



Pall Corporation

Sample Analysis Report

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September, 2011

Analyst Initials: SEOP
Date: 10-17-11

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							
D0							
110 Parkland Plaza-09-17-11-14:00-1	3	1.0					
4141 Jackson Rd-09-18-11-08:55-1	7	1.0					
5005 Jackson Rd-09-12-11-14:20-1	22	1.0					
D2							
170 April-09-19-11-15:45-1	13	1.0					
3245 Kingwood-09-26-11-12:05-1	nd	1.0					
465 Dupont-09-26-11-16:10-1	1322	1.0					
476 Barber-09-26-11-13:00-1	nd	1.0					
544 Allison-09-26-11-10:20-1	3	1.0					
E							
Saginaw Forest Cabin #1-09-27-11-10:05-1	21	1.0					
Saginaw Forest Cabin #2-09-27-11-09:05-1	1	1.0					
Not Determined							
2575 Valley-09-28-11-14:30-1	51	1.0					
441 Parkwood-09-26-11-11:10-1	13	1.0					
Extraction Wells							
C3							
DOLPH-09-12-11-08:04-1	54	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-10-09-12-11-11:35-1	561	1.0					
TW-20-09-12-11-11:30-1	1019	1.0					
TW-6-09-29-11-11:45-1	52	1.0					
D2							
LB-1-09-12-11-09:00-1	541	1.0					
LB-3-09-12-11-09:02-1	471	1.0					
MW-11d-09-18-11-12:10-1	99	1.0					
TW-21-09-12-11-11:50-1	140	1.0					
TW-5-09-12-11-12:00-1	730	1.0					
TW-9-09-12-11-11:40-1	792	1.0					
E							
MW-64-09-25-11-09:00-1	51	1.0					
TW-11-09-12-11-12:02-1	187	1.0					
TW-18-09-12-11-08:06-1	300	1.0					
Marshy							
PW-1-09-12-11-08:08-1	749	1.0					
Not Applicable							
SW-COMB-09-12-11-08:02-1	376	1.0					
SW							
TW-22-09-12-11-12:20-1	600	1.0					
TW-8-09-12-11-12:20-1	432	1.0					
Monitoring Wells							
C2							
MW-25s-09-27-11-14:40-1	602	1.0					
C3							

