



Pall Corporation

Sample Analysis Report

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September, 2012

Analyst Initials: SEOP
Date: 11-2-12

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
Extraction Wells							
C3							
DOLPH-09-10-12-08:44-1	54	1.0					
TW-20-09-10-12-10:20-1	1000	1.0					
D2							
LB-1-09-10-12-08:05-1	570	1.0					
LB-3-09-10-12-08:03-1	490	1.0					
TW-21-09-10-12-10:00-1	180	1.0					
TW-5-09-10-12-10:05-1	800	1.0					
TW-9-09-10-12-10:30-1	810	1.0					
E							
TW-18-09-10-12-08:46-1	310	1.0					
TW-19-09-10-12-08:00-1	820	1.0					
Marshy							
PW-1-09-10-12-08:48-1	1300	1.0					
Not Applicable							
SW-COMB-09-10-12-08:42-1	490	1.0					
SW							
TW-22-09-10-12-11:22-1	600	1.0					
TW-8-09-10-12-11:20-1	470	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
Monitoring Wells							
D0							
A2 Cleaning Supply-09-06-12-08:00-1	84	1.0					
Surface Water							
Not Applicable							
HC/HR-09-04-12-08:45-1			nd	2.0			
HC/HR-09-05-12-08:10-1			nd	2.0			
HC/HR-09-06-12-08:25-1			nd	2.0			
HC/HR-09-07-12-08:15-1			nd	2.0			
HC/HR-09-10-12-08:25-1			nd	2.0			
HC/HR-09-11-12-08:25-1			nd	2.0			
HC/HR-09-11-12-08:25-01			nd	2.0			
HC/HR-09-12-12-08:55-1			nd	2.0			
HC/HR-09-13-12-08:15-1			nd	2.0			
HC/HR-09-14-12-08:45-1			nd	2.0			
HC/HR-09-17-12-07:55-1			nd	2.0			
HC/HR-09-18-12-07:55-1			nd	2.0			
HC/HR-09-19-12-07:15-1			nd	2.0			
HC/HR-09-20-12-08:25-1			nd	2.0			
HC/HR-09-21-12-08:00-1			nd	2.0			
HC/HR-09-24-12-08:35-1			nd	2.0			
HC/HR-09-25-12-08:10-1			nd	2.0			
HC/HR-09-26-12-08:10-1			nd	2.0			
HC/HR-09-27-12-08:15-1			nd	2.0			
HC/HR-09-28-12-08:35-1			nd	2.0			
Treatment System							

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-09-02-12-1	3	1.0					
OUTFALL-09-02-12-2			nd	5.0			
OUTFALL-09-03-12-1	3	1.0					
OUTFALL-09-03-12-2			nd	5.0			
OUTFALL-09-04-12-1	3	1.0					
OUTFALL-09-04-12-2			nd	5.0			
OUTFALL-09-05-12-1	4	1.0					
OUTFALL-09-05-12-2			nd	5.0			
OUTFALL-09-06-12-1	4	1.0					
OUTFALL-09-06-12-2			nd	5.0			
OUTFALL-09-09-12-1	2	1.0					
OUTFALL-09-09-12-2			nd	5.0			
OUTFALL-09-10-12-1	3	1.0					
OUTFALL-09-10-12-2			nd	5.0			
OUTFALL-09-11-12-1	3	1.0					
OUTFALL-09-11-12-2			nd	5.0			
OUTFALL-09-12-12-1	4	1.0					
OUTFALL-09-12-12-2			nd	5.0			
OUTFALL-09-13-12-1	3	1.0					
OUTFALL-09-13-12-2			nd	5.0			
OUTFALL-09-16-12-1	4	1.0					
OUTFALL-09-16-12-2			7	5.0			
OUTFALL-09-17-12-1	4	1.0					
OUTFALL-09-17-12-2			nd	5.0			
OUTFALL-09-18-12-1	4	1.0					
OUTFALL-09-18-12-2			nd	5.0			
OUTFALL-09-19-12-1	3	1.0					

