TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE	DATE	TRANSMITTAL NO.
	November 17, 2014	008.14-G130085B

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO:	FROM:	CONTRACT NO.	CHECK ONE:
MDEQ Kristi Zakrzewski	Fishbeck, Thompson, Carr & Huber Cathy Jaeger	Y11042	[X] This is a new transmittal [ ] This is a resubmittal of Transmittal

SPECIFICATION SEC. NO. C *(Cover only one section with each transmittal)*	PROJECT TITLE AND LOCATION
	OTT/STORY/CORDOVA LONG TERM O&M OF GWTF, MUSKEGON, MICHIGAN

US EPA RECORDS CENTER REGION 5
491125

ITEM NO.	DESCRIPTION OF ITEM SUBMITTED *(Type size, model number/etc.)*	MFG OR CONTR. CAT.,CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		DEQ FILING CODE		
				SPEC. PARA. NO.	DRAWING SHEET NO.			
(a)	(b)	(c)	(d)	(e)	(f)	(g)		
8	Operable Units 1 and 2 Quarterly Groundwater Monitoring Summary Reports	Reports	3	1.8				
	from theSeptember 2014 Event							
	cc: Jobsite File							

REMARKS:
Includes a continuation of Black and Veatch quarterly tables and graphs.

Distribution By FTC&H
1 - B. Bouwhuis 1 - J. Fagiolo, 1 - K. Zakrzewski

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

Cathy Jaeger Laboratory Manager

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED *(List by Item No.)*	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Quarter 75
September 2014

Ott/Story/Cordova
Operational Units 1 and 2
Groundwater Summary Report
Quarter 75
(September 2014)

November 2014

Prepared by
Fishbeck, Thompson, Carr, and Huber

For
Michigan Department of Environmental Quality

Contents

1. Total Concentration Tables

   This section is a continuation of the Black and Veatch Tables 5.1 through 5.6. The tables contain the total organic, benzene, and n,n-dimethylbenzeneamine concentrations for all monitoring and extraction wells for each quarterly event from 1996 to present.

2. Total Organic Compound Concentrations Statistical Values Table

   Black and Veatch table 5.7 provides the maximum, minimum, average, and median concentrations of total organic compounds reported for all monitoring and extraction wells combined from 1996 to present.

3. Appendix A, Static Water Level Measurements and Summary of Extraction Well Flow Rates for October, 2014.

4. Appendix B, Detection Frequency Report for the Seventy-fifth Quarter of Groundwater Monitoring.

5. Appendix C, Summary of Compounds Detected in Groundwater Samples for Seventy-third Quarter of Groundwater Monitoring and Comparison to the Michigan Residential Groundwater Drinking Values.

6. Appendix D, Trend Graphs for Total Organic Concentrations.

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-7s	NS	NS	NS	NS	NS	NS	NS	NS	NS	110	43	39	NS	64	30	15
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	5	ND	ND	NS	14	5	ND
W-15s	NS	NS	NS	NS	NS	NS	NS	NS	NS	14	18	22	NS	13	16	14
W-16s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	8	NS	ND	8	ND
W-17s	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,842	7,253	8,989	NS	4,908	5,947	6,385
W-18s	NS	NS	NS	NS	NS	NS	NS	NS	NS	146,170	100,014	220,676	NS	98,951	117,890	241,372
W-26s	NS	NS	NS	NS	NS	NS	NS	NS	NS	2	10	19	NS	16	22	23
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-101s	202,802	245,582	183,135	254,675	308,560	237,579	100,449	359,176	271,056	360,212	349,924	328,039	356,656	316,998	358,440	255,790
W-102s	949	847	1,138	2,154	2,091	1,210	1,858	2,810	2,320	2,114	2,071	2,039	1,760	1,867	1,866	1,958
W-103s	633	710	502	395	1,008	878	457	469	689	823	725	728	667	700	729	844
W-104s	70	51	5	19	13	10	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-105s	17	432	21	22	6	8	ND	ND	13	NS	NS	NS	ND	NS	NS	NS
W-106s	68	28	12	11	18	14	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-107s	12	26	76	24	5	6	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-110s	13	ND	1	3	5	4	ND	2	2	NS	NS	NS	13	NS	NS	NS
W-114s	10	60	88	4	6	7	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-116s	9	35	ND	5	5	10	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-117s	15	48	ND	3	6	8	ND	ND	NS	NS	NS	NS	ND	NS	NS	NS
W-120s	44	27	ND	2	9	4	ND	ND	5	NS	NS	NS	ND	NS	NS	NS
W-121s	26	19	ND	ND	8	8	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-122s	20	20	ND	10	21	8	ND	5	ND	NS	NS	NS	ND	NS	NS	NS
W-123s	61	18	ND	7	11	17	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124s	20,521	21,819	26,468	18,709	13,733	2,691	26,423	2,365	2,705	3,124	1,327	1,377	1,242	1,782	1,211	680
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	86,965	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6,421	NS
MW-12s	16	180	13	10	35	24	ND	ND	ND	ND	ND	ND	ND	217	51	241
MW-16s	624	393	70	99	47	6	1	16	5	NS	NS	NS	ND	NS	NS	NS
MW-23s	ND	137	50	35	332	17	20	5	4	28	13	6	2	3	3	4
MW-33s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	74	36	ND	33	7	12	9	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	5	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	9	4	9	NS	17	9	ND	NS	21	2	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS	NS
NS	29	11	13	NS	12	5	9	NS	10	7	NS	15	NS	23	NS	43
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	2,825	2,736	2,180	NS	1,978	2,248	2,415	NS	1,571	3,156	NS	1,921	NS	1,905	NS	950
NS	59,437	51,867	24,586	NS	28,577	26,025	64,291	NS	28,561	3,264	NS	147,718	NS	142,409	NS	60,871
NS	21	21	23	NS	12	14	13	NS	8	12	NS	NS	NS	17	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
294,102	274,708	232,257	280,761	243,590	251,045	313,860	372,052	440,536	351,955	174,684	NS	294,048	NS	775,104	NS	390,591
1,470	1,287	1,522	1,293	1,208	930	1,319	1,137	1,117	1,010	1,396	NS	1,577	NS	1,308	NS	1,020
671	595	736	687	506	478	574	580	467	430	371	NS	404	NS	380	NS	440
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	1	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
5	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	1	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	2	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
556	1,377	850	803	1,129	2,439	1,058	1,110	1,251	1,305	995	NS	1,030	NS	924	NS	940
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
67	8	53	19	ND	ND	30	15	ND	ND	18	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
167	92	41	81	41	29	23	46	44	20	11	NS	18	NS	15	NS	12
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS

Table 5-1

Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	NS	ND	NS	NS	NS	10	NS	NS	NS	8	NS	NS	NS	2	NS	NS
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	NS	24	NS	28	NS	18	NS	16	NS	10	NS	15	NS	11	NS	40
W-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-17s	NS	811	NS	886	NS	1,052	NS	548	NS	757	NS	1,032	NS	1,098	NS	1,226
W-18s	NS	67,055	NS	87,244	NS	19,748	NS	123,611	NS	163,993	NS	142,916	NS	224,654	NS	143,860
W-26s	NS	6	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	NS	255,222	NS	183,763	NS	146,031	NS	127,193	NS	240,253	NS	341,019	NS	237,155	NS	221,522
W-102s	NS	566	NS	714	NS	672	NS	796	NS	676	NS	219	NS	246	NS	321
W-103s	NS	405	NS	285	NS	329	NS	295	NS	240	NS	275	NS	220	NS	240
W-104s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-106s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-107s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-110s	NS	6	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-114s	NS	1	NS	NS	NS	1	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-116s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-117s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-120s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-121s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-122s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	7	NS	NS
W-123s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-124s	NS	1,086	NS	1,220	NS	942	NS	759	NS	677	NS	499	NS	448	NS	573
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12s	NS	ND	NS	ND	NS	ND	NS	ND	NS	6	NS	ND	NS	ND	NS	ND
MW-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-23s	NS	14	NS	12	NS	19	NS	9	NS	ND	NS	2	NS	2	NS	3
MW-33s	NS	12	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	NS	10	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38s	NS	10	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	2.2	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	ND	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	26	NS	11	NS	9.8	NS	30	NS	14	NS	12	NS	14	NS	27	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS
NS	898	NS	770	NS	650	NS	866	NS	626	NS	984	NS	740	NS	496	NS
NS	304,373	NS	111,716	NS	133,057	285,458	87,429	40,606	27,498	NS	494,566	NS	131,823	NS	142,938	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	183,908	NS	111,806	NS	106,716	87,926	83,279	86,229	56,635	NS	82,201	NS	45,551	NS	38,253	NS
NS	397	NS	362	NS	330	407	349	401	433	NS	456	NS	477	NS	420	NS
NS	216	NS	173	NS	166	NS	165	NS	176	NS	165	NS	151	NS	136	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	15
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	38
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	38
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	5.2	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	453	NS	463	NS	457	392	378	387	343	NS	363	NS	346	NS	324	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	ND
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	1.9	NS	1.0	NS	ND	NS	ND	NS	ND	NS	3.3	NS	6.4	NS	31	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	6.7
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	6.6

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Upper Unconfined System									
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	10	NS	NS	NS	12	NS	NS	NS	17
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	40	NS	47	NS	32	NS	14	NS	7.6
W-16s	ND	NS	NS	NS	5.6	NS	NS	NS	ND
W-17s	644	NS	496	NS	599	NS	326	NS	559
W-18s	142,292	NS	111,766	NS	131,891	NS	23,947	NS	3,806
W-26s	ND	NS	NS	NS	ND	NS	NS	NS	1.1
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	37,842	NS	32,343	NS	29,764	NS	24,934	NS	26,894
W-102s	605	NS	425	NS	470	NS	337	NS	425
W-103s	144	NS	128	NS	115	NS	83	NS	118
W-104s	5.2	NS	16	NS	5.4	NS	NS	NS	ND
W-105s	11	12	NS	NS	6.6	NS	NS	NS	5.9
W-106s	16	NS	NS	NS	ND	NS	NS	NS	ND
W-107s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-110s	7.2	NS	NS	NS	7.3	NS	NS	NS	7.4
W-114s	19	NS	ND	NS	ND	NS	NS	NS	ND
W-116s	19	ND	NS	NS	ND	NS	NS	NS	ND
W-117s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-120s	1.3	NS	NS	NS	11	NS	NS	NS	5.6
W-121s	5.2	NS	NS	NS	ND	NS	NS	NS	ND
W-122s	5.5	NS	NS	NS	ND	NS	NS	NS	ND
W-123s	6.3	NS	NS	NS	ND	NS	NS	NS	ND
W-124s	418	NS	313	NS	291	NS	285	NS	226
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12s	ND	NS	ND	ND	ND	NS	ND	NS	ND
MW-16s	6.5	NS	NS	NS	ND	NS	NS	NS	ND
MW-23s	11	NS	4.4	NS	1.7	NS	5.0	NS	ND
MW-33s	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-34s	ND	NS	NS	NS	ND	NS	NS	NS	11
MW-38s	9.1	NS	NS	NS	14	NS	NS	NS	ND

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
K2s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	8	17	ND	3	18	5	16	ND	5	ND	36	ND	ND	ND	ND	ND
K4sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K12s	NS	111	3	40	23	ND	ND	ND	39	NS	NS	NS	20	NS	NS	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	22	ND	8	13	3	3	ND	ND	NS	NS	NS	ND	NS	NS	NS
Lower Unconfined System																
W-5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	2	NS	NS
W-6d	NS	NS	NS	NS	NS	NS	NS	NS	NS	72	126	76	NS	68	143	130
W-7d	NS	NS	NS	NS	NS	NS	NS	NS	NS	7,919	9,731	9,017	NS	11,050	11,855	11,429
W-13d	NS	NS	NS	NS	NS	NS	NS	NS	NS	15	25	32	NS	24	34	19
W-15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	136	176	161	NS	93	123	91
W-16d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	168	217	NS	128	128	111
W-17d	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,059	3,208	2,523	NS	3,656	4,254	4,738
W-23d	NS	NS	NS	NS	NS	NS	NS	NS	NS	537	433	479	NS	404	385	396
W-26d	NS	NS	NS	NS	NS	NS	NS	NS	NS	10,318	10,933	10,072	NS	7,955	9,666	8,645
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	13	NS	NS
W-101i	14,902	6,972	33,718	33,048	41,138	41,656	11,071	31,938	31,579	32,406	5,493	5,813	6,231	6,201	4,933	6,875
W-102i	216	24	15	189	121	175	130	120	90	110	110	110	180	200	140	130
W-103i	352	315	1,524	3,032	3,610	3,501	1,299	2,054	923	1,383	509	1,560	1,692	1,609	2,156	1,055
W-104i	44	102	17	28	21	43	20	4	8	8	32	2	3	5	2	3
W-105i	1,081	130	6	34	105	65	26	7	6	18	50	44	33	30	25	25
W-106i	13,402	14,012	5,729	3,496	9,900	6,697	5,351	2,72	3,658	4,239	5,067	5,324	5,256	4,822	4,562	5,206
W-107i	2,527	1,582	3,836	2,222	4,387	1,551	1,458	1,170	775	598	950	839	776	538	497	472
W-110i	409	182	225	222	796	750	430	123	348	264	580	622	601	526	519	514
W-114i	1,445	1,808	267	361	1,920	1,921	1,447	1,524	1,694	2,262	4,004	4,198	3,880	4,795	3,624	3,821
W-116i	70	20	18	46	48	64	35	36	32	30	28	27	23	26	18	19
W-117i	358	956	62	215	946	1,361	530	926	NS	708	1,367	1,652	1,445	842	1,430	693
W-120i	213	607	118	176	601	442	456	550	258	128	363	336	365	198	226	254
W-121i	317	573	59	148	368	344	205	214	179	134	208	199	216	220	193	196
W-122i	191	926	141	178	286	201	134	109	156	117	156	142	160	189	141	126
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26,059	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	9,407	NS
OW 3	65	70	3	13	33	7	4	4	7	NS	NS	NS	24	NS	NS	NS
OW 9d	1,254	535	1,991	1,866	2,499	399	3,973	3,575	259	5,790	50	56	37	111	54	57

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	ND	17	13	7	9	8	7	7	11	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	ND	NS	NS
12	NS	NS	NS	12	NS	NS	NS	14	NS	NS	NS	NS	NS	8	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	2	NS	NS	NS	1	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
NS	119	151	102	NS	93	108	92	NS	69	109	NS	69	NS	117	NS	75
NS	12,747	11,523	11,697	NS	10,877	9,000	9,489	NS	8,946	7,493	NS	7,302	NS	11,481	NS	13,699
NS	32	20	46	NS	24	61	26	NS	24	38	NS	17	NS	8	NS	7
NS	270	202	203	NS	91	97	81	NS	44	64	NS	63	NS	71	NS	70
NS	199	150	29	NS	12	12	10	NS	6	7	NS	71	NS	28	NS	21
NS	6,696	7,270	4,744	NS	3,360	2,742	3,867	NS	4,294	4,819	NS	2,130	NS	2,236	NS	4,899
NS	294	347	251	NS	200	252	374	NS	247	620	NS	151	NS	1,451	NS	1,412
NS	6,960	7,353	7,943	NS	5,506	5,843	6,355	NS	5,579	5,150	NS	4,045	NS	4,681	NS	7,162
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
5,480	4,612	5,162	6,644	5,002	4,799	4,932	5,241	4,503	3,465	5,232	NS	4,470	NS	5,518	NS	4,270
97	63	120	110	78	94	42	69	52	94	81	NS	55	NS	42	NS	45
425	438	344	275	304	228	255	210	247	261	277	NS	230	NS	1,759	NS	1,638
3	2	ND	ND	ND	ND	2	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
24	21	18	11	10	8	9	2	ND	9	8	NS	NS	NS	ND	NS	NS
4,859	5,410	3,420	4,299	4,104	3,573	3,454	3,920	4,214	1,601	3,554	NS	2,584	NS	4,192	NS	2,537
476	540	482	341	329	303	304	204	241	204	229	NS	178	NS	166	NS	152
344	475	498	376	462	413	379	377	322	359	407	NS	222	260	2,307	2,105	2,090
2,737	4,222	5,550	7,077	5,683	8,590	8,882	6,940	6,080	8,984	5,453	NS	1,151	1,206	1,907	1,469	5,706
13	17	14	10	6	9	11	8	7	7	9	NS	NS	NS	38	NS	NS
856	1,128	1,339	510	398	431	559	424	293	622	598	NS	319	NS	1,142	NS	1,114
141	217	184	198	186	179	205	155	126	178	255	NS	65	NS	585	NS	544
138	194	180	169	160	118	149	146	94	120	119	NS	114	NS	106	NS	176
126	91	77	67	62	50	42	46	33	20	39	NS	46	NS	58	NS	78
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12	NS	NS	NS	20	NS	NS	NS	10	NS	NS	NS	4	NS	3	NS	5
48	43	26	24	22	17	30	22	19	15	24	NS	18	NS	60	NS	70

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
K2s	NS	20	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	NS	ND	NS	NS	NS	19	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K12s	NS	8	NS	NS	NS	11	NS	NS	NS	6	NS	NS	NS	29	5	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
Lower Unconfined System																
W-5d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6d	NS	65	NS	57	NS	47	NS	58	NS	33	NS	45	NS	19	NS	25
W-7d	NS	11,496	NS	11,743	NS	10,961	NS	11,122	NS	8,267	NS	2,341	NS	6,195	NS	7,253
W-13d	NS	19	NS	34	NS	19	NS	15	NS	14	NS	25	NS	15	NS	10
W-15d	NS	64	NS	107	NS	50	NS	66	NS	51	NS	97	NS	73	NS	72
W-16d	NS	16	NS	67	NS	13	NS	12	NS	12	NS	ND	NS	ND	NS	11
W-17d	NS	5,025	NS	4,135	NS	3,638	NS	3,718	NS	1,994	NS	1,252	NS	696	NS	862
W-23d	NS	1,213	NS	1,144	NS	1,068	NS	925	NS	784	NS	755	NS	487	NS	571
W-26d	NS	6,266	NS	5,666	NS	5,332	NS	5,436	NS	3,972	NS	4,819	NS	4,680	NS	4,798
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	NS	4,602	NS	11,160	NS	8,151	NS	11,731	NS	13,108	NS	13,543	NS	8,951	NS	8,666
W-102i	NS	51	NS	19	NS	50	NS	55	NS	31	NS	35	NS	38	NS	29
W-103i	NS	1,643	NS	1,437	NS	1,615	NS	1,450	NS	1,152	NS	1,740	NS	1,706	NS	1,525
W-104i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	4	NS	NS
W-106i	NS	4,039	NS	3,765	NS	2,741	NS	3,122	NS	2,337	NS	2,766	NS	1,791	NS	1,615
W-107i	NS	180	NS	126	NS	146	NS	115	NS	133	NS	125	NS	114	NS	75
W-110i	2,216	2,232	1,949	1,890	1,696	1,869	1,762	1,842	1,649	1,937	1,897	1,677	1,480	1,364	1,087	1,277
W-114i	5,885	8,564	8,668	10,728	12,251	9,166	4,732	12,280	13,042	13,006	13,307	15,563	15,417	15,558	13,810	13,888
W-116i	NS	48	NS	NS	NS	48	NS	NS	NS	46	NS	NS	NS	58	NS	NS
W-117i	NS	1,603	NS	2,656	NS	1,490	NS	1,174	NS	2,570	NS	2,403	NS	3,180	NS	2,717
W-120i	NS	520	NS	846	NS	802	NS	691	NS	724	NS	735	NS	730	NS	974
W-121i	NS	151	NS	198	NS	198	NS	214	NS	212	NS	219	NS	207	NS	189
W-122i	NS	76	NS	81	NS	75	NS	78	NS	79	NS	79	NS	69	NS	70
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	NS	2	NS	2	NS	1	NS	2	NS	5	NS	19	NS	1	NS	1
OW 9d	NS	89	NS	92	NS	101	NS	90	NS	94	NS	113	NS	108	NS	122

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	7.0	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	33	NS	20	NS	14	NS	13	NS	8.7	NS	18	NS	19	NS	12	NS
NS	9,712	NS	10,485	NS	9,077	13,070	10,697	9,918	11,365	NS	9,362	NS	10,920	NS	10,881	NS
NS	17	NS	5.0	NS	ND	NS	12	NS	49	NS	ND	NS	ND	NS	NS	NS
NS	74	NS	60	NS	38	NS	58	NS	13	NS	50	NS	58	NS	51	NS
NS	ND	NS	ND	NS	2.3	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	964	NS	2,130	NS	1,282	1,099	766	1,023	842	NS	540	NS	528	NS	569	NS
NS	385	NS	342	NS	301	NS	271	NS	251	NS	255	NS	189	NS	222	NS
NS	4,514	NS	4,737	NS	4,243	4,027	4,519	5,373	4,287	NS	4,697	NS	3,964	NS	4,188	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	16,203	NS	14,214	NS	12,665	11,646	8,797	11,389	7,925	NS	13,694	NS	9,456	NS	11,519	NS
NS	39	NS	33	NS	25	NS	29	NS	43	NS	35	NS	32	NS	19	NS
NS	1,411	NS	1,527	NS	1,170	1,307	1,422	1,527	1,523	NS	1,455	NS	1,552	NS	1,548	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	1.6	NS	NS	NS
NS	2.3	NS	NS	NS	3.6	NS	NS	NS	4.4	NS	NS	NS	3.0	NS	NS	NS
NS	984	NS	934	NS	1,005	NS	832	NS	457	NS	661	NS	485	NS	1,059	NS
NS	102	NS	82	NS	89	NS	105	NS	80	NS	60	NS	84	NS	61	NS
1,483	1,376	1,296	1,251	1,719	2,082	1,911	2,335	1,675	1,755	1,722	1,493	1,342	1,252	1,147	1,151	1,006
13,165	11,996	15,103	15,210	14,154	13,082	14,401	12,620	14,549	15,805	14,076	13,252	12,030	14,097	12,734	13,189	6,471
NS	68	NS	NS	NS	100	NS	NS	NS	80	NS	NS	NS	71	NS	NS	NS
NS	3,500	NS	3,636	NS	2,854	NS	3,410	NS	3,267	NS	2,862	NS	2,578	NS	3,763	NS
NS	492	NS	803	NS	1,219	NS	1,206	NS	790	NS	831	NS	492	NS	696	NS
NS	191	NS	173	NS	191	NS	199	NS	197	NS	231	NS	208	NS	225	NS
NS	92	NS	102	NS	100	NS	91	NS	88	NS	79	NS	67	NS	89	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	1.2	NS	6.8	NS	ND	NS	7.2	NS	6.9	NS	7.0	NS	7.6	NS	ND	NS
NS	102	NS	108	NS	95	73	91	99	90	NS	94	NS	73	NS	92	NS

Table 5-1

Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Upper Unconfined System									
K2s	ND	NS	NS	NS	ND	NS	NS	NS	ND
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	ND	NS	NS	NS	ND	NS	NS	NS	ND
K12s	155	NS	NS	NS	9.0	NS	NS	NS	1.2
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	18	NS	NS	NS	5.6	NS	NS	NS	4.3
Lower Unconfined System									
W-5d	8.4	NS	NS	NS	8.7	NS	NS	NS	5.1
W-6d	12	NS	19	NS	13	NS	8.5	NS	20
W-7d	9,542	NS	9,906	NS	8,927	NS	10,484	NS	NS
W-13d	ND	NS	ND	NS	NS	NS	ND	NS	ND
W-15d	56	NS	46	NS	45	NS	39	NS	51
W-16d	1.5	NS	1.4	NS	3.4	NS	ND	NS	1.3
W-17d	977	NS	1,260	NS	1,201	NS	1,471	NS	2,200
W-23d	151	NS	152	NS	124	NS	117	NS	113
W-26d	3,595	NS	2,729	NS	2,504	NS	2,878	NS	3,108
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	10,047	NS	11,283	NS	9,279	NS	7,866	NS	1,459
W-102i	28	NS	23	NS	19	NS	6.4	NS	9.8
W-103i	1,547	NS	1,556	NS	1,306	NS	1,148	NS	1,386
W-104i	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-105i	ND	NS	NS	NS	1.4	NS	NS	NS	2.4
W-106i	857	NS	1,504	NS	1,368	NS	1,553	NS	1,737
W-107i	57	NS	54	NS	52	NS	55	NS	83
W-110i	916	940	857	872	969	796	744	901	1,055
W-114i	2,878	2,390	2,332	3,554	2,250	2,079	5,127	8,722	7,900
W-116i	77	NS	NS	NS	121	NS	NS	NS	151
W-117i	3,350	NS	3,024	NS	3,091	NS	2,032	NS	2,659
W-120i	627	NS	645	NS	854	NS	761	NS	1,080
W-121i	242	NS	241	NS	246	NS	235	NS	229
W-122i	98	NS	82	NS	121	NS	116	NS	106
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	8.0	NS	ND	NS	ND	NS	ND	NS	ND
OW 9d	75	NS	65	NS	75	NS	NS	NS	339

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Lower Unconfined System																
OW 12	19,394	21,138	13,514	44,945	14,005	13,187	12,717	11,420	10,656	7,673	9,511	9,484	9,630	8,164	5,173	5,146
OW 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	735	4,582	5,269	NS	6,353	6,505	6,828
OW 16	1,281	104	310	36	309	281	135	107	39	94	61	50	45	82	109	125
OW 23	23,902	23,160	28,170	17,336	37,138	37,939	14,529	11,027	8,124	5,909	3,493	3,491	1,941	1,454	737	731
OW 29	210	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	34	26	7	10	8	8	ND	6	ND	NS	NS	NS	ND	NS	NS	NS
MW-38i	NS	NS	NS	NS	NS	NS	NS	NS	NS	24	44	19	NS	32	17	21
K3d	NS	NS	NS	NS	NS	NS	NS	NS	NS	27	23	ND	NS	9	10	ND
K5d	156	NS	ND	9	31	28	2	ND	19	NS	NS	NS	8	NS	NS	NS
K5dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K13d	NS	29	17	20	6	9	ND	ND	7	NS	NS	NS	36	NS	NS	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,123	2,622	3,138	NS	2,854	3,025	3,922
K31d	NS	37	7	15	15	7	4	15	9	ND	28	ND	ND	ND	ND	ND
TWA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,825	2,736	NS	2,294	2,650	2,378
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	19	ND	NS	22	NS	NS
UW1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5,338	5,667	NS	6,374	6,240	4,904
Confined System																
W-35d	NS	NS	NS	NS	NS	NS	NS	NS	NS	17	10	9	NS	18	14	15
W-101d	31,896	18,474	21,827	26,923	14,259	13,718	13,858	20,725	19,195	32,104	17,051	16,731	23,966	19,089	17,433	15,933
W-102d	85	44	20	98	4	4	ND	ND	28	3	ND	ND	ND	ND	ND	ND
W-123d	40	15	ND	ND	12	23	1	5	8	NS	NS	NS	ND	NS	NS	NS
W-124d	214	688	253	188	580	421	274	263	183	232	292	306	324	277	277	244
MW-12d	35	62	11	25	16	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16d	ND	ND	ND	1	7	4	ND	12	10	NS	NS	NS	ND	NS	NS	NS
MW-23d	92	24	18	124	13	6	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-33d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	8	NS	NS
MW-34d	NS	21	5	13	5	8	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38d	NS	NS	NS	NS	NS	NS	NS	NS	NS	59	NS	NS	NS	16	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
5,817	4,762	5,380	6,984	5,128	3,442	4,290	6,213	3,658	741	3,212	NS	4,335	NS	1,105	NS	1,084
NS	7,200	6,224	5,122	NS	4,076	3,674	4,098	NS	3,215	2,877	NS	3,192	NS	2,984	NS	4,016
138	158	154	104	67	64	52	48	17	1	22	NS	48	NS	266	NS	173
437	653	649	626	464	443	357	343	335	334	324	NS	233	NS	115	NS	208
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	10	9	5	NS	10	13	10	NS	12	10	NS	4	NS	5	NS	5
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	12	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	5	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
8	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	70	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
NS	3,205	3,642	3,601	NS	3,149	3,793	3,430	NS	3,528	3,129	NS	3,376	NS	14,522	NS	7,967
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	NS	NS	NS	52	NS	NS
NS	2,178	1,898	942	NS	539	525	537	NS	287	327	NS	256	NS	177	NS	257
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	3,646	3,875	4,878	NS	5,740	8,562	13,257	NS	16,397	11,800	NS	13,938	NS	43,848	NS	13,176

NS	12	18	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
15,056	18,057	20,966	23,229	24,593	22,717	26,694	23,374	27,231	24,918	29,516	NS	30,087	NS	42,901	NS	26,525
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
201	200	189	141	133	97	84	106	82	65	98	NS	76	NS	121	NS	137
ND	ND	ND	ND	ND	ND	ND	ND	144	ND	ND	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Lower Unconfined System																
OW 12	NS	912	NS	1,548	NS	1,017	NS	823	NS	1,620	NS	2,317	NS	2,366	NS	1,089
OW 14	NS	3,452	NS	3,004	NS	2,229	NS	2,127	NS	1,693	NS	1,961	NS	1,830	NS	1,883
OW 16	NS	90	NS	61	NS	94	NS	49	NS	39	NS	47	NS	41	NS	39
OW 23	NS	196	NS	117	NS	115	NS	112	NS	76	NS	94	NS	66	NS	74
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	NS	15	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	NS	11	NS	NS	NS	ND	NS	NS	NS	8	NS	NS	NS	ND	NS	NS
MW-38i	NS	3	NS	3	NS	9	NS	8	NS	11	NS	9	NS	9	NS	6
K3d	NS	8	NS	NS	NS	8	NS	NS	NS	14	NS	NS	NS	15	NS	NS
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	NS	ND	NS	NS	NS	8	NS	NS	NS	9	NS	NS	NS	10	NS	NS
K13d	NS	ND	NS	NS	NS	ND	NS	NS	NS	4	NS	NS	NS	ND	NS	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	7,559	NS	6,944	NS	8,340	NS	8,966	NS	6,339	NS	5,145	NS	6,611	NS	4,822
K31d	NS	17	NS	NS	NS	88	NS	NS	NS	33	NS	NS	NS	61	NS	NS
TWA	NS	353	NS	150	NS	178	NS	236	NS	130	NS	259	NS	143	NS	230
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	NS	7,400	NS	8,518	NS	6,336	NS	6,565	NS	4,309	NS	5,634	NS	4,923	NS	5,056
Confined System																
W-35d	NS	5	NS	NS	NS	11	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-101d	NS	40,658	NS	28,141	NS	25,864	NS	27,964	NS	27,538	NS	27,268	NS	27,030	NS	26,086
W-102d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-123d	NS	8	NS	NS	NS	12	NS	NS	NS	15	NS	NS	NS	29	NS	NS
W-124d	NS	147	NS	147	NS	142	NS	176	NS	148	NS	197	NS	174	NS	188
MW-12d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-16d	NS	ND	NS	NS	NS	ND	NS	NS	NS	10	NS	NS	NS	ND	NS	NS
MW-23d	NS	ND	NS	NS	NS	3	NS	NS	NS	9	NS	NS	NS	13	NS	NS
MW-33d	NS	18	NS	NS	NS	ND	NS	NS	NS	4	NS	NS	NS	ND	NS	NS
MW-34d	NS	13	NS	NS	NS	ND	NS	NS	NS	5	NS	NS	NS	ND	NS	NS
MW-38d	NS	9	NS	NS	NS	ND	NS	NS	NS	8	NS	NS	NS	8	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	536	NS	430	NS	2,100	NS	1,089	NS	2,522	NS	697	NS	1,128	NS	601	NS
NS	1,987	NS	2,133	NS	1,464	1,160	1,386	1,302	1,597	NS	1,479	NS	1,002	NS	1,497	NS
NS	25	NS	23	NS	25	NS	38	NS	32	NS	32	NS	22	NS	35	NS
NS	45	NS	78	NS	49	NS	55	NS	89	NS	38	NS	36	NS	40	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	18
NS	ND	NS	NS	NS	ND	NS	NS	NS	5.9	NS	NS	NS	14	NS	NS	17
NS	7	NS	6.4	NS	4.8	NS	3.6	NS	3.5	NS	4.3	NS	2.7	NS	3.4	NS
NS	12	NS	NS	NS	9.8	NS	NS	NS	9.5	NS	NS	NS	25	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	13	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	5.2	NS	NS	NS	12	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	5,267	NS	5,085	NS	3,636	NS	2,939	NS	2,215	NS	2,041	NS	1,726	NS	1,528	NS
NS	33	NS	NS	NS	29	NS	NS	NS	7.7	NS	NS	NS	ND	NS	NS	NS
NS	123	NS	202	NS	132	NS	167	NS	133	NS	176	NS	136	NS	180	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	4,753	NS	3,994	NS	3,394	3,708	3,509	3,353	3,144	NS	3,269	NS	4,713	NS	2,840	NS

NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	17,179	NS	29,983	NS	32,254	28,173	28,880	33,771	28,503	NS	20,957	NS	29,625	NS	29,698	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	25	NS	NS	NS	30	NS	NS	NS	34	NS	NS	NS	32	NS	NS	NS
NS	192	NS	222	NS	178	180	232	214	257	NS	224	NS	192	NS	378	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	18	NS	NS	NS	ND	NS	NS	NS	18	NS	NS	NS	5.9	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	54	NS	NS	NS	23	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	6.2	NS	NS	NS	6.0	NS	NS	15
NS	ND	NS	NS	NS	5.8	NS	NS	NS	7.9	NS	NS	NS	3.7	NS	NS	70
NS	ND	NS	NS	NS	14	NS	NS	NS	7.1	NS	NS	NS	12	NS	NS	ND
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-1
Quarterly Groundwater Monitoring Total Organic Compounds Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Lower Unconfined System									
OW 12	848	NS	841	NS	1,480	NS	1,071	NS	1,492
OW 14	1,035	NS	1,253	NS	1,479	NS	1,365	NS	1,153
OW 16	40	NS	21	NS	21	NS	21	NS	18
OW 23	33	NS	34	NS	32	NS	28	NS	30
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	10	NS	3.6	NS	3.9	NS	NS	NS	ND
MW-34i	8.9	7.2	ND	NS	6.5	NS	NS	NS	ND
MW-38i	4.4	NS	23	NS	3.3	NS	3.0	NS	2.8
K3d	50	NS	NS	NS	56	NS	NS	NS	33
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	19	2.1	NS	NS	NS	NS	NS	NS	ND
K13d	64	NS	7.1	NS	6.5	NS	NS	NS	1.9
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	1,325	NS	1,142	NS	1,144	NS	2,036	NS	1,021
K31d	ND	NS	NS	NS	3.0	NS	NS	NS	10
TWA	143	NS	166	NS	145	NS	126	NS	643
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	6,095	NS	2,310	NS	4,153	NS	1,891	NS	3,489
Confined System									
W-35d	ND	NS	NS	NS	ND	NS	NS	NS	27
W-101d	32,487	NS	30,898	NS	31,730	NS	31,905	NS	54,706
W-102d	ND	NS	ND	NS	ND	NS	5.6	NS	ND
W-123d	45	NS	NS	NS	46	NS	NS	NS	58
W-124d	560	NS	611	NS	623	NS	593	NS	720
MW-12d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-16d	5.9	NS	NS	NS	ND	NS	NS	NS	ND
MW-23d	35	NS	NS	NS	4.4	NS	NS	NS	1.5
MW-33d	23	NS	NS	NS	2.2	NS	NS	NS	ND
MW-34d	52	NS	NS	NS	22	NS	NS	NS	ND
MW-38d	37	18	3.8	NS	1.8	NS	NS	NS	6.6
TWF	NS	NS	ND	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

	Analyte Results (ug/L)															
Well	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Extraction Wells																
EW-1	NS	NS	NS	1,085	1,166	899	840	885	637	444	658	663	551	474	406	380
EW-2	NS	NS	NS	9,572	7,797	7,142	6,976	2,911	6,634	4,889	5,149	5,758	5,648	5,180	4,617	4,926
EW-3	NS	NS	NS	20,078	18,308	16,241	14,312	7,912	6,945	626	6,131	7,316	5,813	3,872	5,144	4,450
EW-4	NS	NS	NS	582	989	632	848	1,134	1,050	2,326	4,839	6,442	8,997	8,921	8,406	8,566
EW-5	NS	NS	NS	962	1,113	923	537	1,141	824	749	1,141	1,149	1,261	1,142	1,208	1,434
EW-6	NS	NS	NS	558	670	NS	NS	NS	571	655	760	738	865	638	585	828
EW-6a	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-7	NS	NS	NS	317	212	464	ND	206	184	152	165	156	197	177	157	188
EW-8	NS	NS	NS	33,955	39,402	26,464	29,236	32,807	33,413	28,931	31,032	27,016	28,958	23,703	25,345	26,220
EW-9	NS	NS	NS	1,803	1,848	1,719	1,551	1,357	1,323	1,146	1,493	1,638	1,413	1,634	1,473	1,672
EW-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	23,324
EW-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.
NS Well was not sampled during the quarter indicated.

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
260	297	303	232	225	164	149	187	154	107	186	181	116	100	95	101	82
3,308	3,663	4,119	3,616	1,980	2,856	2,319	2,869	2,535	2,756	2,848	2,230	2,030	1,796	1,647	1,723	1,810
2,703	3,222	3,179	3,123	1,589	2,103	2,044	1,711	1,781	1,391	2,273	1,804	1,462	1,127	1,321	1,565	1,541
5,695	6,768	7,390	6,023	6,252	6,646	6,828	5,501	5,952	4,855	5,523	5,647	3,732	3,281	4,057	4,148	3,571
1,339	2,063	2,166	2,190	2,593	2,574	2,726	3,088	2,965	2,644	3,465	3,656	3,882	4,005	5,308	4,784	4,218
454	669	749	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	590	576	538	466	551	440	465	538	538	165	524	1,080	952	1,055
152	158	151	143	140	119	125	130	110	97	113	106	118	93	166	190	175
25,761	23,803	25,240	23,805	20,886	22,286	18,218	16,728	13,488	10,547	11,980	13,606	8,164	9,794	16,942	10,698	9,929
1,514	674	1,844	1,594	1,445	1,356	1,187	1,428	1,574	574	1,517	1,341	1,375	1,156	1,326	1,501	1,382
16,075	14,822	16,245	15,906	12,204	12,945	12,339	13,061	16,196	9,911	9,626	10,312	7,701	7,612	8,529	6,916	7,934
NS	NS	NS	NS	NS	NS	7,662	7,520	9,608	8,402	9,255	11,297	8,787	8,943	10,898	8,644	7,962

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Analyte Results (ug/L)

Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Extraction Wells																
EW-1	88	75	84	72	58	77	74	72	69	74	79	87	71	71	58	37
EW-2	1,708	1,716	1,657	1,724	1,772	1,437	1,616	1,566	1,536	1,553	1,596	1,753	1,580	1,527	1,228	1,313
EW-3	1,220	1,589	1,595	1,515	1,693	1,626	1,465	1,686	1,803	1,679	1,556	1,841	1,859	1,588	1,418	1,430
EW-4	4,028	4,111	3,455	3,641	3,895	3,353	3,334	3,535	3,653	3,125	3,347	3,932	4,099	3,394	3,490	3,253
EW-5	3,416	2,892	3,901	2,337	2,630	3,032	3,446	2,965	2,240	1,902	2,602	2,351	2,245	1,574	2,389	1,671
EW-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-6a	907	1,045	1,303	1,051	996	876	1,165	1,107	775	986	931	1,176	982	834	949	1,000
EW-7	186	150	166	168	145	149	182	181	143	136	175	185	154	161	192	213
EW-8	9,356	9,494	9,908	9,813	9,025	8,283	8,322	8,005	7,182	7,534	7,083	7,704	7,493	6,607	6,414	5,448
EW-9	1,382	1,357	1,408	1,402	1,243	1,287	1,400	1,461	1,372	1,292	1,478	1,375	1,233	1,156	1,296	1,281
EW-10	6,955	6,124	6,720	5,737	5,255	4,444	4,977	3,945	4,350	3,602	4,687	4,455	4,580	4,736	4,374	3,849
EW-11	7,202	6,972	7,698	6,805	7,030	6,956	6,289	5,868	5,648	5,259	4,984	5,035	4,766	5,229	5,297	4,955

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
44	40	34	32	37	28	31	24	38	46	40	35	30	44	31	30	33
1,353	1,248	1,294	1,135	1,301	1,196	1,307	1,223	1,171	1,061	1,017	902	872	987	945	874	716
1,542	1,447	1,631	1,457	1,528	1,384	1,691	1,546	1,532	961	1,284	1,052	908	1,131	730	858	785
3,340	3,210	3,497	3,710	3,319	3,397	3,613	3,160	2,893	2,694	2,605	2,921	2,382	2,549	2,017	2,130	2,145
1,591	1,358	1,959	1,784	1,409	1,242	840	874	937	973	1,631	1,923	1,530	2,085	1,588	2,100	1,779
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
814	604	822	860	645	1,043	1,111	1,114	853	483	663	754	590	442	428	451	591
208	194	214	199	192	202	190	196	184	140	126	105	112	152	146	150	154
5,657	4,913	5,115	4,600	4,304	4,610	5,001	4,882	4,268	4,539	6,462	4,335	3,942	4,416	4,299	4,216	4,205
1,335	1,309	1,408	1,254	1,203	1,131	1,289	1,296	1,142	1,235	765	1,008	1,302	1,314	1,209	1,308	1,197
3,705	4,038	4,116	3,767	3,591	3,487	3,785	3,125	2,723	2,631	3,480	2,894	2,307	2,378	2,257	2,317	1,944
4,903	4,911	4,364	5,222	5,333	5,056	5,300	5,941	4,703	4,714	814	3,958	3,245	3,975	3,563	3,880	3,110

Table 5-2
Quarterly Groundwater Monitoring Total Organic Compounds-Extraction Wells

Analyte Results (ug/L)

Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-13
Extraction Wells									
EW-1	41	38	29	34	35	42	33	34	40
EW-2	877	757	770	756	872	771	760	832	895
EW-3	779	768	706	867	1,113	1,007	865	1,030	820
EW-4	2,039	1,929	1,911	1,887	2,112	1,820	1,761	1,616	1,833
EW-5	2,014	2,022	1,715	1,297	1,770	1,541	1,397	1,380	1,437
EW-6	NS	NS	592	593	NS	NS	NS	NS	685
EW-6a	594	389	550	708	696	687	644	775	NS
EW-7	166	174	153	140	124	133	126	107	89
EW-8	4,353	4,408	4,103	3,840	3,733	3,356	3,882	3,756	3,498
EW-9	1,213	1,150	1,136	1,267	1,137	1,023	1,085	836	854
EW-10	2,124	2,005	1,885	1,779	1,891	1,869	1,865	1,662	1,783
EW-11	3,623	3,201	2,853	2,944	3,047	2,695	2,958	2,346	2,697

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-7s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-15s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-16s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	ND	ND
W-17s	NS	NS	NS	NS	NS	NS	NS	NS	NS	1	2	ND	NS	ND	ND	ND
W-18s	NS	NS	NS	NS	NS	NS	NS	NS	NS	57	120	260	NS	79	130	130
W-26s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-101s	180	160	190	240	250	200	450	280	190	260	290	250	220	210	200	ND
W-102s	330	320	380	480	350	210	300	720	390	390	390	320	290	280	250	210
W-103s	17	42	5	8.6	89	81	42	31	92	100	39	60	73	75	79	96
W-104s	4.2	5	1	1.6	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-105s	ND	29	4.5	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-106s	7.4	ND	3.4	2.4	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-107s	ND	ND	14	2.9	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-110s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-114s	ND	1.7	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-116s	1.4	1.7	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-117s	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	NS	NS	NS
W-120s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-121s	1.1	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-122s	ND	1.5	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-123s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124s	3,300	1,900	3,000	2,700	2,700	500	3,400	690	870	1,100	650	490	450	550	570	130
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4,400	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS
MW-12s	ND	4.7	2.3	1.7	7.4	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16s	ND	26	13	2.2	2.3	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-23s	ND	9	3.2	1.6	120	2.2	13	ND	ND	1.2	ND	ND	ND	ND	ND	3
MW-33s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	ND	1.3	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	NS	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	12	ND	ND	NS	ND	ND	11	NS	ND	ND	NS	14	NS	34	NS	23
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
79	140	230	360	250	290	260	280	280	230	93	NS	160	NS	330	NS	170
200	110	180	160	130	95	110	120	110	83	120	NS	110	NS	87	NS	98
85	57	110	92	58	35	44	47	24	16	13	NS	22	NS	14	NS	30
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
79	640	170	97	550	1,100	530	340	590	530	360	NS	110	NS	180	NS	270
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
37	11	9.4	27	9.4	8.2	8.1	17	19	7.5	3.5	NS	8.4	NS	1.8	NS	1.1
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-17s	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-18s	NS	20	NS	ND	NS	ND	NS	ND	NS	25	NS	ND	NS	87	NS	54
W-26s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	NS	120	NS	110	NS	100	NS	130	NS	68	NS	64	NS	70	NS	80
W-102s	NS	65	NS	110	NS	95	NS	98	NS	78	NS	31	NS	41	NS	31
W-103s	NS	19	NS	11	NS	10	NS	12	NS	12	NS	17	NS	10	NS	9.4
W-104s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-106s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-107s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-110s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-114s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-116s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-117s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-120s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-121s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-122s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-123s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-124s	NS	270	NS	230	NS	190	NS	220	NS	160	NS	130	NS	70	NS	130
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12s	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
MW-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-23s	NS	5.1	NS	9.3	NS	3.5	NS	6.8	NS	ND	NS	2.1	NS	1.8	NS	3.1
MW-33s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	ND	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	41	NS	34	NS	ND	ND	36	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	46	NS	28	NS	20	16	ND	16	15	NS	ND	NS	12	NS	ND	NS
NS	35	NS	26	NS	25	32	31	36	40	NS	34	NS	34	NS	22	NS
NS	7.5	NS	5.7	NS	9.1	NS	4.7	NS	4.6	NS	7.4	NS	4.8	NS	1.6	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	96	NS	97	NS	110	65	72	72	60	NS	73	NS	79	NS	48	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	1.9	NS	1.0	NS	ND	NS	ND	NS	ND	NS	3.3	NS	6.4	NS	5	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Upper Unconfined System									
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	ND	NS	ND	ND	ND	NS	ND	NS	ND
W-16s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-17s	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-18s	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-26s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	ND	NS	10	NS	ND	NS	ND	NS	ND
W-102s	43	NS	25	NS	31	NS	22	NS	29
W-103s	5.2	NS	3.6	NS	3.1	NS	1.6	NS	2.3
W-104s	ND	NS	ND	NS	ND	NS	NS	NS	ND
W-105s	ND	ND	NS	NS	ND	NS	NS	NS	ND
W-106s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-107s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-110s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-114s	ND	NS	ND	NS	ND	NS	NS	NS	ND
W-116s	ND	ND	NS	NS	ND	NS	NS	NS	ND
W-117s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-120s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-121s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-122s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-123s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-124s	60	NS	42	NS	47	NS	48	NS	27
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12s	ND	NS	ND	NS	ND	NS	ND	NS	ND
MW-16s	ND	NS	NS	NS	ND	NS	ND	NS	ND
MW-23s	11	NS	4.4	NS	1.7	NS	5.0	NS	ND
MW-33s	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-34s	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-38s	ND	NS	NS	NS	ND	NS	NS	NS	ND

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
K2s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
K4sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K12s	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
Lower Unconfined System																
W-5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-7d	NS	NS	NS	NS	NS	NS	NS	NS	NS	73	51	44	NS	ND	59	ND
W-13d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.4	ND	ND	NS	1.2	ND	ND
W-16d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	ND	ND
W-17d	NS	NS	NS	NS	NS	NS	NS	NS	NS	2	2	1	NS	ND	ND	ND
W-23d	NS	NS	NS	NS	NS	NS	NS	NS	NS	220	130	140	NS	110	140	120
W-26d	NS	NS	NS	NS	NS	NS	NS	NS	NS	69	ND	60	NS	ND	ND	ND
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
W-101i	110	43	200	280	300	300	87	260	240	250	180	160	190	170	150	140
W-102i	2.8	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-103i	12	44	63	76	140	140	56	94	60	79	50	150	160	180	150	110
W-104i	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-105i	160	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-106i	610	2,200	210	710	1,600	520	710	950	500	780	630	390	300	190	190	340
W-107i	150	170	460	340	350	170	120	76	69	58	85	75	83	60	54	58
W-110i	24	37	26	13	60	51	48	36	40	32	31	33	37	30	30	27
W-114i	57	160	19	38	110	140	130	110	190	230	190	210	200	230	220	200
W-116i	2.1	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-117i	19	56	6.3	12	43	78	84	110	NS	120	180	150	160	110	140	68
W-120i	10	41	5.6	6	29	27	27	25	22	20	18	22	22	21	20	16
W-121i	7	24	9.5	2.3	14	12	12	10	9.6	6.2	8	9.6	10	9	8.6	8.2
W-122i	ND	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND	2	ND
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	12	NS
OW 3	ND	3	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
OW 9d	ND	ND	ND	ND	ND	15	21	27	ND	75	ND	ND	ND	ND	ND	ND

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	43	55	52	NS	56	40	40	NS	43	33	NS	25	NS	41	NS	43
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	4	1.4	1.7	NS	1.4	1.4	1.4	NS	1.9	1.1	NS	1.4	NS	1.9	NS	1.4
NS	100	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	1.3	NS	ND	NS	ND
NS	2	2	3	NS	1	ND	ND	NS	ND	2	NS	1	NS	9	NS	8
NS	61	89	56	NS	74	87	100	NS	20	130	NS	75	NS	67	NS	51
NS	43	43	46	NS	35	37	39	NS	31	31	NS	30	NS	28	NS	28
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
170	140	170	170	150	150	160	140	140	130	130	NS	120	NS	160	NS	120
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
56	41	41	42	32	30	35	29	32	28	38	NS	28	NS	24	NS	29
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
690	580	410	530	500	410	420	550	630	370	490	NS	370	NS	420	NS	340
87	72	69	43	48	52	49	44	41	43	35	NS	30	NS	29	NS	24
25	22	25	24	21	23	24	27	23	20	19	NS	17	19	17	55	18
160	200	210	320	300	440	490	650	560	940	440	NS	250	200	120	110	430
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
120	130	140	38	33	36	49	37	32	80	68	NS	30	NS	40	NS	33
16	13	15	13	11	14	15	15	6.6	14	16	NS	13	NS	16	NS	12
7.7	7.9	7.4	7.4	6.5	6.7	6.7	7.2	6.3	5.6	5.5	NS	5.1	NS	4.9	NS	5.4
1.5	1.2	ND	1	ND	ND	ND	ND	ND	ND	1	NS	1.8	NS	2.5	NS	2.5
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	ND	NS	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
K2s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K12s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	ND	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
Lower Unconfined System																
W-5d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-7d	NS	50	NS	36	NS	33	NS	32	NS	29	NS	5	NS	19	NS	21
W-13d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-15d	NS	1.5	NS	ND	NS	ND	NS	ND	NS	1.1	NS	2.9	NS	1.3	NS	ND
W-16d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-17d	NS	9.8	NS	9.1	NS	20	NS	15	NS	3.5	NS	ND	NS	ND	NS	1.1
W-23d	NS	50	NS	40	NS	29	NS	26	NS	20	NS	19	NS	15	NS	21
W-26d	NS	23	NS	23	NS	28	NS	27	NS	22	NS	21	NS	21	NS	19
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	NS	120	NS	150	NS	170	NS	190	NS	220	NS	190	NS	310	NS	120
W-102i	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-103i	NS	32	NS	32	NS	29	NS	29	NS	31	NS	29	NS	28	NS	27
W-104i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-106i	NS	290	NS	410	NS	360	NS	390	NS	310	NS	310	NS	240	NS	210
W-107i	NS	35	NS	24	NS	24	NS	24	NS	22	NS	21	NS	25	NS	15
W-110i	17	15	13	13	12	11	11	10	10	9	10	10	10	8.9	7.0	6.6
W-114i	630	840	630	910	1,100	840	500	1,100	1,100	1,100	1,300	1,200	1,100	1,200	1,200	1,100
W-116i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-117i	NS	87	NS	190	NS	91	NS	37	NS	170	NS	120	NS	150	NS	120
W-120i	NS	12	NS	12	NS	13	NS	14	NS	13	NS	12	NS	9.8	NS	12
W-121i	NS	5.5	NS	7.2	NS	7	NS	7.4	NS	4.6	NS	6.8	NS	6.4	NS	5.4
W-122i	NS	2.3	NS	2.6	NS	2.4	NS	2.6	NS	2.6	NS	2.7	NS	2.4	NS	2.2
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 9d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	38	NS	27	NS	27	27	28	32	28	NS	33	NS	43	NS	27	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	NS	1.4	NS	1.7	NS	1.4	NS	1.8	NS	ND	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	3.1	NS	4.1	NS	1.3	1.0	1.9	1.2	2.0	NS	ND	NS	ND	NS	6.3	NS
NS	17	NS	18	NS	12	NS	19	NS	16	NS	8.7	NS	8.1	NS	23	NS
NS	20	NS	15	NS	17	16	16	17	16	NS	19	NS	15	NS	8	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	190	NS	170	NS	160	140	150	180	130	NS	160	NS	120	NS	120	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	34	NS	27	NS	32	44	26	29	28	NS	38	NS	45	NS	18	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	100	NS	62	NS	56	NS	54	NS	40	NS	94	NS	36	NS	170	NS
NS	23	NS	17	NS	18	NS	21	NS	18	NS	17	NS	16	NS	13	NS
7.4	8.7	7.2	8.0	7.2	7.8	6.0	6.5	5.0	6.4	5.1	5.1	4.2	3.8	3.3	3.6	3.7
1,200	1,400	1,300	1,200	1,200	1,200	1,200	1,000	1,100	940	980	1,000	900	890	810	400	530
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	140	NS	86	NS	62	NS	81	NS	64	NS	67	NS	77	NS	110	NS
NS	13	NS	14	NS	16	NS	20	NS	17	NS	13	NS	11	NS	14	NS
NS	6.9	NS	7.0	NS	7.4	NS	8.4	NS	8.3	NS	8.8	NS	ND	NS	7.4	NS
NS	2.9	NS	3.2	NS	2.9	NS	ND	NS	2.8	NS	3.1	NS	ND	NS	3.2	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Upper Unconfined System									
K2s	ND	NS	NS	NS	ND	NS	NS	NS	ND
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	ND	NS	NS	NS	ND	NS	NS	NS	ND
K12s	ND	NS	NS	NS	ND	NS	NS	NS	ND
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	ND	NS	NS	NS	ND	NS	NS	NS	ND
Lower Unconfined System									
W-5d	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-6d	NS	NS	ND	NS	ND	NS	ND	NS	ND
W-7d	21	NS	29	NS	24	NS	27	NS	NS
W-13d	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-15d	ND	NS	ND	NS	1.9	NS	ND	NS	ND
W-16d	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-17d	3.3	NS	4.2	NS	7.0	NS	6.3	NS	11
W-23d	28	NS	25	NS	34	NS	23	NS	24
W-26d	12	NS	11	NS	9.3	NS	8.4	NS	9.8
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	130	NS	20	NS	130	NS	120	NS	63
W-102i	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-103i	33	NS	30	NS	ND	NS	18	NS	9.6
W-104i	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-105i	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-106i	73	NS	150	NS	160	NS	170	NS	190
W-107i	14	NS	15	NS	14	NS	13	NS	15
W-110i	4.0	3.6	3.3	3.7	3.5	3.7	3.6	3.6	3.6
W-114i	340	280	240	320	220	210	400	450	480
W-116i	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-117i	130	NS	150	NS	150	NS	110	NS	120
W-120i	13	NS	13	NS	12	NS	14	NS	19
W-121i	7.2	NS	7.1	NS	7.3	NS	7.4	NS	7.6
W-122i	3.2	NS	2.9	NS	3.2	NS	3.2	NS	3.1
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 9d	ND	NS	ND	NS	ND	NS	ND	NS	3.1

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Lower Unconfined System																
OW 12	330	160	190	ND	120	190	180	160	120	150	150	190	140	130	99	83
OW 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.6	69	80	NS	170	160	140
OW 16	32	9.4	23	3.7	19	24	16	12	5.2	9.6	5.1	5.4	4.4	5	6.5	6.1
OW 23	8,300	3,800	2,800	1,900	9,900	10,000	1,300	750	450	540	260	160	52	280	180	120
OW 29	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	1.4	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
K3d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
K5d	10	NS	ND	1.1	ND	1	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
K5dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K13d	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	51	33	37	NS	33	ND	ND
K31d	NS	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TWA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2	45	NS	66	79	81
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	NS	NS
UW1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	36	47	NS	48	43	ND
Confined System																
W-35d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-101d	7	5	5	17	ND	ND	ND	ND	ND	48	ND	ND	ND	ND	ND	ND
W-102d	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-123d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124d	16	57	18	24	40	34	27	24	23	26	24	21	15	16	18	13
MW-12d	3.7	1.8	1.6	ND	3.1	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-23d	1	6.8	ND	9	2.1	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-33d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34d	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
89	60	46	66	39	40	53	55	47	19	27	NS	57	NS	10	NS	17
NS	160	180	58	NS	46	46	50	NS	67	43	NS	43	NS	42	NS	46
9.1	8	8.5	6.4	3.5	4	4	2.5	2.2	1.4	2.1	NS	2.2	NS	1.9	NS	1.3
47	33	31	22	14	13	10	7.7	7.1	5.8	6.3	NS	3.8	NS	3.8	NS	2.9
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
NS	30	29	32	NS	28	29	27	NS	29	23	NS	15	NS	21	NS	18
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
NS	49	50	12	NS	3.6	3.8	3.4	NS	2.4	2.1	NS	1.7	NS	1.6	NS	1
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	21	25	NS	23	23	29	NS	35	34	NS	31	NS	37	NS	26

NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
12	10	9.2	8.1	7.4	6.5	5.8	6.5	6	5.2	6.6	NS	6	NS	8.6	NS	7.7
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Lower Unconfined System																
OW 12	NS	15	NS	22	NS	11	NS	9.9	NS	10	NS	34	NS	28	NS	20
OW 14	NS	38	NS	51	NS	34	NS	34	NS	30	NS	44	NS	28	NS	30
OW 16	NS	1.3	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 23	NS	2.6	NS	1.6	NS	1.7	NS	1.5	NS	1.4	NS	1.2	NS	ND	NS	ND
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38i	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
K3d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K13d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	16	NS	12	NS	10	NS	7	NS	6	NS	7	NS	12	NS	8.6
K31d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
TWA	NS	1.7	NS	1	NS	1.4	NS	1.2	NS	ND	NS	1.1	NS	ND	NS	1.0
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	NS	21	NS	16	NS	16	NS	14	NS	10	NS	10	NS	8	NS	8.7
Confined System																
W-35d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-101d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-102d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-123d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-124d	NS	7.8	NS	8.4	NS	7.2	NS	7.7	NS	7.2	NS	8.1	NS	7.2	NS	6.8
MW-12d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-16d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-23d	NS	ND	NS	NS	NS	2	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-33d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-3
Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	6.5	NS	6.2	NS	15	NS	20	NS	30	NS	12	NS	8.2	NS	17.0	NS
NS	45	NS	48	NS	31	28	35	28	33	NS	47	NS	21	NS	33	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	12	NS	9.8	NS	9.3	NS	9.0	NS	7.1	NS	9.0	NS	7.8	NS	9.2	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	1.1	NS	1.1	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	8.7	NS	7.8	NS	7.0	6.9	7.8	8.7	7.3	NS	10	NS	12	NS	4.5	NS

NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	ND	NS	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	9.0	NS	9.3	NS	9.5	9.8	10	11	9.8	NS	10	NS	8.4	NS	9	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	ND
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-3

Quarterly Groundwater Monitoring Benzene Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Lower Unconfined System									
OW 12	6.5	NS	8.8	NS	7.6	NS	17	NS	34
OW 14	26	NS	29	NS	39	NS	33	NS	24
OW 16	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 23	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	ND	NS	ND	NS	ND	NS	NS	NS	ND
MW-34i	ND	ND	ND	NS	ND	NS	NS	NS	ND
MW-38i	ND	NS	ND	NS	ND	NS	ND	NS	ND
K3d	ND	NS	NS	NS	7.9	NS	NS	NS	ND
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	ND	ND	NS	NS	NS	NS	NS	NS	ND
K13d	ND	NS	ND	NS	ND	NS	NS	NS	ND
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	8.2	NS	9.0	NS	9.2	NS	9.2	NS	9.7
K31d	ND	NS	NS	NS	ND	NS	NS	NS	ND
TWA	ND	NS	ND	ND	ND	NS	ND	NS	9.0
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	11	NS	5.1	NS	8.3	NS	4.5	NS	7.1
Confined System									
W-35d	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-101d	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-102d	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-123d	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-124d	11	NS	11	NS	11	NS	8.7	NS	12
MW-12d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-16d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-23d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-33d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-34d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-38d	ND	NS	ND	NS	ND	NS	NS	NS	ND
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

	Analyte Results (ug/L)															
Well	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Extraction Wells																
EW-1	NS	NS	NS	23	23	14	12	13	ND	11	12	11	12	10	10	8
EW-2	NS	NS	NS	1,300	1,400	1,300	1,100	930	900	960	620	620	570	550	610	530
EW-3	NS	NS	NS	4,200	3,800	2,900	2,700	1,300	1,200	ND	770	1,100	900	540	870	730
EW-4	NS	NS	NS	45	58	2	52	71	72	490	600	950	1,400	1,400	1,300	1,500
EW-5	NS	NS	NS	59	64	67	70	91	110	100	100	110	120	120	140	170
EW-6	NS	NS	NS	220	270	NS	NS	NS	190	260	230	270	300	190	180	160
EW-6a	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-7	NS	NS	NS	16	8	19	ND	10	13	16	14	17	18	17	17	17
EW-8	NS	NS	NS	930	2,300	1,000	270	1,100	1,500	1,400	1,100	940	1,000	960	880	1,100
EW-9	NS	NS	NS	57	38	31	24	32	25	33	33	32	26	33	31	25
EW-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	470
EW-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.
NS Well was not sampled during the quarter indicated.

