



600 South Wagner Road
Ann Arbor, MI 48103-6019
Phone: 734-913-6130
Fax: 734-913-6103

Sample Analysis Report

December, 2006

Analyst Initials *M*
Date 01/04/07

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-3-12-04-06-08:15	74	1.0		5.0		10.0	
HZ-S-12-04-06-12:04	1332	1.0		5.0		10.0	
LB-1-12-04-06-08:10	470	1.0		5.0		10.0	
LB-3-12-04-06-08:12	525	1.0		5.0		10.0	
PW-1-12-04-06-07:38	1000	1.0		5.0		10.0	
DOLPH-12-04-06-11:23	102	1.0		5.0		10.0	
TW-5-12-04-06-11:32	932	1.0		5.0		10.0	
TW-6-12-04-06-07:43	190	1.0		5.0		10.0	
TW-8-12-04-06-12:35	656	1.0		5.0		10.0	
TW-9-12-04-06-11:57	1527	1.0		5.0		10.0	
TW-10-12-04-06-11:53	2166	1.0		5.0		10.0	
TW-11-12-04-06-11:36	341	1.0		5.0		10.0	
TW-12-12-04-06-11:27	49	1.0		5.0		10.0	
TW-13-12-04-06-12:19	455	1.0		5.0		10.0	
TW-14-12-04-06-12:10	172	1.0		5.0		10.0	
TW-17-12-04-06-12:13	168	1.0		5.0		10.0	
TW-18-12-04-06-07:45	945	1.0		5.0		10.0	
TW-19-12-04-06-08:40	754	1.0	nd	5.0		10.0	
TW-19-12-11-06-08:12	763	1.0	nd	5.0		10.0	
TW-19-12-18-06-08:22	762	1.0	nd	5.0		10.0	
TW-19-12-26-06-10:01	772	1.0	nd	5.0		10.0	
TW-20-12-04-06-11:47	5080	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-50-12-04-06-12:38	353	1.0		5.0		10.0	
SW-COMB-12-04-06-07:41	580	1.0		5.0		10.0	
RED POND							
Red Pond-12-04-06-07:35	935	1.0		5.0	118	10.0	
Red Pond-12-11-06-07:12	876	1.0		5.0	103	10.0	
Red Pond-12-21-06-07:35	924	1.0		5.0	128	10.0	
Red Pond-12-26-06-08:55	902	1.0		5.0	128	10.0	
OUTFALL001							
OUTFALL-12-03-06-	5	1.0	nd	5.0		10.0	
OUTFALL-12-04-06-	5	1.0	nd	5.0		10.0	
OUTFALL-12-05-06-	5	1.0	nd	5.0		10.0	
OUTFALL-12-06-06-	5	1.0	nd	5.0		10.0	
OUTFALL-12-07-06-	4	1.0	nd	5.0		10.0	
OUTFALL-12-10-06-	5	1.0	nd	5.0		10.0	
OUTFALL-12-11-06-	5	1.0	nd	5.0		10.0	
OUTFALL-12-12-06-	5	1.0	nd	5.0		10.0	
OUTFALL-12-13-06-	5	1.0	nd	5.0		10.0	
OUTFALL-12-20-06-	4	1.0	nd	5.0		10.0	
OUTFALL-12-20-06-15:00	3	1.0	nd	5.0		10.0	
OUTFALL-12-21-06-	5	1.0	5	5.0		10.0	
OUTFALL-12-24-06-	5	1.0	5	5.0		10.0	
OUTFALL-12-26-06-	4	1.0	nd	5.0		10.0	
OUTFALL-12-27-06-	4	1.0	nd	5.0		10.0	
OUTFALL-12-28-06-	4	1.0	nd	5.0		10.0	
D0							
MW-53i-12-04-06-09:25	48	1.0		5.0		10.0	
A2 Cleaning Supply-12-07-06-12:00	108	1.0		5.0		10.0	
D2							