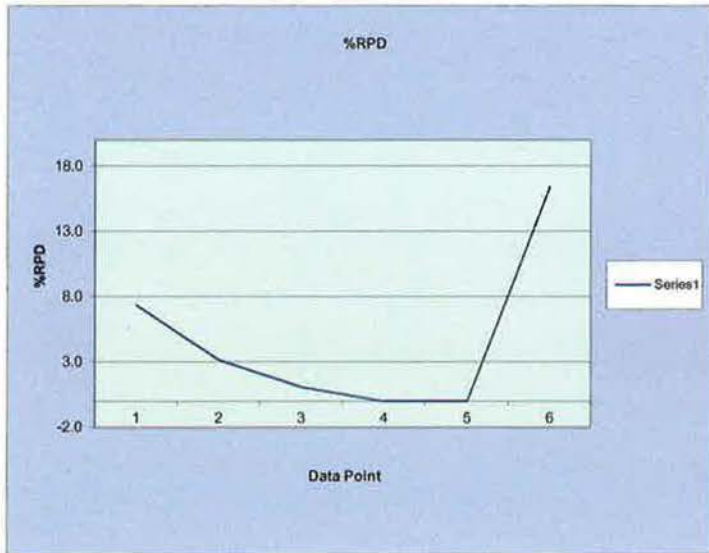
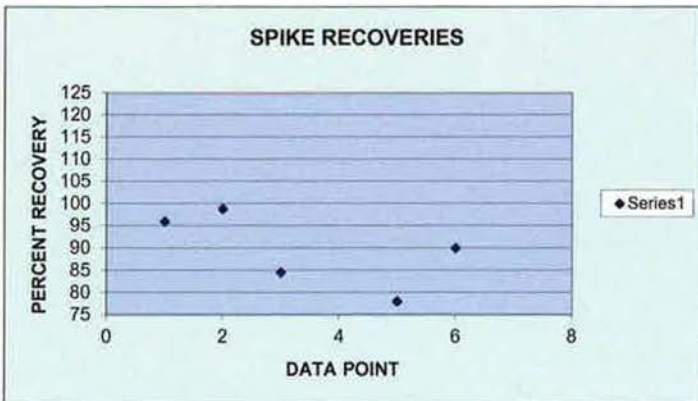
Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
OUTFALL-09-19-12-2			nd	5.0			
OUTFALL-09-20-12-1	3	1.0					
OUTFALL-09-20-12-2			nd	5.0			
OUTFALL-09-23-12-1	3	1.0					
OUTFALL-09-23-12-2			nd	5.0			
OUTFALL-09-24-12-1	3	1.0					
OUTFALL-09-24-12-2			8	5.0			
OUTFALL-09-25-12-1	3	1.0					
OUTFALL-09-25-12-2			8	5.0			
OUTFALL-09-26-12-1	3	1.0					
OUTFALL-09-26-12-2			nd	5.0			
OUTFALL-09-27-12-1	3	1.0					
OUTFALL-09-27-12-2			nd	5.0			
OUTFALL-09-30-12-1	3	1.0					
OUTFALL-09-30-12-2			7	5.0			
Red Pond-09-04-12-09:00-1	480	1.0					
Red Pond-09-10-12-11:10-1	550	1.0					
Red Pond-09-17-12-07:55-1	500	1.0					
Red Pond-09-24-12-08:50-1	470	1.0					

Control Chart for 09/2012 MS/MSD & Repeat %Recoveries

Analyst: Buseen E.O. Peters
11-02-12

IC: Metrohm
 Report Date: 11/2/2012
 Chemist: Susan E.O. Peters
 Dept: Environmental
 Analyte: Bromate
 Start date: 9/1/2012
 End date: 9/30/2012
 Desired level: 100%

Analysis Date	MS Recoveries and Replicate Recoveries							
	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 =
10/16/2012	100	92	96	7.4	5.5	1.53	0.26	2
10/16/2012	101	97	99	3.2	3.1	7.37	0.18	2
10/16/2012	84	85	85	1.12	0.8	0.65	0.01	2
10/16/2012	na	na	na	na	na	6.78	0.43	2
10/22/2012	78	na	78	na	na	nd	na	2
10/22/2012	103	78	90	16.4	17.7	2.54	0.12	2

