### **APPENDIX G**

### Section 52

Arroyo Simi Sediment, February 27, 2009 MEC<sup>X</sup> Data Validation Report



# DATA VALIDATION REPORT

## Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ISB3201

Prepared by

MEC<sup>X</sup>, LP 12269 East Vassar Drive Aurora, CO 80014

#### I. INTRODUCTION

Task Order Title: Contract Task Order:	Boeing SSFL NPDES 1261.100D.00
Sample Delivery Group:	ISB3201
Project Manager:	B. Kelly
Matrix:	Soil
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine

#### Table 1. Sample Identification

Client ID	Laboratory ID	aboratory ID Sub-Laboratory ID Matrix Collected		Collected	Method	
Arroyo Simi-FP	ISB3201-01	, , , , , , , , , , , , , , , , , , ,		02/29/09 0930	SM4500-NH3-D	

#### II. Sample Management

No anomalies were observed regarding sample management. The samples were received at TestAmerica-Irvine within the temperature limit of  $4 \pm 2^{\circ}$ C. According to the case narrative for this SDG, the samples were received intact. As the sample was couriered to TestAmerica-Irvine, custody seals were not required. If necessary, the client ID was added to the sample result summary by the reviewer.

Qualifie	r Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
Ν	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

#### Data Qualifier Reference Table

Qualifier	Organics	Inorganics			
н	Holding times were exceeded.	Holding times were exceeded.			
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect			
С	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.			
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.			
В	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.			
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.			
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.			
Е	Not applicable.	Duplicates showed poor agreement.			
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.			
А	Not applicable.	ICP Serial Dilution %D were not within control limits.			
Μ	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.			
Т	Presumed contamination as indicated by the trip blank results.	Not applicable.			
+	False positive – reported compound was not present.	Not applicable.			
-	False negative – compound was present but not reported.	Not applicable.			
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.			
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.			
?	TIC identity or reported retention time has been changed.	Not applicable.			

#### **Qualification Code Reference Table**

#### **Qualification Code Reference Table Cont.**

D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
Ρ	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
DNQ	The reported result is above the method detection limit but is less than the reporting limit.	The reported result is above the method detection limit but is less than the reporting limit.
*11, *111	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

#### III. Method Analyses

#### A. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks Date Reviewed: April 2, 2009

The sample listed in Table 1 for these analyses was validated based on the guidelines outlined in the *MEC<sup>X</sup>* Data Validation Procedure for General Minerals (DVP-6, Rev. 0), Standard Method *SM4500NH3-D*, and the National Functional Guidelines for Inorganic Data Review (10/04).

- Holding Times: The analytical holding time, 28 days from collection, was met.
- Calibration: Calibration criteria were met. Initial calibration r<sup>2</sup> value was ≥0.995 and all initial and continuing calibration recoveries were within 90-110%.
- Blanks: Method blanks and CCBs had no applicable detects.
- Blank Spikes and Laboratory Control Samples: The recovery was within laboratoryestablished QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy was evaluated based on LCS results.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. Any detects reported below the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.



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MWH-Pasadena/Boeing 618 Michillinda Avenue, Suite 20 Arcadia, CA 91007 Attention: Bronwyn Kelly	0			ediment Arroy SFL NPDES	o Simi-Fro	ontier Park	Sampled:	02/27/09 02/27/09	
		IN	ORGA	NICS					
Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISB3201-01 (Arroyo S Reporting Units: %	Simi-FP - Soil) - cont.								
Percent Moisture 💥	EPA 160.3	9C05161	0.10	0.10	19	1	03/05/09	03/05/09	
Sample ID: ISB3201-01 (Arroyo S	Simi-FP - Soil)								
Reporting Units: mg/kg Ammenia-N J/DNQ	SM4500NH3-D, MOL	0.9C06125	2.0	5.0	4.0	0.998	03/06/09	03/06/09	J

## LEVEL IV

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\*Analysis not validated

**TestAmerica** Irvine

Joseph Doak Project Manager

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