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
D2							
MW-92-12-04-06-13:00	19	1.0		5.0		10.0	
545 Allison-12-04-06-12:30	7	1.0		5.0		10.0	
E							
MW-79s-12-11-06-10:10	360	1.0		5.0		10.0	
MW-81-12-11-06-13:15	382	1.0		5.0		10.0	
MW-85-12-08-06-14:05	1495	1.0		5.0		10.0	
MW-88-12-11-06-09:35	153	1.0		5.0		10.0	
MW-89-12-11-06-10:40	nd	1.0		5.0		10.0	
MW-90-12-11-06-11:05	18	1.0		5.0		10.0	
MW-91-12-11-06-12:40	1	1.0		5.0		10.0	
MW-107-12-04-06-12:15	49	1.0		5.0		10.0	
MW-108s-12-08-06-11:55	2736	1.0		5.0		10.0	
MW-108d-12-08-06-11:25	3600	1.0		5.0		10.0	
TW-15-12-12-06-12:00	105	1.0		5.0		10.0	
Not Determined							
MW-100-12-11-06-14:05	12	1.0		5.0		10.0	
MW-101-12-04-06-11:50	348	1.0		5.0		10.0	
MW-104-12-04-06-13:35	nd	1.0		5.0		10.0	
None							
Maple-Inj-12-01-06-08:55	8	1.0	nd	5.0		10.0	
Maple-Inj-12-04-06-08:35	8	1.0	nd	5.0		10.0	
Maple-Inj-12-05-06-09:05	9	1.0	nd	5.0		10.0	
Maple-Inj-12-06-06-08:10	10	1.0	nd	5.0		10.0	
Maple-Inj-12-07-06-08:20	10	1.0	nd	5.0		10.0	
Maple-Inj-12-08-06-08:15	7	1.0	6	5.0		10.0	
Maple-Inj-12-11-06-08:08	9	1.0	5	5.0		10.0	
Maple-Inj-12-12-06-09:25	8	1.0	nd	5.0		10.0	
Maple-Inj-12-13-06-08:00	9	1.0	nd	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
None							
Maple-Inj-12-14-06-08:00	8	1.0	5	5.0		10.0	
Maple-Inj-12-15-06-08:00	9	1.0	5	5.0		10.0	
Maple-Inj-12-18-06-08:20	9	1.0	nd	5.0		10.0	
Maple-Inj-12-19-06-07:55	9	1.0	nd	5.0		10.0	
Maple-Inj-12-20-06-15:10	10	1.0	5	5.0		10.0	
Maple-Inj-12-21-06-08:15	8	1.0	5	5.0		10.0	
Maple-Inj-12-22-06-08:10	7	1.0	6	5.0		10.0	
Maple-Inj-12-26-06-10:00	6	1.0	6	5.0		10.0	
Maple-Inj-12-27-06-10:35	7	1.0	5	5.0		10.0	
Maple-Inj-12-28-06-10:50	7	1.0	5	5.0		10.0	
Maple-Inj-12-29-06-10:17	7	1.0	6	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:
12/1/2006	0	10.00	9.08	90.8%	10.00	9.13	91.3%	5.29	10.00	13.97	15.31	86.8%	100.2%	14.64	6.47%	9.15%
12/4/2006	0	10.00	8.33	83.3%	10.00	8.79	87.9%	8.11	10.00	18.43	18.64	103.2%	105.3%	18.54	0.80%	1.13%
12/5/2006	0	10.00	8.81	88.1%	10.00	9.02	90.2%	4.71	10.00	14.84	14.88	101.3%	101.7%	14.86	0.19%	0.27%
12/6/2006	0	10.00	8.97	89.7%	10.00	8.82	88.2%	4.65	10.00	13.96	13.32	93.1%	86.7%	13.64	3.32%	4.69%
12/7/2006	0	10.00	9.03	90.3%	10.00	9.06	90.6%	4.69	10.00	14.14	14.49	94.5%	98%	14.32	1.73%	2.44%
12/8/2006	0	10.00	8.59	85.9%	10.00	8.65	86.5%	6.93	10.00	15.57	16.53	86.4%	96%	16.05	4.23%	5.98%
12/11/2006	0	10.00	8.57	85.7%	10.00	8.50	85%	4.79	10.00	13.38	13.86	85.9%	90.7%	13.62	2.49%	3.52%
12/12/2006	0	10.00	8.74	87.4%	10.00	8.67	86.7%	5.29	10.00	13.48	14.08	81.9%	87.9%	13.78	3.08%	4.35%
12/13/2006	0	10.00	8.66	86.6%	10.00	8.73	87.3%	4.97	10.00	13.06	13.28	80.9%	83.1%	13.17	1.18%	1.67%
12/14/2006	0	10.00	8.51	85.1%	10.00	8.22	82.2%	5.04	10.00	14.36	14.43	93.2%	93.9%	14.40	0.34%	0.49%
12/15/2006	0	10.00	8.58	85.8%	10.00	8.40	84%	9.29	10.00	18.60	19.21	93.1%	99.2%	18.91	2.28%	3.23%
12/18/2006	0	10.00	8.46	84.6%	10.00	8.70	87%	8.90	10.00							
12/19/2006	0	10.00	8.61	86.1%	10.00	8.39	83.9%	9.26	10.00							
12/20/2006	0	10.00	8.61	86.1%	10.00	8.67	86.7%		10.00							
12/21/2006	0	10.00	8.18	81.8%	10.00	9.60	96%	4.26	10.00	14.03	12.85	97.7%	85.9%	13.44	6.21%	8.78%
12/22/2006	0	10.00	8.61	86.1%	10.00	8.64	86.4%	4.69	10.00	13.87	14.68	91.8%	99.9%	14.28	4.01%	5.67%
12/26/2006	0	10.00	9.30	93.0%	10.00	9.32	93.2%	4.73	10.00	14.34	14.17	96.1%	94.4%	14.26	0.84%	1.19%
12/29/2006	0	10.00	8.92	89.2%	10.00	8.92	89.2%	4.45	10.00	14.24	13.87	97.9%	94.2%	14.06	1.86%	2.63%

