



Pall Corporation

Sample Analysis Report

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February, 2012

Analyst Initials: SEOP
Date: 03-14-12

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							
D0							
5005 Jackson Rd-02-08-12-14:50-1	20	1.0					
Not Determined							
2828 Dexter Rd-02-14-12-11:01-c	40	1.0					
300 Glenwood-02-14-12-13:30-1	nd	1.0					
3041 Dexter Rd-02-16-12-14:21-1	7	1.0					
3300 Dexter Rd-02-15-12-12:35-1	nd	1.0					
3328-Dexter-Rd-02-15-12-14:38-c	nd	1.0					
415-Evergreen-Dr-02-16-12-12:30-c	nd	1.0					
697 South Wagner Rd-02-09-12-13:05-1	nd	1.0					
Extraction Wells							
C3							
DOLPH-02-06-12-09:26-1	59	1.0					
TW-10-02-06-12-09:00-1	560	1.0					
TW-20-02-06-12-09:04-1	1030	1.0					
D2							
LB-1-02-06-12-07:45-1	528	1.0					
LB-3-02-06-12-07:47-1	468	1.0					
TW-21-02-06-12-08:45-1	132	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
TW-5-02-06-12-08:54-1	645	1.0					
TW-9-02-06-12-09:10-1	778	1.0					
E							
TW-11-02-06-12-08:56-1	169	1.0					
TW-18-02-06-12-08:49-1	309	1.0					
TW-19-02-06-12-07:49-1	763	1.0					
Marshy							
PW-1-02-06-12-09:17-1	645	1.0					
SW							
TW-22-02-06-12-09:34-1	577	1.0					
TW-8-02-06-12-09:35-1	408	1.0					
Monitoring Wells							
C3							
MW-105s-02-09-12-14:20-1	664	1.0					
MW-125-02-02-12-11:30-1	247	1.0					
MW-127s-02-02-12-11:00-1	nd	1.0					
MW-39s-02-07-12-13:35-1	19	1.0					
D0							
A2 Cleaning Supply-02-06-12-11:00-1	68	1.0					
D2							
2819 Dexter Rd-02-08-12-14:30-1	628	1.0					
354-Pinewood-02-15-12-10:20-c	nd	1.0					
373 Pinewood Shallow-02-07-12-09:50-1	433	1.0					
465 Dupont-02-06-12-11:45-1	1071	1.0					
MW-124s-02-07-12-10:55-1	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-126s-02-01-12-12:10-1	nd	1.0					
MW-129i-02-01-12-14:50-1	nd	1.0					
MW-129s-02-01-12-13:40-1	nd	1.0					
MW-131s-02-01-12-11:40-1	nd	1.0					
MW-39d-02-07-12-14:00-1	147	1.0					
MW-54s-02-06-12-14:35-1	nd	1.0					
MW-77-02-06-12-12:35-1	1403	1.0					
MW-BE-1d-02-07-12-12:25-1	3	1.0					
MW-BE-1s-02-07-12-12:45-1	191	1.0					
MW-KD-1d-02-06-12-14:00-1	89	1.0					
MW-KD-1s-02-06-12-13:35-1	34	1.0					
E							
MW-103d-02-02-12-14:10-1	12	1.0					
MW-103s-02-02-12-13:25-1	34	1.0					
MW-105d-02-09-12-14:05-1	467	1.0					
MW-106s-02-08-12-13:35-1	201	1.0					
MW-108d-02-09-12-12:35-1	2269	1.0					
MW-108s-02-09-12-11:45-1	943	1.0					
MW-124d-02-07-12-11:35-1	nd	1.0					
MW-126d-02-01-12-13:00-1	nd	1.0					
MW-127d-02-02-12-10:45-1	nd	1.0					
MW-129d-02-01-12-14:20-1	nd	1.0					
MW-131d-02-01-12-11:15-1	nd	1.0					
MW-30d-02-09-12-c	893	1.0					
MW-90-02-02-12-13:00-1	18	1.0					
Surface Water							

