February 18, 2008

Mr. Mark Riggle
Project Manager
Voluntary Cleanup Section
Texas Commission on Environmental Quality
Mail Code 221
12118 North IH 35, Building D
Austin, Texas 78753
P

Project No. 0078854

Subject: First Quarter 2008 Monitoring Data Transmittal

Former Cameron Iron Works Facility, Houston, Texas

VCP No. 221

Dear Mr. Riggle:

On behalf of Cameron International Corporation (Cameron), Environmental Resources Management (ERM) is providing this transmittal of ground water data to the Texas Commission on Environmental Quality (TCEQ) for your records. This report presents a summary of the actions undertaken in responses to an apparent movement of the plume in some areas downgradient of the Former Cameron Iron Works Facility (the facility). A summary table (Table 1) has been created to convey this information, as well as the future course of action for each area.

Eight ground water samples were collected on January 21 and 22, 2008 at monitor well locations (MW-70, MW-78, MW-79, MW-93, MW-96, MW-125, MW-126, and MW-166) and analyzed for the site-specific constituents of concern (COCs). These sample locations are located in the residential neighborhood south of the facility. This quarterly sampling event was performed at MW-70, MW-78, MW-79, MW-93, MW-96, MW-125, and MW-126, because the results from October 2007 exceeded the method quantitation limits (MQLs). MW-166 was sampled to delineate elevated ground water concentrations at MW-96.

A change to the list of "trigger wells" (defined as a boundary monitor well) was submitted to the TCEQ in a letter dated February 18, 2008 due to apparent plume movement in the areas of MW-78 and MW-79, MW-96, and MW-126. The proposed replacement trigger wells (MW-74, MW-139, MW-146, MW-167, and MW-168) will be sampled semiannually and abide by the same trigger components set forth for MW-78, MW-79, MW-96, and MW-126.

A summary of the ground water analytical data for the First Quarter 2008 Sampling Event is presented in Table 2. The data usability summaries and laboratory reports are provided as Attachment 2. The ground water analytical results were compared to the response action items outlined in the *Response Action Plan* (RAP) dated August 28, 2003 and summarized in Table 1.

Environmental Resources Management

15810 Park Ten Place Suite 300 Houston, Texas 77084-5140 (281) 600-1000 (281) 600-1001 (fax)



February 18, 2008 Mr. Mark Riggle Texas Commission on Environmental Quality Page 2

#### Conclusion

The following response actions will be initiated to meet the requirements of the RAP:

- COC concentrations will be monitored at the new trigger wells (MW-132, MW-139, MW-146, MW-167, and MW-168) on a semiannual basis;
- COC concentrations will be monitored at MW-70, MW-93, and MW-125 on a quarterly basis;
- In the areas of MW-78, MW-93, and MW-125, monitoring/injection wells (MW-150 though MW-155 and IW-47 through IW-52) will be monitored for the presence of permanganate; and
- The application of additional permanganate injections in the vicinity of MW-78, MW-93, and MW-125 is scheduled to be completed within the first quarter of 2008.

The next quarterly sampling event will be in July 2008 because a regularly scheduled semiannual event is scheduled for April 2008.

Please contact Mr. Ted Fasting of Cameron International Corporation at (713) 513-3325 or me at (281) 600-1074 with any questions or comments.

Sincerely,

**Environmental Resources Management** 

Gregory J. Wheeler, P.G.

GJW/skd Attachments

cc: Marsha Hill, Texas Commission on Environmental Quality, Region X II
Ted Fasting, Cameron International Corporation
Bruce Himmelreich, Cameron International Corporation (without attachments)
Clayton Trier, Stablewood Property Owners Association
Robin Morse, Crain, Caton, and James, P.C.
James Elkins III, Houston Trust Company

Paul Stefan, Environmental Resources Management (Houston)

#### **Tables**

Attachment 1

February 18, 2008 Project No. 0078854

Houston, Texas 77084 (281) 600-1000

#### TABLE 1

#### Summary of Response Action Plan Implementation First Quarter 2008 Monitoring Data Transmittal

#### Former Cameron Iron Works Facility Houston, Texas

Well	COCs elevated above MQL	COCs elevated above PCL	Need for Additional Notification (Yes or No)	In-situ Treatment (Yes or No)	Sampling Frequency
	1,1-dichloroethane 1.1-dichloroethene				
MW-70	cis-1,2-dichloroethane				
	trichloroethene vinyl chloride	trichloroethene vinyl chloride	no (a)	no (b)	Quarterly
MW-78	1,1-dichloroethane				
10100-70	1,1-dichloroethene	1,1-dichloroethene	no (a)	yes (c)	Semiannually (d)
MW-79	1,1-dichloroethane				
10100-79	1,1-dichloroethene	1,1-dichloroethene	no (a)	yes (c)	Semiannually (d)
MW-93	tetrachloroethene	tetrachloroethene	no (a)	yes (c)	Quarterly
MW-96	1,1-dichloroethene	1,1-dichloroethene	no (a)	yes (c)	Semiannually (d)
MW-125	tetrachloroethene	tetrachloroethene	no (a)	yes (c)	Quarterly
	1,1-dichloroethane				_
	1,1-dichloroethene				
MW-126	cis-1,2-dichloroethane	1,1-dichloroethene			
	tetrachloroethene	tetrachloroethene			
	trichloroethene	trichloroethene	no (a)	yes (c)	Semiannually (d)

#### NOTES:

COCs = Chemicals of Concern

MQL = Method Quantitation Limit

PCL = Protective Concentration Level

- (a) Properties in the vicinity of the affected ground water have been previously notified.
- (b) MW-70 will continue to be monitored on a quarterly basis until the reported concentration of trichloroethene and vinyl chloride are confirmed with four quarters of reported concentrations above the critical PCL.
- (c) Injection wells located in this area have been injected with sodium permanganate during 2007. This area is being gauged regularly for the presence of permanganate. If there is no presence of permanganate in this area, additional permanganate will be injected.
- (d) The existing trigger wells have been replaced and will be sampled on a semiannual basis. The new trigger wells (MW-74,
- MW-139, MW-146, MW-167, and MW-168) will also be sampled semiannually unless results exceed specific triggers.

#### TABLE 2

#### Summary of Monitor Well Ground Water Data for Trigger Wells First Quarter 2008 Monitoring Data Transmittal

#### Former Cameron Iron Works Facility Houston, Texas

Location: MM 70

1/1/1/70

1/1/1/ 70

			Location:	MW-70	MW-78	MW-79	MW-93
		Critical	Depth: (b)	25	26	33	43
Constituent	MQL	PCLs (a)	Date:	1/22/2008	1/21/2008	1/21/2008	1/21/2008
1,1-Dichloroethane	0.0050	4.9	_	0.021	0.0063	0.0089	ND (0.0050)
1,1-Dichloroethene	0.0050	0.0070		0.0072	0.21	0.14	ND (0.0050)
1,2-Dichloroethane	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.0050	0.070		0.053	ND (0.0050)	0.0019 J	0.00071 J
Tetrachloroethene	0.0050	0.0050		0.0013 J	ND (0.0050)	ND (0.0050)	0.10
Trichloroethene	0.0050	0.0050		0.015	ND (0.0050)	ND (0.0050)	ND (0.0050) J
Vinyl Chloride	0.0020	0.0020		0.0031	ND (0.0020)	ND (0.0020)	ND (0.0020)
		Critical	Location:	MW-96	MW-125	MW-126	MW-166
Constituent	MOL		Depth: (b)	33 1/22/2008		<u>25</u> 1/22/2008	35
1,1-Dichloroethane	MQL 0.0050	PCLs (a) 4.9	Date: _	0.0012 J	1/21/2008 ND (0.0050)	0.0053	1/22/2008 0.0012 J
•			Г		,		
1,1-Dichloroethene	0.0050	0.0070	L	0.019	ND (0.0050)	0.0077	0.017
1,2-Dichloroethane	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.0050	0.070		ND (0.0050)	ND (0.0050)	0.023	ND (0.0050)
Tetrachloroethene	0.0050	0.0050		ND (0.0050)	0.0078	0.018	ND (0.0050)
Trichloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	<b>0.0028</b> J	ND (0.0050)
Vinyl Chloride	0.0020	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

#### NOTES:

The reported concentrations are in mg/L.

