



Pall Corporation

Sample Analysis Report

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November, 2011

Analyst Initials: SEOP
Date: 12-13-11

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							
Saginaw Forest Cabin #4-11-21-11-08:55-1	nd	1.0					
D0							
5005 Jackson Rd-11-18-11-14:10-1	26	1.0					
Extraction Wells							
C3							
DOLPH-11-07-11-08:54-1	60	1.0					
TW-1-11-22-11-10:45-1	112	1.0					
TW-10-11-08-11-09:00-1	630	1.0					
TW-20-11-08-11-08:55-1	1079	1.0					
TW-3-11-22-11-10:47-1	nd	1.0					
TW-6-11-03-11-11:20-1	46	1.0					
D2							
LB-1-11-07-11-07:40-1	617	1.0					
LB-3-11-07-11-07:42-1	502	1.0					
TW-21-11-08-11-08:40-1	143	1.0					
TW-5-11-08-11-08:45-1	796	1.0					
TW-9-11-08-11-09:05-1	811	1.0					
E							

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-11-11-08-11-08:46-1	196	1.0					
TW-12-11-22-11-10:30-1	26	1.0					
TW-18-11-07-11-08:56-1	331	1.0					
TW-19-11-14-11-15:10-1	1172	1.0					
TW-19-11-22-11-07:40-1	974	1.0					
Marshy							
PW-1-11-07-11-08:58-1	874	1.0					
Not Applicable							
SW-COMB-11-07-11-08:52-1	453	1.0					
SW							
TW-22-11-08-11-09:27-1	644	1.0					
TW-8-11-08-11-09:25-1	423	1.0					
Monitoring Wells							
C3							
MW-125-11-21-11-15:20-1	283	1.0					
MW-127s-11-21-11-12:07-1	nd	1.0					
MW-128s-11-21-11-10:50-1	nd	1.0					
MW-28-11-10-11-09:30-1	nd	1.0					
MW-2d-11-03-11-10:05-1	26	1.0					
MW-37-11-21-11-14:25-1	209	1.0					
D0							
A2 Cleaning Supply-11-11-11-14:30-1	52	1.0					
MW-41d-11-03-11-09:30-1	32	1.0					
MW-41s-11-03-11-09:35-1	19	1.0					
D2							