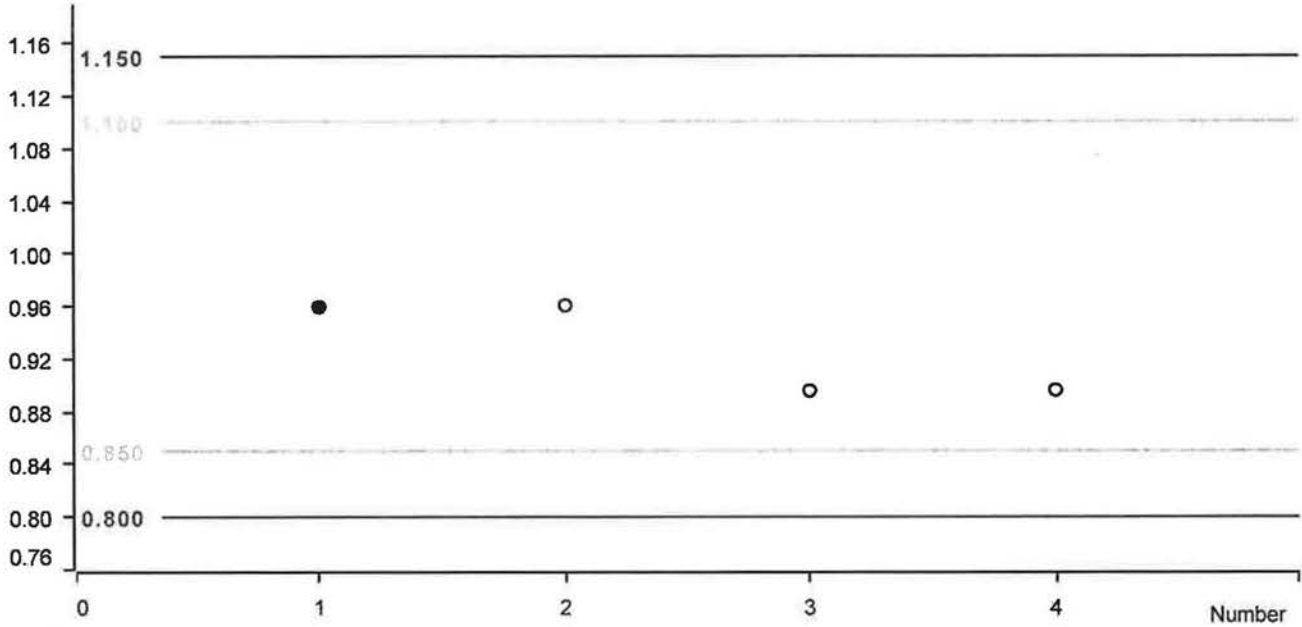


Control chart

3EOP 11-02-12

Comment

Dichloroacetate Gaussian factor



Statistics

Mean value:	0.928	Absolute standard deviation:	0.037
Minimum:	0.896	Relative standard deviation:	3.978 %
Maximum:	0.961	Number of determinations:	4

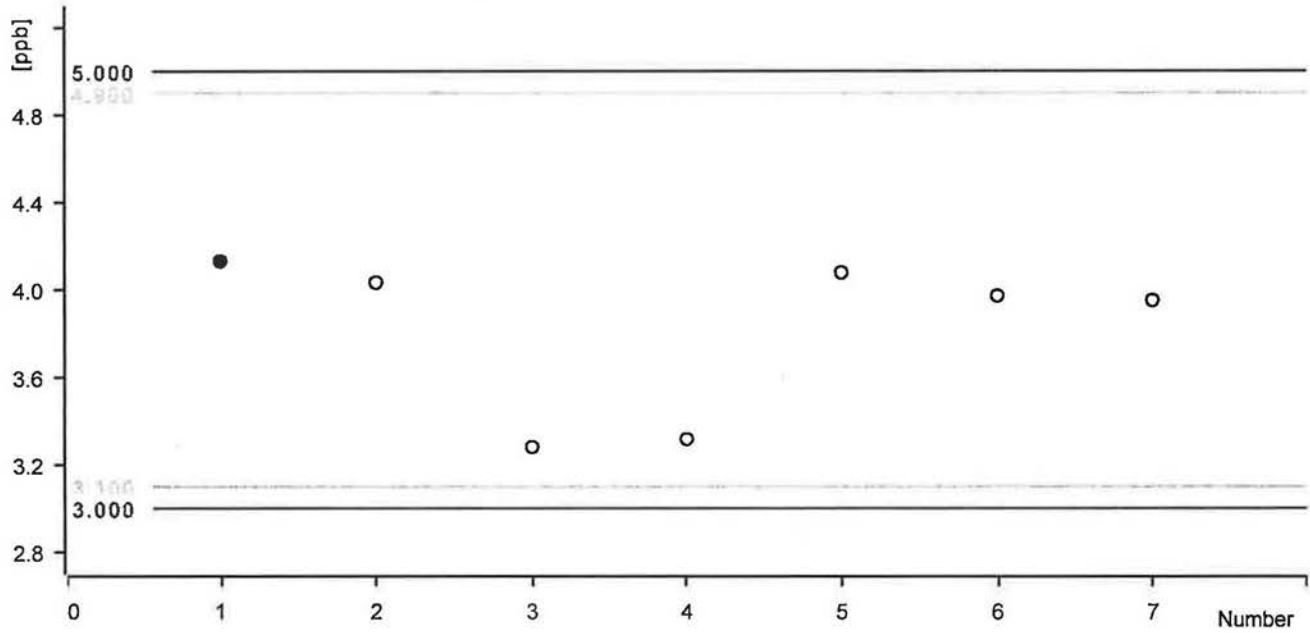
Date	Number	Ident	Sample type	Method	Dichloroacetate Gaussian factor	Statistics
1 2012-10-15 09:35:35 UTC-4	1	ICCS/LFB	Sample	300.1 10122012	0.959	on
2 2012-10-15 11:14:12 UTC-4	2	ICCS/LFB	Sample	300.1 10122012	0.961	on
3 2012-10-21 17:43:01 UTC-4	3	ICCS/LFB	Sample	10202012 300.1	0.896	on
4 2012-10-21 18:21:45 UTC-4	4	ICCS/LFB	Sample	10202012 300.1	0.896	on