**0.0028** = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water critical PCLs.

**Bold** values exceed the MQL.

ND (0.0050) = *Not Detected* at the method quantitation limit given in parentheses.

MQL = Method Quantitation Limit.

- (a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water PCLs, Table 3, table for TRRP Rule dated June 26, 2007.
- (b) The sample depths are reported in feet below ground surface.
- J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

NAVA OO

#### **Data Usability Summaries and Laboratory Reports**

Attachment 2

February 18, 2008 Project No. 0078854

**Environmental Resources Management** 

15810 Park Ten Place, Suite 300 Houston, Texas 77084 (281) 600-1000

#### Data Usability Summary and Laboratory Report (0801487) First Quarter 2008 Monitoring Data Transmittal

Attachment 2

Former Cameron Iron Works Facility Houston, Texas

Environmental Resources Management (ERM) reviewed a laboratory analytical data package (0801487) from e-Lab Analytical, Inc. of Houston, Texas for the analysis of nine ground water samples collected on January 21 and 22, 2008 south of the Former Cameron Iron Works Site in Houston, Texas (the facility). Data were reviewed to assess conformance with the requirements of the *Review and Reporting of COC Concentration Data* TRRP-13 (December 2002), and adherence to project data quality objectives.

**Purpose of Sampling Event:** Quarterly sampling event to monitor select VOCs downgradient of the facility as a response actions triggered by the October 2008 results.

The data generated were evaluated in terms of representativeness, precision, accuracy, completeness and comparability.

Analysis requested included:

SW-846 8260B – Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS).

Data were reviewed and validated as described in the TRRP-13 Guidance Document and the results of the review/validation are discussed in this Data Usability Summary (DUS).

#### INTRODUCTION

Nine ground water samples including one duplicate ground water sample and one field blank were provided to the laboratory for analysis. Thirteen samples were analyzed for seven volatile organic compounds (VOCs) (1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride). One trip blank was provided to the laboratory but was not analyzed per ERM's request. Rinsate and equipment blanks were not provided to the laboratory for analysis. Table 2-1 lists the sample identifications cross-referenced to laboratory identifications.

#### DATA REVIEW / VALIDATION RESULTS

#### **Analytical Results**

Sample data is reported in mg/L for ground water samples. *Not Detected* results are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule. Method detection limits (MDLs) and method quantitation limits (MQLs) were also provided as part of the analytical results.

#### **Preservation and Holding Times**

The samples were evaluated for agreement with the chain-of-custody (CoC). The samples were received in the appropriate containers and in good condition with the paperwork filled out properly. Sample receipt temperatures were within the acceptance criteria of  $4 \pm 2$  °C. The samples were preserved in the field as specified in SW-846 Table 2-36. Samples were prepared and analyzed within holding times as specified in SW-846 Table 2-36.

#### **Calibrations and Tunes**

Initial and continuing calibration verification was within method acceptance limits for VOC. The LRC also documents satisfactory instrument performance calibrations (GC/MS tunes) for VOC analyses.

#### **Blanks**

VOCs were reported as Not Detected in the method blanks and the field blank.

#### **Surrogate Recoveries**

VOC sample surrogate recoveries were within the TRRP defined acceptance limits.

#### **Internal Standards**

According to the LRC, the internal standards were within method-required limits.

#### **Laboratory Control Samples**

The laboratory control sample/laboratory control sample duplicates (LCS/LCSD) recoveries met the TRRP defined acceptance limits for VOCs.

#### Matrix Spike/Matrix Spike Duplicates

Batch R59359 matrix spike/matrix spike duplicate (MS/MSD) recoveries were within the TRRP defined acceptance limits for 1,1-Dichloroethene.

VOC analysis batches R59201 and R59246 were not project related; therefore they were not assessed.

#### **Field Precision**

One field duplicate sample was collected and analyzed in this laboratory package (MW-78 / Dup-1).

Sample MW-78 and duplicate sample Dup-1 were reported as detected for 1,1-dichloroethane, and 1,1-dichloroethene. The sample/duplicate precision comparison for both samples had RPD less than the 20% acceptance criteria for the compounds listed; therefore, qualifiers were not necessary. Sample/duplicate precision calculations are included in Table 2-2.

#### **Field Procedures**

The samples were collected using documented sampling procedures.

#### **SUMMARY**

The data quality objectives and characteristics (i.e., representativeness, precision and accuracy, completeness, and comparability) for the project were met. Therefore, the ground water analytical data are useable for the purpose of providing current data on concentrations of chemicals of concern (COCs) in the ground water downgradient of the Former Cameron Iron Works Facility.

#### TABLE 2-1

#### Cross Reference Field Sample Identifications and Laboratory Identifications First Quarter 2008 Monitoring Data Transmittal

#### Former Cameron Iron Works Facility Houston, Texas

Field ID	Laboratory ID
0801487-01	MW-93
0801487-02	MW-125
0801487-03	MW-78
0801487-04	MW-79
0801487-05	Dup-1
0801487-06	MW-96
0801487-07	MW-166
0801487-08	MW-126
0801487-09	MW-70
0801487-10	FB-1
0801487-11	Trip Blank

#### TABLE 2-2

#### Field Precision First Quarter 2008 Monitoring Data Transmittal

#### Former Cameron Iron Works Facility Houston, Texas

				RPD	
Field Identification	Analyte	Sample Result	Duplicate Result	Absolute Value	Qualified
MW-78/Dup-1	1,1-dichloroethane	0.0063	0.0068	7.634	A
	1,1-dichloroethene	0.21	0.19	10.000	A

NOTES:

Results reported as mg/kg. RPD = ((SR-DR)\*200)/(SR+DR)

A = Acceptable data





January 30, 2008

Marcel St. Marie ERM Southwest, Inc. 15810 Park Ten Place Suite 300 Houston, TX 77084

Tel: (281) 600-1130 Fax: (281) 600-1001

Re: Former Cameron Iron Works Work Order: 0801487

Dear Marcel St. Marie,

e-Lab Analytical, Inc. received 11 samples on 1/23/2008 01:35 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill
Electronically approved by: Glenda H. Ramos

Lora Terrill

**VP Lab Operations** 



e.Lab Analytical, Inc.

Part of the ALS Laboratory Group

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338

Phone: (281) 530-5656 Fax: (281) 530-5887 www.elabi.com www.alsglobal.com

A Campbell Brothers Limited Company

CLIENT: ERM Southwest, Inc.