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
Not Applicable							
HC/HR-02-01-12-08:50-1			<2.0	2.0			
HC/HR-02-02-12-08:50-1			nd	2.0			
HC/HR-02-03-12-08:40-1			nd	2.0			
HC/HR-02-06-12-08:10-1			nd	2.0			
HC/HR-02-07-12-08:30-1			nd	2.0			
HC/HR-02-08-12-09:50-1			nd	2.0			
HC/HR-02-09-12-08:40-1			nd	2.0			
HC/HR-02-10-12-08:45-1			nd	2.0			
HC/HR-02-13-12-08:10-1			nd	2.0			
HC/HR-02-14-12-08:10-1			nd	2.0			
HC/HR-02-15-12-08:20-1			nd	2.0			
HC/HR-02-16-12-08:25-1			nd	2.0			
HC/HR-02-17-12-07:40-1			nd	2.0			
HC/HR-02-21-12-10:00-1			nd	2.0			
HC/HR-02-22-12-08:20-1			nd	2.0			
HC/HR-02-23-12-07:20-1			nd	2.0			
HC/HR-02-24-12-08:05-1			nd	2.0			
HC/HR-02-27-12-08:05-1			nd	2.0			
HC/HR-02-28-12-08:10-1			nd	2.0			
HC/HR-02-29-12-08:35-1			nd	2.0			
Treatment System							
OUTFALL-02-01-12-1	6	1.0					
OUTFALL-02-01-12-4			6	5.0			
OUTFALL-02-02-12-1	5	1.0					
OUTFALL-02-02-12-4			nd	5.0			
OUTFALL-02-05-12-1	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-02-05-12-4			nd	5.0			
OUTFALL-02-06-12-1	5	1.0					
OUTFALL-02-06-12-2			5	5.0			
OUTFALL-02-07-12-1	5	1.0					
OUTFALL-02-07-12-2			nd	5.0			
OUTFALL-02-08-12-1	5	1.0					
OUTFALL-02-08-12-2			nd	5.0			
OUTFALL-02-09-12-1	4	1.0					
OUTFALL-02-09-12-2			nd	5.0			
OUTFALL-02-12-12-1	3	1.0					
OUTFALL-02-12-12-2			nd	5.0			
OUTFALL-02-13-12-1	4	1.0					
OUTFALL-02-13-12-2			nd	5.0			
OUTFALL-02-14-12-1	4	1.0					
OUTFALL-02-14-12-2			nd	5.0			
OUTFALL-02-15-12-1	4	1.0					
OUTFALL-02-15-12-2			nd	5.0			
OUTFALL-02-16-12-1	2	1.0					
OUTFALL-02-16-12-2			nd	5.0			
OUTFALL-02-19-12-1	4	1.0					
OUTFALL-02-19-12-2			6	5.0			
OUTFALL-02-20-12-1	3	1.0					
OUTFALL-02-20-12-2			7	5.0			
OUTFALL-02-21-12-1	4	1.0					
OUTFALL-02-21-12-2			6	5.0			
OUTFALL-02-22-12-c	4	1.0					
OUTFALL-02-22-12-2			nd	5.0			

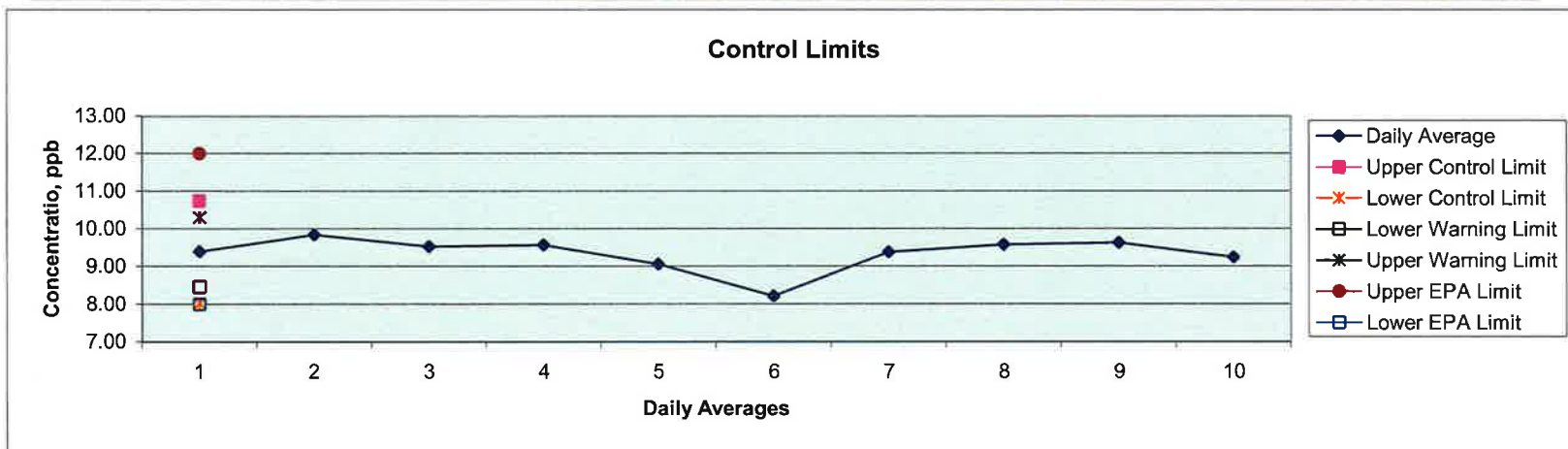
Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
OUTFALL-02-23-12--c	4	1.0					
OUTFALL-02-23-12-2			nd	5.0			
OUTFALL-02-26-12-1	4	1.0					
OUTFALL-02-26-12-2			nd	5.0			
OUTFALL-02-27-12-1	4	1.0					
OUTFALL-02-27-12-2			8	5.0			
OUTFALL-02-28-12-1	4	1.0					
OUTFALL-02-28-12-2			4	5.0			
OUTFALL-02-29-12-1	4	1.0					
OUTFALL-02-29-12-2			nd	5.0			
Red Pond-02-06-12-07:33-1	548	1.0					
Red-Pond-02-13-12-09:40-c	502	1.0					
Red-Pond-02-21-12-07:15-c	544	1.0					
Red-Pond-02-27-12-09:40-c	507	1					