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
7	5	6	5	5	4	4	4	4	3	3	4	4	3	3	3	2
380	300	290	250	190	180	200	180	150	110	150	140	120	96	69	88	66
520	450	510	580	340	370	430	350	390	300	530	390	290	230	250	260	220
1,100	1,000	990	930	790	1,000	1,200	1,200	940	800	820	760	660	550	630	600	500
180	200	190	270	290	330	340	490	520	490	540	660	820	740	790	750	610
140	170	180	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	100	85	100	100	110	92	83	82	78	71	72	75	62	62
15	14	12	13	10	11	10	12	10	8	8	7	7	7	9	8	8
830	780	700	820	640	610	530	460	510	420	410	340	310	270	270	230	280
31	27	31	28	23	25	24	26	27	21	28	21	24	19	25	22	23
300	240	220	200	140	130	110	99	100	77	77	60	50	47	52	41	45
NS	NS	NS	NS	NS	NS	17	16	31	53	100	140	160	190	170	180	170

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

Analyte Results (ug/L)

Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Extraction Wells																
EW-1	2.3	2.1	2.5	2.5	2.0	2.3	1.9	2.1	1.6	1.8	2.7	2.4	2.1	2.2	1.6	1.4
EW-2	68	71	63	66	66	69	61	62	58	58	64	58	55	55	49	45
EW-3	240	260	220	250	250	270	250	250	240	250	240	250	250	230	200	190
EW-4	590	660	530	600	560	540	500	560	530	560	510	490	490	480	460	410
EW-5	530	510	540	500	440	540	580	530	390	420	430	360	290	300	320	310
EW-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-6a	76	75	74	80	70	74	69	69	61	51	51	45	42	43	8	35
EW-7	8.1	7.7	6.8	6.4	6.5	6.7	7.6	7.4	6.6	5.9	7.4	7.1	6.2	5.5	5.6	5.5
EW-8	320	350	240	260	240	250	220	210	220	230	190	210	200	180	180	160
EW-9	25	24	24	27	26	27	28	29	25	24	27	28	25	26	26	26
EW-10	39	32	30	28	26	29	28	26	23	23	21	18	20	18	18	15
EW-11	170	150	160	170	130	140	120	92	98	89	94	91	88	91	130	140

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
1.3	ND	ND	1.2	1.2	ND	ND	1.2	1.0	1.7	ND	ND	1.1	1.0	ND	ND	ND
53	53	48	43	49	52	47	49	41	42	40	35	35	37	32	33	28
230	200	200	180	210	190	190	210	200	160	150	130	110	93	95	81	77
490	490	480	500	530	600	580	570	580	490	490	570	510	450	390	400	350
270	260	300	210	180	120	88	88	94	140	160	190	190	250	270	330	300
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
34	16	30	57	44	53	56	46	50	39	29	39	39	21	33	20	40
7	6.7	ND	7.8	7.9	7.2	6.5	6.0	5.6	5.9	5.2	4.8	5.2	4.3	4.5	5.0	4.7
140	120	130	110	110	130	140	130	120	110	100	140	140	120	100	110	100
28	27	28	26	27	27	27	27	25	28	17	28	27	23	24	23	23
16	14	15	13	12	10	12.0	11	9.3	10.0	8.7	9.0	7.2	6.7	6.9	7.0	6.3
140	130	130	160	150	140	150	140	110	100	25	120	94	93	88	70	69

Table 5-4
Quarterly Groundwater Monitoring Benzene Concentrations-Extraction Wells

Analyte Results (ug/L)

Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Extraction Wells									
EW-1	1.2	1.1	1.0	ND	1.0	1.4	1.1	1.2	1.4
EW-2	32	29	27	28	29	29	28	26	30
EW-3	74	73	71	84	92	120	110	100	98
EW-4	360	320	320	350	330	350	330	260	310
EW-5	310	360	320	240	320	300	330	200	250
EW-6	NS	NS	25	12	NS	NS	NS	NS	38
EW-6a	35	26	35	42	51	36	35	45	NS
EW-7	5.7	5.3	5.3	4.7	6.7	4.9	4.9	4.4	3.7
EW-8	96	95	100	100	89	86	100	100	87
EW-9	24	23	23	22	23	23	24	18	18
EW-10	7.3	6.2	6.2	6.1	5.9	6.1	6.2	5.1	5.8
EW-11	64	61	56	55	54	54	60	46	55

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-7s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-15s	NS	NS	NS	NS	NS	NS	NS	NS	NS	13	17	21	NS	12	9.5	14
W-16s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	ND	ND
W-17s	NS	NS	NS	NS	NS	NS	NS	NS	NS	26	96	56	NS	28	48	49
W-18s	NS	NS	NS	NS	NS	NS	NS	NS	NS	29	ND	ND	NS	69	ND	14
W-26s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	9.3	NS	6.8	10	12
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS
W-101s	5,700	2,500	4,100	3,800	6,000	3,800	890	5,600	4,600	6,500	8,200	6,600	7,200	7,000	6,800	2,800
W-102s	24	23	110	82	300	180	100	280	370	300	320	380	460	260	270	400
W-103s	110	150	78	67	350	300	72	16	69	180	210	270	180	170	240	260
W-104s	37	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-105s	ND	17	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-106s	16	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-107s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-110s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-114s	ND	ND	9.7	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-116s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-117s	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	NS	NS	NS
W-120s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-121s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-122s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-123s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124s	570	1,500	1,400	530	340	130	140	340	28	19	16	ND	14	ND	ND	15
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	33,000	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,000	NS
MW-12s	ND	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46
MW-16s	ND	7.8	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-23s	ND	ND	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-33s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	ND	ND	ND	NS	15	9.2	ND	NS	10	ND	NS	NS	NS	ND	NS	NS
NS	NS	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	NS	NS	NS
NS	29	ND	13	NS	12	5.4	8.8	NS	10	6.8	NS	12	NS	23	NS	26
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
NS	61	45	44	NS	33	34	57	NS	49	29	NS	50	NS	35	NS	27
NS	ND	ND	ND	NS	25	31	41	NS	18	22	NS	38	NS	42	NS	35
NS	10	9.2	12	NS	9.1	9.7	8.7	NS	5.1	9.2	NS	NS	NS	17	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
6,100	4,500	2,500	2,900	2,500	1,700	1,600	1,800	850	860	440	NS	700	NS	1,200	NS	880
240	210	170	160	200	110	120	130	120	110	100	NS	160	NS	260	NS	240
210	200	220	240	180	130	170	180	130	110	52	NS	110	NS	150	NS	190
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
12	10	11	ND	7	ND	ND	8	6	ND	ND	NS	ND	NS	ND	NS	5.4
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
61	6.2	35	19	ND	ND	28	14	ND	ND	13	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
110	72	31	46	30	19	14	27	23	13	7.9	NS	10	NS	13	NS	8.7
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	NS	ND	NS	NS	NS	10	NS	NS	NS	5.9	NS	NS	NS	ND	NS	NS
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	NS	24	NS	28	NS	18	NS	16	NS	10	NS	16	NS	11	NS	38
W-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-17s	NS	23	NS	22	NS	19	NS	15	NS	9.4	NS	21	NS	20	NS	25
W-18s	NS	48	NS	920	NS	250	NS	280	NS	100	NS	81	NS	71	NS	43
W-26s	NS	5.8	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	NS	490	NS	380	NS	320	NS	390	NS	310	NS	260	NS	240	NS	220
W-102s	NS	87	NS	95	NS	94	NS	160	NS	110	NS	44	NS	41	NS	69
W-103s	NS	150	NS	92	NS	120	NS	100	NS	68	NS	94	NS	65	NS	88
W-104s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-106s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-107s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-110s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-114s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-116s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-117s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-120s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-121s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-122s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-123s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-124s	NS	5	NS	5	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12s	NS	ND	NS	ND	NS	ND	NS	ND	NS	6	NS	ND	NS	ND	NS	ND
MW-16s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-23s	NS	5.4	NS	ND	NS	13	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
MW-33s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	26	0	11	NS	9.8	ND	NS	ND	14	NS	12	NS	14	NS	14	NS
NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	ND	NS
NS	40	0	33	NS	69	ND	NS	ND	35	NS	11	NS	9.3	NS	12	NS
NS	43	0	34	NS	37	ND	NS	ND	37	NS	41	NS	28	NS	43	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	190	NS	100	NS	120	73	NS	ND	77	NS	130	NS	140	NS	130	NS
NS	71	25	59	NS	48	22	NS	29	75	NS	69	NS	75	NS	70	NS
NS	71	4	59	NS	53	2	NS	2	72	NS	54	NS	54	NS	29	NS
NS	ND	0	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	0	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	42	ND	NS	ND	48	NS	27	ND	NS	ND	NS	ND	NS	ND	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	0	ND	NS	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS
NS	ND	NS	ND	NS	ND	5	NS	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Upper Unconfined System									
W-3	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-5s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-6s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-7s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-13s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-15s	40	NS	42	NS	32	NS	14	NS	7.6
W-16s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-17s	8.4	NS	10	NS	8.3	NS	12	NS	12
W-18s	57	NS	71	NS	23	NS	43	NS	33
W-26s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-28s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-29s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101s	150	NS	120	NS	130	NS	130	NS	1,300
W-102s	94	NS	77	NS	95	NS	70	NS	110
W-103s	48	NS	52	NS	44	NS	29	NS	47
W-104s	ND	NS	8.9	NS	ND	NS	NS	NS	ND
W-105s	ND	ND	NS	NS	ND	NS	NS	NS	ND
W-106s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-107s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-110s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-114s	ND	NS	ND	NS	ND	NS	NS	NS	ND
W-116s	ND	ND	NS	NS	ND	NS	NS	NS	ND
W-117s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-120s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-121s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-122s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-123s	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-124s	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-126s	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127s	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12s	ND	NS	ND	NS	ND	NS	ND	NS	ND
MW-16s	ND	NS	NS	NS	ND	NS	NS	NS	NS
MW-23s	ND	NS	ND	NS	ND	NS	ND	NS	ND
MW-33s	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-34s	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-38s	ND	NS	NS	NS	ND	NS	NS	NS	ND

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Upper Unconfined System																
K2s	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
K4sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K12s	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
Lower Unconfined System																
W-5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6d	NS	NS	NS	NS	NS	NS	NS	NS	NS	38	110	28	NS	61	120	120
W-7d	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,300	5,800	5,800	NS	7,100	7,500	7,800
W-13d	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.7	19	26	NS	16	28	18
W-15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	97	160	140	NS	65	99	79
W-16d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	56	120	NS	62	67	74
W-17d	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,200	2,500	2,000	NS	3,000	3,500	3,700
W-23d	NS	NS	NS	NS	NS	NS	NS	NS	NS	100	100	99	NS	76	96	73
W-26d	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,800	3,400	3,100	NS	2,300	2,600	2,400
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
W-101i	1,600	1,000	1,400	1,600	1,300	970	1,000	1,100	1,100	750	400	340	440	420	460	540
W-102i	9.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-103i	120	ND	950	ND	2,200	2,100	770	1,200	510	770	190	620	720	550	1,100	440
W-104i	7.5	9.4	ND	ND	ND	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-105i	330	41	ND	ND	11	12	ND	ND	ND	ND	5	10	11	11	12	12
W-106i	1,300	5,800	1,000	320	5,000	3,300	2,500	340	1,500	1,200	1,600	2,800	3,100	2,700	2,700	3,000
W-107i	700	600	1,800	1,300	2,200	780	840	690	480	440	520	470	430	280	270	280
W-110i	22	ND	21	16	55	47	32	5.3	27	19	29	29	26	22	25	18
W-114i	440	440	81	84	530	590	390	520	530	330	280	200	190	180	150	140
W-116i	ND	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-117i	46	110	13	19	130	130	61	100	NS	120	270	400	360	180	430	140
W-120i	49	160	40	51	230	150	120	180	110	39	110	100	100	63	84	91
W-121i	130	260	ND	20	140	130	59	85	34	21	58	55	63	48	59	57
W-122i	14	ND	ND	15	33	9.9	9.4	5.8	5	ND	10	6.7	7.2	6.2	7	5.8
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,100	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3,600	NS
OW 3	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
OW 9d	230	100	160	170	160	24	710	610	45	780	ND	ND	ND	ND	ND	ND

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS

NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
NS	100	140	100	NS	86	100	85	NS	68	100	NS	69	NS	110	NS	74
NS	8,700	7,300	7,800	NS	5,800	5,700	6,100	NS	5,600	4,500	NS	5,400	NS	8,600	NS	10,000
NS	26	19	22	NS	11	11	14	NS	6.6	12	NS	ND	NS	7.8	NS	6.9
NS	210	150	160	NS	74	82	71	NS	36	56	NS	52	NS	67	NS	61
NS	61	120	23	NS	12	12	8.8	NS	5.5	6.6	NS	11	NS	28	NS	21
NS	5,600	6,200	4,100	NS	2,600	2,000	3,000	NS	3,500	3,800	NS	1,500	NS	1,200	NS	3,400
NS	59	77	35	NS	35	44	63	NS	27	28	NS	ND	NS	ND	NS	ND
NS	2,400	3,300	2,800	NS	2,400	2,700	3,000	NS	3,200	2,500	NS	2,100	NS	3,000	NS	5,100
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
540	610	620	650	680	650	640	680	620	530	560	NS	600	NS	710	NS	720
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
160	180	140	100	130	89	93	76	94	110	100	NS	91	NS	99	NS	100
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
13	11	12	8.4	8.8	6.5	7.1	ND	ND	5.9	6.1	NS	NS	NS	ND	NS	NS
2,000	2,200	1,500	1,900	1,800	1,800	1,500	1,500	1,400	380	1,300	NS	920	NS	1,800	NS	1,100
200	250	210	190	170	160	150	100	120	94	110	NS	100	NS	95	NS	72
14	14	16	ND	16	11	ND	ND	10	8.1	10	NS	ND	6	7	8	11
98	140	120	110	94	100	74	68	60	52	34	NS	ND	27	32	30	46
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
200	230	360	88	79	84	120	78	57	200	150	NS	87	NS	110	NS	110
52	79	72	70	62	57	53	41	36	43	59	NS	ND	NS	51	NS	44
37	56	49	54	53	36	52	47	33	47	41	NS	45	NS	33	NS	50
5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4	NS	6.5	NS	10	NS	14
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	ND	NS	ND
ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	NS	ND	NS	ND	NS	ND

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Upper Unconfined System																
K2s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K12s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	ND	NS
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
Lower Unconfined System																
W-5d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-6d	NS	64	NS	56	NS	46	NS	57	NS	31	NS	45	NS	18	NS	25
W-7d	NS	7,700	NS	8,700	NS	8,400	NS	8,500	NS	6,400	NS	2,100	NS	4,900	NS	5,900
W-13d	NS	6.8	NS	7.2	NS	5.4	NS	5.4	NS	ND	NS	6.4	NS	ND	NS	ND
W-15d	NS	60	NS	57	NS	50	NS	55	NS	50	NS	65	NS	57	NS	69
W-16d	NS	16	NS	63	NS	7.5	NS	5.5	NS	ND	NS	ND	NS	ND	NS	5.1
W-17d	NS	3,300	NS	2,400	NS	2,100	NS	2,400	NS	1,600	NS	960	NS	440	NS	610
W-23d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-26d	NS	4,700	NS	4,100	NS	3,900	NS	4,200	NS	2,900	NS	3,800	NS	3,600	NS	3,800
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	NS	740	NS	1,100	NS	830	NS	1,200	NS	750	NS	1,100	NS	920	NS	1,100
W-102i	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-103i	NS	95	NS	87	NS	77	NS	92	NS	99	NS	90	NS	75	NS	85
W-104i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-105i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-106i	NS	2,100	NS	1,700	NS	1,200	NS	1,300	NS	980	NS	1,300	NS	810	NS	760
W-107i	NS	93	NS	68	NS	77	NS	61	NS	71	NS	68	NS	56	NS	42
W-110i	11	7	7	6	6	5	9	5	5	ND	ND	9	ND	ND	ND	ND
W-114i	53	63	40	64	47	ND	ND	36	33	ND	ND	26	60	31	35	38
W-116i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-117i	NS	410	NS	650	NS	80	NS	26	NS	310	NS	95	NS	48	NS	26
W-120i	NS	38	NS	47	NS	49	NS	37	NS	44	NS	48	NS	31	NS	54
W-121i	NS	51	NS	72	NS	77	NS	93	NS	69	NS	95	NS	83	NS	82
W-122i	NS	26	NS	28	NS	26	NS	30	NS	26	NS	29	NS	23	NS	32
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 9d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	NS

NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	NS
NS	33	NS	20	NS	14	ND	NS	ND	8.7	NS	18	NS	19	NS	9	NS
NS	7,400	29	8,000	NS	7,600	27	NS	NS	9,400	NS	8,200	NS	9,300	NS	8,900	NS
NS	5.3	0	5.0	NS	ND	ND	NS	ND	39	NS	ND	NS	ND	ND	ND	NS
NS	61	0	60	NS	38	ND	NS	ND	ND	NS	43	NS	50	NS	39	NS
NS	ND	0	ND	NS	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	560	4	1,600	NS	1,000	6	NS	11	500	NS	350	NS	370	NS	750	NS
NS	ND	25	ND	NS	0	23	NS	24	ND	NS	ND	NS	ND	NS	ND	NS
NS	3,700	11	3,900	NS	3,500	8	NS	10	3,600	NS	4,000	NS	3,400	NS	2,500	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	1,200	20	1,200	NS	1,200	120	NS	63	780	NS	870	NS	1,000	NS	710	NS
NS	ND	0	ND	NS	ND	ND	NS	ND	9.6	NS	ND	NS	ND	NS	ND	NS
NS	76	30	90	NS	68	18	NS	10	98	NS	82	NS	120	NS	57	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	560	150	550	NS	640	170	NS	190	310	NS	400	NS	300	NS	920	NS
NS	50	15	44	NS	43	13	NS	15	42	NS	30	NS	42	NS	28	NS
ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
31	29	38	8.1	22	32	39		36	41	38	ND	38	37	33	25	27
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	28	150	22	NS	18	110	NS	120	22	NS	20	NS	18	NS	14	NS
NS	39	13	42	NS	56	14	NS	19	49	NS	26	NS	21	NS	16	NS
NS	66	7	55	NS	61	7	NS	8	69	NS	83	NS	93	NS	110	NS
NS	42	3	49	NS	49	3	NS	3	44	NS	39	NS	37	NS	60	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	0	ND	NS	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	0	ND	NS	ND	ND	NS	3	ND	NS	ND	NS	ND	NS	ND	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Upper Unconfined System									
K2s	ND	NS	NS	NS	ND	NS	NS	NS	ND
K4s	NS	NS	NS	NS	NS	NS	NS	NS	NS
K4sR	ND	NS	NS	NS	ND	NS	NS	NS	ND
K12s	ND	NS	NS	NS	ND	NS	NS	NS	ND
K14s	NS	NS	NS	NS	NS	NS	NS	NS	NS
K14sR	NS	NS	NS	NS	NS	NS	NS	NS	NS
K32s	ND	NS	NS	NS	ND	NS	NS	NS	ND
Lower Unconfined System									
W-5d	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-6d	12	NS	ND	NS	13	NS	8.5	NS	15
W-7d	7,600	NS	8,100	NS	7,500	NS	8,900	NS	NS
W-13d	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-15d	56	NS	41	NS	43	NS	39	NS	51
W-16d	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-17d	520	NS	720	NS	690	NS	750	NS	1,200
W-23d	ND	NS	ND	ND	ND	NS	ND	NS	ND
W-26d	3,100	NS	2,300	NS	2,200	NS	2,500	NS	2,700
W-28d	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-101i	1,100	NS	1,100	NS	860	NS	710	NS	470
W-102i	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-103i	80	NS	92	NS	ND	NS	57	NS	27
W-104i	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-105i	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-106i	530	NS	830	NS	740	NS	920	NS	1,000
W-107i	30	NS	26	NS	25	NS	28	NS	31
W-110i	9.6	8.6	ND	ND	ND	ND	ND	ND	ND
W-114i	ND	ND	ND	36	ND	10	25	31	37
W-116i	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-117i	22	NS	29	NS	22	NS	14	NS	15
W-120i	19	NS	15	NS	18	NS	16	NS	17
W-121i	120	NS	120	NS	110	NS	110	NS	100
W-122i	47	NS	40	NS	68	NS	60	NS	63
W-126i	NS	NS	NS	NS	NS	NS	NS	NS	NS
W-127i	NS	NS	NS	NS	NS	NS	NS	NS	NS
OW 3	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 9d	ND	NS	ND	NS	ND	NS	ND	NS	5.4

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Well	Analytical Results (ug/L)															
	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Lower Unconfined System																
OW 12	8,300	6,700	6,800	6,500	9,000	7,600	7,900	6,900	7,000	4,600	5,600	5,700	5,700	4,500	2,700	3,400
OW 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	2,200	2,200	NS	2,300	2,500	2,700
OW 16	130	5.9	16	ND	14	15	8.9	9.2	ND	ND	ND	ND	ND	ND	ND	ND
OW 23	710	2,300	3,000	440	7,200	13,000	7,200	6,200	4,900	2,900	2,100	2,600	1,500	740	430	520
OW 29	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38i	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
K3d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
K5d	8.7	NS	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
K5dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K13d	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	NS	NS	NS	NS	NS	NS	NS	NS	1,900	1,700	2,100	NS	1,900	2,000	2,800
K31d	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TWA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	320	950	NS	1,200	1,400	1,300
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	NS	ND	NS	NS
UW1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,500	2,800	NS	3,100	3,500	3,200
Confined System																
W-35d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NS	ND	ND	ND
W-101d	160	12	58	58	39	ND	15	110	130	160	7	7	ND	ND	10	ND
W-102d	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W-123d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
W-124d	36	99	54	38	180	180	110	91	72	64	87	110	120	88	86	87
MW-12d	5.9	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-23d	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-33d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34d	NS	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS	NS
MW-38d	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
2,600	3,200	3,500	4,700	3,700	2,500	2,500	3,400	2,400	370	1,900	NS	2,900	NS	800	NS	830
NS	2,600	2,400	2,000	NS	1,900	1,800	2,000	NS	1,500	1,200	NS	1,300	NS	1,300	NS	2,100
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
310	520	530	540	410	390	300	290	290	290	280	NS	200	NS	90	NS	170
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND
NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	NS	NS
NS	2,400	2,800	2,800	NS	2,400	3,000	2,600	NS	3,000	2,500	NS	3,000	NS	14,000	NS	7,400
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
NS	1,300	1,100	550	NS	330	340	340	NS	180	200	NS	160	NS	120	NS	190
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	2,600	2,600	3,600	NS	4,300	6,600	11,000	NS	14,000	9,200	NS	10,000	NS	41,000	NS	11,000

NS	ND	ND	ND	NS	ND	ND	ND	NS	ND	ND	NS	NS	NS	ND	NS	NS
ND	ND	7	ND	7	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	6
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	NS	ND	NS	ND
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
71	80	64	42	44	25	22	29	21	16	25	NS	21	NS	18	NS	35
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
ND	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	ND	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS
ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

	Analytical Results (ug/L)															
Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Lower Unconfined System																
OW 12	NS	760	NS	1,100	NS	770	NS	660	NS	830	NS	1,600	NS	1,500	NS	880
OW 14	NS	1,900	NS	1,600	NS	1,000	NS	1,100	NS	840	NS	1,000	NS	920	NS	900
OW 16	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 23	NS	160	NS	83	NS	83	NS	80	NS	58	NS	77	NS	57	NS	59
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34i	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38i	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
K3d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K13d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	NS	7,100	NS	6,700	NS	8,000	NS	8,700	NS	6,100	NS	4,900	NS	6,300	NS	4,500
K31d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
TWA	NS	240	NS	92	NS	100	NS	160	NS	82	NS	190	NS	93	NS	150
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	NS	5,800	NS	7,000	NS	5,000	NS	5,400	NS	3,300	NS	4,300	NS	3,600	NS	3,800
Confined System																
W-35d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-101d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	14	NS	ND	NS	5.5
W-102d	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-123d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
W-124d	NS	40	NS	42	NS	33	NS	55	NS	53	NS	67	NS	62	NS	71
MW-12d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-16d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-23d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-33d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-34d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
MW-38d	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
NS	430	9	350	NS	1,100	17	NS	34	1,600	NS	550	NS	830	NS	800	NS
NS	770	29	1,100	NS	780	33	NS	24	720	NS	620	NS	470	NS	500	NS
NS	ND	0	ND	NS	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	42	0	60	NS	40	ND	NS	ND	41	NS	34	NS	27	NS	18	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	0	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	ND
NS	ND	0	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	0	ND	NS	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	ND	NS	NS	8	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	0	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	4,900	9	4,800	NS	3,400	9	NS	10	2,000	NS	1,800	NS	1,500	NS	1,800	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	20	0	120	NS	84	ND	NS	9	87	NS	120	NS	85	NS	78	NS
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	3,500	5	2,900	NS	2,300	5	0	2,300	2,200	NS	2,200	NS	3,600	NS	1,300	NS

NS	ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	ND	NS	ND	ND	NS	ND	ND	NS	ND	NS	7.8	NS	33.0	NS
NS	ND	0	ND	NS	ND	ND	NS	ND	ND	NS	ND	NS	ND	NS	ND	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	75	11	100	NS	67	9	NS	12	120	NS	98	NS	82	NS	430	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	NS
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	NS	NS	NS	ND	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	ND
NS	ND	0	NS	NS	14	NS	NS	ND	ND	NS	NS	NS	ND	NS	NS	ND
NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 5-5
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Monitoring Wells

	Analytical Results (ug/L)								
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Lower Unconfined System									
OW 12	610	NS	710	NS	920	NS	800	NS	970
OW 14	530	NS	640	NS	560	NS	500	NS	700
OW 16	ND	NS	ND	NS	ND	NS	ND	NS	ND
OW 23	23	NS	24	NS	22	NS	18	NS	21
OW 29	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33i	ND	NS	ND	NS	ND	NS	NS	NS	ND
MW-34i	ND	ND	ND	NS	ND	NS	NS	NS	ND
MW-38i	ND	NS	ND	NS	ND	NS	ND	NS	ND
K3d	ND	NS	NS	NS	ND	NS	NS	NS	ND
K5d	NS	NS	NS	NS	NS	NS	NS	NS	NS
K5dR	ND	ND	NS	NS	NS	NS	NS	NS	ND
K13d	ND	NS	ND	NS	ND	NS	NS	NS	ND
K15d	NS	NS	NS	NS	NS	NS	NS	NS	NS
K15dR	NS	NS	NS	NS	NS	NS	NS	NS	NS
K28d	1,100	NS	910	NS	920	NS	1,800	NS	810
K31d	ND	NS	NS	NS	ND	NS	NS	NS	ND
TWA	87	NS	100	NS	91	NS	78	NS	410
TWB	NS	NS	NS	NS	NS	NS	NS	NS	NS
UW1	5,200	NS	1,600	NS	3,500	NS	1,300	NS	2,800
Confined System									
W-35d	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-101d	ND	NS	ND	NS	ND	NS	33	NS	26
W-102d	ND	NS	ND	NS	ND	NS	ND	NS	ND
W-123d	ND	NS	NS	NS	ND	NS	NS	NS	ND
W-124d	370	NS	430	NS	450	NS	430	NS	540
MW-12d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-16d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-23d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-33d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-34d	ND	NS	NS	NS	ND	NS	NS	NS	ND
MW-38d	ND	ND	ND	NS	ND	NS	NS	NS	ND
TWF	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-6
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

	Analyte Results (ug/L)															
Well	Jan-96	Jun-96	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Dec-98	Mar-99	Jun-99	Sep-99	Dec-99
Extraction Wells																
EW-1	NS	NS	NS	390	680	550	480	460	370	200	300	410	290	240	260	210
EW-2	NS	NS	NS	4,700	3,600	3,600	3,500	260	3,800	2,300	2,700	3,300	3,300	2,900	2,600	3,100
EW-3	NS	NS	NS	2,500	2,800	2,600	2,400	1,400	1,300	ND	920	1,800	1,200	540	1,100	830
EW-4	NS	NS	NS	ND	95	7	57	70	66	99	250	280	390	350	350	430
EW-5	NS	NS	NS	370	450	420	170	450	310	210	320	320	320	260	240	320
EW-6	NS	NS	NS	31	110	NS	NS	NS	130	130	200	190	260	180	190	330
EW-6a	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-7	NS	NS	NS	72	38	250	ND	37	26	11	20	20	33	22	31	29
EW-8	NS	NS	NS	8,000	10,000	7,800	3,100	6,800	9,000	6,600	7,500	7,100	7,500	5,800	6,500	6,500
EW-9	NS	NS	NS	760	820	830	680	510	570	370	570	610	600	530	550	660
EW-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	12,000
EW-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

ND No compounds were detected in the sample from this well.
NS Well was not sampled during the quarter indicated.

Table 5-6
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Mar-00	Jun-00	Sep-00	Dec-00	Mar-01	Jun-01	Sep-01	Dec-01	Mar-02	Jun-02	Sep-02	Dec-02	Mar-03	Jun-03	Sep-03	Dec-03	Mar-04
140	190	200	150	150	110	95	120	100	73	120	130	77	68	63	71	60
1,900	2,200	2,600	2,300	1,100	1,800	1,300	1,800	1,500	1,800	1,700	1,400	1,300	1,100	1,100	1,100	1,100
390	540	450	370	180	240	210	180	210	160	260	290	210	200	240	270	300
300	340	340	280	300	310	410	330	370	190	180	210	140	140	160	170	200
260	400	400	380	360	330	320	350	250	260	310	360	310	300	380	290	290
140	220	260	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NS	NS	NS	260	270	230	190	230	140	170	210	210	10	150	170	150	180
27	32	34	35	38	29	32	21	19	21	29	31	30	26	24	43	41
6,500	5,600	5,900	5,700	4,200	3,600	3,100	2,700	2,100	2,800	2,400	3,900	2,000	2,600	7,600	3,100	2,800
540	52	700	570	620	530	480	500	600	68	500	520	430	480	420	530	490
7,000	5,400	5,800	5,100	3,300	3,800	3,500	3,300	5,300	3,200	2,300	2,400	2,100	2,400	2,500	2,200	2,900
NS	NS	NS	NS	NS	NS	5,900	4,200	5,300	4,100	3,000	4,300	3,100	3,500	6,000	3,900	3,900

Table 5-6
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Analyte Results (ug/L)

Well	Jun-04	Aug-04	Dec-04	Mar-05	Jun-05	Sep-05	Dec-05	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Mar-08
Extraction Wells																
EW-1	62	50	57	44	41	49	47	47	43	46	46	53	43	44	34	23
EW-2	1,000	990	980	1,000	1,100	840	1,000	930	960	930	950	1,100	1,000	1,000	750	810
EW-3	230	250	280	230	300	270	250	310	330	290	270	290	300	270	240	260
EW-4	200	190	200	210	230	190	210	230	240	190	220	250	240	210	230	210
EW-5	240	210	280	210	210	210	220	200	170	200	200	180	200	160	200	160
EW-6	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EW-6a	110	110	110	83	92	78	79	76	57	46	56	51	53	32	34	32
EW-7	46	26	43	36	23	28	39	41	34	21	37	38	38	30	36	28
EW-8	2,300	2,100	2,900	2,500	2,600	2,200	2,600	2,300	1,900	2,000	1,900	1,700	1,900	1,400	1,500	1,300
EW-9	480	450	510	420	380	400	480	500	480	440	490	470	450	400	470	440
EW-10	2,300	2,000	2,200	1,500	1,600	1,200	1,400	1,200	1,300	1,100	1,200	1,200	1,100	1,000	1,000	990
EW-11	3,300	3,200	3,600	2,800	3,100	2,600	2,600	2,700	2,600	2,400	2,200	2,300	2,200	2,500	2,500	2,500

ND No compounds were detected in the sample from this well.

NS Well was not sampled during the quarter indicated.

Table 5-6
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Apr-11	Jun-11	Sep-11	Dec-11	Mar-12	Jun-12
28	27	1	19	23	22	U	15	23	29	23	23	18	23	14	13	15
830	790	27	710	790	730	35	770	760	710	680	560	560	640	550	570	470
290	270	71	300	310	290	130	310	340	310	300	290	280	340	250	270	270
230	210	320	260	210	220	570	200	180	180	170	170	140	160	110	130	130
150	160	320	170	150	130	190	150	120	150	150	150	150	160	140	150	130
NS	NS	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
31	29	35	20	19	23	39	25	14	17	15	18	16	16	13	17	12
29	30	5	25	23	24	5	25	20	16	25	16	11	17	16	15	12
1,400	1,300	100	1,100	1,000	900	140	980	770	920	990	710	730	1,100	840	530	620
490	460	23	450	470	430	28	540	450	500	290	400	540	570	550	610	580
1,200	1,100	6	1,200	1,200	1,100	9	880	800	680	1,400	700	600	720	600	670	520
2,600	2,500	56	3,000	2,800	2,600	120	2,900	2,200	2,100	560	1,800	1,400	1,600	1,400	1,500	1,000

Table 5-6
Quarterly Groundwater Monitoring N,N'-Dimethylaniline Concentrations-Extraction Wells

Analyte Results (ug/L)									
Well	Sep-12	Dec-12	Mar-13	Jun-13	Sep-13	Dec-13	Apr-14	Jun-14	Sep-14
Extraction Wells									
EW-1	20	17	11	13	12	16	12	13	17
EW-2	570	500	520	500	600	500	520	570	620
EW-3	280	280	290	340	470	360	330	420	320
EW-4	110	140	140	120	160	140	140	120	150
EW-5	110	140	110	100	140	110	120	110	130
EW-6	NS	NS	7.5	0	NS	NS	NS	NS	9.0
EW-6a	12	12	11	11	10	9.0	8.5	13	NS
EW-7	14	16	11	10	10	11	11	8.9	9.4
EW-8	760	770	560	560	730	550	580	660	570
EW-9	570	540	530	620	550	450	490	350	340
EW-10	470	480	450	440	550	480	490	470	400
EW-11	1,600	1,200	900	940	960	820	940	820	920

Table 5-7
Total Organic Compound Concentrations Statistical Values

Well	Maximum Concentration, µg/L	Minimum Concentration, µg/L	Average Concentration[1], µg/L	Median Concentration, µg/L	Number of Samples
Upper Unconfined System					
W-3	ND	ND	ND	ND	1
W-5s	5	ND	1	ND	5
W-6s	ND	ND	ND	ND	5
W-7s	110	ND	16	9	27
W-13s	14	ND	2	ND	14
W-15s	47	5	19	15	38
W-16s	9	ND	1	ND	24
W-17s	8,989	326	2,139	1,042	38
W-18s	494,566	3,264	117,725	111,741	40
W-26s	23	ND	10	10	25
W-28s	ND	ND	ND	ND	5
W-29s	ND	ND	ND	ND	1
W-101s	775,104	24,934	225,242	240,253	53
W-102s	2,810	219	1,078	1,010	53
W-103s	1,008	83	441	430	51
W-104s	70	ND	8	ND	25
W-105s	433	ND	22	ND	27
W-106s	68	ND	7	ND	25
W-107s	76	ND	6	ND	24
W-110s	13	ND	3	1	26
W-114s	88	ND	9	ND	27
W-116s	35	ND	3	ND	26
W-117s	48	ND	3	ND	23
W-120s	44	ND	4	ND	25
W-121s	26	ND	3	ND	25
W-122s	21	ND	4	ND	25
W-123s	61	ND	5	ND	23
W-124s	26,468	226	3,275	943	53
W-126s	86,965	86,965	86,965	86,965	1
W-127s	6,421	ND	3,211	3,211	2
MW-12s	241	ND	20	ND	51
MW-23s	332	ND	28	11	51
MW-16s	624	ND	55	ND	23
MW-33s	12	ND	2	ND	10
MW-34s	74	ND	8	ND	24

Table 5-7
Total Organic Compound Concentrations Statistical Values

Well	Maximum Concentration, µg/L	Minimum Concentration, µg/L	Average Concentration[1], µg/L	Median Concentration, µg/L	Number of Samples
MW-38s	14	ND	2	ND	16
K2s	20	ND	1	ND	15
K4s	36	ND	8	7	25
K4sR	19	ND	1	ND	14
K12s	155	ND	25	10	22
K14s	ND	ND	ND	ND	1
K14sR	ND	ND	ND	ND	2
K32s	22	ND	4	ND	22
Lower Unconfined System					
W-5d	9	ND	2	ND	14
W-6d	151	9	60	58	38
W-7d	13,699	2,341	9,974	10,484	39
W-13d	61	ND	17	16	38
W-15d	270	38	87	68	38
W-16d	217	ND	39	11	37
W-17d	7,270	528	2,667	2,218	40
W-23d	1,451	113	475	361	38
W-26d	10,933	2,504	5,612	4,984	40
W-28d	13	ND	3	ND	4
W-101i	41,656	1,459	11,711	8,666	53
W-102i	216	6	74	52	51
W-103i	3,610	210	1,266	1,422	53
W-104i	102	ND	9	2	39
W-105i	1,081	ND	47	9	39
W-106i	14,013	457	3,662	3,496	51
W-107i	4,387	52	594	204	51
W-110i	2,335	123	1,086	988	74
W-114i	15,805	267	7,698	6,706	74
W-116i	205	6	45	32	39
W-117i	3,763	62	1,621	1,350	50
W-120i	1,219	65	491	492	51
W-121i	573	59	199	197	51
W-122i	926	20	118	91	51
W-126i	26,059	26,059	26,059	26,059	1
W-127i	9,407	9,407	9,407	9,407	1
OW 3	70	ND	10	5	37

Table 5-7
Total Organic Compound Concentrations Statistical Values

Well	Maximum Concentration, µg/L	Minimum Concentration, µg/L	Average Concentration[1], µg/L	Median Concentration, µg/L	Number of Samples
OW 9d	5,790	15	477	90	53
OW 12	44,945	430	5,852	3,442	51
OW 14	7,200	735	2,911	2,130	40
OW 16	1,281	1	104	49	51
OW 23	37,939	28	4,433	334	51
MW-33i	18	ND	5	ND	11
MW-34i	34	ND	6	6	28
MW-38i	44	3	10	7	38
K3d	56	ND	12	9	26
K5d	156	ND	22	7	12
K5dR	19	ND	7	8	11
K13d	64	ND	9	5	25
K15d	70	70	70	70	1
K15dR	ND	ND	ND	ND	2
K28d	14,522	1,021	4,154	3,403	38
K31d	88	ND	14	3	38
TWA	2,736	123	647	236	37
TWB	22	ND	14	19	3
UW1	43,848	1,891	6,950	4,923	39
Confined System					
W-35d	27	ND	7	ND	24
W-101d	57,016	13,718	25,899	26,694	53
W-102d	91	ND	6	ND	51
W-123d	58	ND	17	12	25
W-124d	720	65	254	200	53
MW-12d	144	ND	8	ND	39
MW-23d	124	ND	18	4	25
MW-16d	18	ND	3	ND	25
MW-33d	23	ND	5	1	16
MW-34d	70	ND	9	4	25
MW-38d	59	ND	10	7	20
TWF	ND	ND	ND	ND	2
Extraction Wells					
EW-1	1,166	24	196	75	72
EW-2	9,573	716	2,396	1,631	72
EW-3	20,078	626	2,862	1,560	72

Table 5-7
Total Organic Compound Concentrations Statistical Values

Well	Maximum Concentration, µg/L	Minimum Concentration, µg/L	Average Concentration[1], µg/L	Median Concentration, µg/L	Number of Samples
EW-4	8,997	582	3,746	3,395	72
EW-5	5,308	537	2,070	1,843	72
EW-6	865	232	640	662	16
EW-6a	1,303	ND	748	731	56
EW-7	464	ND	161	155	72
EW-8	39,402	3,356	12,654	8,224	72
EW-9	1,848	574	1,315	1,319	72
EW-10	23,324	1,662	6,170	4,362	60
EW-11	12,754	814	5,581	5,222	53

Legend

ND = No compounds were detected.

Notes

[1]Averages were calculated based on all non-detect results having a value equal to zero (0).

Appendix A

Static Water Level Measurements

And Summary of Extraction Well Flow Rates

for October, 2014

Static Water Level Measurements for Ott/Story/Cordova Groundwater Treatment Facility

Well ID	Type	Top of Casing Elevation	October 10, 2014	
			Depth to Water	Static Water Elevation
W-101s	M	650.08	10.84	639.24
W-101i	M	650.25	10.17	640.08
W-101d	M	649.68	8.25	641.43
W-102s	M	646.80	14.15	632.65
W-102i	M	647.04	10.60	636.44
W-102d	M	645.63	7.59	638.04
OW-9d	M	644.64	8.39	636.25
W-124d	M	644.38	8.17	636.21
W-124s	M	644.06	11.66	632.40
MW-34s	M	629.99	21.17	608.82
MW-34i	M	630.30	19.49	610.81
MW-34d	M	630.48	4.92	625.56
MW-16s	M	626.53	17.00	609.53
OW-16	M	626.84	15.28	611.56
MW-16d	M	626.33	1.72	624.61
W-111s	P	638.43	27.52	610.91
W-111i	P	638.35	27.82	610.53
W-108s	P	639.94	29.10	610.84
W-108i	P	639.98	30.50	609.48
W-109s	P	638.14	27.65	610.49
W-109i	P	638.17	28.22	609.95
W-110s	M	637.98	27.80	610.18
W-110i	M	636.08	27.46	608.62
W-112s	P	638.32	27.04	611.28
W-112i	P	638.11	25.84	[illegible]
W-126i	M	646.93	9.60	637.33
W-127s	M	647.41	8.91	638.50
W-127i	M	647.42	9.44	637.98
TWF	M	643.23	6.00	637.23
W17s	M	650.70	12.92	637.78
W17d	M	650.66	13.30	637.36
UW1	M	648.30	12.05	636.25
EW-6	E	636.17	39.15	597.02

* Reading taken from RW-6a-W satellite/rehabilitation well.
N/A = Not available; N/T = Not taken
P = Piezometer used for groundwater level measurements only, no groundwater samples are collected from this well.
M = Monitoring well used for both quarterly groundwater monitoring and groundwater level measurements.
E = Extraction well
All measurements are recorded to the nearest 0.01 foot.
Static water level measurements for the RW-1 through RW-9 wells are collected in the filter pack piezometer.
Static water level measurements for the EW-1 through EW-9 wells are collected from the sounding tube in the extraction well casing.

OTT STORY CORDOVA SUPERFUND SITE, N. MUSKEGON, MI
SEPTEMBER, 2014
EXTRACTION WELL FLOW RATES

DATE	EW-1	EW-2	EW-3	EW-4	EW-5	*EW-6 EW-6a	EW-7	EW-8	EW-9	EW-10	EW-11	Total	
Design Flow Unit	100 (GPM)	100 (GPM)	100 (GPM)	100 (GPM)	75 (GPM)	75 (GPM)	75 (GPM)	140 (GPM)	35 (GPM)	40 (GPM)	40 (GPM)	880 (GPM)	Comments
Sep/01/14	88	0	93	86	69	65	85	50	30	47	52	665	EW-2 Tripped Off
Sep/02/14	88	0	93	86	69	65	85	50	30	47	52	665	
Sep/03/14	77	100	87	84	68	61	83	50	30	47	50	737	
Sep/04/14	78	99	85	84	67	60	82	50	30	47	50	732	
Sep/05/14	78	99	85	84	68	61	83	50	30	47	51	736	
Sep/06/14	78	99	85	84	68	61	83	50	30	47	51	736	
Sep/07/14	78	99	85	84	68	61	83	50	30	47	51	736	
Sep/08/14	78	99	83	84	68	60	83	50	30	46	50	731	
Sep/09/14	77	98	83	84	67	61	83	50	30	47	50	730	
Sep/10/14	78	99	85	85	70	0	84	50	30	47	51	679	EW-6, 6a Off - Rehab EW-6
Sep/11/14	77	99	87	85	70	0	84	50	30	47	52	681	
Sep/12/14	77	99	85	85	70	0	84	50	30	46	50	676	
Sep/13/14	77	99	85	85	70	0	84	50	30	46	50	676	
Sep/14/14	77	99	85	85	70	0	84	50	30	46	50	676	
Sep/15/14	77	98	86	85	70	0	84	50	30	47	50	677	
Sep/16/14	79	101	90	88	0	0	0	50	30	52	51	541	EW-6 Pump Test
Sep/17/14	79	101	89	88	0	0	0	50	30	52	52	541	
Sep/18/14	78	99	85	85	71	0	86	50	30	52	50	686	EW-6 Tripped Off
Sep/19/14	75	97	83	84	68	74	84	50	30	52	50	747	
Sep/20/14	75	97	83	84	68	74	84	50	30	52	50	747	
Sep/21/14	75	97	83	84	68	74	84	50	30	52	50	747	
Sep/22/14	76	97	83	84	68	72	85	50	30	52	51	748	
Sep/23/14	76	98	85	83	68	71	84	50	30	53	52	750	
Sep/24/14	77	100	86	85	70	0	85	50	30	52	51	686	EW-6a Pump Test
Sep/25/14	77	100	85	85	70	0	86	50	30	52	51	686	
Sep/26/14	79	102	91	87	0	0	0	50	30	52	52	543	EW-5, 7 Off For EW-6a PT
Sep/27/14	78	102	91	86	0	0	0	50	30	52	52	541	EW-5, 6, 7 Restarted Today
Sep/28/14	78	102	0	85	72	70	86	50	30	52	52	677	EW-3 Off - Rehab
Sep/29/14	78	103	0	85	72	70	86	50	30	53	51	678	
Sep/30/14	78	103	0	86	71	70	86	50	30	52	52	678	

*EW-6 was restarted on July 15, 2010. The pumping rate in this column is from both EW-6 and EW-6a.

Date Printed 11/14/2014

Samples Collected and Analyzed By:
Fishbeck, Thompson, Carr and Huber

OTT STORY CORDOVA SUPERFUND SITE, N. MUSKEGON, MI
OCTOBER, 2014
EXTRACTION WELL FLOW RATES

DATE	EW-1	EW-2	EW-3	EW-4	EW-5	*EW-6 EW-6a	EW-7	EW-8	EW-9	EW-10	EW-11	Total	
Design Flow Unit	100 (GPM)	100 (GPM)	100 (GPM)	100 (GPM)	75 (GPM)	75 (GPM)	75 (GPM)	140 (GPM)	35 (GPM)	40 (GPM)	40 (GPM)	880 (GPM)	Comments
Oct/01/14	79	103	0	85	71	74	86	50	30	52	51	681	EW-3 Off Rehab
Oct/02/14	79	104	0	85	71	74	85	49	30	52	51	680	
Oct/03/14	78	103	0	85	71	74	85	49	30	52	51	678	
Oct/04/14	78	103	0	85	71	74	85	49	30	52	51	678	
Oct/05/14	78	103	0	85	71	74	85	49	30	52	51	678	
Oct/06/14	78	103	0	86	70	74	84	49	30	52	51	677	
Oct/07/14	78	103	0	86	70	74	84	49	30	52	51	677	
Oct/08/14	76	103	0	88	73	74	85	50	30	52	52	683	
Oct/09/14	88	0	0	0	75	77	85	50	30	52	51	508	EW-2,4 Off. EW-3 Pump Test
Oct/10/14	0	114	0	88	73	75	83	50	30	52	51	616	EW-1 Off RW Rehab
Oct/11/14	83	100	98	84	0	74	82	50	30	52	50	703	EW-5 Off Rehab
Oct/12/14	83	100	98	84	0	74	82	50	30	52	50	703	
Oct/13/14	83	0	112	87	0	74	82	49	30	52	50	619	EW-2 Off RW Rehab
Oct/14/14	80	106	0	87	0	75	82	50	30	51	51	612	EW-3 Off RW Rehab
Oct/15/14	79	105	0	87	0	75	82	50	30	51	51	610	
Oct/16/14	80	108	0	0	0	0	85	50	30	51	51	455	EW-4, 6 Off.EW-5 Pump Test
Oct/17/14	73	99	107	85	0	72	80	50	30	51	51	698	
Oct/18/14	73	99	107	85	0	72	80	50	30	51	51	698	
Oct/19/14	73	99	107	85	0	72	80	50	30	51	51	698	
Oct/20/14	74	98	107	85	0	72	80	50	30	51	51	698	
Oct/21/14	79	104	0	87	0	74	81	50	30	51	52	608	EW-3 Off RW Rehab
Oct/22/14	75	100	110	0	0	73	81	49	30	51	51	620	EW-4 Off RW Rehab
Oct/23/14	72	96	105	84	79	70	78	49	30	51	50	764	
Oct/24/14	0	0	0	0	87	76	83	49	30	51	51	427	EW-1 Pump Test
Oct/25/14	0	0	0	0	87	76	83	49	30	51	51	427	
Oct/26/14	86	96	103	84	77	69	77	49	30	51	51	773	
Oct/27/14	86	96	103	84	77	69	77	49	30	51	51	773	
Oct/28/14	87	98	106	86	0	72	78	50	30	51	51	709	EW-5 Off RW Rehab
Oct/29/14	87	98	106	85	0	72	78	51	30	51	51	709	
Oct/30/14	85	96	104	84	77	69	77	50	30	51	52	775	
Oct/31/14	85	96	103	84	76	70	76	50	30	51	51	772	

*EW-6 was restarted on July 15, 2010. The pumping rate in this column is from both EW-6 and EW-6a.

*EW-6a has been off since September 10, 2014.

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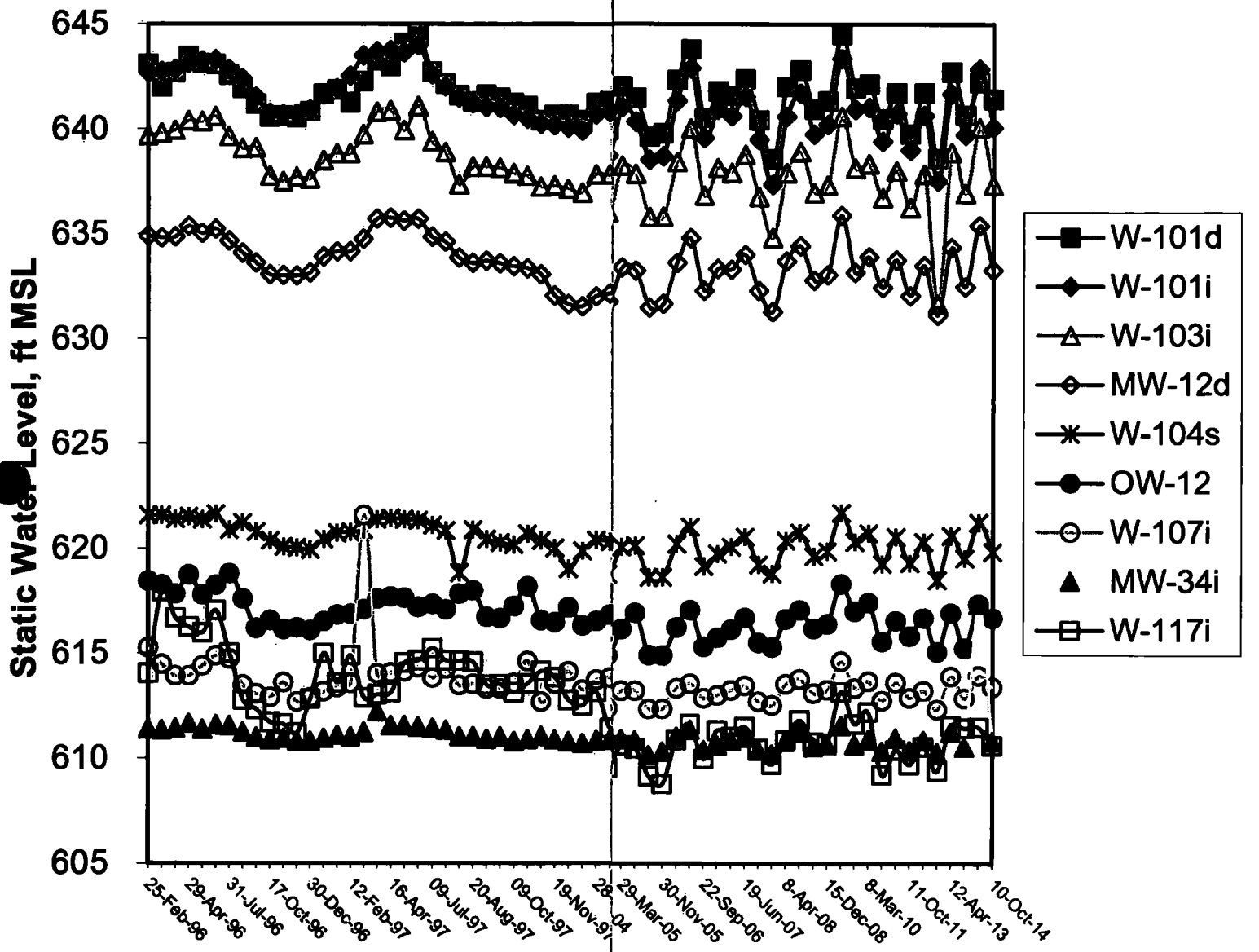
Samples Collected and Analyzed By:
Fishbeck, Thompson, Carr and Huber


645
640
635
630
625
620
615
610
605
Static Water Level, ft MSL
25-Feb-96
29-Apr-96
31-Jul-96
17-Oct-96
30-Dec-96
12-Feb-97
16-Apr-97
09-Jul-97
20-Aug-97
09-Oct-97
19-Nov-97
28-04
29-Mar-05
30-Nov-05
22-Sep-06
19-Jun-07
8-Apr-08
15-Dec-08
8-Mar-10
11-Oct-11
12-Apr-13
10-Oct-14
W-101d
W-101i
W-103i
MW-12d
W-104s
OW-12
W-107i
MW-34i
W-117i

Appendix B

Detection Frequency Report for the Seventy-fifth Quarter of Groundwater Monitoring

Appendix B
Ott/Story/Cordova Superfund Site
Detection Frequency for the 75th Quarter of Groundwater Monitoring (September 2014)
Units: µg/L

Compound	Number of Samples	Number of Detections	Percent of Samples	Maximum Detection	Minimum Detection	Average Detection
SW-846 8260						
1,1,1-TRICHLOROETHANE	92	5	5%	120	1.4	46
1,1,2-TRICHLOROETHANE	92	1	1%	1.2	1.2	1.2
1,1-DICHLOROETHANE	92	20	22%	270	1.2	27
1,1-DICHLOROETHENE	92	18	20%	34	1.2	7.9
1,2-DICHLOROBENZENE	92	15	16%	5800	5.5	790
1,2-DICHLOROETHANE	92	20	22%	650	1.3	60
1,3-DICHLOROBENZENE	92	9	10%	36	2.7	11
1,4-DICHLOROBENZENE	92	12	13%	450	3.2	86
BENZENE	92	34	37%	480	1.4	59
CARBON TETRACHLORIDE	92	2	2%	100	9.6	55
CHLOROBENZENE	92	25	27%	200	1.7	36
CHLOROETHANE	92	20	22%	170	1.3	22
CHLOROFORM	92	9	10%	30	1.1	7.7
CIS-1,2-DICHLOROETHENE	92	15	16%	200	1.0	59
ETHYLBENZENE	92	10	11%	110	1.0	17
TETRACHLOROETHENE	92	6	7%	47000	2.1	10533
TETRAHYDROFURAN	92	27	29%	1300	6.0	210
TOLUENE	92	26	28%	3600	1.2	200
TRANS-1,2-DICHLOROETHENE	92	9	10%	12	1.0	3.7
TRICHLOROETHENE	92	11	12%	1700	1.0	282
VINYL CHLORIDE	92	23	25%	200	1.0	31
XYLENE (TOTAL)	92	6	7%	510	15.0	112
SW-846 8270						
NAPHTHALENE	92	1	1%	16	16	16
2-METHYLNAPHTHALENE	92	2	2%	14	5.4	9.7
ANILINE	92	21	23%	5000	5.4	422
CAMPHOR	92	24	26%	1200	11	126
BIS(2-ETHYLHEXYL)PHTHALATE	92	11	12%	27	5.1	11
DI-N-BUTYLPHTHALATE	92	2	2%	33	11	22
N-ETHYLANILINE	92	32	35%	2300	7.1	143
N-METHYLANILINE	92	34	37%	310	5.4	53
N,N-DIMETHYLANILINE	92	39	42%	2800	5.4	436
TETRAMETHYLUREA	92	7	8%	12	5.8	7.7

Appendix C

Summary of Compounds Detected in Groundwater Samples for Seventy-fifth Quarter of Groundwater Monitoring and Comparison to the Michigan Residential Groundwater Drinking Values.

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
W-7s-0914	W-7s	BIS(2-ETHYLHEXYL)PHTHALATE	0		6	UG/L	17
W-15s-0914	W-15s	N,N-DIMETHYLANILINE	7.6		16	UG/L	7.6
W-17s-0914	W-17s	1,2-DICHLOROBENZENE	300	D	600	UG/L	
W-17s-0914	W-17s	1,3-DICHLOROBENZENE	9.0		6.6	UG/L	
W-17s-0914	W-17s	1,4-DICHLOROBENZENE	52		75	UG/L	
W-17s-0914	W-17s	CHLOROBENZENE	180		100	UG/L	
W-17s-0914	W-17s	N,N-DIMETHYLANILINE	12		16	UG/L	
W-17s-0914	W-17s	N-METHYLANILINE	5.6		NA	UG/L	559
W-18s-0914	W-18s	1,2-DICHLOROBENZENE	72		600	UG/L	
W-18s-0914	W-18s	CHLOROBENZENE	14		100	UG/L	
W-18s-0914	W-18s	ETHYLBENZENE	24		74	UG/L	
W-18s-0914	W-18s	TOLUENE	3,600	D	790	UG/L	
W-18s-0914	W-18s	XYLENE (TOTAL)	33		280	UG/L	
W-18s-0914	W-18s	N,N-DIMETHYLANILINE	33		16	UG/L	
W-18s-0914	W-18s	N-METHYLNAPHTHALENE	14		260	UG/L	
W-18s-0914	W-18s	NAPHTHALENE	16		520	UG/L	3,806
W-26s-0914	W-26s	CHLOROFORM	1.1		80	UG/L	1.1
W-35d-0914	W-35d	BIS(2-ETHYLHEXYL)PHTHALATE	27		6	UG/L	27
W-101s-0914	W-101s	1,2-DICHLOROBENZENE	4,400	D	600	UG/L	
W-101s-0914	W-101s	1,4-DICHLOROBENZENE	450	D	75	UG/L	
W-101s-0914	W-101s	1,3-DICHLOROBENZENE	36	D	6.6	UG/L	
W-101s-0914	W-101s	CHLOROFORM	10	D	80	UG/L	
W-101s-0914	W-101s	CIS-1,2-DICHLOROETHENE	62	D	70	UG/L	
W-101s-0914	W-101s	ETHYLBENZENE	110	D	74	UG/L	
W-101s-0914	W-101s	TETRACHLOROETHENE	16000	D	5	UG/L	
W-101s-0914	W-101s	TOLUENE	16	D	790	UG/L	
W-101s-0914	W-101s	TRICHLOROETHENE	1700	D	5	UG/L	
W-101s-0914	W-101s	XYLENE (TOTAL)	510	D	280	UG/L	
W-101s-0914	W-101s	N,N-DIMETHYLANILINE	1300	D	16	UG/L	
W-101s-0914	W-101s	N-ETHYLANILINE	2,300	D	NA	UG/L	26,894
W-102s-0914	W-102s	1,2-DICHLOROBENZENE	62		600	UG/L	
W-102s-0914	W-102s	1,3-DICHLOROBENZENE	10		6.6	UG/L	
W-102s-0914	W-102s	1,4-DICHLOROBENZENE	36		75	UG/L	
W-102s-0914	W-102s	BENZENE	29		5	UG/L	
W-102s-0914	W-102s	CHLOROBENZENE	72		100	UG/L	
W-102s-0914	W-102s	ETHYLBENZENE	1.0		74	UG/L	
W-102s-0914	W-102s	N,N-DIMETHYLANILINE	110		16	UG/L	
W-102s-0914	W-102s	N-ETHYLANILINE	76		NA	UG/L	
W-102s-0914	W-102s	N-METHYLANILINE	29		NA	UG/L	425
W-103s-0914	W-103s	1,2-DICHLOROBENZENE	16		600	UG/L	
W-103s-0914	W-103s	1,4-DICHLOROBENZENE	8.1		75	UG/L	
W-103s-0914	W-103s	BENZENE	2.3		5	UG/L	
W-103s-0914	W-103s	CHLOROBENZENE	36		100	UG/L	
W-103s-0914	W-103s	ETHYLBENZENE	2.3		74	UG/L	

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
W-103s-0914	W-103s	TRICHLOROETHENE	1.2		5	UG/L	
W-103s-0914	W-103s	N,N-DIMETHYLANILINE	47		16	UG/L	
W-103s-0914	W-103s	N-METHYLANILINE	5.5		NA	UG/L	118
W-105s-0914	W-105s	BIS(2-ETHYLHEXYL)PHTHALATE	0.0		6	UG/L	5.9
W-110s-0914	W-110s	BIS(2-ETHYLHEXYL)PHTHALATE	0.0		6	UG/L	7.4
W-120s-0914	W-120s	BIS(2-ETHYLHEXYL)PHTHALATE	0.0		6	UG/L	5.6
W-124s-0914	W-124s	1,2-DICHLOROBENZENE	50		600	UG/L	
W-124s-0914	W-124s	1,3-DICHLOROBENZENE	4.9		6.6	UG/L	
W-124s-0914	W-124s	1,4-DICHLOROBENZENE	22		75	UG/L	
W-124s-0914	W-124s	BENZENE	27		5	UG/L	
W-124s-0914	W-124s	CHLOROBENZENE	110		100	UG/L	
W-124s-0914	W-124s	ETHYLBENZENE	3.2		74	UG/L	
W-124s-0914	W-124s	N-ETHYLANILINE	9.1		NA	UG/L	226
K-3d-0914	K-3d	DI-N-BUTYLPHTHALATE	33		880	UG/L	33
K-12s-0914	K-12s	TOLUENE	1.2		790	UG/L	1.2
K-13d-0914	K-13d	TOLUENE	1.9		790	UG/L	1.9
K-28d-0914	K28d	1,1-DICHLOROETHANE	3.4		880	UG/L	
K-28d-0914	K28d	1,1-DICHLOROETHENE	3.0		7	UG/L	
K-28d-0914	K28d	1,2-DICHLOROETHANE	110		5	UG/L	
K-28d-0914	K28d	BENZENE	9.7		5	UG/L	
K-28d-0914	K28d	VINYL CHLORIDE	5.8		2	UG/L	
K-28d-0914	K28d	CAMPHOR	0		NA	UG/L	
K-28d-0914	K28d	N,N-DIMETHYLANILINE	810	D	16	UG/L	
K-28d-0914	K28d	N-ETHYLANILINE	40		NA	UG/L	
K-28d-0914	K28d	N-METHYLANILINE	25		NA	UG/L	1,007
K-31d-0914	K-31d	1,2-DICHLOROETHANE	10		5	UG/L	10
K-32s-0914	K-32s	CHLOROFORM	4.3		80	UG/L	4.3
MW-38i-0914	MW-38i	1,2-DICHLOROETHANE	2.8		5	UG/L	2.8
OW-9d-0914	OW-9d	1,1-DICHLOROETHANE	4.7		880	UG/L	
OW-9d-0914	OW-9d	BENZENE	3.1		5	UG/L	
OW-9d-0914	OW-9d	CHLOROETHANE	9.0		430	UG/L	
OW-9d-0914	OW-9d	TETRAHYDROFURAN	160		95	UG/L	
OW-9d-0914	OW-9d	TOLUENE	5.4		790	UG/L	
OW-9d-0914	OW-9d	VINYL CHLORIDE	1.8		2	UG/L	
OW-9d-0914	OW-9d	ANILINE	34		53	UG/L	
OW-9d-0914	OW-9d	CAMPHOR	68		NA	UG/L	
OW-9d-0914	OW-9d	N,N-DIMETHYLANILINE	5.4		16	UG/L	
OW-9d-0914	OW-9d	N-METHYLANILINE	48		NA	UG/L	339
OW-12-0914	OW-12	1,1-DICHLOROETHANE	16		880	UG/L	
OW-12-0914	OW-12	1,1-DICHLOROETHENE	2.3		7	UG/L	

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
OW-12-0914	OW-12	1,2-DICHLOROETHANE	140		5	UG/L	
OW-12-0914	OW-12	BENZENE	34		5	UG/L	
OW-12-0914	OW-12	CHLOROBENZENE	2.4		100	UG/L	
OW-12-0914	OW-12	VINYL CHLORIDE	96		2	UG/L	
OW-12-0914	OW-12	ANILINE	16		53	UG/L	
OW-12-0914	OW-12	CAMPHOR	13		NA	UG/L	
OW-12-0914	OW-12	N,N-DIMETHYLANILINE	970	D	16	UG/L	
OW-12-0914	OW-12	N-ETHYLANILINE	150	D	NA	UG/L	
OW-12-0914	OW-12	N-METHYLANILINE	52		NA	UG/L	1,492
OW-14-0914	OW-14	1,1-DICHLOROETHANE	20		880	UG/L	
OW-14-0914	OW-14	1,1-DICHLOROETHENE	13		7	UG/L	
OW-14-0914	OW-14	1,2-DICHLOROETHANE	17		5	UG/L	
OW-14-0914	OW-14	BENZENE	24		5	UG/L	
OW-14-0914	OW-14	CHLOROBENZENE	2.4		100	UG/L	
OW-14-0914	OW-14	CHLOROETHANE	3.1		430	UG/L	
OW-14-0914	OW-14	CIS-1,2-DICHLOROETHENE	2.1		70	UG/L	
OW-14-0914	OW-14	TETRAHYDROFURAN	29		95	UG/L	
OW-14-0914	OW-14	TOLUENE	4.0		790	UG/L	
OW-14-0914	OW-14	VINYL CHLORIDE	96		2	UG/L	
OW-14-0914	OW-14	ANILINE	24		53	UG/L	
OW-14-0914	OW-14	CAMPHOR	51		NA	UG/L	
OW-14-0914	OW-14	N,N-DIMETHYLANILINE	700	D	16	UG/L	
OW-14-0914	OW-14	N-ETHYLANILINE	89		NA	UG/L	
OW-14-0914	OW-14	N-METHYLANILINE	78		NA	UG/L	1,153
OW-16-0914	OW-16	TETRAHYDROFURAN	18		95	UG/L	18
OW-23-0914	OW-23	CHLOROBENZENE	3.9		100	UG/L	
OW-23-0914	OW-23	N,N-DIMETHYLANILINE	21		16	UG/L	
OW-23-0914	OW-23	N-METHYLANILINE	5.4		NA	UG/L	30
TW-A-0914	TWA	1,2-DICHLOROETHANE	10		5	UG/L	
TW-A-0914	TWA	1,1-DICHLOROETHENE	3.7		7	UG/L	
TW-A-0914	TWA	1,2-DICHLOROETHANE	14		5	UG/L	
TW-A-0914	TWA	BENZENE	9.0		5	UG/L	
TW-A-0914	TWA	CHLOROBENZENE	4.4		100	UG/L	
TW-A-0914	TWA	TETRAHYDROFURAN	12		95	UG/L	
TW-A-0914	TWA	TOLUENE	3.2		790	UG/L	
TW-A-0914	TWA	VINYL CHLORIDE	61		2	UG/L	
TW-A-0914	TWA	CAMPHOR	36		NA	UG/L	
TW-A-0914	TWA	N,N-DIMETHYLANILINE	410	D	16	UG/L	
TW-A-0914	TWA	N-ETHYLANILINE	55		NA	UG/L	
TW-A-0914	TWA	N-METHYLANILINE	25		NA	UG/L	643
UW-1-0914	UW1	1,1-DICHLOROETHANE	2.2		880	UG/L	
UW-1-0914	UW1	1,1-DICHLOROETHENE	34		7	UG/L	
UW-1-0914	UW1	1,2-DICHLOROBENZENE	280	D	600	UG/L	
UW-1-0914	UW1	1,2-DICHLOROETHANE	19		5	UG/L	
UW-1-0914	UW1	1,3-DICHLOROBENZENE	5.9		6.6	UG/L	
UW-1-0914	UW1	1,4-DICHLOROBENZENE	35		75	UG/L	
UW-1-0914	UW1	BENZENE	7.1		5	UG/L	
UW-1-0914	UW1	CHLOROBENZENE	4.4		100	UG/L	

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
UW-1-0914	UW1	CIS-1,2-DICHLOROETHENE	**120**		70	UG/L	
UW-1-0914	UW1	ETHYLBENZENE	5.2		74	UG/L	
UW-1-0914	UW1	TETRACHLOROETHENE	2.5		5	UG/L	
UW-1-0914	UW1	TETRAHYDROFURAN	11		95	UG/L	
UW-1-0914	UW1	TOLUENE	2.8		790	UG/L	
UW-1-0914	UW1	TRANS-1,2-DICHLOROETHENE	7.6		100	UG/L	
UW-1-0914	UW1	TRICHLOROETHENE	**19**		5	UG/L	
UW-1-0914	UW1	VINYL CHLORIDE	**13**		2	UG/L	
UW-1-0914	UW1	XYLENE (TOTAL)	15		280	UG/L	
UW-1-0914	UW1	ANILINE	5.4		53	UG/L	
UW-1-0914	UW1	CAMPHOR	36		NA	UG/L	
UW-1-0914	UW1	N,N-DIMETHYLANILINE	**2,800**	D	16	UG/L	
UW-1-0914	UW1	N-ETHYLANILINE	39		NA	UG/L	
UW-1-0914	UW1	N-METHYLANILINE	25		NA	UG/L	3,489
W-101I-0914	W-101I	1,1,1-TRICHLOROETHANE	1.4		200	UG/L	
W-101I-0914	W-101I	1,1-DICHLOROETHANE	270	D	880	UG/L	
W-101I-0914	W-101I	1,1-DICHLOROETHENE	1.2		7	UG/L	
W-101I-0914	W-101I	1,2-DICHLOROETHANE	**7.1**		5	UG/L	
W-101I-0914	W-101I	BENZENE	**63**		5	UG/L	
W-101I-0914	W-101I	CHLOROBENZENE	1.9		100	UG/L	
W-101I-0914	W-101I	CHLOROETHANE	53		430	UG/L	
W-101I-0914	W-101I	TETRAHYDROFURAN	51		95	UG/L	
W-101I-0914	W-101I	TOLUENE	70		790	UG/L	
W-101I-0914	W-101I	VINYL CHLORIDE	**6.9**		2	UG/L	
W-101I-0914	W-101I	CAMPHOR	420	D	NA	UG/L	
W-101I-0914	W-101I	N,N-DIMETHYLANILINE	**470**	D	16	UG/L	
W-101I-0914	W-101I	N-ETHYLANILINE	26		NA	UG/L	
W-101I-0914	W-101I	N-METHYLANILINE	0		NA	UG/L	1,442
W-102I-0914	W-102I	VINYL CHLORIDE	**9.8**		2	UG/L	9.8
W-103I-0914	W-103I	BENZENE	**9.6**		5	UG/L	
W-103I-0914	W-103I	TETRAHYDROFURAN	**1,300**	D	95	UG/L	
W-103I-0914	W-103I	TOLUENE	5.0		790	UG/L	
W-103I-0914	W-103I	CAMPHOR	24		NA	UG/L	
W-103I-0914	W-103I	N,N-DIMETHYLANILINE	**27**		16	UG/L	
W-103I-0914	W-103I	N-ETHYLANILINE	9.1		NA	UG/L	
W-103I-0914	W-103I	N-METHYLANILINE	5.6		NA	UG/L	
W-103I-0914	W-103I	TETRAMETHYLUREA	5.8		NA	UG/L	1,386
W-105I-0914	W-105I	1,2-DICHLOROETHANE	2.4		5	UG/L	2.4
W-106I-0914	W-106I	1,1-DICHLOROETHANE	20		880	UG/L	
W-106I-0914	W-106I	1,1-DICHLOROETHENE	2.5		7	UG/L	
W-106I-0914	W-106I	BENZENE	**190**	D	5	UG/L	
W-106I-0914	W-106I	CHLOROBENZENE	4.9		100	UG/L	
W-106I-0914	W-106I	CHLOROETHANE	6.9		430	UG/L	
W-106I-0914	W-106I	TETRAHYDROFURAN	31		95	UG/L	
W-106I-0914	W-106I	TOLUENE	4.1		790	UG/L	
W-106I-0914	W-106I	VINYL CHLORIDE	**11**		2	UG/L	
W-106I-0914	W-106I	ANILINE	17		53	UG/L	
W-106I-0914	W-106I	CAMPHOR	140		NA	UG/L	