Project: Former Cameron Iron Works
Work Order: 0801487

TRRP Laboratory Data
Package Cover Page

**Date:** January 30, 2008

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c)The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;?
- R10 Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the labor in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Rechecklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [NA] This laboratory is an in-house laboratory controlled by the person responding to rule. The official sign the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this c package and is by signature affirming the above release statement is true.

Lora Terrill

**VP** Lab Operations

Lora Terrill

		Laboratory Review Ch	necklist: Reportable Data						
Lab	orato	y Name: e-Lab Analytical, Inc.	LRC Date: 01/30/2008						
Proj	ect N	ame: Former Cameron Iron Works	Laboratory Job Number: 0801487						
Rev	iewer	Name: Lora Terrill	Prep Batch Number(s): R59201, R59246,	R59359					
$\#^1$	$A^2$	Description	-	Yes	No	$NA^3$	$NR^4$	ER# <sup>5</sup>	
R1	OI	CHAIN-OF-CUSTODY (C-O-C)							
		1) Did samples meet the laboratory's standard conditions	of sample acceptability upon receipt?	X					
		2) Were all departures from standard conditions described		X					
R2	OI	SAMPLE AND QUALITY CONTROL (QC) IDENTI	FICATION						
	1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?		X						
		2) Are all laboratory ID numbers cross-referenced to the	•	X					
R3	OI	TEST REPORTS	corresponding Qc data.	21					
	01	Were all samples prepared and analyzed within holdin	g times?	X					
		2) Other than those results < MQL, were all other raw va		X					
		3) Were calculations checked by a peer or supervisor?	ides brucketed by cultoration standards.	X					
		4) Were all analyte identifications checked by a peer or s	upervisor?	X					
		5) Were sample quantitation limits reported for all analytic		X					
		6) Were all results for soil and sediment samples reported				X			
		7) Was % moisture (or solids) reported for all soil and sed				X			
		8) If required for the project, TICs reported?				X			
R4	О	SURROGATE RECOVERY DATA							
		1) Were surrogates added prior to extraction?		X					
		2) Were surrogate percent recoveries in all samples within	n the laboratory QC limits?	X					
R5	OI	TEST REPORTS/SUMMMARY FORMS FOR BLAN							
		1) Were appropriate type(s) of blanks analyzed?		X					
		2) Were blanks analyzed at the appropriate frequency?		X					
		3) Were method blanks taken through the entire analytical	al process, including preparation and, if	X					
		applicable, cleanup procedures?							
		4) Were blank concentrations < MQL?		X					
R6	OI	LABORATORY CONTROL SAMPLES (LCS):							
		1) Were all COCs included in the LCS?		X					
		2) Was each LCS taken through the entire analytical process.	edure, including prep and cleanup steps?	X					
		3) Were LCSs analyzed at the required frequency?		X					
		4) Were LCS (and LCSD, if applicable) %Rs within the la		X					
		5) Does the detectability data document the laboratory's c	capability to detect the COCs at the MDL	X					
		used to calculate the SQLs?							
D#	O.T.	6) Was the LCSD RPD within QC limits?	TO LETT (LECT) D LETT			X			
R7	OI	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPL		37					
		1) Were the project/method specified analytes included in		X				$\vdash$	
		2) Were MS/MSD analyzed at the appropriate frequency		X				$\vdash$	
		3) Were MS (and MSD, if applicable) %Rs within the lat	boratory QC limits?	X					
De	ΟĪ	4) Were MS/MSD RPDs within laboratory QC limits?		X					
R8	OI	ANALYTICAL DUPLICATE DATA  1) Were appropriate analytical duplicates analyzed for ea	ah matuin?			v			
				-		X		$\vdash$	
		2) Were analytical duplicates analyzed at the appropriate				X		$\vdash$	
R9	OI	3) Were RPDs or relative standard deviations within the	laboratory QC lillins?			Λ			
K)	OI	METHOD QUANTITATION LIMITS (MQLS):  1) Are the MQLs for each method analyte listed and inclu	ided in the laboratory data nackage?	X					
		2) Do the MQLs correspond to the concentration of the lo	• • •	X		-		$\vdash$	
		3) Are unadjusted MQLs included in the laboratory data p		X		1	1	$\vdash$	
R10	Οī	OTHER PROBLEMS/ANOMALIES	ouchuge:	Λ					
***	1) Are all known problems/anomalies/special conditions noted in this LRC and ER?			X					
		2) Were all necessary corrective actions performed for the		X			1	$\vdash$	
		3) If requested, is the justification for elevated SQLs docu		X			1	$\vdash$	
		27 11 Toquestea, 15 the justification for elevated 5QLS doct				1		$\vdash \vdash$	

<sup>1</sup> Items identified by the letter "R" should be included in the laboratory data package submitted in 0 the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

<sup>2</sup> O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

<sup>3</sup> NA = Not applicable;

<sup>4</sup> NR = Not Reviewed;

<sup>5</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

		Laboratory Review C	Checklist: Supporting Data					
Lab	orato	ry Name: e-lab Analytical, Inc	LRC Date: 01/30/2008					
Pro	ject N	Name: Former Cameron Iron Works	Laboratory Job Number: 0801487					
Rev	iewe	r Name: Lora Terrill	Prep Batch Number(s): R59201, R59246, R59	9359				
# <sup>1</sup>	$A^2$	Description		Yes	No	$NA^3$	$NR^4$	ER# <sup>5</sup>
S1		INITIAL CALIBRATION (ICAL)					l	
51	01	1) Were response factors (RFs) and/or relative response fa	actors (RRFs) for each analyte within the OC	X				
		limits?						
		2) Were percent RSDs or correlation coefficient criteria m	net?	X				1
		3) Was the number of standards recommended in the method.		X				1
		4) Were all points generated between the lowest and high		X				1
		5) Are ICAL data available for all instruments used?		X				1
		6) Has the initial calibration curve been verified using an	appropriate second source standard?	X				
S2	OI	INITIAL AND CONTINUING CALIBRATION VE						
		1) Was the CCV analyzed at the method-required frequen		X				
		2) Were percent differences for each analyte within the m		X				
		3) Was the ICAL curve verified for each analyte?		X			1	1
		4) Was the absolute value of the analyte concentration in	the inorganic CCB < MDL?			X		
S3	О	MASS SPECTRAL TUNING:						
		1) Was the appropriate compound for the method used for	r tuning?	X				
		2) Were ion abundance data within the method-required Q		X				
S4	О	INTERNAL STANDARDS (IS):						
		Were IS area counts and retention times within the method-required QC limits?						
S5								
		1) Were the raw data (e.g., chromatograms, spectral data)		X				
		2) Were data associated with manual integrations flagged		X				
S6	О	DUAL COLUMN CONFIRMATION						
		Did dual column confirmation results meet the method-re-	quired QC?			X		
S7	О	TENTATIVELY IDENTIFIED COMPOUNDS (TICS	5):					
		If TICs were requested, were the mass spectra and TIC da	ata subject to appropriate checks?			X		
S8	I	INTERFERENCE CHECK SAMPLE (ICS) RESULT	'S:					
		Were percent recoveries within method QC limits?				X		
S9	I	SERIAL DILUTIONS, POST DIGESTION SPIK						
		Were percent differences, recoveries, and the linearity wit	thin the QC limits specified in the method?	XX		X		
S10	OI	PROFICIENCY TEST REPORTS:						
		Are proficiency testing or inter-laboratory comparison res	sults on file?	X				
S11	OI	METHOD DETECTION LIMIT (MDL) STUDIES						
		1) Was a MDL study performed for each reported analyte		X				
		2) Is the MDL either adjusted or supported by the analysis	s of DCSs?	X				
S12	OI	STANDARDS DOCUMENTATION						
		Are all standards used in the analyses NIST-traceable or of	** *	X				
S13	OI	COMPOUND/ANALYTE IDENTIFICATION PROC						
		Are the procedures for compound/analyte identification de		X				
S14	OI	DEMONSTRATION OF ANALYST COMPETENCY						
		1) Was DOC conducted consistent with NELAC 5C or IS		X				
a		2) Is documentation of the analyst's competency up-to-da		X				
S15	OI	VERIFICATION/VALIDATION DOCUMENTATIO		**				
		Are all the methods used to generate the data documente	ed, verified, and validated, where applicable,	X				
		(NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?						
S16	OI	LABORATORY STANDARD OPERATING PROCE						
		Are laboratory SOPs current and on file for each method j	performed?	X				

Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

<sup>3</sup> NA = Not applicable.

