

LABORATORY DATA CONSULTANTS, INC.

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Northgate Environmental Management, Inc.

November 13, 2009

1100 Quail Street Ste. 102 New Port Beach, CA 92660 ATTN: Ms. Cindy Arnold

SUBJECT: Tronox LLC Facility, 2009 Phase B Investigation, Henderson,

Nevada, Data Validation

Dear Ms. Arnold,

Enclosed is the revised validation report for the fraction listed below. This SDG was received on October 28, 2009. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 21844:

SDG#

Fraction

TRX09100150

Organic Acids

The data validation was performed under Stage 4 guidelines. The analyses were validated using the following documents, as applicable to each method:

- Standard Operating Procedures (SOP) 40, Data Review/Validation, BRC 2009
- Quality Assurance Project Plan Tronox LLC Facility, Henderson Nevada, June 2009
- NDEP Guidance, May 2006
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Please feel free to contact us if you have any questions.

Sincerely,

Erlinda T. Rauto

Operations Manager/Senior Chemist

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Tronox LLC Facility, 2009 Phase B Investigation, Henderson, Nevada Data Validation Reports LDC #21844

Organic Acids



LDC Report# 21844A47

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Tronox LLC Facility, 2009 Phase B Investigation,

Henderson, Nevada

Collection Date: September 24 through September 30, 2009

LDC Report Date: November 12, 2009

Matrix: Water

Parameters: Organic Acids

*Validation Level: Stage 4

Laboratory: Alpha Analytical, Inc.

Sample Delivery Group (SDG): TRX09100150

Sample Identification

M-89B

TR-2B

TR-4B

M-89BMS

M-89BMSD

^{*}Changed report to Stage 4

Introduction

This data review covers 5 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per HPLC Method for Organic Acids.

This review follows the Standard Operating Procedures (SOP) 40, Data Review/Validation (BRC 2009), the Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada (June 2009), NDEP guidance (May 2006), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

- J+ Data are qualified as estimated, with a high bias likely to occur. False positives or false negatives are unlikely to have been reported.
- J- Data are qualified as estimated, with a low bias likely to occur. False positives or false negatives are unlikely to have been reported.
- J Data are qualified as estimated; it is not possible to assess the direction of the potential bias. False positives or false negatives are unlikely to have been reported.
- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- R Data are qualified as rejected. There is a significant potential for the reporting of false negatives or false positives.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- B The analytical result may be a false positive totally attributable to blank contamination. This qualifier is applicable to radiochemistry analysis only.
- JB The analytical result may be biased high and partially attributable to blank contamination. This qualifier is applicable to radiochemistry analysis only.
- JK The analytical result is an estimated maximum possible concentration (EMPC).
- X The analytical result is not used for reporting because a more accurate and precise result is reported in its place.
- J-TDS The analytical result is estimated based on failure of the Total Dissolved Solids (TDS) correctness check performed in accordance with the Standard Method 1030E.
- J-CAB The analytical result is estimated based on failure of the cation-anion balance correctness check performed in accordance with Standard Method 1030E.
- J-TDS & CAB The analytical result is unreliable based on the failure of the cation-anion balance and TDS correctness check performed in accordance with standard Method 1030E.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990.

b. Calibration Verification

Calibration verification was performed at the required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 30.0% for all compounds.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No organic acids were found in the method blanks.

No field blanks were identified in this SDG.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were not required by the method.

b. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

All target compound identifications were within validation criteria.

VI. Project Quantitation Limit

All project quantitation limits were within validation criteria.

