



Pall Corporation

Sample Analysis Report

600 Wagner Road
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August, 2011

Analyst Initials: SFP
Date: 09-15-11

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
Residential Wells							
C3							
333 Jackson Plaza-08-09-11-11:00-1	19	1.0					
D0							
4401 Park West-08-17-11-11:25-1	7	1.0					
4601 Park 4 inch-08-17-11-09:20-1	2	1.0					
4601 Park 6 inch-08-17-11-10:05-1	3	1.0					
4742 Park Rd-08-08-11-12:15-1	12	1.0					
5115 Jackson Rd-08-24-11-10:50-1	nd	1.0					
Miscellaneous Wells							
ARTESIAN #3-08-24-11-11:10-1	17	1.0					
Residential Wells							
D2							
354 Pinewood-08-24-11-11:30-1	nd	1.0					
E							
371 Parkland Plaza #1-08-23-11-11:00-1	nd	1.0					
371 Parkland Plaza #2-08-23-11-11:02-1	nd	1.0					
Miscellaneous Wells							
Marshy							

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AMW-1-08-29-11-13:30-1	362	1.0					
AMW-2-08-29-11-10:40-1	4	1.0					
PMW-1-08-29-11-11:40-1	146	1.0					
PMW-2-08-29-11-11:25-1	5082	1.0					
PMW-3-08-29-11-11:00-1	5908	1.0					
PMW-4-08-29-11-11:15-1	681	1.0					
Residential Wells							
Not Determined							
400 Maynard Street-08-02-11-09:35-1	nd	1.0					
400 Maynard Street-08-09-11-09:35-1	nd	1.0					
697 South Wagner Rd-08-17-11-14:25-1	nd	1.0					
723 S. Wagner Road-08-08-11-10:30-1	nd	1.0					
745 S. Wagner Road-08-08-11-10:15-1	nd	1.0					
777 S. Wagner Road-08-08-11-10:25-1	nd	1.0					
Miscellaneous Wells							
Bethlehem Cemetery-08-22-11-10:50-1	nd	1.0					
SH							
HCMW-2d-08-09-11-11:35-1	27	1.0					
Extraction Wells							
C3							
DOLPH-08-01-11-08:04-1	74	1.0					
TW-10-08-01-11-15:14-1	563	1.0					
TW-20-08-01-11-15:10-1	1116	1.0					
D2							
LB-1-08-01-11-11:40-1	638	1.0					