NR = Not Reviewed.4

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Report							
Laboratory Name: e-Lab Analytical, Inc.	LRC Date: 01/30/2008						
Project Name: Former Cameron Iron Works Laboratory Job Number: 0801487							
Reviewer Name: Lora Terrill	Prep Batch Number(s): R59201, R59246, R59359						
ER # DESCRIPTION							
No Exceptions.							

<sup>1</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

tical, Inc.

Date: January 30, 2008

**Client:** ERM Southwest, Inc.

**Project:** Former Cameron Iron Works

Work Order: 0801487

#### **Work Order Sample Summary**

Lab Samp II	<u> Client Sample ID</u>	<b>Matrix</b>	Tag Number	<b>Collection Date</b>	<b>Date Received</b>	<u>Hold</u>
0801487-01	MW-93	Water		1/21/2008 10:05	1/23/2008 13:35	
0801487-02	MW-125	Water		1/21/2008 11:35	1/23/2008 13:35	
0801487-03	MW-78	Water		1/21/2008 14:40	1/23/2008 13:35	
0801487-04	MW-79	Water		1/21/2008 16:05	1/23/2008 13:35	
0801487-05	Dup-1	Water		1/21/2008 14:45	1/23/2008 13:35	
0801487-06	MW-96	Water		1/22/2008 10:10	1/23/2008 13:35	
0801487-07	MW-166	Water		1/22/2008 11:55	1/23/2008 13:35	
0801487-08	MW-126	Water		1/22/2008 14:15	1/23/2008 13:35	
0801487-09	MW-70	Water		1/22/2008 15:40	1/23/2008 13:35	
0801487-10	FB-1	Water		1/22/2008 17:30	1/23/2008 13:35	
0801487-11	Trip Blank	Water		1/22/2008 17:30	1/23/2008 13:35	

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

 Sample ID:
 MW-93
 Lab ID:
 0801487-01

 Collection Date:
 1/21/2008 10:05:00 AM
 Matrix:
 WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Metl	nod: <b>SW8260</b>				Analyst: PC
1,1-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/24/2008
1,1-Dichloroethene	U		0.00060	0.0050	mg/L	1	1/24/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/24/2008
cis-1,2-Dichloroethene	0.00071	J	0.00050	0.0050	mg/L	1	1/24/2008
Tetrachloroethene	0.10		0.00050	0.0050	mg/L	1	1/24/2008
Trichloroethene	U		0.00070	0.0050	mg/L	1	1/24/2008
Vinyl chloride	U		0.00060	0.0020	mg/L	1	1/24/2008
Surr: 1,2-Dichloroethane-d4	86.4			70-125	%REC	1	1/24/2008
Surr: 4-Bromofluorobenzene	99.9			72-125	%REC	1	1/24/2008
Surr: Dibromofluoromethane	98.7			71-125	%REC	1	1/24/2008
Surr: Toluene-d8	101			75-125	%REC	1	1/24/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 1 of 10

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

 Sample ID:
 MW-125
 Lab ID:
 0801487-02

 Collection Date:
 1/21/2008 11:35:00 AM
 Matrix:
 WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Method	:SW8260				Analyst: PC
1,1-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/24/2008
1,1-Dichloroethene	U		0.00060	0.0050	mg/L	1	1/24/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/24/2008
cis-1,2-Dichloroethene	U		0.00050	0.0050	mg/L	1	1/24/2008
Tetrachloroethene	0.0078		0.00050	0.0050	mg/L	1	1/24/2008
Trichloroethene	U		0.00070	0.0050	mg/L	1	1/24/2008
Vinyl chloride	U		0.00060	0.0020	mg/L	1	1/24/2008
Surr: 1,2-Dichloroethane-d4	92.9			70-125	%REC	1	1/24/2008
Surr: 4-Bromofluorobenzene	97.1			72-125	%REC	1	1/24/2008
Surr: Dibromofluoromethane	101			71-125	%REC	1	1/24/2008
Surr: Toluene-d8	99.0			75-125	%REC	1	1/24/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 2 of 10

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

 Sample ID:
 MW-78
 Lab ID:
 0801487-03

 Collection Date:
 1/21/2008 2:40:00 PM
 Matrix:
 WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Meth	od: <b>SW8260</b>				Analyst: PC
1,1-Dichloroethane	0.0063		0.00050	0.0050	mg/L	1	1/25/2008
1,1-Dichloroethene	0.21		0.0030	0.025	mg/L	5	1/29/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/25/2008
cis-1,2-Dichloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Tetrachloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Trichloroethene	U		0.00070	0.0050	mg/L	1	1/25/2008
Vinyl chloride	U		0.00060	0.0020	mg/L	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	94.4			70-125	%REC	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	93.3			70-125	%REC	5	1/29/2008
Surr: 4-Bromofluorobenzene	99.8			72-125	%REC	1	1/25/2008
Surr: 4-Bromofluorobenzene	96.8			72-125	%REC	5	1/29/2008
Surr: Dibromofluoromethane	105			71-125	%REC	1	1/25/2008
Surr: Dibromofluoromethane	98.8			71-125	%REC	5	1/29/2008
Surr: Toluene-d8	103			75-125	%REC	1	1/25/2008
Surr: Toluene-d8	101			75-125	%REC	5	1/29/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 3 of 10

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

 Sample ID:
 MW-79
 Lab ID:
 0801487-04

 Collection Date:
 1/21/2008 4:05:00 PM
 Matrix:
 WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Meth	nod: <b>SW8260</b>				Analyst: <b>PC</b>
1,1-Dichloroethane	0.0089		0.00050	0.0050	mg/L	1	1/25/2008
1,1-Dichloroethene	0.14		0.00060	0.0050	mg/L	1	1/25/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/25/2008
cis-1,2-Dichloroethene	0.0019	J	0.00050	0.0050	mg/L	1	1/25/2008
Tetrachloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Trichloroethene	U		0.00070	0.0050	mg/L	1	1/25/2008
Vinyl chloride	U		0.00060	0.0020	mg/L	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	97.0			70-125	%REC	1	1/25/2008
Surr: 4-Bromofluorobenzene	97.2			72-125	%REC	1	1/25/2008
Surr: Dibromofluoromethane	107			71-125	%REC	1	1/25/2008
Surr: Toluene-d8	99.6			75-125	%REC	1	1/25/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 4 of 10

