

**Sample Analysis Report**

**April, 2009**

Analyst Initials JR  
Date 05/05/09

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
<b>Extraction Wells</b>							
AE-3-04-06-09-08:36	110	1.0		5.0		10.0	
HZ-S-04-06-09-12:10	975	1.0		5.0		10.0	
LB-1-04-06-09-08:32	535	1.0		5.0		10.0	
LB-3-04-06-09-08:34	538	1.0		5.0		10.0	
PW-1-04-06-09-11:36	903	1.0		5.0		10.0	
SW-COMB-04-06-09-11:42	550	1.0		5.0		10.0	
TW-1-04-30-09-11:45	182	1.0		5.0		10.0	
DOLPH-04-06-09-11:40	100	1.0		5.0		10.0	
TW-3-04-30-09-11:55	66	1.0		5.0		10.0	
TW-4-04-28-09-14:55	35	1.0		5.0		10.0	
TW-5-04-06-09-12:25	1055	1.0		5.0		10.0	
TW-8-04-06-09-11:35	507	1.0		5.0		10.0	
TW-9-04-06-09-12:12	1324	1.0		5.0		10.0	
TW-11-04-30-09-11:45	See Comments	1.0		5.0		10.0	Entry error. Well was not sampled this month.
TW-12-04-30-09-11:35	19	1.0		5.0		10.0	
TW-13-04-06-09-11:20	604	1.0		5.0		10.0	
TW-18-04-06-09-11:38	402	1.0		5.0		10.0	
TW-19-04-06-09-08:20	932	1.0		5.0		10.0	
TW-19-04-13-09-12:05	984	1.0		5.0		10.0	
TW-19-04-20-09-08:40	863	1.0		5.0		10.0	
TW-19-04-27-09-08:35	899	1.0		5.0		10.0	
TW-20-04-06-09-11:50	1803	1.0		5.0		10.0	
<b>TEMPORARY EXTRACTION WELLS</b>							

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
<b>TEMPORARY EXTRACTION WELLS</b>							
MW-11d-04-29-09-11:45	290	1.0		5.0		10.0	
MW-50-04-06-09-11:37	896	1.0		5.0		10.0	
MW-64-04-29-09-10:15	71	1.0		5.0		10.0	
<b>RED POND</b>							
Red Pond-04-06-09-08:20	649	1.0		5.0		10.0	
Red Pond-04-13-09-07:26	623	1.0		5.0		10.0	
Red Pond-04-20-09-07:43	637	1.0		5.0		10.0	
Red Pond-04-27-09-08:00	680	1.0		5.0		10.0	
<b>OUTFALL001</b>							
OUTFALL-04-01-09-	7	1.0	5	5.0		10.0	
OUTFALL-04-02-09-	6	1.0	5	5.0		10.0	
OUTFALL-04-05-09-	6	1.0	6	5.0		10.0	
OUTFALL-04-06-09-	5	1.0	6	5.0		10.0	
OUTFALL-04-07-09-	4	1.0	6	5.0		10.0	
OUTFALL-04-08-09-	5	1.0	5	5.0		10.0	
OUTFALL-04-09-09-	5	1.0	5	5.0		10.0	
OUTFALL-04-12-09-	5	1.0	5	5.0		10.0	
OUTFALL-04-19-09-	8	1.0	nd	5.0		10.0	
OUTFALL-04-20-09-	8	1.0	nd	5.0		10.0	
OUTFALL-04-21-09-	6	1.0	nd	5.0		10.0	
OUTFALL-04-22-09-	6	1.0	5	5.0		10.0	
OUTFALL-04-23-09-	5	1.0	5	5.0		10.0	
OUTFALL-04-26-09-	8	1.0	nd	5.0		10.0	
OUTFALL-04-27-09-	8	1.0	nd	5.0		10.0	
OUTFALL-04-28-09-	5	1.0	6	5.0		10.0	
OUTFALL-04-29-09-	5	1.0	6	5.0		10.0	
OUTFALL-04-30-09-	5	1.0	5	5.0		10.0	
<b>Injection Wells</b>							

