

Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
EXTRACTION WELLS							
AE-3-02-05-07-11:15	81	1.0		5.0		10.0	
HZ-S-02-05-07-12:45	1427	1.0		5.0		10.0	
LB-1-02-05-07-11:11	529	1.0		5.0		10.0	
LB-3-02-05-07-11:13	571	1.0		5.0		10.0	
PW-1-02-05-07-11:30	1163	1.0		5.0		10.0	
DOLPH-02-05-07-11:42	106	1.0		5.0		10.0	
TW-5-02-05-07-11:50	1001	1.0		5.0		10.0	
TW-6-02-05-07-11:32	186	1.0		5.0		10.0	
TW-8-02-05-07-11:20	688	1.0		5.0		10.0	
TW-9-02-05-07-12:40	1649	1.0		5.0		10.0	
TW-10-02-05-07-12:25	1883	1.0		5.0		10.0	
TW-11-02-05-07-11:51	348	1.0		5.0		10.0	
TW-12-02-05-07-11:40	48	1.0		5.0		10.0	
TW-13-02-05-07-12:55	546	1.0		5.0		10.0	
TW-14-02-05-07-12:35	185	1.0		5.0		10.0	
TW-17-02-05-07-12:30	174	1.0		5.0		10.0	
TW-18-02-05-07-11:31	934	1.0		5.0		10.0	
TW-19-02-05-07-08:45	785	1.0	nd	5.0		10.0	
TW-19-02-12-07-08:08	834	1.0	nd	5.0		10.0	
TW-19-02-19-07-06:38	813	1.0	nd	5.0		10.0	
TW-19-02-26-07-07:58	785	1.0	nd	5.0		10.0	
TW-20-02-05-07-12:15	4913	1.0		5.0		10.0	

Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
TEMPORARY EXTRACTION WELLS							
MW-50-02-05-07-11:22	345	1.0		5.0		10.0	
SW-COMB-02-05-07-11:32	633	1.0		5.0		10.0	
RED POND							
Red Pond-02-05-07-08:25	906	1.0		5.0	104	10.0	
Red Pond-02-05-07-11:30	918	1.0		5.0	105	10.0	
Red Pond-02-12-07-08:00	672	1.0		5.0	108	10.0	
Red Pond-02-19-07-06:42	918	1.0		5.0	125	10.0	
Red Pond-02-26-07-07:45	905	1.0		5.0	111	10.0	
OUTFALL001							
OUTFALL-02-01-07-	4	1.0	6	5.0		10.0	
OUTFALL-02-04-07-	5	1.0	6	5.0		10.0	
OUTFALL-02-05-07-	4	1.0	5	5.0		10.0	
OUTFALL-02-06-07-	5	1.0	5	5.0		10.0	
OUTFALL-02-07-07-	5	1.0	5	5.0		10.0	
OUTFALL-02-08-07-	5	1.0	6	5.0		10.0	
OUTFALL-02-11-07-	5	1.0	8	5.0		10.0	
OUTFALL-02-12-07-	4	1.0	6	5.0		10.0	
OUTFALL-02-13-07-	5	1.0	8	5.0		10.0	
OUTFALL-02-14-07-	5	1.0	6	5.0		10.0	
OUTFALL-02-15-07-	5	1.0	7	5.0		10.0	
OUTFALL-02-18-07-	5	1.0	6	5.0		10.0	
OUTFALL-02-19-07-	5	1.0	6	5.0		10.0	
OUTFALL-02-20-07-	5	1.0	6	5.0		10.0	
OUTFALL-02-21-07-	4	1.0	8	5.0		10.0	
OUTFALL-02-22-07-	5	1.0	7	5.0		10.0	
OUTFALL-02-25-07-	5	1.0	nd	5.0		10.0	
OUTFALL-02-26-07-	5	1.0	5	5.0		10.0	
OUTFALL-02-27-07-	4	1.0	8	5.0		10.0	

Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
OUTFALL001							
OUTFALL-02-28-07-	5	1.0	7	5.0		10.0	
D0							
MW-53I-02-12-07-11:40	50	1.0		5.0		10.0	
5005 Jackson Rd-02-01-07-10:15	43	1.0		5.0		10.0	
A2 Cleaning Supply-02-01-07-12:30	108	1.0		5.0		10.0	
D2							
MW-92-02-15-07-14:05	20	1.0		5.0		10.0	
545 Allison-02-19-07-11:20	7	1.0		5.0		10.0	
E							
MW-79s-02-12-07-13:45	293	1.0		5.0		10.0	
MW-81-02-19-07-13:10	470	1.0		5.0		10.0	
MW-85-02-16-07-12:00	1363	1.0		5.0		10.0	
MW-88-02-14-07-13:35	445	1.0		5.0		10.0	
MW-89-02-13-07-08:30	nd	1.0		5.0		10.0	
MW-90-02-13-07-09:20	26	1.0		5.0		10.0	
MW-91-02-19-07-12:20	2	1.0		5.0		10.0	
MW-107-02-12-07-10:05	54	1.0		5.0		10.0	
MW-108s-02-20-07-13:45	2828	1.0		5.0		10.0	
MW-108d-02-20-07-14:25	4040	1.0		5.0		10.0	
TW-15-02-20-07-11:45	114	1.0		5.0		10.0	
Not Determined							
MW-100-02-12-07-12:50	21	1.0		5.0		10.0	
MW-101-02-12-07-08:00	346	1.0		5.0		10.0	
MW-104-02-12-07-09:30	nd	1.0		5.0		10.0	
MW-110-02-12-07-08:55	25	1.0		5.0		10.0	
MW-111-02-16-07-11:00	nd	1.0		5.0		10.0	
None							
HC/HR-02-26-07-09:15	See Comments	1.0	nd	2.0		10.0	Bromate Only

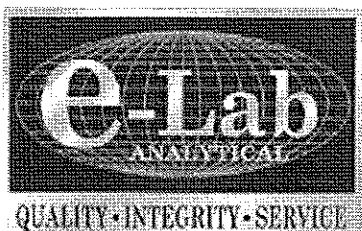
Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
None							
HC/HR-02-27-07-07:50	See Comments	1.0	nd	2.0		10.0	Bromate Only
HC/HR-02-28-07-07:55	See Comments	1.0	nd	2.0		10.0	Bromate Only
Maple-Inj-02-01-07-08:11	10	1.0	5	5.0		10.0	
Maple-Inj-02-02-07-08:09	8	1.0	7	5.0		10.0	
Maple-Inj-02-05-07-08:40	7	1.0	6	5.0		10.0	
Maple-Inj-02-06-07-08:15	7	1.0	7	5.0		10.0	
Maple-Inj-02-07-07-08:30	6	1.0	7	5.0		10.0	
Maple-Inj-02-08-07-07:25	7	1.0	6	5.0		10.0	
Maple-Inj-02-09-07-07:55	7	1.0	7	5.0		10.0	
Maple-Inj-02-12-07-08:10	9	1.0	8	5.0		10.0	
Maple-Inj-02-13-07-07:42	8	1.0	8	5.0		10.0	
Maple-Inj-02-14-07-09:10	7	1.0	9	5.0		10.0	
Maple-Inj-02-15-07-08:15	6	1.0	10	5.0		10.0	
Maple-Inj-02-16-07-08:10	9	1.0	7	5.0		10.0	
Maple-Inj-02-19-07-06:35	10	1.0	5	5.0		10.0	
Maple-Inj-02-20-07-06:30	16	1.0	nd	5.0		10.0	
Maple-Inj-02-21-07-08:10	11	1.0	5	5.0		10.0	
Maple-Inj-02-22-07-07:34	14	1.0	nd	5.0		10.0	
Maple-Inj-02-23-07-09:05	7	1.0	9	5.0		10.0	
Maple-Inj-02-26-07-07:55	11	1.0	6	5.0		10.0	
Maple-Inj-02-27-07-07:55	12	1.0	nd	5.0		10.0	
Maple-Inj-02-28-07-08:05	12	1.0	8	5.0		10.0	

nd=Not detected at or above the Reporting Limit (R.L.)

