



Pall Corporation

# Sample Analysis Report

600 Wagner Road  
Ann Arbor, MI 48103-9019 US  
Phone: 734.665.0651  
Web: www.pall.com

March, 2011

Analyst Initials: RL  
Date: 04/11/11

Sample Name - Date/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>							
<b>C3</b>							
DOLPH-03-07-11-08:14-1	77	1.0					
TW-1-03-07-11-08:20-1	121	1.0					
TW-10-03-07-11-11:10-1	751	1.0					
TW-14-03-07-11-11:20-1	129	1.0					
TW-20-03-07-11-11:03-1	1487	1.0					
<b>D2</b>							
AE-3-03-07-11-13:35-1	131	1.0					
HZ-S-03-07-11-11:27-1	958	1.0					
LB-1-03-07-11-13:30-1	573	1.0					
LB-3-03-07-11-13:32-1	526	1.0					
TW-21-03-07-11-10:55-1	230	1.0					
TW-5-03-07-11-10:40-1	872	1.0					
TW-9-03-07-11-11:23-1	981	1.0					
<b>E</b>							
TW-11-03-07-11-10:43-1	223	1.0					
TW-17-03-07-11-11:15-1	89	1.0					
TW-18-03-07-11-08:16-1	384	1.0					
<b>Marshy</b>							
PW-1-03-07-11-08:18-1	1112	1.0					

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
<b>Not Applicable</b>							
SW-COMB-03-07-11-08:12-1	574	1.0					
<b>SW</b>							
TW-22-03-07-11-10:30-1	760	1.0					
TW-8-03-07-11-12:00-1	503	1.0					
<b>Monitoring Wells</b>							
<b>D0</b>							
A2 Cleaning Supply-03-03-11-13:10-1	94	1.0					
<b>D2</b>							
MW-130i-03-21-11-14:00-1	nd	1.0					
MW-130s-03-21-11-14:25-1	nd	1.0					
MW-131s-03-22-11-11:20-1	nd	1.0					
<b>E</b>							
MW-100-03-08-11-14:15-1	692	1.0					
MW-115-03-03-11-11:45-1	693	1.0					
MW-124d-03-10-11-10:00-1	nd	1.0					
MW-130d-03-21-11-12:05-1	nd	1.0					
MW-131d-03-22-11-10:30-1	nd	1.0					
MW-79s-03-08-11-11:10-1	175	1.0					
MW-85-03-03-11-14:15-1	952	1.0					
MW-87d-03-03-11-10:55-1	1722	1.0					
MW-87s-03-03-11-10:25-1	622	1.0					
MW-88-03-08-11-12:00-1	433	1.0					
TW-15-03-11-11-14:40-1	199	1.0					
<b>Not Determined</b>							

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
MW-133d-03-23-11-14:30-1	nd	1.0					
MW-133i-03-22-11-14:30-1	nd	1.0					
MW-133s-03-22-11-13:25-1	nd	1.0					
MW-134d-03-30-11-09:35-1	3	1.0					
MW-134i-03-30-11-10:35-1	5	1.0					
MW-134s-03-30-11-11:20-1	7	1.0					

## Surface Water

### Not Applicable

HC/HR-03-01-11-08:10-1			nd	0.5			
HC/HR-03-02-11-08:40-1			nd	2.0			
HC/HR-03-03-11-08:25-1			nd	2.0			
HC/HR-03-04-11-08:35-1			nd	2.0			
HC/HR-03-07-11-08:20-1			nd	2.0			
HC/HR-03-08-11-08:25-1			nd	2.0			
HC/HR-03-09-11-08:15-1			nd	2.0			
HC/HR-03-10-11-08:10-1			nd	2.0			
HC/HR-03-11-11-08:35-1			nd	2.0			
HC/HR-03-14-11-08:35-1			nd	2.0			
HC/HR-03-15-11-08:20-1			nd	2.0			
HC/HR-03-16-11-08:15-1			nd	2.0			
HC/HR-03-17-11-07:15-1			nd	2.0			
HC/HR-03-18-11-08:10-1			nd	2.0			
HC/HR-03-21-11-08:20-1			nd	2.0			
HC/HR-03-22-11-08:20-1			nd	2.0			
HC/HR-03-23-11-08:40-1			nd	2.0			
HC/HR-03-24-11-08:10-1			nd	2.0			
HC/HR-03-25-11-08:35-1			nd	2.0			

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
HC/HR-03-28-11-07:35-1			nd	2.0			
HC/HR-03-29-11-08:25-1			nd	2.0			
HC/HR-03-30-11-08:00-1			nd	2.0			
HC/HR-03-31-11-08:10-1			nd	2.0			
<b>Treatment System</b>							
OUTFALL-03-01-11-1	4	1.0					
OUTFALL-03-01-11-			nd	5.0			
OUTFALL-03-02-11-1	4	1.0					
OUTFALL-03-02-11-			nd	5.0			
OUTFALL-03-03-11-1	5	1.0					
OUTFALL-03-03-11-			nd	5.0			
OUTFALL-03-03-11-02			nd	5.0			
OUTFALL-03-06-11-1	5	1.0					
OUTFALL-03-06-11-			nd	5.0			
OUTFALL-03-07-11-			nd	5.0			
OUTFALL-03-07-11-1	5	1.0					
OUTFALL-03-08-11-1	5	1.0					
OUTFALL-03-08-11-			5	5.0			
OUTFALL-03-09-11-1	4	1.0					
OUTFALL-03-09-11-			nd	5.0			
OUTFALL-03-10-11-1	5	1.0					
OUTFALL-03-10-11-			nd	5.0			
OUTFALL-03-13-11-1	6	1.0					
OUTFALL-03-13-11-			6	5.0			
OUTFALL-03-14-11-1	5	1.0					
OUTFALL-03-14-11-01			5	5.0			
OUTFALL-03-15-11-2	5	1.0					