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<b>Injection Wells</b>							
IW-2-04-27-09-14:40	37	1.0		5.0		10.0	
Maple-Inj-04-02-09-08:30	14	1.0	nd	5.0		10.0	
Maple-Inj-04-06-09-08:15	12	1.0	nd	5.0		10.0	
Maple-Inj-04-13-09-12:00	13	1.0	nd	5.0		10.0	
Maple-Inj-04-16-09-07:50	6	1.0	nd	5.0		10.0	
Maple-Inj-04-20-09-08:30	9	1.0	nd	5.0		10.0	
Maple-Inj-04-23-09-08:10	8	1.0	nd	5.0		10.0	
Maple-Inj-04-27-09-08:30	9	1.0	nd	5.0		10.0	
Maple-Inj-04-30-09-08:35	7	1.0	6	5.0		10.0	
<b>A-Series Wells</b>							
MW-112s-04-20-09-09:30	nd	1.0		5.0		10.0	
MW-112i-04-20-09-10:45	5	1.0		5.0		10.0	
MW-112d-04-20-09-10:10	nd	1.0		5.0		10.0	
<b>C3</b>							
MW-1-04-23-09-11:10	479	1.0		5.0		10.0	
MW-5d-04-29-09-14:10	24754	1.0		5.0		10.0	
MW-11i-04-29-09-12:15	13	1.0		5.0		10.0	
MW-18d-04-24-09-14:10	282	1.0		5.0		10.0	
MW-22-04-29-09-12:45	2620	1.0		5.0		10.0	
MW-37-04-24-09-13:45	310	1.0		5.0		10.0	
MW-39s-04-27-09-12:00	34	1.0		5.0		10.0	
MW-75-04-28-09-14:15	257	1.0		5.0		10.0	
MW-105s-04-21-09-09:40	1781	1.0		5.0		10.0	
<b>D0</b>							
MW-41s-04-10-09-09:32	20	1.0		5.0		10.0	
MW-41d-04-10-09-09:30	36	1.0		5.0		10.0	
MW-53i-04-10-09-10:15	38	1.0		5.0		10.0	
5005 Jackson Rd-04-28-09-11:00	37	1.0		5.0		10.0	