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

Sample ID: Dup-1

Collection Date: 1/21/2008 2:45:00 PM Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Metho	d: <b>SW8260</b>				Analyst: PC
1,1-Dichloroethane	0.0068		0.00050	0.0050	mg/L	1	1/25/2008
1,1-Dichloroethene	0.19		0.0030	0.025	mg/L	5	1/29/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/25/2008
cis-1,2-Dichloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Tetrachloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Trichloroethene	U		0.00070	0.0050	mg/L	1	1/25/2008
Vinyl chloride	U		0.00060	0.0020	mg/L	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	97.6			70-125	%REC	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	87.2			70-125	%REC	5	1/29/2008
Surr: 4-Bromofluorobenzene	97.5			72-125	%REC	1	1/25/2008
Surr: 4-Bromofluorobenzene	103			72-125	%REC	5	1/29/2008
Surr: Dibromofluoromethane	107			71-125	%REC	1	1/25/2008
Surr: Dibromofluoromethane	95.8			71-125	%REC	5	1/29/2008
Surr: Toluene-d8	101			75-125	%REC	1	1/25/2008
Surr: Toluene-d8	107			75-125	%REC	5	1/29/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 5 of 10

**Date:** *January 30, 2008* 

**Lab ID:** 0801487-05

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

 Sample ID:
 MW-96
 Lab ID:
 0801487-06

 Collection Date:
 1/22/2008 10:10:00 AM
 Matrix:
 WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Meth	nod: <b>SW8260</b>				Analyst: PC
1,1-Dichloroethane	0.0012	J	0.00050	0.0050	mg/L	1	1/25/2008
1,1-Dichloroethene	0.019		0.00060	0.0050	mg/L	1	1/25/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/25/2008
cis-1,2-Dichloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Tetrachloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Trichloroethene	U		0.00070	0.0050	mg/L	1	1/25/2008
Vinyl chloride	U		0.00060	0.0020	mg/L	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	100			70-125	%REC	1	1/25/2008
Surr: 4-Bromofluorobenzene	102			72-125	%REC	1	1/25/2008
Surr: Dibromofluoromethane	109			71-125	%REC	1	1/25/2008
Surr: Toluene-d8	104			75-125	%REC	1	1/25/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 6 of 10

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

 Sample ID:
 MW-166
 Lab ID:
 0801487-07

 Collection Date:
 1/22/2008 11:55:00 AM
 Matrix:
 WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Meth	nod: <b>SW8260</b>				Analyst: PC
1,1-Dichloroethane	0.0012	J	0.00050	0.0050	mg/L	1	1/25/2008
1,1-Dichloroethene	0.017		0.00060	0.0050	mg/L	1	1/25/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/25/2008
cis-1,2-Dichloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Tetrachloroethene	U		0.00050	0.0050	mg/L	1	1/25/2008
Trichloroethene	U		0.00070	0.0050	mg/L	1	1/25/2008
Vinyl chloride	U		0.00060	0.0020	mg/L	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	98.3			70-125	%REC	1	1/25/2008
Surr: 4-Bromofluorobenzene	99.0			72-125	%REC	1	1/25/2008
Surr: Dibromofluoromethane	104			71-125	%REC	1	1/25/2008
Surr: Toluene-d8	98.3			75-125	%REC	1	1/25/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 7 of 10

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

 Sample ID:
 MW-126
 Lab ID:
 0801487-08

 Collection Date:
 1/22/2008 2:15:00 PM
 Matrix:
 WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Meth	nod: <b>SW8260</b>				Analyst: PC
1,1-Dichloroethane	0.0053		0.00050	0.0050	mg/L	1	1/25/2008
1,1-Dichloroethene	0.0077		0.00060	0.0050	mg/L	1	1/25/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/25/2008
cis-1,2-Dichloroethene	0.023		0.00050	0.0050	mg/L	1	1/25/2008
Tetrachloroethene	0.018		0.00050	0.0050	mg/L	1	1/25/2008
Trichloroethene	0.0028	J	0.00070	0.0050	mg/L	1	1/25/2008
Vinyl chloride	U		0.00060	0.0020	mg/L	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	100			70-125	%REC	1	1/25/2008
Surr: 4-Bromofluorobenzene	101			72-125	%REC	1	1/25/2008
Surr: Dibromofluoromethane	108			71-125	%REC	1	1/25/2008
Surr: Toluene-d8	98.2			75-125	%REC	1	1/25/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 8 of 10

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

 Sample ID:
 MW-70
 Lab ID:
 0801487-09

 Collection Date:
 1/22/2008 3:40:00 PM
 Matrix:
 WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		Meth	nod: <b>SW8260</b>				Analyst: PC
1,1-Dichloroethane	0.021		0.00050	0.0050	mg/L	1	1/25/2008
1,1-Dichloroethene	0.0072		0.00060	0.0050	mg/L	1	1/25/2008
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	1/25/2008
cis-1,2-Dichloroethene	0.053		0.00050	0.0050	mg/L	1	1/25/2008
Tetrachloroethene	0.0013	J	0.00050	0.0050	mg/L	1	1/25/2008
Trichloroethene	0.015		0.00070	0.0050	mg/L	1	1/25/2008
Vinyl chloride	0.0031		0.00060	0.0020	mg/L	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	98.6			70-125	%REC	1	1/25/2008
Surr: 4-Bromofluorobenzene	99.0			72-125	%REC	1	1/25/2008
Surr: Dibromofluoromethane	111			71-125	%REC	1	1/25/2008
Surr: Toluene-d8	102			75-125	%REC	1	1/25/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 9 of 10

**Client:** ERM Southwest, Inc.

Project: Former Cameron Iron Works Work Order: 0801487

Sample ID: FB-1

Collection Date: 1/22/2008 5:30:00 PM Matrix: WATER

Analyses	Result Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS	M	ethod: <b>SW8260</b>				Analyst: PC
1,1-Dichloroethane	U	0.00050	0.0050	mg/L	1	1/25/2008
1,1-Dichloroethene	U	0.00060	0.0050	mg/L	1	1/25/2008
1,2-Dichloroethane	U	0.00050	0.0050	mg/L	1	1/25/2008
cis-1,2-Dichloroethene	U	0.00050	0.0050	mg/L	1	1/25/2008
Tetrachloroethene	U	0.00050	0.0050	mg/L	1	1/25/2008
Trichloroethene	U	0.00070	0.0050	mg/L	1	1/25/2008
Vinyl chloride	U	0.00060	0.0020	mg/L	1	1/25/2008
Surr: 1,2-Dichloroethane-d4	98.6		70-125	%REC	1	1/25/2008
Surr: 4-Bromofluorobenzene	103		72-125	%REC	1	1/25/2008
Surr: Dibromofluoromethane	107		71-125	%REC	1	1/25/2008
Surr: Toluene-d8	106		75-125	%REC	1	1/25/2008

Qualifiers: U - Analyzed for but Not Detected

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results RPD > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time AR Page 10 of 10