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-1-09-16-11-14:25-1	1827	1.0					
MW-105s-09-20-11-08:25-1	1097	1.0					
MW-11i-09-18-11-11:45-1	7	1.0					
MW-125-09-27-11-10:45-1	253	1.0					
MW-127s-09-27-11-13:00-1	nd	1.0					
MW-16-09-21-11-12:35-1	nd	1.0					
MW-18d-09-18-11-13:55-1	141	1.0					
MW-22-09-27-11-14:05-1	1829	1.0					
MW-25d-09-27-11-14:25-1	154	1.0					
MW-32-09-18-11-12:35-1	12	1.0					
MW-34s-09-18-11-11:25-1	nd	1.0					
MW-35-09-18-11-13:55-1	7	1.0					
MW-36-09-18-11-10:45-1	nd	1.0					
MW-37-09-18-11-14:15-1	184	1.0					
D0							
A2 Cleaning Supply-09-01-11-10:00-1	88	1.0					
MW-42d-09-21-11-16:34-1	nd	1.0					
MW-42s-09-21-11-16:50-1	nd	1.0					
MW-59s-09-19-11-09:20-1	nd	1.0					
MW-93-09-17-11-14:30-1	5	1.0					
D2							
430 Barber East-09-26-11-14:05-1	22	1.0					
430 Barber West-09-26-11-14:55-1	nd	1.0					
593 Allison-09-29-11-14:30-1	262	1.0					
MW-113-09-24-11-14:05-1	48	1.0					
MW-118-09-24-11-14:45-1	93	1.0					
MW-120s-09-23-11-09:45-1	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-121s-09-23-11-11:10-1	nd	1.0					
MW-122s-09-28-11-12:30-1	47	1.0					
MW-123s-09-25-11-12:10-1	nd	1.0					
MW-126s-09-19-11-10:35-1	nd	1.0					
MW-129i-09-21-11-15:10-1	nd	1.0					
MW-129s-09-21-11-14:40-1	nd	1.0					
MW-130i-09-25-11-13:55-1	nd	1.0					
MW-130s-09-25-11-13:25-1	nd	1.0					
MW-134i-09-20-11-15:15-1	nd	1.0					
MW-134s-09-20-11-15:35-1	7	1.0					
MW-34d-09-18-11-11:10-1	nd	1.0					
MW-38d-09-18-11-13:05-1	54	1.0					
MW-43-09-21-11-11:55-1	nd	1.0					
MW-4d-09-20-11-16:05-1	964	1.0					
MW-54d-09-28-11-13:15-1	53	1.0					
MW-77-09-26-11-15:30-1	1226	1.0					
MW-94s-09-20-11-08:50-1	960	1.0					
MW-KD-1d-09-24-11-12:35-1	100	1.0					
MW-KD-1s-09-24-11-12:10-1	34	1.0					
E							
MW-100-09-17-11-13:00-1	655	1.0					
MW-103d-09-23-11-15:10-1	15	1.0					
MW-103s-09-23-11-14:25-1	34	1.0					
MW-105d-09-20-11-08:15-1	471	1.0					
MW-106d-09-20-11-10:00-1	nd	1.0					
MW-106s-09-20-11-10:20-1	188	1.0					
MW-108d-09-21-11-10:10-1	2282	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-111-09-24-11-10:20-1	nd	1.0					
MW-112d-09-23-11-13:50-1	nd	1.0					
MW-112i-09-23-11-13:00-1	5	1.0					
MW-112s-09-23-11-12:20-1	nd	1.0					
MW-115-09-17-11-08:20-1	502	1.0					
MW-121d-09-23-11-11:40-1	nd	1.0					
MW-122d-09-28-11-11:50-1	nd	1.0					
MW-123d-09-25-11-12:55-1	nd	1.0					
MW-124d-09-24-11-09:50-1	nd	1.0					
MW-126d-09-19-11-11:25-1	nd	1.0					
MW-127d-09-27-11-12:45-1	nd	1.0					
MW-129d-09-21-11-15:55-1	nd	1.0					
MW-130d-09-25-11-14:40-1	nd	1.0					
MW-134d-09-20-11-14:40-1	4	1.0					
MW-30d-09-25-11-10:30-1	935	1.0					
MW-59d-09-19-11-10:00-1	nd	1.0					
MW-65i-09-24-11-08:15-1	1	1.0					
MW-65s-09-24-11-08:50-1	23	1.0					
MW-66-09-25-11-08:05-1	2	1.0					
MW-67-09-25-11-11:40-1	nd	1.0					
MW-68-09-18-11-10:00-1	nd	1.0					
MW-69-09-21-11-08:40-1	nd	1.0					
MW-70-09-21-11-13:50-1	nd	1.0					
MW-71-09-21-11-11:05-1	1266	1.0					
MW-79s-09-17-11-09:00-1	335	1.0					
MW-81-09-23-11-09:10-1	444	1.0					
MW-85-09-17-11-10:40-1	1904	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-87d-09-17-11-12:10-1	602	1.0					
MW-87s-09-17-11-11:35-1	1024	1.0					
MW-88-09-17-11-09:50-1	257	1.0					
MW-97d-09-24-11-11:35-1	nd	1.0					
MW-97s-09-24-11-10:55-1	nd	1.0					
SW							
MW-10d-09-18-11-14:45-1	548	1.0					
MW-52d-09-19-11-12:20-1	nd	1.0					
MW-52i-09-19-11-11:55-1	nd	1.0					
MW-57-09-27-11-13:45-1	nd	1.0					
MW-58d-09-26-11-09:10-1	13	1.0					
MW-8d-09-18-11-10:20-1	nd	1.0					
Surface Water							
Not Applicable							
HC/HR-09-01-11-08:00-1			nd	2.0			
HC/HR-09-02-11-08:15-1			nd	2			
HC/HR-09-06-11-09:42-9			nd	2			
HC/HR-09-07-11-09:20-1			nd	2			
HC/HR-09-08-11-08:20-1			nd	2			
HC/HR-09-09-11-09:44-1			nd	2			
HC/HR-09-12-11-08:35-1			nd	2			
HC/HR-09-13-11-08:25-1			nd	2			
HC/HR-09-14-11-08:30-1			nd	2			
HC/HR-09-16-11-08:45-1			nd	2			
HC/HR-09-19-11-07:50-1			nd	2			
HC/HR-09-20-11-09:40-1			nd	2			