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
W-106I-0914	W-106I	N,N-DIMETHYLANILINE	**1000**	D	16	UG/L	
W-106I-0914	W-106I	N-ETHYLANILINE	160		NA	UG/L	
W-106I-0914	W-106I	N-METHYLANILINE	150		NA	UG/L	1,737
W-107I-0914	W-107I	BENZENE	**15**		5	UG/L	
W-107I-0914	W-107I	CHLOROETHANE	1.3		430	UG/L	
W-107I-0914	W-107I	ANILINE	17		53	UG/L	
W-107I-0914	W-107I	N,N-DIMETHYLANILINE	**31**		16	UG/L	
W-107I-0914	W-107I	N-ETHYLANILINE	7.1		NA	UG/L	
W-107I-0914	W-107I	N-METHYLANILINE	12		NA	UG/L	83
W-110I-0914	W-110I	BENZENE	3.6		5	UG/L	
W-110I-0914	W-110I	CHLOROETHANE	15		430	UG/L	
W-110I-0914	W-110I	TETRAHYDROFURAN	**820**	D	95	UG/L	
W-110I-0914	W-110I	ANILINE	5.8		53	UG/L	
W-110I-0914	W-110I	CAMPHOR	180		NA	UG/L	
W-110I-0914	W-110I	N-METHYLANILINE	12		NA	UG/L	
W-110I-0914	W-110I	N-METHYLANILINE	0		NA	UG/L	
W-110I-0914	W-110I	TETRAMETHYLUREA	8.5		NA	UG/L	1,045
W-114I-0914	W-114I	BENZENE	**480**	D	5	UG/L	
W-114I-0914	W-114I	CHLOROBENZENE	5.4		100	UG/L	
W-114I-0914	W-114I	CHLOROETHANE	170		430	UG/L	
W-114I-0914	W-114I	TETRAHYDROFURAN	**850**	D	95	UG/L	
W-114I-0914	W-114I	TOLUENE	4.6		790	UG/L	
W-114I-0914	W-114I	TRANS-1,2-DICHLOROETHENE	2.4		100	UG/L	
W-114I-0914	W-114I	ANILINE	**5,000**	D	53	UG/L	
W-114I-0914	W-114I	CAMPHOR	1,200	D	NA	UG/L	
W-114I-0914	W-114I	N,N-DIMETHYLANILINE	**37**		16	UG/L	
W-114I-0914	W-114I	N-ETHYLANILINE	45		NA	UG/L	
W-114I-0914	W-114I	N-METHYLANILINE	94		NA	UG/L	
W-114I-0914	W-114I	TETRAMETHYLUREA	12		NA	UG/L	7,900
W-116I-0914	W-116I	TETRAHYDROFURAN	150		95	UG/L	
W-116I-0914	W-116I	VINYL CHLORIDE	1.0		2	UG/L	151
W-117I-0914	W-117I	BENZENE	**120**		5	UG/L	
W-117I-0914	W-117I	CHLOROBENZENE	1.7		100	UG/L	
W-117I-0914	W-117I	CHLOROETHANE	12		430	UG/L	
W-117I-0914	W-117I	TETRAHYDROFURAN	**740**	D	95	UG/L	
W-117I-0914	W-117I	TOLUENE	1.6		790	UG/L	
W-117I-0914	W-117I	TRANS-1,2-DICHLOROETHENE	1.0		100	UG/L	
W-117I-0914	W-117I	ANILINE	**1,300**	D	53	UG/L	
W-117I-0914	W-117I	CAMPHOR	64		NA	UG/L	
W-117I-0914	W-117I	N,N-DIMETHYLANILINE	15		16	UG/L	
W-117I-0914	W-117I	N-ETHYLANILINE	310	D	NA	UG/L	
W-117I-0914	W-117I	N-METHYLANILINE	85		NA	UG/L	
W-117I-0914	W-117I	TETRAMETHYLUREA	8.5		NA	UG/L	2,659
W-120I-0914	W-120I	BENZENE	**19**		5	UG/L	
W-120I-0914	W-120I	CHLOROETHANE	7.2		430	UG/L	
W-120I-0914	W-120I	TETRAHYDROFURAN	**860**	D	95	UG/L	
W-120I-0914	W-120I	ANILINE	88		53	UG/L	

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
W-120i-0914	W-120i	N,N-DIMETHYLANILINE	17		16	UG/L	
W-120i-0914	W-120i	N-ETHYLANILINE	47		NA	UG/L	
W-120i-0914	W-120i	N-METHYLANILINE	35		NA	UG/L	
W-120i-0914	W-120i	TETRAMETHYLUREA	0.0		NA	UG/L	1,073
W-121i-0914	W-121i	BENZENE	7.6		5	UG/L	
W-121i-0914	W-121i	CHLOROBENZENE	2		100	UG/L	
W-121i-0914	W-121i	CHLOROETHANE	3.5		430	UG/L	
W-121i-0914	W-121i	TETRAHYDROFURAN	49		95	UG/L	
W-121i-0914	W-121i	N,N-DIMETHYLANILINE	100		16	UG/L	
W-121i-0914	W-121i	N-ETHYLANILINE	55		NA	UG/L	
W-121i-0914	W-121i	N-METHYLANILINE	0.0		NA	UG/L	217
W-122i-0914	W-122i	1,1-DICHLOROETHANE	1.2		880	UG/L	
W-122i-0914	W-122i	1,1-DICHLOROETHENE	2.1		7	UG/L	
W-122i-0914	W-122i	BENZENE	3.1		5	UG/L	
W-122i-0914	W-122i	CHLOROETHANE	2.0		430	UG/L	
W-122i-0914	W-122i	TETRAHYDROFURAN	11		95	UG/L	
W-122i-0914	W-122i	VINYL CHLORIDE	1.4		2	UG/L	
W-122i-0914	W-122i	N,N-DIMETHYLANILINE	63		16	UG/L	
W-122i-0914	W-122i	N-ETHYLANILINE	22		NA	UG/L	106
W-5d-0914	W-5d	BIS(2-ETHYLHEXYL)PHTHALATE	0.0		NA	UG/L	5.1
W-6d-0914	W-6d	CHLOROFORM	5.4		80	UG/L	
W-6d-0914	W-6d	N,N-DIMETHYLANILINE	15		16	UG/L	20
W-15d-0914	W-15d	N,N-DIMETHYLANILINE	0		16	UG/L	51
W-16d-0914	W-16d	1,2-DICHLOROETHANE	1.3		5	UG/L	1.3
W-17d-0914	W-17d	1,1-DICHLOROETHENE	7.5		7	UG/L	
W-17d-0914	W-17d	1,1-DICHLOROETHANE	8.1		880	UG/L	
W-17d-0914	W-17d	1,2-DICHLOROBENZENE	80		600	UG/L	
W-17d-0914	W-17d	1,2-DICHLOROETHANE	650	D	5	UG/L	
W-17d-0914	W-17d	1,3-DICHLOROBENZENE	2.7		6.6	UG/L	
W-17d-0914	W-17d	1,4-DICHLOROBENZENE	27		75	UG/L	
W-17d-0914	W-17d	BENZENE	11		5	UG/L	
W-17d-0914	W-17d	CIS-1,2-DICHLOROETHENE	1.2		70	UG/L	
W-17d-0914	W-17d	TETRAHYDROFURAN	16		95	UG/L	
W-17d-0914	W-17d	VINYL CHLORIDE	30		2	UG/L	
W-17d-0914	W-17d	ANILINE	0		53	UG/L	
W-17d-0914	W-17d	CAMPHOR	0		NA	UG/L	
W-17d-0914	W-17d	N,N-DIMETHYLANILINE	1200	D	16	UG/L	
W-17d-0914	W-17d	N-ETHYLANILINE	0		NA	UG/L	
W-17d-0914	W-17d	N-METHYLANILINE	57		NA	UG/L	2,091
W-23d-0914	W-23d	BENZENE	24		5	UG/L	
W-23d-0914	W-23d	CHLOROFORM	30		80	UG/L	
W-23d-0914	W-23d	TETRAHYDROFURAN	33		95	UG/L	
W-23d-0914	W-23d	DI-N-BUTYLPHTHALATE	11		880	UG/L	
W-23d-0914	W-23d	N-METHYLANILINE	9.0		NA	UG/L	
W-23d-0914	W-23d	TETRAMETHYLUREA	5.9		NA	UG/L	113

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
W-26d-0914	W-26d	1,1-DICHLOROETHANE	4.9		880	UG/L	
W-26d-0914	W-26d	1,1-DICHLOROETHENE	5.8		7	UG/L	
W-26d-0914	W-26d	1,2-DICHLOROETHANE	140		5	UG/L	
W-26d-0914	W-26d	BENZENE	9.8		5	UG/L	
W-26d-0914	W-26d	CHLOROBENZENE	7.4		100	UG/L	
W-26d-0914	W-26d	CIS-1,2-DICHLOROETHENE	15		70	UG/L	
W-26d-0914	W-26d	TOLUENE	30		790	UG/L	
W-26d-0914	W-26d	TRANS-1,2-DICHLOROETHENE	1.4		100	UG/L	
W-26d-0914	W-26d	TRICHLOROETHENE	13		5	UG/L	
W-26d-0914	W-26d	VINYL CHLORIDE	12		2	UG/L	
W-26d-0914	W-26d	BIS(2-ETHYLHEXYL)PHTHALATE	18		6	UG/L	
W-26d-0914	W-26d	CAMPHOR	38		NA	UG/L	
W-26d-0914	W-26d	N,N-DIMETHYLANILINE	2,700	D	16	UG/L	
W-26d-0914	W-26d	N-ETHYLANILINE	103		NA	UG/L	
W-26d-0914	W-26d	N-METHYLANILINE	9.6		NA	UG/L	3,108
W-35d-0914	W-35d	BIS(2-ETHYLHEXYL)PHTHALATE	27		6	UG/L	27
W-101d-0914	W-101d	1,2-DICHLOROBENZENE	5,800	D	600	UG/L	
W-101d-0914	W-101d	1,4-DICHLOROBENZENE	270	D	75	UG/L	
W-101d-0914	W-101d	CIS-1,2-DICHLOROETHENE	200	D	70	UG/L	
W-101d-0914	W-101d	TETRACHLOROETHENE	47,000	D	5	UG/L	
W-101d-0914	W-101d	TOLUENE	46	D	790	UG/L	
W-101d-0914	W-101d	TRANS-1,2-DICHLOROETHENE	12	D	100	UG/L	
W-101d-0914	W-101d	TRICHLOROETHENE	1300	D	5	UG/L	
W-101d-0914	W-101d	VINYL CHLORIDE	37	D	2	UG/L	
W-101d-0914	W-101d	N,N-DIMETHYLANILINE	26		16	UG/L	
W-101d-0914	W-101d	N-ETHYLANILINE	15		NA	UG/L	54,706
W-123d-0914	W-123d	TETRAHYDROFURAN	52		95	UG/L	
W-123d-0914	W-123d	BIS(2-ETHYLHEXYL)PHTHALATE	5.9		6	UG/L	58
W-124d-0914	W-124d	1,1-DICHLOROETHANE	4.2		880	UG/L	
W-124d-0914	W-124d	1,2-DICHLOROETHANE	8.8		5	UG/L	
W-124d-0914	W-124d	BENZENE	12		5	UG/L	
W-124d-0914	W-124d	CHLOROETHANE	1.6		430	UG/L	
W-124d-0914	W-124d	CIS-1,2-DICHLOROETHENE	2.1		70	UG/L	
W-124d-0914	W-124d	TETRAHYDROFURAN	41		95	UG/L	
W-124d-0914	W-124d	VINYL CHLORIDE	8.1		2	UG/L	
W-124d-0914	W-124d	CAMPHOR	15		NA	UG/L	
W-124d-0914	W-124d	N,N-DIMETHYLANILINE	540	D	16	UG/L	
W-124d-0914	W-124d	N-ETHYLANILINE	62		NA	UG/L	
W-124d-0914	W-124d	N-METHYLANILINE	25		NA	UG/L	720
MW-23d-0914	MW-23d	TOLUENE	1.5		790	UG/L	1.5
MW-34s-0914	MW-34S	CHLOROFORM	4.8		80	UG/L	
MW-34s-0914	MW-34S	BIS(2-ETHYLHEXYL)PHTHALATE	0.0		NA	UG/L	11
MW-38d-0914	MW-38d	TOLUENE	1.5		790	UG/L	
MW-38d-0914	MW-38d	BIS(2-ETHYLHEXYL)PHTHALATE	5.1		NA	UG/L	6.6

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
EW-1-0914	EW-1	1,2-DICHLOROETHANE	3.0		5	UG/L	
EW-1-0914	EW-1	BENZENE	1.4		5	UG/L	
EW-1-0914	EW-1	ANILINE	5.9		53	UG/L	
EW-1-0914	EW-1	N,N-DIMETHYLANILINE	17		16	UG/L	
EW-1-0914	EW-1	N-METHYLANILINE	13		NA	UG/L	40
EW-2-0914	EW-2	1,1-DICHLOROETHANE	7.0		880	UG/L	
EW-2-0914	EW-2	1,1-DICHLOROETHENE	4.0		7	UG/L	
EW-2-0914	EW-2	1,2-DICHLOROBENZENE	7.0		600	UG/L	
EW-2-0914	EW-2	1,2-DICHLOROETHANE	4.9		5	UG/L	
EW-2-0914	EW-2	BENZENE	30		5	UG/L	
EW-2-0914	EW-2	CHLOROBENZENE	8.9		100	UG/L	
EW-2-0914	EW-2	CIS-1,2-DICHLOROETHENE	8.2		70	UG/L	
EW-2-0914	EW-2	TETRAHYDROFURAN	6.8		95	UG/L	
EW-2-0914	EW-2	TRANS-1,2-DICHLOROETHENE	1.6		100	UG/L	
EW-2-0914	EW-2	TOLUENE	21		790	UG/L	
EW-2-0914	EW-2	TRICHLOROETHENE	2.4		5	UG/L	
EW-2-0914	EW-2	VINYL CHLORIDE	11		2	UG/L	
EW-2-0914	EW-2	ANILINE	14		53	UG/L	
EW-2-0914	EW-2	CAMPHOR	28		NA	UG/L	
EW-2-0914	EW-2	N,N-DIMETHYLANILINE	620	D	16	UG/L	
EW-2-0914	EW-2	N-ETHYLANILINE	52		NA	UG/L	
EW-2-0914	EW-2	N-METHYLANILINE	68		NA	UG/L	895
EW-3-0914	EW-3	1,1-DICHLOROETHANE	10		880	UG/L	
EW-3-0914	EW-3	1,1-DICHLOROETHENE	9.2		7	UG/L	
EW-3-0914	EW-3	1,2-DICHLOROBENZENE	12		600	UG/L	
EW-3-0914	EW-3	1,4-DICHLOROBENZENE	3.2		75	UG/L	
EW-3-0914	EW-3	BENZENE	98		5	UG/L	
EW-3-0914	EW-3	CHLOROBENZENE	12		100	UG/L	
EW-3-0914	EW-3	CHLOROETHANE	6.0		430	UG/L	
EW-3-0914	EW-3	CIS-1,2-DICHLOROETHENE	6.7		70	UG/L	
EW-3-0914	EW-3	TETRAHYDROFURAN	13		95	UG/L	
EW-3-0914	EW-3	TOLUENE	33		790	UG/L	
EW-3-0914	EW-3	VINYL CHLORIDE	7.4		2	UG/L	
EW-3-0914	EW-3	ANILINE	120	D	53	UG/L	
EW-3-0914	EW-3	CAMPHOR	58	D	NA	UG/L	
EW-3-0914	EW-3	N,N-DIMETHYLANILINE	320	D	16	UG/L	
EW-3-0914	EW-3	N-ETHYLANILINE	51	D	NA	UG/L	
EW-3-0914	EW-3	N-METHYLANILINE	60	D	NA	UG/L	820
EW-4-0914	EW-4	1,1,1-TRICHLOROETHANE	3.9		200	UG/L	
EW-4-0914	EW-4	1,1-DICHLOROETHANE	31		880	UG/L	
EW-4-0914	EW-4	1,1-DICHLOROETHENE	9.5		7	UG/L	
EW-4-0914	EW-4	1,2-DICHLOROBENZENE	5.5		600	UG/L	
EW-4-0914	EW-4	BENZENE	310	D	5	UG/L	
EW-4-0914	EW-4	CHLOROBENZENE	24		100	UG/L	
EW-4-0914	EW-4	CHLOROETHANE	100		430	UG/L	
EW-4-0914	EW-4	CIS-1,2-DICHLOROETHENE	16		70	UG/L	
EW-4-0914	EW-4	ETHYLBENZENE	1.3		74	UG/L	
EW-4-0914	EW-4	TETRAHYDROFURAN	82		95	UG/L	
EW-4-0914	EW-4	TOLUENE	28		790	UG/L	
EW-4-0914	EW-4	VINYL CHLORIDE	8.8		2	UG/L	

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
EW-4-0914	EW-4	ANILINE	440	D	53	UG/L	
EW-4-0914	EW-4	CAMPHOR	320	D	NA	UG/L	
EW-4-0914	EW-4	N,N-DIMETHYLANILINE	150	D	16	UG/L	
EW-4-0914	EW-4	N-ETHYLANILINE	230	D	NA	UG/L	
EW-4-0914	EW-4	N-METHYLANILINE	73		NA	UG/L	1,833
EW-5-0914	EW-5	1,1-DICHLOROETHANE	5.9		880	UG/L	
EW-5-0914	EW-5	1,1-DICHLOROETHENE	2.9		7	UG/L	
EW-5-0914	EW-5	BENZENE	250	D	5	UG/L	
EW-5-0914	EW-5	CHLOROBENZENE	20		100	UG/L	
EW-5-0914	EW-5	CHLOROETHANE	8.7		430	UG/L	
EW-5-0914	EW-5	CIS-1,2-DICHLOROETHENE	160		70	UG/L	
EW-5-0914	EW-5	TETRAHYDROFURAN	77	D	95	UG/L	
EW-5-0914	EW-5	TOLUENE	62		790	UG/L	
EW-5-0914	EW-5	TRANS-1,2-DICHLOROETHENE	1.5		100	UG/L	
EW-5-0914	EW-5	TRICHLOROETHENE	2.2		5	UG/L	
EW-5-0914	EW-5	VINYL CHLORIDE	20		2	UG/L	
EW-5-0914	EW-5	ANILINE	460	D	53	UG/L	
EW-5-0914	EW-5	CAMPHOR	87		NA	UG/L	
EW-5-0914	EW-5	N,N-DIMETHYLANILINE	130	D	16	UG/L	
EW-5-0914	EW-5	N-ETHYLANILINE	97		NA	UG/L	
EW-5-0914	EW-5	N-METHYLANILINE	53		NA	UG/L	1,437
EW-6-0914	EW-6	BENZENE	38		5	UG/L	
EW-6-0914	EW-6	CHLOROBENZENE	25		100	UG/L	
EW-6-0914	EW-6	CHLOROETHANE	2.8		430	UG/L	
EW-6-0914	EW-6	TETRAHYDROFURAN	180	D	95	UG/L	
EW-6-0914	EW-6	TOLUENE	1.2		790	UG/L	
EW-6-0914	EW-6	ANILINE	330	D	53	UG/L	
EW-6-0914	EW-6	CAMPHOR	11		NA	UG/L	
EW-6-0914	EW-6	N,N-DIMETHYLANILINE	9.0		16	UG/L	
EW-6-0914	EW-6	N-ETHYLANILINE	47		NA	UG/L	
EW-6-0914	EW-6	N-METHYLANILINE	35		NA	UG/L	
EW-6-0914	EW-6	TETRAMETHYLUREA	5.8		NA	UG/L	685
EW-7-0914	EW-7	1,2-DICHLOROETHANE	8.6		5	UG/L	
EW-7-0914	EW-7	BENZENE	3.7		5	UG/L	
EW-7-0914	EW-7	TETRAHYDROFURAN	42		95	UG/L	
EW-7-0914	EW-7	N,N-DIMETHYLANILINE	9.4		16	UG/L	
EW-7-0914	EW-7	N-ETHYLANILINE	14		NA	UG/L	
EW-7-0914	EW-7	N-METHYLANILINE	11		NA	UG/L	89
EW-8-0914	EW-8	1,1,1-TRICHLOROETHANE	120		200	UG/L	
EW-8-0914	EW-8	1,1,2-TRICHLOROETHANE	1.2		5	UG/L	
EW-8-0914	EW-8	1,1-DICHLOROETHANE	61		880	UG/L	
EW-8-0914	EW-8	1,1-DICHLOROETHENE	15		7	UG/L	
EW-8-0914	EW-8	1,2-DICHLOROBENZENE	230	D	600	UG/L	
EW-8-0914	EW-8	1,2-DICHLOROETHANE	15		5	UG/L	
EW-8-0914	EW-8	1,3-DICHLOROBENZENE	5.0		6.6	UG/L	
EW-8-0914	EW-8	1,4-DICHLOROBENZENE	40		75	UG/L	
EW-8-0914	EW-8	BENZENE	87		5	UG/L	
EW-8-0914	EW-8	CHLOROBENZENE	200	D	100	UG/L	
EW-8-0914	EW-8	CHLOROETHANE	25		430	UG/L	

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
EW-8-0914	EW-8	CHLOROFORM	1.4		80	UG/L	
EW-8-0914	EW-8	CIS-1,2-DICHLOROETHENE	170		70	UG/L	
EW-8-0914	EW-8	ETHYLBENZENE	11		74	UG/L	
EW-8-0914	EW-8	TETRACHLOROETHENE	4.8		5	UG/L	
EW-8-0914	EW-8	TETRAHYDROFURAN	6.0		95	UG/L	
EW-8-0914	EW-8	TOLUENE	1100	D	790	UG/L	
EW-8-0914	EW-8	TRANS-1,2-DICHLOROETHENE	4.6		100	UG/L	
EW-8-0914	EW-8	TRICHLOROETHENE	9.3		5	UG/L	
EW-8-0914	EW-8	VINYL CHLORIDE	36		2	UG/L	
EW-8-0914	EW-8	XYLENE (TOTAL)	40		280	UG/L	
EW-8-0914	EW-8	ANILINE	400	D	53	UG/L	
EW-8-0914	EW-8	CAMPHOR	96		NA	UG/L	
EW-8-0914	EW-8	N,N-DIMETHYLANILINE	570	D	16	UG/L	
EW-8-0914	EW-8	N-ETHYLANILINE	120		NA	UG/L	
EW-8-0914	EW-8	N-METHYLANILINE	130	D	NA	UG/L	3,498
EW-9-0914	EW-9	1,1-DICHLOROETHANE	11		880	UG/L	
EW-9-0914	EW-9	1,1-DICHLOROETHENE	14		7	UG/L	
EW-9-0914	EW-9	1,2-DICHLOROETHANE	1.5		5	UG/L	
EW-9-0914	EW-9	BENZENE	18		5	UG/L	
EW-9-0914	EW-9	CHLOROBENZENE	2.5		100	UG/L	
EW-9-0914	EW-9	CHLOROETHANE	4.6		430	UG/L	
EW-9-0914	EW-9	CIS-1,2-DICHLOROETHENE	1.0		70	UG/L	
EW-9-0914	EW-9	TETRAHYDROFURAN	35		95	UG/L	
EW-9-0914	EW-9	TOLUENE	19		790	UG/L	
EW-9-0914	EW-9	TRICHLOROETHENE	1.0		5	UG/L	
EW-9-0914	EW-9	VINYL CHLORIDE	200	D	2	UG/L	
EW-9-0914	EW-9	ANILINE	32		53	UG/L	
EW-9-0914	EW-9	CAMPHOR	27		NA	UG/L	
EW-9-0914	EW-9	N,N-DIMETHYLANILINE	340	D	16	UG/L	
EW-9-0914	EW-9	N-ETHYLANILINE	68		NA	UG/L	
EW-9-0914	EW-9	N-METHYLANILINE	79		NA	UG/L	854
EW-10-0914	EW-10	1,1,1-TRICHLOROETHANE	54		200	UG/L	
EW-10-0914	EW-10	1,1-DICHLOROETHANE	17		880	UG/L	
EW-10-0914	EW-10	1,1-DICHLOROETHENE	3.8		7	UG/L	
EW-10-0914	EW-10	1,2-DICHLOROBENZENE	220	D	600	UG/L	
EW-10-0914	EW-10	1,2-DICHLOROETHANE	37		5	UG/L	
EW-10-0914	EW-10	1,3-DICHLOROBENZENE	11		6.6	UG/L	
EW-10-0914	EW-10	1,4-DICHLOROBENZENE	33		75	UG/L	
EW-10-0914	EW-10	BENZENE	5.8		5	UG/L	
EW-10-0914	EW-10	CARBON TETRACHLORIDE	100		5	UG/L	
EW-10-0914	EW-10	CHLOROBENZENE	32		100	UG/L	
EW-10-0914	EW-10	CHLOROETHANE	7.6		430	UG/L	
EW-10-0914	EW-10	CHLOROFORM	7.9		80	UG/L	
EW-10-0914	EW-10	CIS-1,2-DICHLOROETHENE	100		70	UG/L	
EW-10-0914	EW-10	ETHYLBENZENE	7.9		74	UG/L	
EW-10-0914	EW-10	TETRACHLOROETHENE	190		5	UG/L	
EW-10-0914	EW-10	TOLUENE	67		790	UG/L	
EW-10-0914	EW-10	TRANS-1,2-DICHLOROETHENE	1.2		100	UG/L	
EW-10-0914	EW-10	TRICHLOROETHENE	46		5	UG/L	
EW-10-0914	EW-10	VINYL CHLORIDE	32		2	UG/L	
EW-10-0914	EW-10	XYLENE (TOTAL)	58		280	UG/L	

Appendix C
Detected Compounds
Seventy-fifth Quarterly Groundwater Monitoring Event
September 2014

Sample Number	Location	Compound	Result*	Qual	Standard**	Units	Total Concentrat
EW-10-0914	EW-10	2-METHYLNAPHTHALENE	5.4		260	UG/L	
EW-10-0914	EW-10	ANILINE	**100**		53	UG/L	
EW-10-0914	EW-10	CAMPHOR	24		NA	UG/L	
EW-10-0914	EW-10	N,N-DIMETHYLANILINE	**400**	D	16	UG/L	
EW-10-0914	EW-10	N-ETHYLANILINE	72		NA	UG/L	
EW-10-0914	EW-10	N-METHYLANILINE	150	D	NA	UG/L	1,783
EW-11-0914	EW-11	1,1,1-TRICHLOROETHANE	52		200	UG/L	
EW-11-0914	EW-11	1,1-DICHLOROETHANE	28		880	UG/L	
EW-11-0914	EW-11	1,1-DICHLOROETHENE	**9.0**		7	UG/L	
EW-11-0914	EW-11	1,2-DICHLOROBENZENE	**320**	D	600	UG/L	
EW-11-0914	EW-11	1,2-DICHLOROETHANE	**16**		5	UG/L	
EW-11-0914	EW-11	1,3-DICHLOROBENZENE	**14**		6.6	UG/L	
EW-11-0914	EW-11	1,4-DICHLOROBENZENE	54		75	UG/L	
EW-11-0914	EW-11	BENZENE	**55**		5	UG/L	
EW-11-0914	EW-11	CARBON TETRACHLORIDE	**9.6**		5	UG/L	
EW-11-0914	EW-11	CHLOROBENZENE	130		100	UG/L	
EW-11-0914	EW-11	CHLOROETHANE	9.2		430	UG/L	
EW-11-0914	EW-11	CHLOROFORM	4.2		80	UG/L	
EW-11-0914	EW-11	CIS-1,2-DICHLOROETHENE	28		70	UG/L	
EW-11-0914	EW-11	ETHYLBENZENE	4.6		74	UG/L	
EW-11-0914	EW-11	TETRACHLOROETHENE	2.1		5	UG/L	
EW-11-0914	EW-11	TOLUENE	76		790	UG/L	
EW-11-0914	EW-11	TRICHLOROETHENE	2.7		5	UG/L	
EW-11-0914	EW-11	VINYL CHLORIDE	**17**		2	UG/L	
EW-11-0914	EW-11	XYLENE (TOTAL)	17		280	UG/L	
EW-11-0914	EW-11	ANILINE	**450**	D	53	UG/L	
EW-11-0914	EW-11	CAMPHOR	49		NA	UG/L	
EW-11-0914	EW-11	N,N-DIMETHYLANILINE	**920**	D	16	UG/L	
EW-11-0914	EW-11	N-ETHYLANILINE	120		NA	UG/L	
EW-11-0914	EW-11	N-METHYLANILINE	310	D	NA	UG/L	2,697

*Results that exceed the Michigan Residential Groundwater Health-Based Drinking Water Values are bolded.

**Michigan Residential Groundwater Health-Based Drinking Water Values, MDEQ RRD Operational Memorandum 1, December 10, 2004, updated January 23, 2006. Values were not available from Operational Memorandum 1 for those compounds where NA is listed.

Appendix D

Trend Graphs for Total Organic Concentrations

Appendix D
Trend Graphs for Total Organic Concentrations
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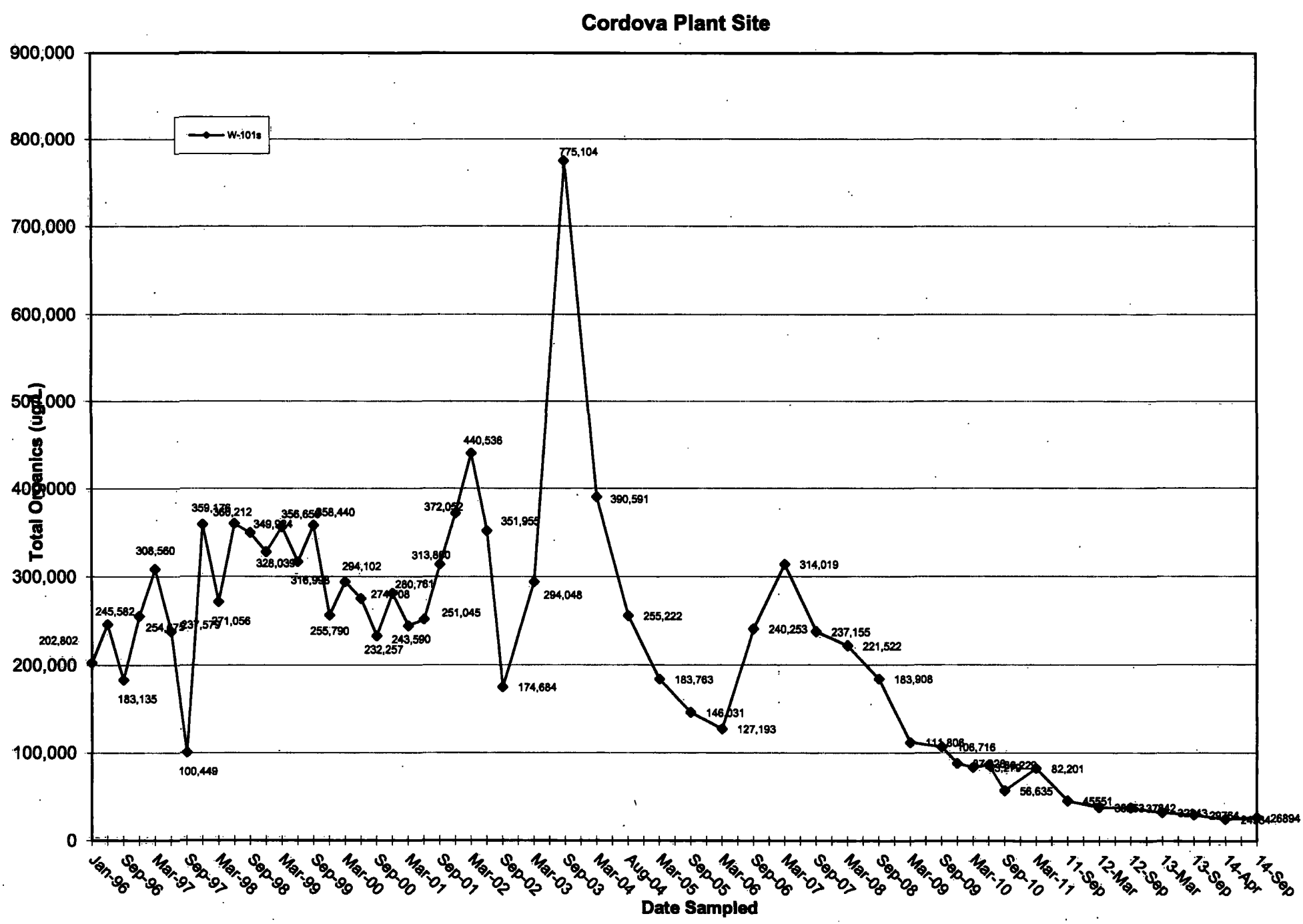
Cordova Plant Site
W-101s
Total Organics (ug/L)
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
202,802
245,582
183,135
308,560
254,
237,57
100,449
359,
271,056
328,039
316,99
255,790
294,102
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146,031
127,193
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314,019
237,155
221,522
183,908
106,716
82,201
56,635
45551
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
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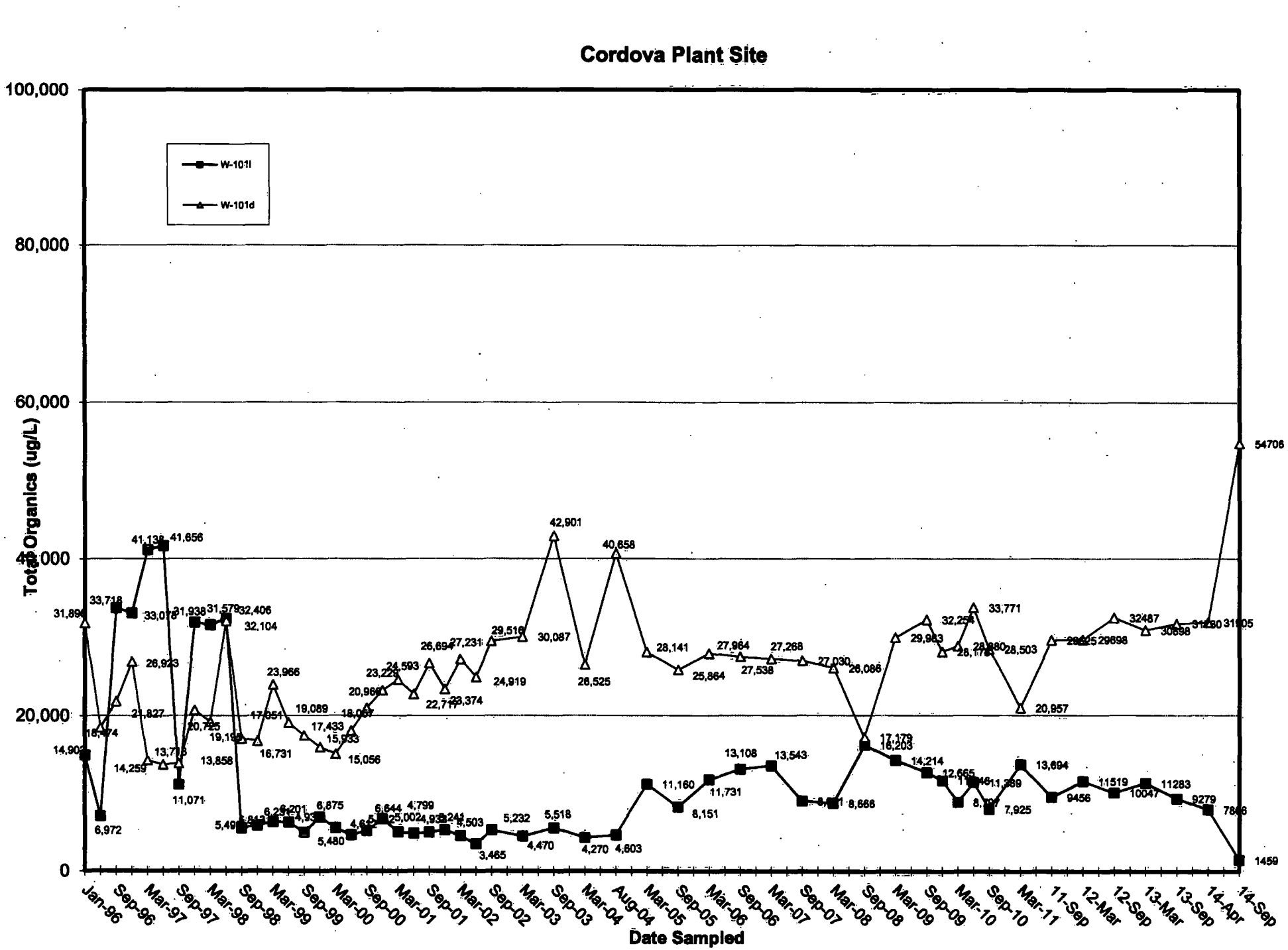
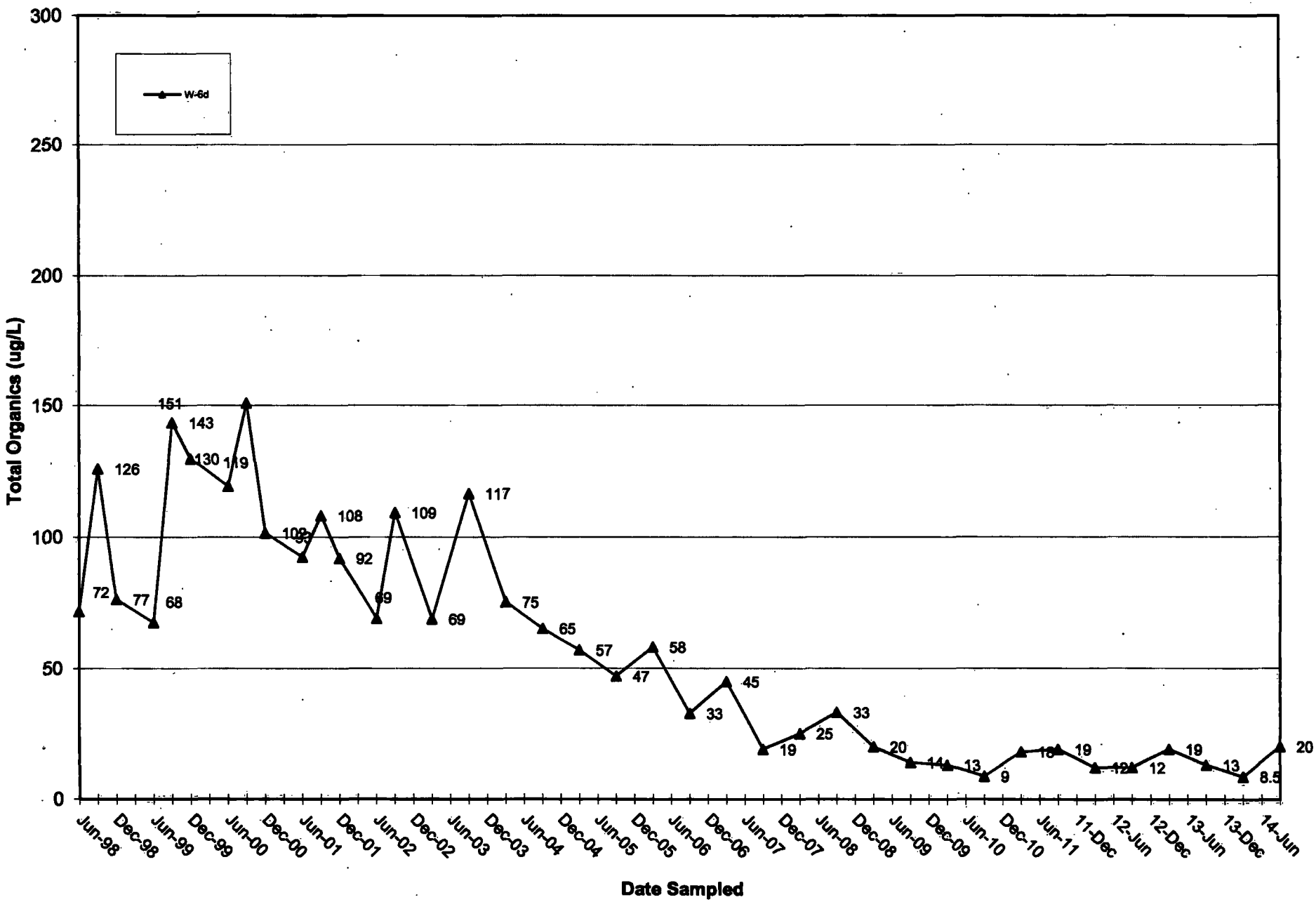
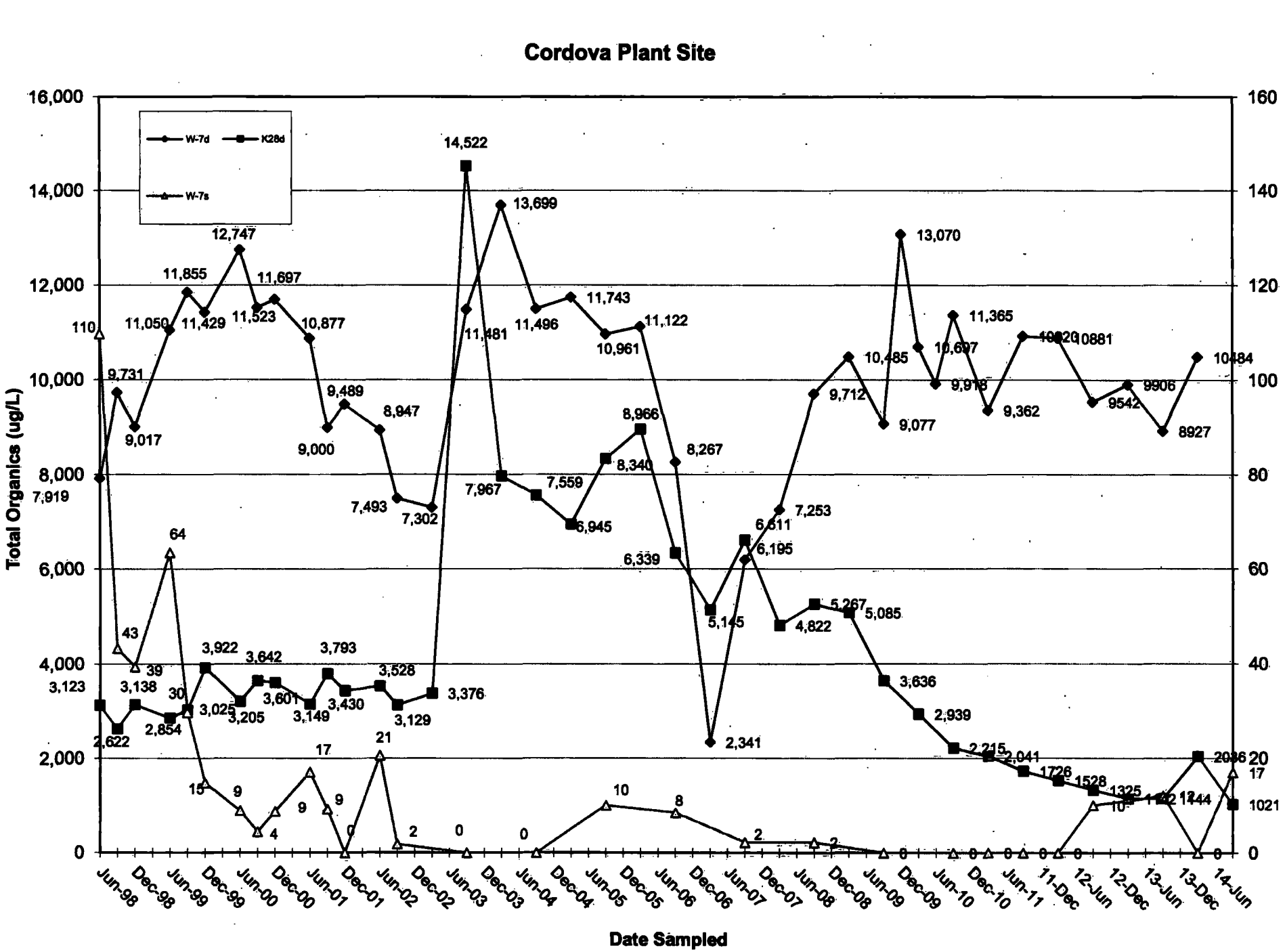
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep
Date Sampled


Cordova Plant Site
W-101I
W-101d
Total Organics (ug/L)
100,000
80,000
60,000
40,000
20,000
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep
Date Sampled
54706
1459

Cordova Plant Site




Cordova Plant Site
W-7d
K28d
W-7s
Total Organics (ug/L)
Date Sampled
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
160
140
120
100
80
60
40
20
0
Jun-98
Dec-98
Jun-99
Dec-99
Jun-00
Dec-00
Jun-01
Dec-01
Jun-02
Dec-02
Jun-03
Dec-03
Jun-04
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Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
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Dec-10
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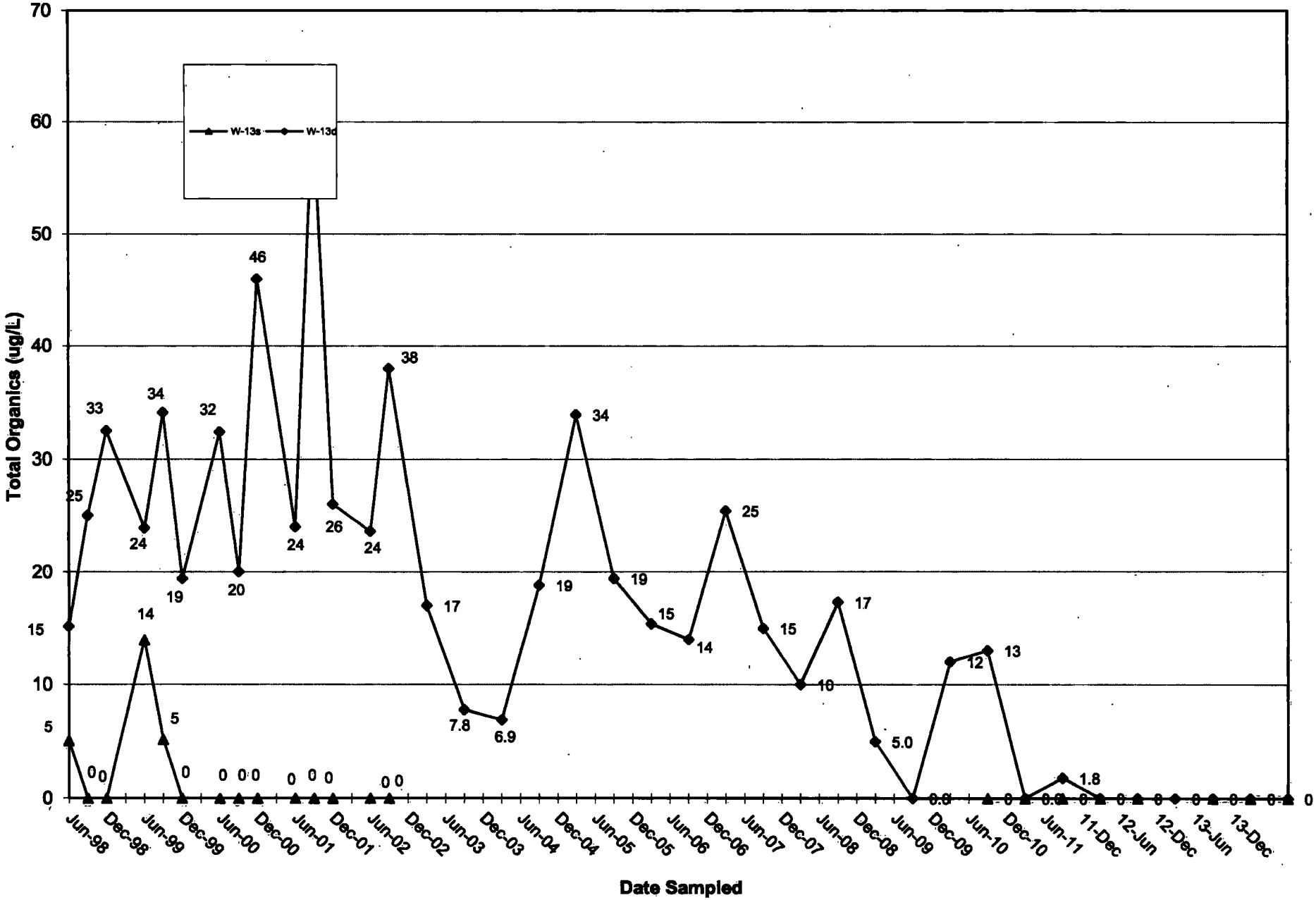
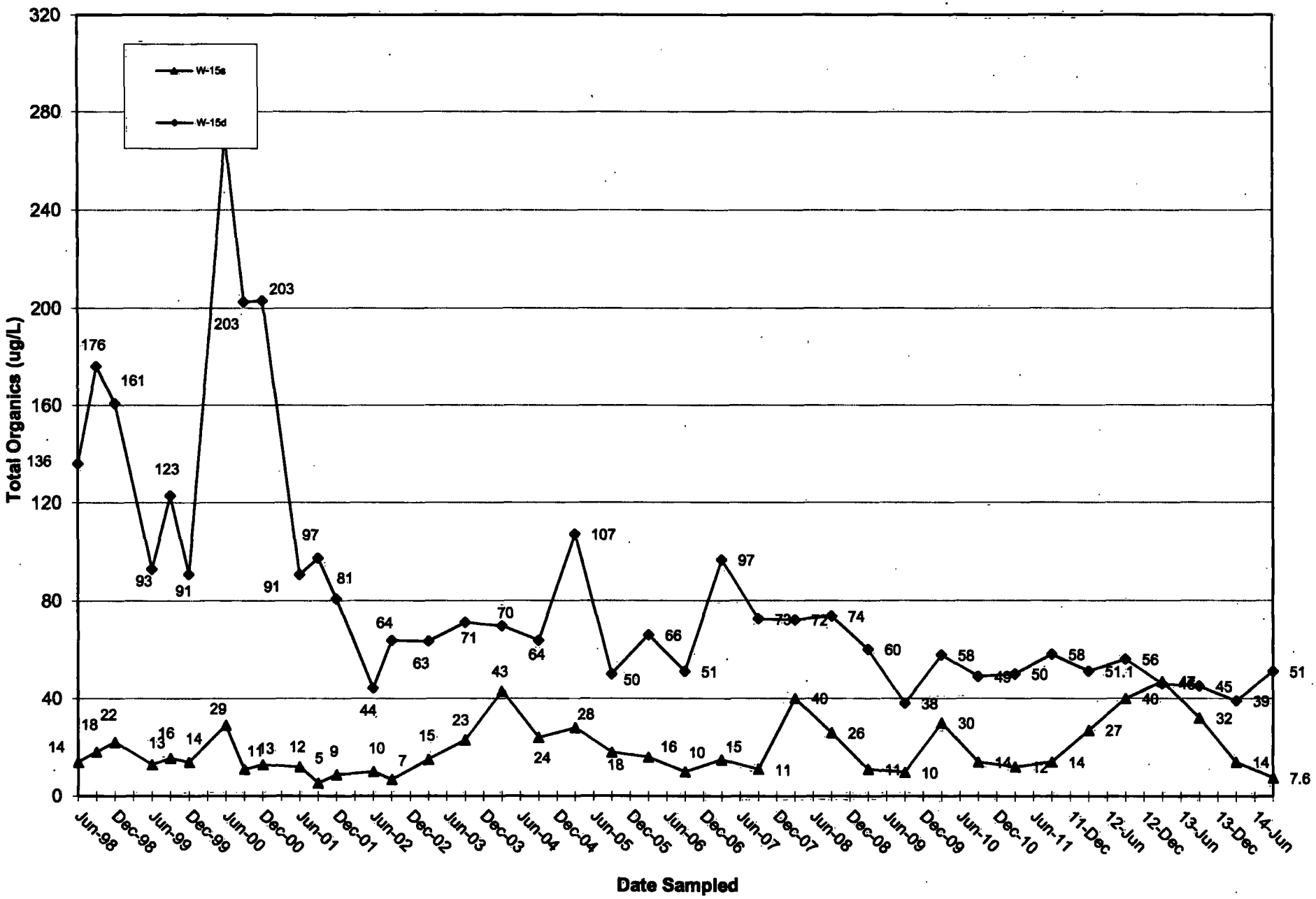
11-Dec
12-Jun
12-Dec
13-Jun
13-Dec
14-Jun

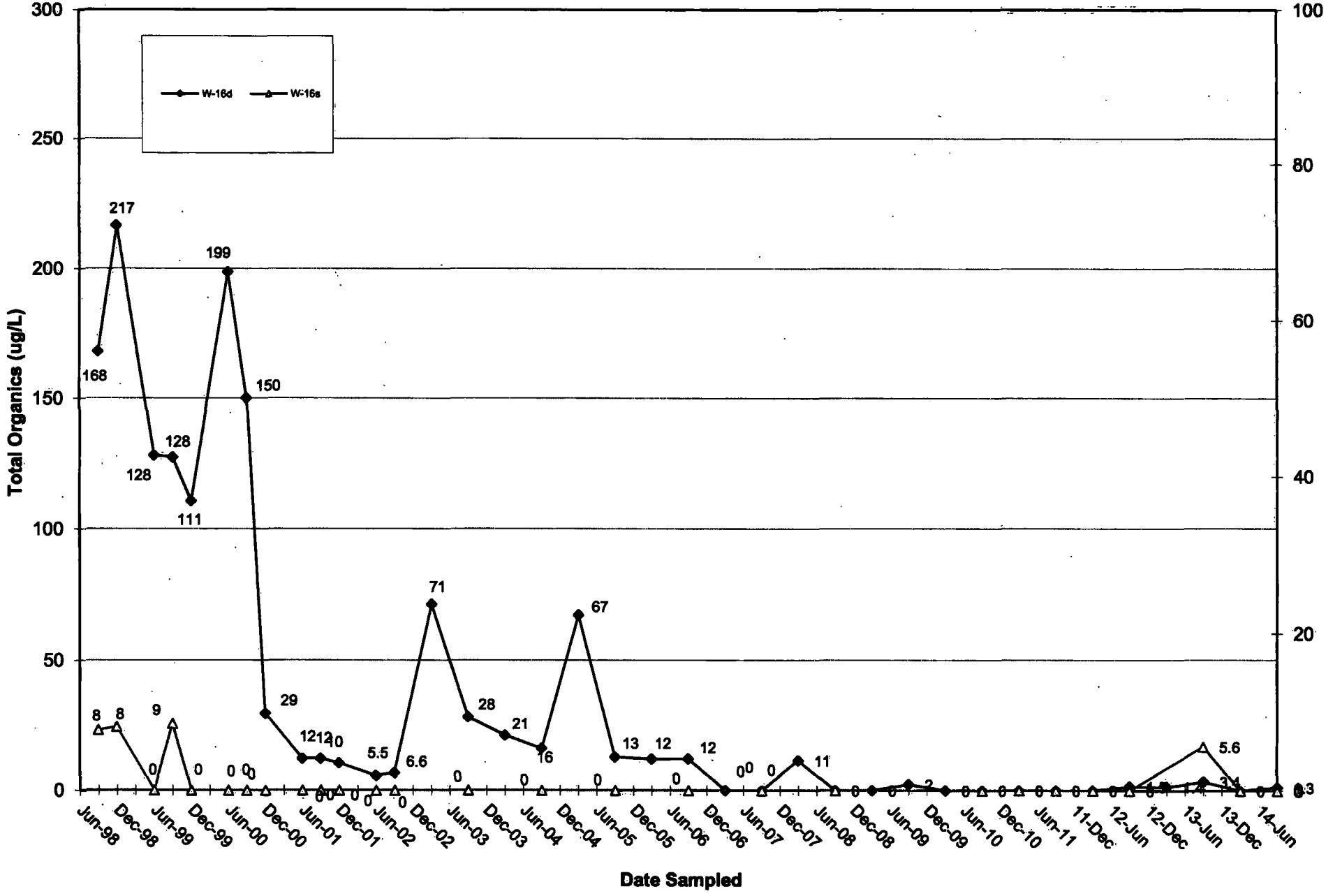
Cordova Plant Site



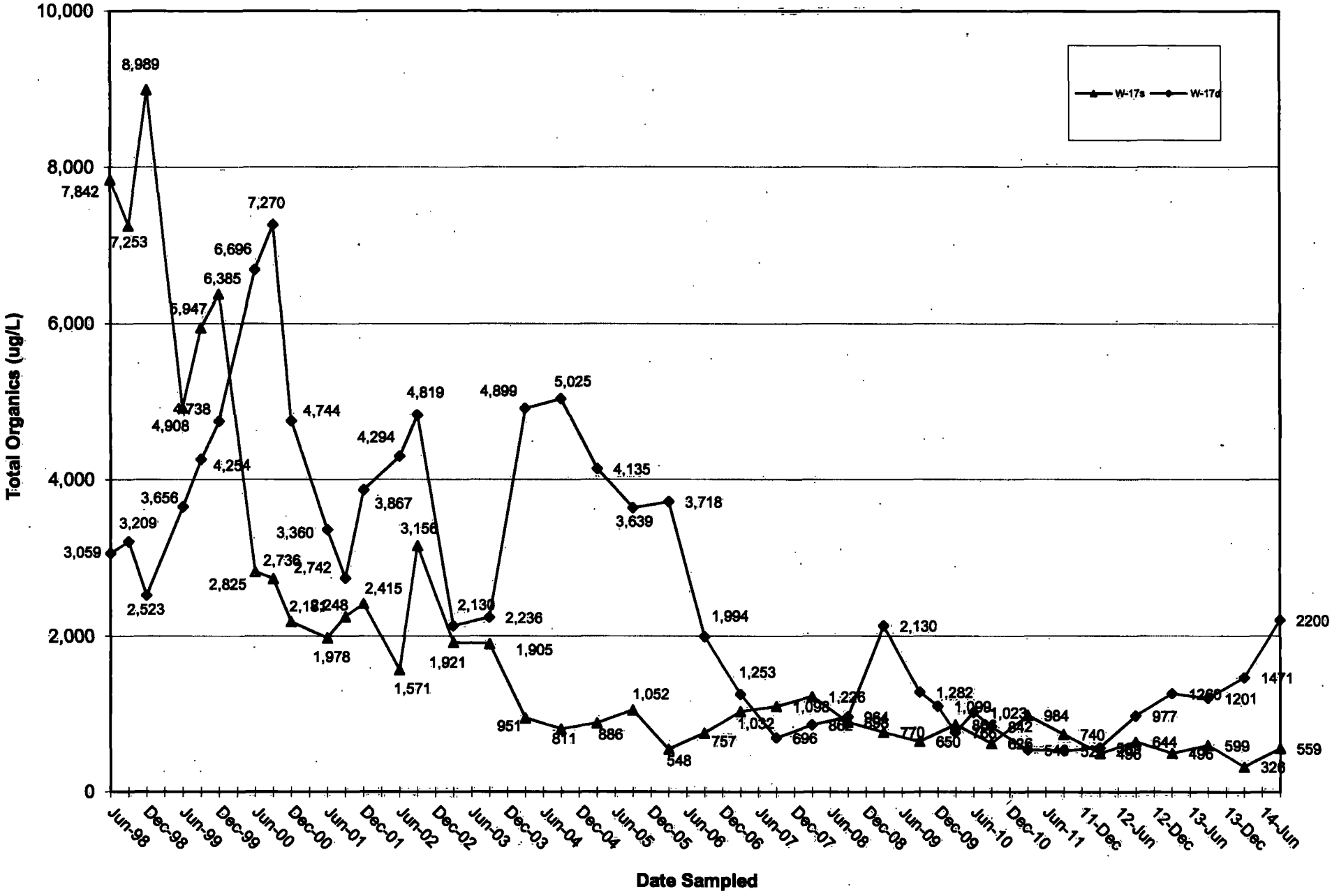
Cordova Plant Site



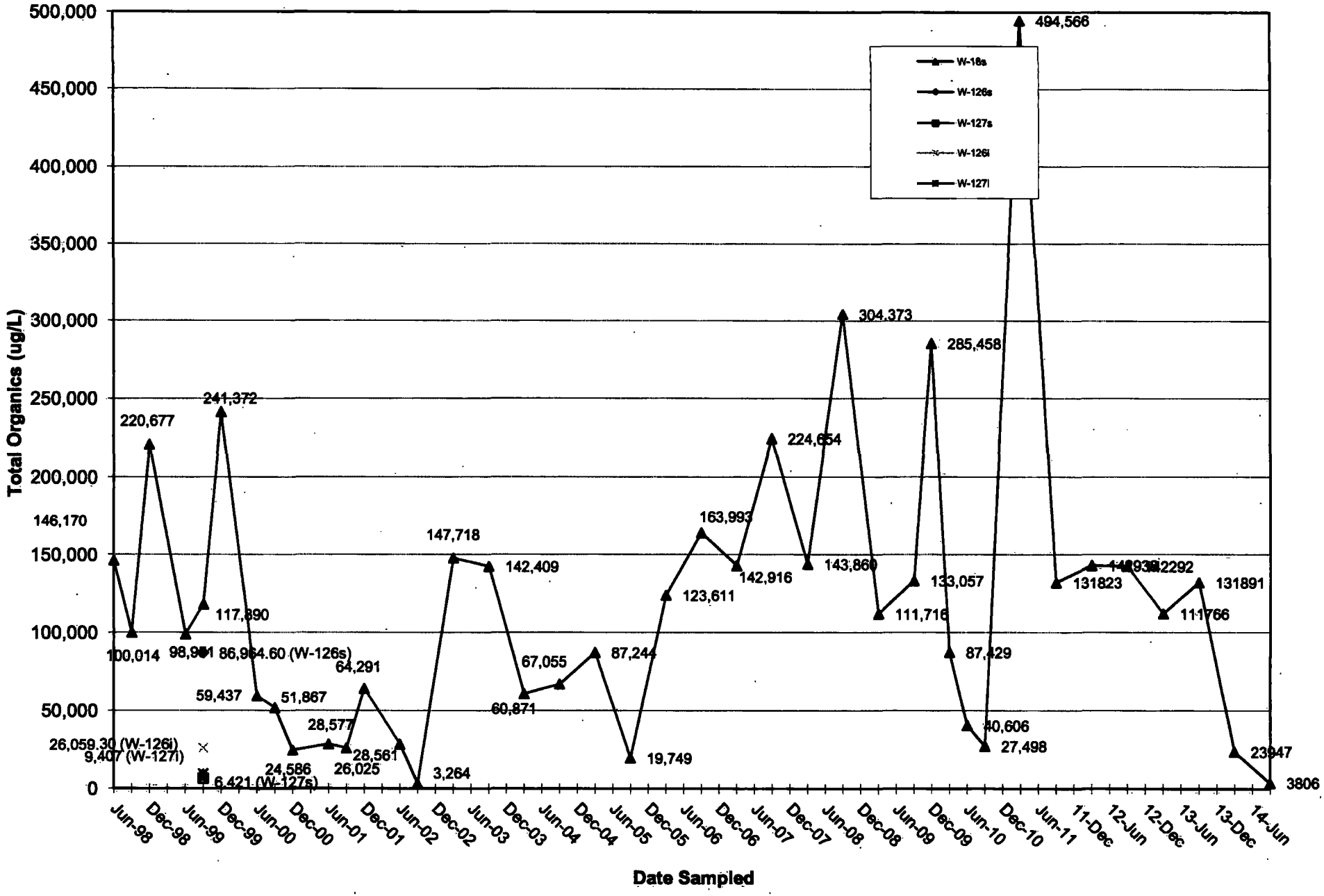
Cordova Plant Site

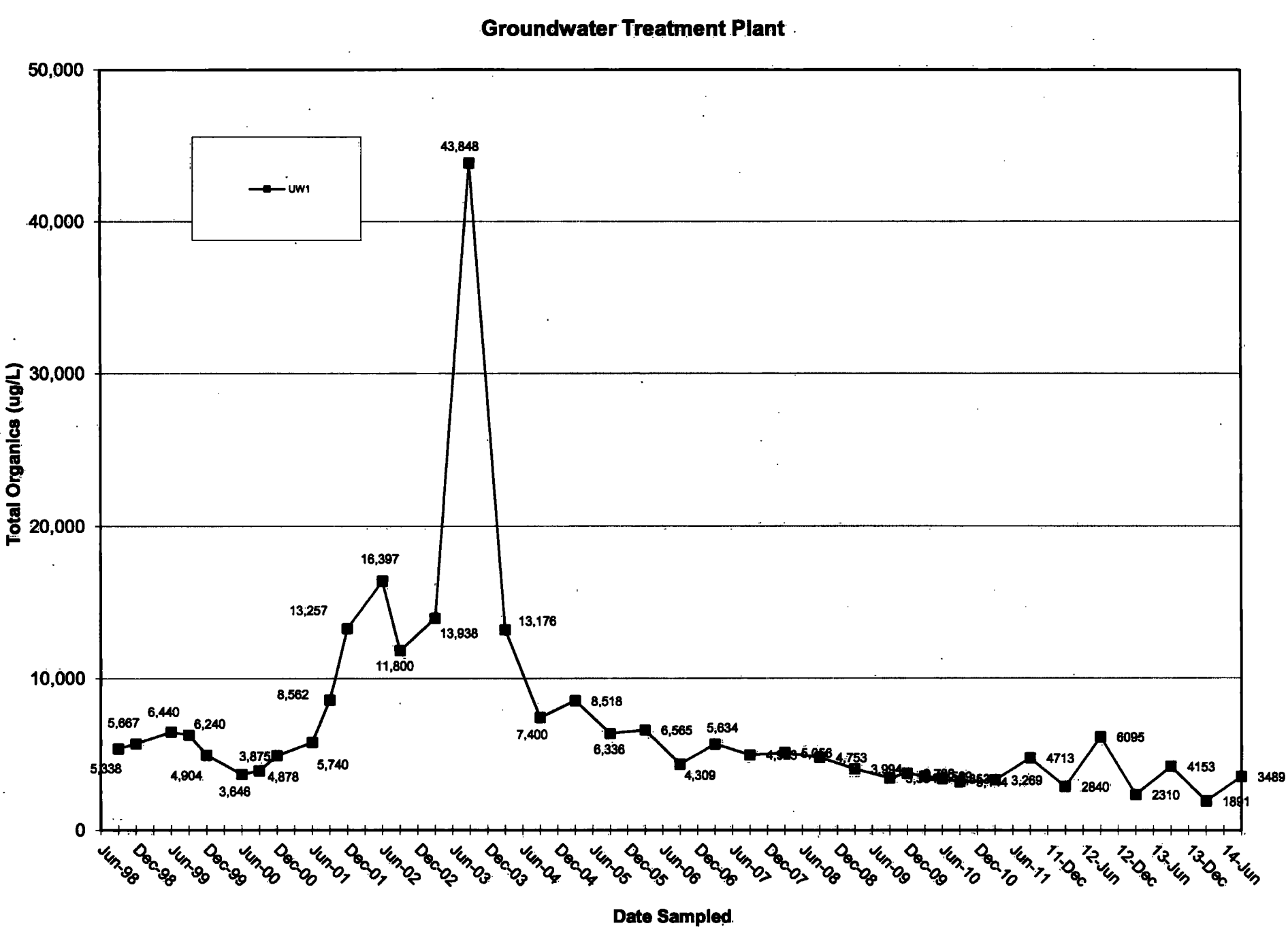


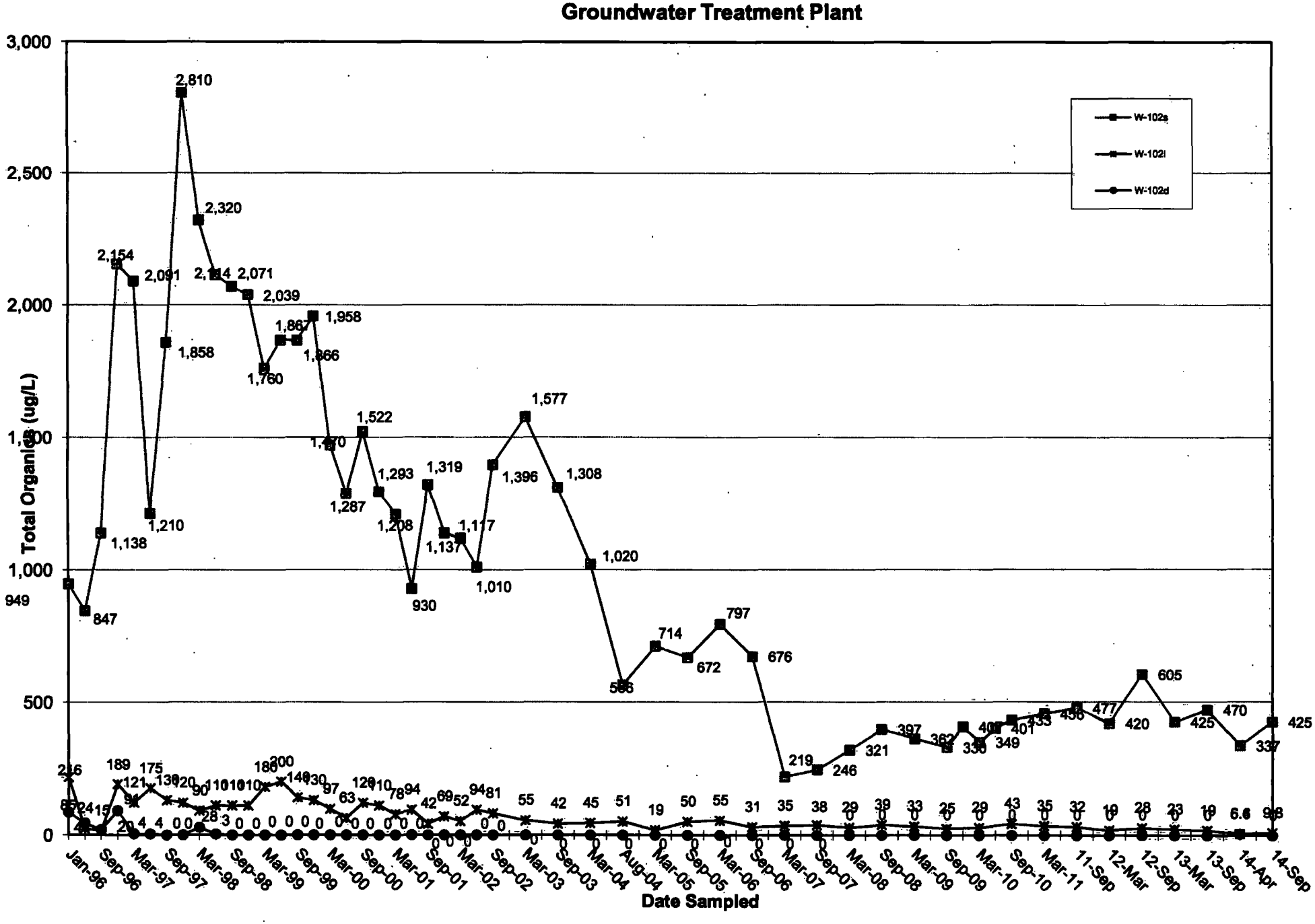
Cordova Plant Site



Cordova Plant Site




Groundwater Treatment Plant
50,000
40,000
30,000
20,000
10,000
0
Total Organics (ug/L)
UW1
5,338
5,667
6,440
6,240
4,904
3,646
3,875
4,878
8,562
5,740
13,257
16,397
11,800
13,938
43,848
13,176
7,400
8,518
6,336
6,565
4,309
5,634
4,753
3,269
4713
2840
6095
2310
4153
1891
3489
Jun-98
Dec-98
Jun-99
Dec-99
Jun-00
Dec-00
Jun-01
Dec-01
Jun-02
Dec-02
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
11-Dec
12-Jun
12-Dec
13-Jun
13-Dec
14-Jun
Date Sampled