**Date:** *January 30, 2008* 

**Lab ID:** 0801487-10

**Test Code:** 8260\_TCL\_W **Test Number:** SW8260

**Test Name:** TCL Volatile Organics

Matrix: Aqueous Units: mg/L

### METHOD DETECTION / REPORTING LIMITS

**Date:** Jan 30, 2008

Туре	Analyte	CAS	MDL	Unadjusted MQL
A	1,1-Dichloroethane	75-34-3	0.0005	0.005
A	1,1-Dichloroethene	75-35-4	0.0006	0.005
A	1,2-Dichloroethane	107-06-2	0.0005	0.005
A	cis-1,2-Dichloroethene	156-59-2	0.0005	0.005
A	Tetrachloroethene	127-18-4	0.0005	0.005
A	Trichloroethene	79-01-6	0.0007	0.005
A	Vinyl chloride	75-01-4	0.0006	0.002
S	Surr: 1,2-Dichloroethane-d4	17060-07-0	0	0
S	Surr: 4-Bromofluorobenzene	460-00-4	0	0
S	Surr: Dibromofluoromethane	1868-53-7	0	0
S	Surr: Toluene-d8	2037-26-5	0	0

**CLIENT:** ERM Southwest, Inc.

**Work Order:** 0801487

**Project:** Former Cameron Iron Works

#### **Date:** Jan 30 2008

#### **QC BATCH REPORT**

Batch ID: <b>R59201</b> Instrument ID	VOA1		Metho	d: <b>SW82</b> 6	60						
MBLK Sample ID: VBLKW-012408	}					U	nits: µg/L		Analysis D	ate: <b>01/2</b> 4	4/08 12:36
Client ID:	Run	ID: VOA1_	080124A		Se	qNo: <b>131</b> :	3358	Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane	U	5.0									
1,1-Dichloroethene	U	5.0									
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	2.0									
Surr: 1,2-Dichloroethane-d4	44.53	5.0	50		0	89.1	70-125		0		
Surr: 4-Bromofluorobenzene	48.51	5.0	50		0	97	72-125		0		
Surr: Dibromofluoromethane	51.02	5.0	50		0	102	71-125		0		
Surr: Toluene-d8	48.7	5.0	50		0	97.4	75-125		0		
LCS Sample ID: VLCSW-012408	1					U	nits: <b>µg/L</b>		Analysis D	ate: <b>01/2</b> 4	1/08 11:45
Client ID:	Run	ID: VOA1_	080124A		Se	qNo: <b>131</b> :	3357	Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane	50.23	5.0	50		0	100	76-120		0		
1,1-Dichloroethene	46.85	5.0	50		0	93.7	73-124		0		
1,2-Dichloroethane	50.95	5.0	50		0	102	78-120		0		
cis-1,2-Dichloroethene	49.63	5.0	50		0	99.3	78-120		0		
Tetrachloroethene	44.52	5.0	50		0	89	79-120		0		
Trichloroethene	47.42	5.0	50		0	94.8	80-120		0		
Vinyl chloride	44.29	2.0	50		0	88.6	70-127		0		
Surr: 1,2-Dichloroethane-d4	48.41	5.0	50		0	96.8	70-125		0		
Surr: 4-Bromofluorobenzene	47.45	5.0	50		0	94.9	72-125		0		

ND - Not Detected at the Reporting Limit

Surr: Dibromofluoromethane

Surr: Toluene-d8

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

50.22

52.38

5.0

5.0

50

50

0

0

100

105

71-125

75-125

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

0

0

E - Value above quantitation range

QC Page: 1 of 5

**CLIENT:** ERM Southwest, Inc.

**Work Order:** 0801487

**Project:** Former Cameron Iron Works

QC BATCH REPORT

Batch ID: <b>R59201</b>	Instrument ID VO	<b>A</b> 1		Method	d: SW826	0						
MS Sample I	D: <b>0801494-01AMS</b>						Uı	nits: µg/L		Analysis D	ate: <b>01/24</b>	/08 15:58
Client ID:		Run	ID: VOA1_0	080124A		Seq	No: <b>131</b> 3	3360	Prep Date:		DF: <b>1</b>	
Analyte	F	Result	MQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane		51.72	5.0	50		0	103	76-120		0		
1,1-Dichloroethene	4	48.27	5.0	50		0	96.5	73-124		0		
1,2-Dichloroethane	!	52.78	5.0	50		0	106	78-120		0		
cis-1,2-Dichloroethene	;	53.32	5.0	50		0	107	78-120		0		
Tetrachloroethene	-	78.14	5.0	50	34.0	)9	88.1	79-120		0		
Trichloroethene	4	48.92	5.0	50		0	97.8	80-120		0		
Vinyl chloride		50.2	2.0	50		0	100	70-127		0		
Surr: 1,2-Dichloroeth	ane-d4	51.62	5.0	50		0	103	70-125		0		
Surr: 4-Bromofluorob	oenzene -	49.23	5.0	50		0	98.5	72-125		0		
Surr: Dibromofluoron	nethane	51.77	5.0	50		0	104	71-125		0		
Surr: Toluene-d8	;	50.66	5.0	50		0	101	75-125		0		
MSD Sample I	D: <b>0801494-01AMSD</b>						Uı	nits: <b>µg/L</b>		Analysis D	ate: <b>01/2</b> 4	/08 16:24
Client ID:		Run	ID: VOA1_0	080124A		Seq	No: <b>131</b> 3	3361	Prep Date:		DF: 1	
Analyte	F	Result	MQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1 1-Dichloroethane		50 57	5.0	50		0	101	76-120	51	72 225	20	

1,1-Dichloroethane	50.57	5.0	50	U	101	76-120	51.72	2.25	20	
1,1-Dichloroethene	44.72	5.0	50	0	89.4	73-124	48.27	7.64	20	
1,2-Dichloroethane	51.01	5.0	50	0	102	78-120	52.78	3.41	20	
cis-1,2-Dichloroethene	52.65	5.0	50	0	105	78-120	53.32	1.26	20	
Tetrachloroethene	77.26	5.0	50	34.09	86.3	79-120	78.14	1.14	20	
Trichloroethene	46.41	5.0	50	0	92.8	80-120	48.92	5.27	20	
Vinyl chloride	45.3	2.0	50	0	90.6	70-127	50.2	10.3	20	
Surr: 1,2-Dichloroethane-d4	50.08	5.0	50	0	100	70-125	51.62	3.04	20	
Surr: 4-Bromofluorobenzene	50.11	5.0	50	0	100	72-125	49.23	1.77	20	
Surr: Dibromofluoromethane	52.15	5.0	50	0	104	71-125	51.77	0.731	20	
Surr: Toluene-d8	52.08	5.0	50	0	104	75-125	50.66	2.77	20	

The following samples were analyzed in this batch:

0801487-01A 0801487-02A

QC Page: 2 of 5

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

**CLIENT:** ERM Southwest, Inc.

**Work Order:** 0801487

**Project:** Former Cameron Iron Works

#### **QC BATCH REPORT**

Batch ID: R59246 Instrument ID	VOA1		Metho	d: <b>SW826</b>	60						
MBLK Sample ID: VBLKW-012508	3					U	nits: μg/L		Analysis D	ate: <b>01/2</b>	5/08 11:58
Client ID:	Run	ID: VOA1_	080125A		Se	qNo: <b>131</b> 4	4263	Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane	U	5.0									
1,1-Dichloroethene	U	5.0									
1,2-Dichloroethane	U	5.0									
cis-1,2-Dichloroethene	U	5.0									
Tetrachloroethene	U	5.0									
Trichloroethene	U	5.0									
Vinyl chloride	U	2.0									
Surr: 1,2-Dichloroethane-d4	44.46	5.0	50		0	88.9	70-125		0		
Surr: 4-Bromofluorobenzene	51.49	5.0	50		0	103	72-125		0		
Surr: Dibromofluoromethane	49.03	5.0	50		0	98.1	71-125		0		
Surr: Toluene-d8	51.04	5.0	50		0	102	75-125		0		
LCS Sample ID: VLCSW-012508	}					U	nits: <b>µg/L</b>		Analysis D	ate: <b>01/2</b>	5/08 11:07
Client ID:	Run	ID: VOA1_	080125A		Se	qNo: <b>131</b> 4	4262	Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane	49.78	5.0	50		0	99.6	76-120		0		
1,1-Dichloroethene	50.95	5.0	50		0	102	73-124		0		
1,2-Dichloroethane	51.52	5.0	50		0	103	78-120		0		
cis-1,2-Dichloroethene	52.57	5.0	50		0	105	78-120		0		
Tetrachloroethene	48.48	5.0	50		0	97	79-120		0		
Trichloroethene	51.45	5.0	50		0	103	80-120		0		
Vinyl chloride	49.71	2.0	50		0	99.4	70-127		0		