Control Chart for 02/2012 CVS

Analyst: Susan E.O. Peters
03-14-12

GC/MS Data: #2
Report Date: 3/14/2012
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 2/1/2012
End date: 2/29/2012
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								
2/2/2012	9.40				9.40	9.38	na	0.45	8.02	10.74	8.47	10.29
2/3/2012	9.84				9.84	9.38	na	0.45	8.02	10.74	8.47	10.29
2/6/2012	9.41	9.35	9.83		9.53	9.38	0.26	0.45	8.02	10.74	8.47	10.29
2/7/2012	9.93	9.22			9.58	9.38	0.50	0.45	8.02	10.74	8.47	10.29
2/9/2012	9.72	8.54	8.92		9.06	9.38	0.60	0.45	8.02	10.74	8.47	10.29
2/13/2012	8.21				8.21	9.38	na	0.45	8.02	10.74	8.47	10.29
2/22/2012	8.46	10.31			9.39	9.38	1.31	0.45	8.02	10.74	8.47	10.29
2/23/2012	8.65	10.51			9.58	9.38	1.32	0.48	7.93	10.82	8.41	10.34
2/28/2012	9.25	10.01			9.63	9.38	0.54	0.45	8.02	10.74	8.47	10.29
2/29/2012	9.24				9.24	9.38	na	0.45	8.02	10.74	8.47	10.29