Control chart

SEOP 11-02-12

Comment

ECCS. CCCS Bromate std 4ppb



Statistics

Mean value:	3.823 ppb	Absolute standard deviation:	0.363 ppb
Minimum:	3.282 ppb	Relative standard deviation:	9.494 %
Maximum:	4.131 ppb	Number of determinations:	7

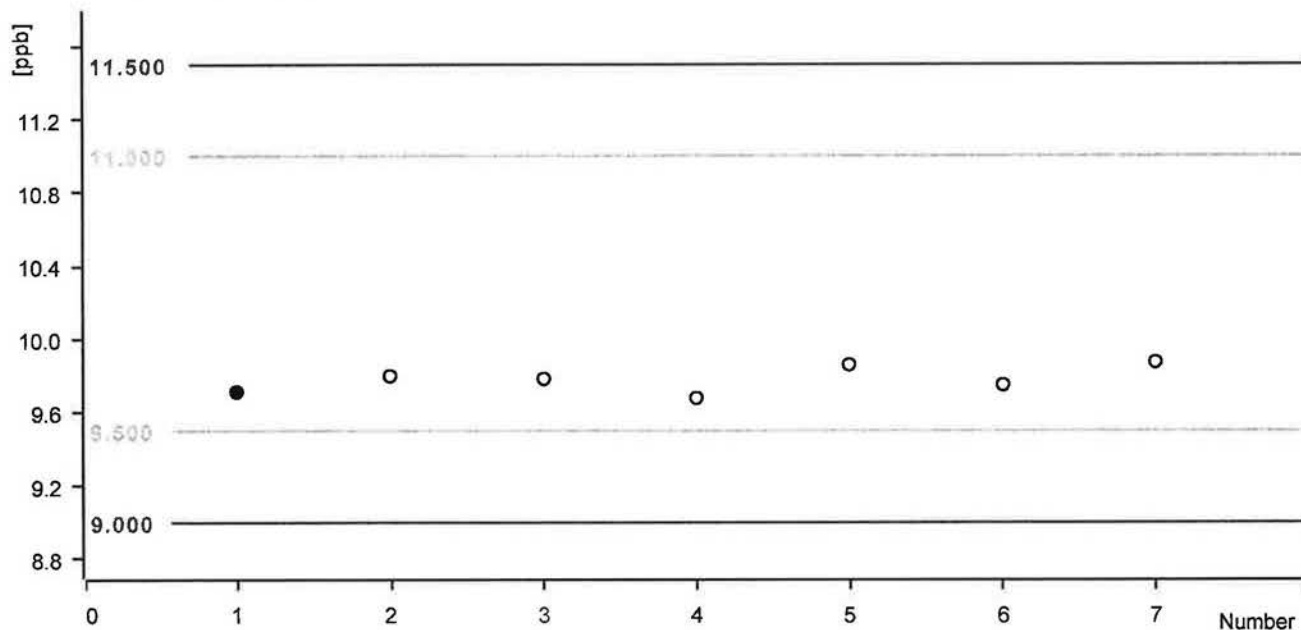
Date	Number	Ident	Sample type	Method	ECCS, CCCS Bromate std 4ppb	Statistics
2012-10-16 01:55:21 UTC-4	1	ECCS/CCCS	Sample	300.1 10122012	4.131 ppb	on
2012-10-16 02:33:15 UTC-4	2	ECCS/CCCS	Sample	300.1 10122012	4.033 ppb	on
2012-10-16 18:20:31 UTC-4	3	ECCS/CCCS	Sample	300.1 10122012	3.282 ppb	on
2012-10-16 18:58:33 UTC-4	4	ECCS/CCCS	Sample	300.1 10122012	3.317 ppb	on
2012-10-22 05:20:01 UTC-4	5	ECCS/CCCS	Sample	10202012 300.1	4.078 ppb	on
2012-10-22 05:58:45 UTC-4	6	ECCS/CCCS	Sample	10202012 300.1	3.972 ppb	on
2012-10-22 06:37:29 UTC-4	7	ECCS/CCCS	Sample	10202012 300.1	3.951 ppb	on