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<b>D0</b>							
A2 Cleaning Supply-04-02-09-14:35	98	1.0		5.0		10.0	
<b>D2</b>							
MW-4d-04-23-09-10:45	658	1.0		5.0		10.0	
MW-17-04-02-09-12:50	764	1.0		5.0		10.0	
MW-30i-04-07-09-10:30	nd	1.0		5.0		10.0	
MW-38d-04-24-09-13:20	104	1.0		5.0		10.0	
MW-39d-04-27-09-12:25	307	1.0		5.0		10.0	
MW-47s-04-24-09-09:10	nd	1.0		5.0		10.0	
MW-47d-04-24-09-09:30	nd	1.0		5.0		10.0	
MW-54s-04-23-09-13:15	nd	1.0		5.0		10.0	
MW-54d-04-23-09-12:55	15	1.0		5.0		10.0	
MW-56s-04-02-09-08:50	118	1.0		5.0		10.0	
MW-77-04-23-09-14:40	882	1.0		5.0		10.0	
MW-92-04-24-09-08:45	21	1.0		5.0		10.0	
MW-94s-04-28-09-12:20	2306	1.0		5.0		10.0	
MW-113-04-22-09-14:10	32	1.0		5.0		10.0	
MW-118-04-02-09-13:25	214	1.0		5.0		10.0	
MW-120s-04-22-09-12:05	nd	1.0		5.0		10.0	
MW-121s-04-22-09-11:35	nd	1.0		5.0		10.0	
MW-121d-04-22-09-11:20	nd	1.0		5.0		10.0	
MW-122s-04-24-09-11:10	66	1.0		5.0		10.0	
MW-122d-04-24-09-10:40	nd	1.0		5.0		10.0	
MW-BE-1s-04-27-09-10:50	501	1.0		5.0		10.0	
MW-BE-1d-04-27-09-10:30	4	1.0		5.0		10.0	
MW-KD-1s-04-22-09-13:00	30	1.0		5.0		10.0	
MW-KD-1d-04-22-09-13:15	161	1.0		5.0		10.0	
MW-KZ-1-04-27-09-15:05	nd	1.0		5.0		10.0	
545 Allison-04-10-09-11:15	14	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
<b>D2</b>							
593 Allison-04-24-09-12:10	508	1.0		5.0		10.0	
430 Barber West-04-23-09-13:55	32	1.0		5.0		10.0	
435 Barber-04-27-09-13:35	11	1.0		5.0		10.0	
MW-400 Clarendon-04-27-09-11:15	nd	1.0		5.0		10.0	
456 Clarendon-04-27-09-11:30	681	1.0		5.0		10.0	
2652 Dexter Rd-04-10-09-11:40	2	1.0		5.0		10.0	
2819 Dexter Rd-04-10-09-12:30	864	1.0		5.0		10.0	
3225 Dexter Rd-04-23-09-12:10	nd	1.0		5.0		10.0	
3249 Dexter Rd-04-23-09-12:00	nd	1.0		5.0		10.0	
453 Dupont-04-23-09-14:20	3	1.0		5.0		10.0	
3365 Jackson Rd-04-22-09-10:15	356	1.0		5.0		10.0	
175 Jackson Plaza-04-21-09-10:45	771	1.0		5.0		10.0	
305 Pinewood-04-01-09-10:50	nd	1.0		5.0		10.0	
373 Pinewood Shallow-04-28-09-10:35	853	1.0		5.0		10.0	
<b>E</b>							
MW-30d-04-07-09-11:35	1194	1.0		5.0		10.0	
MW-65d-04-27-09-09:50	33	1.0		5.0		10.0	
MW-71-04-22-09-09:00	1277	1.0		5.0		10.0	
MW-72s-04-08-09-11:55	25	1.0		5.0		10.0	
MW-72d-04-08-09-12:45	3007	1.0		5.0		10.0	
MW-76s-04-23-09-08:50	140	1.0		5.0		10.0	
MW-76i-04-23-09-09:30	20	1.0		5.0		10.0	
MW-76d-04-23-09-10:15	3	1.0		5.0		10.0	
MW-79s-04-02-09-10:35	460	1.0		5.0		10.0	
MW-79d-04-02-09-10:05	3	1.0		5.0		10.0	
MW-81-04-08-09-10:50	503	1.0		5.0		10.0	
MW-82s-04-07-09-13:30	62	1.0		5.0		10.0	
MW-83s-04-02-09-12:15	520	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
<b>E</b>							
MW-84s-04-08-09-10:05	609	1.0		5.0		10.0	
MW-84d-04-08-09-09:35	nd	1.0		5.0		10.0	
MW-85-04-03-09-14:10	1847	1.0		5.0		10.0	
MW-87s-04-01-09-11:10	13	1.0		5.0		10.0	
MW-87d-04-01-09-11:40	628	1.0		5.0		10.0	
MW-88-04-02-09-11:10	460	1.0		5.0		10.0	
MW-90-04-07-09-14:35	57	1.0		5.0		10.0	
MW-91-04-07-09-14:05	7	1.0		5.0		10.0	
MW-94d-04-28-09-12:00	nd	1.0		5.0		10.0	
MW-95-04-28-09-13:05	89	1.0		5.0		10.0	
MW-96-04-21-09-13:40	168	1.0		5.0		10.0	
MW-98s-04-09-09-10:20	nd	1.0		5.0		10.0	
MW-98d-04-09-09-11:00	8	1.0		5.0		10.0	
MW-100-04-01-09-10:35	253	1.0		5.0		10.0	
MW-101-04-09-09-13:10	407	1.0		5.0		10.0	
MW-103s-04-09-09-12:15	30	1.0		5.0		10.0	
MW-103d-04-09-09-11:55	17	1.0		5.0		10.0	
MW-104-04-09-09-13:50	nd	1.0		5.0		10.0	
MW-105d-04-21-09-09:30	654	1.0		5.0		10.0	
MW-106s-04-08-09-14:10	771	1.0		5.0		10.0	
MW-106d-04-08-09-13:45	nd	1.0		5.0		10.0	
MW-107-04-10-09-10:50	25	1.0		5.0		10.0	
MW-108s-04-21-09-11:55	2464	1.0		5.0		10.0	
MW-108d-04-21-09-12:35	2814	1.0		5.0		10.0	
MW-110-04-09-09-14:25	28	1.0		5.0		10.0	
MW-115-04-01-09-13:40	864	1.0		5.0		10.0	
MW-116-04-01-09-14:15	491	1.0		5.0		10.0	
MW-117-04-22-09-14:35	3	1.0		5.0		10.0	