5.0

5.0

5.0

5.0

48.89

49.77

51.63

51

50

50

50

50

0

0

0

0

97.8

99.5

103

102

70-125

72-125

71-125

75-125

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

0

0

0

0

QC Page: 3 of 5

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

**CLIENT:** ERM Southwest, Inc.

**Work Order:** 0801487

**Project:** Former Cameron Iron Works

QC BATCH REPORT

Batch ID: R5924	46 Instrument IE	VOA1		Metho	d: <b>SW8260</b>						
MS S	ample ID: <b>0801517-02AN</b>	<b>IS</b>				U	nits: <b>μg/L</b>		Analysis D	ate: <b>01/25</b>	/08 14:04
Client ID:		Run I	D: <b>VOA1</b> _	080125A	Se	qNo: <b>131</b> 4	4267	Prep Date:		DF: <b>1</b>	
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroetha	ane	50.29	5.0	50	0	101	76-120		0		
1,1-Dichloroethe	ene	48.79	5.0	50	0	97.6	73-124		0		
1,2-Dichloroetha	ane	52.13	5.0	50	0	104	78-120		0		
cis-1,2-Dichloro	ethene	51.53	5.0	50	1.005	101	78-120		0		
Tetrachloroethe	ne	47.05	5.0	50	0	94.1	79-120		0		
Trichloroethene		52.32	5.0	50	1.078	102	80-120		0		
Vinyl chloride		50.44	2.0	50	0	101	70-127		0		
Surr: 1,2-Dich	nloroethane-d4	50.39	5.0	50	0	101	70-125		0		
Surr: 4-Brome	ofluorobenzene	50.94	5.0	50	0	102	72-125		0		
Surr: Dibromo	ofluoromethane	51.14	5.0	50	0	102	71-125		0		
Surr: Toluene	e-d8	53.39	5.0	50	0	107	75-125		0		
MSD S	ample ID: <b>0801517-02AN</b>	/ISD				U	nits: µg/L		Analysis D	ate: <b>01/25</b>	/08 14:30
Client ID:		Run I	D: <b>VOA1</b> _	080125A	Se	qNo: <b>131</b> 4	4268	Prep Date:		DF: <b>1</b>	
					SPK Ref		Control	RPD Ref		RPD	

Ruitii	J. VOAI_	000123A	00	54140. 131	4200	Ртер Бате.		Dr. I	
Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
52.76	5.0	50	0	106	76-120	50.29	4.81	20	
47.54	5.0	50	0	95.1	73-124	48.79	2.59	20	
53.82	5.0	50	0	108	78-120	52.13	3.18	20	
54.1	5.0	50	1.005	106	78-120	51.53	4.86	20	
44.17	5.0	50	0	88.3	79-120	47.05	6.3	20	
50.69	5.0	50	1.078	99.2	80-120	52.32	3.16	20	
48.55	2.0	50	0	97.1	70-127	50.44	3.83	20	
50.19	5.0	50	0	100	70-125	50.39	0.397	20	
49.74	5.0	50	0	99.5	72-125	50.94	2.37	20	
50.66	5.0	50	0	101	71-125	51.14	0.939	20	
50.23	5.0	50	0	100	75-125	53.39	6.12	20	·
	Result  52.76  47.54  53.82  54.1  44.17  50.69  48.55  50.19  49.74  50.66	Result         MQL           52.76         5.0           47.54         5.0           53.82         5.0           54.1         5.0           44.17         5.0           50.69         5.0           48.55         2.0           50.19         5.0           49.74         5.0           50.66         5.0	52.76     5.0     50       47.54     5.0     50       53.82     5.0     50       54.1     5.0     50       44.17     5.0     50       50.69     5.0     50       48.55     2.0     50       50.19     5.0     50       49.74     5.0     50       50.66     5.0     50	Result         MQL         SPK Val         SPK Ref Value           52.76         5.0         50         0           47.54         5.0         50         0           53.82         5.0         50         0           54.1         5.0         50         1.005           44.17         5.0         50         0           50.69         5.0         50         1.078           48.55         2.0         50         0           50.19         5.0         50         0           49.74         5.0         50         0           50.66         5.0         50         0	Result         MQL         SPK Val         Value         %REC           52.76         5.0         50         0         106           47.54         5.0         50         0         95.1           53.82         5.0         50         0         108           54.1         5.0         50         1.005         106           44.17         5.0         50         0         88.3           50.69         5.0         50         1.078         99.2           48.55         2.0         50         0         97.1           50.19         5.0         50         0         100           49.74         5.0         50         0         99.5           50.66         5.0         50         0         101	Result         MQL         SPK Val         SPK Ref Value         Control Limit           52.76         5.0         50         0         106         76-120           47.54         5.0         50         0         95.1         73-124           53.82         5.0         50         0         108         78-120           54.1         5.0         50         1.005         106         78-120           44.17         5.0         50         0         88.3         79-120           50.69         5.0         50         1.078         99.2         80-120           48.55         2.0         50         0         97.1         70-127           50.19         5.0         50         0         100         70-125           49.74         5.0         50         0         99.5         72-125           50.66         5.0         50         0         101         71-125	Result         MQL         SPK Val         Value         %REC         Control Limit         RPD Ref Value           52.76         5.0         50         0         106         76-120         50.29           47.54         5.0         50         0         95.1         73-124         48.79           53.82         5.0         50         0         108         78-120         52.13           54.1         5.0         50         1.005         106         78-120         51.53           44.17         5.0         50         0         88.3         79-120         47.05           50.69         5.0         50         1.078         99.2         80-120         52.32           48.55         2.0         50         0         97.1         70-127         50.44           50.19         5.0         50         0         100         70-125         50.39           49.74         5.0         50         0         99.5         72-125         50.94           50.66         5.0         50         0         101         71-125         51.14	Result         MQL         SPK Val         SPK Ref Value         Control Limit         RPD Ref Value         %RPD           52.76         5.0         50         0         106         76-120         50.29         4.81           47.54         5.0         50         0         95.1         73-124         48.79         2.59           53.82         5.0         50         0         108         78-120         52.13         3.18           54.1         5.0         50         1.005         106         78-120         51.53         4.86           44.17         5.0         50         0         88.3         79-120         47.05         6.3           50.69         5.0         50         1.078         99.2         80-120         52.32         3.16           48.55         2.0         50         0         97.1         70-127         50.44         3.83           50.19         5.0         50         0         100         70-125         50.39         0.397           49.74         5.0         50         0         99.5         72-125         50.94         2.37           50.66         5.0         50         0	Result         MQL         SPK Val         SPK Ref Value         Control Limit         RPD Ref Value         RPD Limit           52.76         5.0         50         0         106         76-120         50.29         4.81         20           47.54         5.0         50         0         95.1         73-124         48.79         2.59         20           53.82         5.0         50         0         108         78-120         52.13         3.18         20           54.1         5.0         50         1.005         106         78-120         51.53         4.86         20           44.17         5.0         50         0         88.3         79-120         47.05         6.3         20           50.69         5.0         50         1.078         99.2         80-120         52.32         3.16         20           48.55         2.0         50         0         97.1         70-127         50.44         3.83         20           50.19         5.0         50         0         99.5         72-125         50.39         0.397         20           49.74         5.0         50         0         99.5         7

