



Pall Corporation

Sample Analysis Report

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January, 2014

Analyst Initials: SEOP
Date: 02-12-14

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	Qualifier(s)
Residential Wells								
D0								
5005 Jackson Rd-01-14-14-12:20-1	13	1.0					Analyzed at Brighton Analytical	O
Not Determined								
697 South Wagner Rd-01-15-14-09:00-1	nd	1.0					Analyzed at Brighton Analytical	O
Extraction Wells								
C3								
DOLPH-01-07-14-10:30-1	80	5.0						D
TW-20-01-07-14-10:54-1	920	25.0						D
D2								
LB-4-01-07-14-09:16-1	570	10.0						D
TW-21-01-07-14-10:10-1	140	5.0						D
TW-5-01-07-14-10:20-1	760	50.0						D
TW-9-01-07-14-11:11-1	820	25.0						D
E								
TW-11-01-07-14-10:22-1	210	10.0						D
TW-18-01-07-14-10:46-1	260	10.0						D
TW-19-01-07-14-09:15-1	710	25.0						D

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	Qualifier(s)
Marshy								
PW-1-01-07-14-10:45-1	910	50.0						D
PW-1-01-22-14-09:15-1	880	25.0						D
SW								
TW-22-01-07-14-11:28-1	580	25.0						D
TW-8-01-07-14-11:27-1	790	25.0						D
Monitoring Wells								
D0								
A2 Cleaning Supply-01-13-14-11:50-1	71	1.0						
D2								
MW-129i-01-16-14-11:30-1	nd	1.0						
MW-129s-01-16-14-11:50-1	nd	1.0						
MW-133i-01-15-14-10:05-1	2	1.0						
MW-133s-01-15-14-10:25-1	2	1.0						
MW-134i-01-14-14-14:35-1	9	1.0						
MW-134s-01-14-14-13:55-1	9	1.0						
E								
MW-101-01-17-14-13:20-1	190	5.0						D
MW-103d-01-15-14-12:25-1	11	1.0						
MW-103s-01-15-14-12:35-1	80	1.0						
MW-112d-01-13-14-13:35-1	nd	1.0						
MW-112i-01-13-14-13:35-1	7	1.0						
MW-112s-01-13-14-13:50-1	nd	1.0						
MW-129d-01-16-14-11:00-1	nd	1.0						
MW-133d-01-15-14-11:10-1	4	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	Qualifier(s)
MW-134d-01-14-14-13:35-1	5	1.0						
MW-76i-01-15-14-13:18-1	91	1.0						
MW-76s-01-15-14-13:35-1	290	5.0						D
MW-84s-01-15-14-14:15-1	390	10.0						D
MW-85-01-17-14-12:30-1	1100	25.0						D
MW-87d-01-17-14-11:15-1	540	10.0						D
MW-87s-01-17-14-11:25-1	790	25.0						D
MW-88-01-17-14-10:40-1	150	10.0						D

Surface Water

Not Applicable

HC/HR-01-02-14-08:30-1			nd	2.0				
HC/HR-01-03-14-08:30-1			nd	2.0				
HC/HR-01-06-14-08:10-1			nd	2.0				
HC/HR-01-07-14-08:30-1			nd	2.0				
HC/HR-01-08-14-08:30-1			nd	2.0				
HC/HR-01-09-14-08:10-1			nd	2.0				
HC/HR-01-10-14-08:35-1			nd	2.0				
HC/HR-01-13-14-08:10-1			nd	2.0				
HC/HR-01-14-14-08:50-1			nd	2.0				
HC/HR-01-15-14-08:30-1			nd	2.0				
HC/HR-01-16-14-08:20-1			nd	2.0				
HC/HR-01-17-14-08:30-1			nd	2.0				
HC/HR-01-21-14-08:20-1			nd	2.0				
HC/HR-01-22-14-08:25-1			nd	2.0				
HC/HR-01-23-14-08:10-1			nd	2.0				
HC/HR-01-24-14-08:10-1			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	Qualifier(s)
HC/HR-01-27-14-07:50-1			nd	2.0				
HC/HR-01-28-14-08:15-1			nd	2.0				
HC/HR-01-29-14-08:10-1			nd	2.0				
HC/HR-01-30-14-08:35-1			nd	2.0				
HC/HR-01-31-14-08:00-1			nd	2.0				

Treatment System

OUTFALL-01-01-14-1	5	1.0						
OUTFALL-01-01-14-2			6	5.0				
OUTFALL-01-02-14-2			6	5.0				
OUTFALL-01-02-14-1	5	1.0						
OUTFALL-01-05-14-1	5	1.0						
OUTFALL-01-05-14-2			5	5.0				
OUTFALL-01-06-14-2			7	5.0				
OUTFALL-01-06-14-1	5	1.0						
OUTFALL-01-07-14-1	5	1.0						
OUTFALL-01-07-14-2			8	5.0				
OUTFALL-01-08-14-1	5	1.0						
OUTFALL-01-08-14-2			8	5.0				
OUTFALL-01-09-14-1	6	1.0						
OUTFALL-01-09-14-2			8	5.0				
OUTFALL-01-12-14-1	5	1.0						
OUTFALL-01-12-14-2			7	5.0				
OUTFALL-01-13-14-1	6	1.0						
OUTFALL-01-13-14-2			7	5.0				
OUTFALL-01-14-14-2			5	5.0				
OUTFALL-01-14-14-1	6	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	Qualifier(s)
OUTFALL-01-15-14-2			5	5.0				
OUTFALL-01-15-14-1	5	1.0						
OUTFALL-01-16-14-2			6	5.0				
OUTFALL-01-16-14-1	6	1.0						
OUTFALL-01-19-14-1	6	1.0						
OUTFALL-01-19-14-2			7	5.0				
OUTFALL-01-20-14-1	6	1.0						
OUTFALL-01-20-14-2			6	5.0				
OUTFALL-01-21-14-1	6	1.0						
OUTFALL-01-21-14-2			6	5.0				
OUTFALL-01-22-14-1	5	1.0						
OUTFALL-01-22-14-2			7	5.0				
OUTFALL-01-23-14-1	6	1.0						
OUTFALL-01-23-14-2			7	5.0				
OUTFALL-01-26-14-2			7	5.0				
OUTFALL-01-26-14-1	5	1.0						
OUTFALL-01-27-14-2			7	5.0				
OUTFALL-01-27-14-1	5	1.0						
OUTFALL-01-28-14-1	5	1.0						
OUTFALL-01-28-14-2			7	5.0				
OUTFALL-01-29-14-1	6	1.0						
OUTFALL-01-29-14-2			6	5.0				
OUTFALL-01-30-14-2			7	5.0				
OUTFALL-01-30-14-1	5	1.0						
Red Pond-01-06-14-08:05-1	450	10.0						D
Red Pond-01-13-14-08:05-1	490	10.0						D
Red Pond-01-21-14-08:15-1	440	10.0						D

