

Sample Analysis Report

January, 2009

Analyst Initials: *[Signature]*
Date: 02/04/09

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
Extraction Wells							
AE-3-01-05-09-08:48	102	1.0		5.0		10.0	
HZ-S-01-06-09-09:30	960	1.0		5.0		10.0	
LB-1-01-05-09-08:46	484	1.0		5.0		10.0	
LB-3-01-05-09-08:47	509	1.0		5.0		10.0	
PW-1-01-06-09-10:40	1010	1.0		5.0		10.0	
SW-COMB-01-06-09-10:48	546	1.0		5.0		10.0	
DOLPH-01-06-09-10:46	88	1.0		5.0		10.0	
TW-5-01-06-09-08:55	950	1.0		5.0		10.0	
TW-6-01-06-09-10:44	109	1.0		5.0		10.0	
TW-8-01-06-09-09:55	501	1.0		5.0		10.0	
TW-9-01-06-09-09:22	1326	1.0		5.0		10.0	
TW-10-01-06-09-09:07	991	1.0		5.0		10.0	
TW-13-01-06-09-09:38	610	1.0		5.0		10.0	
TW-14-01-06-09-09:18	130	1.0		5.0		10.0	
TW-17-01-06-09-09:15	105	1.0		5.0		10.0	
TW-18-01-06-09-10:42	400	1.0		5.0		10.0	
TW-19-01-05-09-08:15	914	1.0		5.0		10.0	
TW-19-01-12-09-08:35	894	1.0		5.0		10.0	
TW-19-01-19-09-09:45	900	1.0		5.0		10.0	
TW-19-01-26-09-08:15	910	1.0		5.0		10.0	
TW-20-01-06-09-09:12	2329	1.0		5.0		10.0	
TEMPORARY EXTRACTION WELLS							
MW-50-01-06-09-09:58	751	1.0		5.0		10.0	
RED POND							

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
RED POND							
Red Pond-01-06-09-10:38	579	1.0		5.0		10.0	
Red Pond-01-12-09-08:25	545	1.0		5.0		10.0	
Red Pond-01-19-09-08:15	550	1.0		5.0		10.0	
Red Pond-01-26-09-08:00	507	1.0		5.0		10.0	
OUTFALL001							
OUTFALL-01-01-09-	5	1.0	6	5.0		10.0	
OUTFALL-01-04-09-	4	1.0	6	5.0		10.0	
OUTFALL-01-05-09-	6	1.0	6	5.0		10.0	
OUTFALL-01-06-09-	5	1.0	6	5.0		10.0	
OUTFALL-01-07-09-	5	1.0	nd	5.0		10.0	
OUTFALL-01-08-09-	5	1.0	5	5.0		10.0	
OUTFALL-01-11-09-	5	1.0	nd	5.0		10.0	
OUTFALL-01-12-09-	5	1.0	5	5.0		10.0	
OUTFALL-01-13-09-	5	1.0	5	5.0		10.0	
OUTFALL-01-14-09-	5	1.0	5	5.0		10.0	
OUTFALL-01-15-09-	5	1.0	6	5.0		10.0	
OUTFALL-01-18-09-	5	1.0	6	5.0		10.0	
OUTFALL-01-19-09-	5	1.0	6	5.0		10.0	
OUTFALL-01-20-09-	5	1.0	6	5.0		10.0	
OUTFALL-01-21-09-	4	1.0	nd	5.0		10.0	
OUTFALL-01-22-09-	5	1.0	5	5.0		10.0	
OUTFALL-01-25-09-	5	1.0	5	5.0		10.0	
OUTFALL-01-26-09-	5	1.0	6	5.0		10.0	
OUTFALL-01-27-09-	5	1.0	6	5.0		10.0	
OUTFALL-01-28-09-	6	1.0	5	5.0		10.0	
OUTFALL-01-29-09-	6	1.0	6	5.0		10.0	
Injection Wells							
Maple-Inj-01-02-09-08:40	13	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
Injection Wells							
Maple-Inj-01-05-09-08:10	11	1.0	nd	5.0		10.0	
Maple-Inj-01-06-09-08:05	10	1.0	nd	5.0		10.0	
Maple-Inj-01-07-09-08:15	14	1.0	nd	5.0		10.0	
Maple-Inj-01-08-09-08:10	11	1.0	nd	5.0		10.0	
Maple-Inj-01-09-09-08:20	9	1.0	5	5.0		10.0	
Maple-Inj-01-12-09-08:30	9	1.0	5	5.0		10.0	
Maple-Inj-01-13-09-08:25	16	1.0	nd	5.0		10.0	
Maple-Inj-01-14-09-08:40	8	1.0	nd	5.0		10.0	
Maple-Inj-01-15-09-08:20	8	1.0	6	5.0		10.0	
Maple-Inj-01-16-09-08:25	8	1.0	6	5.0		10.0	
Maple-Inj-01-19-09-09:40	12	1.0	nd	5.0		10.0	
Maple-Inj-01-20-09-08:30	10	1.0	5	5.0		10.0	
Maple-Inj-01-21-09-08:30	15	1.0	nd	5.0		10.0	
Maple-Inj-01-22-09-08:35	20	1.0	nd	5.0		10.0	
Maple-Inj-01-23-09-08:35	12	1.0	nd	5.0		10.0	
Maple-Inj-01-26-09-08:10	10	1.0	6	5.0		10.0	
Maple-Inj-01-27-09-08:10	13	1.0	nd	5.0		10.0	
Maple-Inj-01-28-09-08:35	16	1.0	nd	5.0		10.0	
Maple-Inj-01-29-09-08:40	14	1.0	nd	5.0		10.0	
Maple-Inj-01-30-09-08:30	17	1.0	nd	5.0		10.0	
A-Series Wells							
MW-112s-01-30-09-11:35	nd	1.0		5.0		10.0	
MW-112i-01-30-09-12:10	4	1.0		5.0		10.0	
MW-112d-01-30-09-12:50	nd	1.0		5.0		10.0	
C3							
MW-39s-01-20-09-11:40	28	1.0		5.0		10.0	
MW-105s-01-23-09-12:30	1704	1.0		5.0		10.0	
D0							