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
175 Jackson Plaza-11-03-11-12:30-1	1162	1.0					
2652 Dexter Rd-11-08-11-10:45-1	nd	1.0					
2819 Dexter Rd-11-17-11-11:30-1	726	1.0					
373 Pinewood Shallow-11-16-11-10:30-1	565	1.0					
430 Barber West-11-08-11-12:30-1	112	1.0					
456 Clarendon-11-08-11-14:00-1	900	1.0					
465 Dupont-11-16-11-14:35-1	1362	1.0					
593 Allison-11-16-11-13:50-1	264	1.0					
MW-118-11-03-11-14:35-1	103	1.0					
MW-122s-11-17-11-14:35-1	56	1.0					
MW-123s-11-11-11-11:50-1	nd	1.0					
MW-124s-11-02-11-11:50-1	nd	1.0					
MW-126s-11-02-11-09:50-1	nd	1.0					
MW-130i-11-01-11-13:10-1	nd	1.0					
MW-130s-11-01-11-11:35-1	nd	1.0					
MW-400 Clarendon-11-15-11-10:55-1	nd	1.0					
MW-4d-11-03-11-13:40-1	915	1.0					
MW-54d-11-01-11-14:10-1	47	1.0					
MW-54s-11-01-11-13:25-1	nd	1.0					
MW-55-11-15-11-14:35-1	21	1.0					
MW-56s-11-10-11-12:40-1	70	1.0					
MW-62i-11-10-11-13:45-1	nd	1.0					
MW-62s-11-10-11-13:20-1	nd	1.0					
MW-63i-11-10-11-10:10-1	nd	1.0					
MW-63s-11-10-11-11:05-1	nd	1.0					
MW-77-11-08-11-12:35-1	1329	1.0					
MW-BE-1d-11-04-11-10:45-1	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
MW-BE-1s-11-04-11-10:00-1	92	1.0					
MW-KZ-1-11-15-11-13:45-1	nd	1.0					
E							
373 Pinewood Deep-11-16-11-11:35-1	nd	1.0					
IW-2-11-04-11-12:00-1	351	1.0					
MW-100-11-04-11-13:00-1	863	1.0					
MW-103d-11-02-11-14:20-1	15	1.0					
MW-103s-11-02-11-13:25-1	39	1.0					
MW-106d-11-11-11-10:30-1	nd	1.0					
MW-106s-11-11-11-11:00-1	226	1.0					
MW-115-11-09-11-10:55-1	672	1.0					
MW-122d-11-17-11-13:55-1	nd	1.0					
MW-123d-11-11-11-12:50-1	nd	1.0					
MW-124d-11-02-11-12:35-1	nd	1.0					
MW-126d-11-02-11-10:45-1	nd	1.0					
MW-127d-11-21-11-12:55-1	nd	1.0					
MW-128d-11-21-11-11:40-1	nd	1.0					
MW-130d-11-01-11-12:45-1	nd	1.0					
MW-56d-11-10-11-12:15-1	nd	1.0					
MW-62d-11-10-11-14:35-1	nd	1.0					
MW-63d-11-10-11-10:55-1	nd	1.0					
MW-71-11-15-11-10:15-1	1586	1.0					
MW-79s-11-09-11-11:45-1	454	1.0					
MW-85-11-09-11-14:45-1	1967	1.0					
MW-87d-11-09-11-12:30-1	635	1.0					
MW-87s-11-09-11-12:45-1	1505	1.0					
MW-88-11-09-11-13:55-1	263	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-91-11-16-11-12:40-1	73	1.0					
MW-98d-11-17-11-10:30-1	11	1.0					
MW-98s-11-17-11-09:45-1	nd	1.0					
Saginaw Forest Cabin #1-11-21-11-09:50-1	22	1.0					
Saginaw Forest Cabin #2-11-21-11-09:00-1	1	1.0					
TW-15-11-14-11-14:40-1	190	1.0					
SW							
MW-58d-11-21-11-13:40-1	15	1.0					
MW-58s-11-21-11-14:00-1	176	1.0					
MW-78-11-21-11-15:00-1	26	1.0					
Surface Water							
Not Applicable							
HC/HR-11-01-11-09:30-1			nd	2.0			
HC/HR-11-02-11-08:15-1			nd	2.0			
HC/HR-11-03-11-08:15-1			nd	2.0			
HC/HR-11-04-11-09:20-1			nd	2.0			
HC/HR-11-07-11-08:00-1			nd	2.0			
HC/HR-11-08-11-08:10-1			nd	2.0			
HC/HR-11-09-11-07:50-1			nd	2.0			
HC/HR-11-10-11-08:40-1			nd	2.0			
HC/HR-11-11-11-08:55-1			nd	2.0			
HC/HR-11-14-11-07:50-1			nd	2.0			
HC/HR-11-15-11-08:30-1			nd	2.0			
HC/HR-11-16-11-08:25-1			nd	2.0			
HC/HR-11-17-11-08:10-1			nd	2.0			
HC/HR-11-18-11-08:20-1			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-11-21-11-07:44-1			nd	2.0			
HC/HR-11-22-11-08:15-1			nd	2.0			
HC/HR-11-23-11-08:10-1			nd	2.0			
HC/HR-11-28-11-08:15-1			nd	2.0			
HC/HR-11-29-11-08:40-1			nd	2.0			
HC/HR-11-30-11-09:20-1			nd	2.0			
Treatment System							
OUTFALL-11-01-11-4	3	1.0					
OUTFALL-11-01-11-1			8	5.0			
OUTFALL-11-02-11-2	4	1.0					
OUTFALL-11-02-11-1			8	5.0			
OUTFALL-11-03-11-2	4	1.0					
OUTFALL-11-03-11-1			8	5			
OUTFALL-11-06-11-2	4	1.0					
OUTFALL-11-06-11-1			8	5.0			
OUTFALL-11-07-11-2	3	1.0					
OUTFALL-11-07-11-1			8	5			
OUTFALL-11-08-11-2	4	1.0					
OUTFALL-11-08-11-1			7	5.0			
OUTFALL-11-09-11-2	4	1.0					
OUTFALL-11-09-11-1			7	5.0			
OUTFALL-11-10-11-2	6	1.0					
OUTFALL-11-10-11-1			5	5.0			
OUTFALL-11-13-11-2	7	1.0					
OUTFALL-11-13-11-1			5	5.0			
OUTFALL-11-14-11-2	8	1.0					
OUTFALL-11-14-11-1			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-11-15-11-2	8	1.0					
OUTFALL-11-15-11-1			nd	5.0			
OUTFALL-11-16-11-2	7	1.0					
OUTFALL-11-16-11-1			nd	0.5			
OUTFALL-11-17-11-1	6	1.0					
OUTFALL-11-17-11-4			6	5.0			
OUTFALL-11-20-11-1	6	1.0					
OUTFALL-11-20-11-4			5	5.0			
OUTFALL-11-21-11-1	6	1.0					
OUTFALL-11-21-11-4			6	5.0			
OUTFALL-11-22-11-1	6	1.0					
OUTFALL-11-22-11-4			6	5.0			
OUTFALL-11-23-11-1	6	1.0					
OUTFALL-11-23-11-4			6	5.0			
OUTFALL-11-27-11-1	5	1.0					
OUTFALL-11-27-11-4			nd	5.0			
OUTFALL-11-28-11-01	6	1.0					
OUTFALL-11-28-11-04			nd	5.0			
OUTFALL-11-29-11-1	6	1.0					
OUTFALL-11-29-11-4			nd	5.0			
OUTFALL-11-30-11-1	6	1.0					
OUTFALL-11-30-11-4			6	5.0			
Red Pond-11-07-11-08:50-1	490	1.0					
Red Pond-11-14-11-08:20-1	472	1.0					
Red Pond-11-21-11-08:30-1	542	1.0					
Red Pond-11-28-11-09:30-1	470	1.0					