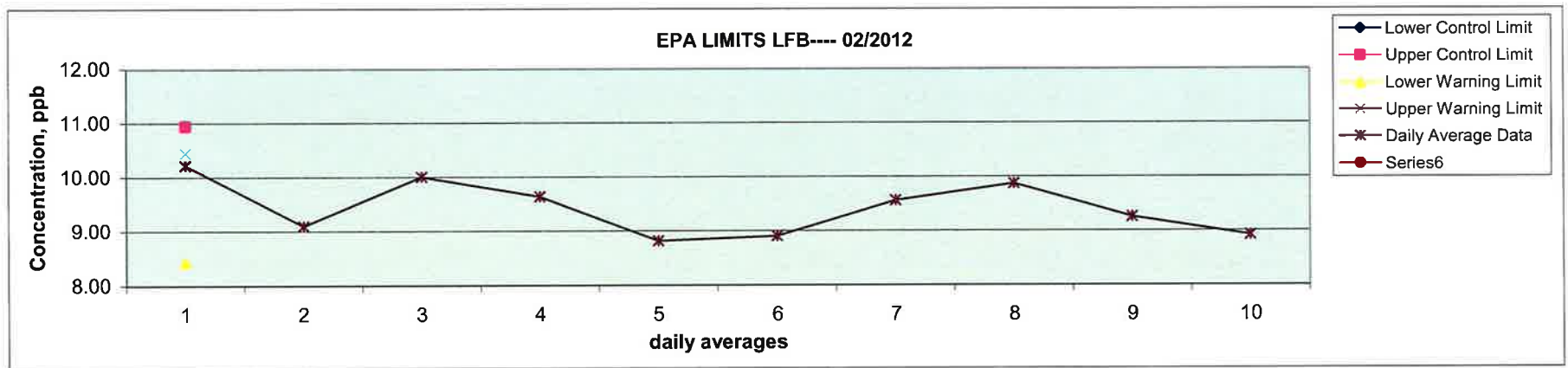


Control Chart for 02/2012 LFB

Analyst: Susan E.O. Peters
03-14-12

GC/MS Data: #2
Report Date: 3/14/2012
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 2/1/2012
End date: 2/29/2012
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	LFB 7								
2/2/2012	10.58	9.86						10.22	9.45	0.51	0.50	7.94	10.95	8.44	10.45
2/3/2012	8.75	9.45						9.10	9.45	0.49	0.50	7.94	10.95	8.44	10.45
2/6/2012	10.05	9.98	9.98	10.07	10.09	9.86		10.01	9.45	0.08	0.50	7.94	10.95	8.44	10.45
2/7/2012	10.14	9.56	9.34	9.64	9.50			9.64	9.45	0.30	0.50	7.94	10.95	8.44	10.45
2/9/2012	9.42	9.88	8.39	8.50	8.59	8.53	8.41	8.82	9.45	0.59	0.50	7.94	10.95	8.44	10.45
2/13/2012	8.60	9.29	8.81					8.90	9.45	0.35	0.50	7.94	10.95	8.44	10.45
2/22/2012	9.27	9.85						9.56	9.45	0.41	0.50	7.94	10.95	8.44	10.45
2/23/2012	9.70	9.33	10.65	10.34	9.33			9.87	9.45	0.60	0.50	7.94	10.95	8.44	10.45
2/28/2012	10.39	9.17	8.64	9.11	8.98			9.26	9.45	0.67	0.50	7.94	10.95	8.44	10.45
2/29/2012	8.92							8.92	9.45	na	0.50	7.94	10.95	8.44	10.45



Control Chart for 02/2012 MS/MSD %Recoveries

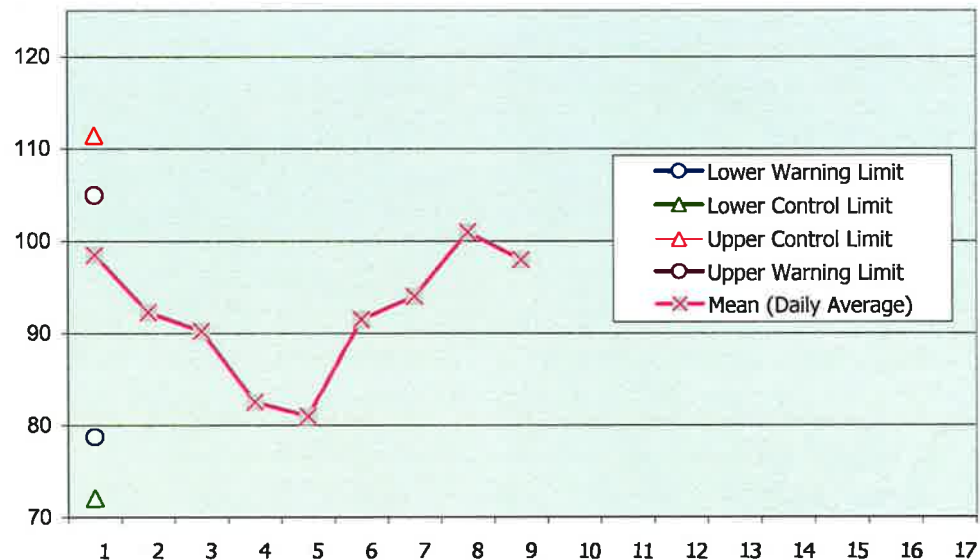
Analyst: Susan E.O. Peters
03-14-12

GC/MS Data: #2
Report Date: 3/14/2012
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 2/1/2012
End date: 2/29/2012
Desired level: 100%