Groundwater Treatment Plant
Total Organics (ug/L)
Date Sampled
W-102s
W-102i
W-102d
3,000
2,500
2,000
1,500
1,000
500
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
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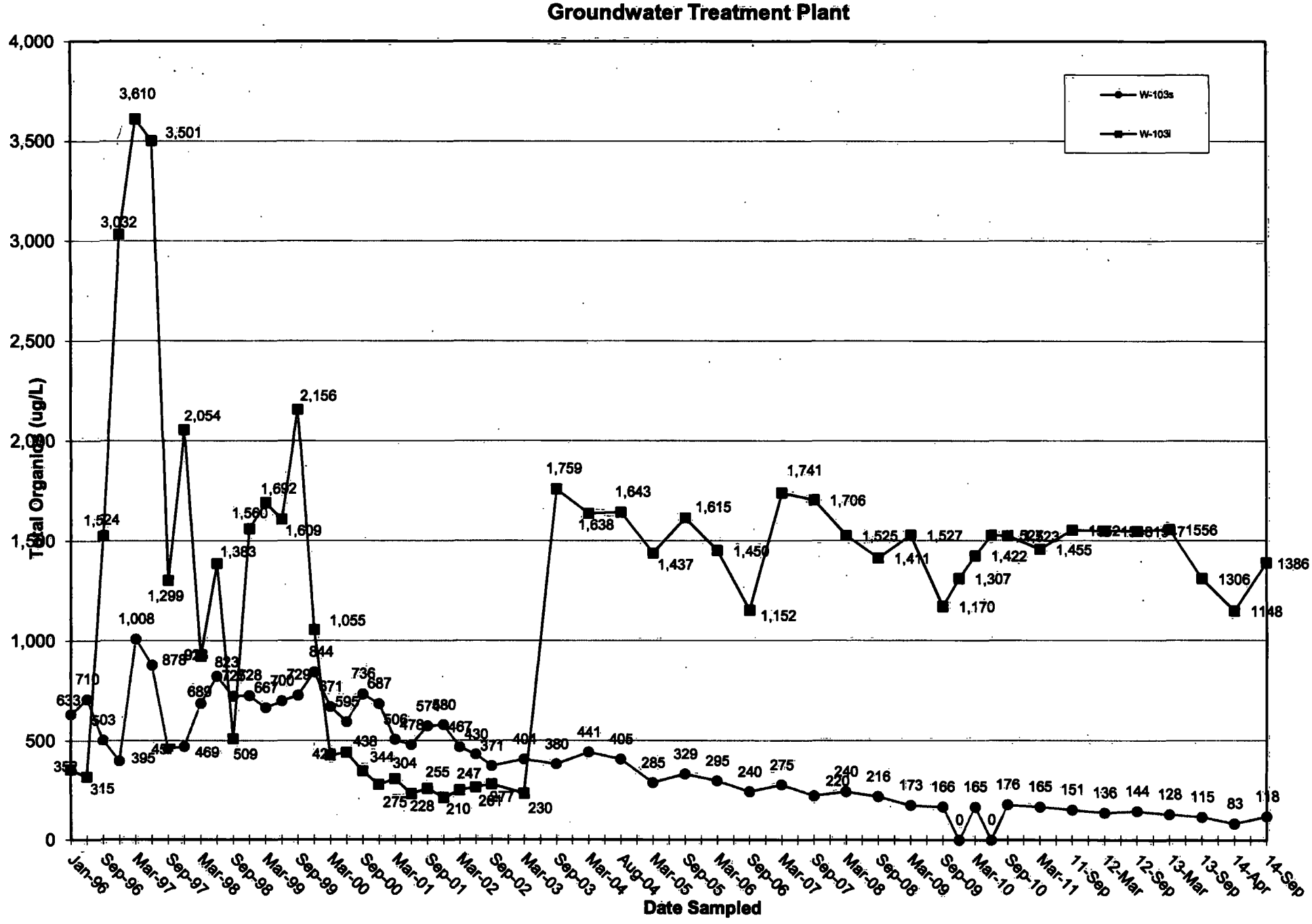
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep


Groundwater Treatment Plant
W-103s
W-103I
Total Organics (ug/L)
Date Sampled
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
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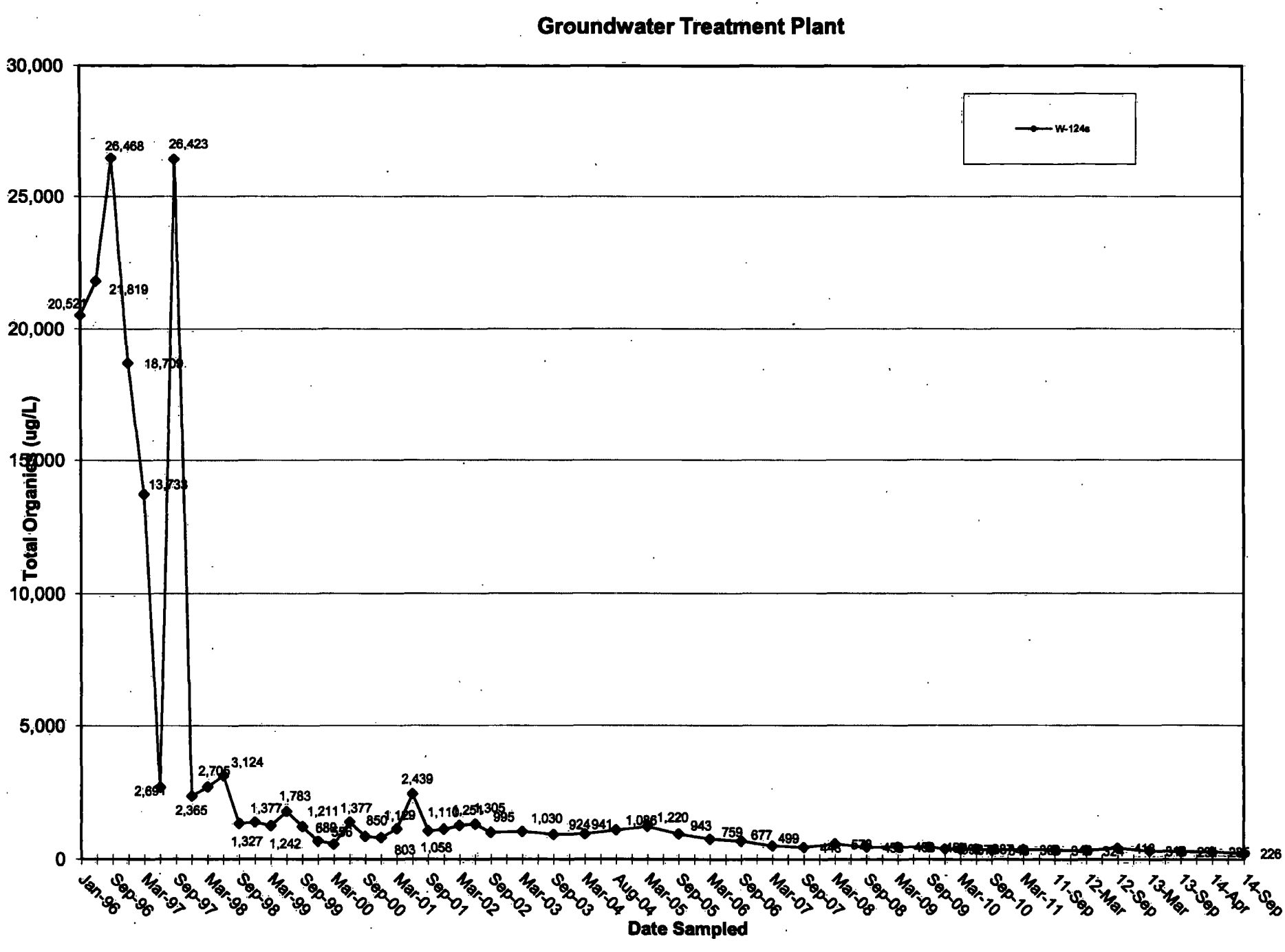
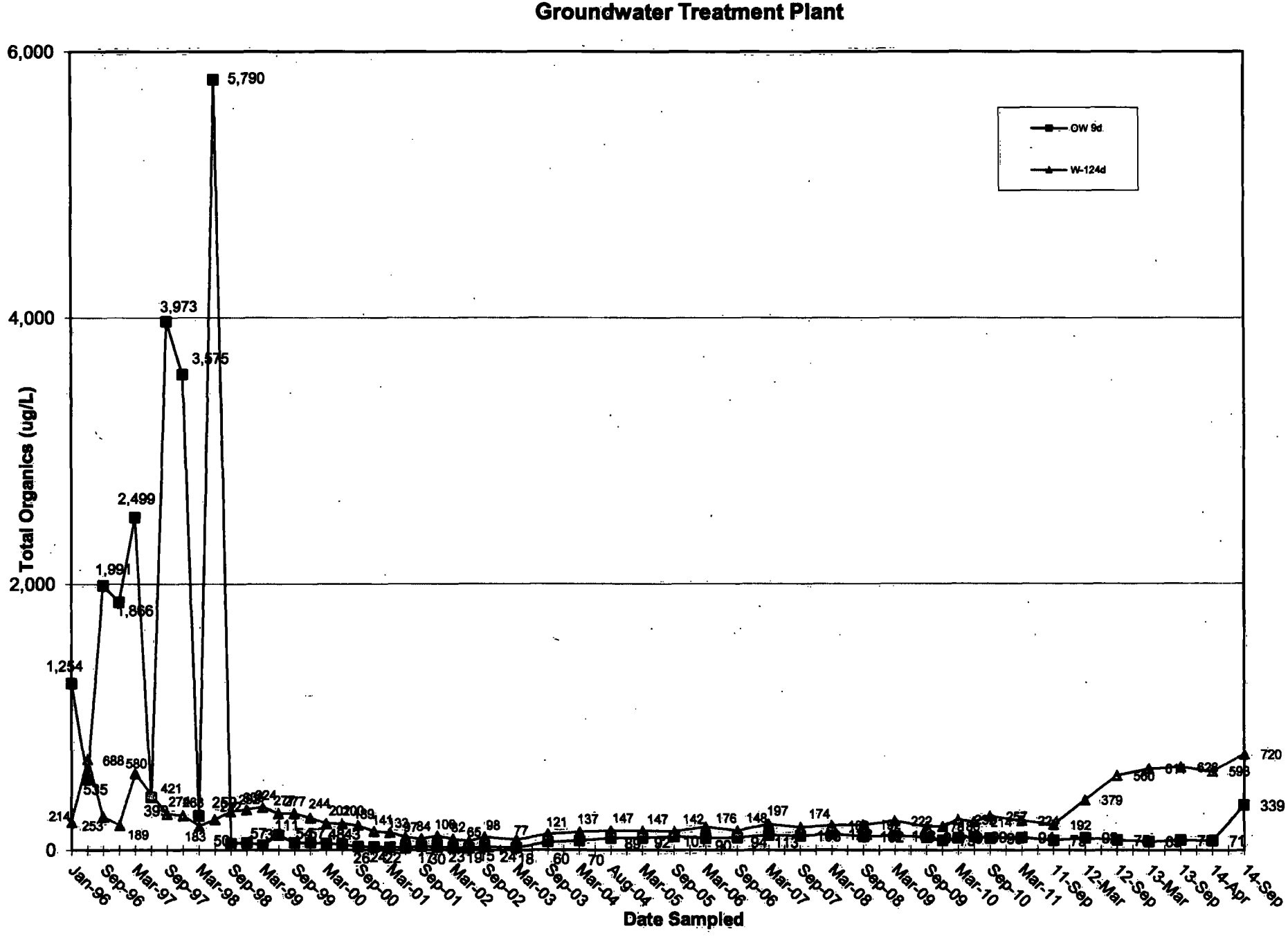
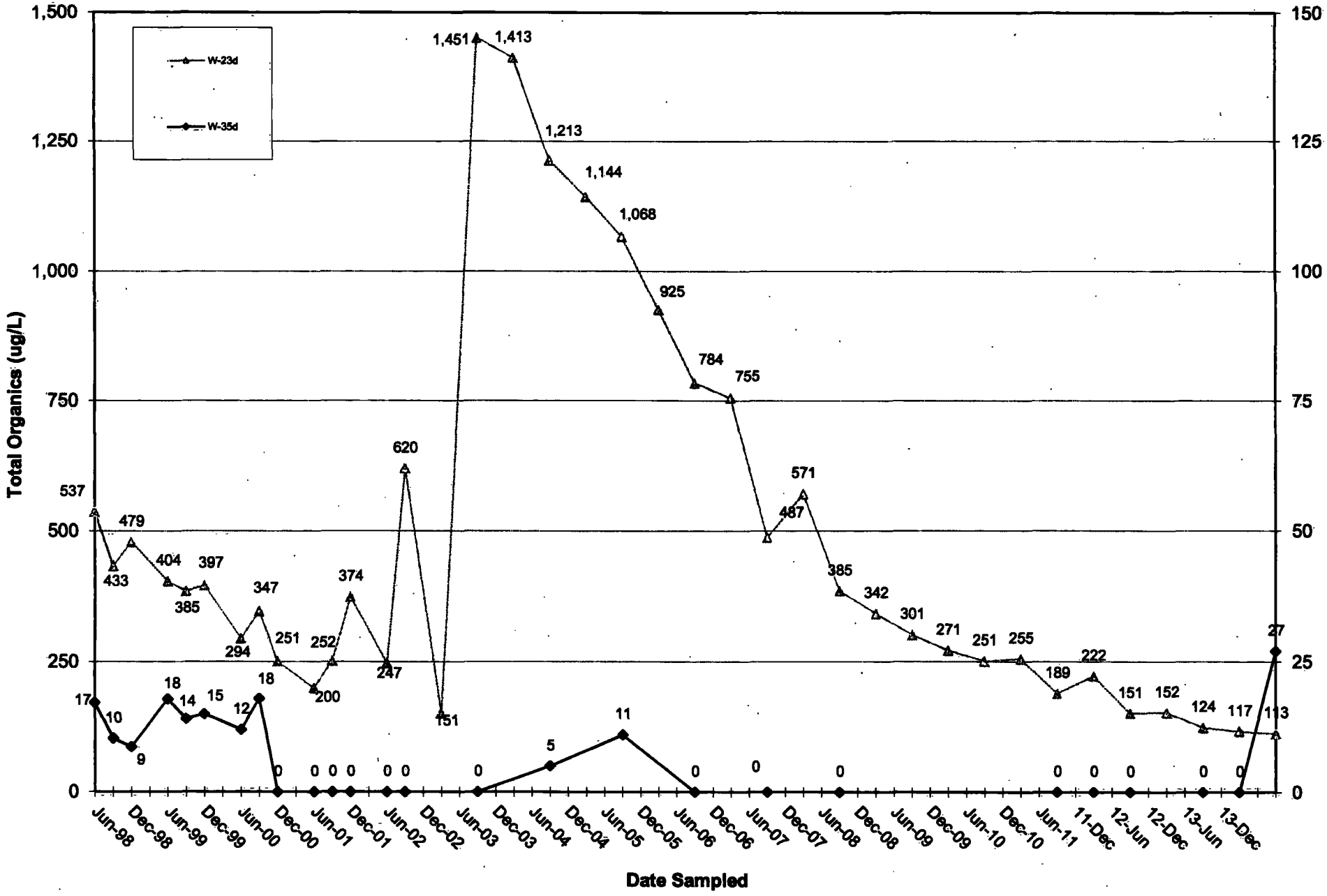
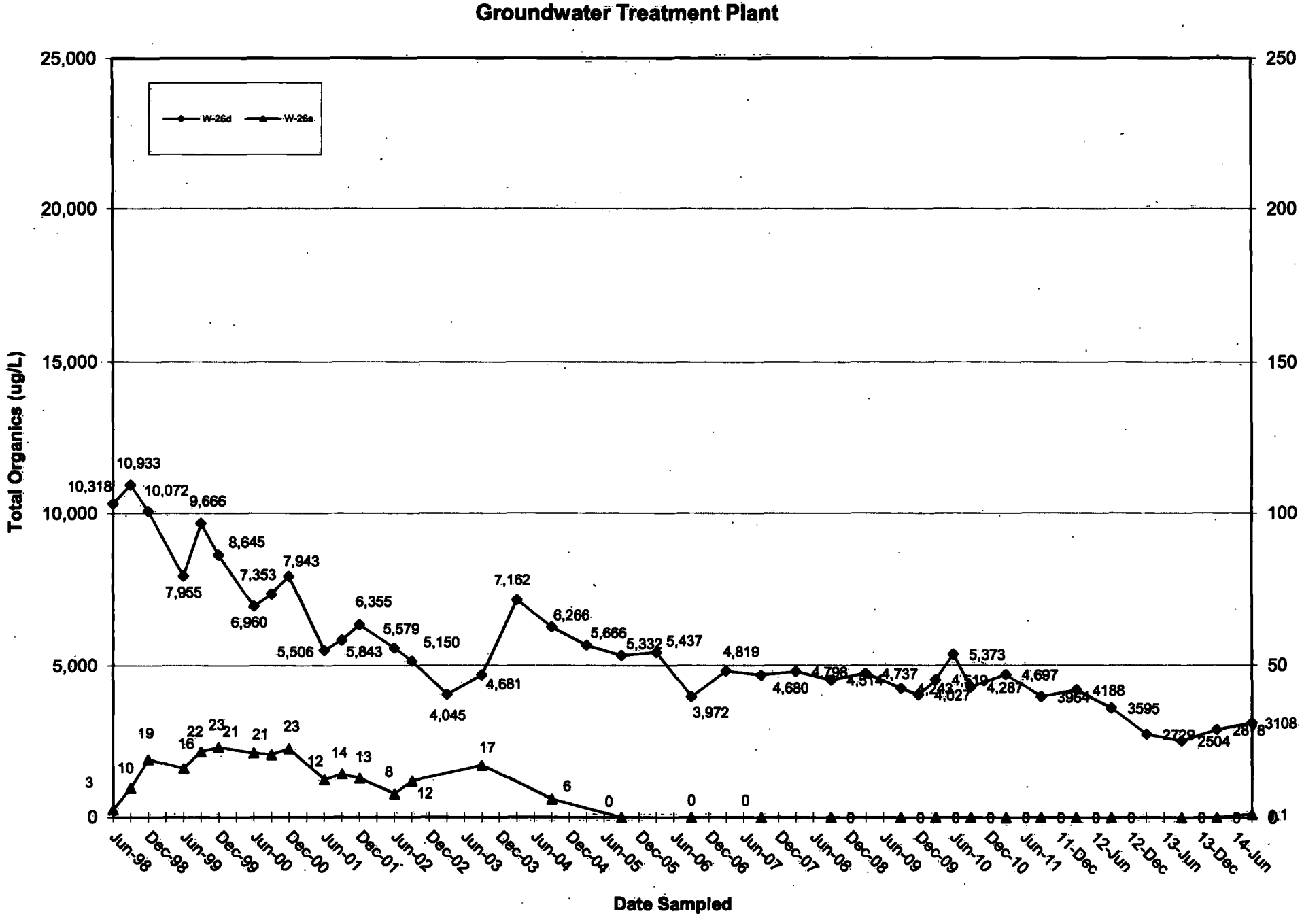
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep


Groundwater Treatment Plant
W-124s
Total Organics (ug/L)
30,000
25,000
20,000
15,000
10,000
5,000
0
Date Sampled
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep
20,521
21,819
26,468
18,709
13,733
2,691
26,423
2,365
2,705
3,124
1,327
1,377
1,242
1,783
1,211
688
1,377
850
803
2,439
1,058
1,110
1,251
1,305
995
1,030
924
941
1,086
1,220
943
759
677
499
226

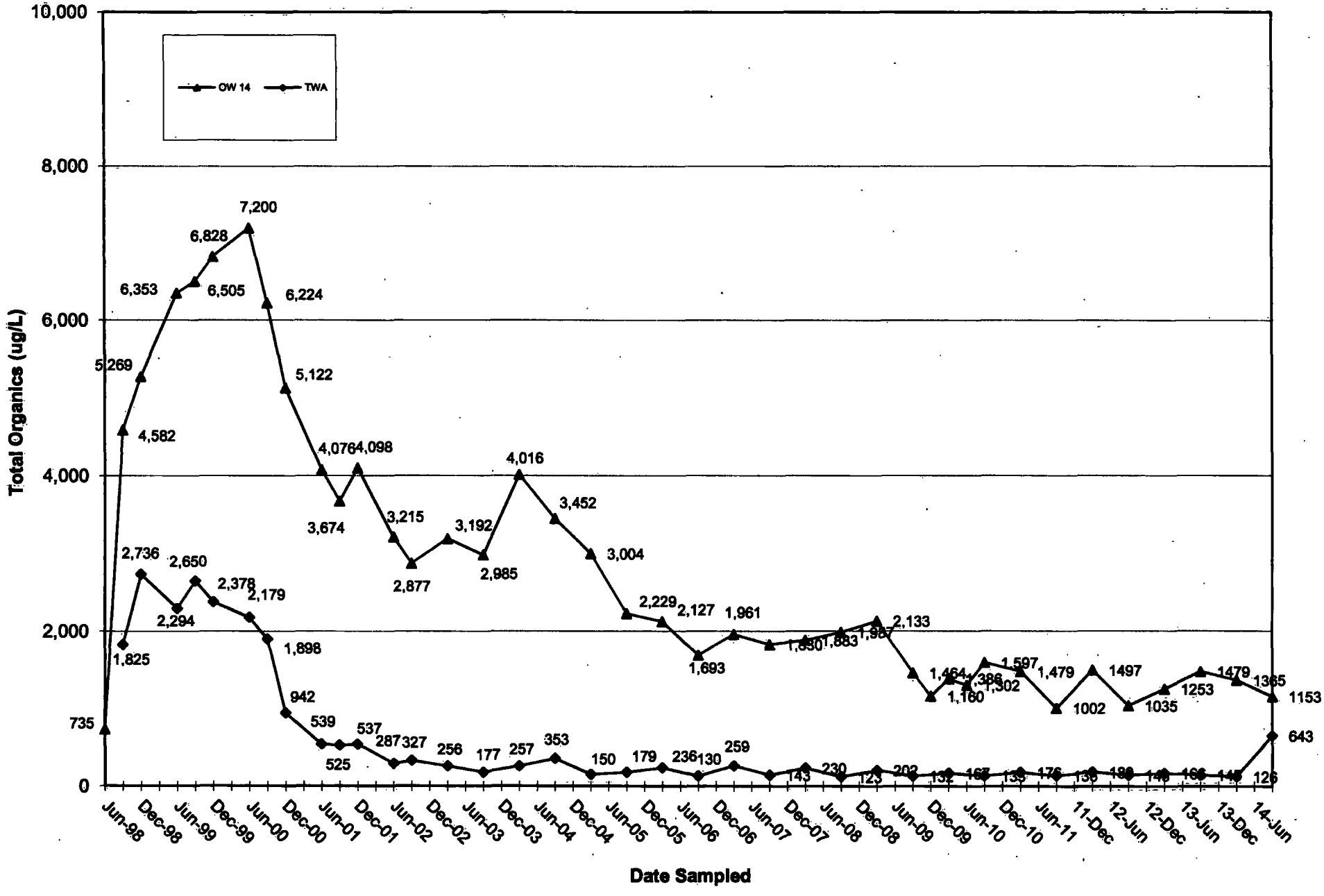

Groundwater Treatment Plant
6,000
4,000
2,000
0
Total Organics (ug/L)
OW 9d
W-124d
5,790
3,973
3,575
2,499
1,991
1,866
1,254
720
379
339
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep
Date Sampled

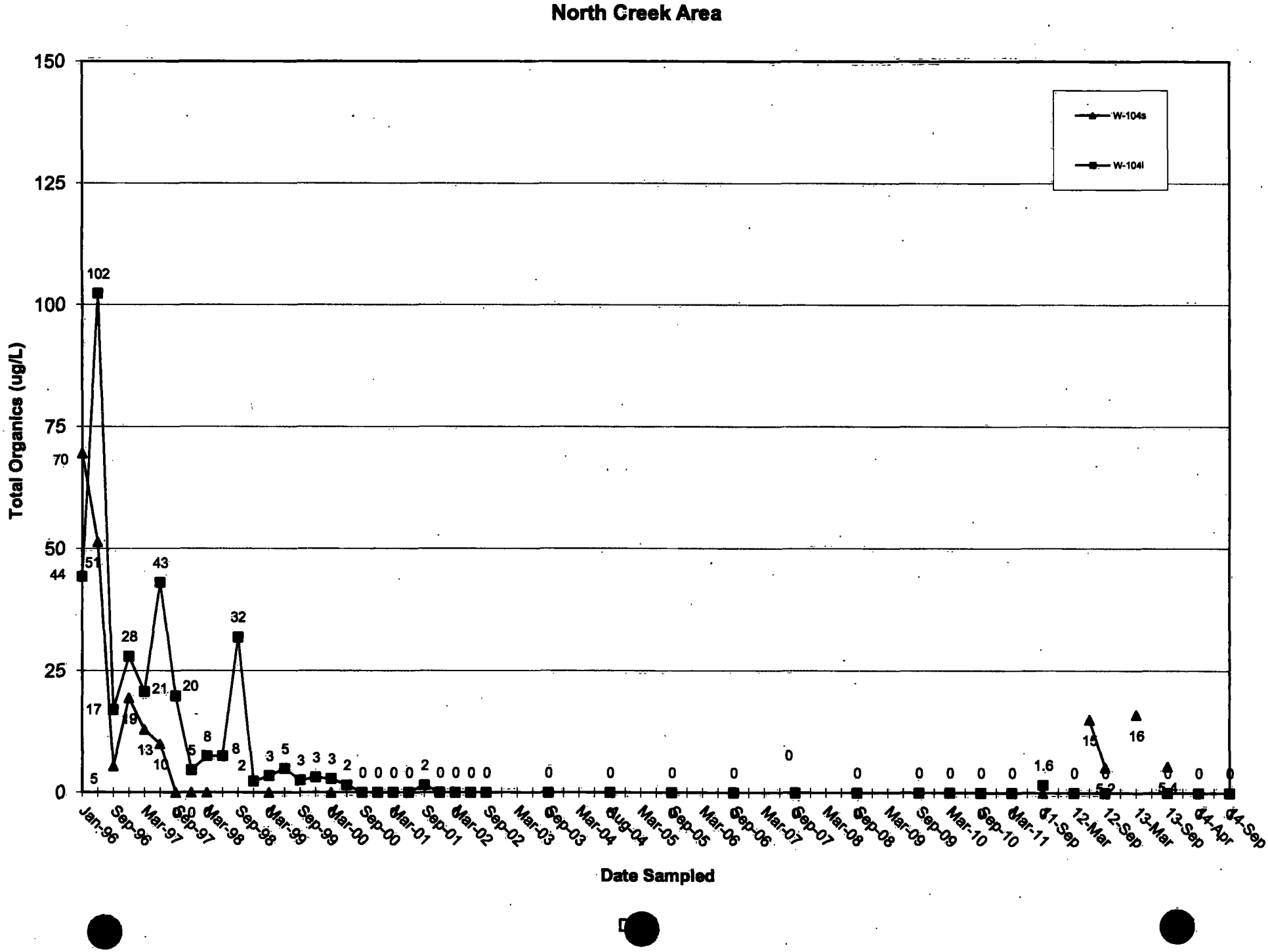
Groundwater Treatment Plant



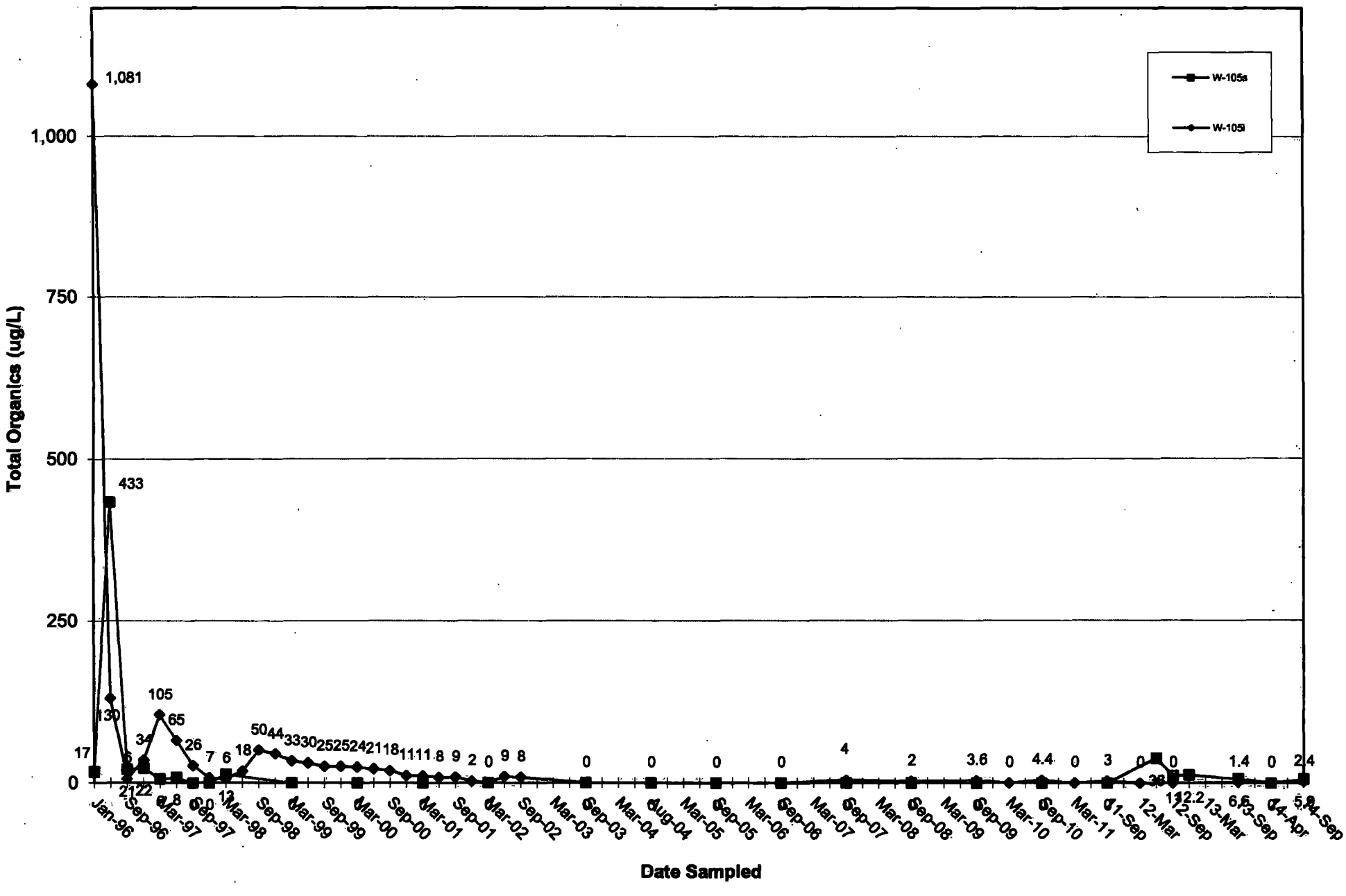

Groundwater Treatment Plant
W-26d
W-26s
Total Organics (ug/L)
25,000
20,000
15,000
10,000
5,000
3
0
250
200
150
100
50
0.1
10,318
10,933
10,072
9,666
7,955
8,645
7,353
7,943
6,960
5,506
5,843
6,355
5,579
5,150
4,045
4,681
7,162
6,266
5,666
5,332
5,437
3,972
4,819
4,680
4,798
4,514
4,737
4,027
5,373
4,287
4,697
3954
4188
3595
2729
2504
2878
3108
10
19
16
22
23
21
21
23
12
14
13
8
12
17
6
0
0
0
Jun-98
Dec-98
Jun-99
Dec-99
Jun-00
Dec-00
Jun-01
Dec-01
Jun-02
Dec-02
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
11-Dec
12-Jun
12-Dec
13-Jun
13-Dec
14-Jun
Date Sampled

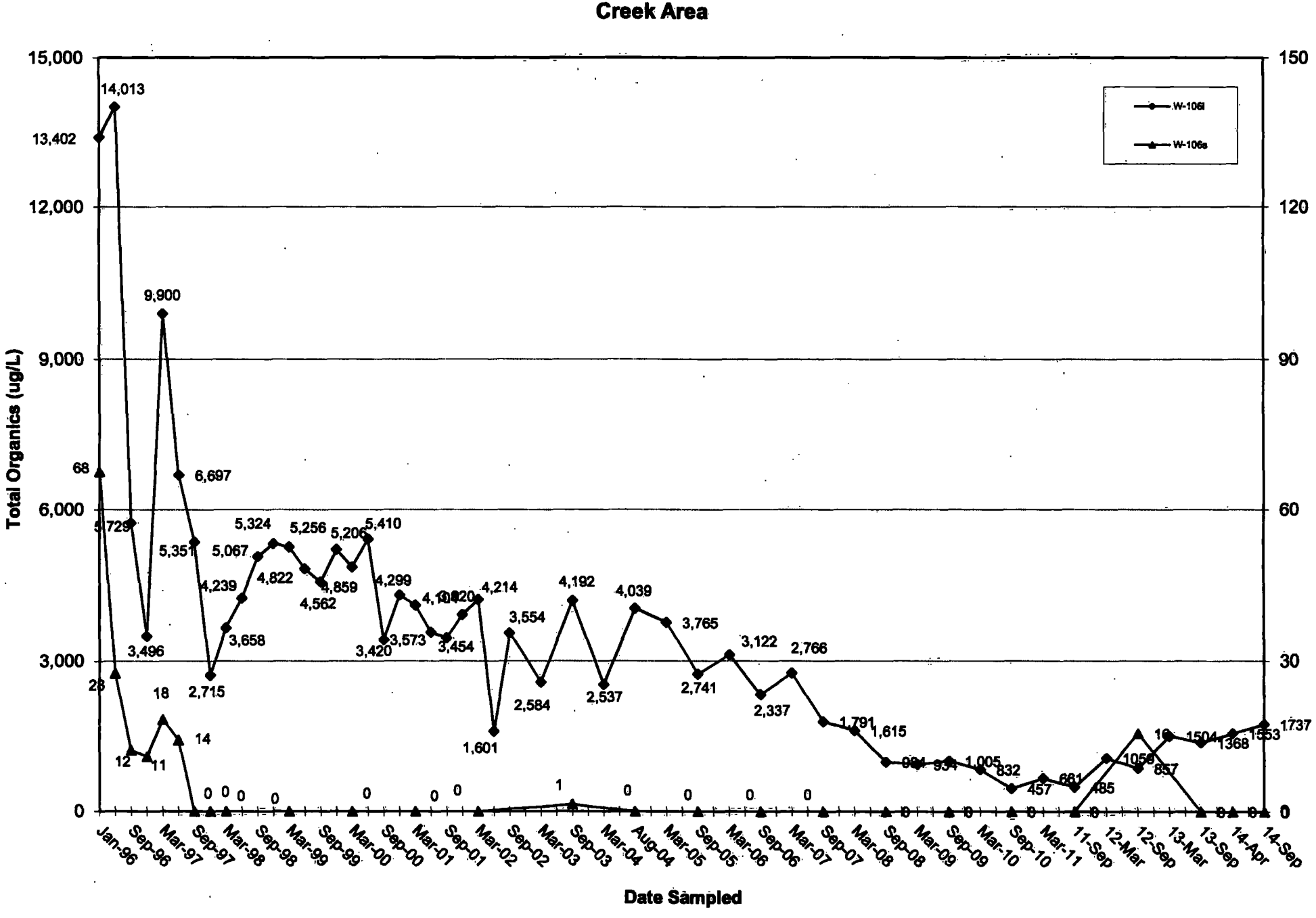
Between Plant and Creek




North Creek Area
Total Organics (ug/L)
Date Sampled
W-104s
W-104I
150
125
100
75
50
25
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep

North Creek Area




Creek Area
Total Organics (ug/L)
Date Sampled
W-106I
W-106s
15,000
13,402
12,000
9,000
6,000
3,000
0
150
120
90
60
30
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
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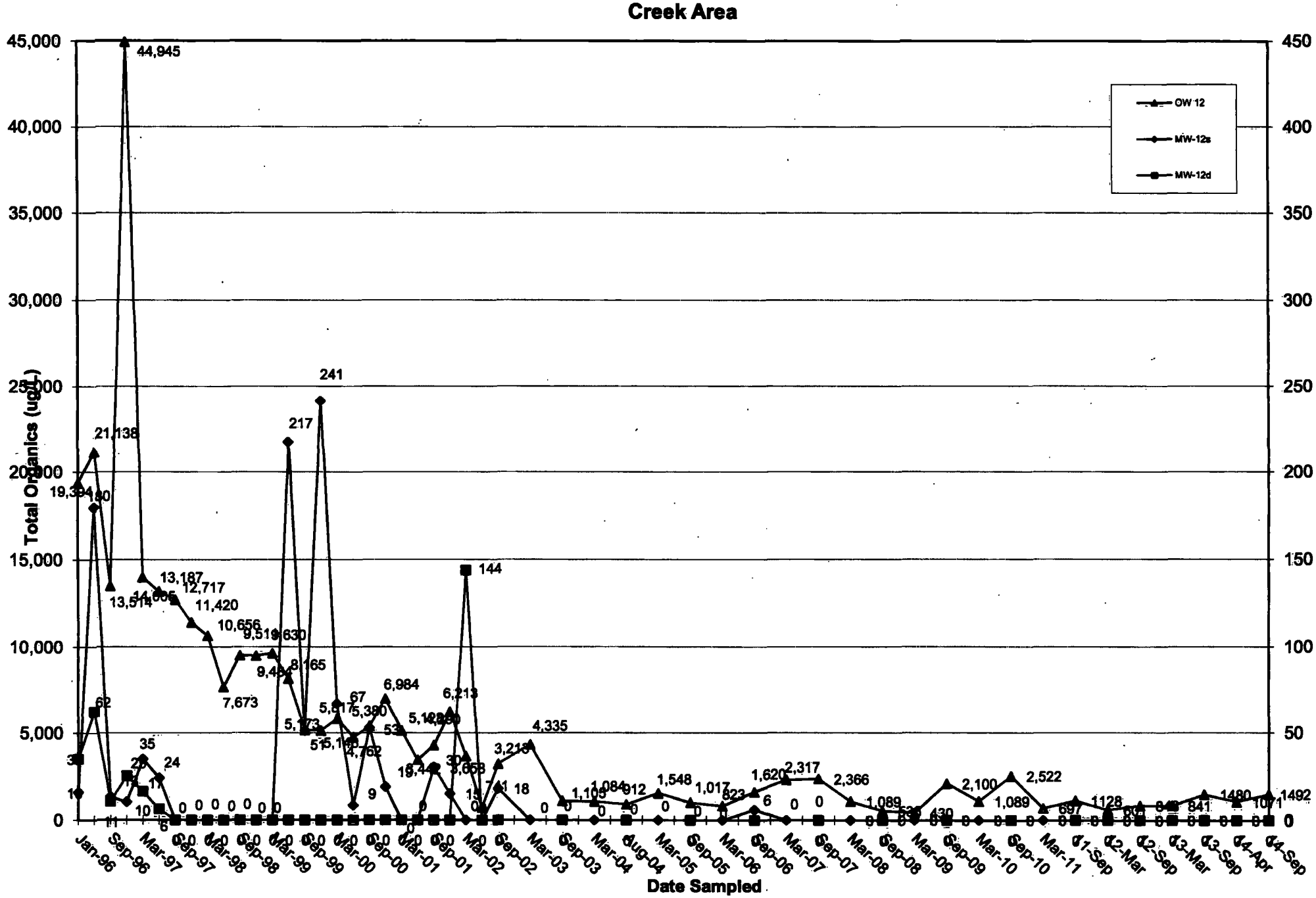
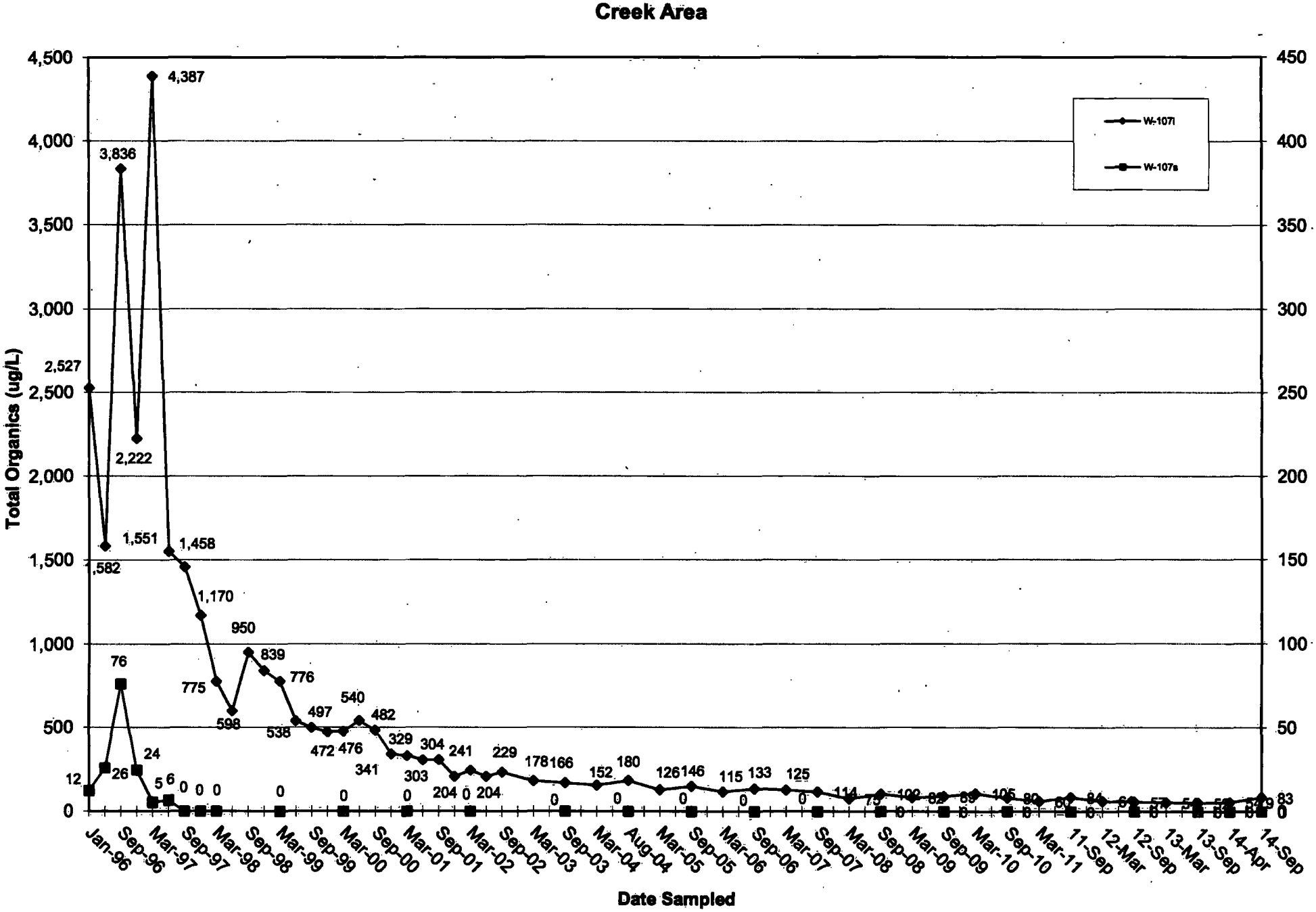
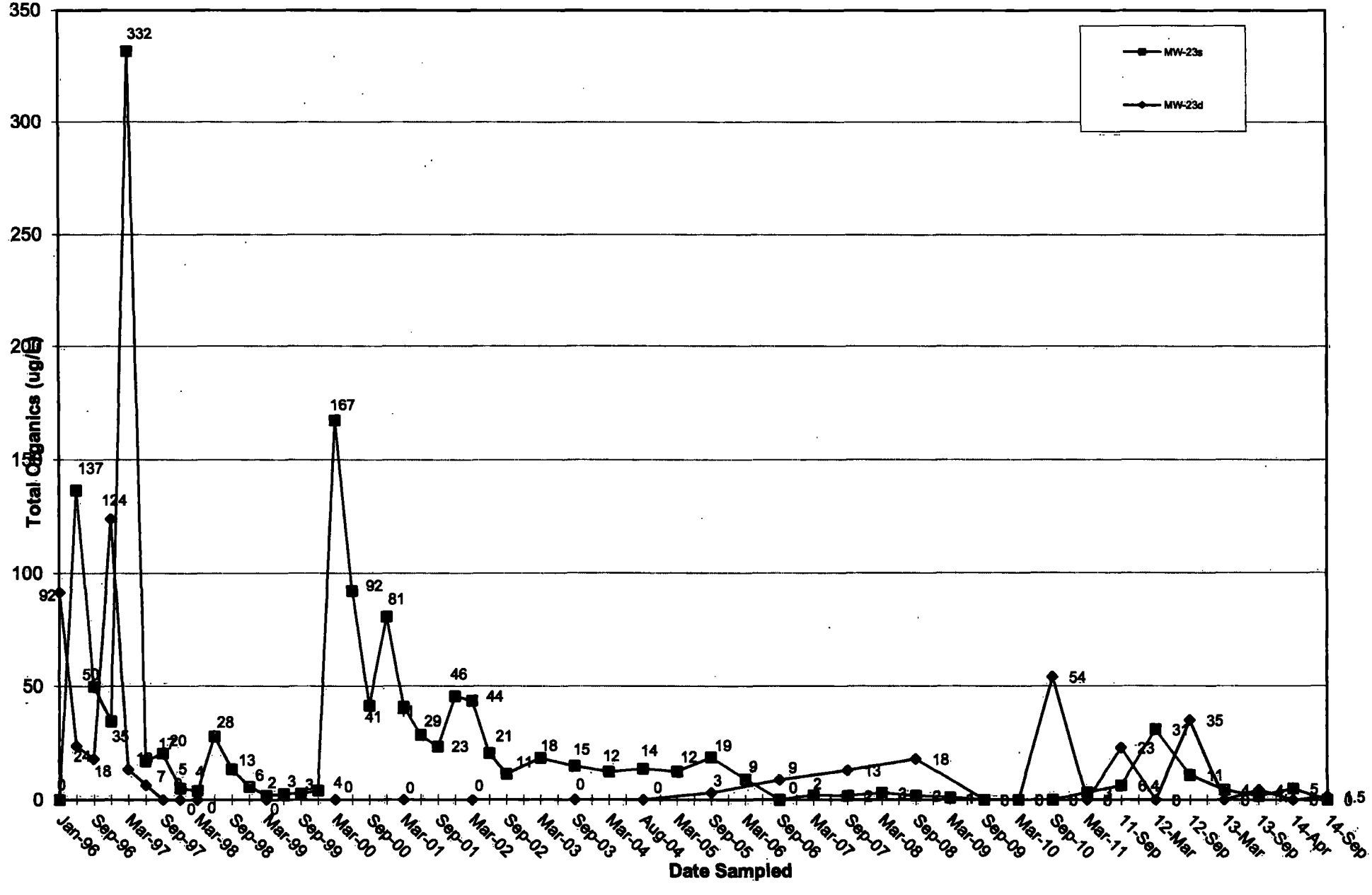
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep


Creek Area
Total Organics (ug/L)
Date Sampled
OW-12
MW-12s
MW-12d
45,000
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
450
400
350
300
250
200
150
100
50
0
44,945
21,138
19,394
13,514
13,187
12,717
11,420
10,656
9,519
9,630
9,484
8,165
7,673
6,984
6,213
5,817
5,380
5,128
4,762
4,335
3,218
3,658
2,366
2,317
2,522
2,100
1,620
1,548
1,109
1,084
1,089
1,017
912
823
697
1128
1480
1492
1071
841
430
241
217
144
62
35
24
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Q1-Sep
Q2-Mar
Q2-Sep
Q3-Mar
Q3-Sep
Q4-Apr
Q4-Sep


Creek Area
Total Organics (ug/L)
Date Sampled
W-107I
W-107s
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
450
400
350
300
250
200
150
100
50
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep

Creek Area


MW-23s
MW-23d
Total Organics (ug/L)
Date Sampled
350
300
250
200
150
100
50
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
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Sep-10
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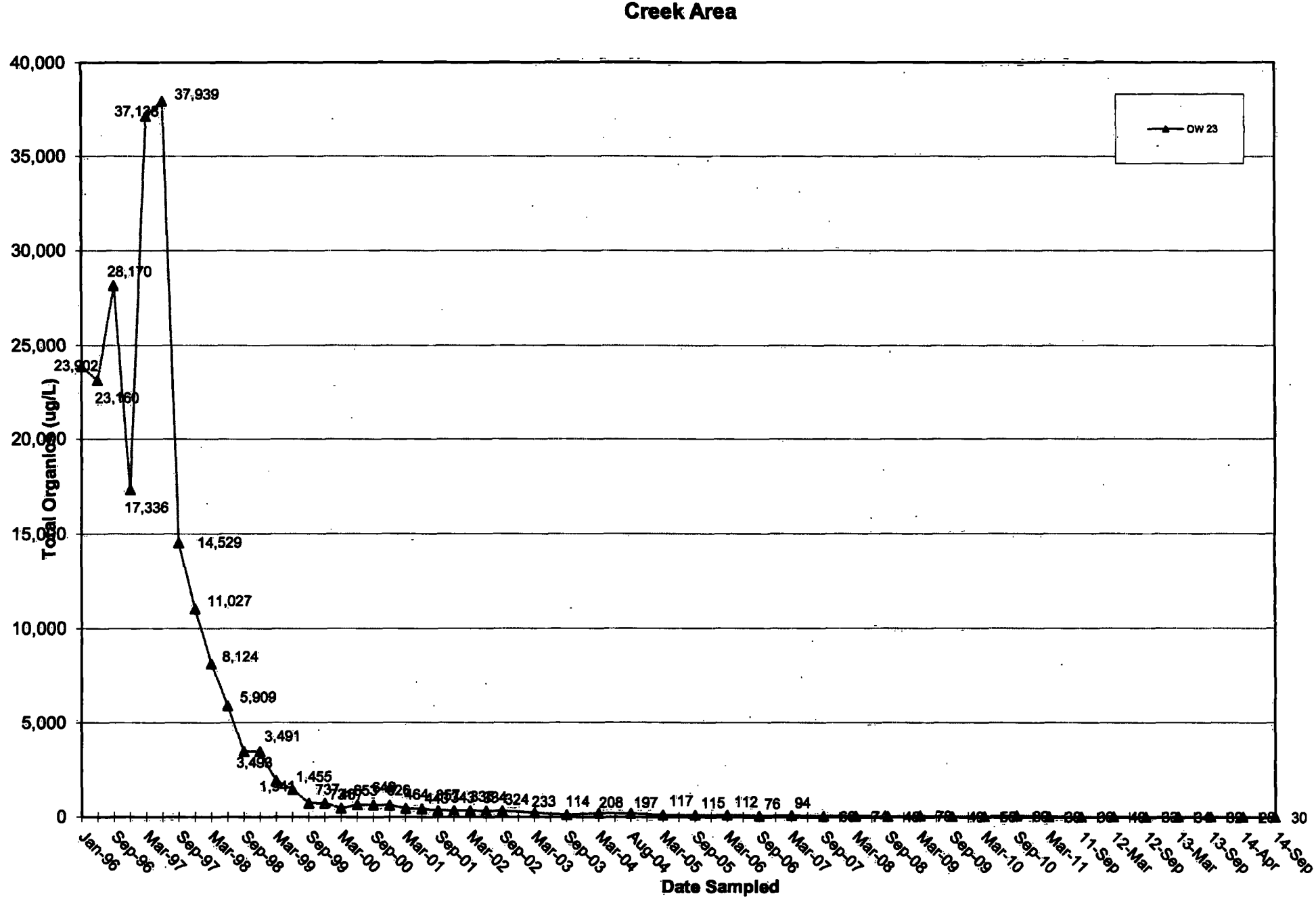
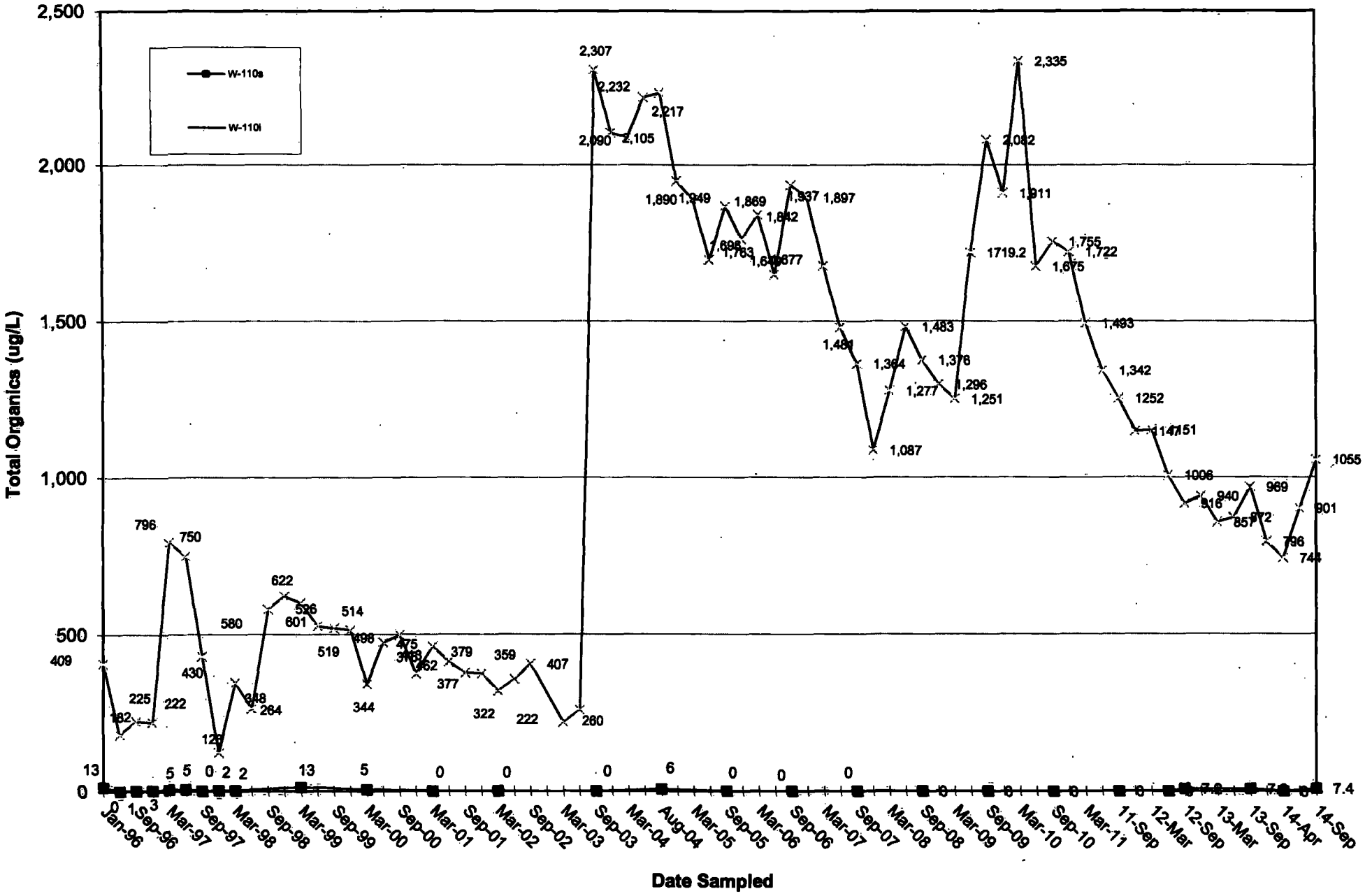
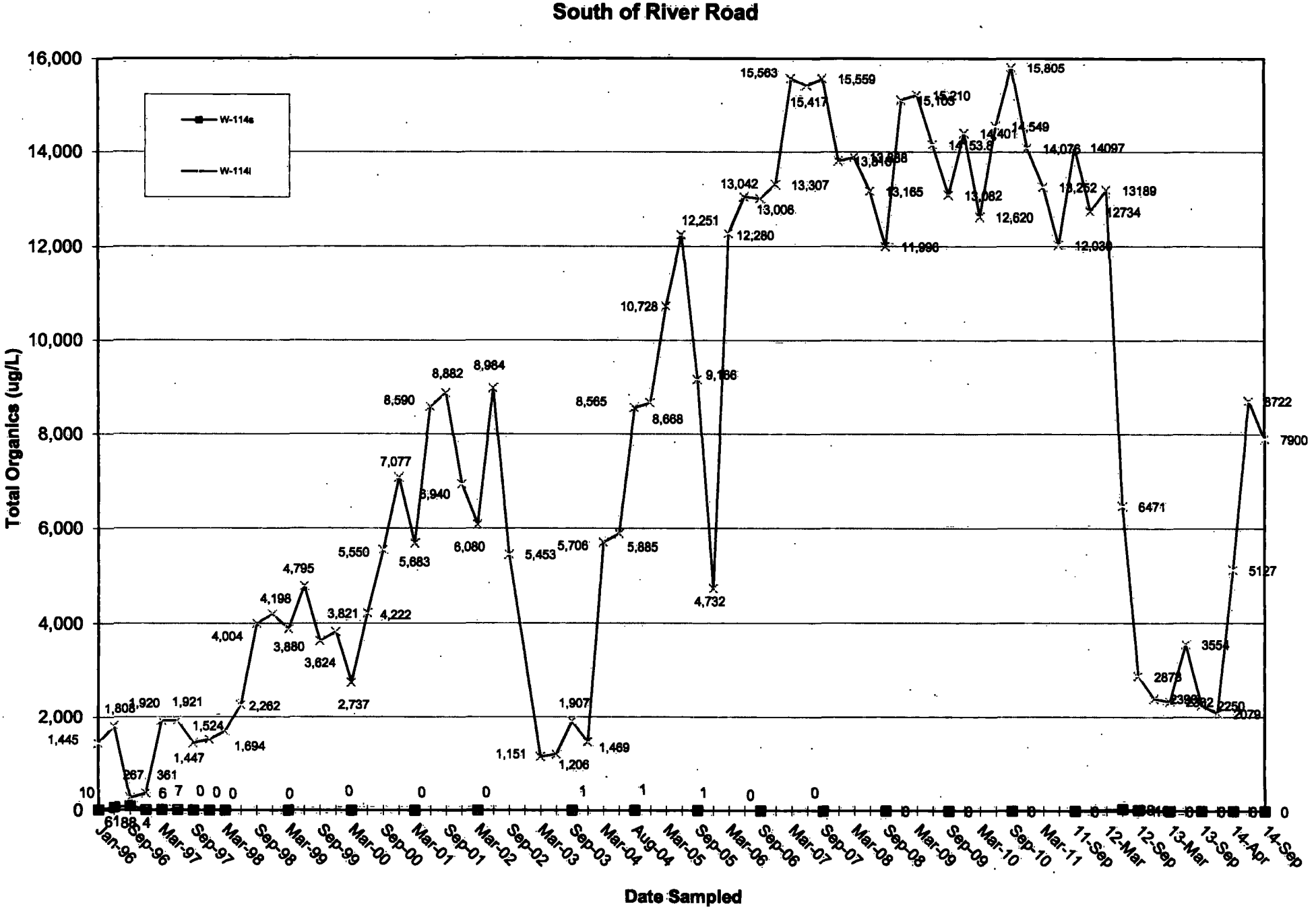
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep