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LB-3-08-01-11-08:42-1	535	1.0					
TW-21-08-01-11-14:49-1	144	1.0					
TW-5-08-01-11-14:56-1	746	1.0					
TW-9-08-01-11-15:17-1	752	1.0					
E							
TW-11-08-01-11-14:58-1	210	1.0					
TW-18-08-01-11-08:06-1	302	1.0					
Marshy							
PW-1-08-01-11-08:08-1	994	1.0					
Not Applicable							
SW-COMB-08-01-11-08:02-1	474	1.0					
SW							
TW-22-08-01-11-15:02-1	491	1.0					
Monitoring Wells							
C3							
MW-15d-08-17-11-13:40-1	nd	1.0					
MW-15s-08-17-11-13:55-1	nd	1.0					
MW-20-08-08-11-14:25-1	nd	1.0					
MW-23-08-29-11-10:30-1	177	1.0					
MW-24-08-29-11-19:28-1	809	1.0					
MW-39s-08-08-11-10:55-1	22	1.0					
D0							
A2 Cleaning Supply-08-05-11-11:20-1	42	1.0					
MW-31-08-05-11-13:50-1	23	1.0					
MW-40d-08-19-11-12:00-2	nd	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
MW-40s-08-19-11-11:30-2	nd	1.0					
MW-51-08-05-11-13:15-1	ND	1.0					
MW-53d-08-05-11-09:45-1	2	1.0					
MW-53i-08-05-11-10:35-1	46	1.0					
MW-53s-08-05-11-09:10-1	ND	1.0					
MW-60-08-17-11-10:30-1	7	1.0					
MW-61d-08-08-11-13:40-1	nd	1.0					
MW-61s-08-08-11-13:55-1	19	1.0					
D2							
MW-107-08-04-11-14:15-1	76	1.0					
MW-117-08-05-11-14:30-1	ND	1.0					
MW-131s-08-09-11-13:35-1	nd	1.0					
MW-133i-08-18-11-10:10-1	1	1.0					
MW-133s-08-18-11-09:35-1	1	1.0					
MW-17-08-01-11-11:45-1	543	1.0					
MW-39d-08-08-11-11:20-1	199	1.0					
MW-47d-08-04-11-11:35-1	ND	1.0					
MW-47s-08-04-11-11:50-1	ND	1.0					
MW-92-08-02-11-13:10-1	16	1.0					
E							
MW-100-08-18-11-14:20-1	752	1.0					
MW-101-08-04-11-13:45-1	392	1.0					
MW-104-08-03-11-12:00-1	2	1.0					
MW-110-08-04-11-11:05-1	34	1.0					
MW-115-08-16-11-09:50-1	495	1.0					
MW-116-08-02-11-10:50-1	690	1.0					
MW-119-08-03-11-09:30-1	375	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
MW-131d-08-09-11-11:25-1	nd	1.0					
MW-133d-08-18-11-10:55-1	3	1.0					
MW-72d-08-01-11-11:15-1	3038	1.0					
MW-72s-08-01-11-10:30-1	14	1.0					
MW-79d-08-02-11-11:55-1	ND	1.0					
MW-79s-08-16-11-10:40-1	305	1.0					
MW-82d-08-02-11-14:20-1	1	1.0					
MW-82s-08-02-11-14:35-1	160	1.0					
MW-83d-08-01-11-14:35-1	nd	1.0					
MW-83s-08-01-11-13:45-1	499	1.0					
MW-84d-08-04-11-10:00-1	nd	1.0					
MW-84s-08-04-11-10:25-1	859	1.0					
MW-85-08-16-11-12:15-1	1939	1.0					
MW-86-08-03-11-11:25-1	nd	1.0					
MW-87d-08-16-11-13:58-1	715	1.0					
MW-87s-08-16-11-13:20-1	1153	1.0					
MW-88-08-16-11-11:25-1	235	1.0					
MW-89-08-03-11-10:05-1	2	1.0					
MW-90-08-03-11-10:35-1	40	1.0					
MW-98d-08-03-11-14:50-1	13	1.0					
MW-99d-08-03-11-13:55-1	ND	1.0					
MW-99s-08-03-11-13:15-1	ND	1.0					
TW-15-08-18-11-11:50-1	178	1.0					
Marshy							
MOW-1-08-29-11-10:50-1	243	1.0					
NMW-1d-08-29-11-12:32-1	596	1.0					
NMW-1s-08-29-11-12:20-1	1501	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
NMW-2d-08-29-11-12:10-1	712	1.0					
NMW-2s-08-29-11-11:55-1	1238	1.0					
NMW-3d-08-29-11-12:55-1	848	1.0					
NMW-3s-08-29-11-12:45-1	431	1.0					
SH							
MW-5d-08-25-11-13:40-1	4484	1.0					
Surface Water							
Not Applicable							
HC/HR-08-01-11-03:35-1			nd	2.0			
HC/HR-08-02-11-07:45-1			nd	2.0			
HC/HR-08-03-11-07:35-1			nd	2.0			
HC/HR-08-04-11-07:45-1			nd	2.0			
HC/HR-08-05-11-08:20-1			nd	2.0			
HC/HR-08-08-11-08:50-1			nd	2.0			
HC/HR-08-09-11-08:30-1			nd	2.0			
HC/HR-08-10-11-08:10-1			nd	2.0			
HC/HR-08-11-11-08:15-9			nd	2.0			
HC/HR-08-12-11-08:10-9			nd	2.0			
HC/HR-08-15-11-08:10-9			nd	2.0			
HC/HR-08-16-11-08:20-9			nd	2.0			
HC/HR-08-17-11-07:55-9			nd	2.0			
HC/HR-08-18-11-08:50-9			nd	2.0			
HC/HR-08-19-11-08:10-1			nd	2.0			
HC/HR-08-22-11-08:45-1			nd	2.0			
HC/HR-08-23-11-08:50-9			nd	2.0			
HC/HR-08-24-11-08:20-9			nd	2.0			

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HC/HR-08-25-11-08:40-9			nd	2.0			
HC/HR-08-26-11-08:40-9			nd	2.0			
HC/HR-08-29-11-07:40-9			nd	2.0			
HC/HR-08-29-11-07:40-1			nd	2.0			
HC/HR-08-30-11-08:15-1			nd	2.0			
HC/HR-08-31-11-08:15-1			nd	2.0			
Treatment System							
OUTFALL-08-01-11-1	5	1.0					
OUTFALL-08-01-11--			5	5.0			
OUTFALL-08-02-11-08:00-1	4	1.0					
OUTFALL-08-02-11--			5	5.0			
OUTFALL-08-03-11-10:05-3	4	1.0					
OUTFALL-08-03-11-10:05-1			5	5.0			
OUTFALL-08-04-11-09:50-1	5	1.0					
OUTFALL-08-04-11-1			6	5.0			
OUTFALL-08-07-11-09:40-1	4	1.0					
OUTFALL-08-07-11-1			6	5.0			
OUTFALL-08-08-11-09:35-1	4	1.0					
OUTFALL-08-08-11-1			6	5.0			
OUTFALL-08-09-11-1	3	1.0					
OUTFALL-08-09-11-08:00-1			5	5.0			
OUTFALL-08-15-11-09:15-3	4	1.0					
OUTFALL-08-15-11-12:20-1	5	1.0					
OUTFALL-08-15-11-12:10-1			nd	5.0			
OUTFALL-08-15-11-09:15-9			6	5.0			
OUTFALL-08-16-11-08:30-3	4	1.0					
OUTFALL-08-16-11-08:30-9			nd	5.0			