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-09-21-11-09:50-1			nd	2			
HC/HR-09-22-11-07:45-1			nd	2			
HC/HR-09-23-11-09:00-1			nd	2			
HC/HR-09-26-11-09:05-1			nd	2.0			
HC/HR-09-27-11-08:30-1			nd	2			
HC/HR-09-28-11-09:20-1			nd	2			
HC/HR-09-29-11-08:30-1			nd	2			
HC/HR-09-30-11-09:30-1			nd	2			
Treatment System							
OUTFALL-09-01-11-09:40-1	4	1.0					
OUTFALL-09-01-11-09:40-9			5	5			
OUTFALL-09-04-11-11:35-1	4	1.0					
OUTFALL-09-04-11-1			5	5			
OUTFALL-09-05-11-11:35-1	4	1.0					
OUTFALL-09-05-11-1			5	5			
OUTFALL-09-06-11-08:55-1	4	1.0					
OUTFALL-09-06-11-1			5	5			
OUTFALL-09-07-11-09:25-2	5	1.0					
OUTFALL-09-07-11-09:25-1			5	5			
OUTFALL-09-08-11-08:10-1	4	1.0					
OUTFALL-09-08-11-1			5	5			
OUTFALL-09-11-11-09:00-1	4	1.0					
OUTFALL-09-11-11-09:00-9			5	5			
OUTFALL-09-12-11-09:05-1	4	1.0					
OUTFALL-09-12-11-09:05-9			5	5			
OUTFALL-09-13-11-1	4	1.0					
OUTFALL-09-13-11-09:05-1			5	5			

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-09-14-11-4			5	5			
OUTFALL-09-14-11-1	4	1.0					
OUTFALL-09-15-11-1	4	1.0					
OUTFALL-09-15-11-9			5	5			
OUTFALL-09-18-11-1	3	1.0					
OUTFALL-09-18-11-9			5	5			
OUTFALL-09-19-11-4	4	1.0					
OUTFALL-09-19-11-1			nd	5.0			
OUTFALL-09-20-11-9	3	1.0					
OUTFALL-09-20-11-1			nd	5			
OUTFALL-09-21-11-1	4	1.0					
OUTFALL-09-21-11-09			nd	5			
OUTFALL-09-22-11-1	3	1.0					
OUTFALL-09-22-11-04			nd	5			
OUTFALL-09-25-11-1	4	1.0					
OUTFALL-09-25-11-1			nd	5			
OUTFALL-09-26-11-1	4	1.0					
OUTFALL-09-26-11-9			nd	5			
OUTFALL-09-27-11-1	4	1.0					
OUTFALL-09-27-11-9			nd	5			
OUTFALL-09-28-11-2	4	1.0					
OUTFALL-09-28-11-9			nd	5			
OUTFALL-09-29-11-1	4	1.0					
OUTFALL-09-29-11-9			nd	5			
Red Pond-09-06-11-07:55-1	443	1.0					
Red Pond-09-12-11-08:00-1	493	1.0					
Red Pond-09-19-11-08:20-1	398	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
Red Pond-09-26-11-08:30-1	228	1.0					