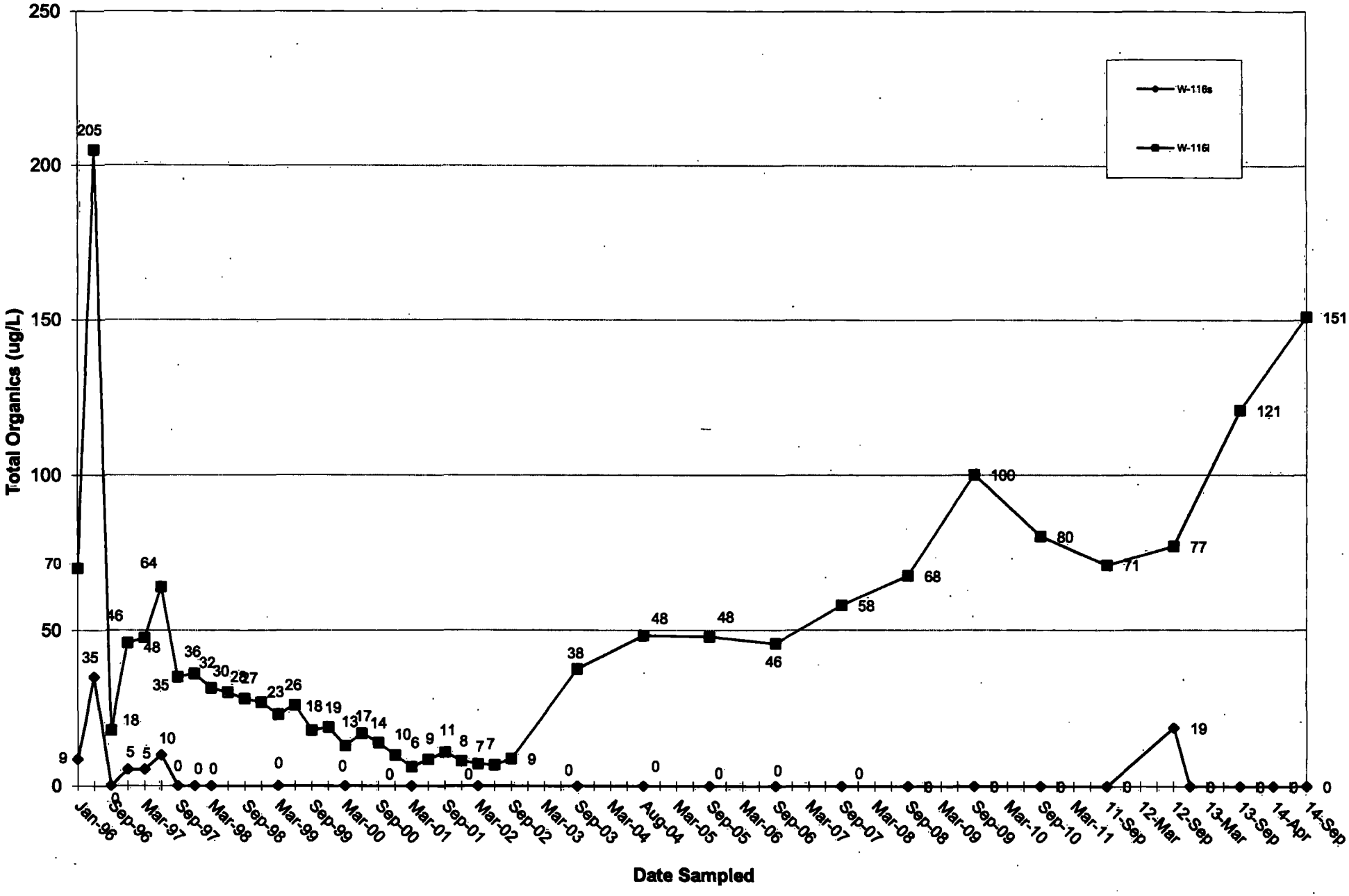

Creek Area
OW 23
Total Organics (ug/L)
Date Sampled
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
37,939
37,126
28,170
23,902
23,160
17,336
14,529
11,027
8,124
5,909
3,491
3,498
1,455
233
114
208
197
117
115
112
76
94
30
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep

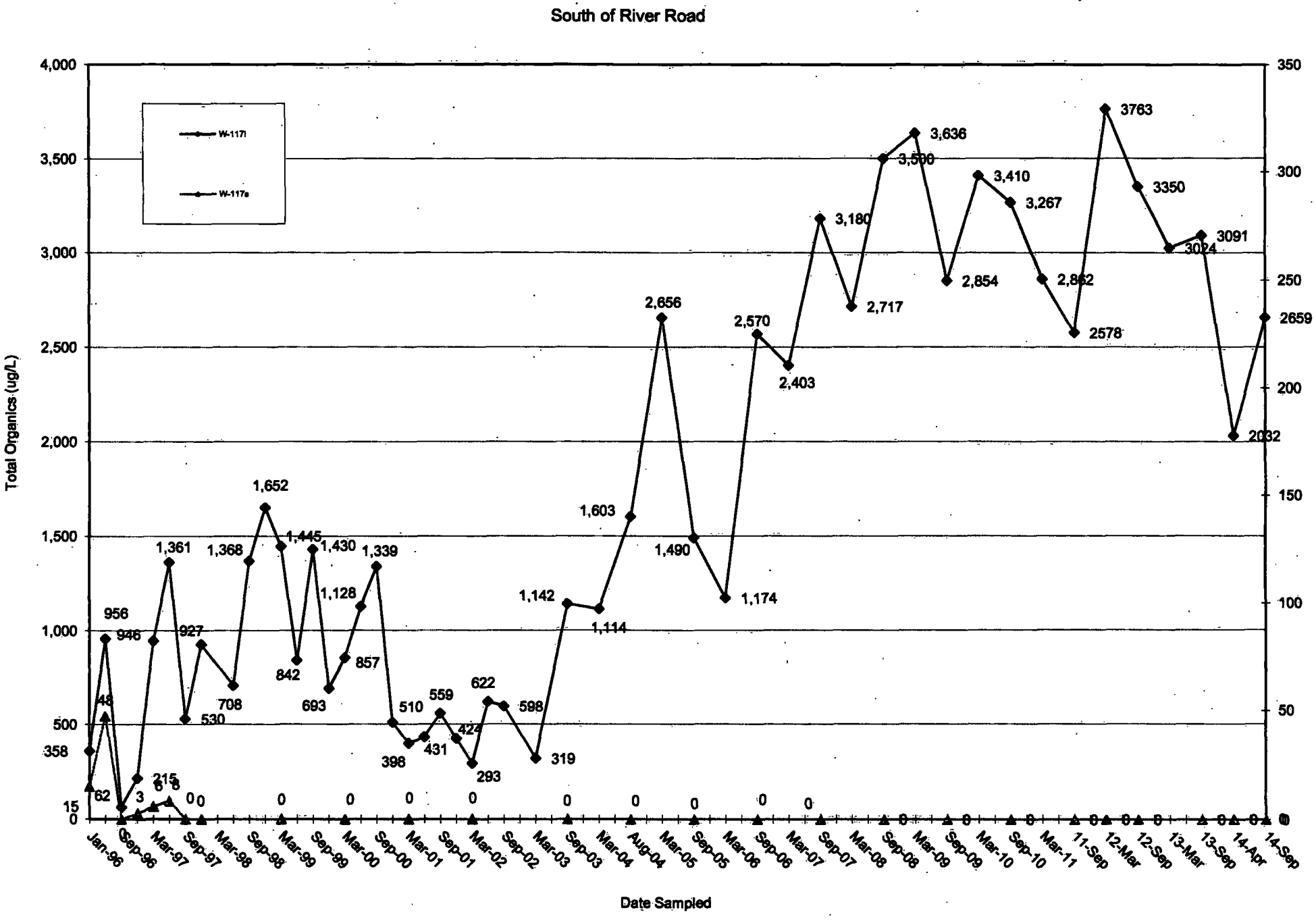
South of River Road



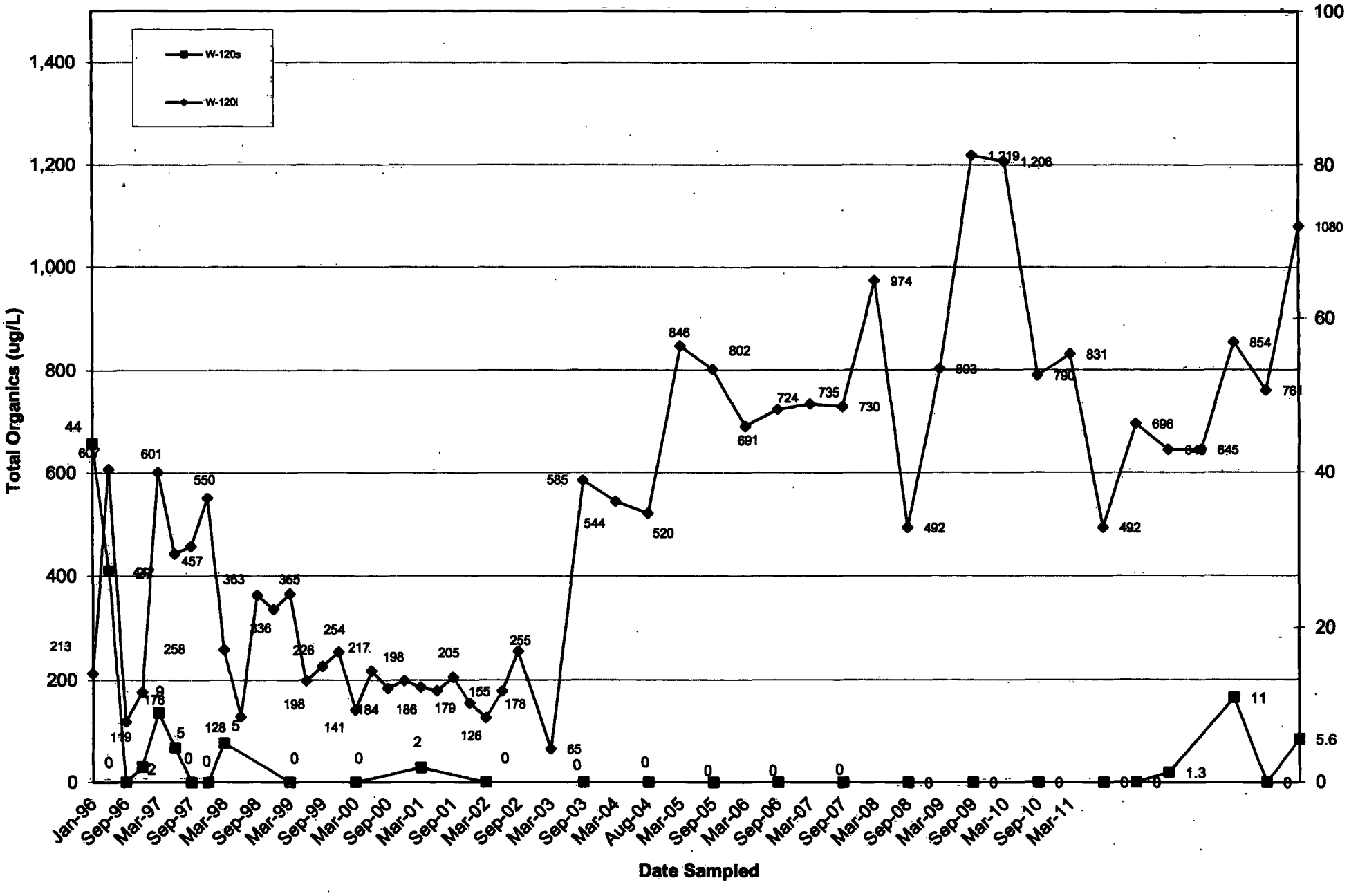

South of River Road
W-114s
W-114I
Total Organics (ug/L)
Date Sampled
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep

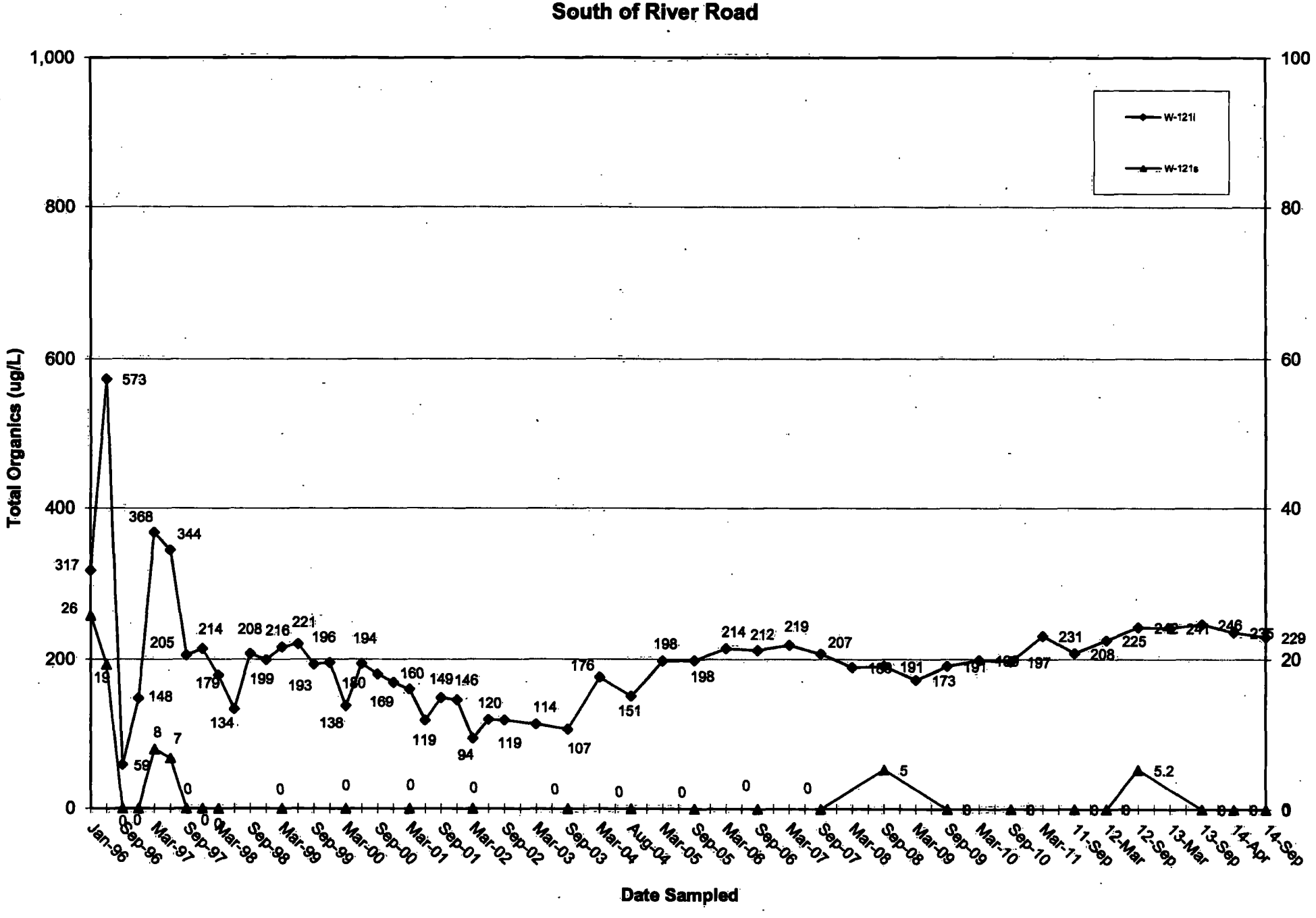
South of River Road



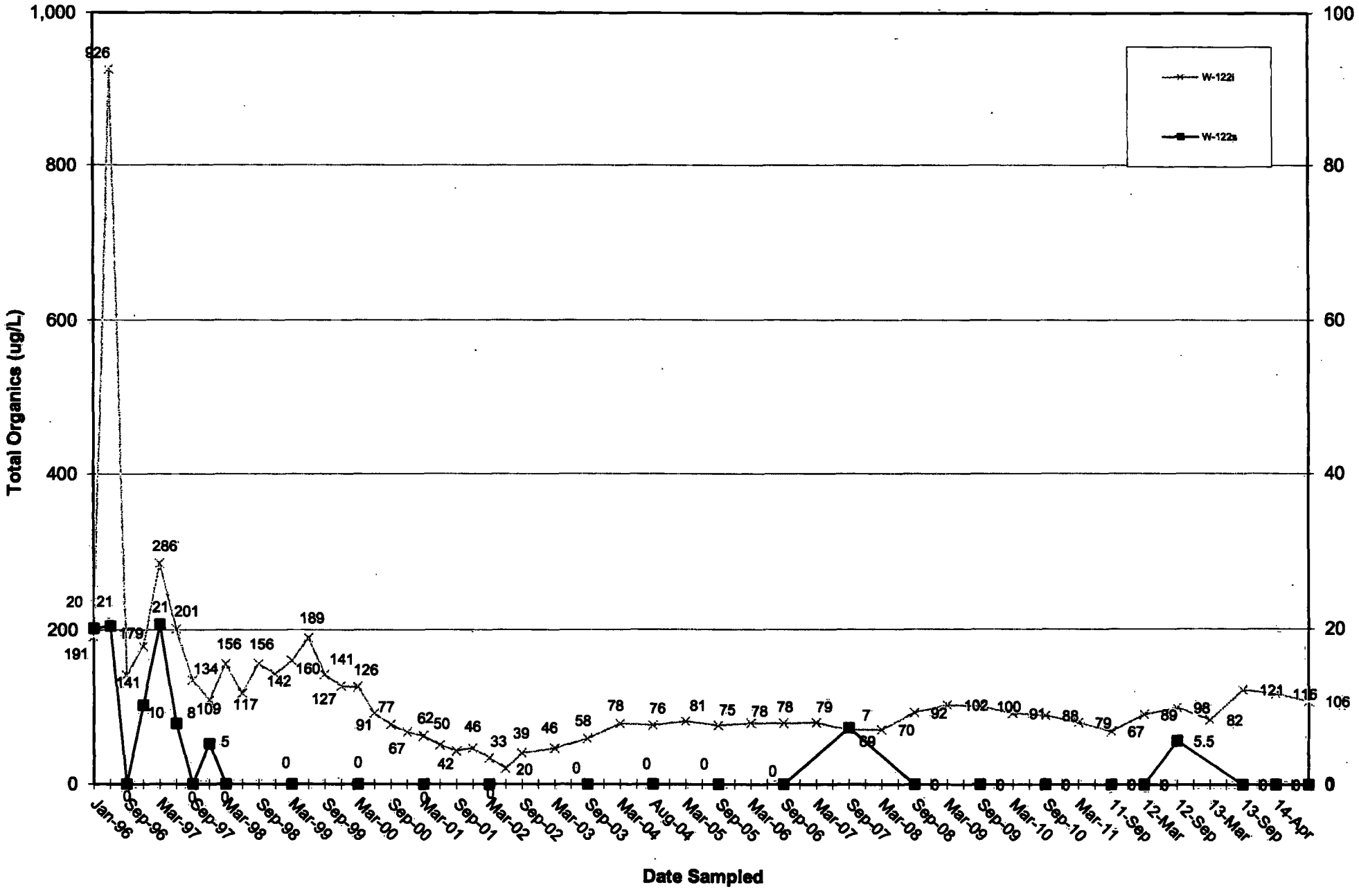

South of River Road
W-117I
W-117S
Total Organics (ug/L)
Date Sampled
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
358
15
0
350
300
250
200
150
100
50
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep
956
946
48
62
3
215
6
8
0
0
1,361
927
530
1,368
708
1,652
842
1,445
693
1,430
1,128
857
1,339
510
398
431
559
424
293
622
598
319
1,142
1,114
1,603
2,656
1,490
1,174
2,570
2,403
3,180
2,717
3,500
3,636
2,854
3,410
3,267
2,862
2578
3763
3350
3024
3091
2032
2659

South of River Road




South of River Road
Total Organics (ug/L)
1,000
800
600
400
200
0
100
80
60
40
20
0
W-121I
W-121S
573
368
344
317
205
214
208
216
221
196
194
26
148
179
199
193
160
149
146
134
138
169
119
94
120
119
114
107
176
151
198
198
214
212
219
207
191
173
231
208
225
241
246
229
8
7
59
5
5.2
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep
Date Sampled

South of River Road



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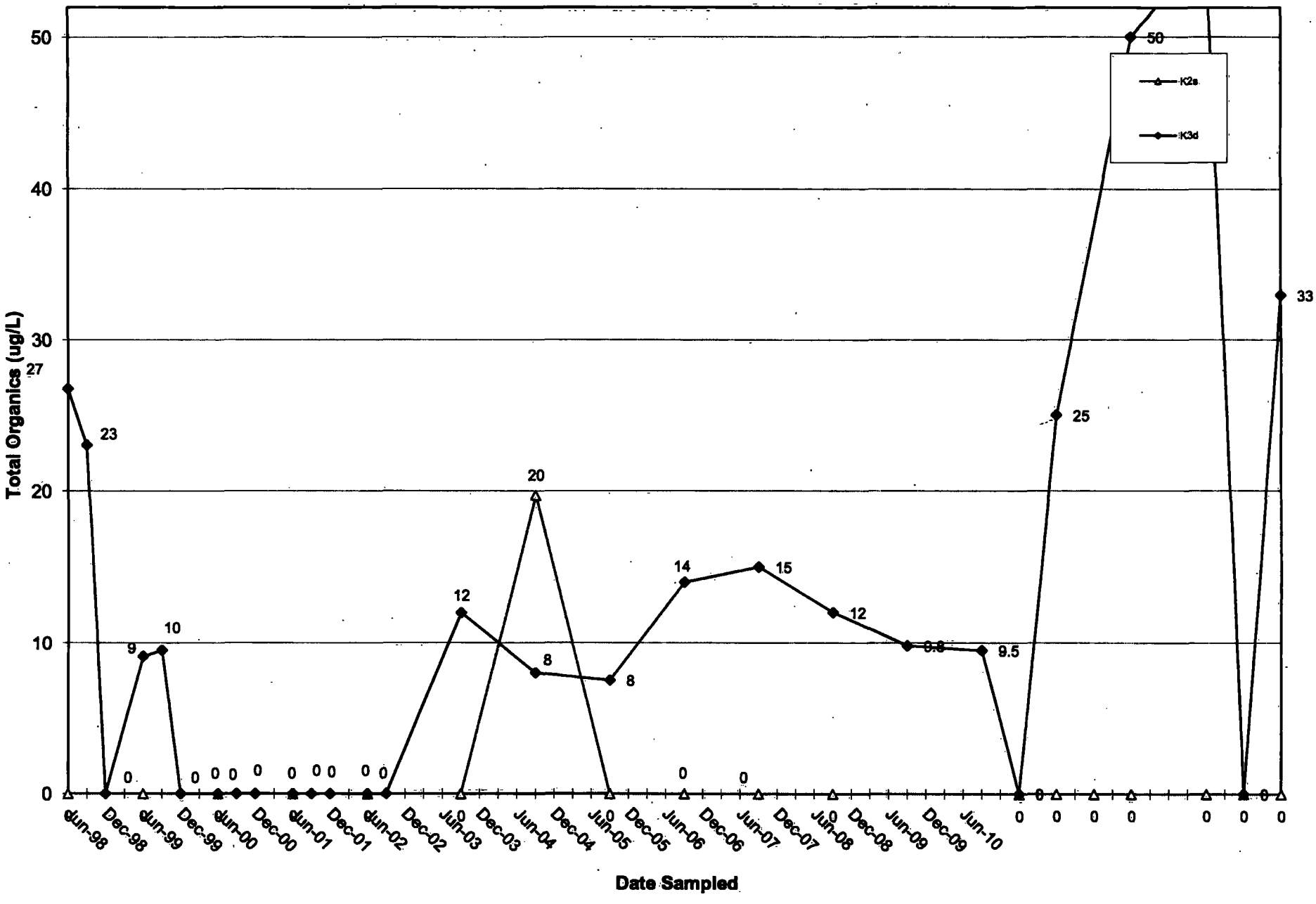
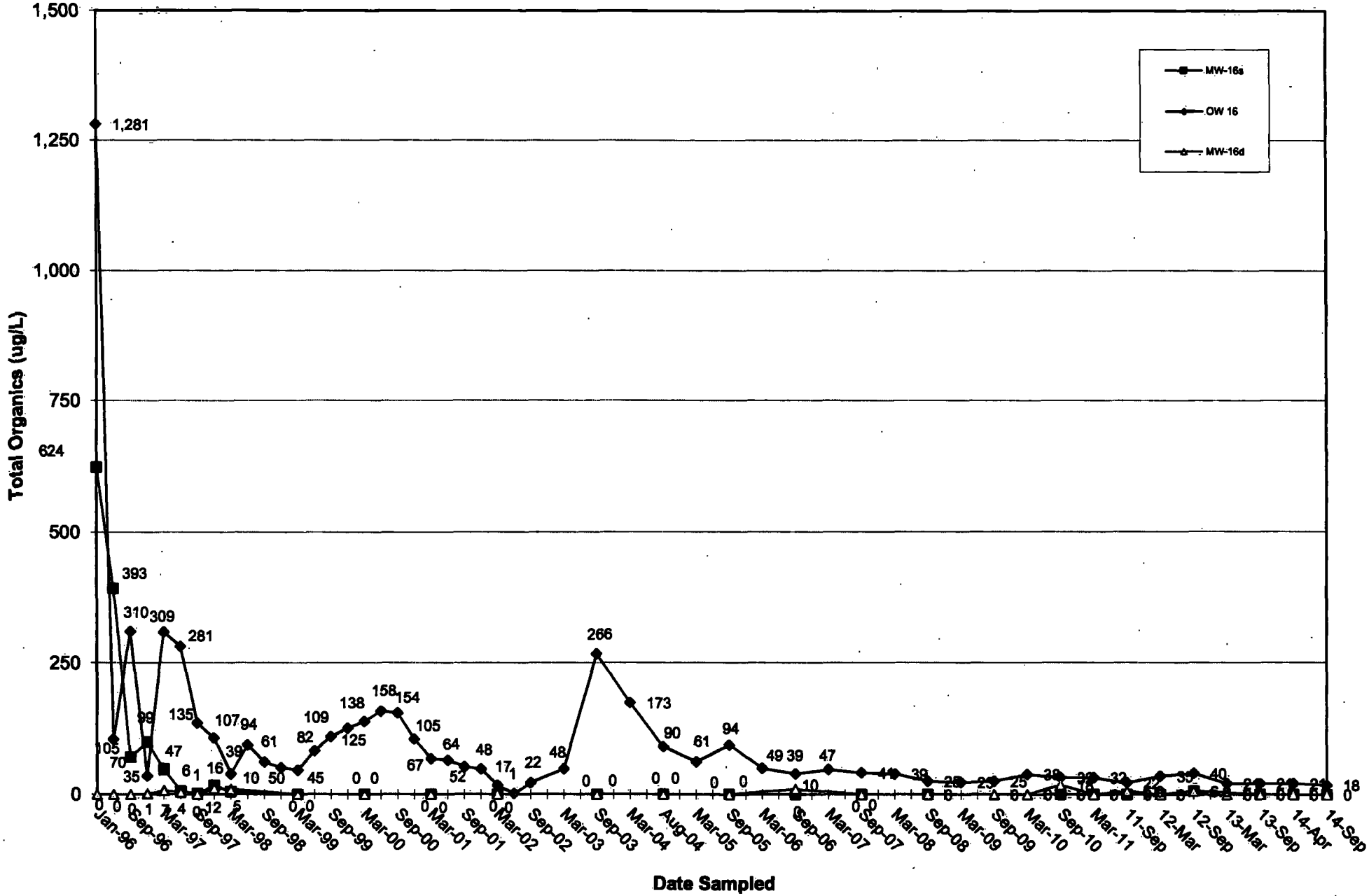
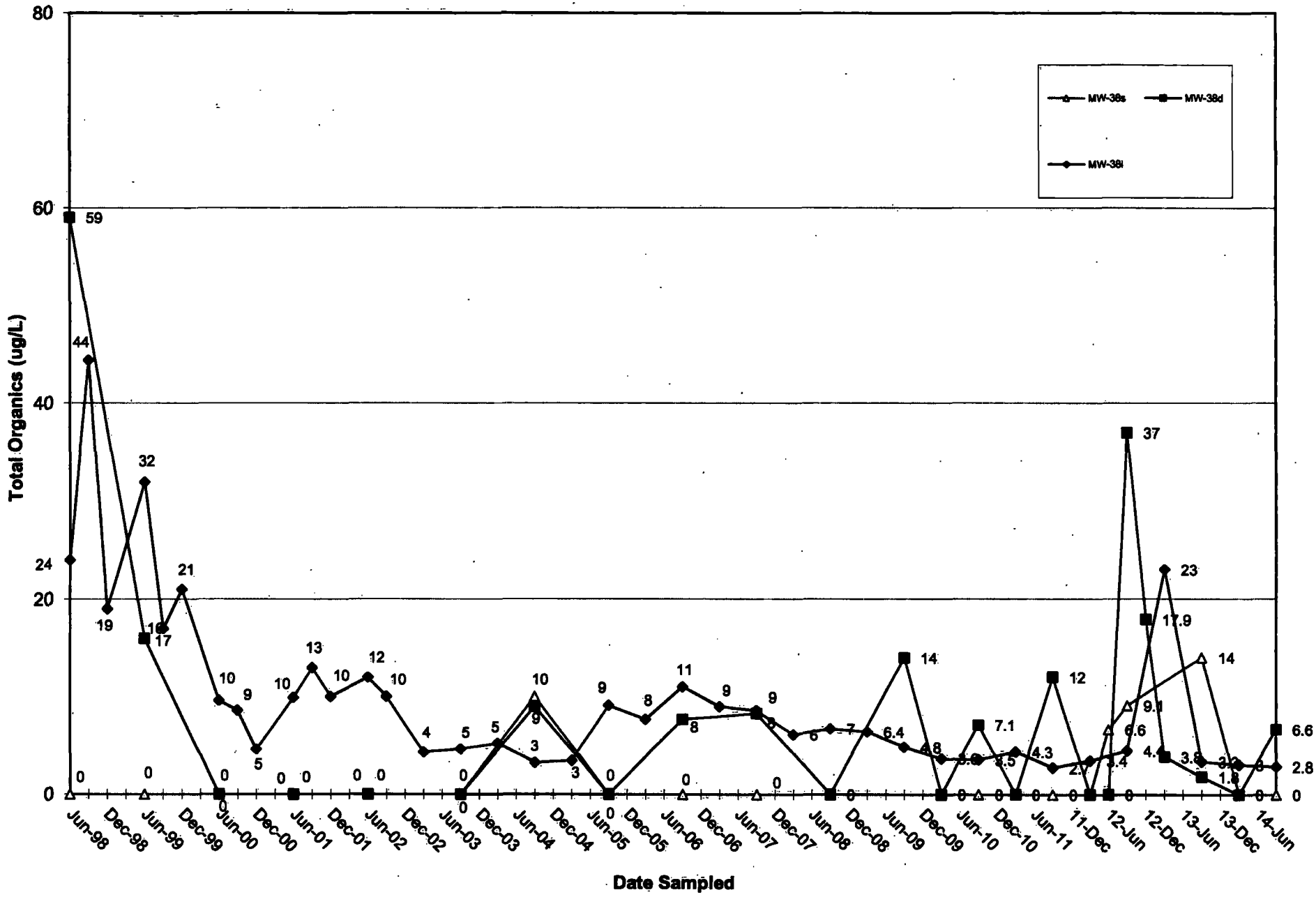


East of Little Bear Creek



East of Little Bear Creek



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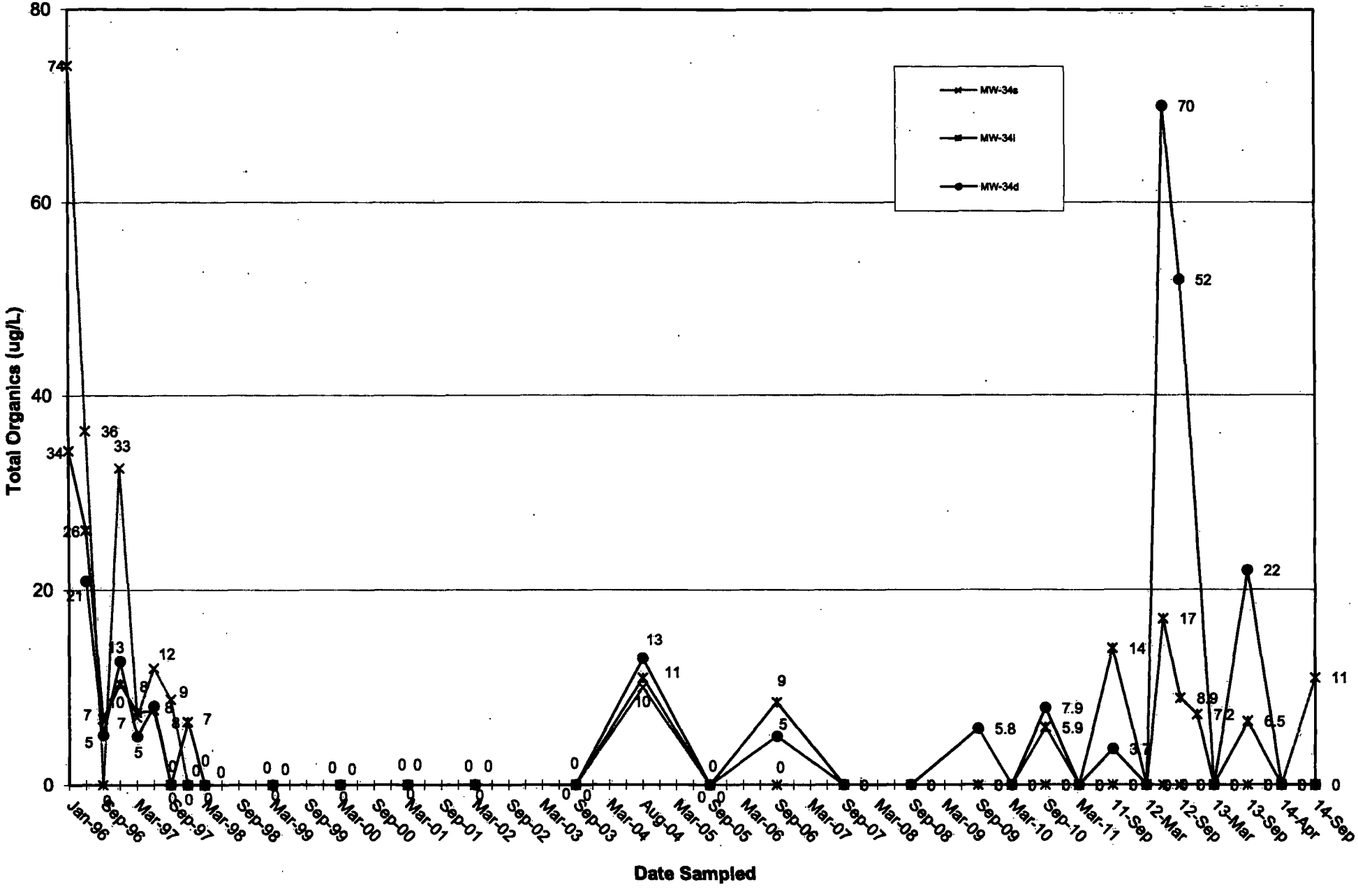

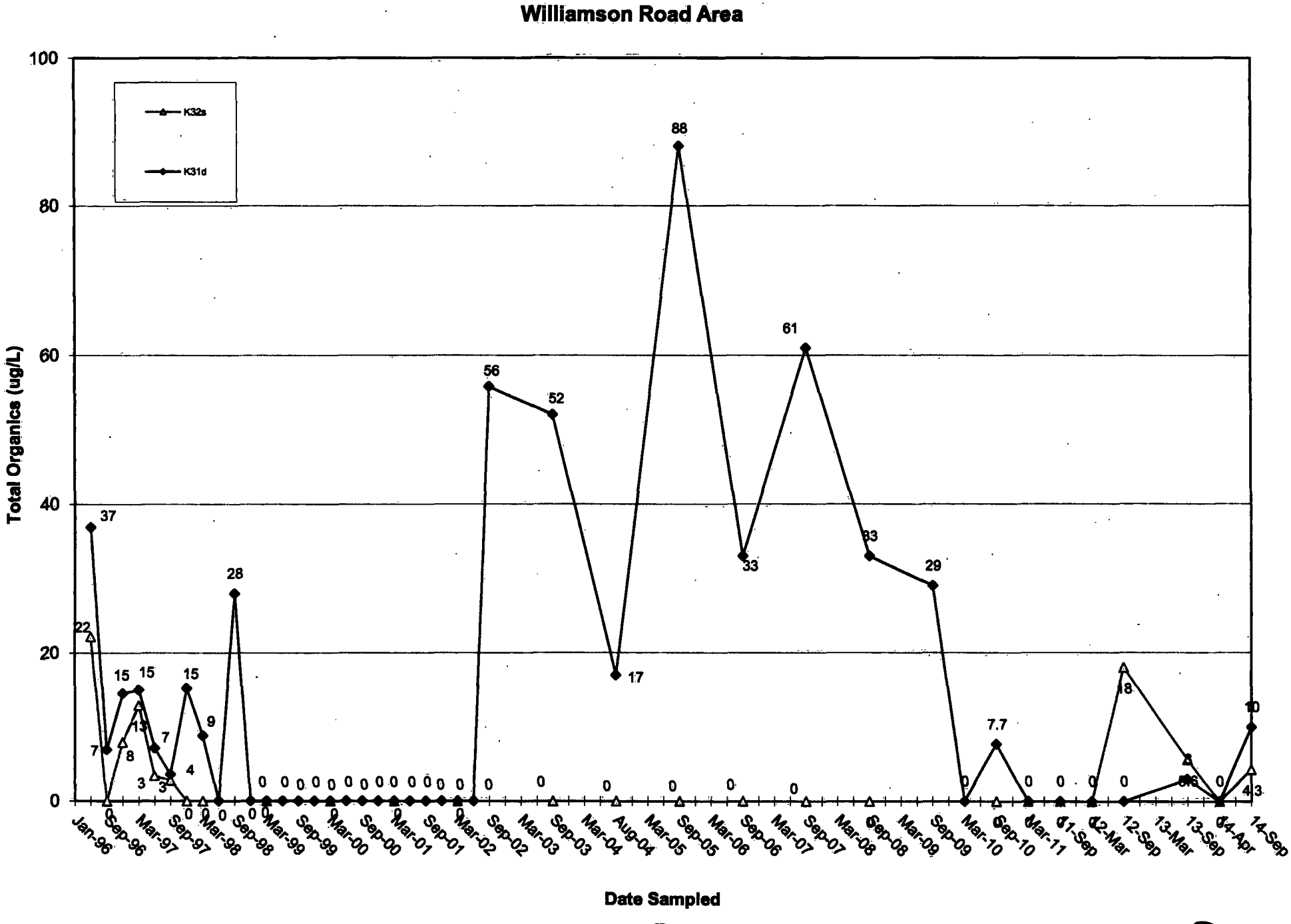
Williamson Road Area
K32s
K31d
Total Organics (ug/L)
Date Sampled
100
80
60
40
20
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
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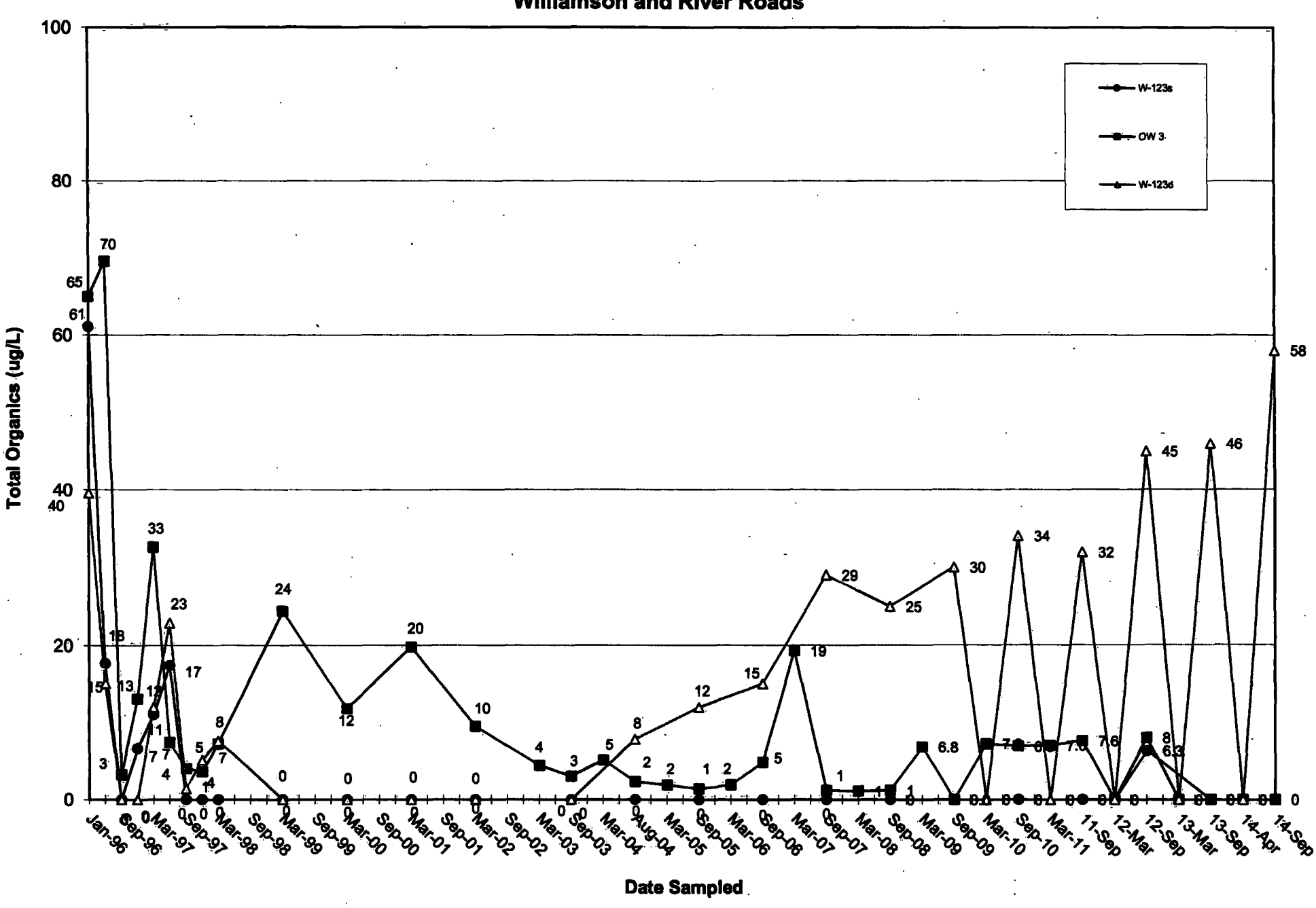
13-Mar
13-Sep
14-Apr
14-Sep


Williamson and River Roads
W-123s
OW 3
W-123d
Total Organics (ug/L)
Date Sampled
100
80
60
40
20
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
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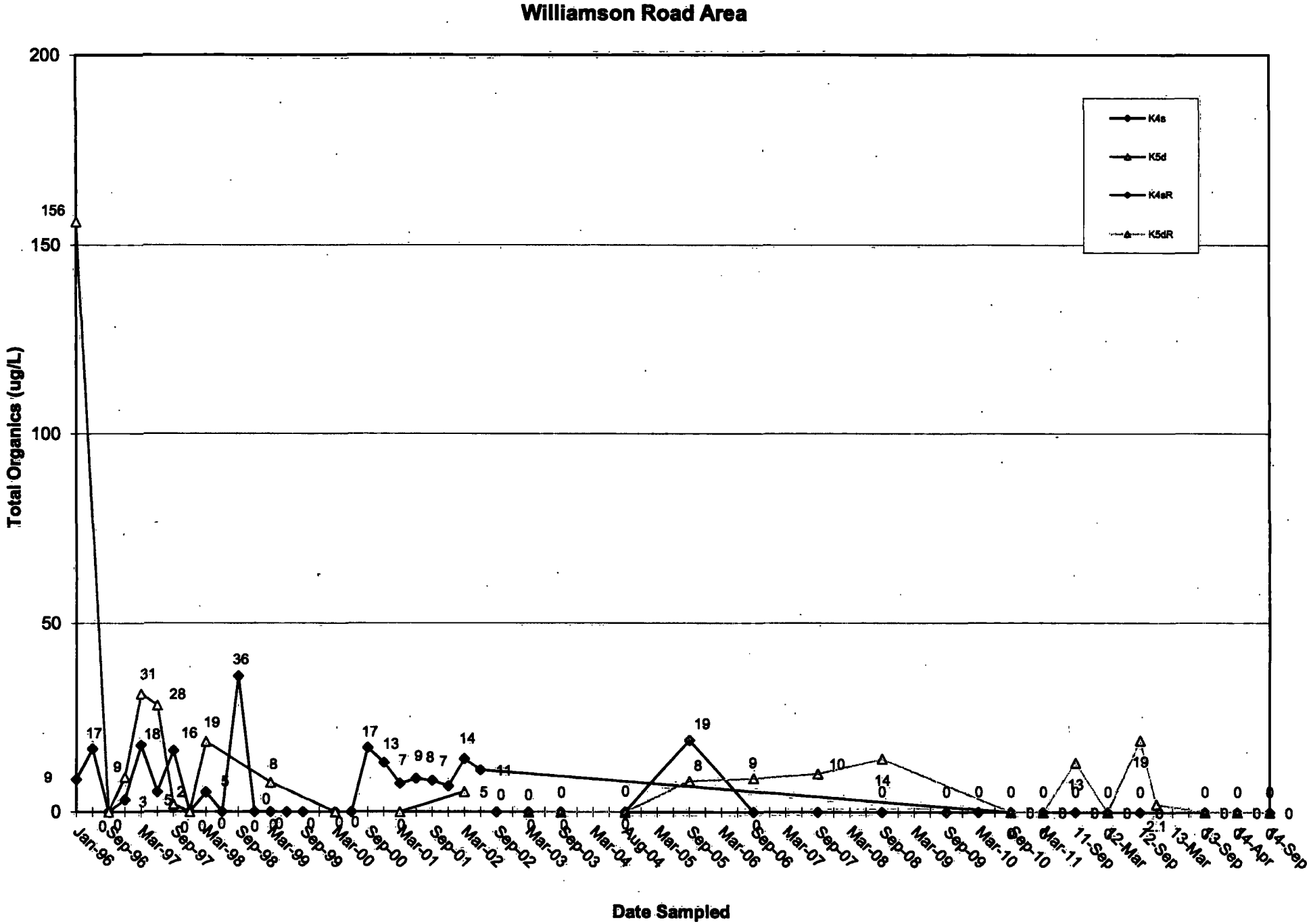
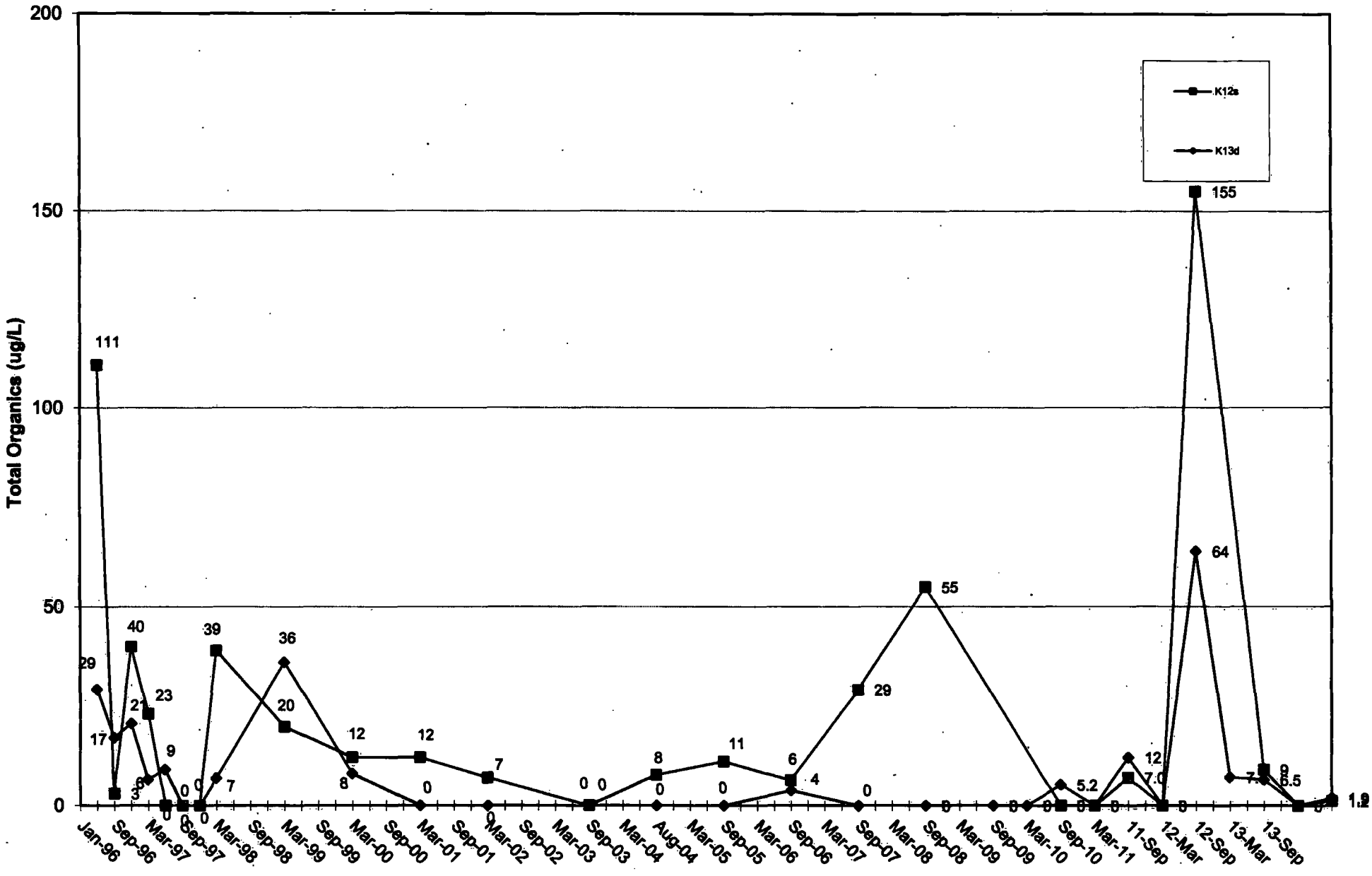
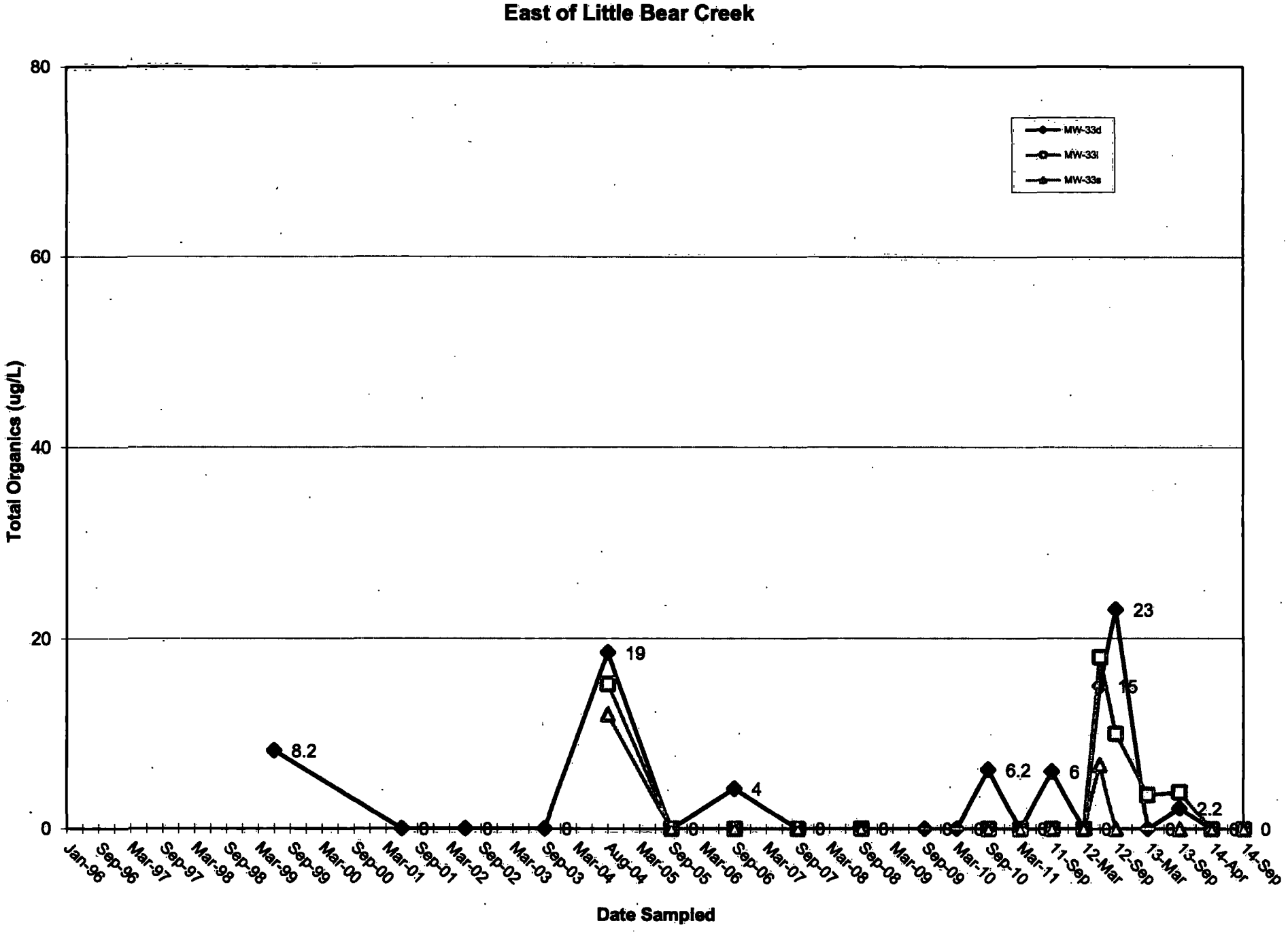
13-Mar
13-Sep
14-Apr
14-Sep


Williamson Road Area
Total Organics (ug/L)
200
156
150
100
50
9
0
K4s
K5d
K4sR
K5dR
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
11-Sep
12-Mar
12-Sep
13-Mar
13-Sep
14-Apr
14-Sep
Date Sampled

Williamson Road Area




East of Little Bear Creek
MW-33d
MW-33i
MW-33s
Total Organics (ug/L)
80
60
40
20
0
8.2
19
4
6.2
6
23
15
2.2
0
Jan-96
Sep-96
Mar-97
Sep-97
Mar-98
Sep-98
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Aug-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
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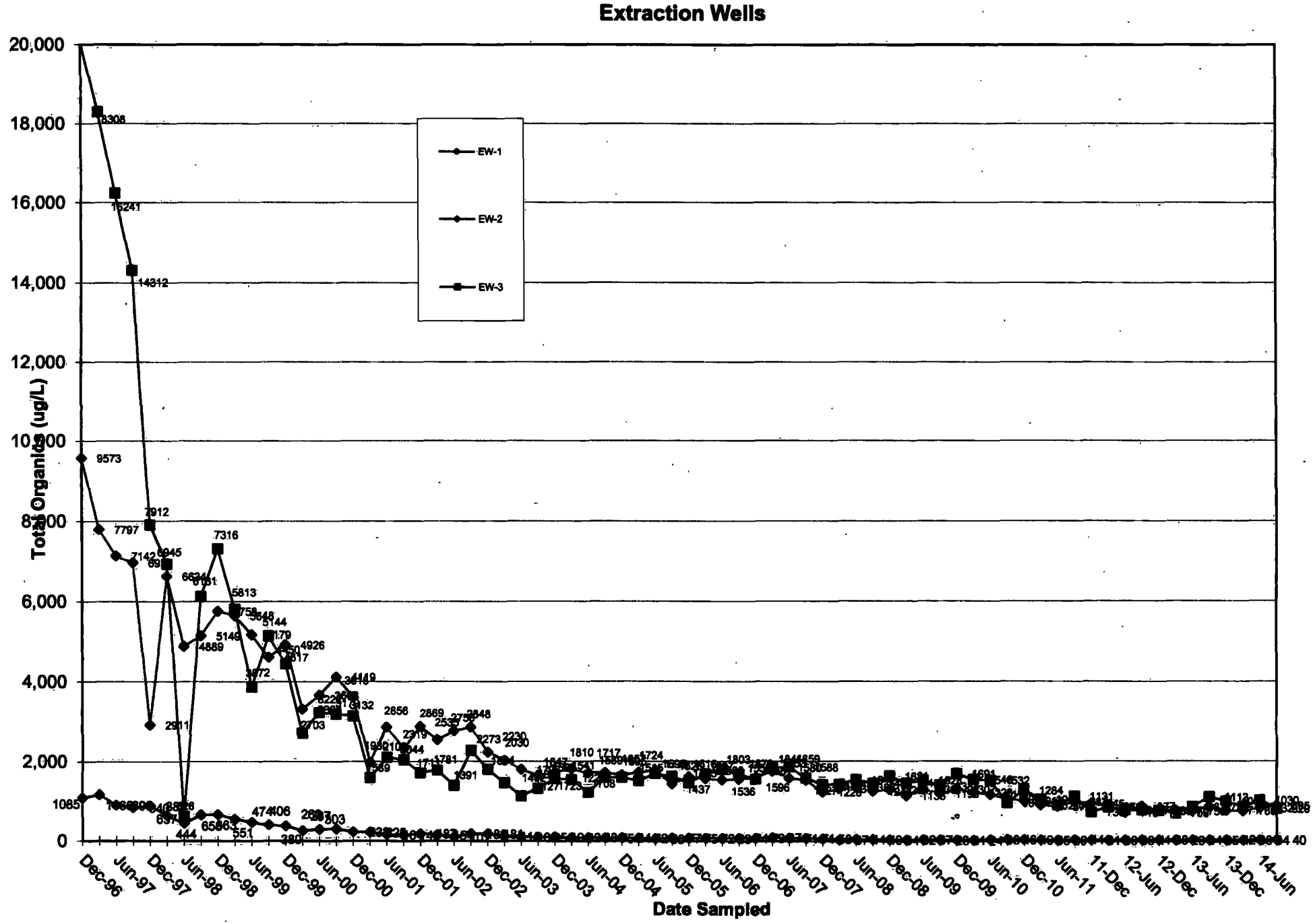
13-Sep
14-Apr
14-Sep
Date Sampled


Extraction Wells
Total Organics (ug/L)
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
EW-1
EW-2
EW-3
Dec-96
Jun-97
Dec-97
Jun-98
Dec-98
Jun-99
Dec-99
Jun-00
Dec-00
Jun-01
Dec-01
Jun-02
Dec-02
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
Dec-08
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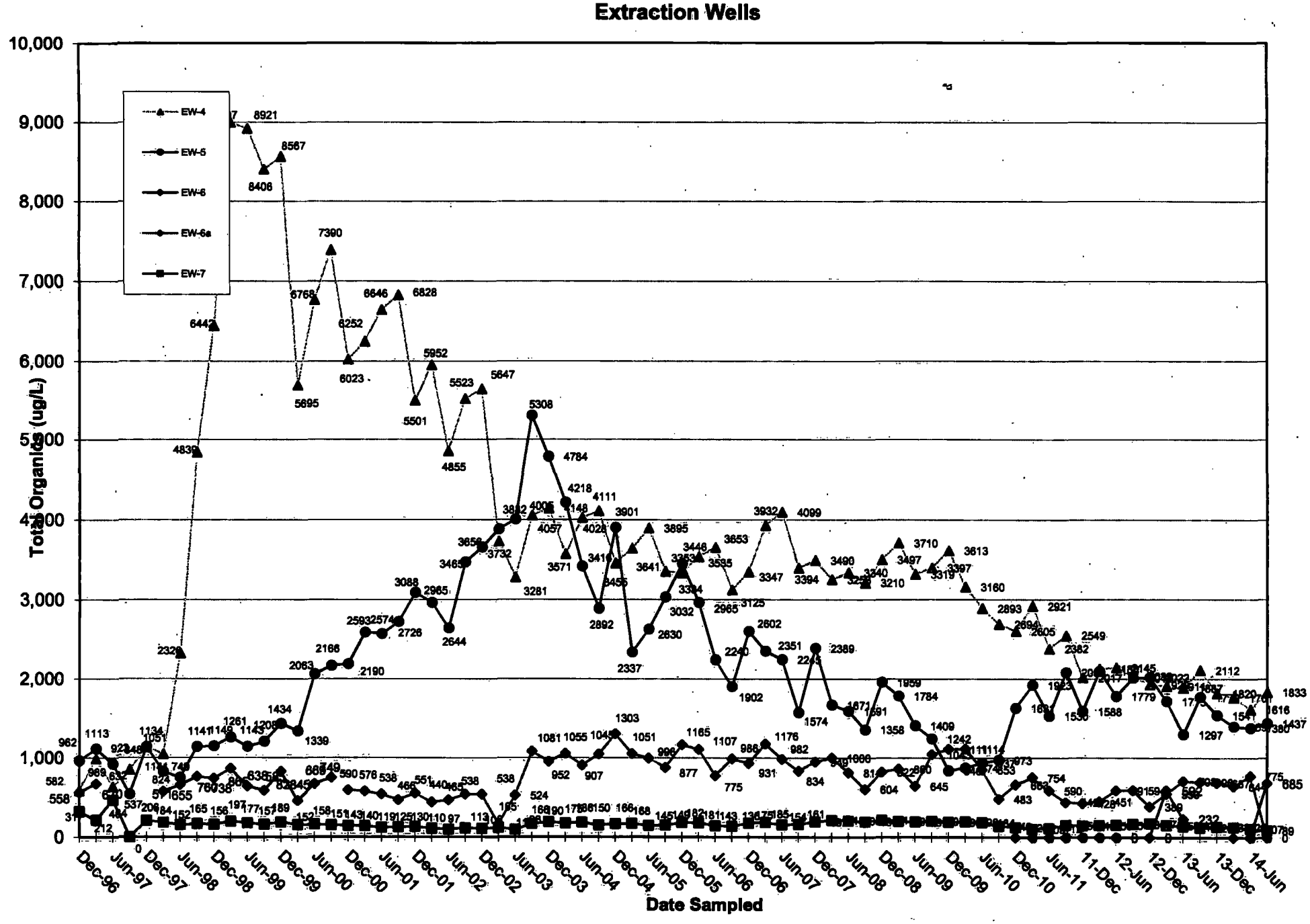
13-Jun
13-Dec
14-Jun
Date Sampled


Extraction Wells
Total Organics (ug/L)
Date Sampled
EW-4
EW-5
EW-6
EW-6a
EW-7
10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Dec-96
Jun-97
Dec-97
Jun-98
Dec-98
Jun-99
Dec-99
Jun-00
Dec-00
Jun-01
Dec-01
Jun-02
Dec-02
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
Jun-08
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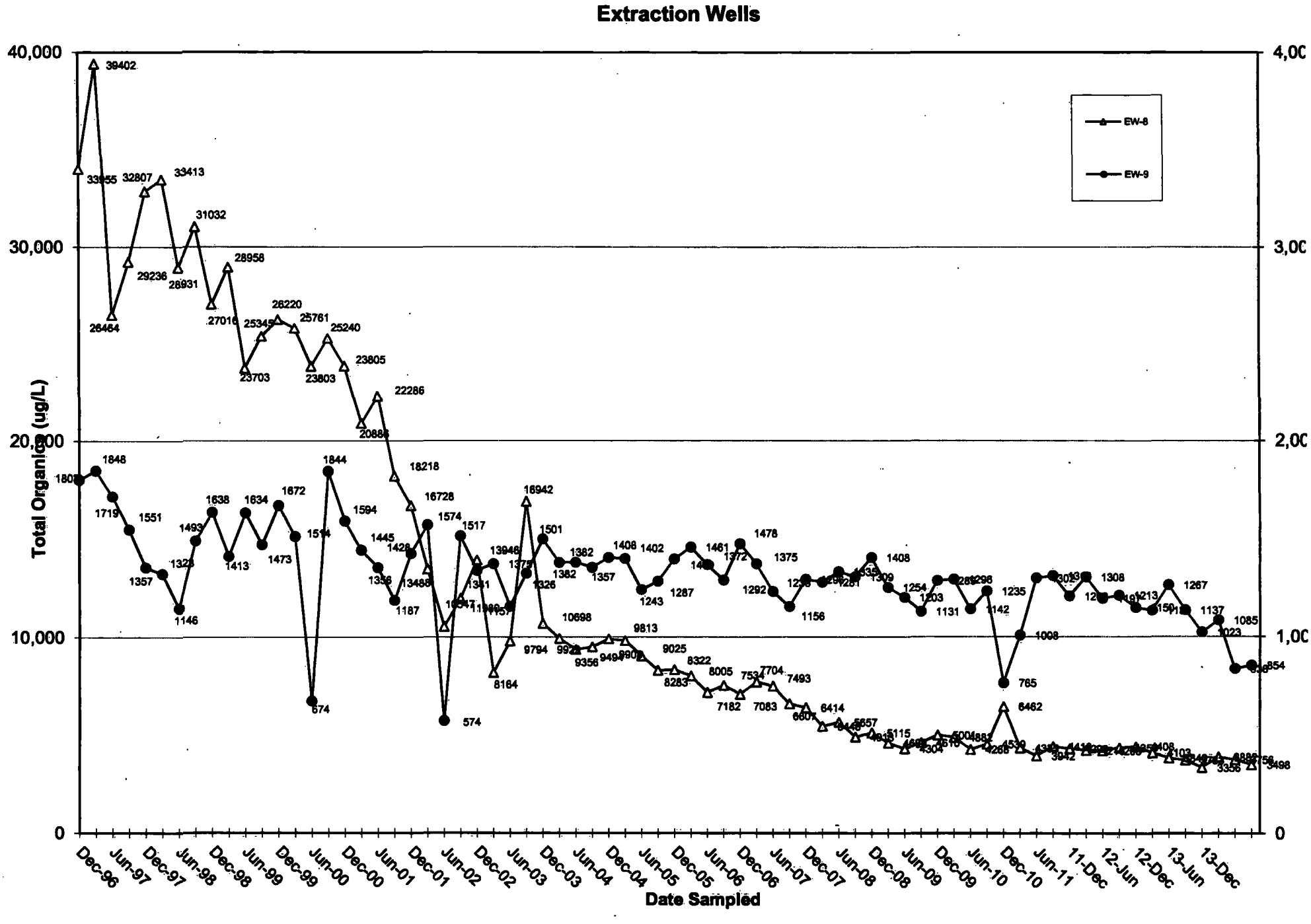
12-Dec
13-Jun
13-Dec
14-Jun


Extraction Wells
EW-8
EW-9
Total Organics (ug/L)
Date Sampled
40,000
30,000
20,000
10,000
0
4,0C
3,0C
2,0C
1,0C
Dec-96
Jun-97
Dec-97
Jun-98
Dec-98
Jun-99
Dec-99
Jun-00
Dec-00
Jun-01
Dec-01
Jun-02
Dec-02
Jun-03
Dec-03
Jun-04
Dec-04
Jun-05
Dec-05
Jun-06
Dec-06
Jun-07
Dec-07
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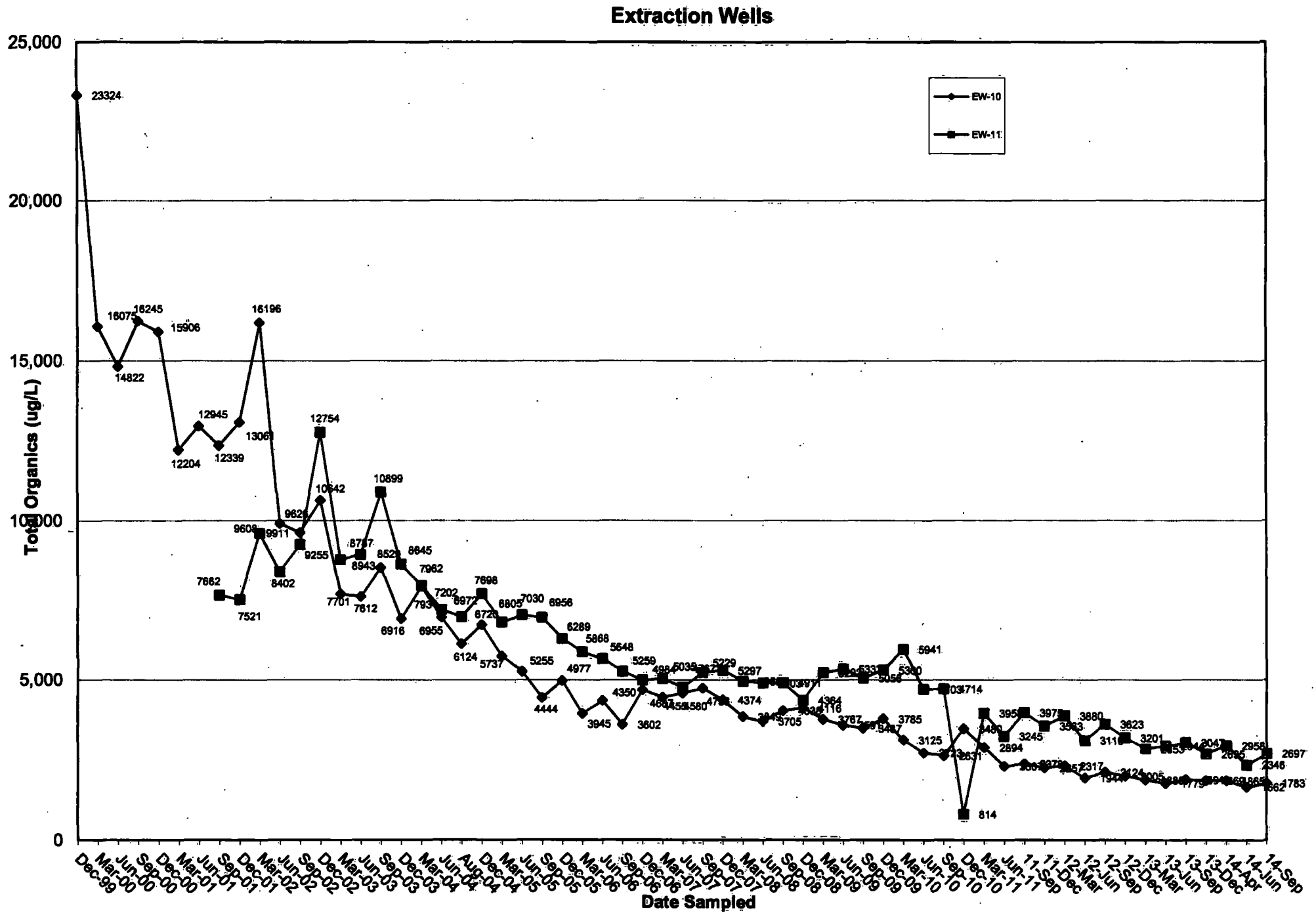
12-Jun
12-Dec
13-Jun
13-Dec


Extraction Wells
EW-10
EW-11
Total Organics (ug/L)
25,000
20,000
15,000
10,000
5,000
0
Date Sampled
Dec-99
Mar-00
Jun-00
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Aug-04
Dec-04
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Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
11-Sep
11-Dec
12-Mar
12-Jun
12-Sep
12-Dec
13-Mar
13-Jun
13-Sep
13-Dec
14-Apr
14-Jun
14-Sep

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE

DATE: November 17, 2014

TRANSMITTAL NO.: **007.14-G130085B**

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO:	FROM:	CONTRACT NO.	CHECK ONE:
MDEQ Kristi Zakrzewski	Fishbeck, Thompson, Carr & Huber Cathy Jaeger	**Y11042**	[X] This is a new transmittal [ ] This is a resubmittal of Transmittal

SPECIFICATION SEC. NO. C
(Cover only one section with each transmittal)

PROJECT TITLE AND LOCATION
OTT/STORY/CORDOVA LONG TERM O&M OF GWTF, MUSKEGON, MICHIGAN

ITEM NO. (a)	DESCRIPTION OF ITEM SUBMITTED *(Type size, model number/etc.)* (b)	MFG OR CONTR. CAT.,CURVE DRAWING OR BROCHURE NO. (c)	NO. OF COPIES (d)	CONTRACT REFERENCE DOCUMENT SPEC. PARA. NO. (e)	CONTRACT REFERENCE DOCUMENT DRAWING SHEET NO. (f)	DEQ FILING CODE (g)		
7	Groundwater Monitoring Report September 2014	Reports	4	1.8, 1.9, 6.2				
	cc: S. MacDonald							
	Jobsite File							

REMARKS:

Distribution By FTC&H
1 - B. Bouwhuis, 1 - J. Fagiolo, 1 - K. Zakrzewski, 1 - C. Graff

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

Catherine M. Jaeger

Cathy Jaeger Laboratory Manager

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED *(List by Item No.)*	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

Ott/Story Superfund Site
Groundwater Treatment Plant
Muskegon, Michigan

Groundwater Monitoring Report
September 2014

Prepared for:
Michigan Department of Environmental Quality

Project No. G130085B

FTC&H
Fishbeck, Thompson, Carr & Huber
engineers • scientists • architects • constructors

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- Table 5 QC Trip Blanks - Volatile
- Table 6 QC Method Blanks - Volatile
- Table 7 QC Method Blanks - Semivolatile
- Table 8 QC MS, MSD - Volatile
- Table 9 QC LCS - Volatile
- Table 10 QC MS, MSD– Semivolatile
- Table 11 QC LCS – Semivolatile

III. Sample Log-In Sheets
IV. Field Data Reports

ABBREVIATIONS

AVE	Average
C	Celsius
CCV	Continuing Calibration Verification Sample
CFM	Cubic Feet per Minute
COC	Chain of Custody
CU.FT.	Cubic Feet
CVS	ERA certified Calibration Verification Source
EFF	Effluent
EICP	Extracted Ion Current Profiles
EPA	Environmental Protection Agency
EW	Extraction Well
F	Fahrenheit
FID	Flame Ionization Detector
GAC	Granular Activated Carbon
GAL	Gallons
GCMS	Gas Chromatograph and Mass Spectrometer
GWTB	Groundwater Treatment Building
HRS	Hours
ICV	Initial Calibration Verification
INF	Influent
LBS	Pounds
LCD	Laboratory Control Duplicate
LCS	Laboratory Control Sample
MDEQ	Michigan Department of Environmental Quality
mg/L	Milligram per Liter
MGD	Million Gallons per Day
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MW	Monitoring Well
NA	Non-applicable
NC	Not Calculated
NTU	Nephelometric Turbidity
ORP	Oxidation – Reduction Potential
PPE	Personal Protective Equipment
PSI	Pounds per Square Inch
RF	Response Factor
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SP	Sample Port
SVOC	Semivolatile Organic Compound
TEMP	Temperature
TOU	Thermal Oxidation Unit
U	Undetected
ug/L	Micrograms per Liter (parts per billion)
VOC	Volatile Organic Compound
VOP	Variable Operations Plan
VSS	Volatile Suspended Solids

CASE NARRATIVE

SAMPLING

The seventy-fifth groundwater sampling event at the Ott/Story Superfund site began September 22, 2014. FTC&H operators collected 94 samples over a sixteen-day period. W-7d could not be sampled because the well screen collapsed during recent rehabilitation efforts. MW-34i was resampled seven days after the sampling schedule concluded. EW-6a was not operating during the sampling period due to rehabilitation, so EW-6 was sampled. Additional rehabilitation work resulted in a number of extraction wells being turned off and on during the sampling event. Samples were collected from the eleven operating extraction wells from sampling ports located on their discharge lines after between 3 and 4.25 gallons were flushed through the lines and chemical parameters were measured using portable field meters.