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	Qualifier(s)
Red Pond-01-27-14-07:55-1	470	10.0						D

Qualifier Code:

O
D

Qualifier Description

Samples analyzed in outside laboratory

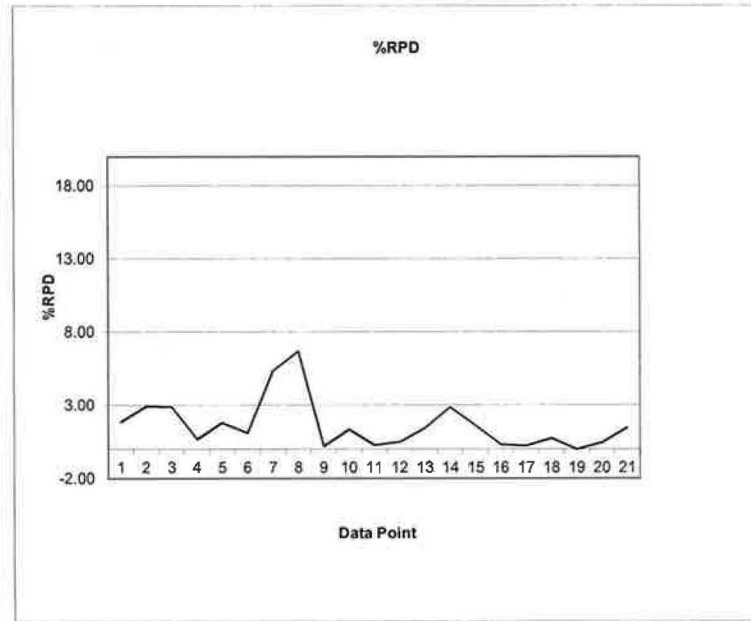
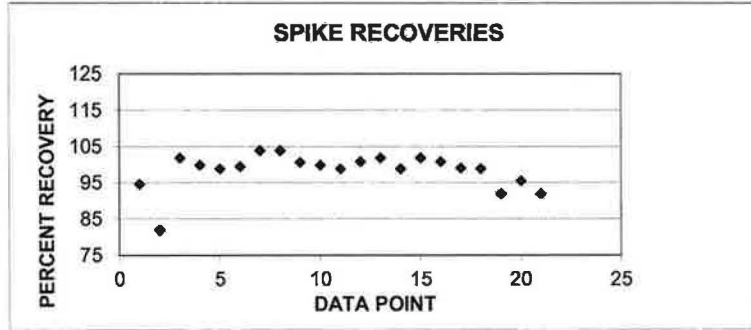
Analyte value quantified from a dilution, reporting limit is raised to reflect dilution

Control Chart for 01/2014 MS/MSD & Repeat %Recoveries

Analyst: SEOP

IC: Metrohm
 Report Date: 2/14/2014
 Chemist: Susan E.O. Peters
 Dept: Environmental
 Analyte: Bromate
 Start date: 1/1/2014
 End date: 1/31/2014
 Desired level: 100%

Analysis Date	MS Recoveries and Replicate Recoveries							n=
	Spike 1 ----- % Rec	Spike 2 ----- % Rec	Ave. Spike Recovery (75-125%)	%RPD Spike Recovery (0-20%)	Std. Dev. Spikes	Ave. Sample Replicates	Std. Dev. Sample Replicates	
1/2/2014	94	96	95	1.87	1.41			
1/2/2013	81	84	82	2.95	1.99	1.11	0.03	2
1/3/2013	100	104	102	2.90	2.83	1.24	0.26	2
1/6/2014	100	100	100	0.67	0.51	1.07	0.02	2
1/7/2014	98	100	99	1.80	1.46	1.45	0.06	2
1/8/2014	100	99	100	1.10	0.85	1.59	0.05	2
1/9/2014	107	100	104	5.38	4.95	1.61	0.06	2
1/10/2014	108	100	104	6.69	5.66	1.54	0.13	2
1/13/2014	101	101	101	0.21	0.18	1.44	0.04	2
1/14/2014	99	101	100	1.34	1.08	1.39	0.16	2
1/15/2014	99	99	99	0.27	0.21	1.07	0.02	2
1/17/2014	101	102	101	0.51	0.71	1.18	0.01	2
1/21/2014	101	103	102	1.43	0.71	1.22	0.02	2
1/21/2014	101	97	99	2.88	2.54	1.38	0.05	2
1/22/2014	103	101	102	1.60	1.41	1.22	0.01	2
1/24/2014	101	100	101	0.33	0.28	1.30	0.02	2
1/27/2014	99	99	99	0.24	0.21	1.45	0.06	2
1/28/2014	99	99	99	0.73	0.57	1.36	0.07	2
1/29/2014	92	92	92	0.00	0.00	1.47	0.05	2
1/30/2014	96	95	96	0.45	0.35	1.24	0.03	2
1/31/2014	92	91	92	1.44	0.71	1.52	0.05	2