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<b>E</b>							
MW-119-04-03-09-09:35	240	1.0		5.0		10.0	
MW-120d-04-22-09-12:40	nd	1.0		5.0		10.0	
TW-15-04-03-09-12:10	163	1.0		5.0		10.0	
373 Pinewood Deep-04-28-09-10:05	nd	1.0		5.0		10.0	
<b>SW</b>							
MW-10d-04-24-09-14:30	1083	1.0		5.0		10.0	
MW-45s-04-28-09-14:00	14	1.0		5.0		10.0	
MW-45d-04-28-09-13:40	335	1.0		5.0		10.0	
MW-48-04-29-09-13:30	134	1.0		5.0		10.0	
MW-52s-04-24-09-14:55	781	1.0		5.0		10.0	
MW-58s-04-24-09-12:55	207	1.0		5.0		10.0	
MW-78-04-29-09-09:15	32	1.0		5.0		10.0	
<b>None</b>							
HC/HR-04-01-09-08:20		1.0	nd	2.0		10.0	
HC/HR-04-02-09-07:25		1.0	nd	2.0		10.0	
HC/HR-04-03-09-08:25		1.0	nd	2.0		10.0	
HC/HR-04-06-09-07:50		1.0	nd	2.0		10.0	
HC/HR-04-07-09-08:15		1.0	nd	2.0		10.0	
HC/HR-04-08-09-08:00		1.0	nd	2.0		10.0	
HC/HR-04-09-09-08:15		1.0	nd	2.0		10.0	
HC/HR-04-10-09-08:35		1.0	nd	2.0		10.0	
HC/HR-04-13-09-07:45		1.0	nd	2.0		10.0	
HC/HR-04-14-09-07:50		1.0	nd	2.0		10.0	
HC/HR-04-15-09-07:40		1.0	nd	2.0		10.0	
HC/HR-04-16-09-07:40		1.0	nd	2.0		10.0	
HC/HR-04-17-09-07:30		1.0	nd	2.0		10.0	
HC/HR-04-20-09-07:50		1.0	nd	2.0		10.0	
HC/HR-04-21-09-07:40		1.0	nd	2.0		10.0	

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<b>None</b>							
HC/HR-04-22-09-08:00		1.0	nd	2.0		10.0	
HC/HR-04-23-09-07:45		1.0	nd	2.0		10.0	
HC/HR-04-24-09-07:55		1.0	nd	2.0		10.0	
HC/HR-04-27-09-08:05		1.0	nd	2.0		10.0	
HC/HR-04-28-09-08:05		1.0	nd	2.0		10.0	
HC/HR-04-29-09-07:45		1.0	nd	2.0		10.0	
HC/HR-04-30-09-08:25		1.0	nd	2.0		10.0	