All compounds reported below the PQL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG TRX09100150	All compounds reported below the PQL	J (all detects)	A

VII. System Performance

The system performance was acceptable.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Tronox LLC Facility, 2009 Phase B Investigation, Henderson, Nevada Organic Acids - Data Qualification Summary - SDG TRX09100150

SDG	Sample	Compound	Flag	A or P	Reason (Code)
TRX09100150	M-89B TR-2B TR-4B	All compounds reported below the PQL	J (all detects)	А	Project Quantitation Limit (PQL) (sp)

Tronox LLC Facility, 2009 Phase B Investigation, Henderson, Nevada Organic Acids - Laboratory Blank Data Qualification Summary - SDG TRX09100150

No Sample Data Qualified in this SDG

Tronox LLC Facility, 2009 Phase B Investigation, Henderson, Nevada Organic Acids - Field Blank Data Qualification Summary - SDG TRX09100150

No Sample Data Qualified in this SDG

Tronox Northgate Henderson

LDC #: 21844A47	VALIDATION COMPLETENESS WORKSHEET
SDG #: TRX09100150	Stage 28 4
Laboratory: Alpha Analytical, Inc	<u> </u>

Date: 10/29/69
Page: 10/1
Reviewer: 500
2nd Reviewer: 4

METHOD: HPLC Organic Acids (HPLC Method)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
1.	Technical holding times	A	Sampling dates: 9/24 - 30/69
lla.	Initial calibration	A	r~ /
ПР	Calibration verification/ICV	A	CCV 6 20 7 101 £ 30 %
IÐ.	Blanks	A	
IVa.	Surrogate recovery	N	Not regid.
IVb.	Matrix spike/Matrix spike duplicates	A	
IVc.	Laboratory control samples	A	us
V	Target compound identification	N A	
VI.	Compound Quantitation and CRQLs	NA	
VII.	System Performance	AK	
VIII.	Overall assessment of data		
IX.	Field duplicates	N	
Χ.	Field blanks	N	

Note:

A = Acceptable
N = Not provided/applicable SW = See worksheet

ND = No compounds detected R = Rinsate FB = Field blank

D = Duplicate TB = Trip blank EB = Equipment blank

Validated Samples:

WEALT

				
1	M-89B	11	21	31
2	TR-2B	12	22	32
3	TR-4B	13	23	33
4	M-89BMS	14	24	34
5	M-89BMSD	15	25	35
6	MOLK - 22794	16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

Notes:	·	. <u> </u>	 	
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LDC#: 21844 A47 SDG#: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 7 Reviewer: 5 2nd Reviewer: 6

Method: GC HPLC

Method:GC HPLC			_:-	
Validation Area	Yes	No	NA	Findings/Comments
Technical holding times				
All technical holding times were met.				
Cooler temperature criteria was met.			02.0000000000	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/		<u> </u>	
Were all percent relative standard deviations (%RSD) < 20%?				
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	/			
Were the RT windows properly established?		<u> </u>		
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?				
Were all the retention times within the acceptance windows?	$\bot \angle$			
V. Blanks	1		**************************************	
Was a method blank associated with every sample in this SDG?			<u> </u>	
Was a method blank analyzed for each matrix and concentration?				
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.				
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?			/	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?				
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil Water.				
Was a MS/MSD analyzed every 20 samples of each matrix?				
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?				
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?				
Was an LCS analyzed per extraction batch?				
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?				
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/	1	and the second s
Were the performance evaluation (PE) samples within the acceptance limits?			/	1

LDC#: 21 4 44 A 97 SDG#: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: 3W
2nd Reviewer: ______

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification	<u> </u>			
Were the retention times of reported detects within the RT windows?				
XI. Compound quantitation/CRQLs	<u> </u>			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?				
XII. System performance				
System performance was found to be acceptable.				
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.				
XIV: Field duplicates				
Field duplicate pairs were identified in this SDG.			<u> </u>	
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			7	

LDC# 21844 A 47 SDG# C21

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

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HPLC METHOD: 4-Chlorobenzenesulfonic acid Parameter:

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Date	Detector	Compound	Conc	Area	
			(mdd)		
6/02 to 6/03/09	ΛΩ	4-Chlorobenzenesulfonic acid	0.025	105332	
	HPLC 3		0.050	201649	
			0.100	464100	
			0.250	1152183	
			0.500	2262016	1
			1.000	4485504	
			1.500	6636299	
			2.000	8851547	

6	Jean Caper.					
Constant				-4.19374E-003	11 3	-0.004194
Y Est				0.00735		
R Squared		:		0.999917	12	0.999917
i 		!		8.00000		
				00000'9		<u> </u>
	!					
X Coefficient(s)			2.254E-007	-9.41E-015	= q	2.254E-007