Fifty-two monitoring wells were sampled using the low-flow Micropurge sampling system. Bladder pumps operating on supplied compressed air were used to deliver samples to a YSI Model 556 MPS Flow Cell. Devices mounted in the flow cell measure temperature, conductivity, dissolved oxygen (D.O.), oxidation-reduction potential (ORP) and pH, which are read from the controller screen and, at some intervals, recorded on field data forms. Values for these parameters are also stored in the portable field unit software program and later downloaded to generate graphs and tables of the measured data. These graphs and tables are included in this quarter's report, along with the Groundwater Sampling Field Data Forms. Turbidity measurements were collected with a separate field meter and recorded.

Pumping rates using the bladder pumps were maintained at 400 ml/min for most of the wells. Exceptions were K-3d, W-23d, W-6d, W-13d, W-15d and W-16d, where the rate was reduced to 200 to 300 mL/min to maintain the water level in the wells during purging. Samples were collected after the monitored parameters stabilized, generally after 20-30 minutes of purging. Very little or no drawdown occurred during the period of purging for most of these wells. Exceptions, with the percent recovery of the well during the purging and sample collection period in parentheses, included K-3d (0%), W-35d (50%), W-23d (33%), W-6d (0%), W-13d (69%) and W-101d (83%). Purge volumes for these fifty-two wells ranged from 2.5 to 4.5 gallons and from 0.06 to 3.5 water columns (w.c.). Measured chemical parameters generally showed significant change during the first few minutes of purging before leveling out. D.O. concentrations for most samples started out at a few milligrams per liter (mg/L), and then quickly dropped off to nearly zero during purging. After all the monitored parameters stabilized, the bladder pump discharge line was disconnected from the flow-through cell and samples were collected.

Thirty-one wells were purged and sampled using polyethylene tubing and a peristaltic pump employing the low-flow method. Like the bladder pumps, discharge tubing was attached to the flow-through cell and the chemical parameters were recorded on field data logs at timed intervals. Values for these parameters were also stored in the portable field unit software program and later downloaded to generate graphs and tables of the measured data. These graphs and tables are included in this quarter's report, along with the Groundwater Sampling Field Data Forms.

Purge volumes ranged from 1.5 to 4.0 gallons and from 0.16 to 3.2 w.c. Pumping rates using the peristaltic pump were maintained at 400 ml/min for most of the wells. Exceptions occurred when the depth to water was great enough to reduce the pumping capacity and included MW-38s, K-13d and W-104s (200 mL/min), W-116s (250 mL/min) and MW-34i and W-106s (300 mL/min). Very little or no drawdown occurred during the period of purging for these wells, except at K-13d, which only recovered to 80& of its original water level after purging and sampling. After all the monitored parameters stabilized, the peristaltic pump discharge line was disconnected from the flow-through cell and samples were collected.

In addition to the wells with poor recovery, samples from sixteen wells were described as "cloudy" or "dirty" on the field data logs. As in prior sampling events, K-12s pumped dry during purging. Only enough water was removed from this well to take one set of chemical parameter measurements and to fill a limited number of sample bottles. No water level measurement was recorded at K-2s because the measuring tape stopped at an obstruction in the well or the top of the bladder pump before reaching water. Except for those items discussed in this summary, no other significant problems were noted during this sampling event.

SAMPLE HANDLING AND CHAIN-OF-CUSTODIES

All volatile sample vials used contained an acid preservative. All sample containers were placed on ice in a cooler in the field immediately after collection. The volatile vials and semivolatile ambers were stored in the in-house laboratory refrigerator maintained at 4°C until analysis of the samples was completed.

Monitoring well MW-34i-0914 was recollected due to the unusual presence of n,n-dimethylbenzeneamine. The recollected sample did not contain this analyte; however, bis(2-ethylhexyl)phthalate was present. The results from the later sample were reported.

SAMPLE ANALYSIS

All volatile and semivolatile samples collected during this quarterly were analyzed on-site.

The analytical procedures performed on the groundwater samples follow SW-846 Methods 8260B and 8270C. Sample analysis was performed within holding times, with Log-In Sheets maintained, and according to the referenced methods. A few problems were encountered during the analysis of the samples.

Recent rehabilitation of the monitoring wells and a few extraction wells caused a change in the analyte concentrations. Although most wells increased in concentration, W-18s and W-101i significantly decreased.

Since the September, 2012 sampling event several samples collected using the Low Flow Peristaltic Method contained a low level of the Method 8260B analyte toluene and/or the Method 8270C analyte bis(2-ethylhexyl)phthalate. With every consecutive event the levels have dropped. During this quarterly only four samples (MW-38d, K-13d, K-12s, and MW-23d) contained

toluene at diminishing concentrations and seven samples (MW-34s, MW-38s, W-5d, W-105s, W-110s, W-120s, , and W-7s) contained Bis(2-ethylhexyl)phthalate. Four random samples also contained this possible sampling contaminant (W-123d, W-35d, W-26d and the recollection of MW-34i).

Two minor calibration issues occurred during the analysis of semivolatile samples. First, the Initial Calibration Verification (ICV) source standard had a percent deviation high and outside the 25% criterion for bis(2-chloroisopropyl)ether, phenathrene, and di-n-octylphthalate. The ICV was immediately reanalyzed and generated acceptable results for these analytes; however, in the reanalysis pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were high and outside the 25% criterion. Four of the five samples (W-18s, W-101s, W-101d, and W-101i) analyzed after this ICV were being reanalyzed for noncompliant surrogate recoveries and were analyzed earlier at multiple dilutions. The reanalyses generated acceptable surrogate recoveries and the results were reported from this data. Although these analytes increased in sensitivity and have never been detected in any sample, the reporting limit for these analytes must be considered estimated and is flagged with an asterisk "*." The fifth sample analyzed after this ICV was a recollection of a sample, MW-34i-0914.

In a last calibration, a Continuing Calibration Verification (CCV) standard had a percent deviation low and outside the 25% criterion for 4-nitroaniline. The only sample analyzed after this CCV was the recollected aliquot of sample MW-34i-0914. Although this analyte has never been detected in any sample, the reporting limit for this analyte must be considered estimated and is flagged with an asterisk "*."

Two samples were analyzed at an initial dilution due to suspected high concentrations of target analytes. For these samples, all results flagged with a "U" had raised detection limits. The detection limits for the undetected results are raised by the following dilution factors:

SAMPLE ID	DILUTION FACTOR	METHOD
W-101s-0914	10x	8260B
	5x	8270C
W-101d-0914	5x	8260B

QUALITY CONTROL SUMMARY

The volatile trip blanks did not contain any target analytes at or above the reported detection limits.

The volatile method blanks did not contain any target analytes at or above one-half the reported detection limits.

The semivolatile method blanks did not contain any target analytes at or above one-half the reported detection limits.

Analysis of surrogates was performed on all volatile and semivolatile samples. All percent recoveries meet EPA requirements for validity, with a few exceptions. The Method 8260B 1,2-dichlorobenzene-d_4 surrogate recovery was high and outside quality control limits for samples, W-17s, UW-1, W-101s, W-101d, EW-8, EW-10, and EW-11. The surrogate interference was due to high concentrations of 1,2-dichlorobenzene in the samples. Reanalysis of the samples at a greater dilution eliminated the matrix interference and generated acceptable percent recoveries for this surrogate.

The Method 8260B surrogate toluene-d_8 recovered high outside the quality control limits in sample W-17d-0914. Since this surrogate generated acceptable recoveries in a lesser dilution of the sample this is considered an isolated incident.

The Method 8270C surrogate recovery for 2,4,6-tribromophenol was outside the quality control limits in sample MW-38d-0914. Reanalysis of the sample did not change the outcome; therefore, matrix interference is suspected.

The Method 8270C nitrobenzene-d_5 surrogate recovery was outside the quality control limits in samples W-114i-0914 and Dup-7-0914. Since these samples were collected as a duplicate pair, matrix interference is suspected.

The Method 8270C surrogate recovery for 2-fluorobiphenyl was outside the quality control limits in sample W-117i-0914 and W-101d-0914 and the 8270C surrogate recoveries for nitrobenzene-d_5 and 2-fluorobiphenyl were outside the quality control limits in sample W-120s-0914. Reanalysis of theses samples did not change the outcome; therefore, matrix interference is suspected.

The Method 8270C surrogate recoveries for phenol-d_6 and 2-fluorobiphenyl were outside the quality control limits in sample W-124s-0914 and the Method 8270C p-terphenyl-d_{14} surrogate recovery was outside the quality control limits in sample W-102s-0914. Reanalysis of these samples did not change the outcome; therefore, matrix interference is suspected.

At a minimum, a laboratory control sample (LCS) and matrix spike (MS) were analyzed along with the samples to provide a measure of bias and accuracy. In all cases, either a laboratory control sample/laboratory control sample duplicate (LCD) pair and/or a matrix spike/matrix spike duplicate (MSD) pair were analyzed to provide a measure of precision. All laboratory control sample and laboratory control sample duplicate recoveries were within quality control limits, with the following exceptions:

The Method 8270C analyte 4-nitrophenol had an RPD outside the quality control windows in the LCS/LCD pair, (LS/LD092901) and the Method 8270C analyte 2,4-dinitrophenol had an RPD outside the quality control windows in the LCS/LCD pair, (LS/LD100601). Since an acceptable RPD was generated between the MS/MSD pairs, no data requires qualification.

The laboratory control sample (LD100701) had a low percent recovery, resulting in an out of control RPD for the Method 8270C analytes 2,4,6-trichlorophenol and pentachlorophenol. Since LCD, MS, and MSD percent recoveries were within acceptable criterion, indicating good accuracy, no further corrective action was taken. Also in this QC set, the analytes 2,4,5-trichlorophenol 2,4-dinitrophenol, 4-nitrophenol, and 2-methyl-4,6-dinitrophenol had an RPD outside the quality control windows in the LCS/LCD pair. Since an acceptable RPD was generated between the MS/MSD pair, no data requires qualification.

Duplicate field samples were taken for every 10 wells sampled for a total of 12. The reproducibility between duplicates was very good. All other discrepancies can be attributed to differences at low concentrations or dilutions between the samples and their corresponding blind duplicates.

A matrix spike and matrix spike duplicate were taken for every 20 wells sampled for a minimum total of 9. An evaluation of matrix spike and matrix spike duplicate quality control results follows:

W-120i-0914

The Method 8260B analyte, tetrahydrofuran had poor recoveries due to the high concentration of this analyte in the unspiked sample. The results could not be calculated and the analytes are flagged with "MI", indicating matrix interference.

The Method 8270C analyte, aniline had poor recoveries due to the high concentration of this analyte in the unspiked sample. The results could not be calculated and the analytes are flagged with "MI", indicating matrix interference. Also in this QC set, the relative percent difference between the matrix spike and matrix spike duplicate was out of control when compared to the control limit for the analyte, 2,4,-dinitrophenol. Since all spike recoveries and the RPD between the LCS/LCD pair was within acceptable criteria, no further corrective action was taken.

MW-12s-0914

The Method 8270C analytes, 2,4-dinitrophenol, 4-nitrophenol, and 2-methyl-4,6-dinitrophenol, had a relative percent difference between the matrix spike and matrix spike duplicate out of control when compared to the control limits. Since all spike recoveries and the RPD between the LCS/LCD pair was within acceptable criteria, no further corrective action was taken.

OW-9d-0914

The Method 8270C analyte n,n-dimethyaniline had a high percent recovery, resulting in an out of control RPD in the MSD. Since the LCS, LCD, and MS percent recoveries and the LCS/LCD pair RPD were acceptable, no further corrective action was taken. Also in this QC set, the analytes 2,4-dinitrophenol and 4-nitrophenol had an RPD outside the quality control windows in the MS/MSD pair. Since an acceptable RPD was generated between the LCS/LCD pair, no data requires qualification.

TW-A-0914

The Method 8260B analytes, dichlorodifluoromethane and chloromethane recovered high and outside the control limits in the matrix spike duplicate. Since the LCS, LCD, and MS generated acceptable recoveries, no further corrective action was taken.

The Method 8270C analytes, nitrobenzene and n,n-dimethylaniline had poor recoveries due to the high concentration of n,n-dimethylaniline in the unspiked sample. The results could not be calculated and the analytes are flagged with "MI", indicating matrix interference.

W-17d-0914

The Method 8260B analytes, vinyl chloride, 1,2-dichloroethane, and 1,2-dichlorobenzene had poor recoveries due to the high concentration of these analytes in the unspiked sample. The results could not be calculated and the analytes are flagged with "MI", indicating matrix interference.

The Method 8270C analytes, nitrobenzene, 2-methylphenol, and n,n-dimethylaniline had poor recoveries due to the high concentration of n,n-dimethylaniline in the unspiked sample. The results could not be calculated and the analytes are flagged with "MI", indicating matrix interference. Also in this QC set, the relative percent difference between the matrix spike and matrix spike duplicate was out of control when compared to the control limit for the analyte, n-ethylaniline. Since all spike recoveries and the RPD between the LCS/LCD pair was within acceptable criteria, no further corrective action was taken.

EW-1-0914, EW-7-0914, OW-16-0914, W-123d-0914, W-6d-0914, W-105i-0914, W-103s-0914, and UW-1-0914

All quality control elements were within the established criteria.

Qualifier Key for lab sample results and QA/QC results follows:

U - Compound not detected / J - Estimated value / B - Analyte present in blank
E - Exceeded the range of calibration / D - Quantified from a dilution
* Results do not meet QC acceptance criteria / X - Laboratory defined qualifier

LE 1

OTT/STORY/CORDOVA SUPERF[illegible]SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

EXTRACTION WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/22/14 09/23/14 EW-1-0914	09/22/14 09/23/14 EW-2-0914	09/22/14 09/23/14 EW-3-0914	09/22/14 09/23/14 EW-4-0914	09/22/14 09/23/14 EW-5-0914	09/22/14 09/23/14 EW-6-0914	09/22/14 09/24/14 EW-7-0914	09/22/14 09/23/14 EW-8-0914	09/22/14 09/23/14 EW-9-0914	09/22/14 09/23/14 EW-10-0914	09/22/14 09/23/14 EW-11-0914
Dichlorodifluoromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	11	7.4	8.8	20	U	U	36	200	32	17
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	6.0	100	8.7	2.8	U	25	4.6	7.6	9.2
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	4.0	9.2	9.5	2.9	U	U	15	14	3.8	9.0
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	1.6	U	U	1.5	U	U	4.6	U	1.2	U
1,1-Dichloroethane	1.0	U	7.0	10	31	5.9	U	U	61	11	17	28
cis-1,2-Dichloroethene	1.0	U	8.2	6.7	16	160	U	U	170	1.0	100	28
Chloroform	1.0	U	U	U	U	U	U	U	1.4	U	7.9	4.2
Tetrahydrofuran	5.0	U	6.8	13	82	77	180	42	6.0	35	U	U
1,1,1-Trichloroethane	1.0	U	U	U	3.9	U	U	U	120	U	54	52
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	100	9.6
1,2-Dichloroethane	1.0	3.0	4.9	U	U	U	U	8.6	15	1.5	37	16
Benzene	1.0	1.4	30	98	310 D	250 D	38	3.7	87	18	5.8	55
Trichloroethene	1.0	U	2.4	U	U	2.2	U	U	9.3	1.0	46	2.7
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	21	33	28	62	1.2	U	1100 D	19	67	76
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	1.2	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	4.8	U	190	2.1
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	8.9	12	24	20	25	U	200 D	2.5	32	130
Ethylbenzene	1.0	U	U	U	1.3	U	U	U	11	U	7.9	4.6

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
EXTRACTION WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/22/14 09/23/14 EW-1-0914	09/22/14 09/23/14 EW-2-0914	09/22/14 09/23/14 EW-3-0914	09/22/14 09/23/14 EW-4-0914	09/22/14 09/23/14 EW-5-0914	09/22/14 09/23/14 EW-6-0914	09/22/14 09/24/14 EW-7-0914	09/22/14 09/23/14 EW-8-0914	09/22/14 09/23/14 EW-9-0914	09/22/14 09/23/14 EW-10-0914	09/22/14 09/23/14 EW-11-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	40	U	58	17
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	5.0	U	11	14
1,4-Dichlorobenzene	2.0	U	U	3.2	U	U	U	U	40	U	33	54
1,2-Dichlorobenzene	2.0	U	7.0	12	5.5	U	U	U	230 D	U	220 D	320 D
Total Volatiles		4.4	113	211	620	610	247	54	2182	308	1031	848

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	105	95	106	105	99	100	96	102	98	99	99
Toluene-d8	50	103	101	95	98	99	100	99	96	100	100	100
4-Bromofluorobenzene	50	101	99	100	96	95	95	94	98	93	96	95
1,2-Dichlorobenzene-d4	50	98	100	105	100	97	97	98	148 *	98	141 *	165 *

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QC Filed on Site

All results in ug/l

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/22/14 09/24/14 MW-33s-0914	09/22/14 09/24/14 MW-33i-0914	09/22/14 09/24/14 MW-33d-0914	09/22/14 09/24/14 MW-34s-0914	09/23/14 09/24/14 MW-34i-0914	09/23/14 09/24/14 MW-34d-0914	09/23/14 09/24/14 MW-38s-0914	09/23/14 09/24/14 MW-38d-0914	09/23/14 09/24/14 K-2s-0914	09/23/14 09/24/14 K-32s-0914	09/23/14 09/24/14 K-13d-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	U	4.8	U	U	U	U	U	4.3	U
Tetrahydrofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Benzene	1.0	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	U	U	U	U	U	U	1.5	U	U	1.9
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/22/14 09/24/14 MW-33s-0914	09/22/14 09/24/14 MW-33i-0914	09/22/14 09/24/14 MW-33d-0914	09/22/14 09/24/14 MW-34s-0914	09/23/14 09/24/14 MW-34i-0914	09/23/14 09/24/14 MW-34d-0914	09/23/14 09/24/14 MW-38s-0914	09/23/14 09/24/14 MW-38d-0914	09/23/14 09/24/14 K-2s-0914	09/23/14 09/24/14 K-32s-0914	09/23/14 09/24/14 K-13d-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
Total Volatiles		0	0	0	4.8	0	0	0	1.5	0	4.3	1.9

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	96	96	97	97	97	98	97	97	97	98	98
Toluene-d8	50	99	98	100	99	96	97	97	98	98	98	99
4-Bromofluorobenzene	50	94	93	93	94	93	94	92	93	92	93	93
1,2-Dichlorobenzene-d4	50	98	98	99	98	97	98	98	98	97	99	98

Samples Collected and Analyzed [redacted]shbeck, Thompson, Carr, and Huber
Additional [redacted] Filed on Site

[redacted]its in ug/l

LE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled:		09/24/14	09/24/14	09/24/14	09/24/14	09/24/14	09/24/14	09/24/14	09/25/14	09/25/14	09/25/14	09/25/14
Date Analyzed:	DETECTION LIMITS	09/24/14 W-123s-0914	09/24/14 W-123d-0914	09/25/14 OW-3-0914	09/25/14 MW-16s-0914	09/25/14 MW-16d-0914	09/25/14 K-12s-0914	09/25/14 OW-16-0914	09/25/14 K-31d-0914	09/25/14 K-5dR-0914	09/25/14 K-4sR-0914	09/29/14 MW-38i-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	U	52	U	U	U	U	18	U	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	U	U	U	U	U	10	U	U	2.8
Benzene	1.0	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	U	U	U	U	1.2	U	U	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/24/14 09/24/14 W-123s-0914	09/24/14 09/24/14 W-123d-0914	09/24/14 09/25/14 OW-3-0914	09/24/14 09/25/14 MW-16s-0914	09/24/14 09/25/14 MW-16d-0914	09/24/14 09/25/14 K-12s-0914	09/24/14 09/25/14 OW-16-0914	09/25/14 09/25/14 K-31d-0914	09/25/14 09/25/14 K-5dR-0914	09/25/14 09/25/14 K-4sR-0914	09/25/14 09/29/14 MW-38i-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
Total Volatiles		0	52	0	0	0	1.2	18	10	0	0	2.8

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	98	99	97	96	98	97	97	98	96	99	104
Toluene-d8	50	98	98	99	98	98	100	99	99	100	98	97
4-Bromofluorobenzene	50	91	93	92	91	92	92	91	93	93	92	102
1,2-Dichlorobenzene-d4	50	98	98	97	98	97	97	97	96	98	98	98

Samples Collected and Analyzed B[illegible]Eichbeck, Thompson, Carr, and Huber
Additional [illegible] Filed on Site

a[illegible]ts in ug/l

LE 1

OTT/STORY/CORDOVA SUPERFU[illegible] SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/25/14 09/29/14 K-3d-0914	09/25/14 09/29/14 W-35d-0914	09/26/14 09/29/14 W-23d-0914	09/26/14 09/29/14 W-6d-0914	09/26/14 09/29/14 W-13d-0914	09/26/14 09/29/14 W-5d-0914	09/26/14 09/29/14 W-15d-0914	09/26/14 09/29/14 W-15s-0914	09/26/14 09/29/14 W-16s-0914	09/26/14 09/30/14 W-16d-0914	09/29/14 09/30/14 W-104s-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	30	5.4	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	U	U	33	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	1.3	U
Benzene	1.0	U	U	24	U	U	U	U	U	U	U	U
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/25/14 09/29/14 K-3d-0914	09/25/14 09/29/14 W-35d-0914	09/26/14 09/29/14 W-23d-0914	09/26/14 09/29/14 W-6d-0914	09/26/14 09/29/14 W-13d-0914	09/26/14 09/29/14 W-5d-0914	09/26/14 09/29/14 W-15d-0914	09/26/14 09/29/14 W-15s-0914	09/26/14 09/29/14 W-16s-0914	09/26/14 09/30/14 W-16d-0914	09/29/14 09/30/14 W-104s-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
Total Volatiles		0	0	87	5.4	0	0	0	0	0	1.3	0

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	104	104	104	104	103	105	106	105	104	105	105
Toluene-d8	50	96	95	96	96	96	96	96	97	97	97	96
4-Bromofluorobenzene	50	104	102	104	104	103	104	104	104	103	103	103
1,2-Dichlorobenzene-d4	50	98	98	97	100	99	98	99	98	98	99	99

Samples Collected and Analyzed [illegible]ishbeck, Thompson, Carr, and Huber
Additional[illegible]C Filed on Site

all units in ug/l

LE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/29/14 09/30/14 W-104i-0914	09/29/14 09/30/14 W-105s-0914	09/29/14 09/30/14 W-105i-0914	09/29/14 10/01/14 W-116s-0914	09/29/14 10/01/14 W-116i-0914	09/29/14 10/01/14 W-110s-0914	09/30/14 10/01/14 W-114s-0914	09/30/14 10/01/14 W-117s-0914	09/30/14 10/01/14 W-117i-0914	09/30/14 10/01/14 W-120s-0914	09/30/14 10/01/14 W-120i-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	U	U	1.0	U	U	U	U	U	U
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	U	U	U	U	U	U	12	U	7.2
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	1.0	U	U
1,1-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	U	U	U	U	150 D	U	U	U	740 D	U	860 D
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	2.4	U	U	U	U	U	U	U	U
Benzene	1.0	U	U	U	U	U	U	U	U	120	U	19
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	U	U	U	U	U	U	U	1.6	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	U	U	U	U	U	U	U	1.7	U	U
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/29/14 09/30/14 W-104i-0914	09/29/14 09/30/14 W-105s-0914	09/29/14 09/30/14 W-105i-0914	09/29/14 10/01/14 W-116s-0914	09/29/14 10/01/14 W-116i-0914	09/29/14 10/01/14 W-110s-0914	09/30/14 10/01/14 W-114s-0914	09/30/14 10/01/14 W-117s-0914	09/30/14 10/01/14 W-117i-0914	09/30/14 10/01/14 W-120s-0914	09/30/14 10/01/14 W-120i-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
Total Volatiles		0	0	2.4	0	151	0	0	0	876	0	886

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	106	105	105	106	106	107	110	109	108	110	110
Toluene-d8	50	96	96	97	97	97	97	97	100	97	100	100
4-Bromofluorobenzene	50	104	102	103	103	103	103	103	104	103	104	103
1,2-Dichlorobenzene-d4	50	98	99	100	99	98	99	99	99	96	99	98

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional[redacted]C Filed on Site

all units in ug/l

E 1

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	10/01/14 10/01/14 W-122s-0914	10/01/14 10/02/14 W-122i-0914	10/01/14 10/02/14 W-121s-0914	10/01/14 10/02/14 W-121i-0914	10/01/14 10/02/14 W-107s-0914	10/01/14 10/02/14 W-107i-0914	10/01/14 10/02/14 MW-12s-0914	10/01/14 10/02/14 MW-12d-0914	10/01/14 10/02/14 OW-12-0914	10/02/14 10/02/14 W-106s-0914	10/02/14 10/02/14 W-106i-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	1.4	U	U	U	U	U	U	96	U	11
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	2.0	U	3.5	U	1.3	U	U	U	U	6.9
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	2.1	U	U	U	U	U	U	2.3	U	2.5
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	1.2	U	U	U	U	U	U	16	U	20
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	U	11	U	49	U	U	U	U	U	U	31
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	U	U	U	U	U	U	140	U	U
Benzene	1.0	U	3.1	U	7.6	U	15	U	U	34	U	190 D
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	U	U	U	U	U	U	U	U	U	4.1
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	U	U	2.0	U	U	U	U	2.4	U	4.9
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	10/01/14 10/01/14 W-122s-0914	10/01/14 10/02/14 W-122i-0914	10/01/14 10/02/14 W-121s-0914	10/01/14 10/02/14 W-121i-0914	10/01/14 10/02/14 W-107s-0914	10/01/14 10/02/14 W-107i-0914	10/01/14 10/02/14 MW-12s-0914	10/01/14 10/02/14 MW-12d-0914	10/01/14 10/02/14 OW-12-0914	10/02/14 10/02/14 W-106s-0914	10/02/14 10/02/14 W-106i-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U
Total Volatiles		0	21	0	62	0	16	0	0	291	0	270

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	110	108	106	106	107	107	108	108	107	108	107
Toluene-d8	50	99	100	99	99	101	99	101	101	102	101	100
4-Bromofluorobenzene	50	104	103	102	102	103	101	102	103	103	103	100
1,2-Dichlorobenzene-d4	50	98	98	98	95	99	98	99	98	98	97	99

Samples Collected and Analyzed B Fishbeck, Thompson, Carr, and Huber
Additional C Filed on Site

all units in ug/l

LE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled:		10/02/14	10/02/14	10/02/14	10/02/14	10/02/14	10/02/14	10/03/14	10/03/14	10/03/14	10/03/14	10/03/14
Date Analyzed:	DETECTION LIMITS	10/02/14 MW-23d-0914	10/03/14 MW-23s-0914	10/03/14 OW-23-0914	10/03/14 W-103s-0914	10/03/14 W-103i-0914	10/03/14 W-124d-0914	10/03/14 OW-9d-0914	10/03/14 W-124s-0914	10/13/14 W-102d-0914	10/09/14 W-102i-0914	10/09/14 W-102s-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	U	U	U	8.1	1.8	U	U	9.8	U
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	U	U	U	1.6	9.0	U	U	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	U	U	U	U	4.2	4.7	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	2.1	U	U	U	U	U
Chloroform	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	U	U	U	U	1300 D	41	160	U	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	U	U	U	8.8	U	U	U	U	U
Benzene	1.0	U	U	U	2.3	9.6	12	3.1	27	U	U	29
Trichloroethene	1.0	U	U	U	1.2	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	1.5	U	U	U	5.0	U	5.4	U	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	U	3.9	36	U	U	U	110	U	U	72
Ethylbenzene	1.0	U	U	U	2.3	U	U	U	3.2	U	U	1.0

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	10/02/14 10/02/14 MW-23d-0914	10/02/14 10/03/14 MW-23s-0914	10/02/14 10/03/14 OW-23-0914	10/02/14 10/03/14 W-103s-0914	10/02/14 10/03/14 W-103i-0914	10/02/14 10/03/14 W-124d-0914	10/03/14 10/03/14 OW-9d-0914	10/03/14 10/03/14 W-124s-0914	10/03/14 10/13/14 W-102d-0914	10/03/14 10/09/14 W-102i-0914	10/03/14 10/09/14 W-102s-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	4.9	U	U	10
1,4-Dichlorobenzene	2.0	U	U	U	8.1	U	U	U	22	U	U	36
1,2-Dichlorobenzene	2.0	U	U	U	16	U	U	U	50	U	U	62
Total Volatiles		1.5	0	3.9	66	1315	78	184	217	0	10	210

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	108	108	106	109	108	106	113	105	99	107	101
Toluene-d8	50	102	101	101	101	102	102	97	102	100	103	101
4-Bromofluorobenzene	50	103	104	103	103	104	101	102	104	101	103	103
1,2-Dichlorobenzene-d4	50	97	97	98	101	96	97	97	107	104	98	108

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional [illegible] Filed on Site

all units in ug/l

LE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	10/06/14 10/09/14 OW-14-0914	10/06/14 10/09/14 TW-A-0914	10/06/14 10/09/14 W-26s-0914	10/06/14 10/09/14 W-26d-0914	10/06/14 10/09/14 W-7s-0914	10/07/14 10/09/14 K-28d-0914	10/07/14 10/09/14 W-17d-0914	10/07/14 10/09/14 W-17s-0914	10/07/14 10/13/14 UW-1-0914	10/07/14 10/09/14 W-18s-0914	10/07/14 10/13/14 W-101d-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	96	61	U	12	U	5.8	30	U	13	U	37 D
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	3.1	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	13	3.7	U	5.8	U	3.0	7.5	U	34	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	1.4	U	U	U	U	7.6	U	12 D
1,1-Dichloroethane	1.0	20	10	U	4.9	U	3.4	8.1	U	2.2	U	U
cis-1,2-Dichloroethene	1.0	2.1	U	U	15	U	U	1.2	U	120	U	200 D
Chloroform	1.0	U	U	1.1	U	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	29	12	U	U	U	U	16	U	11	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	17	14	U	140	U	110	650 D	U	19	U	U
Benzene	1.0	24	9.0	U	9.8	U	9.7	11	U	7.1	U	U
Trichloroethene	1.0	U	U	U	13	U	U	U	U	19	U	1300 D
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	4.0	3.2	U	30	U	U	U	U	2.8	3600 D	46 D
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	2.5	U	47000 D
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	2.4	4.4	U	7.4	U	U	U	180	4.4	14 D	U
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	5.2	24 D	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	10/06/14 10/09/14 OW-14-0914	10/06/14 10/09/14 TW-A-0914	10/06/14 10/09/14 W-26s-0914	10/06/14 10/09/14 W-26d-0914	10/06/14 10/09/14 W-7s-0914	10/07/14 10/09/14 K-28d-0914	10/07/14 10/09/14 W-17d-0914	10/07/14 10/09/14 W-17s-0914	10/07/14 10/13/14 UW-1-0914	10/07/14 10/09/14 W-18s-0914	10/07/14 10/13/14 W-101d-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	15	33 D	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	2.7	9.0	5.9	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	27	52	35	U	270 D
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	80	300 D	280 D	72 D	5800 D
Total Volatiles		211	117	1.1	239	0	132	834	541	584	3743	54665

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
1,2-Dichloroethane-d4	50	103	107	109	104	106	106	106	98	101	99	99
Toluene-d8	50	104	100	100	101	102	100	103	100	97	98	101
4-Bromofluorobenzene	50	103	103	102	12	102	102	103	100	103	100	101
1,2-Dichlorobenzene-d4	50	102	101	101	101	99	101	115	166 *	159 *	105	227 *

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional [illegible] Filed on Site

all units in ug/l

LE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	10/07/14 10/14/14 W-101i-0914	10/07/14 10/13/14 W-101s-0914	09/30/14 10/01/14 W-110i-0914	09/30/14 10/01/14 W-114i-0914	09/25/14 09/29/14 K-24s-0914	09/25/14 09/29/14 K-25d-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U
Vinyl Chloride	1.0	6.9	U	U	U	U	U
Bromomethane	5.0	U	U	U	U	U	U
Chloroethane	1.0	53	U	15	170	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U
1,1-Dichloroethene	1.0	1.2	U	U	U	U	U
Acetone	10	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	2.4	U	U
1,1-Dichloroethane	1.0	270 D	U	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	62 D	U	U	U	U
Chloroform	1.0	U	10 D	U	U	U	U
Tetrahydrofuran	5.0	51	U	820 D	850 D	U	U
1,1,1-Trichloroethane	1.0	1.4	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U
1,2-Dichloroethane	1.0	7.1	U	U	U	U	U
Benzene	1.0	63	U	3.6	480 D	U	U
Trichloroethene	1.0	U	1700 D	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U
Toluene	1.0	70	16 D	U	4.6	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U
Tetrachloroethene	1.0	U	16000 D	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U
Chlorobenzene	1.0	1.9	U	U	5.4	U	U
Ethylbenzene	1.0	U	110 D	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 1
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS-VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	10/07/14 10/14/14 W-101i-0914	10/07/14 10/13/14 W-101s-0914	09/30/14 10/01/14 W-110i-0914	09/30/14 10/01/14 W-114i-0914	09/25/14 09/29/14 K-24s-0914	09/25/14 09/29/14 K-25d-0914
Xylenes (total)	3.0	U	510 D	U	U	U	U
Styrene	1.0	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	36 D	U	U	U	U
1,4-Dichlorobenzene	2.0	U	450 D	U	U	U	U
1,2-Dichlorobenzene	2.0	U	4400 D	U	U	U	U
Total Volatiles		526	23294	839	1512	0	0

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries					
1,2-Dichloroethane-d4	50	99	98	110	108	102	104
Toluene-d8	50	99	100	99	99	98	97
4-Bromofluorobenzene	50	101	100	104	106	103	104
1,2-Dichlorobenzene-d4	50	102	188 *	99	98	98	98

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional Q[illegible]iled on Site

all units in ug/l

E 2

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

EXTRACTION WELLS-SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/22/14 09/23/14 EW-1-0914	09/22/14 09/23/14 EW-2-0914	09/22/14 09/23/14 EW-3-0914	09/22/14 09/23/14 EW-4-0914	09/22/14 09/23/14 EW-5-0914	09/22/14 09/23/14 EW-6-0914	09/22/14 09/23/14 EW-7-0914	09/22/14 09/23/14 EW-8-0914	09/22/14 09/23/14 EW-9-0914	09/22/14 09/23/14 EW-10-0914	09/22/14 09/23/14 EW-11-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	6.0	8.6
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	21	U	19	34
1,2-Dichlorobenzene	5.0	U	6.3	U	U	U	U	U	130 D	U	120 D	220 D
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	5.4	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
EXTRACTION WELLS-SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/22/14 09/23/14 EW-1-0914	09/22/14 09/23/14 EW-2-0914	09/22/14 09/23/14 EW-3-0914	09/22/14 09/23/14 EW-4-0914	09/22/14 09/23/14 EW-5-0914	09/22/14 09/23/14 EW-6-0914	09/22/14 09/23/14 EW-7-0914	09/22/14 09/23/14 EW-8-0914	09/22/14 09/23/14 EW-9-0914	09/22/14 09/23/14 EW-10-0914	09/22/14 09/23/14 EW-11-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional Q[illegible]C Filed on Site

a[illegible]s in ug/l

LE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
EXTRACTION WELLS-SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/22/14 09/23/14 EW-1-0914	09/22/14 09/23/14 EW-2-0914	09/22/14 09/23/14 EW-3-0914	09/22/14 09/23/14 EW-4-0914	09/22/14 09/23/14 EW-5-0914	09/22/14 09/23/14 EW-6-0914	09/22/14 09/23/14 EW-7-0914	09/22/14 09/23/14 EW-8-0914	09/22/14 09/23/14 EW-9-0914	09/22/14 09/23/14 EW-10-0914	09/22/14 09/23/14 EW-11-0914
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	U	28	58	320 D	87	11	U	96	27	24	49
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	17	620 D	320 D	150 D	130 D	9.0	9.4	570 D	340 D	400 D	920 D
n-Ethylaniline	5.0	U	52	51	230 D	97	47	14	120	68	72	120
n-Methylaniline	5.0	13	68	60	73	53	35	11	130 D	79	150 D	310 D
Tetramethylurea	5.0	U	U	U	U	U	5.8	U	U	U	U	U
Aniline	5.0	5.9	14	120	440 D	460 D	330 D	U	400 D	32	100	450 D
Total Semivolatiles		36	788	609	1213	827	438	34	1467	546	896	2112

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	40	37	36	46	44	47	39	42	44	40	47
Phenol-d6	50	26	26	24	28	20	19	27	27	29	27	30
Nitrobenzene-d5	100	61	61	59	75	70	75	67	70	72	69	71
2-Fluorobiphenyl	100	60	67	66	81	78	81	69	80	77	74	79
2,4,6-Tribromophenol	50	84	92	89	108	108	111	94	108	99	105	98
p-Terphenyl-d14	100	83	85	82	94	93	92	86	95	92	99	94

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/22/14 09/23/14 MW-33s-0914	09/22/14 09/23/14 MW-33i-0914	09/22/14 09/23/14 MW-33d-0914	09/22/14 09/23/14 MW-34s-0914	09/23/14 09/23/14 MW-34i-0914	09/23/14 09/23/14 MW-34d-0914	09/23/14 09/24/14 MW-38s-0914	09/23/14 09/24/14 MW-38d-0914	09/23/14 09/24/14 K-2s-0914	09/23/14 09/24/14 K-32s-0914	09/23/14 09/24/14 K-13d-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: [illegible]bbeck, Thompson, Carr, and Huber
Additional Q[illegible]iled on Site

al[illegible] in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled:		09/22/14	09/22/14	09/22/14	09/22/14	09/23/14	09/23/14	09/23/14	09/23/14	09/23/14	09/23/14	09/23/14
Date Extracted:	DETECTION LIMITS	09/23/14 MW-33s-0914	09/23/14 MW-33i-0914	09/23/14 MW-33d-0914	09/23/14 MW-34s-0914	09/23/14 MW-34i-0914	09/23/14 MW-34d-0914	09/24/14 MW-38s-0914	09/24/14 MW-38d-0914	09/24/14 K-2s-0914	09/24/14 K-32s-0914	09/24/14 K-13d-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/22/14 09/23/14 MW-33s-0914	09/22/14 09/23/14 MW-33i-0914	09/22/14 09/23/14 MW-33d-0914	09/22/14 09/23/14 MW-34s-0914	09/23/14 09/23/14 MW-34i-0914	09/23/14 09/23/14 MW-34d-0914	09/23/14 09/24/14 MW-38s-0914	09/23/14 09/24/14 MW-38d-0914	09/23/14 09/24/14 K-2s-0914	09/23/14 09/24/14 K-32s-0914	09/23/14 09/24/14 K-13d-0914
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	6.4	U	U	U	5.1	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	U	U	U	U	8.3	U	U	U	U	U	U
n-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Methylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
Tetramethylurea	5.0	U	U	U	U	U	U	U	U	U	U	U
Aniline	5.0	U	U	U	U	U	U	U	U	U	U	U
Total Semivolatiles		0	0	0	6.4	8.3	0	0	5.1	0	0	0

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	42	33	29	38	43	41	39	38	40	39	36
Phenol-d6	50	29	23	21	26	29	28	27	25	26	26	25
Nitrobenzene-d5	100	69	62	48	63	69	65	71	66	74	71	70
2-Fluorobiphenyl	100	72	69	53	72	76	72	75	63	79	79	80
2,4,6-Tribromophenol	50	101	88	86	100	96	101	83	67 *	95	95	98
p-Terphenyl-d14	100	89	81	79	99	96	91	93	94	103	101	101

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional [illegible] Filed on Site

[illegible]s in ug/l

LE 2
OTT/STORY/CORDOVA SUPERFU SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/24/14 09/24/14 W-123s-0914	09/24/14 09/24/14 W-123d-0914	09/24/14 09/24/14 OW-3-0914	09/24/14 09/24/14 MW-16s-0914	09/24/14 09/24/14 MW-16d-0914	09/24/14 09/24/14 K-12s-0914	09/24/14 09/24/14 OW-16-0914	09/24/14 09/25/14 K-31d-0914	09/25/14 09/25/14 K-5dR-0914	09/25/14 09/25/14 K-4aR-0914	09/25/14 09/29/14 MW-38i-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/24/14 09/24/14 W-123s-0914	09/24/14 09/24/14 W-123d-0914	09/24/14 09/24/14 OW-3-0914	09/24/14 09/24/14 MW-16s-0914	09/24/14 09/24/14 MW-16d-0914	09/24/14 09/24/14 K-12s-0914	09/24/14 09/24/14 OW-16-0914	09/24/14 09/25/14 K-31d-0914	09/25/14 09/25/14 K-5dR-0914	09/25/14 09/25/14 K-4sR-0914	09/25/14 09/29/14 MW-38i-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional Q[illegible] Filed on Site

all [illegible] in ug/l

LE 2
OTT/STORY/CORDOVA SUPERFU SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/24/14 09/24/14 W-123s-0914	09/24/14 09/24/14 W-123d-0914	09/24/14 09/24/14 OW-3-0914	09/24/14 09/24/14 MW-16s-0914	09/24/14 09/24/14 MW-16d-0914	09/24/14 09/24/14 K-12s-0914	09/24/14 09/24/14 OW-16-0914	09/24/14 09/25/14 K-31d-0914	09/25/14 09/25/14 K-5dR-0914	09/25/14 09/25/14 K-4sR-0914	09/25/14 09/29/14 MW-38i-0914
bis(2-Ethylhexyl)phthalate	5.0	U	5.9	U	U	U	U	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Methylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
Tetramethylurea	5.0	U	U	U	U	U	U	U	U	U	U	U
Aniline	5.0	U	U	U	U	U	U	U	U	U	U	U
Total Semivolatiles		0	5.9	0	0	0	0	0	0	0	0	0

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	37	38	31	44	39	45	36	32	43	36	35
Phenol-d6	50	26	26	22	29	25	31	24	21	29	23	23
Nitrobenzene-d5	100	64	65	59	75	65	78	66	57	77	60	63
2-Fluorobiphenyl	100	69	72	69	79	73	82	73	59	75	60	62
2,4,6-Tribromophenol	50	87	93	84	122	101	104	104	91	104	90	73
p-Terphenyl-d14	100	98	96	93	94	108	100	100	93	100	101	77

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/25/14 09/29/14 K-3d-0914	09/25/14 09/29/14 W-35d-0914	09/26/14 09/29/14 W-23d-0914	09/26/14 09/29/14 W-6d-0914	09/26/14 09/29/14 W-13d-0914	09/26/14 09/29/14 W-5d-0914	09/26/14 09/29/14 W-15d-0914	09/26/14 09/29/14 W-15s-0914	09/26/14 09/29/14 W-16s-0914	09/26/14 09/29/14 W-16d-0914	09/29/14 09/29/14 W-104s-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional C[illegible] Filed on Site

al[illegible]s in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/25/14 09/29/14 K-3d-0914	09/25/14 09/29/14 W-35d-0914	09/26/14 09/29/14 W-23d-0914	09/26/14 09/29/14 W-6d-0914	09/26/14 09/29/14 W-13d-0914	09/26/14 09/29/14 W-5d-0914	09/26/14 09/29/14 W-15d-0914	09/26/14 09/29/14 W-15s-0914	09/26/14 09/29/14 W-16s-0914	09/26/14 09/29/14 W-16d-0914	09/29/14 09/29/14 W-104s-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	33	U	11	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/25/14 09/29/14 K-3d-0914	09/25/14 09/29/14 W-35d-0914	09/26/14 09/29/14 W-23d-0914	09/26/14 09/29/14 W-6d-0914	09/26/14 09/29/14 W-13d-0914	09/26/14 09/29/14 W-5d-0914	09/26/14 09/29/14 W-15d-0914	09/26/14 09/29/14 W-15s-0914	09/26/14 09/29/14 W-16s-0914	09/26/14 09/29/14 W-16d-0914	09/29/14 09/29/14 W-104s-0914
bis(2-Ethylhexyl)phthalate	5.0	U	27	U	U	U	5.1	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	U	U	U	15	U	U	51	7.6	U	U	U
n-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Methylaniline	5.0	U	U	9.0	U	U	U	U	U	U	U	U
Tetramethylurea	5.0	U	U	5.9	U	U	U	U	U	U	U	U
Aniline	5.0	U	U	U	U	U	U	U	U	U	U	U
Total Semivolatiles		33	27	26	15	0	5.1	51	7.6	0	0	0

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	36	40	42	41	43	46	36	45	40	40	45
Phenol-d6	50	25	27	19	26	28	31	26	33	27	27	30
Nitrobenzene-d5	100	71	80	75	73	74	75	67	77	70	72	76
2-Fluorobiphenyl	100	75	82	89	74	79	81	75	82	75	78	79
2,4,6-Tribromophenol	50	89	96	103	95	104	109	96	104	99	105	96
p-Terphenyl-d14	100	99	99	95	84	91	92	87	90	89	87	94

Samples Collected and Analyzed By: Eichbeck, Thompson, Carr, and Huber
Additional C[illegible] Filed on Site

al[illegible]s in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/29/14 09/29/14 W-104i-0914	09/29/14 09/29/14 W-105s-0914	09/29/14 09/29/14 W-105i-0914	09/29/14 09/29/14 W-116s-0914	09/29/14 09/29/14 W-116i-0914	09/29/14 10/01/14 W-110s-0914	09/30/14 10/01/14 W-114s-0914	09/30/14 10/01/14 W-117s-0914	09/30/14 10/01/14 W-117i-0914	09/30/14 10/01/14 W-120s-0914	09/30/14 10/01/14 W-120i-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled:		09/29/14	09/29/14	09/29/14	09/29/14	09/29/14	09/29/14	09/30/14	09/30/14	09/30/14	09/30/14	09/30/14
Date Extracted:	DETECTION LIMITS	09/29/14 W-104i-0914	09/29/14 W-105s-0914	09/29/14 W-105i-0914	09/29/14 W-116s-0914	09/29/14 W-116i-0914	10/01/14 W-110s-0914	10/01/14 W-114s-0914	10/01/14 W-117s-0914	10/01/14 W-117i-0914	10/01/14 W-120s-0914	10/01/14 W-120i-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional C[illegible] Filed on Site

al[illegible] in ug/l

LE 2
OTT/STORY/CORDOVA SUPERF[illegible] SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	09/29/14 09/29/14 W-104i-0914	09/29/14 09/29/14 W-105s-0914	09/29/14 09/29/14 W-105i-0914	09/29/14 09/29/14 W-116s-0914	09/29/14 09/29/14 W-116i-0914	09/29/14 10/01/14 W-110s-0914	09/30/14 10/01/14 W-114s-0914	09/30/14 10/01/14 W-117s-0914	09/30/14 10/01/14 W-117i-0914	09/30/14 10/01/14 W-120s-0914	09/30/14 10/01/14 W-120i-0914
bis(2-Ethylhexyl)phthalate	5.0	U	5.9	U	U	U	7.4	U	U	U	5.6	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	U	U	U	U	U	U	U	U	64	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	U	U	U	U	U	U	U	U	15	U	17
n-Ethylaniline	5.0	U	U	U	U	U	U	U	U	310 D	U	47
n-Methylaniline	5.0	U	U	U	U	U	U	U	U	85	U	35
Tetramethylurea	5.0	U	U	U	U	U	U	U	U	8.5	U	7.4
Aniline	5.0	U	U	U	U	U	U	U	U	1300 D	U	88
Total Semivolatiles		0	5.9	0	0	0	7.4	0	0	1783	5.6	194

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	46	43	41	44	43	35	37	37	43	54	47
Phenol-d6	50	31	28	27	29	29	23	24	24	27	38	21
Nitrobenzene-d5	100	81	80	76	77	72	69	71	71	86	102 *	85
2-Fluorobiphenyl	100	83	83	77	81	78	81	83	83	108 *	103 *	85
2,4,6-Tribromophenol	50	107	99	105	105	103	76	91	91	106	104	99
p-Terphenyl-d14	100	90	90	99	98	88	88	98	98	104	111	104

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/01/14 10/01/14 W-122s-0914	10/01/14 10/01/14 W-122i-0914	10/01/14 10/01/14 W-121s-0914	10/01/14 10/01/14 W-121i-0914	10/01/14 10/01/14 W-107s-0914	10/01/14 10/01/14 W-107i-0914	10/01/14 10/01/14 MW-12s-0914	10/01/14 10/01/14 MW-12d-0914	10/01/14 10/01/14 OW-12-0914	10/02/14 10/06/14 W-106s-0914	10/02/14 10/06/14 W-106i-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional [illegible] Filed on Site

[illegible] in ug/l

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/01/14 10/01/14 W-122s-0914	10/01/14 10/01/14 W-122i-0914	10/01/14 10/01/14 W-121s-0914	10/01/14 10/01/14 W-121i-0914	10/01/14 10/01/14 W-107s-0914	10/01/14 10/01/14 W-107i-0914	10/01/14 10/01/14 MW-12s-0914	10/01/14 10/01/14 MW-12d-0914	10/01/14 10/01/14 OW-12-0914	10/02/14 10/06/14 W-106s-0914	10/02/14 10/06/14 W-106i-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/01/14 10/01/14 W-122s-0914	10/01/14 10/01/14 W-122i-0914	10/01/14 10/01/14 W-121s-0914	10/01/14 10/01/14 W-121i-0914	10/01/14 10/01/14 W-107s-0914	10/01/14 10/01/14 W-107i-0914	10/01/14 10/01/14 MW-12s-0914	10/01/14 10/01/14 MW-12d-0914	10/01/14 10/01/14 OW-12-0914	10/02/14 10/06/14 W-106s-0914	10/02/14 10/06/14 W-106i-0914
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	U	U	U	U	U	U	U	U	13	U	140 D
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	U	63	U	100	U	31	U	U	970 D	U	1000 D
n-Ethylaniline	5.0	U	22	U	55	U	7.1	U	U	150 D	U	160 D
n-Methylaniline	5.0	U	U	U	12	U	12	U	U	52	U	150 D
Tetramethylurea	5.0	U	U	U	U	U	U	U	U	U	U	U
Aniline	5.0	U	U	U	U	U	17	U	U	16	U	17
Total Semivolatiles		0	85	0	167	0	67	0	0	1201	0	1467

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	46	43	46	46	41	46	43	44	31	37	42
Phenol-d6	50	33	29	30	31	28	31	28	29	20	25	27
Nitrobenzene-d5	100	83	79	84	81	71	75	70	77	52	62	73
2-Fluorobiphenyl	100	87	78	81	83	72	74	72	80	57	64	75
2,4,6-Tribromophenol	50	99	90	98	98	87	89	83	93	72	70	71
p-Terphenyl-d14	100	110	109	112	105	95	97	87	101	74	77	80

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/02/14 10/06/14 MW-23d-0914	10/02/14 10/06/14 MW-23s-0914	10/02/14 10/06/14 OW-23-0914	10/02/14 10/06/14 W-103s-0914	10/02/14 10/06/14 W-103i-0914	10/02/14 10/06/14 W-124d-0914	10/03/14 10/06/14 OW-9d-0914	10/03/14 10/06/14 W-124s-0914	10/03/14 10/06/14 W-102d-0914	10/03/14 10/06/14 W-102i-0914	10/03/14 10/06/14 W-102s-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	6.7
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	15	U	U	24
1,2-Dichlorobenzene	5.0	U	U	U	9.6	U	U	U	34	U	U	40
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/02/14 10/06/14 MW-23d-0914	10/02/14 10/06/14 MW-23s-0914	10/02/14 10/06/14 OW-23-0914	10/02/14 10/06/14 W-103s-0914	10/02/14 10/06/14 W-103i-0914	10/02/14 10/06/14 W-124d-0914	10/03/14 10/06/14 OW-9d-0914	10/03/14 10/06/14 W-124s-0914	10/03/14 10/06/14 W-102d-0914	10/03/14 10/06/14 W-102i-0914	10/03/14 10/06/14 W-102s-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline -	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional [illegible]C Filed on Site

all units in ug/l

LE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/02/14 10/06/14 MW-23d-0914	10/02/14 10/06/14 MW-23s-0914	10/02/14 10/06/14 OW-23-0914	10/02/14 10/06/14 W-103s-0914	10/02/14 10/06/14 W-103i-0914	10/02/14 10/06/14 W-124d-0914	10/03/14 10/06/14 OW-9d-0914	10/03/14 10/06/14 W-124s-0914	10/03/14 10/06/14 W-102d-0914	10/03/14 10/06/14 W-102i-0914	10/03/14 10/06/14 W-102s-0914
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	U	U	U	U	24	15	68	U	U	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	U	U	21	47	27	540 D	5.4	U	U	U	110
n-Ethylaniline	5.0	U	U	U	U	9.1	62	U	9.1	U	U	76
n-Methylaniline	5.0	U	U	5.4	5.5	5.6	25	48	U	U	U	29
Tetramethylurea	5.0	U	U	U	U	5.8	U	U	U	U	U	U
Aniline	5.0	U	U	U	U	U	U	34	U	U	U	U
Total Semivolatiles		0	0	26	62	72	642	155	58	0	0	286

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	38	38	38	50	46	46	52	56 *	43	38	45
Phenol-d6	50	25	24	25	37	25	34	37	41 *	29	26	32
Nitrobenzene-d5	100	67	66	69	71	66	69	74	84	74	67	76
2-Fluorobiphenyl	100	70	70	70	71	70	72	77	82	78	68	96
2,4,6-Tribromophenol	50	75	80	79	87	89	92	88	90	96	74	91
p-Terphenyl-d14	100	87	86	89	86	95	102	100	93	109	87	132 *

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/06/14 10/06/14 OW-14-0914	10/06/14 10/06/14 TW-A-0914	10/06/14 10/06/14 W-26s-0914	10/06/14 10/06/14 W-26d-0914	10/06/14 10/06/14 W-7s-0914	10/07/14 10/07/14 K-28d-0914	10/07/14 10/07/14 W-17d-0914	10/07/14 10/07/14 W-17s-0914	10/07/14 10/07/14 UW-1-0914	10/07/14 10/07/14 W-18s-0914	10/07/14 10/07/14 W-101d-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	5.1	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	16	30	22	5.7	110
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	44	150 D	160 D	51	2200 D
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U *	U *
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	16	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	14	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional [illegible]C Filed on Site

[illegible]its in ug/l

BLE 2
OTT/STORY/CORDOVA SUPERF[illegible]D SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/06/14 10/06/14 OW-14-0914	10/06/14 10/06/14 TW-A-0914	10/06/14 10/06/14 W-26s-0914	10/06/14 10/06/14 W-26d-0914	10/06/14 10/06/14 W-7s-0914	10/07/14 10/07/14 K-28d-0914	10/07/14 10/07/14 W-17d-0914	10/07/14 10/07/14 W-17s-0914	10/07/14 10/07/14 UW-1-0914	10/07/14 10/07/14 W-18s-0914	10/07/14 10/07/14 W-101d-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U *	U *
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U *	U *
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/06/14 10/06/14 OW-14-0914	10/06/14 10/06/14 TW-A-0914	10/06/14 10/06/14 W-26s-0914	10/06/14 10/06/14 W-26d-0914	10/06/14 10/06/14 W-7s-0914	10/07/14 10/07/14 K-28d-0914	10/07/14 10/07/14 W-17d-0914	10/07/14 10/07/14 W-17s-0914	10/07/14 10/07/14 UW-1-0914	10/07/14 10/07/14 W-18s-0914	10/07/14 10/07/14 W-101d-0914
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	18	17	U	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U *	U *
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U *	U *
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U *	U *
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U *	U *
Camphor	5.0	51	36	U	38	U	14	31	U	36	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	700 D	410 D	U	2700 D	U	810 D	1200 D	12	2800 D	33	26
n-Ethylaniline	5.0	89	55	U	103	U	40	66	U	39	U	15
n-Methylaniline	5.0	78	25	U	9.6	U	25	57	5.6	25	U	U
Tetramethylurea	5.0	U	U	U	U	U	U	U	U	U	U	U
Aniline	5.0	24	U	U	U	U	U	12	U	5.4	U	U
Total Semivolatiles		942	526	0	2869	17	889	1426	203	3087	120	2351

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries										
2-Fluorophenol	50	44	42	41	47	42	45	42	43	49	45	36
Phenol-d6	50	30	28	27	34	31	32	30	32	33	31	29
Nitrobenzene-d5	100	61	68	68	63	72	71	77	69	72	83	54
2-Fluorobiphenyl	100	58	70	71	84	81	78	61	70	75	85	47 *
2,4,6-Tribromophenol	50	82	80	83	95	97	88	89	76	91	101	77
p-Terphenyl-d14	100	72	99	90	105	109	106	106	94	101	111	64

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional Q[illegible] Filed on Site

all [illegible] in ug/l

LE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled:		10/07/14	10/07/14	09/30/14	09/30/14	09/25/14	09/25/14	10/14/14
Date Extracted:	DETECTION LIMITS	10/07/14 W-101i-0914	10/07/14 W-101s-0914	10/01/14 W-110i-0914	10/01/14 W-114i-0914	09/29/14 K-24s-0914	09/25/14 K-25d-0914	10/14/14 MW-34i-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5.0	U	310 D	U	U	U	U	U
1,2-Dichlorobenzene	5.0	U	3100 D	U	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U *	U *	U	U	U	U	U *
2-Methylphenol	5.0	U	U	U	U	U	U	U
3/4-Methylphenol	5.0	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled:		10/07/14	10/07/14	09/30/14	09/30/14	09/25/14	09/25/14	10/14/14
Date Extracted:	DETECTION LIMITS	10/07/14 W-101i-0914	10/07/14 W-101s-0914	10/01/14 W-110i-0914	10/01/14 W-114i-0914	09/29/14 K-24s-0914	09/25/14 K-25d-0914	10/14/14 MW-34i-0914
2-Nitroaniline	20	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	8.3	U
Fluorene	5.0	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U *
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U
Pentachlorophenol	20	U *	U *	U	U	U	U	U *
Phenanthrene	5.0	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U
Pyrene	5.0	U *	U *	U	U	U	U	U *
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additiona[redacted]C Filed on Site