Control Chart for 11/2011 CVS

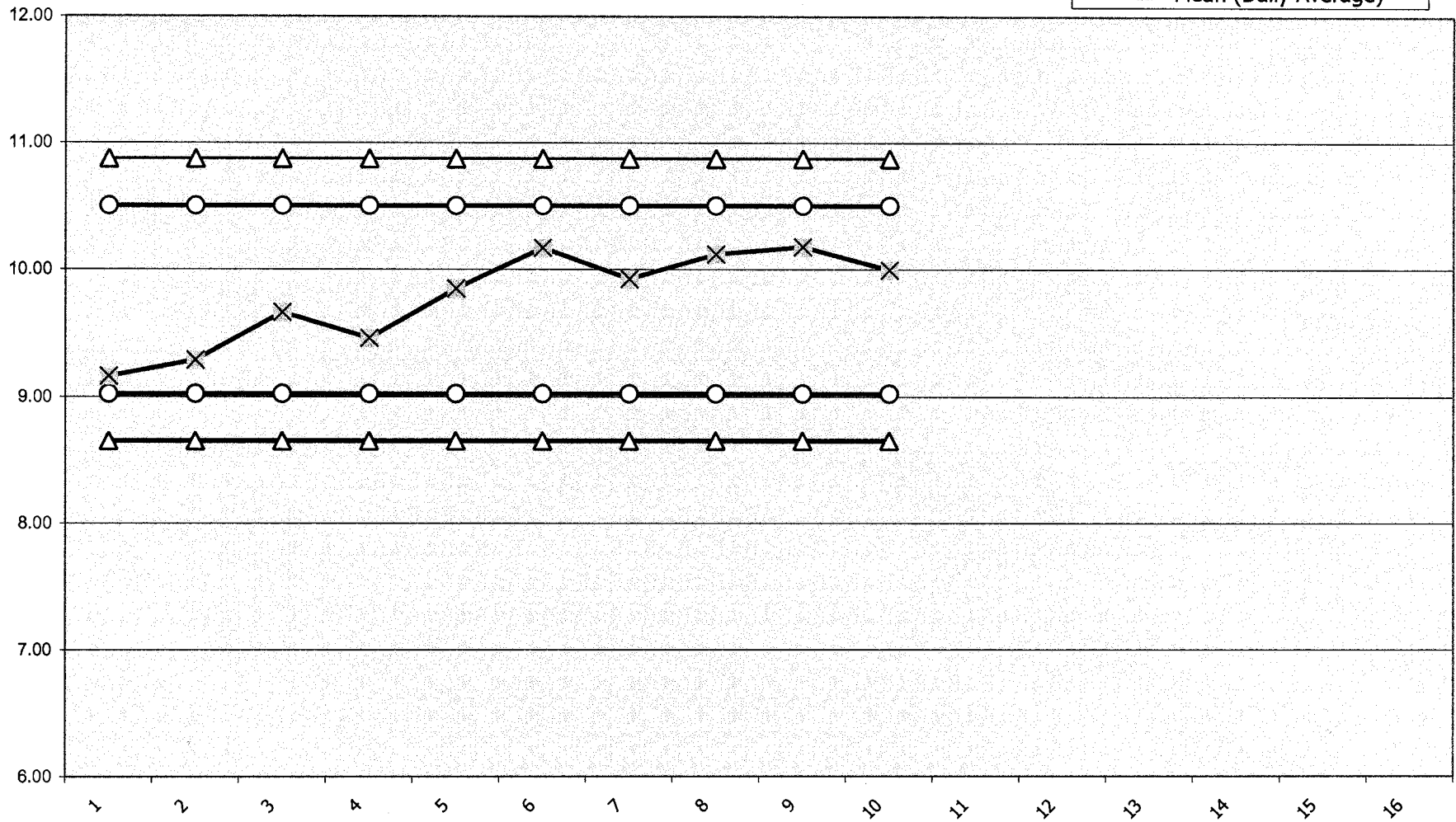
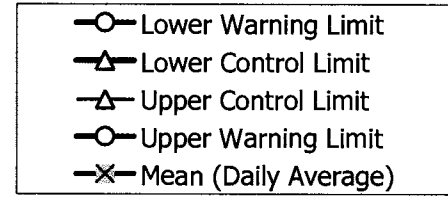
GC/MS Data: #2
Report Date: 12/13/2011
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 11/1/2011
End date: 11/30/2011
Desired level: 100%