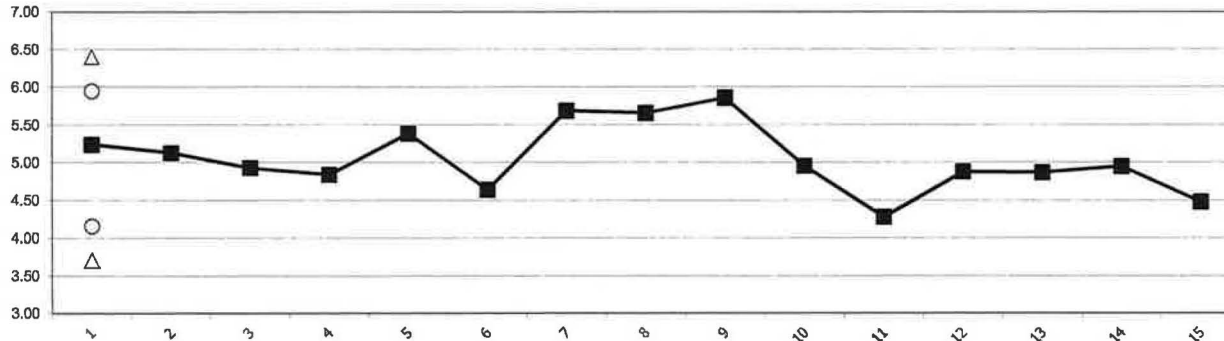
Control Chart for 01/2014 CVS

Analyst: SEOP

GC/MS Data: #2
Report Date: 2/14/2014
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 1/1/2014
End date: 1/31/2014
Desired level: 100%

Date	CVS Values				Mean (Daily Average)	Sample Mean (All Individual Data)	Daily Standard Deviation	Daily Average Sample Standard Deviation	Lower Control Limit	Upper Control Limit	Lower Warning Limit	Upper Warning Limit
	CVS 1	CVS 2	CVS 3	CVS 4								
1/3/2014	5.65	4.83			5.24	5.06	0.58	0.45	3.71	6.40	4.16	5.95
1/6/2014	5.13				5.13	5.06	na					
1/8/2014	5.06	4.80			4.93	5.06	0.19					
1/9/2014	4.84				4.84	5.06	na					
1/10/2014	5.39				5.39	5.06	na					
1/13/2014	4.64				4.64	5.06	na					
1/14/2014	5.69				5.69	5.06	na					
1/15/2014	5.66				5.66	5.06	na					
1/17/2014	5.86				5.86	5.06	na					
1/21/2014	4.96				4.96	5.06	na					
1/22/2014	4.28				4.28	5.06	na					
1/24/2014	4.88				4.88	5.06	na					
1/29/2014	4.87				4.87	5.06	na					
1/30/2014	4.95				4.95	5.06	na					
1/31/2014	4.48				4.48	5.06	na					

01/2014 CVS with Control Limits



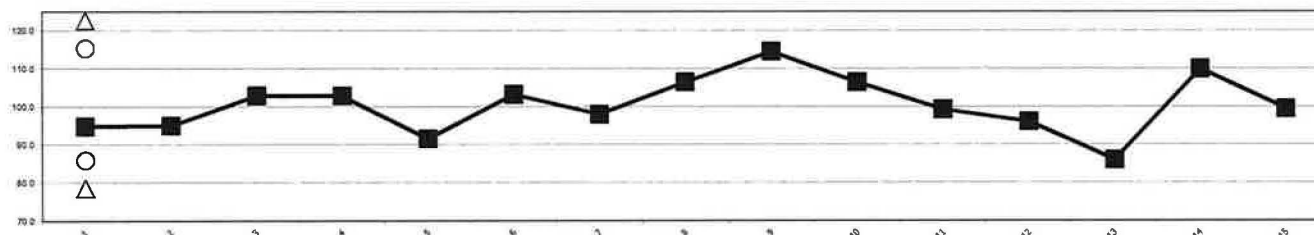
Control Chart for 01/2014 MS/MSD %Recoveries

Analyst: SEOP

GC/MS Data: #2
 Report Date: 2/14/2014
 Chemist: Susan E.O. Peters
 Dept: Environmental
 Analyte: 1,4-dioxane
 Start date: 1/1/2014
 End date: 1/31/2014
 Desired level: 100%

Date	Matrix Spike % Recovery Values							Mean (Daily Average)	Sample Mean (All Individual Data)	Daily Standard Deviation	Daily Average Sample Standard Deviation	Lower Control Limit	Upper Control Limit	Lower Warning Limit	Upper Warning Limit	Mean RPD (Individual Data)
	MS 1	MSD 1	MS 2	MSD 2	Replicate Ave.	Std. Dev.	# data pts									
1/3/2014	89	101			4.95	0.50	2	94.80	100.6	10.3	7.4	78.6	122.7	85.9	115.4	100.6
1/6/2014	99	91						95.00								
1/8/2014	106	100			4.66	0.13	2	102.90								
1/9/2014	111	95			5.05	0.29	2	102.85								
1/10/2014	90	93			6.31	0.57	2	91.55								
1/13/2014	92	115			5.37	0.17	2	103.25								
1/14/2014	89	107			6.46	0.67	2	98.00								
1/15/2014	103	110			6.20	0.28	2	106.50								
1/17/2014	113	116			6.38	0.78	2	114.50								
1/21/2014	112	101			5.81	0.71	2	106.50								
1/22/2014	95	104			5.68	0.10	2	99.30								
1/24/2014	82	101	117	85	5.48	0.73	2	96.08								
1/29/2014	86				5.92	1.42	2	86.00								
1/30/2014	117	103			5.19	1.11	2	110.00								
1/31/2014	107	92			5.28	0.17	2	99.50								