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
D0							
MW-53i-01-20-09-11:10	47	1.0		5.0		10.0	
5005 Jackson Rd-01-26-09-14:35	41	1.0		5.0		10.0	
A2 Cleaning Supply-01-13-09-13:50	97	1.0		5.0		10.0	
D2							
MW-38d-01-26-09-13:55	117	1.0		5.0		10.0	
MW-39d-01-20-09-12:00	242	1.0		5.0		10.0	
MW-56s-01-09-09-11:35	109	1.0		5.0		10.0	
MW-92-01-08-09-14:00	21	1.0		5.0		10.0	
MW-118-01-13-09-10:15	346	1.0		5.0		10.0	
MW-121s-01-08-09-11:50	nd	1.0		5.0		10.0	
MW-121d-01-08-09-11:00	nd	1.0		5.0		10.0	
545 Allison-01-08-09-14:20	12	1.0		5.0		10.0	
3225 Dexter Rd-01-26-09-13:20	nd	1.0		5.0		10.0	
3249 Dexter Rd-01-28-09-11:10	nd	1.0		5.0		10.0	
453 Dupont-01-28-09-11:35	3	1.0		5.0		10.0	
465 Dupont-01-13-09-14:30	1173	1.0		5.0		10.0	
305 Pinewood-01-28-09-11:20	nd	1.0		5.0		10.0	
E							
MW-30d-01-20-09-13:25	1167	1.0		5.0		10.0	
MW-71-01-27-09-13:55	1268	1.0		5.0		10.0	
MW-72s-01-13-09-11:35	26	1.0		5.0		10.0	
MW-72d-01-13-09-12:40	3021	1.0		5.0		10.0	
MW-79s-01-06-09-13:25	432	1.0		5.0		10.0	
MW-79d-01-06-09-12:40	2	1.0		5.0		10.0	
MW-82s-01-26-09-13:00	59	1.0		5.0		10.0	
MW-83s-01-09-09-10:30	487	1.0		5.0		10.0	
MW-84s-01-09-09-14:20	542	1.0		5.0		10.0	
MW-84d-01-09-09-13:45	nd	1.0		5.0		10.0	