1,4-Dioxane Precision and Accuracy Control Charting

Analysis Date	Method Blank	CVS True Value	CVS Result	CVS % Recovery	LFB True Value:	LFB Result:	LFB % Recovery:	Sample Result:	MS/MSD True Value:	MS Result:	MSD Result:	MS % Recovery:	MSD % Recovery:	MS/MSD Mean:	MS/MSD RSD:	MS/MSD RPD:
2/1/2007	0	10.00	9.45	94.5%	10.00	9.57	95.7%	4.18	10.00	13.34	14.78	91.6%	106%	14.06	7.24%	10.24%
2/2/2007	0	10.00	9.37	93.7%	10.00	9.71	97.1%	4.37	10.00	14.51	14.60	101.4%	102.3%	14.56	0.44%	0.62%
2/5/2007	0	10.00	9.27	92.7%	10.00	9.44	94.4%	4.75	10.00	14.21	14.90	94.6%	101.5%	14.56	3.35%	4.74%
2/6/2007	0	10.00	9.41	94.1%	10.00	10.76	107.6%	4.54	10.00	13.33	14.26	87.9%	97.2%	13.80	4.77%	6.74%
	0	10.00			10.00	9.50	95%		10.00							
2/7/2007	0	10.00	8.94	89.4%	10.00	9.37	93.7%	4.60	10.00	15.13	15.07	105.3%	104.7%	15.10	0.28%	0.40%
2/8/2007	0	10.00	9.27	92.7%	10.00	9.32	93.2%	4.67	10.00	14.17	14.69	95%	100.2%	14.43	2.55%	3.60%
2/9/2007	0	10.00	9.37	93.7%	10.00	9.23	92.3%	4.68	10.00	13.74	14.41	90.6%	97.3%	14.08	3.37%	4.76%
2/12/2007	0	10.00	10.09	100.9%	10.00	9.79	97.9%	4.71	10.00	14.04	14.70	93.3%	99.9%	14.37	3.25%	4.59%
2/13/2007	0	10.00	9.17	91.7%	10.00	9.75	97.5%	3.96	10.00	13.88	13.57	99.2%	96.1%	13.73	1.60%	2.26%
2/14/2007	0	10.00	9.37	93.7%	10.00	9.54	95.4%	5.04	10.00	15.56	15.88	105.2%	108.4%	15.72	1.44%	2.04%
2/15/2007	0	10.00	9.36	93.6%	10.00	9.91	99.1%	5.09	10.00	14.93	15.48	98.4%	103.9%	15.21	2.56%	3.62%
2/16/2007	0	10.00	9.55	95.5%	10.00	9.88	98.8%	5.23	10.00	15.20	15.57	99.7%	103.4%	15.39	1.70%	2.40%
2/19/2007	0	10.00	9.78	97.8%	10.00	10.43	104.3%	4.93	10.00							
2/20/2007	0	10.00	9.23	92.3%	10.00	10.12	101.2%	4.68	10.00	14.87	14.85	101.9%	101.7%	14.86	0.10%	0.13%
2/21/2007	0	10.00	9.12	91.2%	10.00	9.16	91.6%	4.62	10.00	14.93	14.57	103.1%	99.5%	14.75	1.73%	2.44%
2/22/2007	0	10.00	9.45	94.5%	10.00	9.44	94.4%	4.36	10.00	14.26	14.50	99%	101.4%	14.38	1.18%	1.67%
2/23/2007	0	10.00	9.29	92.9%	10.00	9.22	92.2%	4.62	10.00	15.04	15.42	104.2%	108%	15.23	1.76%	2.50%
2/26/2007	0	10.00	9.60	96.0%	10.00	9.83	98.3%	4.61	10.00	14.27	14.55	96.6%	99.4%	14.41	1.37%	1.94%
2/28/2007	0	10.00	9.38	93.8%	10.00	9.19	91.9%	4.53	10.00	14.95	14.22	104.2%	96.9%	14.59	3.54%	5.01%

CVS Mean: 9.39 CVS Standard Dev: 0.25 3 Standard Dev.: 0.74 Lower Control Limit: 8.65 Upper Control Limit: 10.14



e-Lab Analytical, Inc

3352 128th Avenue Holland, Michigan 49424-9263 (616) 399-6070 Fax (616) 399-6185

February 16, 2007

Wendy Schultz
Pall Life Sciences
600 South Wagner Road
Ann Arbor, MI 48103-9019

Tel: (734) 913-6598
Fax: (734) 913-6427

Re: Oxalic Acid Analysis

Work Order : **0702143**

Dear Wendy,

e-Lab Analytical, Inc received 1 sample on 2/7/2007 9:35:00 AM 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.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from 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 6.