01/2014 MS/MSD with Control Limits

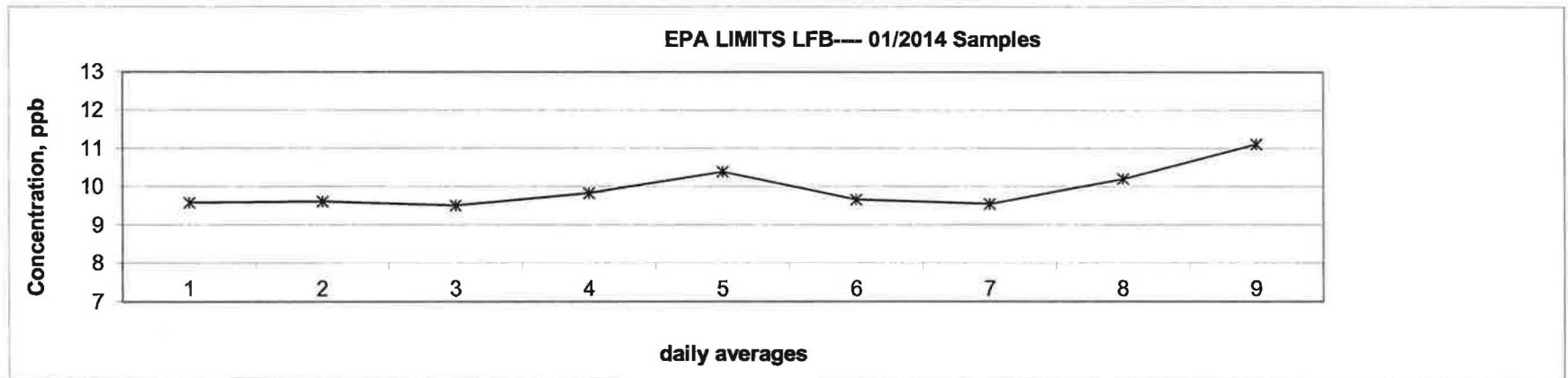


Control Chart for 01/2014 LFB

Analyst: SEOP

GC/MS Data: #2
Report Date: 2/14/2014
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 1/1/2014
End date: 1/31/2014
Desired level: 100%

Date	LFB Values						Mean (Daily Average)	Sample Mean (All Individual Data)	Daily Standard Deviation	Daily Average Sample Standard Deviation	Lower Control Limit	Upper Control Limit	Lower Warning Limit	Upper Warning Limit
	LFB 1	LFB 2	LFB 3	LFB 4	LFB 5	LFB 6								
1/3/2014	8.82	8.87	11.06				9.58	9.86	1.28	0.52	8.31	11.40	8.82	10.89
1/6/2014	9.62	9.67	9.55				9.61	9.86	0.06					
1/8/2014	8.95	9.32	9.03	8.97	11.36	9.43	9.51	9.86	0.93					
1/9/2014	10.02	9.58	9.89				9.83	9.86	0.23					
1/10/2014	11.12	10.13	9.93				10.39	9.86	0.64					
1/13/2014	10.67	9.13	9.20				9.67	9.86	0.87					
1/14/2014	9.88	9.23					9.56	9.86	na					
1/15/2014	9.43	10.86	10.32				10.20	9.86	0.72					
1/17/2014	11.95	9.9	11.6				11.12	9.86	1.12					
1/21/2014	10.88	10.37	10.61				10.62	9.86	0.26					
1/22/2014	8.57	11.43	9.56				9.85	9.86	1.45					
1/24/2014	9.15	9.54	8.56				9.08	9.86	0.49					
1/29/2014	10.47	8.80	9.32				9.53	9.86	0.85					
1/30/2014	9.51	9.55	10.70				9.92	9.86	0.68					
1/31/2014	10.34	9.47	9.02				9.61	9.86	0.67					

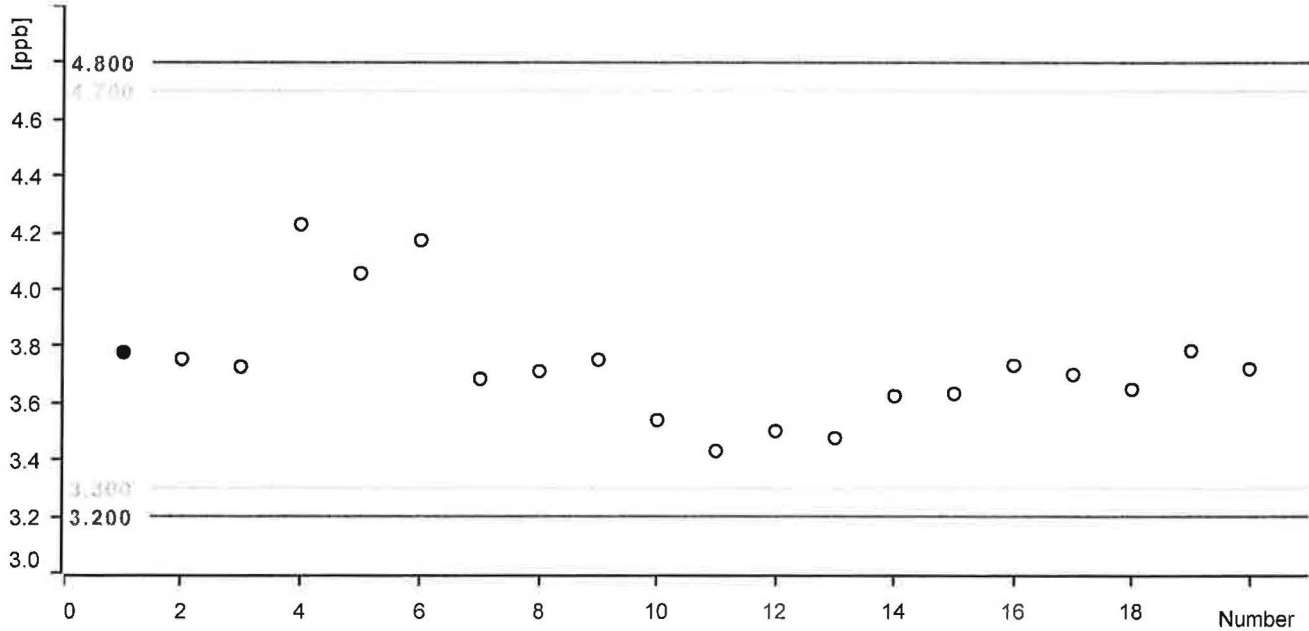


Control chart

3EOP

Comment

Bromate 4 PPB concentration



Statistics

Mean value:	3,733 ppb	Absolute standard deviation:	0,209 ppb
Minimum:	3,431 ppb	Relative standard deviation:	5,602 %
Maximum:	4,229 ppb	Number of determinations:	20

