.9	1	10/19/05	10/24/05	
Iron			EPA 6010B	5J18102	1.5	5.1	19000	1	10/19/05	10/24/05	
Lead			EPA 6010B	5J18102	0.41	2.0	12	1	10/18/05	10/24/05	
Lithium			EPA 6010B	5J18102	0.91	6.4	28	1	10/19/05	10/24/05	
Manganese			EPA 6010B	5J18102	0.81	1.0	350	1	10/19/05	10/24/05	
Mercury	x		EPA 7471A	5J20115	0.0030	0.020	0.011	1	10/20/05	10/21/05	J
Molybdenum	x		EPA 6010B	5J18102	0.20	2.0	0.27	1	10/18/05	10/24/05	J
Nickel			EPA 6010B	5J18102	0.20	2.0	12	1	10/18/05	10/24/05	
Potassium			EPA 6010B	5J18102	41	51	3900	1	10/19/05	10/24/05	
Selenium	u		EPA 6010B	5J18102	1.0	2.0	ND	1	10/18/05	10/24/05	
Silver	u		EPA 6010B	5J18102	0.41	1.0	ND	1	10/18/05	10/24/05	
Sodium			EPA 6010B	5J18102	15	51	86	1	10/19/05	10/24/05	
Thallium	x		EPA 6010B	5J18102	0.81	10	2.2	1	10/18/05	10/24/05	J
Vanadium			EPA 6010B	5J18102	0.30	1.0	37	1	10/18/05	10/24/05	
Zinc			EPA 6010B	5J18102	1.5	5.1	61	1	10/18/05	10/24/05	
Zirconium	x		EPA 6010B	5J18102	1.5	25	2.4	1	10/18/05	10/31/05	J

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2/2/2007

Del Mar Analytical, Irvine
Michele Harper
Project Manager

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San Diego, CA 92123
Attention: Lisa J. Tucker

Project ID: Ash samples - RFI
Boeing SSFL
Report Number: IOJ1122

Sampled: 10/14/05
Received: 10/14/05

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ1122-05 (WL028 - Solid) Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	5J18102	10	20	4400	2	10/18/05	10/24/05	
Antimony	EPA 6010B	5J18102	1.6	20	ND	2	10/18/05	10/24/05	RL-1
Arsenic	EPA 6010B	5J18102	1.2	4.0	ND	2	10/18/05	10/24/05	RL-1
Barium	EPA 6010B	5J18102	1.6	2.0	130	2	10/18/05	10/24/05	
Beryllium	EPA 6010B	5J18102	0.40	1.0	ND	2	10/18/05	10/24/05	RL-1
Boron	EPA 6010B	5J18102	2.0	10	48	2	10/18/05	10/24/05	
Cadmium	EPA 6010B	5J18102	0.40	1.0	ND	2	10/18/05	10/24/05	RL-1
Chromium	EPA 6010B	5J18102	0.60	2.0	6.1	2	10/18/05	10/24/05	
Cobalt	EPA 6010B	5J18102	0.60	2.0	1.6	2	10/18/05	10/24/05	RL-1, J
Copper	EPA 6010B	5J18102	0.40	4.0	15	2	10/19/05	10/24/05	
Iron	EPA 6010B	5J18102	3.0	10	5300	2	10/19/05	10/24/05	
Lead	EPA 6010B	5J18102	0.80	4.0	33	2	10/18/05	10/24/05	
Lithium	EPA 6010B	5J18102	1.8	13	7.6	2	10/19/05	10/24/05	RL-1, J
Manganese	EPA 6010B	5J18102	1.6	2.0	220	2	10/19/05	10/24/05	
Mercury	EPA 7471A	5J20115	0.0030	0.020	ND	1	10/20/05	10/21/05	
Molybdenum	EPA 6010B	5J18102	0.40	4.0	ND	2	10/18/05	10/24/05	RL-1
Nickel	EPA 6010B	5J18102	0.40	4.0	9.3	2	10/18/05	10/24/05	
Potassium	EPA 6010B	5J18102	80	100	17000	2	10/19/05	10/24/05	
Selenium	EPA 6010B	5J18102	2.0	4.0	ND	2	10/18/05	10/24/05	RL-1
Silver	EPA 6010B	5J18102	0.80	2.0	ND	2	10/18/05	10/24/05	RL-1
Sodium	EPA 6010B	5J18102	30	100	1200	2	10/19/05	10/24/05	
Thallium	EPA 6010B	5J18102	1.6	20	ND	2	10/18/05	10/24/05	RL-1
Vanadium	EPA 6010B	5J18102	0.60	2.0	11	2	10/18/05	10/24/05	
Zinc	EPA 6010B	5J18102	3.0	10	57	2	10/18/05	10/24/05	
Zirconium	EPA 6010B	5J18102	3.0	50	ND	2	10/18/05	10/31/05	RL-1

PM Rwl

1/25/06

2/22/06

Del Mar Analytical, Irvine
Michele Harper
Project Manager

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