Notes: Data from Instrument #2 for November

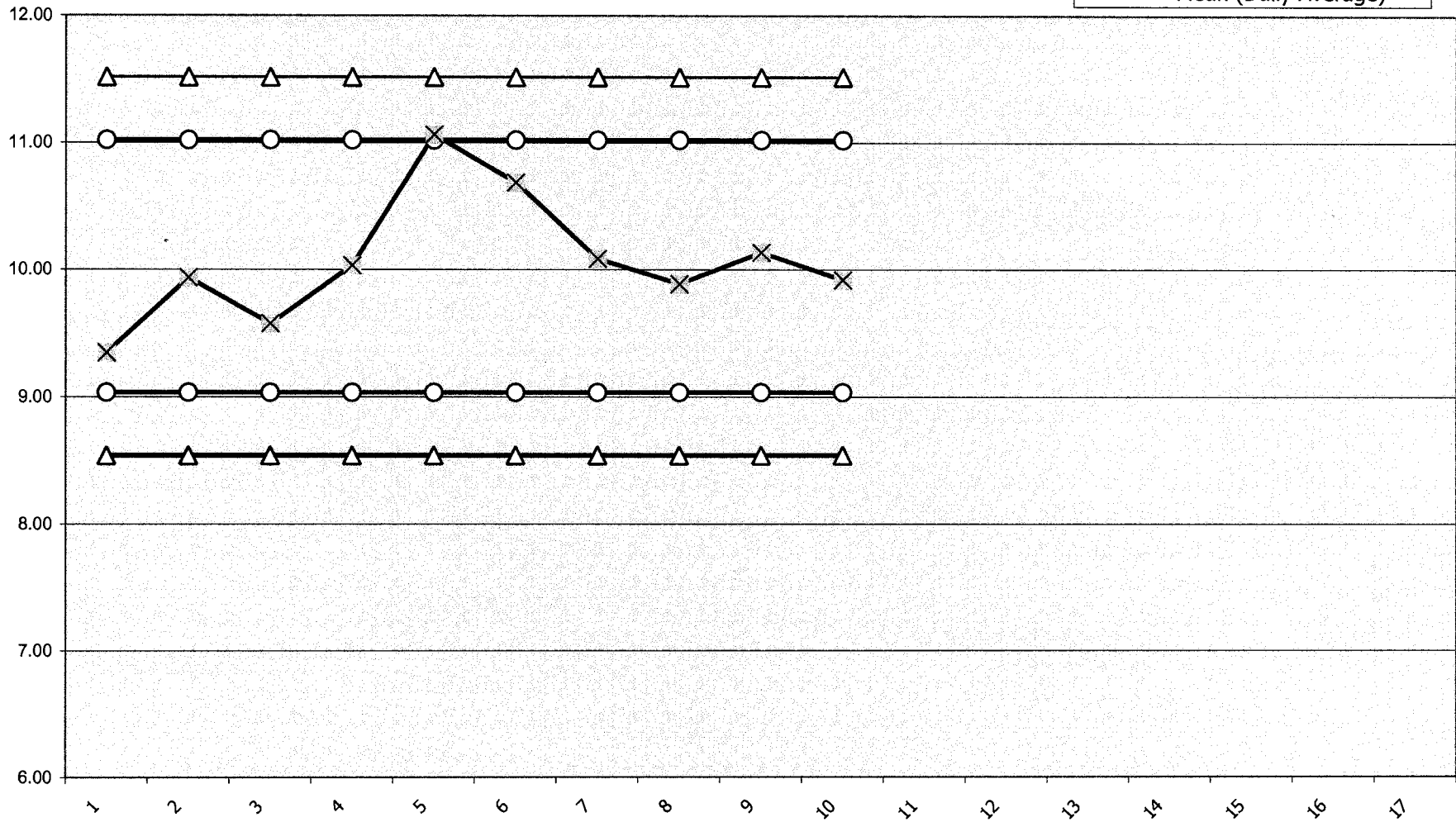
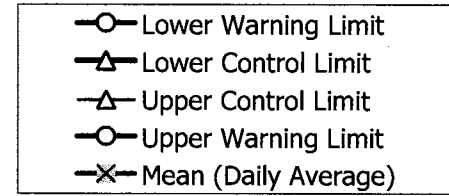
Date	CVS Values							Mean (Daily Average)	Sample Mean (All Individual Data)	Daily Standard Deviation	Daily Average Sample Standard Deviation	Lower Control Limit	Upper Control Limit	Lower Warning Limit	Upper Warning Limit
	CVS 1	CVS 2	CVS 3	CVS 4	CVS 5	CVS 6	CVS 7								
11/1/2011	9.70	8.63						9.17	9.76	0.76	0.37	8.65	10.88	9.02	10.51
11/2/2011	9.29							9.29	9.76	na	0.37	8.65	10.88	9.02	10.51
11/10/2011	10.02	9.31						9.67	9.76	0.50	0.37	8.65	10.88	9.02	10.51
11/11/2011	9.93	8.99						9.46	9.76	0.66	0.37	8.65	10.88	9.02	10.51
11/16/2011	9.71	9.99						9.85	9.76	0.20	0.37	8.65	10.88	9.02	10.51
11/17/2011	10.17							10.17	9.76	na	0.37	8.65	10.88	9.02	10.51
11/18/2011	10.25	9.60						9.93	9.76	0.46	0.37	8.65	10.88	9.02	10.51
11/22/2011	9.90	10.34						10.12	9.76	0.31	0.37	8.65	10.88	9.02	10.51
11/29/2011	10.18							10.18	9.76	na	0.37	8.65	10.88	9.02	10.51
11/30/2011	9.96	10.03						10.00	9.76	0.05	0.37	8.65	10.88	9.02	10.51