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

Sincerely,

Electronically approved by: Bill Carey

Bill Carey
Project Manager



Certificate No: IL100452

e-Lab Analytical, Inc

Date: February 16, 2007

CLIENT: Pall Life Sciences
Project: Oxalic Acid Analysis
Work Order: 0702143

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0702143-01	Outfall 001	Water		2/5/2007 12:10	2/7/2007 09:35	<input type="checkbox"/>

e-Lab Analytical, Inc

Date: February 16, 2007

CLIENT: Pall Life Sciences
Project: Oxalic Acid Analysis

Work Order: 0702143

Lab ID: 0702143-01A
Client Sample ID: Outfall 001

Collection Date: 2/5/2007 12:10:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
ORGANIC ACIDS BY HPLC			HPLC			Analyst: JD
Oxalic acid	ND	150		µg/L	1	2/15/2007

Qualifiers:
ND - Not Detected at the Reporting Limit
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

e-Lab Analytical, Inc

Date: Feb 16 2007

CLIENT: Pall Life Sciences

QC BATCH REPORT

Work Order: 0702143

Project: Oxalic Acid Analysis

Batch ID: R46382 Instrument ID HPLC1 Method: HPLC

MBLK		Sample ID: MB-R46382			Units: mg/L			Analysis Date: 02/15/07 0:00		
Client ID:		Run ID: HPLC1_070215A			SeqNo: 731895		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	ND	0.15								

LCS		Sample ID: LCS-R46382			Units: mg/L			Analysis Date: 02/15/07 0:00		
Client ID:		Run ID: HPLC1_070215A			SeqNo: 731896		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	415.7	0.15	500	0	83.1	80-120	0			

LCSD		Sample ID: LCSD-R46382			Units: mg/L			Analysis Date: 02/15/07 0:00		
Client ID:		Run ID: HPLC1_070215A			SeqNo: 731900		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	414.1	0.15	500	0	82.8	80-120	415.7	0.384	20	

MS		Sample ID: 0702143-01A MS			Units: mg/L			Analysis Date: 02/15/07 0:00		
Client ID: Outfall 001		Run ID: HPLC1_070215A			SeqNo: 731898		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	715.5	0.30	1000	0	71.6	45-85	0			

MSD		Sample ID: 0702143-01A MSD			Units: mg/L			Analysis Date: 02/15/07 0:00		
Client ID: Outfall 001		Run ID: HPLC1_070215A			SeqNo: 731899		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	699	0.30	1000	0	69.9	45-85	715.5	2.33	20	

The following samples were analyzed in this batch: 0702143-01A

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: 1 of 1

CHAIN OF CUSTODY RECORD



Department of Environmental Affairs Laboratory
 602 South Wagner Road
 Ann Arbor, MI 48103-9019
 Phone: (734) 913-6589
 Fax: (734) 913-6105

1,4-Dioxane

Other: OXALIC ACID

	Sample ID-Date-Time	Number of containers	Location	Comments
1	OUTFAU001 2-5-07 1210	1		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Sampled By and Released By: <u>Robert R. Uy</u>	Time: <u>1220</u>	Date: <u>2-5-07</u>
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Received By: <u>Jessica Reade</u>	Time: <u>1220</u>	Date: <u>2-5-07</u>
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Released By: <u>Jessica Reade</u>	Time: <u>15:00</u>	Date: <u>2-6-07</u>
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Received By: <u>[Signature]</u>	Time: <u>0935</u>	Date: <u>2/7/07</u>
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Sample Receipt Checklist

Client Name PALL

Date/Time Received: 2/7/2007 9:35:00 AM

Work Order Number 0702143

Received by: AJK

Checklist completed by [Signature] 2/7/07
Signature Date

Reviewed by [Signature]
Initials Date

Matrix:

Carrier name: UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? 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): 0.6 C

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____