EPA LIMITS +/-20%

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
	MS 1	MSD 1	MS 2	MSD 2	MS 3	MSD 3								
2/2/2012	95	82					88.50	91.85	9.19	6.58	72.11	111.58	78.69	105.00
2/3/2012	90	107					98.50							
2/6/2012	99	85	91	94			92.25							
2/7/2012	91	99	80	91			90.25							
2/9/2012	88	77					82.50							
2/13/2012	80	82					81.00							
2/22/2012	93	90					91.50							
2/23/2012	88	99	90	99			94.00							
2/28/2012	99	103					101.00							
2/29/2012	104	92					98.00							

02/2012 MS/MSD with Control Limits

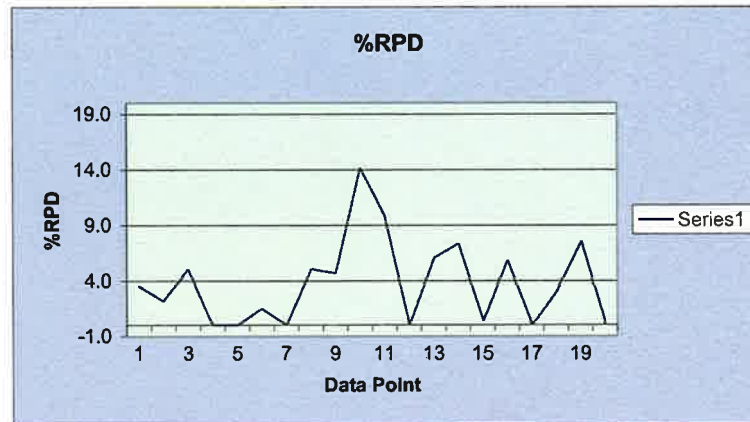
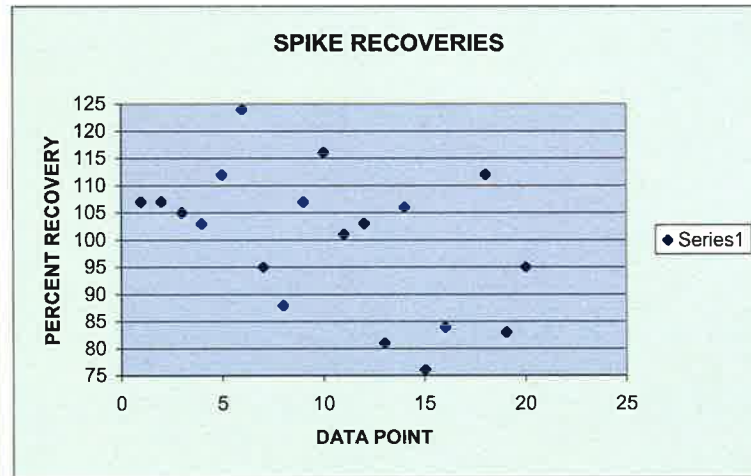


Control Chart for 02/2012 MS/MSD & Repeat %Recoveries

Analyst: Susan E.O. Peters
03-14-12

IC: Metrohm
 Report Date: 3/14/2012
 Chemist: Susan E.O. Peters
 Dept: Environmental
 Analyte: Bromate
 Start date: 2/1/2012
 End date: 2/29/2012
 Desired level: 100%

MS Recoveries and Replicate Recoveries									
Sample Date	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	n	
2/1/2012	103	111	107	3.6	5.6	0.08	0.071	3	
2/3/2012	105	109	107	2.2	1.4	na	na	na	
2/6/2012	101	109	105	5.1	5.6	na	na	na	
2/7/2012	103	na	103	na	na	5.43	0.074	2	
2/9/2012	112	na	112	na	na	2.07	0.436	4	
2/8/2012	125	123	124	1.5	1.4	na	na	na	
2/10/2012	95	95	95	0.002	0.23	0.68	0.33	2	
2/14/2012	92	84	88	5.1	5.0	na	na	na	
2/14/2012	111	104	107	4.7	4.9	na	na	na	
2/16/2012	107	124	116	14.2	12.0	3.59	0.16	2	
2/17/2012	90	113	101	9.9	16.3	na	na	na	
2/17/2012	103	na	103	na	na	na	na	na	
2/22/2012	83	78	81	6.1	3.5	na	na	na	
2/23/2012	102	110	106	7.4	5.6	6.23	0.21	2	
2/23/2012	76	76	76	0.39	0.21	6.64	0.30	2	
2/23/2012	81	86	84	5.9	3.5	6.45	0.21	2	
2/23/2012	na	na	na	na	na	3.53	0.069	2	
2/24/2012	110	114	112	3.1	2.80	2.14	0.310	3	
2/24/2012	78	88	83	7.6	7.07	na	na	n	
2/24/2012	95	na	95	na	na	1.88	0.92	2	