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E							
MW-85-01-05-09-14:20	1466	1.0		5.0		10.0	
MW-87s-01-06-09-11:05	12	1.0		5.0		10.0	
MW-87d-01-06-09-11:40	523	1.0		5.0		10.0	
MW-88-01-05-09-13:20	422	1.0		5.0		10.0	
MW-90-01-13-09-11:00	56	1.0		5.0		10.0	
MW-100-01-07-09-14:10	226	1.0		5.0		10.0	
MW-101-01-08-09-13:10	415	1.0		5.0		10.0	
MW-105d-01-23-09-12:15	654	1.0		5.0		10.0	
MW-106s-01-23-09-12:15	824	1.0		5.0		10.0	
MW-106d-01-23-09-10:55	1	1.0		5.0		10.0	
MW-108s-01-28-09-10:05	2508	1.0		5.0		10.0	
MW-108d-01-28-09-10:40	2816	1.0		5.0		10.0	
MW-115-01-05-09-12:25	960	1.0		5.0		10.0	
MW-116-01-05-09-11:30	453	1.0		5.0		10.0	
TW-15-01-07-09-12:00	140	1.0		5.0		10.0	
None							
HC/HR-01-02-09-09:10		1.0	nd	2.0		10.0	
HC/HR-01-05-09-08:20		1.0	nd	2.0		10.0	
HC/HR-01-06-09-08:15		1.0	nd	2.0		10.0	
HC/HR-01-07-09-08:20		1.0	nd	2.0		10.0	
HC/HR-01-08-09-08:15		1.0	nd	2.0		10.0	
HC/HR-01-09-09-08:20		1.0	nd	2.0		10.0	
HC/HR-01-12-09-08:45		1.0	nd	2.0		10.0	
HC/HR-01-13-09-08:15		1.0	nd	2.0		10.0	
HC/HR-01-14-09-08:50		1.0	nd	2.0		10.0	
HC/HR-01-15-09-08:30		1.0	nd	2.0		10.0	
HC/HR-01-16-09-08:30		1.0	nd	2.0		10.0	
HC/HR-01-19-09-08:30		1.0	nd	2.0		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							
HC/HR-01-20-09-08:30		1.0	nd	2.0		10.0	
HC/HR-01-21-09-08:15		1.0	nd	2.0		10.0	
HC/HR-01-22-09-08:20		1.0	nd	2.0		10.0	
HC/HR-01-23-09-08:30		1.0	nd	2.0		10.0	
HC/HR-01-26-09-08:30		1.0	nd	2.0		10.0	
HC/HR-01-27-09-08:10		1.0	nd	2.0		10.0	
HC/HR-01-28-09-08:15		1.0	nd	2.0		10.0	
HC/HR-01-29-09-08:45		1.0	nd	2.0		10.0	
HC/HR-01-30-09-09:15		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>
1/2/2009	0	10.00	10.59	105.9%	10.00	10.57	105.7%	12.80	10.00	24.11	23.82	113.1%	110.2%	23.97	0.86	1.21%
1/5/2009	0	10.00	10.71	107.1%	10.00	10.71	107.1%	10.98	10.00	21.67	22.09	106.9%	111.1%	21.88	1.36	1.92%
1/6/2009	0	10.00	10.04	100.4%	10.00	10.20	102.0%	10.37	10.00	20.29	19.85	99.2%	94.8%	20.07	1.55	2.19%