Control Chart for 09/2011 CVS

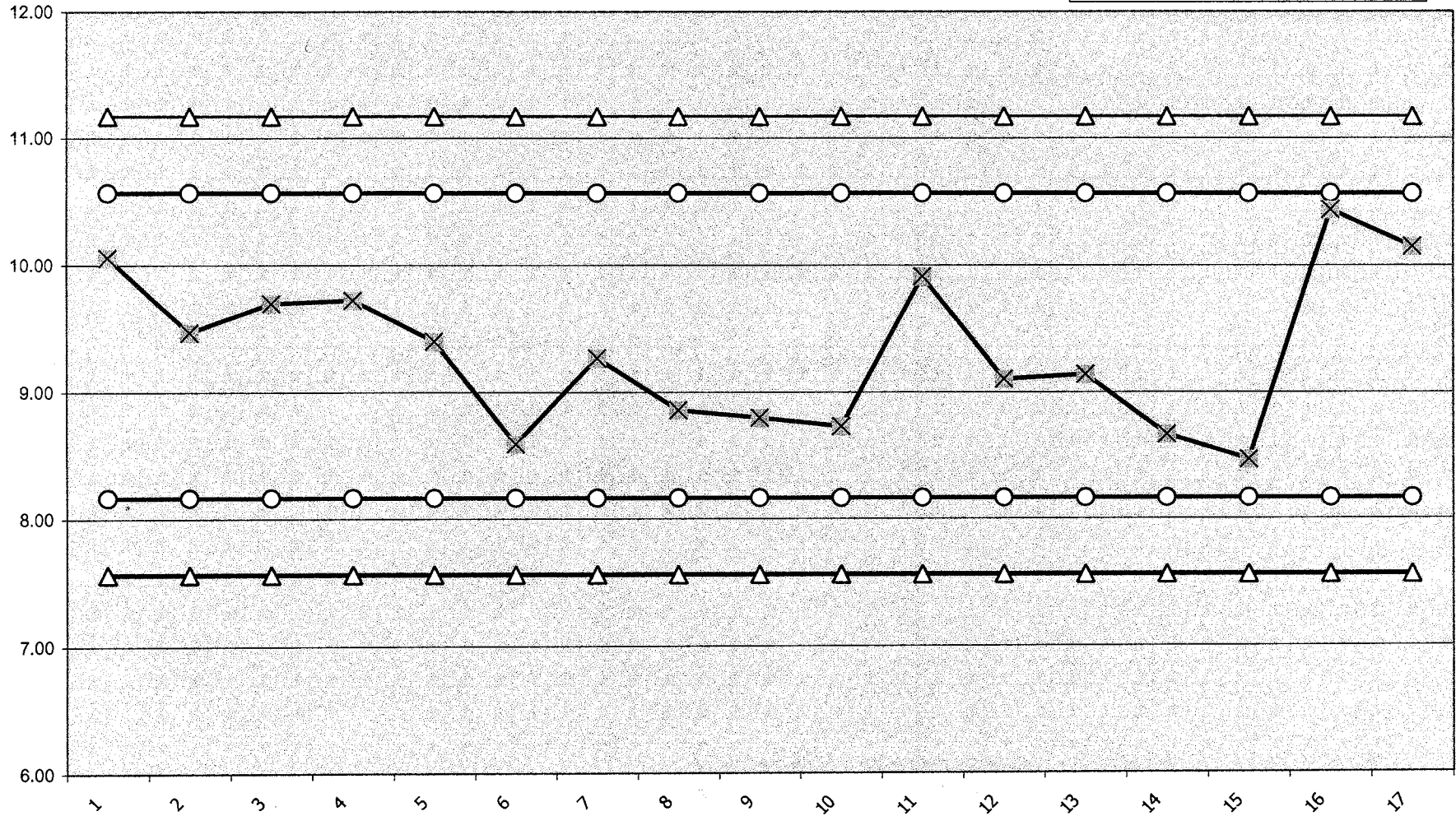
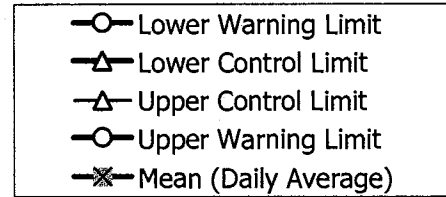
GC/MS Data: #1 and #2
Report Date: 9/30/2011
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 9/1/2011
End date: 9/30/2011
Desired level: 100%