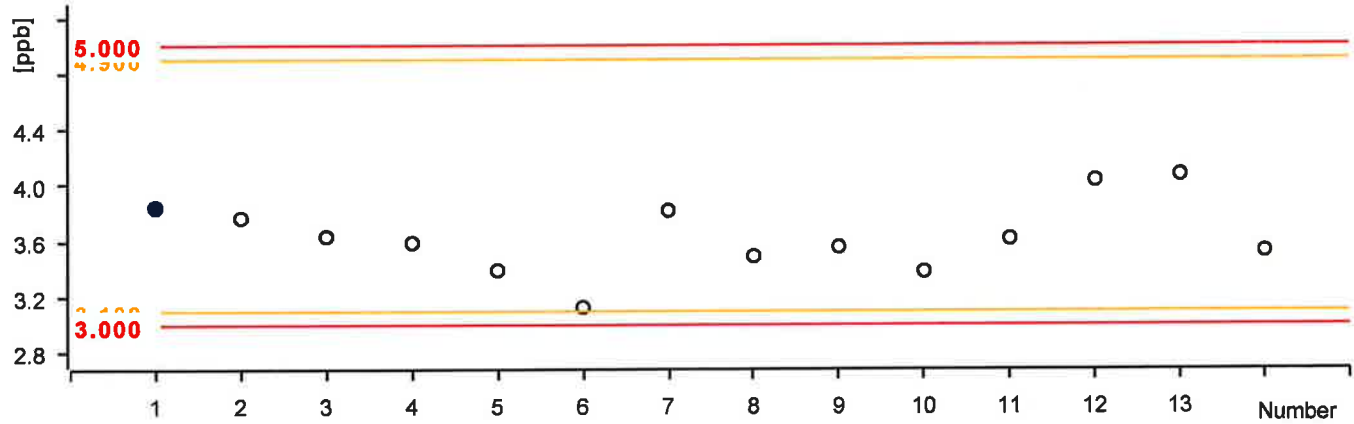


Control chart

Susan W EOP Review 03-16-12

Comment

ECCS. CCCS with Calculated LIMITS



Statistics

Mean value:	3.631 ppb	Absolute standard deviation:	0.258 ppb
Minimum:	3.127 ppb	Relative standard deviation:	7.115 %
Maximum:	4.071 ppb	Number of determinations:	14