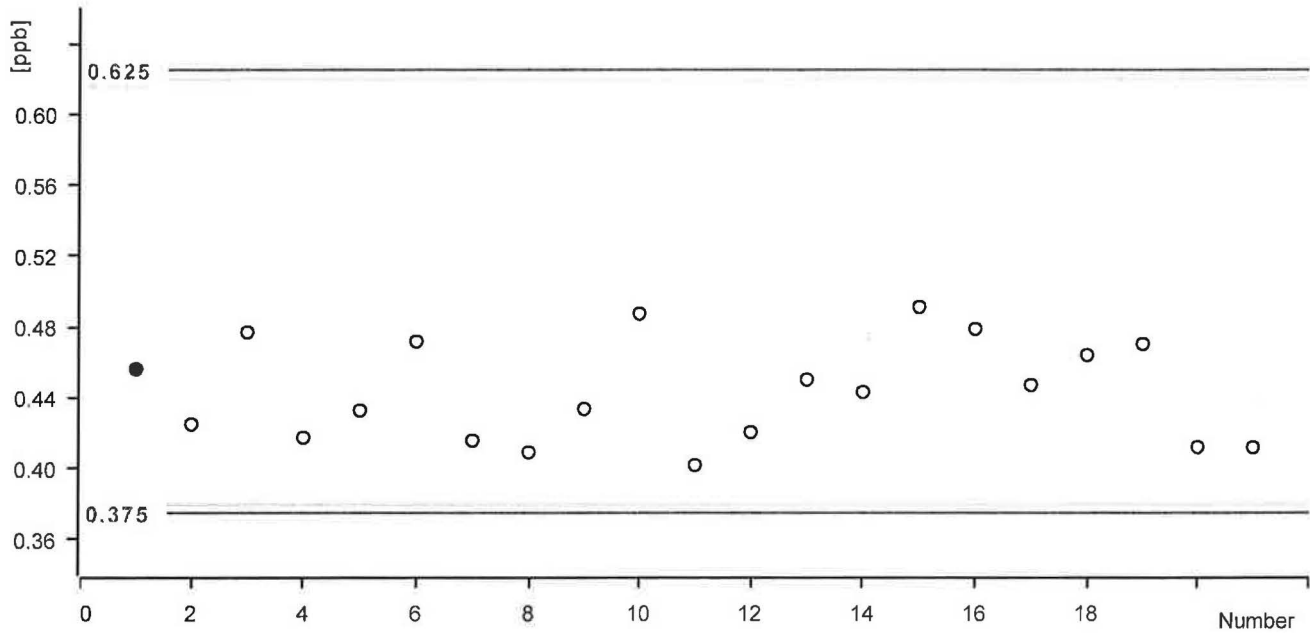
Date	Number	Ident	Sample type	Method	Bromate 4 PPB concentration	Statistics
2014-01-04 00:47:00 UTC-5	1	ECCS/CCCS	Sample	01032014 300.1	3,777 ppb	on
2014-01-06 16:38:28 UTC-5	2	ECCS/CCCS	Sample	01032014 300.1	3,754 ppb	on
2014-01-07 14:57:45 UTC-5	3	ECCS/CCCS	Sample	01032014 300.1	3,726 ppb	on
2014-01-08 15:46:24 UTC-5	4	ECCS/CCCS	Sample	01032014 300.1	4,229 ppb	on
2014-01-09 14:32:11 UTC-5	5	ECCS/CCCS	Sample	01032014 300.1	4,056 ppb	on
2014-01-10 15:18:26 UTC-5	6	ECCS/CCCS	Sample	01032014 300.1	4,173 ppb	on
2014-01-13 14:28:59 UTC-5	7	ECCS/CCCS	Sample	01032014 300.1	3,684 ppb	on
2014-01-14 14:28:12 UTC-5	8	ECCS/CCCS	Sample	01032014 300.1	3,711 ppb	on
2014-01-15 14:50:13 UTC-5	9	ECCS/CCCS	Sample	01032014 300.1	3,751 ppb	on
2014-01-16 18:51:21 UTC-5	10	ECCS/CCCS	Sample	01032014 300.1	3,540 ppb	on
2014-01-17 14:36:10 UTC-5	11	ECCS/CCCS	Sample	01032014 300.1	3,431 ppb	on
2014-01-21 17:33:18 UTC-5	12	ECCS/CCCS	Sample	01032014 300.1	3,501 ppb	on
2014-01-22 14:42:09 UTC-5	13	ECCS/CCCS	Sample	01032014 300.1	3,476 ppb	on
2014-01-24 15:15:04 UTC-5	14	ECCS/CCCS	Sample	01032014 300.1	3,525 ppb	on
2014-01-24 15:52:48 UTC-5	15	ECCS/CCCS	Sample	01032014 300.1	3,633 ppb	on
2014-01-27 16:27:37 UTC-5	16	ECCS/CCCS	Sample	01032014 300.1	3,732 ppb	on
2014-01-28 15:10:21 UTC-5	17	ECCS/CCCS	Sample	01032014 300.1	3,700 ppb	on
2014-01-29 13:47:11 UTC-5	18	ECCS/CCCS	Sample	01032014 300.1	3,645 ppb	on
2014-01-30 14:23:59 UTC-5	19	ECCS/CCCS	Sample	01032014 300.1	3,785 ppb	on
2014-01-31 13:59:11 UTC-5	20	ECCS/CCCS	Sample	01032014 300.1	3,720 ppb	on