Notes: Data from Instrument #1 and #2 for September

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								
CVS #2: 9/12/2011	10.06							10.06	9.37	na	0.60	7.56	11.17	8.16	10.57
9/28/2011	8.82	9.89	9.70					9.47	9.37	0.57	0.60	7.56	11.17	8.16	10.57
9/29/2011	9.70							9.70	9.37	na	0.60	7.56	11.17	8.16	10.57
9/30/2011	9.80	9.65						9.73	9.37	0.11	0.60	7.56	11.17	8.16	10.57
CVS #1: 9/1/2011	9.40							9.40	9.37	na	0.60	7.56	11.17	8.16	10.57
9/2/2011	8.59							8.59	9.37	na	0.60	7.56	11.17	8.16	10.57
9/6/2011	8.35	9.86	9.60					9.27	9.37	0.81	0.60	7.56	11.17	8.16	10.57
9/8/2011	8.86							8.86	9.37	na	0.60	7.56	11.17	8.16	10.57
9/9/2011	8.80							8.80	9.37	na	0.60	7.56	11.17	8.16	10.57
9/13/2011	8.73							8.73	9.37	na	0.60	7.56	11.17	8.16	10.57
9/16/2011	9.30	10.97	9.47					9.91	9.37	0.92	0.60	7.56	11.17	8.16	10.57
9/19/2011	8.48	9.06	9.77					9.10	9.37	0.65	0.60	7.56	11.17	8.16	10.57
9/21/2011	9.52	8.94	8.96					9.14	9.37	0.33	0.60	7.56	11.17	8.16	10.57
9/22/2011	8.67	8.66						8.67	9.37	0.01	0.60	7.56	11.17	8.16	10.57
9/26/2011	8.83	8.10						8.47	9.37	0.52	0.60	7.56	11.17	8.16	10.57
9/28/2011	10.43	10.45						10.44	9.37	0.01	0.60	7.56	11.17	8.16	10.57
9/30/2011	9.58	10.72						10.15	9.37	0.81	0.60	7.56	11.17	8.16	10.57