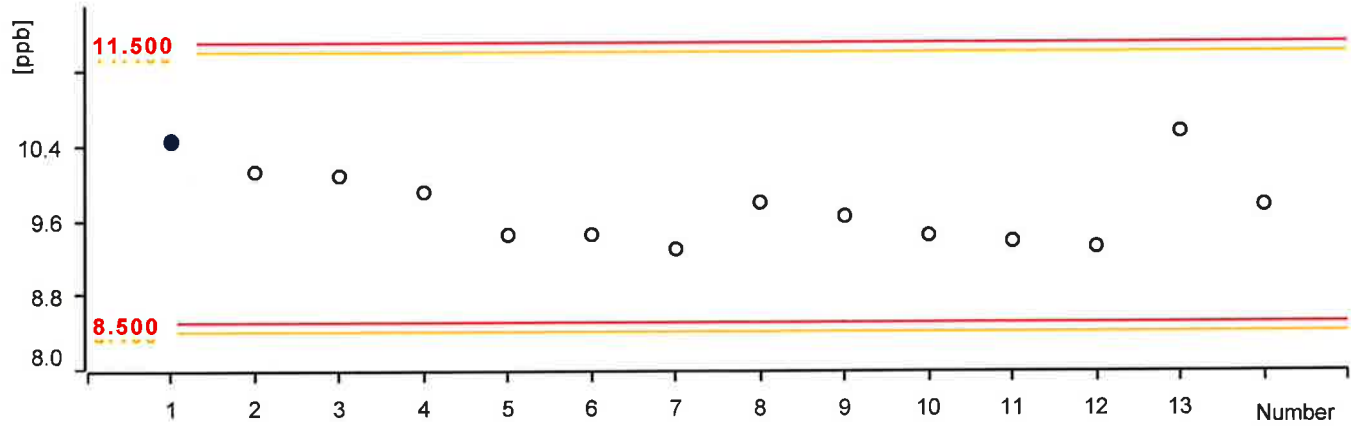
Date	Number	Ident	Sample type	Method	ECCS. CCCS with Calculated LIMITS	Statistics
2012-02-03 15:23:09 UTC-5	1	ECCS/CCCS	Sample	300.1 02012012	3.845 ppb	on
2012-02-06 14:40:48 UTC-5	2	ECCS/CCCS	Sample	300.1 02012012	3.767 ppb	on
2012-02-07 14:20:40 UTC-5	3	ECCS/CCCS	Sample	300.1 02012012	3.633 ppb	on
2012-02-08 19:18:22 UTC-5	4	ECCS/CCCS	Sample	300.1 02012012	3.589 ppb	on
2012-02-09 18:44:13 UTC-5	5	ECCS/CCCS	Sample	300.1 02012012	3.391 ppb	on
2012-02-10 18:54:14 UTC-5	6	ECCS/CCCS	Sample	300.1 02012012	3.127 ppb	on
2012-02-13 20:14:39 UTC-5	7	ECCS/CCCS	Sample	300.1 02012012	3.817 ppb	on
2012-02-14 16:14:36 UTC-5	8	ECCS/CCCS	Sample	300.1 02012012	3.490 ppb	on
2012-02-15 14:21:41 UTC-5	9	ECCS/CCCS	Sample	300.1 02012012	3.555 ppb	on
2012-02-16 20:09:05 UTC-5	10	ECCS/CCCS	Sample	300.1 02012012	3.380 ppb	on
2012-02-17 16:56:35 UTC-5	11	ECCS/CCCS	Sample	300.1 02012012	3.614 ppb	on
2012-02-22 16:24:47 UTC-5	12	ECCS/CCCS	Sample	300.102212012	4.033 ppb	on
2012-02-23 20:32:20 UTC-5	13	ECCS/CCCS	Sample	300.102212012	4.071 ppb	on
2012-02-24 19:35:02 UTC-5	14	ECCS/CCCS	Sample	300.102212012	3.524 ppb	on

Control chart

Susan W. Peters 03-16-12

Comment

Bromate QCS concentration, ppb



Statistics

Mean value:	9.748 ppb	Absolute standard deviation:	0.416 ppb
Minimum:	9.280 ppb	Relative standard deviation:	4.268 %
Maximum:	10.540 ppb	Number of determinations:	14