Control chart

SEUP

Comment

0.5PPB STD



Statistics

Mean value:	0.444 ppb	Absolute standard deviation:	0.028 ppb
Minimum:	0.402 ppb	Relative standard deviation:	6.400 %
Maximum:	0.491 ppb	Number of determinations:	21

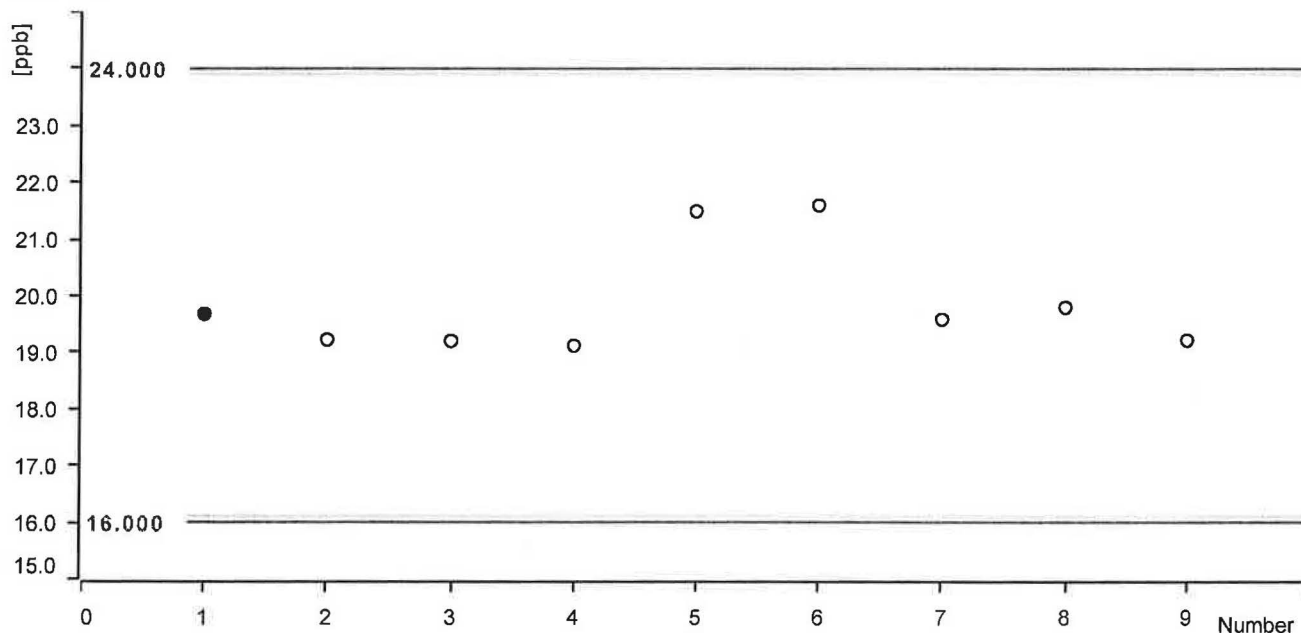
Date	Number	Ident	Sample type	Method	0.5PPB STD	Statistics
2014-01-03 17:52:01 UTC-5	1	ICCS/LFB	Sample	01032014 300.1	0.456 ppb	on
2014-01-06 10:12:19 UTC-5	2	ICCS/LFB	Sample	01032014 300.1	0.425 ppb	on
2014-01-07 08:40:25 UTC-5	3	ICCS/LFB	Sample	01032014 300.1	0.477 ppb	on
2014-01-08 08:39:50 UTC-5	4	ICCS/LFB	Sample	01032014 300.1	0.417 ppb	on
2014-01-10 08:18:09 UTC-5	5	ICCS/LFB	Sample	01032014 300.1	0.433 ppb	on
2014-01-13 08:11:29 UTC-5	6	ICCS/LFB	Sample	01032014 300.1	0.472 ppb	on
2014-01-14 08:08:19 UTC-5	7	ICCS/LFB	Sample	01032014 300.1	0.416 ppb	on
2014-01-15 08:01:50 UTC-5	8	ICCS/LFB	Sample	01032014 300.1	0.409 ppb	on
2014-01-15 09:10:38 UTC-5	9	ICCS/LFB	Sample	01032014 300.1	0.434 ppb	on
2014-01-16 12:58:11 UTC-5	10	ICCS/LFB	Sample	01032014 300.1	0.487 ppb	on
2014-01-17 08:18:55 UTC-5	11	ICCS/LFB	Sample	01032014 300.1	0.402 ppb	on
2014-01-17 08:56:39 UTC-5	12	ICCS/LFB	Sample	01032014 300.1	0.421 ppb	on
2014-01-21 08:38:18 UTC-5	13	ICCS/LFB	Sample	01032014 300.1	0.450 ppb	on
2014-01-22 08:58:54 UTC-5	14	ICCS/LFB	Sample	01032014 300.1	0.443 ppb	on
2014-01-24 08:49:59 UTC-5	15	ICCS/LFB	Sample	01032014 300.1	0.491 ppb	on
2014-01-27 09:59:45 UTC-5	16	ICCS/LFB	Sample	01032014 300.1	0.479 ppb	on
2014-01-28 08:32:34 UTC-5	17	ICCS/LFB	Sample	01032014 300.1	0.447 ppb	on
2014-01-28 09:10:18 UTC-5	18	ICCS/LFB	Sample	01032014 300.1	0.464 ppb	on
2014-01-29 08:37:05 UTC-5	19	ICCS/LFB	Sample	01032014 300.1	0.470 ppb	on
2014-01-30 08:33:31 UTC-5	20	ICCS/LFB	Sample	01032014 300.1	0.412 ppb	on
2014-01-31 08:16:21 UTC-5	21	ICCS/LFB	Sample	01032014 300.1	0.412 ppb	on

Control chart

SEOP

Comment

20PPB BROMATE



Statistics

Mean value:	19.878 ppb	Absolute standard deviation:	0.975 ppb
Minimum:	19.119 ppb	Relative standard deviation:	4.904 %
Maximum:	21.597 ppb	Number of determinations:	9

