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Date: July 13, 2016

To: Rob Ede

Hahn and Associates Inc.

From: Jeanne Peterson

Sr. Data Validator, AQA

Subject: Data Validation

Siltronic RI - Doane Creek

ACZ Laboratories, Inc. Project ID L29850 (A6D0013)

SUMMARY

Level III data validation was performed on the data for six soil samples prepared and analyzed with approved procedures using method SM 4500-CN M (thiocyanate). The samples were prepared by Apex Laboratories, and the leachates were submitted to ACZ Laboratories, Inc. (ACZ) for analysis. Data were reported for all requested analytes.

The analytical data were evaluated in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999) and the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (February 1994) (NFG).

In general, the data are valid as reported. No sample data were rejected. No other qualifiers were applied to the data as specified in the Data Qualifiers section below.

See attached data validation spreadsheets for supporting documentation on the data review and validation.





SAMPLES

The samples included in this validation are listed below.

Sample ID	ACZ Laboratory ID	APEX Laboratory ID	Matrix	
5237-160331-NDP-SED003	L29850-01	A6D0013-02	Leachate	
5237-160331-NDP-SED002	L29850-02	A6D0013-04	Leachate	
5237-160331-NDP-SED001	L29850-03	A6D0013-06	Leachate	
5237-160331-NDP-SED005	L29850-04	A6D0013-08	Leachate	
5237-160331-NDP-SED004	L29850-05	A6D0013-10	Leachate	
5237-160331-NDP-EMB001	L29850-06	A6D0013-12	Leachate	

DATA QUALIFIERS (see following sections for detailed explanations)

No qualifiers were applied to the sample results in this data package.

DISCUSSION

Sample Shipping/Receiving

All COC, analysis request, and sample receipt documentation was complete and correct.

Holding Times and Preservation

The samples were properly preserved and analyzed within the prescribed holding times. It should be noted that the leachate preparation information was not included in the data package.

Calibration

All initial and continuing calibration acceptance criteria were met.

Blanks

The target analyte was not detected in the calibration blanks.





Laboratory Control Sample (LCS)

The LCS analysis met laboratory acceptance criteria.

Matrix Spike (MS)

The MS analysis met laboratory acceptance criteria.

Laboratory Duplicate

The laboratory duplicate analysis met all QC acceptance criteria.

Field Duplicate

A field duplicate was not collected with the samples in this data package.

Reporting Limits

All reporting limits were properly reported. The samples were not diluted.

Other QC

No other specific issues that affect data quality were identified.

Hahn Data Validation Summary Worksheet

SDG#: L29850_A6D0013	Laboratory: ARI			Validator: Jeanne Peterson				Validation Date: 06/06/2016					
Site: Siltronic RI - Doane Creek	COC#: NA		1					Level: II	⊠ III				
Matrix: Leachate	# of Samples: 6			king docs presen	t: See sa	ample receipt and	log-in docume	ntation					
COCs present: Yes		COCs signed: Yes			COCs dated: Yes				Sample Container Integrity: OK				
Analyses: VOCs SVOCs PAHs GRO DRO Pests PCBs Metals Gen Chem Cyanid								'yanide					
Degreested Analyses Not Deposited													
Requested Analyses Not Reported Client Sample ID Lab Sample ID Analysis								omments					
None		3 23.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3											
					+								
			Hold Time	/Droso	rvation Outlie	- MG							
Client Sample ID	Lah	Sample ID	Analysis	Pres	Colle	ction	Preparation	Analysis	Analysis	Analysis			
None	Lau	o Sample 1D Trialysis		110	" Da	te	Date	Date	<3X HT	≥3X HT			
None													
Comments: Samples collected 3	2/21				<u> </u>					ı			
Cooler temps OK. Samples pres	Cooler temps OK. Samples preserved.												

Hahn Level III General Chemistry Worksheet

SDG: L29850	Matrix: Leachate	Lab Sample IDs: L29850-01 thru -06
Method/Batch #s: SM 4500-CN M (thiocya	nate)/WG401370	

(80-120%) (80-120%) ≤20%

Analyte (outliers)	(90-110%) Calibration					Method		LCS	MS	Lab				
	r ≥0.995	ICV	CCV	ICB	ССВ	5X CB	Blank	5X MB	%R	%R	Dup RPD			
None	✓	✓	✓	✓	✓	NA	NA	NA	✓	NA	✓			

Comments: HTs OK. Analyzed 4/13.

MB, LCS, L29851-2MS & Dup and L29851-6 MS & Dup