Control chart

SEOP 11-02-12

Comment

Concentration DCA



Statistics

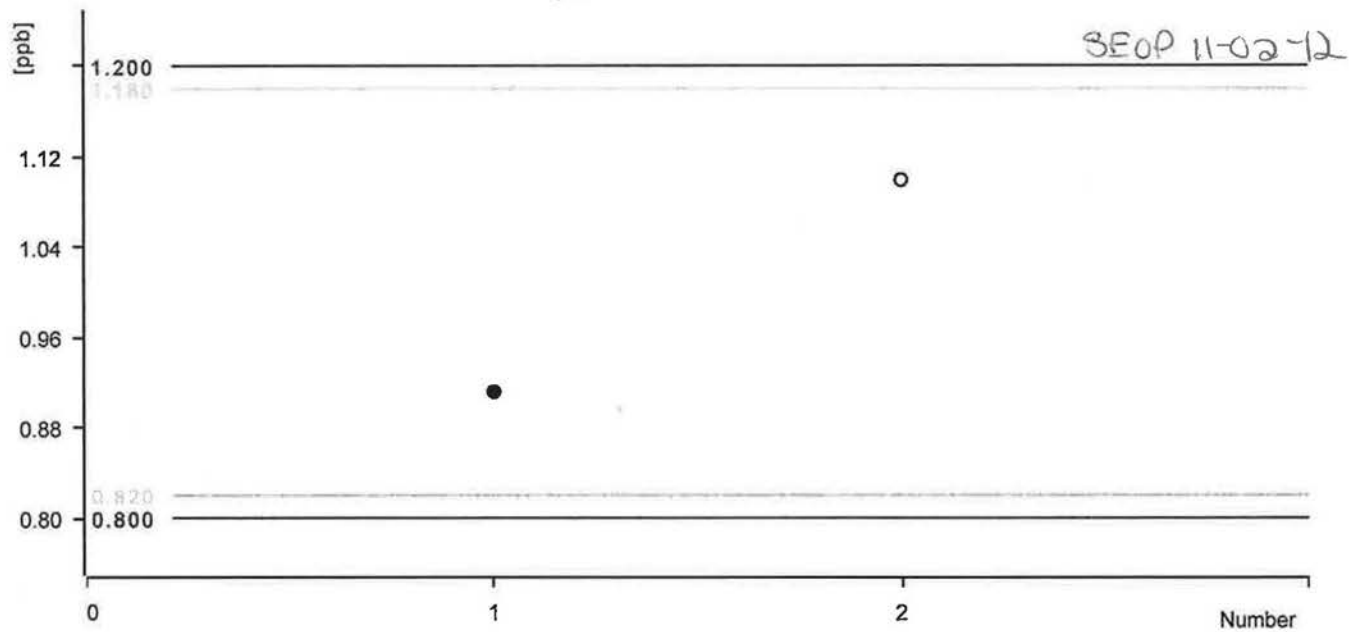
Mean value:	9.778 ppb	Absolute standard deviation:	0.072 ppb
Minimum:	9.677 ppb	Relative standard deviation:	0.736 %
Maximum:	9.871 ppb	Number of determinations:	7