Susan E.O. Peters 12-13-11

11/2011 CVS with Control Limits



11/2011 LFB with Control Limits



Control Chart for 11/2011 MS/MSD %Recoveries

GC/MS Data: #2
Report Date: 12/13/2011
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 11/1/2011
End date: 11/30/2011
Desired level: 100%

Notes: Data from Instrument #2 for November

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	RPD 1	RPD 2									
11/1/2011	89	92	94	92	3.20	0.96	91.75	101.80	2.06	7.27	79.99	123.61	87.26	116.34	4.16
11/10/2011	94	103	108	109	6.10	1.20	103.50	101.80	6.86	7.27	79.99	123.61	87.26	116.34	4.16
11/11/2011	106	107	93	100	0.40	5.70	101.50	101.80	6.45	7.27	79.99	123.61	87.26	116.34	4.16
11/16/2011	108	105			1.80		106.50	101.80	2.12	7.27	79.99	123.61	87.26	116.34	4.16
11/17/2011	78	102			16.50		90.00	101.80	16.97	7.27	79.99	123.61	87.26	116.34	4.16
11/18/2011	101	118	107	100	8.90	4.00	106.50	101.80	8.27	7.27	79.99	123.61	87.26	116.34	4.16
11/22/2011	113	115	97	112	1.30	9.90	109.25	101.80	8.26	7.27	79.99	123.61	87.26	116.34	4.16
11/29/2011	92	95			1.90		93.50	101.80	2.12	7.27	79.99	123.61	87.26	116.34	4.16
11/30/2011	115	105	101	103	0.45	0.16	106.00	101.80	6.22	7.27	79.99	123.61	87.26	116.34	4.16

Susan E.O. Peters (2-13-1)

11/2011 MS/MSD with Control Limits

- Lower Warning Limit
- △ Lower Control Limit
- △ Upper Control Limit
- Upper Warning Limit
- × Mean (Daily Average)