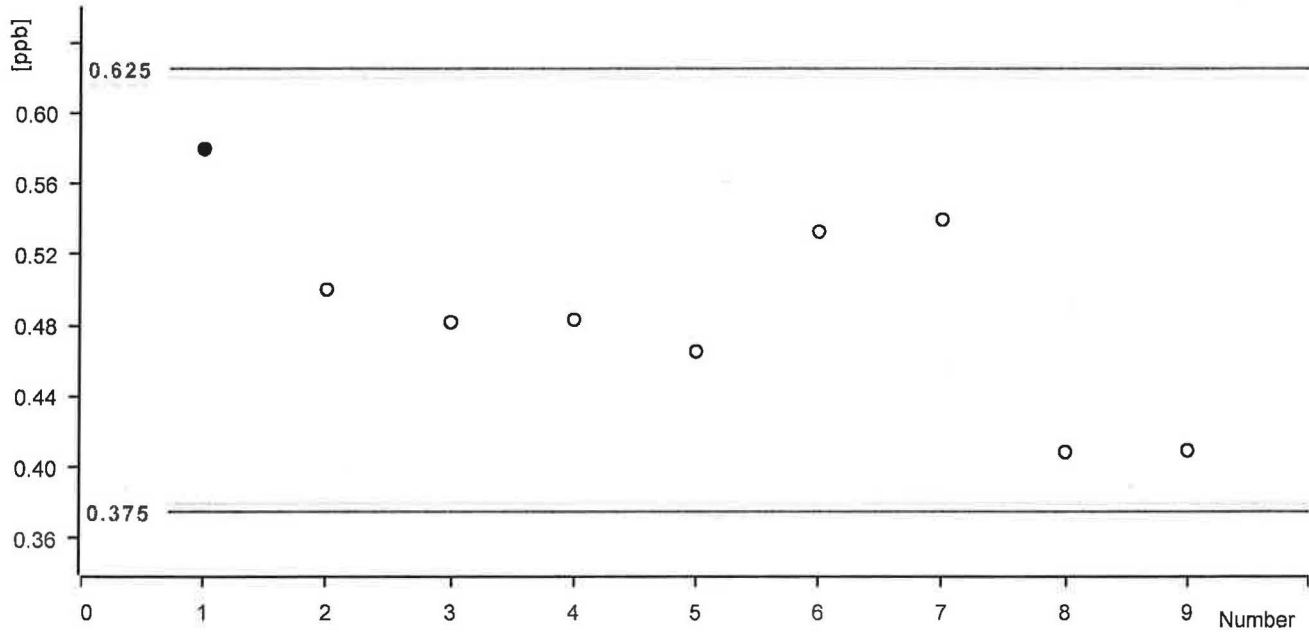
Date	Number	Ident	Sample type	Method	20PPB BROMATE	Statistics
1 2014-01-03 15:32:23 UTC-5	1	QCS HIGH	Sample	01032014 300.1	19.678 ppb	on
2 2014-01-06 21:02:49 UTC-5	2	QCS HIGH	Sample	01032014 300.1	19.222 ppb	on
3 2014-01-07 17:28:39 UTC-5	3	QCS HIGH	Sample	01032014 300.1	19.199 ppb	on
4 2014-01-07 19:59:37 UTC-5	4	QCS HIGH	Sample	01032014 300.1	19.119 ppb	on
5 2014-01-08 18:17:16 UTC-5	5	QCS HIGH	Sample	01032014 300.1	21.494 ppb	on
6 2014-01-08 20:48:10 UTC-5	6	QCS HIGH	Sample	01032014 300.1	21.597 ppb	on
7 2014-01-14 15:43:39 UTC-5	7	QCS HIGH	Sample	01032014 300.1	19.582 ppb	on
8 2014-01-15 16:05:40 UTC-5	8	QCS HIGH	Sample	01032014 300.1	19.798 ppb	on
9 2014-01-16 20:06:49 UTC-5	9	QCS HIGH	Sample	01032014 300.1	19.216 ppb	on

Control chart

SEOP

Comment

0.5PPB STD



Statistics

Mean value:	0.489 ppb	Absolute standard deviation:	0.057 ppb
Minimum:	0.409 ppb	Relative standard deviation:	11.726 %
Maximum:	0.580 ppb	Number of determinations:	9