[redacted]its in ug/l

LE 2
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
MONITORING WELLS - SEMIVOLATILES

Date Sampled: / Date Extracted:	DETECTION LIMITS	10/07/14 10/07/14 W-101i-0914	10/07/14 10/07/14 W-101s-0914	09/30/14 10/01/14 W-110i-0914	09/30/14 10/01/14 W-114i-0914	09/25/14 09/29/14 K-24s-0914	09/25/14 09/25/14 K-25d-0914	10/14/14 10/14/14 MW-34i-0914
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U	U	U	17
Di-n-octylphthalate	5.0	U *	U *	U	U	U	U	U *
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U *	U *	U	U	U	U	U *
Dibenzo(a,h)anthracene	5.0	U *	U *	U	U	U	U	U *
Benzo(g,h,i)perylene	5.0	U *	U *	U	U	U	U	U *
Camphor	5.0	420 D	U	180 D	1200 D	U	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	470 D	1300 D	U	37	U	U	U
n-Ethylaniline	5.0	26	2300 D	10	45	U	U	U
n-Methylaniline	5.0	17	U	12	94	U	U	U
Tetramethylurea	5.0	U	U	8.5	12	U	U	U
Aniline	5.0	U	U	5.8	5000 D	U	U	U
Total Semivolatiles		933	7010	216	6388	0	8.3	17

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries						
2-Fluorophenol	50	30	42	33	47	44	45	50
Phenol-d6	50	31	33	24	30	31	30	31
Nitrobenzene-d5	100	72	86	72	92 *	88	78	81
2-Fluorobiphenyl	100	75	78	92	63	88	76	83
2,4,6-Tribromophenol	50	101	80	81	103	96	107	97
p-Terphenyl-d14	100	104	100	90	99	100	106	113

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 3
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC DUPLICATES - VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/22/14 09/23/14 EW-6a-0914	09/22/14 09/23/14 Dup-1-0914	09/22/14 09/23/14 EW-9-0914	09/22/14 09/23/14 Dup-2-0914	09/23/14 09/24/14 MW-34d-091	09/23/14 09/24/14 Dup-3-0914	09/23/14 09/24/14 K-32s-0914	09/23/14 09/24/14 Dup-4-0914	09/25/14 09/25/14 K-4sR-0914	09/25/14 09/25/14 Dup-5-0914	09/29/14 09/29/14 W-105i-0914	09/29/14 09/29/14 Dup-6-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	200	200	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5.0	U	U	4.6	4.7	U	U	U	U	U	U	U	U
Chloroethane	1.0	2.8	3.0	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	1.0	U	U	14	15	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	11	11	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	U	1.0	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	35	35	U	U	4.3	4.3	U	U	U	U
Tetrahydrofuran	5.0	180	180	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	1.5	1.6	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	18	18	U	U	U	U	U	U	2.4	2.4
Benzene	1.0	38	39	1.0	1.1	U	U	U	U	U	U	U	U
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	19	20	U	U	U	U	U	U	U	U
Toluene	1.0	1.2	1.1	U	U	U	1.6	U	U	U	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	2.5	2.6	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	25	25	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional C Filed on Site
its in ug/l

TABLE 3

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

QC DUPLICATES - VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/22/14 09/23/14 EW-6a-0914	09/22/14 09/23/14 Dup-1-0914	09/22/14 09/23/14 EW-9-0914	09/22/14 09/23/14 Dup-2-0914	09/23/14 09/24/14 MW-34d-0914	09/23/14 09/24/14 Dup-3-0914	09/23/14 09/24/14 K-32s-0914	09/23/14 09/24/14 Dup-4-0914	09/25/14 09/25/14 K-4sR-0914	09/25/14 09/25/14 Dup-5-0914	09/29/14 09/29/14 W-105i-0914	09/29/14 09/29/14 Dup-6-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U	U

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries											
1,2-Dichloroethane-d4	50	100	101	98	97	98	98	98	99	99	99	105	106
Toluene-d8	50	100	100	100	99	97	97	98	98	98	98	97	96
4-Bromofluorobenzene	50	95	97	93	94	94	92	93	94	92	93	103	101
1,2-Dichlorobenzene-d4	50	97	98	98	98	98	98	99	97	98	97	100	97

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 3
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC DUPLICATES - VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/30/14 10/01/14 W-114i-0914	09/30/14 10/01/14 Dup-7-0914	10/01/14 10/02/14 W-122i-0914	10/01/14 10/02/14 Dup-8-0914	10/02/14 10/02/14 OW-23-0914	10/02/14 10/02/14 Dup-9-0914	10/03/14 10/09/14 W-102s-0914	10/03/14 10/09/14 Dup-10-0914	10/06/14 10/09/14 W-7s-0914	10/06/14 10/09/14 Dup-11-0914	10/07/14 10/09/14 K-28d-0914	10/07/14 10/09/14 Dup-12-0914
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	1.4	1.4	U	U	U	U	U	U	5.8	5.6
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	170	170	2.0	2.2	U	U	U	U	U	U	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	2.1	2.1	U	U	U	U	U	U	3.0	3.1
Acetone	10	U	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	2.4	2.3	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	U	1.2	1.4	U	U	U	U	U	U	3.4	3.4
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	850 D	850 D	11	11	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	110	100
Benzene	1.0	480 D	490 D	3.1	3.1	U	U	29	31	U	U	9.7	9.2
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	4.6	4.6	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	5.4	5.3	U	U	3.9	3.8	72	71	U	U	U	U
Ethylbenzene	1.0	U	U	U	U	U	U	1.0	1.0	U	U	U	U

Date Pr[illegible]0/22/2014
Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional [illegible]C Filed on Site
[illegible]its in ug/l

TABLE 3

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

QC DUPLICATES - VOLATILES

Date Sampled:		09/30/14	09/30/14	10/01/14	10/01/14	10/02/14	10/02/14	10/03/14	10/03/14	10/06/14	10/06/14	10/07/14	10/07/14
Date Analyzed:	DETECTION LIMITS	10/01/14 W-114i-0914	10/01/14 Dup-7-0914	10/02/14 W-122i-0914	10/02/14 Dup-8-0914	10/02/14 OW-23-0914	10/02/14 Dup-9-0914	10/09/14 W-102s-0914	10/09/14 Dup-10-0914	10/09/14 W-7s-0914	10/09/14 Dup-11-0914	10/09/14 K-28d-0914	10/09/14 Dup-12-0914
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	10	10	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	36	36	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	62	65	U	U	U	U

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries											
1,2-Dichloroethane-d4	50	108	114	108	106	106	108	101	108	106	107	106	97
Toluene-d8	50	99	99	100	97	101	102	101	100	102	101	100	98
4-Bromofluorobenzene	50	106	104	103	101	103	103	103	101	102	102	102	101
1,2-Dichlorobenzene-d4	50	98	96	98	97	98	97	108	113	99	100	101	101

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 4
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC DUPLICATES - SEMIVOLATILES

Date Sampled:		09/22/14	09/22/14	09/22/14	09/22/14	09/23/14	09/23/14	09/23/14	09/23/14	09/25/14	09/25/14	09/29/14	09/29/14
Date Extracted:	DET. LIMITS	09/23/14 EW-6-0914	09/23/14 Dup-1-0914	09/23/14 EW-9-0914	09/23/14 Dup-2-0914	09/23/14 MW-34d-0914	09/23/14 Dup-3-0914	09/24/14 K-32s-0914	09/24/14 Dup-4-0914	09/25/14 K-4sR-0914	09/25/14 Dup-5-0914	09/29/14 W-105i-0914	09/29/14 Dup-6-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed [redacted]ishbeck, Thompson, Carr, and Huber
Additional [redacted] Filed on Site
[redacted]s in ug/l

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC DUPLICATES - SEMIVOLATILES

Date Sampled:		09/22/14	09/22/14	09/22/14	09/22/14	09/23/14	09/23/14	09/23/14	09/23/14	09/25/14	09/25/14	09/29/14	09/29/14
Date Extracted:	DET. LIMITS	09/23/14 EW-6-0914	09/23/14 Dup-1-0914	09/23/14 EW-9-0914	09/23/14 Dup-2-0914	09/23/14 MW-34d-0914	09/23/14 Dup-3-0914	09/24/14 K-32s-0914	09/24/14 Dup-4-0914	09/25/14 K-4sR-0914	09/25/14 Dup-5-0914	09/29/14 W-105i-0914	09/29/14 Dup-6-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 4
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC DUPLICATES - SEMIVOLATILES

Date Sampled: / Date Extracted:	DET. LIMITS	09/22/14 09/23/14 EW-6-0914	09/22/14 09/23/14 Dup-1-0914	09/22/14 09/23/14 EW-9-0914	09/22/14 09/23/14 Dup-2-0914	09/23/14 09/23/14 MW-34d-0914	09/23/14 09/23/14 Dup-3-0914	09/23/14 09/24/14 K-32s-0914	09/23/14 09/24/14 Dup-4-0914	09/25/14 09/25/14 K-4sR-0914	09/25/14 09/25/14 Dup-5-0914	09/29/14 09/29/14 W-105i-0914	09/29/14 09/29/14 Dup-6-0914
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U	6.4	6.4	U	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	11	10	27	24	U	U	U	U	U	U	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	9.0	8.4	340 D	290 D	U	U	U	U	U	U	U	U
n-Ethylaniline	5.0	47	45	68	60	U	U	U	U	U	U	U	U
n-Methylaniline	5.0	35	32	79	71	U	U	U	U	U	U	U	U
Tetramethylurea	5.0	5.8	5.6	U	U	U	U	U	U	U	U	U	U
Aniline	5.0	330 D	290 D	32	25	U	U	U	U	U	U	U	U

D=Quantified from a dilution

* See Narrative

Surrogates	Spike Percent Recoveries												
2-Fluorophenol	50	47	42	44	38	41	41	39	42	36	39	41	37
Phenol-d6	50	19	18	29	26	28	28	26	28	23	26	27	25
Nitrobenzene-d5	100	75	69	72	61	65	63	71	78	60	64	76	73
2-Fluorobiphenyl	100	81	73	77	72	72	69	79	80	60	64	77	78
2,4,6-Tribromophenol	50	111	105	99	109	101	101	95	88	90	94	105	102
p-Terphenyl-d14	100	92	94	92	96	91	84	101	90	101	98	99	95

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC DUPLICATES - SEMIVOLATILES

Date Sampled: / Date Extracted:	DET. LIMITS	09/30/14 10/01/14 W-114i-0914	09/30/14 10/01/14 Dup-7-0914	10/01/14 10/01/14 W-122i-0914	10/01/14 10/01/14 Dup-8-0914	10/02/14 10/06/14 OW-23-0914	10/02/14 10/06/14 Dup-9-0914	10/03/14 10/06/14 W-102s-0914	10/03/14 10/06/14 Dup-10-0914	10/06/14 10/07/14 W-7s-0914	10/06/14 10/07/14 Dup-11-0914	10/07/14 10/07/14 K-28d-0914	10/07/14 10/07/14 Dup-12-0914
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	6.7	6.4	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	24	22	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	40	32	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 4
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC DUPLICATES - SEMIVOLATILES

Date Sampled:		09/30/14	09/30/14	10/01/14	10/01/14	10/02/14	10/02/14	10/03/14	10/03/14	10/06/14	10/06/14	10/07/14	10/07/14
Date Extracted:	DET. LIMITS	10/01/14 W-114i-0914	10/01/14 Dup-7-0914	10/01/14 W-122i-0914	10/01/14 Dup-8-0914	10/06/14 OW-23-0914	10/06/14 Dup-9-0914	10/06/14 W-102s-0914	10/06/14 Dup-10-0914	10/07/14 W-7s-0914	10/07/14 Dup-11-0914	10/07/14 K-28d-0914	10/07/14 Dup-12-0914
2-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U	U	U	U	U

Date Pri[redacted]/22/2014
Samples Collected and Analyzed B[redacted]ishbeck, Thompson, Carr, and Huber
Additional [redacted] Filed on Site
a[redacted]s in ug/l

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC DUPLICATES - SEMIVOLATILES

Date Sampled: / Date Extracted:	DET. LIMITS	09/30/14 10/01/14 W-114i-0914	09/30/14 10/01/14 Dup-7-0914	10/01/14 10/01/14 W-122i-0914	10/01/14 10/01/14 Dup-8-0914	10/02/14 10/06/14 OW-23-0914	10/02/14 10/06/14 Dup-9-0914	10/03/14 10/06/14 W-102s-0914	10/03/14 10/06/14 Dup-10-0914	10/06/14 10/07/14 W-7s-0914	10/06/14 10/07/14 Dup-11-0914	10/07/14 10/07/14 K-28d-0914	10/07/14 10/07/14 Dup-12-0914
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Camphor	5.0	1200 D	1200 D	U	U	U	U	U	U	U	U	14	15
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	37	35	63	64	21	21	110	120	U	U	810 D	870 D
n-Ethylaniline	5.0	45	52	33	33	U	U	76	80	U	U	40	44
n-Methylaniline	5.0	94	95	U	5.6	5.9	6.0	29	30	U	U	25	27
Tetramethylurea	5.0	12	11	U	U	U	U	U	U	U	U	U	U
Aniline	5.0	5000 D	4800 D	U	U	U	U	U	U	U	U	U	U

D=Quantified from a dilution

* See Narrative

Surrogates	Spike Percent Recoveries												
2-Fluorophenol	50	47	44	43	47	38	48	45	42	42	44	45	45
Phenol-d6	50	30	27	29	31	25	37	32	30	31	31	32	32
Nitrobenzene-d5	100	92 *	91 *	79	83	69	73	76	74	72	75	71	79
2-Fluorobiphenyl	100	63	58	78	87	70	80	96	73	81	75	78	88
2,4,6-Tribromophenol	50	103	101	90	102	79	82	91	77	97	83	88	98
p-Terphenyl-d14	100	99	107	109	115	89	90	132 *	91	109	98	106	111

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

All units in ug/l

TABLE 5
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON,
SEPTEMBER, 2014
QC TRIP BLANKS - VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/22/14 09/23/14 TB092214	09/23/14 09/24/14 TB092314	09/24/14 09/24/14 TB092414	09/25/14 09/29/14 TB092514	09/26/14 09/29/14 TB092614	09/29/14 10/01/14 TB092914	09/30/14 10/01/14 TB093014	10/01/14 10/02/14 TB100114	10/02/14 10/02/14 TB100214	10/03/14 10/09/14 TB100314	10/06/14 10/09/14 TB100614	10/07/14 10/13/14 TB100714
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Benzene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed [redacted]shbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON,
SEPTEMBER, 2014
QC TRIP BLANKS - VOLATILES

Date Sampled: / Date Analyzed:	DETECTION LIMITS	09/22/14 09/23/14 TB092214	09/23/14 09/24/14 TB092314	09/24/14 09/24/14 TB092414	09/25/14 09/29/14 TB092514	09/26/14 09/29/14 TB092614	09/29/14 10/01/14 TB092914	09/30/14 10/01/14 TB093014	10/01/14 10/02/14 TB100114	10/02/14 10/02/14 TB100214	10/03/14 10/09/14 TB100314	10/06/14 10/09/14 TB100614	10/07/14 10/13/14 TB100714
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U	U	U

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries											
1,2-Dichloroethane-d4	50	102	96	97	102	103	104	105	104	105	102	102	98
Toluene-d8	50	102	100	96	98	97	96	97	101	101	104	100	100
4-Bromofluorobenzene	50	90	94	92	103	104	101	102	103	102	102	102	100
1,2-Dichlorobenzene-d4	50	98	97	97	98	97	98	98	98	97	100	100	103

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 6
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC METHOD BLANKS - VOLATILES

Date Analyzed:	DETECTION LIMITS	09/23/14 MB092301	09/24/14 MB092401	09/25/14 MB092501	09/29/14 MB092901	10/01/14 MB100101	10/02/14 MB100201	10/03/14 MB100301	10/09/14 MB100914	10/12/14 MB101314	10/14/14 MB101414
Dichlorodifluoromethane	1.0	U	U	U	U	U	U	U	U	U	U
Chloromethane	5.0	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	1.0	U	U	U	U	U	U	U	U	U	U
Bromomethane	5.0	U	U	U	U	U	U	U	U	U	U
Chloroethane	1.0	U	U	U	U	U	U	U	U	U	U
Trichlorofluoromethane	1.0	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U
Acetone	10	U	U	U	U	U	U	U	U	U	U
Carbon Disulfide	5.0	U	U	U	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U
cis-1,2-Dichloroethene	1.0	U	U	U	U	U	U	U	U	U	U
Chloroform	1.0	U	U	U	U	U	U	U	U	U	U
Tetrahydrofuran	5.0	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	1.0	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethane	1.0	U	U	U	U	U	U	U	U	U	U
Benzene	1.0	U	U	U	U	U	U	U	U	U	U
Trichloroethene	1.0	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	1.0	U	U	U	U	U	U	U	U	U	U
Bromodichloromethane	1.0	U	U	U	U	U	U	U	U	U	U
cis-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U
Toluene	1.0	U	U	U	U	U	U	U	U	U	U
trans-1,3-Dichloropropene	1.0	U	U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	1.0	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	1.0	U	U	U	U	U	U	U	U	U	U
Dibromochloromethane	1.0	U	U	U	U	U	U	U	U	U	U
Chlorobenzene	1.0	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	1.0	U	U	U	U	U	U	U	U	U	U

Samples Collected and Analyzed [illegible]ahbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

[illegible]its in ug/l

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC METHOD BLANKS - VOLATILES

Date Analyzed:	DETECTION LIMITS	09/23/14 MB092301	09/24/14 MB092401	09/25/14 MB092501	09/29/14 MB092901	10/01/14 MB100101	10/02/14 MB100201	10/03/14 MB100301	10/09/14 MB100914	10/12/14 MB101314	10/14/14 MB101414
Xylenes (total)	3.0	U	U	U	U	U	U	U	U	U	U
Styrene	1.0	U	U	U	U	U	U	U	U	U	U
Bromoform	1.0	U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	1.0	U	U	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	2.0	U	U	U	U	U	U	U	U	U	U

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries									
1,2-Dichloroethane-d4	50	98	97	97	103	106	104	108	104	99	99
Toluene-d8	50	99	100	99	98	98	101	102	100	101	100
4-Bromofluorobenzene	50	94	93	93	103	103	102	99	101	101	100
1,2-Dichlorobenzene-d4	50	98	97	99	98	98	99	95	99	102	102

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 7
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC METHOD BLANKS-SEMIVOLATILES

Date Extracted:	DETECTION LIMITS	09/23/14 MB092301	09/24/14 MB092401	09/25/14 MB092501	09/29/14 MB092901	10/01/14 MB100101	10/06/14 MB100601	10/07/14 MB100701	10/14/14 MB101401
bis(2-Chloroethyl)ether	5.0	U	U	U	U	U	U	U	U
2-Chlorophenol	5.0	U	U	U	U	U	U	U	U
Phenol	5.0	U	U	U	U	U	U	U	U
1,3-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U
1,2-Dichlorobenzene	5.0	U	U	U	U	U	U	U	U
Benzyl alcohol	20	U	U	U	U	U	U	U	U
bis(2-Chloroisopropyl)ether	5.0	U	U	U	U	U	U	U	U
2-Methylphenol	5.0	U	U	U	U	U	U	U	U
4-Methylphenol	5.0	U	U	U	U	U	U	U	U
n-Nitroso-di-n-propylamine	5.0	U	U	U	U	U	U	U	U
Hexachloroethane	5.0	U	U	U	U	U	U	U	U
Nitrobenzene	5.0	U	U	U	U	U	U	U	U
Isophorone	5.0	U	U	U	U	U	U	U	U
2-Nitrophenol	5.0	U	U	U	U	U	U	U	U
2,4-Dimethylphenol	5.0	U	U	U	U	U	U	U	U
bis(2-Chloroethoxy)methane	5.0	U	U	U	U	U	U	U	U
Benzoic acid	50	U	U	U	U	U	U	U	U
1,2,4-Trichlorobenzene	5.0	U	U	U	U	U	U	U	U
2,4-Dichlorophenol	5.0	U	U	U	U	U	U	U	U
Naphthalene	5.0	U	U	U	U	U	U	U	U
4-Chloroaniline	20	U	U	U	U	U	U	U	U
Hexachloro-1,3-butadiene	5.0	U	U	U	U	U	U	U	U
4-Chloro-3-methylphenol	5.0	U	U	U	U	U	U	U	U
2-Methylnaphthalene	5.0	U	U	U	U	U	U	U	U
Hexachlorocyclopentadiene	5.0	U	U	U	U	U	U	U	U
2,4,6-Trichlorophenol	5.0	U	U	U	U	U	U	U	U
2,4,5-Trichlorophenol	5.0	U	U	U	U	U	U	U	U
2-Chloronaphthalene	5.0	U	U	U	U	U	U	U	U

Samples Collected and Analyze[redacted]hbeck, Thompson, Carr and Huber
Additional [redacted]C Filed on Site

[redacted]its in ug/l

OTT/STORY/CORDOVA SUPERFU SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC METHOD BLANKS-SEMIVOLATILES

Date Extracted:	DETECTION LIMITS	09/23/14 MB092301	09/24/14 MB092401	09/25/14 MB092501	09/29/14 MB092901	10/01/14 MB100101	10/06/14 MB100601	10/07/14 MB100701	10/14/14 MB101401
2-Nitroaniline	20	U	U	U	U	U	U	U	U
Dimethylphthalate	5.0	U	U	U	U	U	U	U	U
Acenaphthylene	5.0	U	U	U	U	U	U	U	U
2,6-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U
3-Nitroaniline	20	U	U	U	U	U	U	U	U
Acenaphthene	5.0	U	U	U	U	U	U	U	U
Dibenzofuran	5.0	U	U	U	U	U	U	U	U
2,4-Dinitrotoluene	5.0	U	U	U	U	U	U	U	U
4-Nitrophenol	20	U	U	U	U	U	U	U	U
2,4-Dinitrophenol	20	U	U	U	U	U	U	U	U
Diethylphthalate	5.0	U	U	U	U	U	U	U	U
Fluorene	5.0	U	U	U	U	U	U	U	U
4-Chlorophenyl-phenylether	5.0	U	U	U	U	U	U	U	U
4-Nitroaniline	20	U	U	U	U	U	U	U	U
4,6-Dinitro-2-methylphenol	20	U	U	U	U	U	U	U	U
n-Nitrosodiphenylamine	5.0	U	U	U	U	U	U	U	U
4-Bromophenyl-phenylether	5.0	U	U	U	U	U	U	U	U
Hexachlorobenzene	5.0	U	U	U	U	U	U	U	U
Pentachlorophenol	20	U	U	U	U	U	U	U	U
Phenanthrene	5.0	U	U	U	U	U	U	U	U
Carbazole	5.0	U	U	U	U	U	U	U	U
Anthracene	5.0	U	U	U	U	U	U	U	U
Di-n-butylphthalate	5.0	U	U	U	U	U	U	U	U
Fluoranthene	5.0	U	U	U	U	U	U	U	U
Pyrene	5.0	U	U	U	U	U	U	U	U
Butylbenzylphthalate	5.0	U	U	U	U	U	U	U	U
Benzo(a)anthracene	5.0	U	U	U	U	U	U	U	U
Chrysene	5.0	U	U	U	U	U	U	U	U
3,3'-Dichlorobenzidine	20	U	U	U	U	U	U	U	U
bis(2-Ethylhexyl)phthalate	5.0	U	U	U	U	U	U	U	U

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr and Huber
Additional QA/QC Filed on Site

all units in ug/l

TABLE 7
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC METHOD BLANKS-SEMIVOLATILES

Date Extracted:	DETECTION LIMITS	09/23/14 MB092301	09/24/14 MB092401	09/25/14 MB092501	09/29/14 MB092901	10/01/14 MB100101	10/06/14 MB100601	10/07/14 MB100701	10/14/14 MB101401
Di-n-octylphthalate	5.0	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	5.0	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	5.0	U	U	U	U	U	U	U	U
Benzo(a)pyrene	5.0	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	5.0	U	U	U	U	U	U	U	U
Dibenzo(a,h)anthracene	5.0	U	U	U	U	U	U	U	U
Benzo(g,h,i)perylene	5.0	U	U	U	U	U	U	U	U
Camphor	5.0	U	U	U	U	U	U	U	U
1,1-Dichloro-2,2-diethoxyethane	5.0	U	U	U	U	U	U	U	U
2-Ethylaniline	5.0	U	U	U	U	U	U	U	U
n,n-Dimethylaniline	5.0	U	U	U	U	U	U	U	U
n-Ethylaniline	5.0	U	U	U	U	U	U	U	U
n-Methylaniline	5.0	U	U	U	U	U	U	U	U
Tetramethylurea	5.0	U	U	U	U	U	U	U	U
Aniline	5.0	U	U	U	U	U	U	U	U

D=Quantified from a dilution

* See Narrative

Surrogates	Spike	Percent Recoveries							
2-Fluorophenol	50	44	40	40	43	43	45	45	51
Phenol-d6	50	31	26	26	31	30	31	30	32
Nitrobenzene-d5	100	66	62	63	72	72	74	69	78
2-Fluorobiphenyl	100	64	68	61	68	81	75	69	81
2,4,6-Tribromophenol	50	81	100	87	81	81	81	82	90
p-Terphenyl-d14	100	82	115	103	91	95	97	98	98

TABLE 8
OT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES-VOLATILES

Date Sampled: / Date Analyzed:	09/22/14 09/23/14 Recovery % MS EW-1-0914	09/22/14 09/23/14 Recovery % MSD EW-1-0914	RPD %	09/22/14 09/24/14 Recovery % MS EW-7-0914	09/22/14 09/24/14 Recovery % MSD EW-7-0914	RPD %	09/24/14 09/25/14 Recovery % MS W-123d-0914	09/24/14 09/25/14 Recovery % MSD W-123d-0914	RPD %	09/26/14 09/29/14 Recovery % MS W-6d-0914	09/26/14 09/29/14 Recovery % MSD W-6d-0914	RPD %	Control Limits % MS/MSD Recovery %	Control Limits % MS/MSD RPD%
Dichlorodifluoromethane	94	95	-0.8	89	91	-2.7	83	83	-0.5	89	90	-1.3	64-116	30
Chloromethane	101	100	1.1	73	76	-3.0	71	73	-2.3	98	99	-1.3	65-124	30
Vinyl Chloride	104	101	2.9	93	95	-1.7	87	88	-1.0	94	94	0.1	75-118	30
Bromomethane	105	109	-3.6	113	115	-1.4	103	105	-1.8	94	98	-4.1	70-136	30
Chloroethane	99	98	1.5	99	101	-1.8	92	93	-1.0	95	94	0.5	78-118	30
Trichlorofluoromethane	101	99	2.1	101	105	-3.5	98	98	-0.3	96	95	1.2	82-118	30
1,1-Dichloroethene	98	96	1.8	97	98	-1.0	89	89	0.1	95	94	0.3	77-119	30
Acetone	91	89	1.7	72	73	-1.3	76	78	-2.5	94	96	-1.9	64-118	30
Carbon Disulfide	95	94	0.2	99	94	5.7	82	84	-2.1	90	90	-0.9	71-120	30
trans-1,2-Dichloroethene	98	96	2.0	99	98	1.6	90	92	-1.5	97	97	0.4	78-119	30
1,1-Dichloroethane	103	102	1.1	95	97	-1.7	89	89	0	100	100	0.1	77-120	30
cis-1,2-Dichloroethene	99	100	-0.9	102	102	0.2	94	94	0.5	100	101	-0.4	80-119	30
Chloroform	105	103	1.8	99	100	-1.2	95	94	0.9	100	100	0.1	79-121	30
Tetrahydrofuran	98	96	2.3	58	64	-3.8	59	59	0	105	106	-0.8	43-154	30
1,1,1-Trichloroethane	106	104	1.6	99	102	-2.9	95	96	-0.9	101	101	0.1	80-120	30
Carbon Tetrachloride	107	102	5.3	104	107	-2.9	101	102	-0.3	101	102	-0.5	80-124	30
1,2-Dichloroethane	107	107	0.0	94	95	-1.1	92	92	0.0	102	104	-1.3	79-119	30
Benzene	103	101	1.6	96	98	-1.7	93	93	0.1	100	100	0.3	78-121	30
Trichloroethene	96	98	-1.9	97	97	-0.5	90	90	0.1	96	97	-0.2	76-113	30
1,2-Dichloropropane	97	107	-9.8	100	101	-1.5	95	96	-0.8	101	102	-1.1	82-118	30
Bromodichloromethane	100	109	-9.4	103	106	-2.0	99	98	0.5	103	104	-0.8	79-123	30
cis-1,3-Dichloropropene	101	104	-2.5	105	105	-0.2	98	97	0.7	102	103	-0.3	83-123	30
Toluene	97	101	-4.2	99	101	-1.2	94	95	-0.8	101	101	-0.6	83-109	30
trans-1,3-Dichloropropene	99	103	-4.3	98	100	-1.2	95	94	0.5	100	101	-1.6	81-111	30
1,1,2-Trichloroethane	98	102	-4.6	96	98	-2.8	97	97	-0.3	102	103	-0.8	78-111	30
Tetrachloroethene	102	104	-2.4	104	106	-1.4	101	101	-0.9	99	100	-0.6	79-113	30
Dibromochloromethane	100	106	-5.8	101	104	-2.6	103	102	0.9	103	104	-1.0	81-113	30
Chlorobenzene	102	102	0.6	101	101	-0.8	97	96	0.7	100	101	-1.6	81-109	30
Ethylbenzene	107	102	4.7	98	100	-2.0	95	94	0.6	101	102	-0.9	84-113	30
m,p-Xylene	110	106	4.0	101	103	-1.5	99	98	0.6	101	102	-0.8	86-117	30
o-Xylene	111	114	-2.0	100	101	-1.2	96	95	0.5	103	103	-0.8	87-119	30
Styrene	112	114	-1.6	103	104	-0.8	98	98	0.7	102	103	-1.1	92-120	30
Bromoform	106	114	-7.3	97	101	-3.7	99	99	0	106	106	-0.5	83-114	30
1,1,2,2-Tetrachloroethane	117	115	1.6	99	106	-6.9	104	107	-2.6	115	116	-1.5	80-128	30
1,3-Dichlorobenzene	107	104	2.2	104	106	-1.9	101	102	-0.7	102	104	-2.6	81-109	30
1,4-Dichlorobenzene	106	105	1.0	102	105	-2.5	100	100	-0.5	100	102	-2.1	77-109	30
1,2-Dichlorobenzene	107	107	0.3	103	105	-1.2	101	102	-1.1	103	104	-1.3	83-111	30

* See Narrative, MI - Matrix Interference

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

TABLE 8
OT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES-VOLATILES

Date Sampled: / Date Analyzed:	09/29/14 10/01/14 Recovery % MS W-105I-0914	09/29/14 10/01/14 Recovery % MSD W-105I-0914	RPD %	09/30/14 10/01/14 Recovery % MS W-120I-0914	09/30/14 10/01/14 Recovery % MSD W-120I-0914	RPD %	10/01/14 10/02/14 Recovery % MS MW-12s-0914	10/01/14 10/02/14 Recovery % MSD MW-12s-0914	RPD %	10/02/14 10/03/14 Recovery % MS W-103s-0914	10/02/14 10/03/14 Recovery % MSD W-103s-0914	RPD %	Control Limits % MS/MSD Recovery %	Control Limits % MS/MSD RPD%
Dichlorodifluoromethane	85	89	-5.2	81	85	-5.0	83	83	-0.7	80	77	3.1	64-116	30
Chloromethane	100	105	-4.1	102	103	-0.5	95	100	-4.9	93	94	-0.9	72-116	30
Vinyl Chloride	93	98	-5.5	95	97	-2.2	90	92	-2.7	88	88	0.2	75-118	30
Bromomethane	85	93	-8.9	92	93	-1.4	100	102	-1.7	93	100	-6.8	70-136	30
Chloroethane	94	97	-3.2	90	92	-2.6	95	94	1.0	98	92	5.7	78-118	30
Trichlorofluoromethane	99	102	-2.3	94	97	-3.2	98	97	1.3	100	94	5.8	82-118	30
1,1-Dichloroethene	90	95	-5.8	88	90	-2.1	91	90	1.5	94	89	5.7	77-119	30
Acetone	117	110	6.2	100	120	-18.2	104	108	-4.0	94	99	-4.8	64-118	30
Carbon Disulfide	79	87	-10.0	85	86	-1.0	81	80	1.0	85	80	6.3	71-120	30
trans-1,2-Dichloroethene	91	96	-5.5	91	92	-1.7	92	92	0.2	97	91	6.2	78-119	30
1,1-Dichloroethane	99	102	-2.7	97	100	-2.4	99	98	0.8	105	100	5.2	77-120	30
cis-1,2-Dichloroethene	95	99	-4.2	94	97	-3.0	96	97	-0.9	102	97	4.3	80-119	30
Chloroform	100	103	-2.5	84	85	-1.2	95	96	-1.2	101	96	5.0	79-121	30
Tetrahydrofuran	129	123	5.3	MI	MI	MI	125	129	-3.3	100	103	-2.8	43-154	30
1,1,1-Trichloroethane	100	103	-2.6	94	96	-1.9	99	98	0.2	105	100	5.5	80-120	30
Carbon Tetrachloride	100	102	-2.1	96	98	-2.0	99	98	1.1	105	100	4.9	80-124	30
1,2-Dichloroethane	105	108	-2.0	103	103	-0.5	102	102	0.3	108	105	3.1	79-119	30
Benzene	98	100	-2.3	88	91	-2.0	98	98	-0.3	101	96	5.1	78-121	30
Trichloroethene	92	97	-4.7	90	92	-1.7	96	95	0.7	100	94	6.6	76-113	30
1,2-Dichloropropane	102	104	-1.9	97	100	-2.8	103	102	1.1	108	101	6.0	82-118	30
Bromodichloromethane	102	105	-2.0	100	101	-1.2	98	98	0.0	105	99	5.1	79-123	30
cis-1,3-Dichloropropene	101	105	-4.1	98	100	-1.6	102	103	-0.6	109	104	5.0	83-123	30
Toluene	97	98	-0.8	95	96	-0.7	99	99	-0.4	103	98	5.4	83-109	30
trans-1,3-Dichloropropene	100	102	-2.2	98	97	0.9	100	102	-2.0	106	101	4.9	81-111	30
1,1,2-Trichloroethane	104	105	-1.3	101	100	1.1	100	102	-2.5	102	97	4.9	78-111	30
Tetrachloroethene	93	96	-3.2	91	92	-1.2	96	96	0.2	104	98	5.9	79-113	30
Dibromochloromethane	101	103	-1.6	100	100	0.1	98	99	-0.6	101	98	3.2	81-113	30
Chlorobenzene	94	98	-3.8	94	95	-0.3	98	98	-0.4	98	82	9.6	81-109	30
Ethylbenzene	100	101	-0.3	96	96	-0.6	100	101	-0.9	106	95	10.0	84-113	30
m,p-Xylene	99	100	-1.5	96	96	-0.2	99	101	-2.4	106	96	10.3	86-117	30
o-Xylene	102	103	-1.1	99	98	0.3	100	104	-4.0	108	100	7.0	87-119	30
Styrene	101	103	-1.7	98	98	-0.2	102	106	-3.7	110	103	6.8	92-120	30
Bromoform	107	108	-0.5	101	100	0.6	104	109	-4.7	106	104	1.8	83-114	30
1,1,2,2-Tetrachloroethane	126	124	1.8	117	116	0.3	112	114	-2.6	105	107	-1.1	80-128	30
1,3-Dichlorobenzene	98	101	-3.8	96	96	0.0	98	97	1.0	100	97	2.9	81-109	30
1,4-Dichlorobenzene	97	101	-3.3	95	94	0.7	95	97	-1.6	99	93	4.8	77-109	30
1,2-Dichlorobenzene	100	103	-2.4	97	97	0.1	99	100	-1.5	96	94	1.8	83-111	30

* See Narrative, MI - Matrix Interference

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional [redacted] Filed on Site

TABLE 8
OT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES-VOLATILES

Date Sampled: / Date Analyzed:	10/03/14 10/03/14 Recovery % MS OW-9d-0914	10/03/14 10/03/14 Recovery % MSD OW-9d-0914	RPD %	10/06/14 10/09/14 Recovery % MS TW-A-0914	10/06/14 10/09/14 Recovery % MSD TW-A-0914	RPD %	10/07/14 10/13/14 Recovery % MS W-17d-0914	10/07/14 10/13/14 Recovery % MSD W-17d-0914	RPD %	10/07/14 10/14/14 Recovery % MS UW-1-0914	10/07/14 10/14/14 Recovery % MSD UW-1-0914	RPD %	Control Limits % MS/MSD Recovery %	Control Limits % MS/MSD RPD%
Dichlorodifluoromethane	79	81	-3.1	107	119 *	-10.6	90	91	-1.2	86	84	2.3	64-116	30
Chloromethane	98	100	-1.4	97	128 *	-26.9	76	82	-7.8	82	76	6.6	72-116	30
Vinyl Chloride	89	92	-3.5	75	97	-10.6	MI	MI	MI	87	82	6.0	75-118	30
Bromomethane	94	91	2.6	113	111	1.6	93	105	-12.4	120	124	-4.0	70-136	30
Chloroethane	90	95	-4.4	104	113	-8.3	89	91	-2.0	91	88	3.5	78-118	30
Trichlorofluoromethane	97	101	-3.8	109	112	-2.9	95	97	-2.2	94	93	0.9	82-118	30
1,1-Dichloroethene	86	88	-2.0	104	107	-2.8	88	87	0.9	90	89	1.6	77-119	30
Acetone	106	108	-1.7	102	105	-2.7	98	102	-4.8	102	109	-6.8	64-118	30
Carbon Disulfide	85	85	0.0	101	105	-4.2	83	84	-0.3	91	79	13.6	71-120	30
trans-1,2-Dichloroethene	88	91	-3.2	102	105	-3.0	92	90	1.2	94	87	7.3	78-119	30
1,1-Dichloroethane	96	99	-3.3	105	104	1.0	85	87	-1.9	90	87	2.6	77-120	30
cis-1,2-Dichloroethene	94	96	-2.1	103	106	-3.2	91	91	-0.2	92	88	3.8	80-119	30
Chloroform	88	92	-3.5	102	104	-2.6	89	91	-1.8	91	88	3.2	79-121	30
Tetrahydrofuran	106	122	-3.7	91	94	-2.1	90	96	-4.7	84	93	-9.5	43-154	30
1,1,1-Trichloroethane	97	103	-6.2	107	110	-3.5	87	88	-1.1	91	90	1.3	80-120	30
Carbon Tetrachloride	97	102	-5.5	106	108	-2.0	94	95	-1.3	93	91	2.2	80-124	30
1,2-Dichloroethane	103	106	-3.5	102	109	-4.9	MI	MI	MI	103	99	4.3	79-119	30
Benzene	93	98	-4.3	100	105	-3.9	93	95	-2.2	96	93	2.4	78-121	30
Trichloroethene	92	95	-3.2	104	107	-2.5	94	94	0.6	93	90	3.5	76-113	30
1,2-Dichloropropane	101	103	-2.2	106	110	-3.7	92	94	-1.4	92	89	3.3	82-118	30
Bromodichloromethane	97	101	-4.5	109	113	-3.5	94	96	-2.6	95	92	3.1	79-123	30
cis-1,3-Dichloropropene	97	99	-1.1	109	116	-5.8	96	99	-3.0	97	93	3.9	83-123	30
Toluene	99	94	5.2	107	107	-0.2	94	96	-1.1	93	91	1.4	83-109	30
trans-1,3-Dichloropropene	101	98	3.6	103	112	-8.6	93	96	-3.4	94	92	1.8	73-117	30
1,1,2-Trichloroethane	104	101	2.9	103	113	-9.0	97	99	-2.9	95	95	-0.7	71-116	30
Tetrachloroethene	100	102	-2.4	102	110	-7.1	97	98	-1.1	96	94	1.2	79-113	30
Dibromochloromethane	101	101	0.3	104	110	-5.8	96	99	-2.8	96	95	1.4	81-113	30
Chlorobenzene	97	100	-2.6	102	104	-2.0	93	95	-1.5	95	93	3.1	81-109	30
Ethylbenzene	97	103	-5.9	107	107	0.0	94	95	-1.4	94	93	1.6	84-113	30
m,p-Xylene	98	103	-5.3	107	110	-2.2	96	97	-1.1	96	94	2.7	86-117	30
o-Xylene	100	103	-3.1	109	109	-0.6	96	97	-0.9	96	95	1.6	87-119	30
Styrene	103	104	-1.4	115	118	-2.2	99	100	-1.6	99	96	2.7	92-120	30
Bromoform	110	109	0.6	110	113	-2.4	103	107	-4.0	101	102	-1.8	83-114	30
1,1,2,2-Tetrachloroethane	110	115	-4.0	111	109	1.3	102	105	-3.0	98	103	-5.5	80-128	30
1,3-Dichlorobenzene	95	97	-1.5	103	107	-3.8	95	95	0.1	97	94	3.5	81-109	30
1,4-Dichlorobenzene	95	97	-2.4	102	104	-2.1	89	89	-0.1	95	91	4.0	77-109	30
1,2-Dichlorobenzene	98	101	-2.9	105	107	-2.1	MI	MI	MI	91	89	1.9	83-111	30

* See Narrative, MI - Matrix Interference

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

TABLE 9
OT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES-VOLATILES

Date Analyzed:	09/23/14 Recovery % LCS LS092301	09/23/14 Recovery % LCD LD092301	RPD %	09/24/14 Recovery % LCS LS092401	09/25/14 Recovery % LCS LS0925101	09/29/14 Recovery % LCS LS092901	09/29/14 Recovery % LCD LD092901	RPD %	10/01/14 Recovery % LCS LS100101	Control Limits % LCS/LCD Recovery %	Control Limits % LCS/LCD RPD%
Dichlorodifluoromethane	94	96	-2.0	85	90	87	88	-0.5	81	66-113	30
Chloromethane	84	86	-3.2	70	74	94	95	-1.7	95	68-119	30
Vinyl Chloride	95	95	0.6	84	88	89	90	-1.4	89	78-112	30
Bromomethane	102	103	-0.2	102	103	88	84	4.6	88	71-137	30
Chloroethane	95	94	1.1	92	90	88	89	-1.3	90	79-114	30
Trichlorofluoromethane	100	99	1.6	96	97	94	94	-0.5	95	82-114	30
1,1-Dichloroethene	97	95	1.9	90	85	90	90	-0.2	85	77-116	30
Acetone	98	102	-4.1	78	83	103	100	2.8	95	61-127	30
Carbon Disulfide	101	86	15.7	85	87	82	82	0	80	67-116	30
trans-1,2-Dichloroethene	100	93	6.9	91	90	91	92	-1.2	89	77-115	30
1,1-Dichloroethane	94	94	-0.2	89	85	95	96	-0.8	92	77-117	30
cis-1,2-Dichloroethene	101	98	2.7	94	91	94	95	-1.6	92	78-116	30
Chloroform	97	97	0.2	92	90	96	97	-1.0	94	77-118	30
Tetrahydrofuran	96	102	-5.5	76	87	110	111	-1.0	108	63-142	30
1,1,1-Trichloroethane	97	98	-1.3	93	91	96	96	-0.6	92	79-119	30
Carbon Tetrachloride	102	101	1.2	98	96	96	97	-0.9	92	79-120	30
1,2-Dichloroethane	95	96	-1.6	90	88	98	99	-1.1	97	78-117	30
Benzene	98	99	-0.9	93	89	94	95	-0.5	91	79-118	30
Trichloroethene	100	97	3.2	93	93	94	94	-0.3	92	77-116	30
1,2-Dichloropropane	101	101	-0.6	94	91	96	97	-1.6	95	80-116	30
Bromodichloromethane	103	104	-1.0	98	95	98	99	-1.0	96	79-119	30
cis-1,3-Dichloropropene	106	105	0.9	99	95	98	99	-0.4	96	81-122	30
Toluene	98	99	0.0	94	91	96	96	-0.3	92	78-109	30
trans-1,3-Dichloropropene	102	102	0.5	94	92	98	97	1.5	94	79-111	30
1;1,2-Trichloroethane	101	104	-3.3	94	91	101	100	0.3	94	77-110	30
Tetrachloroethene	104	100	3.3	97	96	95	94	1.0	89	78-109	30
Dibromochloromethane	103	105	-1.8	96	98	100	100	0.3	96	80-111	30
Chlorobenzene	99	98	0.7	94	91	94	95	-0.3	91	78-107	30
Ethylbenzene	101	100	0.5	92	89	97	96	0.5	92	79-112	30
m,p-Xylene	102	101	0.7	96	94	95	96	-0.4	92	80-116	30
o-Xylene	102	102	-0.2	95	91	98	98	0.3	94	81-118	30
Styrene	106	105	0.6	97	94	98	99	-0.4	93	84-120	30
Bromoform	111	114	-3.2	94	93	107	106	0.9	96	79-117	30
1,1,2,2-Tetrachloroethane	112	116	-3.5	94	93	111	109	1.9	101	71-118	30
1,3-Dichlorobenzene	101	99	2.3	96	98	97	97	-0.4	93	79-105	30
1,4-Dichlorobenzene	101	98	3.6	96	97	95	95	-0.2	92	76-105	30
1,2-Dichlorobenzene	104	102	1.8	96	97	97	98	-0.6	94	79-108	30

* See Narrative

Samples Collected and Analyzed [redacted] Fishbeck, Thompson, Carr, and Huber
Additiona[redacted]C Filed on Site

LE 9
OT/STORY/CORDOVA SUPERFU SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES-VOLATILES

Date Analyzed:	10/02/14 Recovery % LCS LS100201	10/02/14 Recovery % LCD LD100201	RPD %	10/03/14 Recovery % LCS LS100301	10/09/14 Recovery % LCS LS100901	10/09/14 Recovery % LCD LD100901	RPD %	10/13/14 Recovery % LCS LS101301	10/13/14 Recovery % LCD LD101301	RPD %	10/14/14 Recovery % LCS LS101401	Control Limits % LCS/LCD Recovery %	Control Limits % LCS/LCD RPD%
Dichlorodifluoromethane	87	86	1.0	79	89	112	-22.7	82	86	-5.3	87	66-113	30
Chloromethane	96	101	-4.6	88	79	100	-23.1	73	77	-5.3	81	68-119	30
Vinyl Chloride	92	94	-1.2	84	78	100	-24.4	75	79	-4.9	86	72-118	30
Bromomethane	102	100	2.2	88	98	117	-17.3	110	100	9.6	114	71-137	30
Chloroethane	95	93	2.4	93	87	102	-16.2	80	83	-3.9	91	79-114	30
Trichlorofluoromethane	100	97	2.6	96	91	107	-16.2	87	89	-2.1	96	82-114	30
1,1-Dichloroethene	92	90	2.0	89	88	103	-14.9	80	83	-3.9	92	77-116	30
Acetone	105	106	-0.8	102	95	116	-19.7	109	101	7.9	103	61-127	30
Carbon Disulfide	81	80	0.7	82	82	99	-19.1	70	75	-7.1	84	67-116	30
trans-1,2-Dichloroethene	92	91	0.8	92	84	99	-16.7	77	82	-5.9	93	77-115	30
1,1-Dichloroethane	98	98	0.3	100	86	102	-16.2	80	81	-2.0	91	77-117	30
cis-1,2-Dichloroethene	97	95	2.1	98	88	102	-14.5	80	84	-5.1	95	78-116	30
Chloroform	96	94	1.5	97	89	101	-12.9	80	83	-3.7	93	77-118	30
Tetrahydrofuran	109	108	0.2	94	92	102	-10.2	110	101	9.3	96	63-142	30
1,1,1-Trichloroethane	99	98	1.2	101	91	100	-9.2	82	85	-2.9	95	79-119	30
Carbon Tetrachloride	100	98	1.8	101	91	102	-11.0	84	85	-1.8	97	79-120	30
1,2-Dichloroethane	102	101	0.5	105	87	97	-11.6	83	86	-2.7	96	78-117	30
Benzene	98	97	1.7	98	86	97	-12.1	84	87	-2.8	96	79-118	30
Trichloroethene	98	96	2.0	97	87	99	-13.4	82	85	-3.7	97	77-116	30
1,2-Dichloropropane	101	101	0.2	103	87	99	-12.2	83	84	-1.5	95	80-116	30
Bromodichloromethane	97	97	-0.4	100	92	102	-10.7	84	87	-3.1	98	79-119	30
cis-1,3-Dichloropropene	102	102	0.5	105	96	105	-9.2	86	89	-3.6	101	81-122	30
Toluene	96	97	-1.6	100	87	98	-11.3	83	85	-2.2	95	78-109	30
trans-1,3-Dichloropropene	97	101	-3.8	103	90	99	-9.2	86	87	-1.7	97	79-111	30
1,1,2-Trichloroethane	100	100	-0.5	101	89	99	-10.4	89	91	-2.1	99	77-110	30
Tetrachloroethene	98	95	3.6	99	84	97	-14.4	85	87	-3.1	98	78-109	30
Dibromochloromethane	98	97	0.6	99	86	99	-13.3	88	90	-2.1	99	80-111	30
Chlorobenzene	98	96	1.3	100	86	97	-11.6	83	86	-2.9	97	78-107	30
Ethylbenzene	100	97	3.2	101	90	100	-10.5	83	85	-2.3	96	79-112	30
m,p-Xylene	100	95	5.0	102	90	102	-12.9	85	87	-2.7	98	80-116	30
o-Xylene	101	96	5.1	103	91	101	-10.5	85	87	-2.8	97	81-118	30
Styrene	103	99	4.0	106	95	96	-1.4	87	89	-2.6	100	84-120	30
Bromoform	105	108	-2.9	103	96	105	-8.8	98	98	-0.9	107	79-117	30
1,1,2,2-Tetrachloroethane	111	106	4.8	105	96	100	-4.6	100	99	0.8	103	71-118	30
1,3-Dichlorobenzene	95	95	0.8	97	86	96	-11.5	83	85	-2.8	99	79-105	30
1,4-Dichlorobenzene	95	95	0.4	96	84	96	-13.0	83	85	-3.2	97	76-105	30
1,2-Dichlorobenzene	98	97	1.1	97	87	99	-12.1	86	88	-2.7	100	79-108	30

* See Narrative

Samples Collected and Analyzed By: Fishbeck, Thompson, Carr, and Huber
Additional QA/QC Filed on Site

TABLE 10
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES - SEMIVOLATILES

Date Sampled:	09/22/14	09/22/14		09/24/14	09/24/14		09/29/14	09/29/14		09/30/14	09/30/14		Control	Control
Date Extracted:	09/23/14	09/23/14		09/25/14	09/25/14		09/29/14	09/29/14		10/01/14	10/01/14		Limits %	Limits %
	Recovery % MS EW-1-0914	Recovery % MSD EW-1-0914	RPD %	Recovery % MS OW-16-0914	Recovery % MSD OW-16-0914	RPD %	Recovery % MS W-105i-0914	Recovery % MSD W-105i-0914	RPD %	Recovery % MS W-120i-0914	Recovery % MSD W-120i-0914	RPD %	MS/MSD Recovery %	MS/MSD RPD%
Aniline	65	65	0.9	66	72	-9.0	79	74	6.2	MI	MI	MI	37-110	30
Phenol	30	29	5.4	26	29	-10.1	30	28	6.0	38	33	12.9	15-49	30
bis(2-Chloroethyl)ether	67	69	-3.5	68	74	-9.0	72	68	4.9	64	56	13.0	48-92	30
2-Chlorophenol	64	65	-1.3	65	71	-9.0	69	66	4.4	65	58	13.0	45-98	30
Tetramethylurea	59	58	0.3	55	57	-4.7	66	65	1.2	73	64	13.6	30-97	30
1,3-Dichlorobenzene	64	66	-2.6	66	73	-9.7	69	68	2.0	70	60	14.9	47-88	30
1,4-Dichlorobenzene	64	66	-4.2	66	71	-8.5	70	67	3.8	72	62	15.6	47-90	30
1,2-Dichlorobenzene	66	67	-2.0	68	74	-8.7	72	68	5.2	72	63	13.6	45-94	30
Benzyl Alcohol	63	63	-0.1	59	64	-7.7	67	63	6.5	67	59	14.1	43-86	30
1,1-Dichloro-2,2-diethoxy	66	67	-1.1	66	72	-8.8	83	76	8.0	70	62	12.3	39-111	30
2-Methylphenol	60	59	0.9	59	64	-8.5	66	64	2.6	67	60	12.2	43-91	30
bis(2-Chloroisopropyl)ether	70	70	-0.5	66	72	-9.4	76	70	8.2	70	61	13.1	48-91	30
n-Methylbenzeneamine	76	72	5.1	76	82	-7.9	87	81	7.1	80	62	24.8	45-116	30
Hexachloroethane	64	66	-2.8	66	72	-9.4	69	67	3.2	71	61	16.1	46-87	30
4-Methylphenol	56	56	1.0	54	59	-7.8	61	59	3.3	62	57	9.2	43-83	30
n-Nitroso-di-n-propylamine	74	73	1.0	72	78	-7.2	77	74	4.9	76	66	13.6	52-98	30
Nitrobenzene	70	71	-1.2	75	71	5.2	82	79	4.3	86	76	12.0	44-134	30
n,n-Dimethylbenzeneamine	65	65	1.3	72	76	-5.9	86	82	4.3	68	56	19.8	42-116	30
Isophorone	80	78	2.4	75	80	-6.0	81	82	-0.7	91	82	10.2	54-102	30
n-Ethylbenzeneamine	82	79	3.4	77	83	-7.5	86	81	5.5	100	82	19.3	49-116	30
2-Nitrophenol	74	74	-0.5	72	80	-9.8	75	73	3.3	80	74	7.1	50-109	30
2,4-Dimethylphenol	49	50	-2.7	66	68	-4.1	71	71	-0.7	75	64	15.5	47-95	30
Camphor	73	73	-0.5	80	86	-7.8	89	85	4.9	86	79	9.2	42-120	30
2-Ethylbenzeneamine	71	71	1.3	75	82	-8.6	86	85	1.1	87	81	7.5	45-114	30
bis(2-Chloroethoxy)methane	75	75	-0.1	74	80	-8.4	77	74	3.7	75	70	7.5	51-98	30
2,4-Dichlorophenol	73	74	-1.9	75	80	-7.1	79	77	2.4	85	77	9.2	51-109	30
1,2,4-Trichlorobenzene	72	73	-1.2	76	83	-8.6	79	75	5.0	83	77	8.0	50-96	30
Naphthalene	69	71	-1.9	72	77	-7.7	75	72	3.6	77	71	8.6	46-103	30
4-Chloroaniline	74	71	4.5	74	79	-6.4	76	74	2.2	86	78	10.5	54-100	30
Hexachlorobutadiene	69	69	-0.5	75	81	-8.3	76	73	4.0	81	74	9.6	48-94	30
4-Chloro-3-methylphenol	79	78	1.1	78	81	-4.0	81	80	1.3	93	86	8.0	59-114	30
2-Methylnaphthalene	76	75	1.6	77	80	-3.6	81	79	1.5	88	80	9.3	54-100	30
Hexachlorocyclopentadiene	50	47	7.4	48	42	14.7	55	49	10.4	42	37	12.9	21-66	30
2,4,6-Trichlorophenol	85	86	-0.8	85	88	-3.7	82	82	0.2	64	64	0.5	47-117	30
2,4,5-Trichlorophenol	85	85	-0.1	84	90	-6.8	85	81	4.9	69	68	1.9	51-116	30
2-Chloronaphthalene	80	80	-1.0	77	83	-8.1	76	76	-0.1	59	54	8.8	42-106	30
2-Nitroaniline	86	87	-1.6	77	79	-2.8	82	78	4.6	66	60	9.7	58-106	30
Dimethyl phthalate	87	88	-1.4	88	89	-0.7	81	81	0.6	62	58	6.2	52-114	30

Date Pri[redacted]1/3/2014
Samples Collected and Analyzed By: FISHBECK, THOMPSON, CARR, and HUBER
Additional [redacted] Filed on Site

TABLE 16

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES - SEMIVOLATILES

Date Sampled:	09/22/14	09/22/14		09/24/14	09/24/14		09/29/14	09/29/14		09/30/14	09/30/14			
Date Extracted:	09/23/14	09/23/14		09/25/14	09/25/14		09/29/14	09/29/14		10/01/14	10/01/14		Control	Control
	Recovery % MS EW-1-0914	Recovery % MSD EW-1-0914	RPD %	Recovery % MS OW-16-0914	Recovery % MSD OW-16-0914	RPD %	Recovery % MS W-105i-0914	Recovery % MSD W-105i-0914	RPD %	Recovery % MS W-120i-0914	Recovery % MSD W-120i-0914	RPD %	Limits % MS/MSD Recovery %	Limits % MS/MSD RPD%
Acenaphthylene	79	78	2.0	77	82	-6.6	78	76	2.1	65	60	7.8	47-113	30
2,6-Dinitrotoluene	92	94	-2.2	90	89	0.9	88	86	2.0	68	63	7.9	54-116	30
3-Nitroaniline	83	83	0.7	83	81	2.7	81	79	3.1	68	61	10.3	53-116	30
Acenaphthene	80	81	-1.2	79	81	-1.5	75	75	0.5	59	55	8.1	46-109	30
2,4-Dinitrophenol	53	51	2.3	41	34	19.0	56	58	-5.0	48	29	50 *	11-96	30
Dibenzofuran	89	90	-0.4	87	88	-0.4	89	88	1.6	76	70	8.9	54-111	30
4-Nitrophenol	34	35	-3.1	27	28	-1.0	30	32	-4.0	18	16	13.3	5-54	30
2,4-Dinitrotoluene	90	90	-0.2	89	85	4.2	87	85	2.6	69	66	4.3	58-119	30
Fluorene	82	85	-3.1	85	84	1.2	80	79	0.6	65	61	6.7	52-113	30
Diethyl phthalate	88	90	-2.5	90	86	4.0	89	86	3.5	76	72	6.1	56-118	30
4-Chlorophenyl phenyl ether	83	87	-4.1	89	89	0.5	81	81	0.8	68	65	5.5	50-113	30
4-Nitroaniline	86	88	-2.0	92	88	4.8	79	74	7.0	69	62	10.5	50-131	30
2-Methyl-4,6-dinitrophenol	78	81	-3.7	80	73	9.6	64	64	-0.2	44	39	13.4	37-109	30
n-Nitrosodiphenylamine	92	93	-0.9	95	93	2.1	87	84	3.0	73	69	5.7	55-113	30
4-Bromophenyl phenyl ether	89	91	-1.7	95	98	-2.6	84	89	-5.6	80	74	8.4	66-106	30
Hexachlorobenzene	88	90	-3.2	95	97	-2.0	90	91	-1.2	84	78	7.8	67-110	30
Pentachlorophenol	84	90	-6.3	93	87	7.3	82	80	2.9	67	68	-2.5	53-117	30
Phenanthrene	86	87	-0.4	88	88	0.6	85	83	1.4	78	72	7.9	60-120	30
Anthracene	73	75	-2.9	76	75	1.9	73	73	0.1	69	64	7.6	60-122	30
Carbazole	88	90	-2.1	96	90	6.9	89	83	7.0	99	88	12.0	72-116	30
Di-n-butyl phthalate	83	85	-2.8	87	85	2.2	89	87	1.6	96	88	9.2	65-117	30
Fluoranthene	81	86	-5.5	90	82	9.3	86	83	4.0	88	79	9.8	64-116	30
Pyrene	81	86	-5.9	90	81	10.1	88	83	6.3	91	81	12.0	63-113	30
Butyl Benzyl phthalate	90	89	0.8	81	84	-3.6	79	75	5.0	86	79	9.5	64-119	30
Benzo(a)anthracene	85	86	-1.7	86	87	-0.3	81	80	1.7	86	78	9.6	66-116	30
3,3'-Dichlorobenzidine	86	88	-2	97	94	3.4	95	93	1.4	111	102	9.0	70-144	30
Chrysene	85	88	-3.2	89	88	1.4	85	81	4.3	87	78	10.7	65-117	30
bis(2-ethylhexyl) phthalate	89	91	-1.8	86	84	2.6	82	76	7.2	98	87	10.9	61-124	30
Di-n-octyl phthalate	83	85	-2.1	88	81	8.0	70	65	6.9	88	78	11.9	58-117	30
Benzo(b)fluoranthene	78	87	-11.3	87	83	4.6	76	74	2.3	78	69	12.0	57-108	30
Benzo(k)fluoranthene	94	87	8.4	93	95	-2.0	82	75	8.9	89	76	15.0	60-121	30
Benzo(a)pyrene	82	83	-1.1	85	86	-0.7	81	77	5.3	84	74	11.8	59-112	30
Indeno(1,2,3-cd)pyrene	87	84	4.1	82	94	-14.1	102	99	2.6	106	95	11.3	54-115	30
Dibenzo(a,h)anthracene	91	86	5.2	84	98	-15.6	108	106	1.5	114	100	13.1	56-114	30
Benzo(g,h,i)perylene	88	84	4.3	80	95	-17.2	99	97	2.5	104	93	11.4	53-115	30

Samples Collected and Analyzed By: FISHBECK, THOMPSON, CARR, and HUBER
Additional QA/QC Filed on Site

TABLE 10

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES - SEMIVOLATILES

Date Sampled:	10/01/14	10/01/14		10/02/14	10/02/14		10/03/14	10/03/14		10/06/14	10/06/14			
Date Extracted:	10/01/14	10/01/14		10/06/14	10/06/14		10/06/14	10/06/14		10/07/14	10/07/14			
	Recovery % MS MW-12s-0914	Recovery % MSD MW-12s-0914	RPD %	Recovery % MS W-103s-0914	Recovery % MSD W-103s-0914	RPD %	Recovery % MS OW-9d-0914	Recovery % MSD OW-9d-0914	RPD %	Recovery % MS TW-A-0914	Recovery % MSD TW-A-0914	RPD %	Limits % MS/MSD Recovery %	Limits % MS/MSD RPD%
Aniline	60	59	2.8	68	65	5.5	87	92	-5.5	80	81	-1.8	37-110	30
Phenol	24	25	-2.9	39	37	6.3	38	38	0.2	33	34	-2.4	15-49	30
bis(2-Chloroethyl)ether	60	60	0.1	74	69	7.3	74	74	-0.8	73	75	-2.6	48-92	30
2-Chlorophenol	61	62	-2.1	79	72	8.6	72	73	-1.2	77	76	1.5	45-98	30
Tetramethylurea	51	55	-7.7	63	62	1.6	70	66	7.1	62	65	-4.7	30-97	30
1,3-Dichlorobenzene	64	64	-0.9	77	71	8.8	72	74	-2.8	74	75	-0.8	47-88	30
1,4-Dichlorobenzene	65	66	-2.0	87	81	6.6	72	74	-3.5	73	75	-1.8	47-90	30
1,2-Dichlorobenzene	65	67	-3.1	77	73	6.3	73	76	-3.1	75	77	-2.8	45-94	30
Benzyl Alcohol	60	62	-3.1	69	65	6.2	67	69	-2.3	66	67	-1.5	43-86	30
1,1-Dichloro-2,2-diethoxy	62	62	-0.5	79	74	6.4	77	79	-2.5	75	78	-3.8	39-111	30
2-Methylphenol	60	62	-3.4	76	69	8.9	70	69	1.0	38	38	0	34-99	30
bis(2-Chloroisopropyl)ether	59	60	-0.4	77	69	11.0	77	80	-2.8	77	80	-4.3	48-91	30
n-Methylbenzeneamine	70	72	-2.3	83	75	10.1	88	92	-4.3	91	99	-9	45-116	30
Hexachloroethane	62	61	1.7	72	67	7.0	69	70	-0.7	71	71	-0.9	46-87	30
4-Methylphenol	56	58	-4.0	73	69	6.2	67	64	3.9	66	67	-1.2	43-83	30
n-Nitroso-di-n-propylamine	65	68	-3.9	82	74	10.3	79	79	0.1	79	80	-2.3	52-98	30
Nitrobenzene	63	73	-15.2	90	89	0.7	84	87	-4.4	MI	MI	MI	44-134	30
n,n-Dimethylbenzeneamine	62	64	-2.0	85	74	14.0	77	136 *	-55 *	MI	MI	MI	42-116	30
Isophorone	80	86	-7.5	89	78	13.8	85	84	1.3	84	85	-0.2	54-102	30
n-Ethylbenzeneamine	78	80	-3.0	91	80	12.5	87	90	-3.2	96	98	-2.2	49-116	30
2-Nitrophenol	75	76	-1.7	86	76	11.8	77	78	-1.0	84	83	1.3	50-109	30
2,4-Dimethylphenol	61	70	-13.4	74	68	8.9	79	78	1.0	79	67	16.4	47-95	30
Camphor	72	75	-4.4	84	76	9.9	84	83	1.4	83	90	-7.7	42-120	30
2-Ethylbenzeneamine	77	81	-4.8	86	75	12.8	82	81	0.8	81	83	-2.5	45-114	30
bis(2-Chloroethoxy)methane	68	71	-4.2	83	75	10.3	79	78	1.9	79	81	-2.3	51-98	30
2,4-Dichlorophenol	76	80	-5.1	91	79	13.4	81	80	1.1	87	86	0.7	51-109	30
1,2,4-Trichlorobenzene	78	78	-0.5	84	75	11.2	78	79	-2.1	81	81	-0.1	50-96	30
Naphthalene	70	73	-3.7	82	72	13.1	76	77	-1.2	78	78	-0.6	46-103	30
4-Chloroaniline	73	76	-4.7	94	85	10.0	83	80	3.1	84	85	-1.0	54-100	30
Hexachlorobutadiene	76	71	6.3	80	71	11.2	73	76	-4.6	78	78	-0.6	48-94	30
4-Chloro-3-methylphenol	86	92	-6.9	93	86	8.4	89	85	4.2	90	87	3.7	59-114	30
2-Methylnaphthalene	79	84	-5.7	89	77	13.9	84	82	2.5	85	85	-0.1	54-100	30
Hexachlorocyclopentadiene	50	45	10.2	52	50	3.8	44	39	11.9	40	39	3.0	21-66	30
2,4,6-Trichlorophenol	88	99	-11.4	86	86	-0.4	75	71	5.7	86	80	7.0	47-117	30
2,4,5-Trichlorophenol	93	104	-11.4	91	89	2.0	85	82	3.9	88	85	4.2	51-116	30
2-Chloronaphthalene	72	77	-7.4	84	76	10.3	81	80	1.6	79	78	1.8	42-106	30
2-Nitroaniline	81	90	-10.6	85	85	0.5	86	84	2.0	81	83	-2.1	58-106	30
Dimethyl phthalate	82	93	-12.6	89	88	1.0	89	87	2.0	85	83	2.6	52-114	30