Date	Number	Ident	Sample type	Method	Concentration DCA	Statistics
2012-10-16 01:55:21 UTC-4	1	ECCS/CCCS	Sample	300.1 10122012	9.711 ppb	on
2012-10-16 02:33:15 UTC-4	2	ECCS/CCCS	Sample	300.1 10122012	9.797 ppb	on
2012-10-16 18:20:31 UTC-4	3	ECCS/CCCS	Sample	300.1 10122012	9.762 ppb	on
2012-10-16 18:58:33 UTC-4	4	ECCS/CCCS	Sample	300.1 10122012	9.577 ppb	on
2012-10-22 05:20:01 UTC-4	5	ECCS/CCCS	Sample	10202012 300.1	9.858 ppb	on
2012-10-22 05:58:45 UTC-4	6	ECCS/CCCS	Sample	10202012 300.1	9.748 ppb	on
2012-10-22 06:37:29 UTC-4	7	ECCS/CCCS	Sample	10202012 300.1	9.871 ppb	on

Control chart

Comment

ICCS/LFB concentration, ppb @ 1 ppb



Statistics

Mean value:	1.005 ppb	Absolute standard deviation:	0.133 ppb
Minimum:	0.912 ppb	Relative standard deviation:	13.181 %
Maximum:	1.099 ppb	Number of determinations:	2

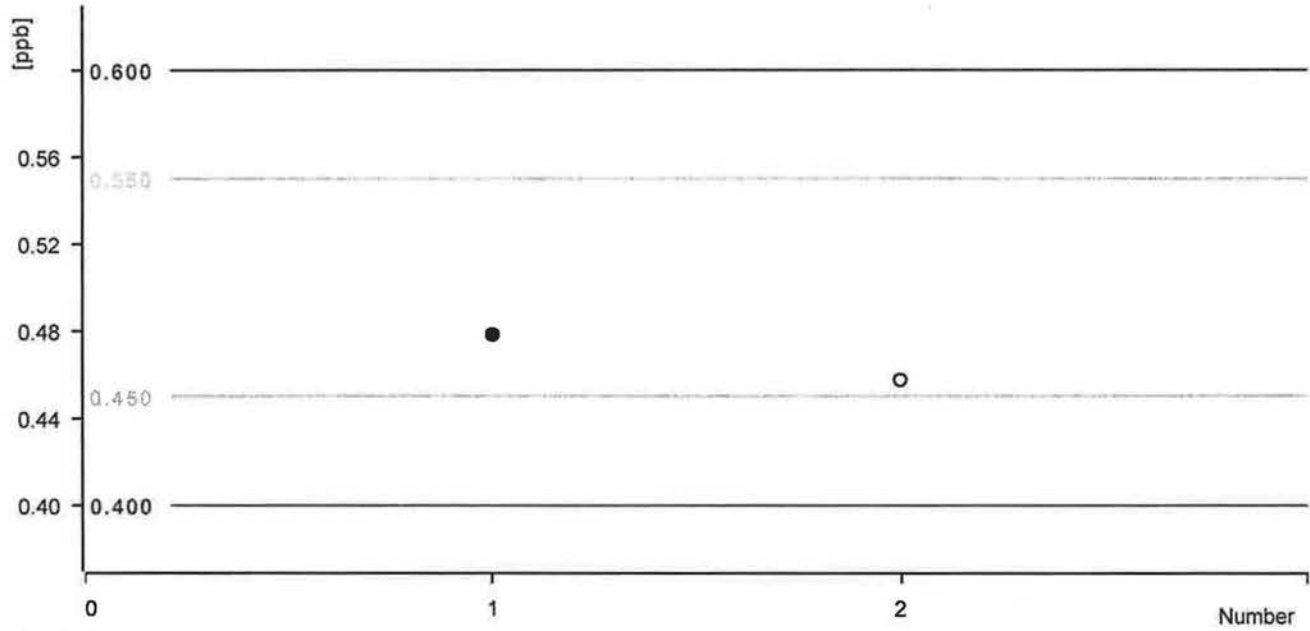
Date	Number	Ident	Sample type	Method	ICCS/LFB concentration, ppb	Statistics
2012-10-15 09:35:35 UTC-4	1	ICCS/LFB	Sample	300.1 10122012	0.912 ppb	on
2012-10-15 11:14:12 UTC-4	2	ICCS/LFB	Sample	300.1 10122012	1.099 ppb	on