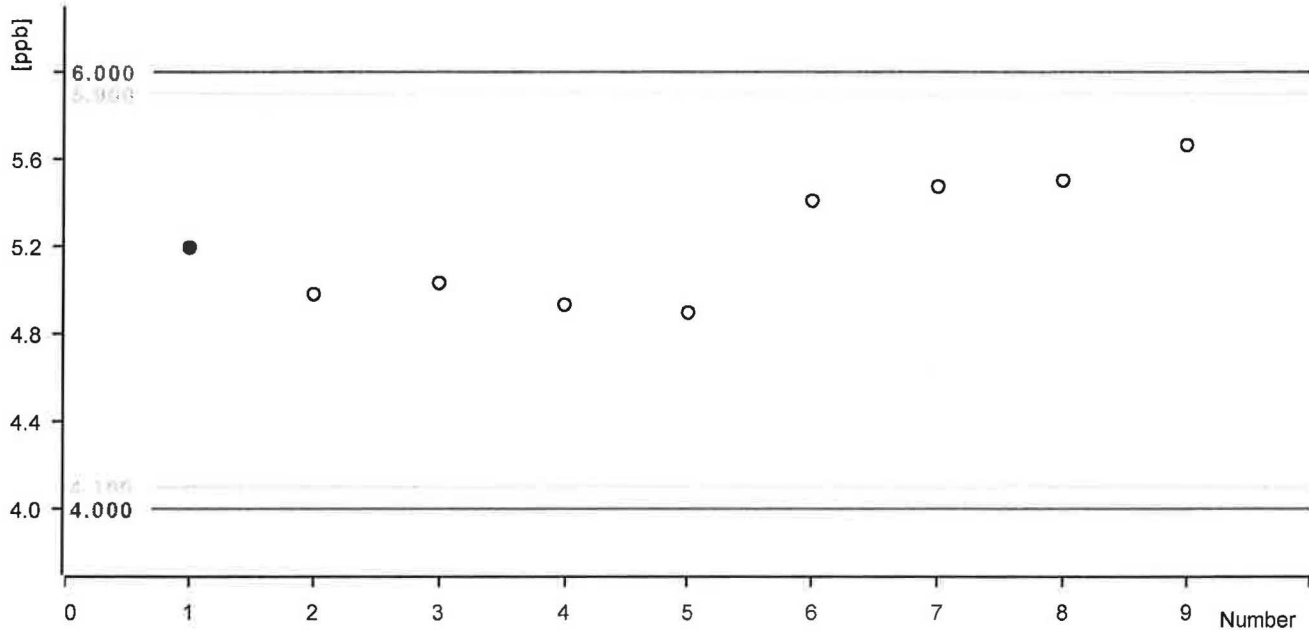
Date	Number	Ident	Sample type	Method	0.5PPB STD	Statistics
1 2014-01-03 14:16:56 UTC-5	1	QCS LOW	Sample	01032014 300.1	0.580 ppb	on
2 2014-01-06 17:53:59 UTC-5	2	QCS LOW	Sample	01032014 300.1	0.500 ppb	on
3 2014-01-06 19:47:16 UTC-5	3	QCS LOW	Sample	01032014 300.1	0.482 ppb	on
4 2014-01-07 16:13:12 UTC-5	4	QCS LOW	Sample	01032014 300.1	0.483 ppb	on
5 2014-01-07 18:44:09 UTC-5	5	QCS LOW	Sample	01032014 300.1	0.465 ppb	on
6 2014-01-08 17:01:50 UTC-5	6	QCS LOW	Sample	01032014 300.1	0.533 ppb	on
7 2014-01-08 19:32:43 UTC-5	7	QCS LOW	Sample	01032014 300.1	0.540 ppb	on
8 2014-01-21 18:48:45 UTC-5	8	QCS LOW	Sample	01032014 300.1	0.409 ppb	on
9 2014-01-22 15:57:36 UTC-5	9	QCS LOW	Sample	01032014 300.1	0.409 ppb	on

Control chart

SEOP

Comment

5PPB BROMATE



Statistics

Mean value:	5.232 ppb	Absolute standard deviation:	0.286 ppb
Minimum:	4.896 ppb	Relative standard deviation:	5.469 %
Maximum:	5.664 ppb	Number of determinations:	9

Date	Number	Ident	Sample type	Method	5PPB BROMATE	Statistics
1 2014-01-03 14:54:40 UTC-5	1	QCS MID	Sample	01032014 300,1	5.194 ppb	on
2 2014-01-06 18:31:43 UTC-5	2	QCS MID	Sample	01032014 300,1	4.981 ppb	on
3 2014-01-06 20:25:06 UTC-5	3	QCS MID	Sample	01032014 300,1	5.032 ppb	on
4 2014-01-07 16:50:55 UTC-5	4	QCS MID	Sample	01032014 300,1	4.933 ppb	on
5 2014-01-07 19:21:53 UTC-5	5	QCS MID	Sample	01032014 300,1	4.896 ppb	on
6 2014-01-08 17:39:33 UTC-5	6	QCS MID	Sample	01032014 300,1	5.409 ppb	on
7 2014-01-08 20:10:27 UTC-5	7	QCS MID	Sample	01032014 300,1	5.473 ppb	on
8 2014-01-09 15:47:41 UTC-5	8	QCS MID	Sample	01032014 300,1	5.501 ppb	on
9 2014-01-10 15:56:10 UTC-5	9	QCS MID	Sample	01032014 300,1	5.664 ppb	on



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 Brighton, Michigan 48114
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 e-mail: bai-brighton@sbcglobal.net
 MDNRE Certified #9404
 NELAC Accredited #176507

Sample Date/Time: 1/14/2014 12:20
 Submit Date/Time: 1/15/2014 10:35
 Report Date: 1/20/2014

Pall Corp.
 600 S. Wagner
 Bldg. 4
 Ann Arbor, MI 48103

BA Project # **27791**
 BA Sample ID **BZ05329**


Project Name: **Drinking Water Samples**
 Project Number:
 Sample ID: **5005 Jackson Rd.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
1,4-Dioxane(SIM)							
1,4-Dioxane (SIM)	13	ug/L	1		EPA 1624(SIM)	18:35	01/17/2014

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by 
 Date 1/21/14



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 Brighton, Michigan 48114
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 e-mail: bai-brighton@sbcglobal.net
 MDNRE Certified #9404
 NELAC Accredited #176507

Sample Date/Time: 1/15/2014 09:00
 Submit Date/Time: 1/15/2014 10:35
 Report Date: 1/20/2014

Pall Corp.
 600 S. Wagner
 Bldg. 4
 Ann Arbor, MI 48103

BA Project # **27791**
 BA Sample ID **BZ05330**

Project Name: **Drinking Water Samples**
 Project Number:
 Sample ID: **697 S. Wagne3r**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
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1,4-Dioxane(SIM)							
1,4-Dioxane (SIM)	Not detected	ug/L	1		EPA 1624(SIM)	18:15	01/17/2014

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.
 Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by 
 Date 1/21/14



BRIGHTON ANALYTICAL, LLC

**QUALITY ASSURANCE/QUALITY
CONTROL**

**GC/MS
VOLATILE METHOD 8260 SIM**

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: January 17, 2014

Spike Std. ID: 2229.6

Inst/Datec: _____

Vol5 GC/MS

Laboratory ID: BZ05422-23

Matrix: Water

Analyst: _____

CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	50.3	48.9	2.7	10	123	109	70-130	38	<1	93%

ug/L is equivalent to ppb

Comments: _____

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