1/7/2009	0	10.00	9.56	95.6%	10.00	10.07	100.7%	14.45	10.00	24.03	23.97	95.8%	95.2%	24.00	0.18	0.25%
1/8/2009	0	10.00	10.71	107.1%	10.00	10.71	107.1%	10.98	10.00	21.67	22.09	106.9%	111.1%	21.88	1.36	1.92%
	0	10.00	9.90	99.0%	10.00	10.11	101.1%	11.25	10.00	21.39	21.02	101.4%	97.7%	21.21	1.23	1.74%
1/9/2009	0	10.00	9.80	98.0%	10.00	10.01	100.1%	9.46	10.00	19.09	19.60	96.3%	101.4%	19.35	1.86	2.64%
1/12/2009	0	10.00	10.08	100.8%	10.00	10.16	101.6%	8.99	10.00	18.29	18.44	93.0%	94.5%	18.37	0.58	0.82%
1/13/2009	0	10.00	10.12	101.2%	10.00	10.23	102.3%	15.82	10.00	25.27	25.34	94.5%	95.2%	25.31	0.20	0.28%
1/14/2009	0	10.00	10.07	100.7%	10.00	10.03	100.3%	8.08	10.00	18.02	17.63	99.4%	95.5%	17.83	1.55	2.19%
1/15/2009	0	10.00	10.00	100.0%	10.00	10.06	100.6%	7.98	10.00	17.53	16.96	95.5%	89.8%	17.25	2.34	3.31%
1/16/2009	0	10.00	10.08	100.8%	10.00	10.24	102.4%	7.52	10.00	17.59	18.21	100.7%	106.9%	17.90	2.45	3.46%
1/19/2009	0	10.00	10.25	102.5%	10.00	10.29	102.9%	12.41	10.00	21.67	22.45	92.6%	100.4%	22.06	2.50	3.54%
1/20/2009	0	10.00	10.34	103.4%	10.00	10.38	103.8%	10.17	10.00	20.60	20.36	104.3%	101.9%	20.48	0.83	1.17%
1/21/2009	0	10.00	10.10	101.0%	10.00	10.51	105.1%	15.10	10.00	24.09	25.29	89.9%	101.9%	24.69	3.44	4.86%
1/22/2009	0	10.00	10.29	102.9%	10.00	10.33	103.3%	20.12	10.00	30.48	30.32	103.6%	102.0%	30.40	0.37	0.53%
1/23/2009	0	10.00	10.18	101.8%	10.00	10.27	102.7%	12.11	10.00	21.67	21.32	95.6%	92.1%	21.50	1.15	1.63%
1/26/2009	0	10.00	10.12	101.2%	10.00	10.34	103.4%	10.20	10.00	20.74	20.35	105.4%	101.5%	20.55	1.34	1.90%
1/27/2009	0	10.00	10.23	102.3%	10.00	10.29	102.9%	13.34	10.00	23.62	24.19	102.8%	108.5%	23.91	1.69	2.38%
1/28/2009	0	10.00	10.07	100.7%	10.00	10.42	104.2%	15.61	10.00	26.46	26.38	108.5%	107.7%	26.42	0.21	0.30%
1/29/2009	0	10.00	10.61	106.1%	10.00	10.65	106.5%	14.46	10.00	24.94	25.16	104.8%	107.0%	25.05	0.62	0.88%