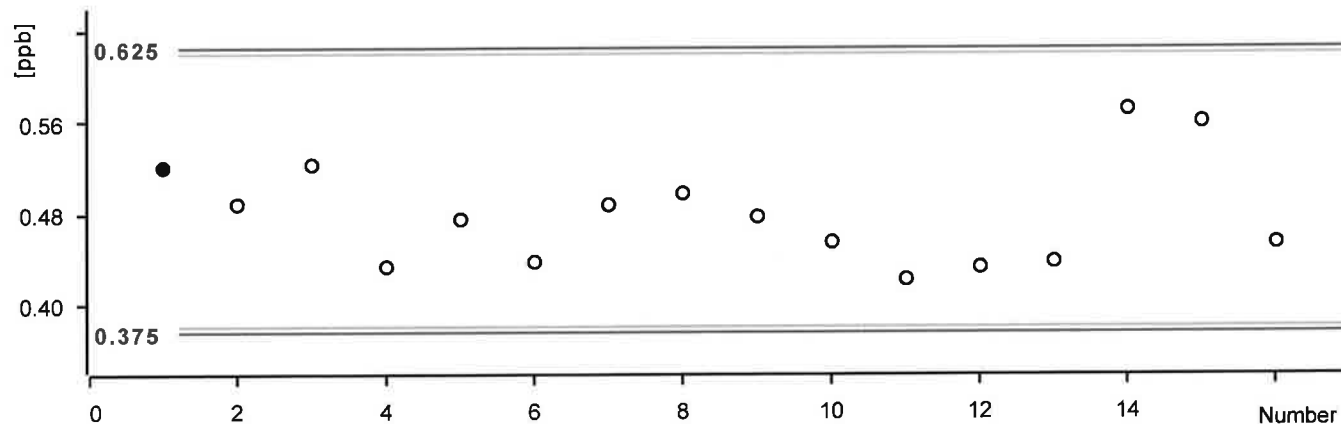
Date	Number	Ident	Sample type	Method	Bromate QCS concentration, ppb	Statistics
2012-02-01 13:00:22 UTC-5	1	QCS	Sample	300.1 02012012	10.449 ppb	on
2012-02-02 04:00:31 UTC-5	2	QCS	Sample	300.1 02012012	10.113 ppb	on
2012-02-03 15:57:52 UTC-5	3	QCS	Sample	300.1 02012012	10.070 ppb	on
2012-02-06 15:15:35 UTC-5	4	QCS	Sample	300.1 02012012	9.895 ppb	on
2012-02-07 14:55:32 UTC-5	5	QCS	Sample	300.1 02012012	9.436 ppb	on
2012-02-08 19:53:05 UTC-5	6	QCS	Sample	300.1 02012012	9.437 ppb	on
2012-02-09 19:18:56 UTC-5	7	QCS	Sample	300.1 02012012	9.280 ppb	on
2012-02-13 20:49:23 UTC-5	8	QCS	Sample	300.1 02012012	9.779 ppb	on
2012-02-14 16:49:19 UTC-5	9	QCS	Sample	300.1 02012012	9.632 ppb	on
2012-02-15 14:56:23 UTC-5	10	QCS	Sample	300.1 02012012	9.427 ppb	on
2012-02-16 20:43:47 UTC-5	11	QCS	Sample	300.1 02012012	9.365 ppb	on
2012-02-17 17:31:18 UTC-5	12	QCS	Sample	300.1 02012012	9.304 ppb	on
2012-02-23 21:07:03 UTC-5	13	QCS	Sample	300.102212012	10.540 ppb	on
2012-02-24 20:09:45 UTC-5	14	QCS	Sample	300.102212012	9.748 ppb	on

Control chart

Susan DEO Review 03-16-12

Comment

ICCS/LFB concentration, ppb



Statistics

Mean value:	0.479 ppb	Absolute standard deviation:	0.046 ppb
Minimum:	0.421 ppb	Relative standard deviation:	9.578 %
Maximum:	0.571 ppb	Number of determinations:	16

Date	Number	Ident	Sample type	Method	ICCS/LFB concentration, ppb	Statistics
2012-02-01 16:45:00 UTC-5	1	ICCS/LFB	Sample	300.1 02012012	0.520 ppb	on
2012-02-03 09:25:48 UTC-5	2	ICCS/LFB	Sample	300.1 0 012012	0.488 ppb	on
2012-02-06 09:28:05 UTC-5	3	ICCS/LFB	Sample	300.1 02012012	0.522 ppb	on
2012-02-07 08:33:21 UTC-5	4	ICCS/LFB	Sample	300.1 02012012	0.433 ppb	on
2012-02-07 10:17:32 UTC-5	5	ICCS/LFB	Sample	300.1 02012012	0.474 ppb	on
2012-02-08 13:31:02 UTC-5	6	ICCS/LFB	Sample	300.1 02012012	0.437 ppb	on
2012-02-09 14:41:07 UTC-5	7	ICCS/LFB	Sample	300.1 02012012	0.487 ppb	on
2012-02-10 11:57:35 UTC-5	8	ICCS/LFB	Sample	300.1 02012012	0.497 ppb	on
2012-02-13 16:11:40 UTC-5	9	ICCS/LFB	Sample	300.1 02012012	0.477 ppb	on
2012-02-14 09:52:42 UTC-5	10	ICCS/LFB	Sample	300.1 02012012	0.454 ppb	on
2012-02-15 10:53:22 UTC-5	11	ICCS/LFB	Sample	300.1 02012012	0.421 ppb	on
2012-02-16 13:40:14 UTC-5	12	ICCS/LFB	Sample	300.1 02012012	0.432 ppb	on
2012-02-17 12:18:54 UTC-5	13	ICCS/LFB	Sample	300.1 02012012	0.437 ppb	on
2012-02-22 10:02:48 UTC-5	14	ICCS/LFB	Sample	300.102212012	0.571 ppb	on
2012-02-23 09:32:40 UTC-5	15	ICCS/LFB	Sample	300.102212012	0.560 ppb	on
2012-02-24 09:44:35 UTC-5	16	ICCS/LFB	Sample	300.102212012	0.453 ppb	on