CVS Mean: 8.70 CVS Standard Dev: 0.28 3 Standard Dev.: 0.84 Lower Control Limit: 7.86 Upper Control Limit: 9.53



e-Lab Analytical, Inc

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

December 22, 2006

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 : **0612151**

Dear Wendy,

e-Lab Analytical, Inc received 1 sample on 12/7/2006 10:00:00 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. 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,

Bill Carey

Electronically approved by: Bill Carey

Bill Carey
Project Manager



Certificate No: IL100452

e-Lab Analytical, Inc

Date: December 22, 2006

CLIENT: Pall Life Sciences
Project: Oxalic Acid Analysis
Work Order: 0612151

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>
0612151-01	Outfall 001-12-4-06-1142	Water		12/4/2006 11:42	12/7/2006 10:00	<input type="checkbox"/>

e-Lab Analytical, Inc

Date: December 22, 2006

CLIENT: Pall Life Sciences
Project: Oxalic Acid Analysis

Work Order: 0612151

Lab ID: 0612151-01A
Client Sample ID: Outfall 001-12-4-06-1142

Collection Date: 12/4/2006 11:42:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
ORGANIC ACIDS BY HPLC				HPLC		Analyst: RM
Oxalic acid	ND	150		µg/L	1	12/14/2006

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: Dec 22 2006

CLIENT: Pall Life Sciences
 Work Order: 0612151
 Project: Oxalic Acid Analysis

QC BATCH REPORT

Batch ID: R44826 Instrument ID HPLC1 Method: HPLC

MBLK Sample ID: **MB-R44826** Units: **mg/L** Analysis Date: **12/14/06 0:00**
 Client ID: Run ID: **HPLC1_061214A** SeqNo: **704131** 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-R44826** Units: **mg/L** Analysis Date: **12/14/06 0:00**
 Client ID: Run ID: **HPLC1_061214A** SeqNo: **704132** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	496	0.15	500	0	99.2	80-120		0		

LCSD Sample ID: **LCSD-R44826** Units: **mg/L** Analysis Date: **12/14/06 0:00**
 Client ID: Run ID: **HPLC1_061214A** SeqNo: **704136** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	497.2	0.15	500	0	99.4	80-120	496	0.234	20	

MS Sample ID: **0612151-01A MS** Units: **mg/L** Analysis Date: **12/14/06 0:00**
 Client ID: **Outfall 001-12-4-06-1142** Run ID: **HPLC1_061214A** SeqNo: **704134** Prep Date: DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	842.8	0.30	1000	0	84.3	45-85		0		

MSD Sample ID: **0612151-01A MSD** Units: **mg/L** Analysis Date: **12/14/06 0:00**
 Client ID: **Outfall 001-12-4-06-1142** Run ID: **HPLC1_061214A** SeqNo: **704135** Prep Date: DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	803.9	0.30	1000	0	80.4	45-85	842.8	4.73	20	

The following samples were analyzed in this batch: 0612151-01A

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

Environmental Laboratory Services
 600 South Wagner Rd. Ann Arbor, MI 48103-9019
 Phone: (734)-913-6598 * Fax: (734)-913-6427

CHAIN OF CUSTODY RECORD

#	Sample ID-Date Collected-Time Collected	1,4-Dioxane			Bromate			Other:			Static Time	Static Result	Comments
1	out of 11001-12-4-06-1142								1		.	grab, oxalic acid	
2											.		
3											.		
4											.		
5											.		
6											.		
7											.		
8											.		
9											.		
10											.		
11											.		
12											.		
13											.		
14											.		
15											.		

RELEASED BY: <i>Jul C</i>	Date: 12/4/06	Time: 1320	RELEASED BY: <i>Jessica Reade</i>	Date: 12/6/06	Time: 0930
RECEIVED BY: <i>Jessica Reade</i>	Date: 12/4/06	Time: 1320	RECEIVED BY: <i>[Signature]</i>	Date: 1/1	Time:

5.000

Sample Receipt Checklist

Client Name PALL

Date/Time Received: 12/7/2006 10:00:00 AM

Work Order Number 0612151

Received by: AJK

Checklist completed by

[Signature]

12/7/06

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):

5.8 C

Water - VOA vials have zero headspace?

Yes

No

No VOA vials submitted

Water - pH acceptable upon receipt?

Yes

No

N/A

Adjusted? _____ Checked b _____

Login Notes:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____