CVS Mean: **10.18** 2 Standard Dev.: **0.58** Upper Warning Limit: **10.76** Upper Control Limit: **11.05**
 CVS Standard Dev: **0.29** 3 Standard Dev.: **.87** Lower Warning Limit: **9.60** Lower Control Limit: **9.31**

Bromate Precision and Accuracy Control Charting

Analysis Date	Method Blank	ICCS Result	ICCS % Recovery	LFB Result	LFB % Recovery	CCCS Result	CCCS % Recovery	ECCS Result	ECCS % Recovery	Non-Spike Result	LFM & LFMD Results		LFM & LFMD % Recovery	LFM & LFMD Mean	LFM & LFMD RSD	LFM & LFMD RPD
		Actual		Actual		Actual		Actual			Actual					
1/2/2009	0	1.9	95.0%	1.7	85.0%			15.3	95.6%	6.2	10.1	9.8	97.5%	10.0	2.13	3.0%
		2.0		2.0				16.0			4.0	90.0%				
1/5/2009	0	1.8	90.0%	2.0	100.0%			16.0	100.0%	6.4	10.9	10.3	112.5%	10.6	4.00	5.7%
		2.0		2.0				16.0			4.0	97.5%				
1/6/2009	0	2.0	100.0%	2.0	100.0%			16.5	103.1%	5.9	9.7	10.2	95.0%	10.0	3.55	5.0%
		2.0		2.0				16.0			4.0	107.5%				
1/7/2009	0	1.9	95.0%	1.9	95.0%			15.3	95.6%	6.0	9.4	9.3	85.0%	9.4	0.76	1.1%
		2.0		2.0				16.0			4.0	82.5%				
1/8/2009	0	1.6	80.0%	1.5	75.0%			14.2	88.8%	4.3	8.1	7.6	95.0%	7.9	4.50	6.4%
		2.0		2.0				16.0			4.0	82.5%				
1/9/2009	0	1.9	95.0%	1.9	95.0%			17.1	106.9%	5.3	9.3	9.8	100.0%	9.6	3.70	5.2%
		2.0		2.0				16.0			4.0	112.5%				
1/12/2009	0	1.9	95.0%	2.1	105.0%			16.2	101.3%	4.9	8.7	8.5	95.0%	8.6	1.64	2.3%
		2.0		2.0				16.0			4.0	90.0%				
1/13/2009	0	1.8	90.0%	1.8	90.0%			16.6	103.8%	5.1	9.1	9.1	100.0%	9.1	0.00	0.0%
		2.0		2.0				16.0			4.0	100.0%				
1/14/2009	0	2.0	100.0%	2.0	100.0%			17.0	106.3%	5.0	9.3	9.0	107.5%	9.2	2.32	3.3%
		2.0		2.0				16.0			4.0	100.0%				
1/15/2009	0	2.0	100.0%	2.1	105.0%			17.6	110.0%	5.3	9.9	9.6	115.0%	9.8	2.18	3.1%
		2.0		2.0				16.0			4.0	107.5%				
1/16/2009	0	2.0	100.0%	2.1	105.0%			17.3	108.1%	5.6	10.1	10.0	112.5%	10.1	0.70	1.0%
		2.0		2.0				16.0			4.0	110.0%				
1/19/2009	0	2.1	105.0%	1.8	90.0%			18.0	112.5%	5.5	10.1	9.9	115.0%	10.0	1.41	2.0%
		2.0		2.0				16.0			4.0	110.0%				

Analysis Date	Method Blank	ICCS Result	ICCS % Recovery	LFB Result	LFB % Recovery	CCCS Result	CCCS % Recovery	ECCS Result	ECCS % Recovery	Non-Spike Result	LFM & LFMD Results		LFM & LFMD % Recovery	LFM & LFMD Mean	LFM & LFMD RSD	LFM & LFMD RPD
		Actual		Actual		Actual		Actual			Actual					
1/20/2009	0	2.0	100.0%	2.0	100.0%			18.2	113.8%	5.7	10.0	10.1	107.5%	10.1	0.70	1.0%
		2.0		2.0				16.0			4.0		110.0%			
1/21/2009	0	2.2	110.0%	2.2	110.0%			17.6	110.0%	6.1	10.2	10.0	102.5%	10.1	1.40	2.0%
		2.0		2.0				16.0			4.0		97.5%			
1/22/2009	0	1.9	95.0%	2.1	105.0%					5.5	9.2		92.5%		#Error	
		2.0		2.0							4.0					
1/23/2009	0	1.8	90.0%	2.1	105.0%			15.2	95.0%	5.0	9.1	8.8	102.5%	9.0	2.37	3.4%
		2.0		2.0				16.0			4.0		95.0%			
1/26/2009	0	2.0	100.0%	2.1	105.0%					5.6						
		2.0		2.0												
1/27/2009	0	1.9	95.0%	2.3	115.0%			18.2	113.8%	5.8	10.1	10.0	107.5%	10.1	0.70	1.0%
		2.0		2.0				16.0			4.0		105.0%			
1/28/2009	0	2.1	105.0%	2.1	105.0%			18.3	114.4%	5.9	10.0	9.7	102.5%	9.9	2.15	3.0%
		2.0		2.0				16.0			4.0		95.0%			
1/29/2009	0	1.8	90.0%	2.0	100.0%			17.3	108.1%	5.1	9.8	9.7	117.5%	9.8	0.73	1.0%
		2.0		2.0				16.0			4.0		115.0%			
1/30/2009	0	2.1	105.0%	2.1	105.0%			18.1	113.1%	6.0	10.3	10.0	107.5%	10.2	2.09	3.0%
		2.0		2.0				16.0			4.0		100.0%			