Susan E.O. Peters 10/17/11

09/2011 CVS with Control Limits



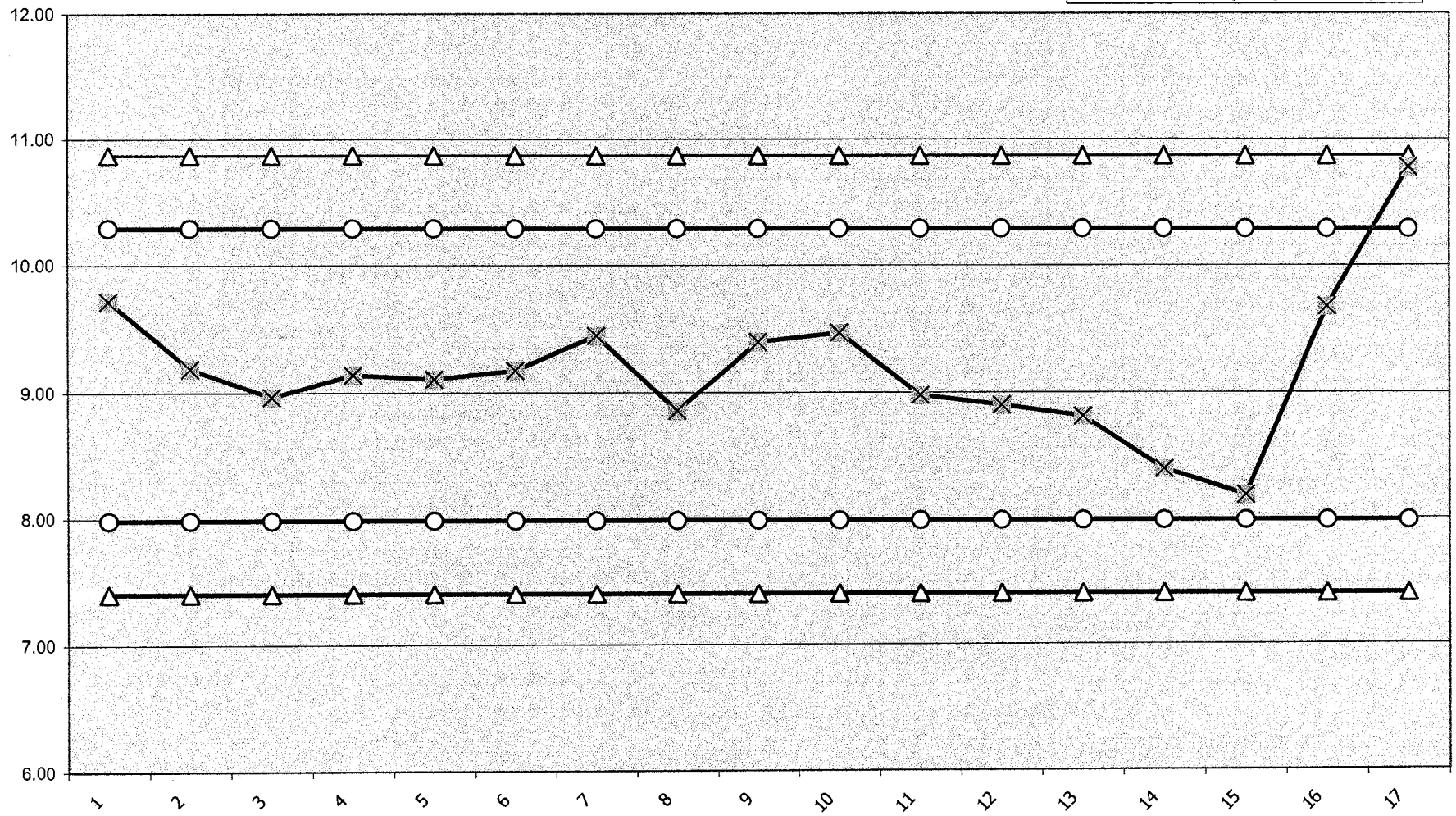
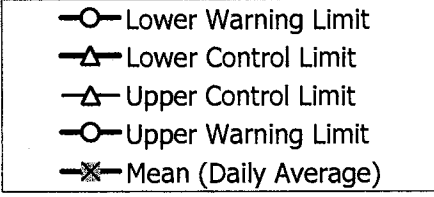
Control Chart for 09/2011 LFB

GC/MS Data: #1 and #2
Report Date: 9/30/2011
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 9/1/2011
End date: 9/30/2011
Desired level: 100%

Notes:

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								
LFB #2: 9/12/2011	8.98	9.10	10.00	10.04	10.48	9.71		9.72	9.14	0.58	0.58	7.40	10.87	7.98	10.29
9/28/2011	8.98	9.02	9.41	9.20	8.96	9.57	9.18	9.19	9.14	0.23	0.58	7.40	10.87	7.98	10.29
9/29/2011	8.47	9.19	9.24					8.97	9.14	0.43	0.58	7.40	10.87	7.98	10.29
9/30/2011	9.15	9.13						9.14	9.14	0.01	0.58	7.40	10.87	7.98	10.29
LFB #1: 9/1/2011	9.12	8.87	9.33					9.11	9.14	0.23	0.58	7.40	10.87	7.98	10.29
9/2/2011	8.48	9.87						9.18	9.14	0.98	0.58	7.40	10.87	7.98	10.29
9/6/2011	9.38	9.27	9.19	8.84	10.12	9.88		9.45	9.14	0.47	0.58	7.40	10.87	7.98	10.29
9/8/2011	9.05	8.66						8.86	9.14	0.28	0.58	7.40	10.87	7.98	10.29
9/9/2011	9.74	9.05						9.40	9.14	0.49	0.58	7.40	10.87	7.98	10.29
9/13/2011	8.72	10.06	9.62					9.47	9.14	0.68	0.58	7.40	10.87	7.98	10.29
9/16/2011	9.47	8.12	8.48	8.93	9.18	9.37	9.30	8.98	9.14	0.50	0.58	7.40	10.87	7.98	10.29
9/19/2011	8.56	8.91	9.36	8.51	9.15			8.90	9.14	0.37	0.58	7.40	10.87	7.98	10.29
9/21/2011	8.77	9.15	9.21	9.20	8.71	8.01	8.62	8.81	9.14	0.43	0.58	7.40	10.87	7.98	10.29
9/22/2011	8.94	8.40	8.39	8.05	8.15			8.39	9.14	0.34	0.58	7.40	10.87	7.98	10.29
9/26/2011	8.43	8.06	8.07	8.11	8.23			8.18	9.14	0.16	0.58	7.40	10.87	7.98	10.29
9/28/2011	10.13	9.34	9.84	9.68	9.91	9.09	9.74	9.68	9.14	0.35	0.58	7.40	10.87	7.98	10.29
9/30/2011	11.12	10.44						10.78	9.14	0.48	0.58	7.40	10.87	7.98	10.29

09/2011 LFB with Control Limits



SEOP 10/17/11

Control Chart for 09/2011 MS/MSD %Recoveries

GC/MS Data: #1 and #2
Report Date: 9/30/2011
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 9/1/2011
End date: 9/30/2011
Desired level: 100%

Notes: Data from Instrument #1 and #2 for September

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									
MS/D #2: 9/12/2011	98	97			0.21		97.50	94.28	0.71	4.54	80.65	107.90	85.19	103.36	1.59
9/28/2011	92	101			8.36		96.50	94.28	6.36	4.54	80.65	107.90	85.19	103.36	1.59
9/29/2011	87	99			1.82		93.00	94.28	8.49	4.54	80.65	107.90	85.19	103.36	1.59
MS/D #1: 9/1/2011	90	98			1.07		94.00	94.28	5.66	4.54	80.65	107.90	85.19	103.36	1.59
9/2/2011	90	94			0.51		92.00	94.28	2.83	4.54	80.65	107.90	85.19	103.36	1.59
9/6/2011	95	98	90	94	0.39	0.56	94.25	94.28	3.30	4.54	80.65	107.90	85.19	103.36	1.59
9/8/2011	92	97	87	99	0.67	1.80	93.75	94.28	5.38	4.54	80.65	107.90	85.19	103.36	1.59
9/9/2011	93	100			0.97		96.50	94.28	4.95	4.54	80.65	107.90	85.19	103.36	1.59
9/13/2011	90	96			0.80		93.00	94.28	4.24	4.54	80.65	107.90	85.19	103.36	1.59
9/16/2011	85	96	96	100	1.78	0.68	94.25	94.28	6.45	4.54	80.65	107.90	85.19	103.36	1.59
9/19/2011	86	92			0.91		89.00	94.28	4.24	4.54	80.65	107.90	85.19	103.36	1.59
9/21/2011	95	99	95	98	0.50	0.37	96.75	94.28	2.06	4.54	80.65	107.90	85.19	103.36	1.59
9/22/2011	83	89			1.03		86.00	94.28	4.24	4.54	80.65	107.90	85.19	103.36	1.59
9/26/2011	85	88			0.40		86.50	94.28	2.12	4.54	80.65	107.90	85.19	103.36	1.59
9/28/2011	94	106			7.69		100.00	94.28	8.49	4.54	80.65	107.90	85.19	103.36	1.59
9/30/2011	99	108			1.205		103.50	94.28	6.36	4.54	80.65	107.90	85.19	103.36	1.59

SEP 10/17/11

09/2011 MS/MSD with Control Limits

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