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Continuing Calibration Results Verification VALIDATION FINDINGS WORKSHEET

Page: 1 of / 2nd Reviewer: Reviewer:

> HPLC METHOD: GC_

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF CF = A/C

Where: ave. CF = initial calibration average CF CF = continuing calibration CF A = Area of compound C = Concentration of compound

# Standard ID 1 84647001.500				Donottod			
				кепопе	Recalcillated	Reported	Recalculated
8469700	Calibration ID Date	Compound	Average CF(Icat)/ CCV Conc.	CF/Conc. CCV	CF/Conc.	ď,	ģ
	11.500	4-0854	0,5	0,497	0 497	99.4	P 66
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2 Df 729001, D33	601	\rightarrow	1.00	0,915	0.915	4.16	918
	10/20/04						
3					٠		
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Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10,0% of the recalculated results.

LDC#: 2/844 A47 SDG # See Cone

Matrix Spike/Matrix Spike Duplicates Results Verification VALIDATION FINDINGS WORKSHEET

Page:__ Reviewer:_ 2nd Reviewer:_

METHOD: GC / HPLC
The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using

the following calculation; %Recovery = 100 * (SSC - SC)/SA

Where

SC = Sample concentration

RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100

SSC = Spiked sample concentration SA = Spike added MS = Matrix spike

MS/MSD samples:

MSD = Matrix spike duplicate

Č		Added	Conc.	Spike	Spike Sample Concentration	Matrix	Matrix spike	Matrix Spik	Matrix Spike Duplicate	MS/MSD	SD
Dunodwoo		2/2	1 2/1	Ý Ž	7	Percent	Percent Recovery	Percent	Percent Becovery		
· · · · · · · · · · · · · · · · · · ·	MS	MSD	. 1	MS	MSD	Reported	Becelo		- CCOTEIL J	O'A	- 11
Gasoline (8015)	<u>-</u>						1000	Ve ported	Kecalc.	Reported	Recalc.
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)	6										
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)	(0,										
4-CBSA (HPW)	0.1	1.0	0	0 126	0,925	200	000	,			
					2	2	21.	43	2.3	0.	o'
Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings workshoot for list of	x Spike/Matrix	Spike Dup	icates finding	Workshoot fr							
of the recalculated results.			i i	N N N N N N N N N N N N N N N N N N N	v iist or qualit	cations and a	sociated sam	ples when rec	orted results	do not agree	within 10 0%
											77 77 77 77 77 77 77 77 77 77 77 77 77

LDC#: 21844 A47 See Such SDG#

Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification VALIDATION FINDINGS WORKSHEET

Reviewer: DK

2nd Reviewer: Page:

> GC HPLC METHOD:

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration SA = Spike added Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery SC ≈ Concentration

> LCS -22794 LCS/LCSD samples:_

	<u>~</u>	Spike	Spiked	Sample	רל	rcs	TCSD	QS	รวา	LCS/LCSD
Compound	W)	(L)	(X)		Percent	Percent Recovery	Percent Recovery	Recovery	_ ex	RPD
	LCS	CSD	FCS T	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
4- CBSA (HPLC)	2'0	NA	0,514	ΛĄ	103	403				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 1 of

Reviewer: 2nd Reviewer:

METHOD:

- GC _ HPLC

X M N/A N N

Were all recalculated results for detected target compounds within 10% of the reported results? Were all reported results recalculated and verified for all level IV samples?

Concentration≖

(A)(Fv)(Dr)

Area or height of the compound to be measured Final Volume of extract (RF)(Vs or Ws)(%S/100)

Example;

RF= Average response factor of the compound A= Area or height of the Final Volume of a Df= Dilution Factor

Vs= Initial volume of the sample Ws= Initial weight of the sample %S= Percent Solid in the initial calibration

Compound Name Sample ID.

Concentration =

Qualifications	
Recalculated Results Concentrations	
Reported	
Compound	
Sample 1D	comments:

SAMPCALew.wpd