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
OUTFALL-03-15-11-01			5	5.0			
OUTFALL-03-16-11-1	4	1.0					
OUTFALL-03-16-11-01			5	5.0			
OUTFALL-03-17-11-1	5	1.0					
OUTFALL-03-17-11-01			5	5.0			
OUTFALL-03-20-11-1	6	1.0					
OUTFALL-03-20-11-01			5	5.0			
OUTFALL-03-21-11-01			5	5.0			
OUTFALL-03-21-11-1	4	1.0					
OUTFALL-03-22-11-1	4	1.0					
OUTFALL-03-22-11-01			nd	5.0			
OUTFALL-03-23-11-1	4	1.0					
OUTFALL-03-23-11-01			5	5.0			
OUTFALL-03-24-11-1	4	1.0					
OUTFALL-03-24-11-01			5	5.0			
OUTFALL-03-27-11-1	5	1.0					
OUTFALL-03-27-11-01			nd	5.0			
OUTFALL-03-28-11-1	4	1.0					
OUTFALL-03-28-11-01			nd	5.0			
OUTFALL-03-29-11-1	3	1.0					
OUTFALL-03-29-11-01			nd	5.0			
OUTFALL-03-30-11-1	3	1.0					
OUTFALL-03-30-11-01			nd	5.0			
OUTFALL-03-31-11-1	3	1.0					
OUTFALL-03-31-11-01			5	5.0			
Red Pond-03-07-11-08:10-1	500	1.0					
Red Pond-03-14-11-09:00-1	495	1.0					

Sample Name - Date/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-03-21-11-08:10-1	463	1.0					
Red Pond-03-28-11-08:10-1	489	1.0					

# 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>
3/1/2011	0	10.00	9.20	92.0%	10.00	8.30	83.0%	3.10	10.00	11.80	12.00	87.0%	89.0%	11.90	1.68%	
3/3/2011	0	10.00	8.60	86.0%	10.00	10.90	109.0%	4.00	10.00	15.50	14.70	115.0%	107.0%	15.10	5.30%	
3/4/2011	0	10.00	10.10	101.0%	10.00	10.10	101.0%	4.60	10.00	15.80	15.10	112.0%	105.0%	15.45	4.53%	
3/7/2011	0	10.00	11.20	112.0%	10.00	11.60	116.0%	5.50	10.00	16.50	17.50	110.0%	120.0%	17.00	5.88%	
3/8/2011	0	10.00	10.00	100.0%	10.00	11.30	113.0%	5.00	10.00	16.40	16.40	114.0%	114.0%	16.40	0.00%	
3/9/2011	0	10.00	10.60	106.0%	10.00	11.40	114.0%	4.80	10.00	16.10	16.30	113.0%	115.0%	16.20	1.23%	
3/10/2011	0	10.00	8.80	88.0%	10.00	9.40	94.0%	4.50	10.00	13.20	13.60	87.0%	91.0%	13.40	2.99%	
3/11/2011	0	10.00	11.20	112.0%	10.00	11.60	116.0%	4.90	10.00	14.80	14.00	99.0%	91.0%	14.40	5.56%	
3/14/2011	0	10.00	11.00	110.0%	10.00	10.50	105.0%	6.10	10.00	18.00	17.80	119.0%	117.0%	17.90	1.12%	
3/15/2011	0	10.00	10.60	106.0%	10.00	9.20	92.0%	5.10	10.00	15.10	15.80	100.0%	107.0%	15.45	4.53%	
3/17/2011	0	10.00	10.20	102.0%	10.00	11.00	110.0%	4.00	10.00	13.70	14.20	97.0%	102.0%	13.95	3.58%	
3/18/2011	0	10.00	11.10	111.0%	10.00	9.60	96.0%	4.60	10.00	14.60	15.60	100.0%	110.0%	15.10	6.62%	
3/24/2011	0	10.00	11.90	119.0%	10.00	11.80	118.0%	4.30	10.00	16.00	16.10	117.0%	118.0%	16.05	0.62%	
3/25/2011	0	10.00	10.40	104.0%	10.00	11.30	113.0%	3.80	10.00	15.50	16.90	117.0%	131.0%	16.20	8.64%	
3/29/2011	0	10.00	11.80	118.0%	10.00	11.30	113.0%	3.80	10.00	15.20	15.70	114.0%	119.0%	15.45	3.24%	
3/30/2011	0	10.00	8.20	82.0%	10.00	9.70	97.0%	2.90	10.00	12.10	12.00	92.0%	91.0%	12.05	0.83%	

CVS Mean: **10.31**      2 Standard Dev.: **2.23**      Upper Warning Limit: **12.54**      Upper Control Limit: **13.65**  
 CVS Standard Dev: **1.12**      3 Standard Dev.: **3.35**      Lower Warning Limit: **8.08**      Lower Control Limit: **6.96**