0801487-03A	0801487-04A	0801487-05A
0801487-06A	0801487-07A	0801487-08A
0801487-09A	0801487-10A	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 4 of 5

QC BATCH REPORT

**CLIENT:** ERM Southwest, Inc.

**Work Order:** 0801487

**Project:** Former Cameron Iron Works

MBLK Sample ID: VBLKW-01	12908				11	nits: µg/L		Analysis Da	te: 01/20	/08 11·2·
Client ID:		D: <b>VOA1</b> _	080129B	S	eqNo: <b>131</b>		Prep Date:	Allalysis De	DF: 1	00 11.2
Chora ID.		3. <b>(O</b> A1_	0001202		oq. (o. 101)					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	U	5.0								
Surr: 1,2-Dichloroethane-d4	48.02	5.0	50	0	96	70-125		0		
Surr: 4-Bromofluorobenzene	51.38	5.0	50	0	103	72-125		0		
Surr: Dibromofluoromethane	50.72	5.0	50	0	101	71-125		0		
Surr: Toluene-d8	52.52	5.0	50	0	105	75-125		0		
LCS Sample ID: VLCSW-01	2908				U	nits: µg/L		Analysis Da	ite: <b>01/29</b> /	/08 10:3
Client ID:	Run II	D: <b>VOA1</b> _	080129B	S	eqNo: <b>131</b>	6506	Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.44	5.0	50	0	88.9	73-124		0		
Surr: 1,2-Dichloroethane-d4	52.8	5.0	50	0	106	70-125		0		
Surr: 4-Bromofluorobenzene	49.36	5.0	50	0	98.7	72-125		0		
Surr: Dibromofluoromethane	52.29	5.0	50	0	105	71-125		0		
Surr: Toluene-d8	52.82	5.0	50	0	106	75-125		0		
MS Sample ID: 0801487-0	2 A M S					nits: µg/L		Analysis Da	to: 01/20	/ng 16·n
Client ID: MW-78		D: <b>VOA1</b> _	080129B	S	eqNo: <b>131</b>		Prep Date:	Allalysis Da	DF: <b>5</b>	10.0
G. G		· · · · · · · · · ·			94.10. 10.		•			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
•										Quai
1,1-Dichloroethene	410.3	25	250	205.4	82	73-124		0		
Surr: 1,2-Dichloroethane-d4	249.9	25	250	0	100	70-125		0		
Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	263.3	25	250	0	105	72-125		0		
Surr: Dibromonuorometnane Surr: Toluene-d8	244 270.8	25 25	250 250	0	97.6 108	71-125 75-125		0		
MSD Sample ID: 0801487-03AMSD				0		nits: µg/L		Analysis Da		/08 16:3
Client ID: MW-78	Run II	D: <b>VOA1</b> _	080129B	SPK Ref	eqNo: <b>131</b> (	Control	Prep Date: RPD Ref		DF: <b>5</b> RPD	
Analyte	Result	MQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
1,1-Dichloroethene	391.8	25	250	205.4	74.6	73-124	410	.3 4.61	20	
Surr: 1,2-Dichloroethane-d4	241	25	250	0	96.4	70-125	249	.9 3.66	20	
Surr: 4-Bromofluorobenzene	243.3	25	250	0	97.3	72-125	263	.3 7.93	20	
Guil. 4 Bromonadrobenzene	242.3	25	250	0	96.9	71-125	24	14 0.688	20	
Surr: Dibromofluoromethane					400	75 405	270	.8 <i>5.48</i>	00	
	256.3	25	250	0	103	75-125	270	.0 5.40	20	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

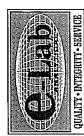
P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

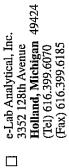
E - Value above quantitation range

QC Page: 5 of 5



## e-Lab Analytical, Inc. 10450 Stancliff Rd. #210 Houston, Texas 77099 (Tel) 281.530.5656 (Fax) 281.530.5887

# **Chain of Custody Form**



work Order #: MADIU 9

\*\*\*\* Project Manager:

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Customer Information	- Add and an annual minutes	Project Information	ation		Parameter/Method Request for Analysis
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	Polecknimber	#0060761			And
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<b>∤</b> ∫	080	3.65 1720	カンプ		×
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Relinquished by: Part 2	Time; Och O	The William	Part 1	355	notes: 10 Day TAT. /- とえっく
Mate:		ved by (Laborated):	1(23)	ر الرخ الرخ	D. COC Packages (Check One Box Beld
Logic by (Laboratory): See the second policy property of the control of the contr	Party Times are some and are some are s	ked by (Laboratory):	大田市 20 D P の 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A contract of the	(記事事を表するなるとの Date を表するなるとの Date
Preservative Key: **1-HC; ***2-HNO3****	s and COC Form have been s	submitted to e-Lab	Analytical, Inc.		3 30 10 10 10
				4	- distance of a first manager

? Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

#### Sample Receipt Checklist

Client Name: ERMSW-HOU			Date/T	ime Received:	1/23/2008 1:35:00 PM
Work Order Number 0801487			Receiv	red by: PS	
Checklist completed by Signature	1-24.	08	Reviev	ved by Inilials	1 1 28 0 8 Date
Matrix:	Carrier name:	E-Lab			
Shipping container/cooler in good condition?		Yes 🗸	No	Not Presen	t 🗆 .
Custody seals intact on shipping container/cooler	?	Yes	No 🗀	Not Presen	t 🔀
Custody seals intact on sample bottles?		Yes 🔝	No!	Not Presen	t 😾
Chain of custody present?		Yes 🗸	No		
Chain of custody signed when relinquished and re	eceived?	Yes 🗸	No		
Chain of custody agrees with sample labels?		Yes 🔽	No 🗌		
Samples in proper container/bottle?		Yes 🔽	No 🗍		
Sample containers intact?		Yes 🗸	No 🛄		
Sufficient sample volume for indicated test?		Yes 🔽	No 🗔		
All samples received within holding time?		Yes 🔽	No [		
Container/Temp Blank temperature in compliance	?	Yes 🗸	No [		
Temperature(s)/Thermometer(s):	<u> 2</u>	<u>2.7c</u>	002		
Cooler(s)/Kit(s):		1449			
Water - VOA vials have zero headspace?		Yes 🗸	No	No VOA vials s	ubmitted
Water - pH acceptable upon receipt?		Yes	No 🗀	N/A	
,	Adjusted?		Checked by		
Login Notes: <u>Trip blank not on COClogge</u>	ed in without analysis				
Client contacted:	Date contacted:			Person contact	ed .
Contacted by:	Regarding:				
Comments:					
Corrective Action					