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



# 1,4-Dioxane Precision and Accuracy Control Charting

<i>Analysis Date</i>	<i>Method Blank</i>	<i>CVS True Value</i>	<i>CVS Result</i>	<i>CVS % Recovery</i>	<i>LFB True Value:</i>	<i>LFB Result:</i>	<i>LFB % Recovery:</i>	<i>Sample Result:</i>	<i>MS/MSD True Value:</i>	<i>MS Result:</i>	<i>MSD Result:</i>	<i>MS % Recovery:</i>	<i>MSD % Recovery:</i>	<i>MS/MSD Mean:</i>	<i>MS/MSD RSD:</i>	<i>MS/MSD RPD:</i>
4/1/2009	0	10.00	10.04	100.4%	10.00	10.20	102.0%	6.02	10.00	15.65	16.15	96.3%	101.3%	15.90	3.14%	
4/2/2009	0	10.00	9.95	99.5%	10.00	10.81	108.1%	13.81	10.00	22.79	24.83	89.8%	110.2%	23.81	8.57%	
4/3/2009	0	10.00	10.44	104.4%	10.00	10.72	107.2%	6.58	10.00	16.91	18.00	103.3%	114.2%	17.46	6.24%	
4/6/2009	0	10.00	10.38	103.8%	10.00	10.98	109.8%	11.80	10.00	23.07	23.19	112.7%	113.9%	23.13	0.52%	
4/7/2009	0	10.00	10.48	104.8%	10.00	10.57	105.7%	5.05	10.00	15.72	15.80	106.7%	107.5%	15.76	0.51%	
4/8/2009	0	10.00	10.06	100.6%	10.00	10.66	106.6%	4.57	10.00	14.52	15.14	99.5%	105.7%	14.83	4.18%	
4/9/2009	0	10.00	10.40	104.0%	10.00	10.17	101.7%	4.93	10.00	15.44	15.82	105.1%	108.9%	15.63	2.43%	
4/10/2009	0	10.00	9.69	96.9%	10.00	10.22	102.2%	5.04	10.00	14.55	15.11	95.1%	100.7%	14.83	3.78%	
4/13/2009	0	10.00	10.29	102.9%	10.00	10.68	106.8%	5.16	10.00	15.68	15.56	105.2%	104.0%	15.62	0.77%	
4/16/2009	0	10.00	10.33	103.3%	10.00	10.34	103.4%	6.51	10.00	16.67	16.39	101.6%	98.8%	16.53	1.69%	
4/20/2009	0	10.00	10.09	100.9%	10.00	10.43	104.3%	9.17	10.00	18.31	19.42	91.4%	102.5%	18.87	5.88%	
4/23/2009	0	10.00	10.14	101.4%	10.00	10.31	103.1%	8.47	10.00	18.02	18.89	95.5%	104.2%	18.46	4.71%	
4/24/2009	0	10.00	10.41	104.1%	10.00	10.66	106.6%	5.48	10.00	16.12	15.69	106.4%	102.1%	15.91	2.70%	
4/27/2009	0	10.00	10.30	103.0%	10.00	10.41	104.1%	7.72	10.00	18.57	18.58	108.5%	108.6%	18.58	0.05%	
4/28/2009	0	10.00	10.02	100.2%	10.00	10.38	103.8%	7.59	10.00	17.50	17.79	99.1%	102.0%	17.65	1.64%	
	0	10.00	10.30	103.0%	10.00	10.15	101.5%		10.00							
4/29/2009	0	10.00	10.22	102.2%	10.00	10.37	103.7%	5.16	10.00	15.77	15.87	106.1%	107.1%	15.82	0.63%	
	0	10.00	10.16	101.6%	10.00	10.42	104.2%		10.00							
4/30/2009	0	10.00	10.18	101.8%	10.00	10.58	105.8%	5.17	10.00	15.42	15.81	102.5%	106.4%	15.62	2.50%	

CVS Mean: **10.20**      2 Standard Dev.: **0.40**      Upper Warning Limit: **10.60**      Upper Control Limit: **10.80**  
 CVS Standard Dev: **0.20**      3 Standard Dev.: **.60**      Lower Warning Limit: **9.81**      Lower Control Limit: **9.61**

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# ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



## Environmental Division

09-Apr-09

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 4/2/09

Work Order : 0904035

Dear Wendy,

ALS Laboratory Group received 1 sample on 4/3/2009 10:40 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group 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 ALS Laboratory Group. 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: Ann Preston

Ann Preston  
Project Manager



Certificate No: IL100452

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### ALS USA MI, CORP

Part of the **ALS Laboratory Group**

3352 128th Avenue Holland, Michigan 49424-9263

Phone: (616) 399-6070 Fax: (616) 399-6185

[www.alsglobal.com](http://www.alsglobal.com)

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**Client:** Pall Life Sciences  
**Project:** Oxalic Acid Analysis 4/2/09  
**Work Order:** 0904035

**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>
0904035-01	Outfall 001	Water		4/2/2009 08:40	4/3/2009 10:40	<input type="checkbox"/>

**ALS Laboratory Group**

Date: 09-Apr-09

Client: Pall Life Sciences  
Project: Oxalic Acid Analysis 4/2/09

Work Order: 0904035

Lab ID: 0904035-01A  
Client Sample ID: Outfall 001

Collection Date: 4/2/2009 8:40:00 AM  
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>ORGANIC ACIDS BY HPLC</b>			<b>HPLC</b>			Analyst: <b>JD</b>
Oxalic acid	ND		150	µg/L	1	4/8/2009