Control chart

3EOP 1102-12

Comment

ICCS/LFB concentration, ppb @ 0.5 ppb



Statistics

Mean value:	0.468 ppb	Absolute standard deviation:	0.015 ppb
Minimum:	0.457 ppb	Relative standard deviation:	3.145 %
Maximum:	0.478 ppb	Number of determinations:	2

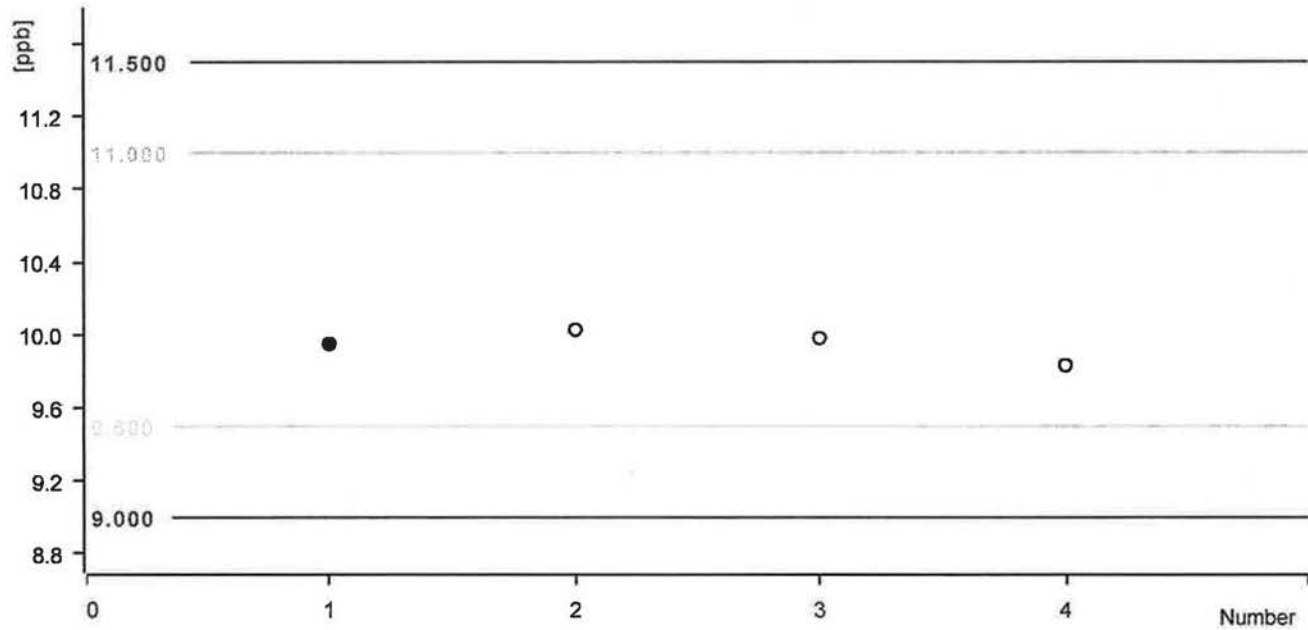
Date	Number	Ident	Sample type	Method	ICCS/LFB concentration, ppb	Statistics
2012-10-21 17:43:01 UTC-4	1	ICCS/LFB	Sample	10202012 300,1	0.478 ppb	on
2012-10-21 18:21:45 UTC-4	2	ICCS/LFB	Sample	10202012 300,1	0.457 ppb	on

Control chart

SEOP 11-02-12

Comment

Concentration DCA



Statistics

Mean value:	9.947 ppb	Absolute standard deviation:	0.083 ppb
Minimum:	9.832 ppb	Relative standard deviation:	0.835 %
Maximum:	10.027 ppb	Number of determinations:	4

Date	Number	Ident	Sample type	Method	Concentration DCA	Statistics
2012-10-15 09:35:35 UTC-4	1	ICCS/LFB	Sample	300.1 10122012	9.951 ppb	on
2012-10-15 11:14:12 UTC-4	2	ICCS/LFB	Sample	300.1 10122012	10.027 ppb	on
2012-10-21 17:43:01 UTC-4	3	ICCS/LFB	Sample	10202012 300.1	9.980 ppb	on
2012-10-21 18:21:45 UTC-4	4	ICCS/LFB	Sample	10202012 300.1	9.832 ppb	on