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



Environmental Division

15-Jan-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 Jan. 6, 2009

Work Order : 0901104

Dear Wendy,

ALS Laboratory Group received 1 sample on 1/8/2009 10:00 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

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

A Campbell Brothers Limited Company

Client: Pall Life Sciences
Project: Oxalic Acid Analysis Jan. 6, 2009
Work Order: 0901104

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>
0901104-01	Outfall 001	Water		1/6/2009 10:30	1/8/2009 10:00	<input type="checkbox"/>

ALS Laboratory Group

Date: 15-Jan-09

Client: Pall Life Sciences
Project: Oxalic Acid Analysis Jan. 6, 2009

Work Order: 0901104

Lab ID: 0901104-01A

Collection Date: 1/6/2009 10:30:00 AM

Client Sample ID: Outfall 001

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC ACIDS BY HPLC			HPLC			Analyst: JD
Oxalic acid	ND		150	µg/L	1	1/15/2009

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: 15-Jan-09

Client: Pall Life Sciences
 Work Order: 0901104
 Project: Oxalic Acid Analysis Jan. 6, 2009

QC BATCH REPORT

Batch ID: R65063		Instrument ID HPLC1			Method: HPLC					
MBLK	Sample ID: MB-R65063-R65063				Units: mg/L	Analysis Date: 1/15/2009				
Client ID:		Run ID: HPLC1_090115A			SeqNo: 1093733	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-R65063-R65063				Units: mg/L	Analysis Date: 1/15/2009				
Client ID:		Run ID: HPLC1_090115A			SeqNo: 1093734	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	466.9	0.15	500	0	93.4	80-120	0			
LCSD	Sample ID: LCSD-R65063-R65063				Units: mg/L	Analysis Date: 1/15/2009				
Client ID:		Run ID: HPLC1_090115A			SeqNo: 1093738	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	462.8	0.15	500	0	92.6	80-120	466.9	0.876	20	
MS	Sample ID: 0901104-01A MS				Units: mg/L	Analysis Date: 1/15/2009				
Client ID: Outfall 001		Run ID: HPLC1_090115A			SeqNo: 1093736	Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	743.5	0.30	1000	0	74.3	45-85	0			
MSD	Sample ID: 0901104-01A MSD				Units: mg/L	Analysis Date: 1/15/2009				
Client ID: Outfall 001		Run ID: HPLC1_090115A			SeqNo: 1093737	Prep Date:		DF: 2		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	754.7	0.30	1000	0	75.5	45-85	743.5	1.51	20	

The following samples were analyzed in this batch: 0901104-01A

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

0901104



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

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: / / 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 ₃	H ₂ SO ₄	Other	
1	Outfall 001	1/6/09	10:30	treated				1	oxalic acid	X						
2		/ /	:													
3		/ /	:													
4		/ /	:													
5		/ /	:													
6		/ /	:													
7		/ /	:													
8		/ /	:													
9		/ /	:													
10		/ /	:													
11		/ /	:													
12		/ /	:													
13		/ /	:													
14		/ /	:													
15		/ /	:													
Released by: <u>Robert Ursing</u>		Date: <u>1/6/09</u>	Time: <u>11:00</u>	Received by: <u>Justina Reade</u>				Date: <u>1/6/09</u>	Time: <u>11:00</u>							
Released by: <u>Justina Reade</u>		Date: <u>1/6/09</u>	Time: <u>19:00</u>	Received by: <u>[Signature]</u>				Date: <u>1/8/09</u>	Time: <u>10:00</u>							

PINK Copy - Sampler

JRP

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

11.6°C Sample temperature upon laboratory receipt 11.6°C

ALS Laboratory Group

Sample Receipt Checklist

Client Name PALL

Date/Time Received: 1/8/2009 10:00

Work Order Number 0901104

Received by: ARB

Checklist completed by [Signature] Date 1/8/9

Reviewed by [Signature] 1/8/09
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): 1.6 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? No Checked by [Signature]

Login Notes:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____