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-08-17-11-08:00-1	5	1.0					
OUTFALL-08-17-11-09:10-9			5	5.0			
OUTFALL-08-18-11-09:00-1	5	1.0					
OUTFALL-08-18-11-09:00-9			8	5.0			
OUTFALL-08-22-11-1	4	1.0					
OUTFALL-08-22-11-09:10-1			nd	5.0			
OUTFALL-08-23-11-09:30-1	4	1.0					
OUTFALL-08-23-11-09:30-9			nd	5.0			
OUTFALL-08-24-11-1	5	1.0					
OUTFALL-08-24-11-09:25-1			nd	5.0			
OUTFALL-08-25-11-1	4	1.0					
OUTFALL-08-25-11-08:25-1			nd	5.0			
OUTFALL-08-28-11-3	3	1.0					
OUTFALL-08-28-11-08:50-1			6	5.0			
OUTFALL-08-29-11-1	3	1.0					
OUTFALL-08-29-11-6			nd	5.0			
OUTFALL-08-30-11-1	3	1.0					
OUTFALL-08-30-11-6			nd	5.0			
OUTFALL-08-31-11-1	4	1.0					
OUTFALL-08-31-11-6			nd	5.0			
Red Pond-08-01-11-08:00-1	430	1.0					
Red Pond-08-08-11-08:45-1	481	1.0					
Red Pond-08-10-11-08:00-5	414	1.0					
Red Pond-08-10-11-1			nd	5.0			
Red Pond-08-15-11-11:55-1	365	1.0					
Red Pond-08-22-11-11:40-1	537	1.0					
Red Pond-08-29-11-08:05-1	401	1.0					

1,4- Dioxane Precision and Accuracy Control Charting**

Analysis Date	Method Blank	CVS True Value	CVS Value	CVS % Recovery	LFB True Value	LFB Value	LFB % Recovery	Sample Results	MS/MSD spiked Value	MS Results	MSD Results	MS %	MSD %	MS/MSD Mean	MS/MSD RSD	MS/MSD RPD
8/3/2011	nd	10	9.07	90.7	10	8.82	88.2	5.22	10	14.84	14.28	98	94	96	2.602	0.585
8/12/2011	0.19	10	9.12	91.2	10	9.52	95.2	3.71	20	21.63	no data*	91	na	91	na	na
8/17/2011	0.48	10	9.62	96.2	10	10.1	101	4.37	20	23.59	24.06	97	99	98	1.364	-0.481
8/17/2011	nd	10	9.68	96.8	10	10.41	104.1	4.52	10	13.96	14.45	96	100	98	2.386	-0.501
8/18/2011	nd	10	10.86	108.6	10	11.57	115.7	4.61	10	13.45	14.68	92	100	96	5.953	-1.278
8/18/2011	nd	10	9.76	97.6	10	10.47	104.7	4.39	10	12.96	16.66	90	116	103	18.181	-3.595
8/23/2011	nd	10	11.92	119	10	11.96	119.6	4.91	10	16.8	16.8	113	113	113	0	0
8/25/2011	nd	10	9.23	92.3	10	9.35	93.5	4.47	10	13.75	14.78	95	102	99	5.033	-1.045
8/26/2011	nd	10	9.47	94.7	10	9.15	91.5	4.00	10	12.67	14.25	91	102	96	7.980	-1.643
8/26/2011	nd	10	11.95	119.5	10	9.67	96.7	4.33	10	13.55	14.12	95	99	97	2.813	-0.590
8/29/2011	nd	10	9.18	91.8	10	9.36	93.6	2.96	10	12.72	12.05	98	93	96	3.656	0.701
8/30/2011	nd	10	10.71	107.1	10	9.56	95.6	2.76	10	12.1	11.44	95	90	92	3.657	0.716

Mean	10.05	9.995
Std Dev	1.1	1.0
2xStd Dev	2.106	1.924
3xStd Dev	3.159	2.887

* MS was double spiked and MSD not spiked
 ** Data are combined data from two instruments

CVS			
Upper Warning Limit	12.15	Lower Warning Limit	7.94
Upper Control Limit	13.21	Lower Control Limit	6.89

LFB			
Upper Warning Limit	11.92	Lower Warning Limit	8.07
Upper Control Limit	12.88	Lower Control Limit	7.11

SEP 09/15/11