**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  
a - Not accredited

S - Spike Recovery outside accepted recovery limits  
P - Dual Column results RPD > 40%  
E - Value above quantitation range  
H - Analyzed outside of Hold Time  
n - Not offered for accreditation

ALS Laboratory Group

Date: 09-Apr-09

Client: Pall Life Sciences  
 Work Order: 0904035  
 Project: Oxalic Acid Analysis 4/2/09

QC BATCH REPORT

Batch ID: R67066 Instrument ID HPLC1 Method: HPLC

MBLK		Sample ID: MB-R67066-R67066			Units: mg/L		Analysis Date: 4/8/2009			
Client ID:		Run ID: HPLC1_090408A			SeqNo: 1130117		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-R67066-R67066			Units: mg/L		Analysis Date: 4/8/2009			
Client ID:		Run ID: HPLC1_090408A			SeqNo: 1130118		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	483.7	0.15	500	0	96.7	80-120	0			

LCSD		Sample ID: LCSD-R67066-R67066			Units: mg/L		Analysis Date: 4/8/2009			
Client ID:		Run ID: HPLC1_090408A			SeqNo: 1130122		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	484	0.15	500	0	96.8	80-120	483.7	0.0643	20	

MS		Sample ID: 0904035-01A MS			Units: mg/L		Analysis Date: 4/8/2009			
Client ID: Outfall 001		Run ID: HPLC1_090408A			SeqNo: 1130120		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	770.6	0.30	1000	0	77.1	45-85	0			

MSD		Sample ID: 0904035-01A MSD			Units: mg/L		Analysis Date: 4/8/2009			
Client ID: Outfall 001		Run ID: HPLC1_090408A			SeqNo: 1130121		Prep Date:		DF: 2	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	766.5	0.30	1000	0	76.7	45-85	770.6	0.534	20	

The following samples were analyzed in this batch:

0904035-01A

- 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

0904035



**Environmental Laboratory Services**  
 600 South Wagner Rd. Ann Arbor, MI 48103-9019  
 Phone: (734)-913-6598 \* Fax: (734)-913-6427 6103

**Chain of Custody Record**

Page 1 of 1

Company Pall Corporation  
 Name Wendy Schultz  
 Street 600 S Wagner Rd  
 City Ann Arbor State MI Zip 48103  
 Phone (734) 913-6598 Fax (734) 913-6103

Required Completion Date: 1/1/ Fax the Report: Yes / No  
 Requested Turnaround: Standard \* 4 business days \* 48 hours  
 24 hours \* 3 business days \* ASAP/Same day  
 Project Name / Number: oxalic acid  
 Print Sampler Name: Robert Ursing

	Sample Identification or Location (This will appear on the final report)	Sample Date	Sample Time	Water Matrix				Number of Containers	Requested Testing	Preservation					Lab ID
				Drinking	Ground	Surface	Waste			None	4°C	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	
1	Outfall 001	04/02/09	08:40	TREATED				1	oxalic acid	X					
2		/ /	:												
3		/ /	:												
4		/ /	:												
5		/ /	:												
6		/ /	:												
7		/ /	:												
8		/ /	:												
9		/ /	:												
10		/ /	:												
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12		/ /	:												
13		/ /	:												
14		/ /	:												
15		/ /	:												
Released by: <u>Robert Ursing</u>		Date: <u>04/02/09</u>	Time: <u>09:30</u>	Received by: <u>Jessica Reade</u>		Date: <u>04/02/09</u>	Time: <u>09:30</u>								
Released by: <u>Jessica Reade</u>		Date: <u>04/02/09</u>	Time: <u>10:30</u>	Received by: <u>[Signature]</u>		Date: <u>4/3/09</u>	Time: <u>10:40</u>								

PINK Copy - Sampler

WHITE copy and YELLOW copy - Forward to laboratory with samples.

Sample temperature upon laboratory receipt 21.2°C

ALS Laboratory Group

Sample Receipt Checklist

Client Name PALL

Date/Time Received: 4/3/2009 10:40

Work Order Number 0904035

Received by: ARB

Checklist completed by

[Signature] 4/3/09  
Signature Date

Reviewed by

[Signature] 4/3/09  
Initials Date

Matrix: water

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):

2.2 C

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt?

Yes  No  N/A

Adjusted? [Signature]

Checked by [Signature]

Login Notes:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_