Samples Collected and Analyzed By: [redacted]ECK, THOMPSON, CARR, and HUBER
Additional [redacted]C Filed on Site

TABLE 10

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES - SEMIVOLATILES

Date Sampled:	10/01/14	10/01/14		10/02/14	10/02/14		10/03/14	10/03/14		10/06/14	10/06/14			
Date Extracted:	10/01/14	10/01/14		10/06/14	10/06/14		10/06/14	10/06/14		10/07/14	10/07/14			
	Recovery % MS MW-12s-0914	Recovery % MSD MW-12s-0914	RPD %	Recovery % MS W-103s-0914	Recovery % MSD W-103s-0914	RPD %	Recovery % MS OW-9d-0914	Recovery % MSD OW-9d-0914	RPD %	Recovery % MS TW-A-0914	Recovery % MSD TW-A-0914	RPD %	Limits % MS/MSD Recovery %	Limits % MS/MSD RPD%
Acenaphthylene	79	87	-9.7	85	79	7.0	84	82	2.8	79	78	1.0	47-113	30
2,6-Dinitrotoluene	92	102	-10.5	92	91	1.3	94	89	5.2	88	88	0.0	54-116	30
3-Nitroaniline	87	98	-12.0	90	91	-0.8	90	87	4.3	83	84	-1.9	53-116	30
Acenaphthene	73	80	-9.7	84	82	2.6	84	82	2.6	81	79	2.1	46-109	30
2,4-Dinitrophenol	35	70	-68 *	68	52	27.1	44	29	41 *	53	50	5.5	11-96	30
Dibenzofuran	95	107	-12.4	91	87	4.1	88	86	1.9	85	84	1.0	54-111	30
4-Nitrophenol	27	43	-45 *	39	38	3.1	22	16	32 *	29	29	0.7	5-54	30
2,4-Dinitrotoluene	94	105	-10.9	90	93	-2.5	91	90	0.5	86	87	-0.2	58-119	30
Fluorene	85	94	-10.6	86	83	3.3	86	84	1.6	80	80	0.3	52-113	30
Diethyl phthalate	101	115	-12.9	89	89	-0.2	88	87	1.6	86	85	1.5	56-118	30
4-Chlorophenyl phenyl ether	88	100	-12.5	86	83	2.8	86	83	3.3	83	82	1.8	50-113	30
4-Nitroaniline	85	95	-10.1	99	99	-0.7	92	85	8.4	82	80	2.5	50-131	30
2-Methyl-4,6-dinitrophenol	65	94	-36 *	80	76	5.0	54	40	29.8	75	71	5.3	37-109	30
n-Nitrosodiphenylamine	96	109	-12.5	96	90	5.6	93	91	2.5	91	89	2.5	55-113	30
4-Bromophenyl phenyl ether	78	88	-12.7	85	83	2.0	83	85	-2.8	90	86	4.9	66-106	30
Hexachlorobenzene	85	94	-10.7	86	83	3.0	83	81	1.9	89	82	7.5	67-110	30
Pentachlorophenol	81	92	-13.1	91	86	6.2	67	59	11.5	91	82	10.1	53-117	30
Phenanthrene	78	88	-11.6	88	85	4.0	88	85	4.1	90	84	6.9	60-120	30
Anthracene	67	76	-12.5	80	77	3.8	79	79	-0.5	82	79	3.8	60-122	30
Carbazole	92	104	-11.8	103	99	4.8	95	91	5.0	98	92	6.4	72-116	30
Di-n-butyl phthalate	91	103	-12.1	95	94	1.4	94	94	0.1	95	94	0.9	65-117	30
Fluoranthene	86	95	-10.1	89	85	5.4	86	84	2.8	87	84	2.8	64-116	30
Pyrene	88	98	-10.2	91	87	4.3	88	82	6.0	87	85	2.8	63-113	30
Butyl Benzyl phthalate	80	92	-13.8	92	88	4.5	97	98	-1.1	99	97	1.5	64-119	30
Benzo(a)anthracene	82	94	-13.9	89	84	5.2	88	87	0.9	89	86	2.7	66-116	30
3,3'-Dichlorobenzidine	92	96	-4.0	115	110	4.8	113	107	5.4	113	106	7.0	70-144	30
Chrysene	84	96	-13.3	90	85	5.0	91	88	2.5	89	87	2.7	65-117	30
bis(2-ethylhexyl) phthalate	88	103	-15.2	93	88	5.3	95	98	-3.7	95	104	-9.0	61-124	30
Di-n-octyl phthalate	81	94	-15.0	94	93	0.6	97	99	-2.4	102	97	5.4	58-117	30
Benzo(b)fluoranthene	78	89	-13.5	89	79	11.8	80	81	-1.8	87	81	6.9	57-108	30
Benzo(k)fluoranthene	83	95	-13.5	90	97	-7.9	101	101	0.1	99	94	5.8	60-121	30
Benzo(a)pyrene	81	92	-13.2	88	84	4.1	86	87	-1.0	88	84	4.3	59-112	30
Indeno(1,2,3-cd)pyrene	102	116	-13.2	92	80	13.4	88	84	5.2	86	88	-2.1	43-125	30
Dibenzo(a,h)anthracene	107	121	-12.0	92	84	8.6	89	87	3.0	89	89	-0.2	46-124	30
Benzo(g,h,i)perylene	97	112	-14.6	93	81	13.8	88	85	3.5	87	89	-1.6	53-115	30

* See Narrative, MI = Matrix Interference

Samples Collected and Analyzed By: FISHBECK, THOMPSON, CARR, and HUBER
Additional QA/QC Filed on Site

TABLE 10
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES - SEMIVOLATILES

Date Sampled:
Date Extracted:

	Recovery % MS W-17d-0914	Recovery % MSD W-17d-0914	RPD %	Limits % MS/MSD Recovery %	Limits % MS/MSD RPD%
Aniline	70	79	-13.2	37-110	30
Phenol	33	40	-21.0	15-49	30
bis(2-Chloroethyl)ether	67	76	-12.5	48-92	30
2-Chlorophenol	67	77	-13.2	45-98	30
Tetramethylurea	58	67	-13.8	30-97	30
1,3-Dichlorobenzene	65	74	-13.7	47-88	30
1,4-Dichlorobenzene	62	76	-20.0	47-90	30
1,2-Dichlorobenzene	68	88	-25.9	45-94	30
Benzyl Alcohol	65	74	-12.8	43-86	30
1,1-Dichloro-2,2-diethoxy	72	79	-8.6	39-111	30
2-Methylphenol	MI	MI	MI	34-99	30
bis(2-Chloroisopropyl)ether	73	81	-9.9	48-91	30
n-Methylbenzeneamine	85	105	-22	45-116	30
Hexachloroethane	60	70	-15.8	46-87	30
4-Methylphenol	61	70	-13.4	43-83	30
n-Nitroso-di-n-propylamine	74	82	-10.3	52-98	30
Nitrobenzene	MI	MI	MI	44-134	30
n,n-Dimethylbenzeneamine	MI	MI	MI	42-116	30
Isophorone	75	82	-8.4	54-102	30
n-Ethylbenzeneamine	65	89	-31 *	49-116	30
2-Nitrophenol	71	83	-14.8	50-109	30
2,4-Dimethylphenol	74	83	-10.7	47-95	30
Camphor	68	81	-17.0	42-120	30
2-Ethylbenzeneamine	73	82	-10.7	45-114	30
bis(2-Chloroethoxy)methane	73	80	-9.4	51-98	30
2,4-Dichlorophenol	75	85	-12.6	51-109	30
1,2,4-Trichlorobenzene	71	81	-13.1	50-96	30
Naphthalene	69	77	-12.1	46-103	30
4-Chloroaniline	76	85	-10.4	54-100	30
Hexachlorobutadiene	65	75	-14.2	48-94	30
4-Chloro-3-methylphenol	78	88	-12.2	59-114	30
2-Methylnaphthalene	74	82	-10.7	54-100	30
Hexachlorocyclopentadiene	32	34	-5.3	21-66	30
2,4,6-Trichlorophenol	63	70	-11.4	47-117	30
2,4,5-Trichlorophenol	67	75	-11.3	51-116	30
2-Chloronaphthalene	60	66	-9.9	42-106	30
2-Nitroaniline	73	77	-6.3	58-106	30
Dimethyl phthalate	63	72	-13.3	52-114	30

Samples Collected and Analyzed By: [redacted]ECK, THOMPSON, CARR, and HUBER.
Additional [redacted]C Filed on Site

TABLE 10
OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN
SEPTEMBER, 2014
QC-MATRIX SPIKES, MATRIX SPIKE DUPLICATES - SEMIVOLATILES

Date Sampled:
Date Extracted:

	Recovery % MS W-17d-0914	Recovery % MSD W-17d-0914	RPD %	Limits % MS/MSD Recovery %	Limits % MS/MSD RPD%
Acenaphthylene	62	69	-11.0	47-113	30
2,6-Dinitrotoluene	68	77	-11.6	54-116	30
3-Nitroaniline	69	76	-9.6	53-116	30
Acenaphthene	62	68	-8.4	46-109	30
2,4-Dinitrophenol	47	57	-18.8	11-96	30
Dibenzofuran	65	74	-12.1	54-111	30
4-Nitrophenol	23	28	-21.3	5-54	30
2,4-Dinitrotoluene	68	77	-11.7	58-119	30
Fluorene	64	71	-10.2	52-113	30
Diethyl phthalate	68	73	-6.7	56-118	30
4-Chlorophenyl phenyl ether	63	71	-10.7	50-113	30
4-Nitroaniline	72	78	-8.6	50-131	30
2-Methyl-4,6-dinitrophenol	55	65	-17.1	37-109	30
n-Nitrosodiphenylamine	68	76	-12.2	55-113	30
4-Bromophenyl phenyl ether	76	84	-10.2	66-106	30
Hexachlorobenzene	75	84	-10.8	67-110	30
Pentachlorophenol	73	81	-11.0	53-117	30
Phenanthrene	79	89	-11.0	60-120	30
Anthracene	79	85	-8.4	60-122	30
Carbazole	86	96	-9.9	72-116	30
Di-n-butyl phthalate	85	95	-10.5	65-117	30
Fluoranthene	79	85	-6.8	64-116	30
Pyrene	80	84	-5.2	63-113	30
Butyl Benzyl phthalate	89	97	-9.2	64-119	30
Benzo(a)anthracene	81	91	-12.1	66-116	30
3,3'-Dichlorobenzidine	104	116	-10.2	70-144	30
Chrysene	81	92	-13.5	65-117	30
bis(2-ethylhexyl) phthalate	88	104	-17.0	61-124	30
Di-n-octyl phthalate	93	101	-8.3	58-117	30
Benzo(b)fluoranthene	71	86	-19.0	57-108	30
Benzo(k)fluoranthene	89	86	3.1	60-121	30
Benzo(a)pyrene	82	89	-8.5	59-112	30
Indeno(1,2,3-cd)pyrene	79	89	-12.1	43-125	30
Dibenzo(a,h)anthracene	81	90	-10.2	46-124	30
Benzo(g,h,i)perylene	80	89	-11.0	53-115	30

* See Narrative, MI = Matrix Interference

Samples Collected and Analyzed By: FISHBECK, THOMPSON, CARR, and HUBER
Additional QA/QC Filed on Site

TABLE 11

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES - SEMIVOLATILES

Date Extracted:	09/23/14 Recovery % LCS LS092301	09/23/14 Recovery % LCD LD092301	RPD %	09/24/14 Recovery % LCS LS092401	09/24/14 Recovery % LCD LD092401	RPD %	09/29/14 Recovery % LCS LS092901	09/29/14 Recovery % LCD LD092901	RPD %	Control Limits % LCS/LCD Recovery %	Control Limits % LCS/LCD RPD%
Aniline	68	60	13.6	61	64	-4.0	65	79	-20.3	43-83	30
Phenol	34	32	5.4	30	28	9.1	29	32	-11.4	24-38	30
bis(2-Chloroethyl)ether	71	73	-2.3	71	67	6.5	60	70	-15.4	52-87	30
2-Chlorophenol	67	69	-1.9	68	63	7.9	60	67	-11.9	56-82	30
Tetramethylurea	64	60	5.1	57	60	-4.6	66	68	-3.6	46-76	30
1,3-Dichlorobenzene	62	63	-0.5	68	63	7.4	57	66	-14.7	51-81	30
1,4-Dichlorobenzene	62	63	-1.9	67	62	8.9	55	64	-15.1	53-81	30
1,2-Dichlorobenzene	65	65	-1.0	69	64	7.0	58	67	-15.5	54-82	30
Benzyl Alcohol	67	66	1.1	64	62	3.7	60	65	-8.8	53-81	30
1,1-Dichloro-2,2-diethoxy	69	70	-1.3	68	67	1.8	72	81	-12.7	51-89	30
2-Methylphenol	66	65	1.1	64	60	6.3	60	64	-7.7	54-77	30
bis(2-Chloroisopropyl)ether	73	74	-2.1	69	67	3.0	59	73	-20.5	50-88	30
n-Methylbenzeneamine	73	71	3.3	74	72	2.3	76	86	-12.1	57-87	30
Hexachloroethane	62	62	0.2	67	61	8.4	56	65	-15.8	48-81	30
4-Methylphenol	62	61	2.3	60	57	4.7	57	61	-7.6	50-72	30
n-Nitroso-di-n-propylamine	75	74	1.8	73	73	0.3	69	75	-8.4	56-92	30
Nitrobenzene	78	78	-0.4	76	75	1.6	73	82	-11.2	61-109	30
n,n-Dimethylbenzeneamine	68	68	0.7	71	72	-0.8	71	82	-13.8	57-84	30
Isophorone	80	75	6.0	76	76	0.1	74	79	-6.3	61-96	30
n-Ethylbenzeneamine	74	69	7.0	74	76	-2.1	75	83	-10.4	57-89	30
2-Nitrophenol	75	73	2.2	74	73	0.8	66	71	-8.5	62-90	30
2,4-Dimethylphenol	64	61	4.5	64	64	-0.5	60	68	-11.8	52-82	30
Camphor	74	70	4.6	75	75	-0.1	77	85	-9.9	59-89	30
2-Ethylbenzeneamine	75	71	5.3	75	75	-0.1	79	86	-7.9	58-91	30
bis(2-Chloroethoxy)methane	77	74	4.3	74	76	-2.2	69	73	-6.7	57-91	30
2,4-Dichlorophenol	75	71	5.4	76	74	2.1	69	74	-7.2	62-92	30
1,2,4-Trichlorobenzene	72	69	4.3	77	74	4.9	64	73	-13.0	59-87	30
Naphthalene	71	68	3.9	74	71	3.5	63	72	-13.0	52-99	30
4-Chloroaniline	77	71	7.7	74	73	1.1	67	72	-7.4	62-93	30
Hexachlorobutadiene	70	66	4.9	74	71	4.0	61	72	-16.1	56-86	30
4-Chloro-3-methylphenol	82	77	6.1	77	78	-1.2	78	82	-4.5	69-108	30
2-Methylnaphthalene	78	72	7.8	79	78	1.6	72	77	-6.8	62-96	30
Hexachlorocyclopentadiene	48	50	-4.8	59	57	2.6	54	52	3.5	31-67	30
2,4,6-Trichlorophenol	82	79	3.6	86	87	-0.6	80	76	5.2	68-100	30
2,4,5-Trichlorophenol	86	86	0.4	86	87	-0.4	79	82	-3.6	72-99	30
2-Chloronaphthalene	77	75	3.3	81	80	1.0	72	75	-4.5	62-95	30
2-Nitroaniline	87	89	-1.9	77	78	-0.7	84	85	-1.3	70-106	30
Dimethyl phthalate	87	92	-5.5	90	89	0.8	88	91	-3.6	72-104	30
Acenaphthylene	79	75	5.8	82	82	-0.8	75	78	-4.2	61-111	30

Samples Collected and Analyzed By: FISHBECK, THOMPSON, CARR, and HUBER

Additional Q[illegible] Filed on Site

TABLE 11

OTT/STORY/CORDOVA SUPERF[illegible]SITE NORTH MUSKEGON, MICHIGAN

SEP[illegible]BER, 2014

QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES - SEMIVOLATILES

Date Extracted:	09/23/14 Recovery % LCS LS092301	09/23/14 Recovery % LCD LD092301	RPD %	09/24/14 Recovery % LCS LS092401	09/24/14 Recovery % LCD LD092401	RPD %	09/29/14 Recovery % LCS LS092901	09/29/14 Recovery % LCD LD092901	RPD %	Control Limits % LCS/LCD Recovery %	Control Limits % LCS/LCD RPD%
2,6-Dinitrotoluene	94	97	-3.5	89	93	-4.4	93	98	-4.5	77-104	30
3-Nitroaniline	86	89	-2.8	84	83	0.3	88	92	-4.5	74-107	30
Acenaphthene	80	76	5.5	81	82	-1.9	75	79	-5.0	64-100	30
2,4-Dinitrophenol	76	93	-20.6	71	71	-0.1	86	66	26.8	35-122	30
Dibenzofuran	90	86	3.7	89	90	-0.7	87	91	-4.6	68-110	30
4-Nitrophenol	42	42	-0.8	38	35	8.8	42	29	38 *	22-50	30
2,4-Dinitrotoluene	93	96	-3.5	91	92	-1.8	96	99	-3.9	80-109	30
Fluorene	84	83	1.9	85	89	-4.7	82	86	-4.7	67-108	30
Diethyl phthalate	93	96	-2.6	91	94	-2.3	95	102	-7.1	73-112	30
4-Chlorophenyl phenyl ether	84	85	-0.8	87	91	-3.6	83	86	-3.0	68-106	30
4-Nitroaniline	102	94	8.8	91	86	5.6	96	99	-3.7	66-125	30
2-Methyl-4,6-dinitrophenol	88	97	-9.5	87	85	2.8	89	71	22.8	51-120	30
n-Nitrosodiphenylamine	95	98	-2.9	98	99	-1.2	92	97	-4.9	72-107	30
4-Bromophenyl phenyl ether	89	93	-3.9	90	96	-6.0	85	90	-6.1	74-103	30
Hexachlorobenzene	89	94	-6.4	94	95	-1.9	90	94	-4.1	78-105	30
Pentachlorophenol	86	95	-10.3	92	91	0.9	88	79	10.5	68-110	30
Phenanthrene	89	94	-5.5	88	88	-0.5	88	90	-2.5	68-120	30
Anthracene	76	79	-4.3	76	77	-1.7	76	79	-3.5	67-123	30
Carbazole	98	97	0.9	92	94	-2.6	93	101	-8.9	75-116	30
Di-n-butyl phthalate	90	94	-3.7	88	88	0.3	91	96	-4.9	71-116	30
Fluoranthene	88	91	-2.7	91	91	0.3	85	88	-2.7	67-119	30
Pyrene	92	92	0.5	95	91	3.8	88	90	-2.7	67-116	30
Butyl Benzyl phthalate	88	95	-7.0	81	84	-3.2	89	93	-4.5	65-113	30
Benzo(a)anthracene	85	94	-10.1	86	87	-0.9	86	89	-2.8	69-111	30
3,3'-Dichlorobenzidine	95	92	3.4	88	93	-5.0	95	103	-8.0	77-133	30
Chrysene	88	95	-7.9	88	89	-1.2	88	91	-4.3	71-110	30
bis(2-ethylhexyl) phthalate	88	98	-10.2	85	88	-2.9	88	95	-7.3	65-120	30
Di-n-octyl phthalate	87	94	-8.4	84	93	-10.2	86	88	-2.2	55-121	30
Benzo(b)fluoranthene	83	91	-9.4	79	88	-10.1	83	85	-2.6	62-107	30
Benzo(k)fluoranthene	90	97	-7.6	89	94	-5.6	91	90	0.9	67-117	30
Benzo(a)pyrene	83	89	-7.4	84	86	-2.5	84	88	-5.0	67-108	30
Indeno(1,2,3-cd)pyrene	82	97	-16.7	91	82	10.6	90	100	-11.3	64-113	30
Dibenzo(a,h)anthracene	85	98	-14.7	92	84	9.8	90	103	-13.8	67-110	30
Benzo(g,h,i)perylene	83	97	-16.1	92	82	11.3	89	103	-14.3	64-112	30

* See Narrative

Samples Collected and Analyzed By: FISHBECK, THOMPSON, CARR, and HUBER
Additional QA/QC Filed on Site

TABLE 11

OTT/STORY/CORDOVA SUPERFUND SITE NORTH MUSKEGON, MICHIGAN

SEPTEMBER, 2014

QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES - SEMIVOLATILES

Date Extracted:	10/01/14 Recovery % LCS LS100101	10/01/14 Recovery % LCD LD100101	RPD %	10/06/14 Recovery % LCS LS100601	10/06/14 Recovery % LCD LD100601	RPD %	10/07/14 Recovery % LCS LS100701	10/07/14 Recovery % LCD LD100701	RPD %	Control Limits % LCS/LCD Recovery %	Control Limits % LCS/LCD RPD%
Aniline	59	60	-1.2	74	65	13.3	71	77	-9.4	43-83	30
Phenol	26	27	-3.4	37	32	13.3	33	31	5.2	24-38	30
bis(2-Chloroethyl)ether	62	66	-7.5	77	72	6.0	72	79	-9.3	52-87	30
2-Chlorophenol	62	66	-6.3	76	73	6.9	72	64	12.6	56-82	30
Tetramethylurea	56	56	0.3	67	64	5.5	65	70	-7.5	46-76	30
1,3-Dichlorobenzene	65	68	-4.6	80	72	10.5	71	74	-5.5	51-81	30
1,4-Dichlorobenzene	65	66	-0.9	79	72	9.7	70	74	-6.1	53-81	30
1,2-Dichlorobenzene	66	68	-3.5	82	73	10.8	72	76	-5.3	54-82	30
Benzyl Alcohol	65	63	2.3	72	67	6.2	69	72	-3.6	53-81	30
1,1-Dichloro-2,2-diethoxy	67	68	-1.5	82	75	9.0	77	84	-8.0	51-89	30
2-Methylphenol	64	63	2.7	75	67	10.4	69	74	-6.6	54-77	30
bis(2-Chloroisopropyl)ether	64	68	-5.4	82	71	13.7	78	85	-8.8	50-88	30
n-Methylbenzeneamine	71	70	1.7	81	76	5.9	78	84	-7.5	57-87	30
Hexachloroethane	66	67	-1.6	80	71	12.3	67	69	-2.7	48-81	30
4-Methylphenol	61	67	-9.1	70	63	9.8	65	68	-4.2	50-72	30
n-Nitroso-di-n-propylamine	73	72	2.2	80	77	4.5	81	84	-2.9	56-92	30
Nitrobenzene	76	84	-9.6	92	86	7.5	72	77	-6.6	61-109	30
n,n-Dimethylbenzeneamine	64	66	-3.1	79	74	6.9	74	82	-10.6	57-84	30
Isophorone	87	80	8.8	90	86	3.6	87	88	-1.8	61-96	30
n-Ethylbenzeneamine	81	70	15.2	83	76	7.9	80	86	-6.6	57-89	30
2-Nitrophenol	76	72	5.2	81	78	3.1	81	65	21.6	62-90	30
2,4-Dimethylphenol	70	62	13.1	74	67	8.7	72	77	-6.6	52-82	30
Camphor	77	72	6.8	85	78	7.6	80	88	-8.7	59-89	30
2-Ethylbenzeneamine	82	71	13.7	82	77	6.5	81	86	-5.4	58-91	30
bis(2-Chloroethoxy)methane	73	71	2.8	80	76	5.2	81	85	-4.4	57-91	30
2,4-Dichlorophenol	79	75	5.9	84	79	6.8	81	69	15.3	62-92	30
1,2,4-Trichlorobenzene	79	73	7.3	86	80	7.0	77	83	-7.9	59-87	30
Naphthalene	74	67	9.4	79	73	6.9	76	81	-7.0	52-99	30
4-Chloroaniline	76	72	5.2	82	77	6.3	80	83	-4.3	62-93	30
Hexachlorobutadiene	78	70	10.5	85	76	10.9	72	77	-7.7	56-86	30
4-Chloro-3-methylphenol	90	76	16.2	90	84	7.4	90	85	4.8	69-108	30
2-Methylnaphthalene	82	78	5.4	90	85	5.3	83	86	-3.8	62-96	30
Hexachlorocyclopentadiene	58	49	16.4	54	53	0.7	42	46	-8.6	31-67	30
2,4,6-Trichlorophenol	90	79	13.4	88	86	2.8	88	60 *	37 *	68-100	30
2,4,5-Trichlorophenol	94	78	19.6	90	90	0.7	91	67	31 *	67-103	30
2-Chloronaphthalene	74	73	2.7	83	80	3.0	84	87	-4.2	62-95	30
2-Nitroaniline	85	81	4.7	94	91	3.8	92	86	6.3	70-106	30
Dimethyl phthalate	84	81	3.6	94	90	5.2	94	91	3.1	72-104	30
Acenaphthylene	84	74	13.7	84	81	3.0	85	87	-2.3	61-111	30

Samples Collected and Analyzed By: FISHBECK, THOMPSON, CARR, and HUBER

Additional QA [illegible]ed on Site

TABLE 11

OTT/STORY/CORDOVA SUPERFU[illegible]ITE NORTH MUSKEGON, MICHIGAN

SEPT[illegible]ER, 2014

QC-LABORATORY CONTROL SAMPLES, LABORATORY CONTROL SAMPLE DUPLICATES - SEMIVOLATILES

Date Extracted:	10/01/14 Recovery % LCS LS100101	10/01/14 Recovery % LCD LD100101	RPD %	10/06/14 Recovery % LCS LS100601	10/06/14 Recovery % LCD LD100601	RPD %	10/07/14 Recovery % LCS LS100701	10/07/14 Recovery % LCD LD100701	RPD %	Control Limits % LCS/LCD Recovery %	Control Limits % LCS/LCD RPD%
2,6-Dinitrotoluene	91	93	-3.1	105	100	4.4	97	94	2.9	73-109	30
3-Nitroaniline	88	86	2.8	94	93	0.5	94	93	1.0	74-107	30
Acenaphthene	76	76	0.9	85	81	4.8	85	87	-1.6	64-100	30
2,4-Dinitrophenol	86	83	3.3	63	90	- 35 *	89	52	51 *	35-122	30
Dibenzofuran	97	85	12.5	98	94	4.1	91	90	0.3	68-110	30
4-Nitrophenol	38	37	4.7	37	41	-10.2	40	23	53 *	22-50	30
2,4-Dinitrotoluene	93	94	-0.9	105	103	2.4	97	92	4.9	80-109	30
Fluorene	85	77	9.5	88	85	4.2	89	86	3.1	67-108	30
Diethyl phthalate	100	92	8.7	102	98	4.0	95	92	3.2	73-112	30
4-Chlorophenyl phenyl ether	89	80	11.3	91	86	5.9	89	86	3.1	68-106	30
4-Nitroaniline	92	88	4.7	89	91	-1.4	93	93	-0.7	66-125	30
2-Methyl-4,6-dinitrophenol	83	89	-7.4	83	98	-16.7	94	47	67 *	40-131	30
n-Nitrosodiphenylamine	94	87	7.8	98	94	4.1	95	93	2.2	72-107	30
4-Bromophenyl phenyl ether	75	84	-11.2	89	86	2.8	86	85	1.9	74-103	30
Hexachlorobenzene	80	91	-12.3	94	91	3.1	86	84	3.3	78-105	30
Pentachlorophenol	79	85	-7.3	87	89	-1.5	89	50 *	57 *	68-110	30
Phenanthrene	76	80	-5.2	89	87	1.6	90	84	6.5	68-120	30
Anthracene	66	71	-6.5	78	75	3.4	83	77	6.6	57-132	30
Carbazole	96	98	-1.8	103	100	2.3	97	96	0.8	75-116	30
Di-n-butyl phthalate	94	86	8.0	97	95	2.3	97	93	4.5	71-116	30
Fluoranthene	87	83	4.2	88	87	1.5	90	84	7.8	67-119	30
Pyrene	90	87	3.2	92	89	3.9	92	86	6.1	67-116	30
Butyl Benzyl phthalate	83	86	-3.9	98	92	6.0	101	91	9.7	65-113	30
Benzo(a)anthracene	83	84	-1.0	91	89	1.9	95	88	7.2	69-111	30
3,3'-Dichlorobenzidine	101	96	5.4	116	112	3.6	114	115	-0.7	77-133	30
Chrysene	82	84	-2.7	91	91	0.6	95	88	7.9	71-110	30
bis(2-ethylhexyl) phthalate	93	88	4.8	95	92	3.3	100	110	-8.8	65-120	30
Di-n-octyl phthalate	88	89	-0.6	96	94	2.3	111	99	11.6	55-121	30
Benzo(b)fluoranthene	78	81	-3.8	86	89	-3.4	91	84	7.3	62-107	30
Benzo(k)fluoranthene	87	95	-8.2	104	92	12.0	116	103	12.1	67-117	30
Benzo(a)pyrene	85	85	0.2	89	87	2.2	98	90	9.1	67-108	30
Indeno(1,2,3-cd)pyrene	102	88	14.6	96	93	3.0	100	92	7.8	64-113	30
Dibenzo(a,h)anthracene	109	89	21.0	95	93	2.0	100	96	4.5	67-110	30
Benzo(g,h,i)perylene	101	87	14.5	96	94	2.4	99	94	4.6	64-112	30

* See Narrative

Samples Collected and Analyzed By: FISHBECK, THOMPSON, CARR, and HUBER
Additional QA/QC Filed on Site

Sample Log-In Sheet

1 Sample ID						2		
Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/22/14	EW-1-0914	09/22/14	KJ	N101	01V1	09/23/14	JB	8:20am
					01V2			
					01V3			
					01VMS1	09/23/14	JB	
					01VMSD1			
					01VMS2			
					01VMSD2			
					01S1			
					01S2	09/23/14	CM	
					01SMS1			
					01SMSD1			
					01SMS2			
					01SMSD2			
	EW-2-0914				02V1	09/23/14	JB	8:35am
					02V2			
					02V3			
					02V4			
					02S1	09/23/14	CMS	
					02S2			
	EW-3-0914				03V1	09/23/14	JB	8:50am
					03V2			
					03V3			
					03V4			
					03S1	09/23/14	CMS	
					03S2			
	EW-4-0914				04V1	09/23/14	JB	9:10am
					04V2			
					04V3			
					04V4			
					04S1	09/23/14	CMJ	
					04S2			
	EW-5-0914				05V1	09/23/14	JB	9:25am
					05V2			
					05V3			
					05V4			
					05S1	09/23/14	CMJ	
					05S2			

[1] Batch is equivilent to a group of samples collected in one day. Batch ID is defined as Year(A....) Month(A...)Batch #(01...)

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/22/14	EW-6-0914	09/22/14	xxx	NS01	06V1	09/23/14	JB	9:40am
					06V2	↓	↓	
					06V3			
					06V4			
					06S1	09/23/14	CMJ	
	↓				06S2			
	EW-7-0914				07V1	09/24/14	JB	10:05am
					07V2			
					07V3			
					07VMS1	09/24/14	JB	
					07VMSD1	↓	↓	
					07VMS2			
					07VMSD2			
					07S1	09/23/14	CMJ	
	↓				07S2			
	EW-8-0914				08V1	09/23/14	JB	10:40am
					08V2	↓	↓	
					08V3			
					08V4			
					08S1	09/23/14	CMJ	
	↓				08S2			
	EW-9-0914				09V1	09/23/14	JB	10:55am
					09V2			
					09V3			
					09V4			
					09S1	09/23/14	CMJ	
	↓				09S2			
	EW-10-0914				10V1	09/23/14	JB	11:00am
					10V2	↓	↓	
					10V3			
					10V4			
					10S1	09/23/14	CMJ	
	↓				10S2			
	EW-11-0914				11V1	09/23/14	JB	11:30am
					11V2	↓	↓	
					11V3			
↓	↓	↓	↓	↓	11V4			

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Sample Log-In Sheet

1 Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	2 Transfer Date	Initials	
09/22/14	EW-11-0914	09/22/14	KH	NI01	1151	09/23/14	CMS	11:30am
	↓				1152			
	MW-33s-0914				12V1	09/24/14	JB	12:15pm
					12V2			
					12V3			
					1251			
	↓				1252			
	MW-33i-0914				13V1	09/24/14	JB	12:55pm
					13V2			
					13V3			
					13VMS1			
					13VMSD1			
					13VMS2			
					13VMSD2			
					1351	09/23/14	CMS	
	↓				1352			
	MW-33d-0914				14V1	09/24/14	JB	1:40pm
					14V2			
					14V3			
					1451	09/23/14	CMS	
	↓				1452			
	MW-34s-0914				15V1	09/24/14	JB	2:25pm
					15V2			
					15V3			
					1551	09/23/14	CMS	
	↓				1552			
	Dup-1-0914				16V1	09/23/14	JB	9:40am
					16V2	↓	↓	
					16V3			
					16V4			
					1651	09/23/14	CMS	
	↓				1652			
	Dup-2-0914				17V1	09/23/14	JB	10:56am
					17V2			
					17V3			
					17V4			
↓	↓	↓	↓	↓	1751	09/23/14	CMS	

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/22/14	Dup-2-0914	09/22/14	KAJ	NI01	17S2			10:55am
	Trip blank 09/22/14				18V1	09/23/14	JB	
					18V2			
09/23/14	MW-34i-0914	09/23/14	KAJ	NI02	01V1	09/24/14	JB	8:45am
					01V2			
					01V3			
					01S1	09/23/14	CMJ	
					01S2			
	MW-34d-0914				02V1	09/24/14	JB	9:25am
					02V2			
					02V3			
					02S1	09/23/14	CMJ	
					02S2	09/24		
	MW-38s-0914				03V1	09/24/14	JB	10:25am
					03V2			
					03V3			
					03S1	09/24/14	CMJ	
					03S2			
	MW-38d-0914				04V1	09/24/14	JB	11:10am
					04V2			
					04V3			
					04S1	09/24/14	CMJ	
					04S2			
	K-2s-0914				05V1	09/24/14	JB	12:30pm
					05V2			
					05V3			
					05S1	09/24/14	CMJ	
					05S2			
	K-32s-0914				06V1	09/24/14	JB	1:20pm
					06V2			
					06V3			
					06S1	09/24/14	CMJ	
					06S2			
	K-13d-0914				07V1	09/24/14	JB	2:20pm
					07V2			
					07V3			
					07S1	09/24/14	CMJ	

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/23/14	K-13d-0914	09/23/14	KAJ	NI02	0752			2:20pm
	Dup-3-0914				0BV1	09/24/14	JB	9:25am
					0BV2			
					0BV3			
					0BS1	09/25/14	CMJ	
					0BS2			
	Dup-4-0914				09V1	09/24/14	JB	1:20pm
					09V2			
					09V3			
					09S1	09/24/14	CMJ	
					09S2			
	Trip blank 09/23/14				10V1	09/24/14	JB	
					10V2			
09/24/14	W-123s-0914	09/24/14	KAJ	NI03	01V1	09/24/14	JB	8:45am
					01V2			
					01V3			
					01S1	09/24/14	CMJ	
					01S2			
	W-123d-0914				02V1	09/24/14	JB	10:05am
					02V2			
					02V3			
					02VMS1	09/25/14	JB	
					02VMSD1			
					02VMS2			
					02VMSD2			
					02S1	09/24/14	CMJ	
					02S2			
	OW-3-0914				03V1	09/24/14	JB	10:45am
					03V2	09/25/14	JB	
					03V3			
					03S1	09/24/14	CMJ	
					03S2			
	MW-16s-0914				04V1	09/25/14	JB	11:30am
					04V2			
					04V3			
					04V4			
					04S1	09/24/14	CMJ	

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/24/14	MW-16s-0914	09/24/14	KJ	NI03	04S2			11:30am
	MW-16d-0914				05V1	09/25/14	JB	12:10pm
					05V2			
					05V3			
					05V4			
					05S1	09/24/14	CMS	
					05S2			
	OW-16-0914				06V1	09/25/14	JB	12:50pm
					06V2			
					06V3			
					06VMS1			
					06VMSD1			
					06VMS2			
					06VMSD2			
					06S1	09/25/14	CMS	
					06S2			
					06SMS1	09/25/14	JB	
					06SMSD1	↓	↓	
					06SMS2			
					06SMSD2			
	K-12s-0914				07V1	09/25/14	JB	2:00pm
					07V2			
					07V3			
					07S1	09/24/14	CMS	
					07S2			
	K-31d-0914				08V1	09/25/14	JB	3:00pm
					08V2			
					08V3			
					08S1	09/25/14	JB	
					08S2			
	Trip blank 09/24/14				09V1	09/24/14	JB	
	↓				09V2			
09/25/14	K-5dp-0914	09/25/14	JB	NI04	01V1	09/25/14	JB	8:40am
					01V2			
					01V3			
					01S1	09/25/14	JB	
					01S2			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/25/14	K-4SR-0914	09/25/14	JB	NE04	02V1	09/25/14	JB	9:20am
					02V2			
					02V3			
					02S1	09/25/14	JB	
					02S2			
	K-24S-0914				03V1	09/29/14	JB	10:30am
					03V2			
					03V3			
					03S1	09/25/14	JB	BLOWE
					03S2	09/29/14	CMJ	
	K-25d-0914				04V1	09/29/14	JB	11:10am
					04V2			
					04V3			
					04S1	09/25/14	JB	
					04S2			
	MW-38i-0914				05V1	09/29/14	JB	12:40pm
					05V2			
					05V3			
					05S1	09/29/14	CMJ	
					05S2			
	K-3d-0914				06V1	09/29/14	JB	1:25pm
					06V2			
					06V3			
					06S1	09/29/14	CMJ	
					06S2			
	W-35d-0914				07V1	09/29/14	JB	2:10pm
					07V2			
					07V3			
					07S1	09/29/14	CMJ	
					07S2			
	Dup-5-0914				08V1	09/25/14	JB	9:20am
					08V2			
					08V3			
					08S1	09/29/14	CMJ	
					08S2			
	Trip blank 09/25/14				09V1	09/29/14	JB	
					09V2			

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Revision: 1
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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/26/14	W-23d-0914	09/26/14	MA	NI05	01V1	09/29/14	JB	8:35am
					01V2			
					01V3			
					01V4			
					01S1	09/29/14	CMJ	
					01S2			
	W-6d-0914				02V1	09/29/14	JB	9:30am
					02V2			
					02V3			
					02VMS1	09/29/14	JB	
					02VMSD1			
					02VMS2			
					02VMSD2			
					02S1	09/29/14	CMJ	
					02S2			
	W-13d-0914				03V1	09/29/14	JB	10:30am
					03V2			
					03V3			
					03S1	09/29/14	CMJ	
					03S2			
	W-5d-0914				04V1	09/29/14	JB	11:55am
					04V2			
					04V3			
					04S1	09/29/14	CMJ	
					04S2			
	W-15d-0914				05V1	09/29/14	JB	12:45pm
					05V2			
					05V3			
					05S1	09/29/14	CMJ	
					05S2			
	W-15S-0914				06V1	09/29/14	JB	1:15pm
					06V2			
					06V3			
					06S1	09/29/14	CMJ	
					06S2			
	W-16S-0914				07V1	09/29/14	JB	2:15pm
					07V2			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/26/14	W-1bs-0914	09/26/14	KH	NI05	07V3			2:15p
					0751	09/29/14	CMS	
					0752			
	W-1bd-0914				08V1	09/29/14	JB	2:50p
					08V2			
					08V3			
					0851	09/29/14	CMS	
					0852			
	Trip blank 09/26/14				09V1	09/29/14	JB	
					09V2			8:50a
09/29/14	W-104s-0914	09/29/14	KH	NI06	01V1	09/29/14	JB	8:50a
					01V2			
					01V3			
					0151	09/29/14	CMS	
					0152			
	W-104i-0914				02V1	09/29/14	JB	9:35a
					02V2			
					02V3			
					0251	09/29/14	CMS	
					0252			
	W-105s-0914				03V1	09/29/14	JB	10:20a
					03V2			
					03V3			
					0351	09/29/14	CMS	
					0352			
	W-105i-0914				04V1	09/29/14	JB	11:00a
					04V2			
					04V3			
					04VMS1	↓	↓	
					04VMSD1	10/01/14	JB	
					04VMS2	↓	↓	
					04VMSD2			
					0451	09/29/14	CMS	
					0452			
					04SMS1	09/29/14	CMS	
					04SMSD1	↓	↓	
					04SMS2			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/29/14	W-105i-0914	09/29/14	KSJ	NI06	04SMSD2			11:00am
	W-116s-0914				05V1	10/01/14	JB	12:50pm
					05V2			
					05V3			
					05S1	09/29/14	CMJ	
					05S2			
	W-116i-0914				06V1	10/01/14	JB	1:30pm
					06V2			
					06V3			
					06S1	09/29/14	CMJ	
					06S2			
	W-110s-0914				07V1	10/01/14	JB	2:20pm
					07V2			
					07V3			
					07S1			
					07S2			
	Dup-6-0914				08V1	09/29/14	JB	11:00am
					08V2			
					08V3			
					08S1	09/29/14	CMJ	
					08S2			
	Trip blank 09/29/14				09V1	10/01/14	JB	
					09V2			
09/30/14	W-110i-0914	09/30/14	KSJ	NI07	01V1	10/01/14	JB	8:45am effervescent
					01V2			
					01V3			
					01V4			
					01S1	10/01/14	KSJ	
					01S2			
	W-114s-0914				02V1	10/01/14	JB	9:25am
					02V2			
					02V3			
					02S1	10/01/14	KSJ	
					02S2			
	W-114i-0914				03V1	10/01/14	JB	10:05am effervescent
					03V2			
					03V3			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/30/14	W-114i-0914	09/30/14	KAJ	NI07	03V4			10:05am
					0351	10/01/14	KAJ	
					0352			
	W-117s-0914				04V1	10/01/14	JB	11:00am
					04V2			
					04V3			
					0451	10/01/14	KAJ	
					0452			
	W-117i-0914				05V1	10/01/14	JB	11:35am
					05V2	↓	↓	
					05V3			
					05V4			
					0551	10/01/14	KAJ	
					0552			
	W-120s-0914				06V1	10/01/14	JB	1:05pm
					06V2			
					06V3			
					0651	10/01/14	KAJ	
					0652			
	W-120i-0914				07V1	10/01/14	JB	1:45pm
					07V2			
					07V3			
					07VMS1	10/01/14	JB	
					07VMSD1	↓	↓	
					07VMS2			
					07VMSD2			
					0751			
					0752	10/01/14	KAJ	
					07SMS1	↓	↓	
					07SMSD1			
					07SMS2			
					07SMSD2			
	Dup-7-0914				08V1	10/01/14	JB	10:05am
					08V2	↓	↓	effervescence
					08V3			
					08V4			
↓	↓	↓	↓	↓	0851 ~~0852~~	10/01/14	KAJ	(one SV bottle broken)

[1] Batch is equivilent to a group of samples collected in one day. Batch ID is defined as Year(A....) Month(A...)Batch #(01...)

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
09/30/14	Trip blank 09/30/14	09/30/14	KAJ	NI07	09V1	10/01/14	JB	
↓	↓	↓	↓	↓	09V2			
10/01/14	W-122s-0914	10/01/14	KAJ	NI08	01V1	10/01/14	JB	8:35a
	↓				01V2			
					01V3			
					0151	10/01/14	KAJ	
					0152			
	W-122i-0914				02V1	10/02/14	JB	9:10a
	↓				02V2			
					02V3			
					02V4			
					0251	10/01/14	KAJ	
					0252			
	W-121s-0914				03V1	10/02/14	JB	10:00a
	↓				03V2			
					03V3			
					0351	10/01/14	KAJ	
					0352			
	W-121i-0914				04V1	10/02/14	JB	10:35a
	↓				04V2			
					04V3			
					0451	10/01/14	KAJ	
					0452			
	W-107s-0914				05V1	10/02/14	JB	11:40a
	↓				05V2			
					05V3			
					0551	10/01/14	KAJ	
					0552			
	W-107i-0914				06V1	10/02/14	JB	12:15p
	↓				06V2			
					06V3			
					06V4			
					0651	10/01/14	KAJ	
					0652			
	MW-12s-0914				07V1	10/02/14	JB	1:05p
	↓				07V2			
↓	↓	↓	↓	↓	07V3			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
10/01/14	MW-12s-0914	10/01/14	KAJ	NI0B	07VMS1	10/02/14	JTB	1:05pm
					07VMSD1			
					07VMS2			
					07VMSD2			
					07S1			
					07S2	10/01/14	KAJ	
					07SMS1			
					07SMSD1			
					07SMS2			
					07SMSD2			
	MW-12d-0914				08V1	10/02/14	JTB	1:55pm
					08V2			
					08V3			
					08S1	10/01/14	KAJ	
					08S2			
	OW-12-0914				09V1	10/02/14	JTB	2:20pm
					09V2			
					09V3			
					09V4			
					09S1	10/01/14	KAJ	
					09S2			
	Dup-8-0914				10V1	10/02/14	JTB	9:10am
					10V2			
					10V3			
					10V4			
					10S1	10/01/14	KAJ	
					10S2			
	Trip blank 10/01/14				11V1	10/02/14	JTB	
					11V2			
10/02/14	W-106s-0914	10/02/14	KAJ	NI09	01V1	10/02/14	JTB	8:10am
					01V2			
					01V3			
					01S1	10/06/14	CMS	
					01S2			
	W-106i-0914				02V1	10/02/14	JTB	9:20am
					02V2	10/03/14	JTB	
					02V3			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
10/02/14	W-106i-0914	10/02/14	KJ	NI09	02V4			9:20am
	↓	↓	↓	↓	02S1	10/06/14	CMS	
	MW-23d				02S2			
	↓				03V1	10/02/14	JB	10:10am
					03V2			
					03V3			
					03S1	10/06/14	CMS	
	↓				03S2			
	MW-23s				04V1	10/02/14	JB	10:50am
	↓				04V2			
					04V3			
					04S1	10/06/14	CMS	
	↓				04S2			
	OW-23-0914				05V1	10/02/14	JB	11:15am
	↓				05V2			
					05V3			
					05S1	10/06/14	CMS	
	↓				05S2			
	W-103s-0914				06V1	10/02/14	JB	12:55pm
	↓				06V2			
					06V3			
					06VMS1	10/03/14	JB	
					06VMSD1	↓	↓	
					06VMS2			
					06VMSD2			
					06S1			
					06S2	10/06/14	CMS	
					06SMS1	↓	↓	
					06SMSD1			
					06SMS2			
	↓				06SMSD2			
	W-103i-0914				07V1	10/02/14	JB	1:45pm
	↓				07V2	↓	↓	
					07V3			
					07V4			
					07S1	10/06/14	CMS	
↓	↓	↓	↓	↓	07S2			

[1] Batch is equivlient to a group of samples collected in one day. Batch ID is defined as Year(A....) Month(A...)Batch #(01...)

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Sample Log-In Sheet

1 | Sample ID | 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
10/02/14	W-124d-0914	10/02/14	KJ	NI09	08V1	10/03/14	JR	2:35pm
					08V2			
					08V3			
					08S1			
					08S2			
	Dup-9-0914				09V1	10/02/14	JB	11:15am
					09V2			
					09V3			
					09S1	10/06/14	CMS	
					09S2			
	Field Trip blank 10/02/14				10V1	10/02/14	JB	
					10V2			
10/03/14	OW-9d-0914	10/03/14	KJ	NI10	01V1	10/08/14	JB	8:45am
					01V2			
					01V3			
					01VMS1	10/03/14	JB	
					01VMSD1			
					01VMS2			
					01VMSD2			
					01S1			
					01S2	10/06/14	CMS	
					01SMS1			
					01SMSD1			
					01SMS2			
					01SMSD2			
	W-124s-0914				02V1	10/03/14	JB	9:55am
					02V2			
					02V3			
					02V4			
					02S1	10/06/14	CMS	
					02S2			
	W-102d-0914				03V1			10:55am
					03V2	10/09/14	JB	
					03V3			
					03S1	10/06/14	CMS	
					03S2			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
10/03/14	W-102i-0914	10/03/14	KJ	NI10	04V1	10/09/14	JB	11:35am
					04V2			
					04V3			
					04S1	10/06/14	CMJ	
					04S2			
	W-102s-0914				05V1	10/09/14	JB	12:10pm
					05V2			
					05V3			
					05S1	10/06/14	CMJ	
					05S2			
	Dup-10-0914				06V1	10/09/14	JB	12:10pm
					06V2			
					06V3			
					06S1	10/06/14	CMJ	
					06S2			
	Trip blank 10/03/14				07V1	10/09/14	JB	
					07V2			
10/06/14	OW-14-0914	10/06/14	KJ	NI11	01V1	10/09/14	JB	8:40am
					01V2			
					01V3			
					01V4			
					01S1	10/06/14	CMJ	
					01S2			
	TWA-0914				02V1	10/09/14	JB	9:25am
					02V2			
					02V3			
					02VMS1	10/09/14	JB	
					02VMSD1	↓	↓	
					02VMS2			
					02VMSD2			
					02S1			
					02S2	10/07/14	CMJ	
					02SMS1	↓	↓	
					02SMSD1			
					02SMS2			
					02SMSD2			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
10/06/14	W-26s-0914	10/06/14	KSJ	NI11	03V1	10/09/14	JTB	10:35am
					03V2			
					03V3			
					03S1	10/06/14	CMJ	
					03S2			
	W-26d-0914				04V1	10/09/14	JTB	11:10am
					04V2			
					04V3			
					04V4			
					04S1	10/06/14	CMJ	
					04S2			
	W-7s-0914				05V1	10/09/14	JTB	12:25pm
					05V2			
					05S1	10/06/14	CMJ	
	Dup-11-0914				06V1	10/09/14	JTB	12:25pm
					06S1	10/07/14	CMJ	
	Trip blank 10/06/14				07V1	10/09/14	JTB	
					07V2			
10/07/14	K-28d-0914	10/07/14	KSJ	NI12	01V1	10/09/14	JTB	8:40am
					01V2			
					01V3			
					01V4			
					01S1	10/07/14	CMJ	
					01S2			
	W-17s-0914				02V1	10/09/14	JTB	9:35am
					02V2	10/13/14	JTB	
					02V3	↓	↓	
					02S1	10/07/14	CMJ	
					02S2			
	UW-1-0914				03V1	10/09/14	JTB	10:40am
					03V2	↓	↓	
					03V3			
					03V4			
					03S1	10/07/14	CMJ	
					03S2			
	W-17d-0914				04V1	10/09/14	JTB	11:25am
					04V2	↓	↓	

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials	
10/07/14	W-17d-0914	10/07/14	KAJ	NI12	04V3			11:25am
					04VMS1			
					04VMSD1			
					04VMS2			
					04VMSD2			
					04S1			
					04S2	10/07/14	CMS	
					04SMS1	↓	↓	
					04SMSD1			
					04SMS2			
					04SMSD2			
	W-18s-0914				05V1	10/09/14	JRS	12:35pm
					05V2			
					05V3			
					05V4			
					05S1	10/07/14	CMS	
					05S2			
	W-101d-0914				06V1			1:15pm
					06V2			
					06V3			
					06V4			
					06S1	10/07/14	CMS	
					06S2			
	W-101i-0914				07V1			1:50pm
					07V2			
					07V3			
					07V4			
					07S1	10/07/14	CMS	
					07S2			
	W-101s-0914				08V1			2:25pm
					08V2			
					08V3			
					08V4			
					08S1	10/07/14		
↓	↓	↓	↓	↓	08S2			

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Sample Log-In Sheet

1 — Sample ID — 2

Sample Date	Sample Name	Log-In Date	Initials	Batch ID[1]	Sample #	Transfer Date	Initials
10/07/14	Dup-12-0914	10/07/14	KSJ	NI12	09V1			8:40a
					09V2		
					09V3		
					09V4		
					0951	10/07/14	CMJ
					0952		
	Trip blank 10/07/14				10V1		
					16V2		
10/14/14	MW-34i-0914	10/14/14	KSJ	NI13	0151		
					0152		

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September 2014, 4th Quarter Well Sampling Plan

	Sampling Sequence	Well Id	QC Samples	Type	Approx. Location	Remarks	Page
DAY 1	1	EW-1	MS/MSD	E	E of Central, N of River	Sample Port	1
22-Sep	2	EW-2		E	E of Central, N of River	Sample Port	2
Monday	3	EW-3		E	E of Central, N of River	Sample Port	3
1	4	EW-4		E	S of River Rd	Sample Port	4
	5	EW-5		E	S of River Rd	Sample Port	5
	6	EW-6a		E	S of River Rd	Sample Port	6
		Dup-1-0914	Sample EW-6a	E	E of Plant	Sample Port	6
	7	EW-7	MS/MSD Vol only	E	S of River Rd	Sample Port	7
	8	EW-8		E	NE of Plant	Sample Port	8
	9	EW-9		E	E of Plant	Sample Port	9
		Dup-2-0914	Sample EW-9	E	E of Plant	Sample Port	9
	10	EW-10		E	N of Plant	Sample Port	10
	11	EW-11		E	NE of Plant	Sample Port	11
	12	MW-33s		M	E of Russell, S of River	Peristaltic	12
	13	MW-33i	MS/MSD Vol only	M	E of Russell, S of River	Peristaltic	17
	14	MW-33d		M	E of Russell, S of River	Peristaltic	21
	15	MW-34s		M	W of Russell, S of River	Peristaltic	26
			Trip Blank				
DAY 2	16	MW-34i		M	W of Russell, S of River	Peristaltic	31
23-Sep	17	MW-34d		M	W of Russell, S of River	Peristaltic	35
Tuesday		Dup-3-0914	Sample MW-34d	M	W of Russell, S of River	Peristaltic	38
2	18	MW-38s		M	W of Russell, N of River	Peristaltic	40
	19	MW-38d		M	W of Russell, N of River	Peristaltic	45
	20	K-2s		M	W of Russell, S of River	Bladder Pump	49
	21	K-32s		M	Williamson Rd	Peristaltic	53
		Dup-4-0914	Sample K-32s	M	Williamson Rd	Peristaltic	53
	22	K-13d		M	Williamson Rd	Peristaltic	58
			Trip Blank				
DAY 3	23	W-123s		M	Williamson Rd	Peristaltic	63
24-Sep	24	W-123d	MS/MSD Vol only	M	Williamson Rd	Peristaltic	68
Wednesday	25	OW-3		M	Williamson Rd	Peristaltic	73
3	26	MW-16s		M	W of Russell, S of River	Peristaltic	78
	27	MW-16d		M	W of Russell, S of River	Peristaltic	82
	28	OW-16	MS/MSD	M	W of Russell, S of River	Bladder Pump	87
	29	K-12s	no recovery	M	Williamson Rd	Peristaltic	91
	30	K-31d		M	Williamson Rd	Bladder Pump	92
			Trip Blank				
DAY 4	31	K-5dR		M	Williamson Rd	Peristaltic	96
25-Sep	32	K-4sR		M	Williamson Rd	Bladder Pump	101
Thursday		Dup-5-0914	Sample K-4sR	M	Williamson Rd	Bladder Pump	101
4	33	K-24s		M	Russell Rd	Peristaltic	106
	34	K-25d		M	Russell Rd	Peristaltic	110

September 2014, 4th Quarter Well Sampling Plan

	Sampling Sequence	Well Id	QC Samples	Type	Approx. Location	Remarks	Page
	35	MW-38i		M	W of Russell, N of River	Bladder Pump	114
	36	K-3d	Slow Recovery	M	S of River Rd	Bladder Pump	118
	37	W-35d		M	SE of plant	Bladder Pump	122
			Trip Blank				
DAY 5	38	W-23d		M	S of plant	Bladder Pump	126
26-Sep	39	W-6d	MS/MSD Vol only	M	N of Cordova Man. Fac.	Bladder Pump	130
Friday	40	W-13d		M	W of Cordova Man. Fac.	Bladder Pump	134
5	41	W-5d		M	N of Cordova Man. Fac.	Peristaltic	139
	42	W-15d		M	Cordova Man. Fac.	Bladder Pump	143
	43	W-15s		M	Cordova Man. Fac.	Bladder Pump	147
	44	W-16s		M	NE of Cordova Man. Fac.	Bladder Pump	151
	45	W-16d		M	NE of Cordova Man. Fac.	Bladder Pump	155
			Trip Blank				
DAY 6	46	W-104s		M	E of Central, N of River	Peristaltic	159
29-Sep	47	W-104i		M	E of Central, N of River	Bladder Pump	164
Monday	48	W-105s		M	E of Central, N of River	Peristaltic	138
8	49	W-105i	MS/MSD	M	E of Central, N of River	Bladder Pump	172
		Dup-6-0914	Sample W-105i	M	E of Central, N of River	Bladder Pump	172
	50	W-116s		M	Russell/River	Peristaltic	176
	51	W-116i		M	Russell/River	Bladder Pump	180
	52	W-110s		M	S of River Rd	Peristaltic	185
			Trip Blank				
DAY 7	53	W-110i		M	S of River Rd	Bladder Pump	190
30-Sep	54	W-114s		M	S of River Rd	Peristaltic	194
Tuesday	55	W-114i		M	S of River Rd	Bladder Pump	198
9		Dup-7-0914	Sample W-114i	M	S of River Rd	Bladder Pump	198
	56	W-117s		M	S of River Rd	Bladder Pump	202
	57	W-117i		M	S of River Rd	Bladder Pump	207
	58	W-120s		M	S of River Rd	Peristaltic	212
	59	W-120i	MS/MSD	M	S of River Rd	Bladder Pump	217
			Trip Blank				
DAY 8	60	W-122s		M	S of River Rd	Peristaltic	222
1-Oct	61	W-122i		M	S of River Rd	Bladder Pump	227
Wednesday		Dup-8-0914	Sample W-122i	M	S of River Rd	Bladder Pump	227
10	62	W-121s		M	S of River Rd	Peristaltic	232
	63	W-121i		M	S of River Rd	Bladder Pump	236
	64	W-107s		M	E of Central, N of River	Bladder Pump	240
	65	W-107i		M	E of Central, N of River	Bladder Pump	244
	66	MW-12s	MS/MSD	M	E of Central, N of River	Bladder Pump	248
	67	MW-12d		M	E of Central, N of River	Bladder Pump	253
	68	OW-12		M	E of Central, N of River	Bladder Pump	257

September 2014, 4th Quarter Well Sampling Plan

	Sampling Sequence	Well Id	QC Samples Type		Approx. Location	Remarks	Page
			Trip Blank				
DAY 9	69	W-106s		M	E of Central, N of River	Peristaltic	261
2-Oct	70	W-106i		M	E of Central, N of River	Bladder Pump	266
Thursday	71	MW-23d		M	E of Central, N of River	Peristaltic	270
11	72	MW-23s		M	E of Central, N of River	Bladder Pump	275
	73	OW-23		M	E of Central, N of River	Bladder Pump	279
		Dup-9-0914	Sample OW-23	M	E of Central, N of River	Bladder Pump	279
	74	W-103s	MS/MSD	M	W of Plant	Bladder Pump	284
	75	W-103i		M	W of Plant	Bladder Pump	288
	76	W-124d		M	E of Plant	Bladder Pump	293
			Trip Blank				
DAY 10	77	OW-9d	MS/MSD	M	E of Plant	Bladder Pump	297
3-Oct	78	W-124s		M	E of Plant	Bladder Pump	301
Friday	79	W-102d		M	E of Plant	Bladder Pump	305
12	80	W-102i		M	E of Plant	Bladder Pump	309
	81	W-102s		M	E of Plant	Bladder Pump	314
		Dup-10-0914	Sample W-102s	M	E of Plant	Bladder Pump	314
			Trip Blank				
DAY 11	82	OW-14		M	Central Rd	Bladder Pump	319
6-Oct	83	TW-A	MS/MSD	M	Central Rd	Bladder Pump	323
Monday	84	W-26s		M	Central Rd	Bladder Pump	328
15	85	W-26d		M	Central Rd	Bladder Pump	333
	86	W-7s		M	Cordova Man. Fac.	Peristaltic	337
		Dup-11-0914	Sample K-28d	M	Cordova Man. Fac.	Peristaltic	337
	87	W-7d	Not Sampled	M	Cordova Man. Fac.	Peristaltic	341
			Trip Blank				
DAY 12	88	K-28d		M	Cordova Man. Fac.	Bladder Pump	342
7-Oct		Dup-12-0914	Sample K-28d	M	Cordova Man. Fac.	Bladder Pump	342
Tuesday	89	W-17s		M	NE of Plant	Bladder Pump	347
16	90	UW-1		M	NE of Plant	Bladder Pump	351
	91	W-17d	MS/MSD	M	NE of Plant	Bladder Pump	355
	92	W-18s		M	N of Plant	Bladder Pump	360
	93	W-101d		M	N of Plant	Bladder Pump	365
	94	W-101i		M	N of Plant	Bladder Pump	369
	95	W-101s		M	N of Plant	Bladder Pump	373
			Trip Blank				
DAY 13	96	MW-34i		M	W of Russell, S of River	Peristaltic	377
14-Oct							
Tuesday							
23							

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-1-0914
Volatile bottles preserved by: JB 09/18/14 0SET 2725
Sampled by: SJ

Date: 9.22.14
Time: 8:20 am
Weather: cool

Top of casing elevation: 635.82 ft
Depth to well bottom: 80.4 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 3,5 gallons
Depth to static water level after purging: NA
Did well recover? YES NO
Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:20			9.45	7.14	4.55	235	1.05	183.5
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 1

EW-1-0914.xls

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-2-0914
Volatile bottles preserved by: JB 09/18/14 0SET 2725
Sampled by: SJ

Date: 9.22-14
Time: 9:35am
Weather: cool

Top of casing elevation: 637.2 ft
Depth to well bottom: 80.8 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 3 gallons
Depth to static water level after purging: NA
Did well recover? YES NO
Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:35			7.27	7.16	7.89	258	3.42	-10.4
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 2

EW-2-0914.xls

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-3-0914
Volatile bottles preserved by: JB 09/18/14 OSCI 2725
Sampled by: T.P

Date: 9.22-14
Time: 8:50am
Weather: cool

Top of casing elevation: 634.44 ft
Depth to well bottom: 89 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 4 gallons

Depth to static water level after purging: NA
Did well recover? YES NO

Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:50			9.15	9.17	3.68	289	1.24	-53.1
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 3

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-4-0914
Volatile bottles preserved by: JB 09/18/14 OSCI 2725
Sampled by: T.P

Date: 9.22-14
Time: 9:10am
Weather: Cool/Sunny

Top of casing elevation: 632.34 ft
Depth to well bottom: 91.55 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 4 gallons

Depth to static water level after purging: NA
Did well recover? YES NO

Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:10			9.69	6.96	3.43	518	4.07	-69.6
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 4

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-5-0914
Volatile bottles preserved by: JR 09/18/14 ascI 2725
Sampled by: SP

Date: 9.22.14
Time: 9:25am
Weather: cool/sunny

Top of casing elevation: 634.9 ft
Depth to well bottom: 89.6 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 9.25 gallons

Depth to static water level after purging: NA
Did well recover? YES NO

Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:25			10.10	7.22	3.73	680	1.34	-22.3
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
Other observations: N/D
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature: 5

EW-5-0914.xls

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-6-0914
Volatile bottles preserved by: JR 09/18/14 ascI 2725
Sampled by: SP

Date: 9.22.14
Time: 9:40 am
Weather: cool/sunny

Top of casing elevation: 641.23 ft
Depth to well bottom: 85.5 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 3.75 gallons

Depth to static water level after purging: NA
Did well recover? YES NO

Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:40			10.16	7.36	5.74	979	.92	5.7
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature: 6

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-7-0914
Volatile bottles preserved by: JB 09/15/14 05CI 2725
Sampled by: SP

Date: 9.22.14
Time: 10:05 am
Weather: cool / sunny

Top of casing elevation: 637.8 ft
Depth to well bottom: 82.83 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 4 gallons
Depth to static water level after purging: NA
Did well recover? YES NO
Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:05			10.64	7.41	3.74	310	1.53	4.3
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 7

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-8-0914
Volatile bottles preserved by: JB 09/15/14 05CI 2725
Sampled by: SP

Date: 9.22.14
Time: 10:40 am
Weather: cool / sunny

Top of casing elevation: 642.62 ft
Depth to well bottom: 72.7 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 3 gallons
Depth to static water level after purging: NA
Did well recover? YES NO
Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:40			12.33	7.52	2.52	335	126	-117.9
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: (YES) NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 8

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-9-0914
Volatile bottles preserved by: JB 09/18/14 0SCT 2725
Sampled by: GP

Date: 9.22-14
Time: 10:55 am
Weather: cool/sunny

Top of casing elevation: 642.62 ft
Depth to well bottom: 148.2 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 4.25 gallons
Depth to static water level after purging: NA
Did well recover? YES NO
Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:55			17.38	8.01	2.49	371	.64	-109.0
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 9

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-10-0914
Volatile bottles preserved by: JB 09/18/14 0SCT 2725
Sampled by: GP

Date: 9.22-14
Time: 11:10 am
Weather: cool/sunny

Top of casing elevation: 649.98 ft
Depth to well bottom: 75 ft
Depth to static water level: NA ft
Height of water column, H: NA ft
Diameter of well casing, D: 8 inches
(approx. diameter)
Volume of water column: NA gallons
Volume of water evacuated: 3.5 gallons
Depth to static water level after purging: NA
Did well recover? YES NO
Method of evacuation: Sample Port
Purge Flow Rate: NA gpm
Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:10			17.04	7.36	1.79	364	.65	-108.6
2									
3									
4									
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 10

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: EW-11-0914
Volatile bottles preserved by: JB 09/15/14 0SCI 2725
Sampled by: SP

Date: 9.22.14
Time: 11:50 am
Weather: Cool/Sunny

Top of casing elevation: 646.88 ft Depth to well bottom: 75 ft

Depth to static water level: NA ft Height of water column, H: NA ft

Diameter of well casing, D: 8 inches
(approx. diameter)

Volume of water column: NA gallons

Volume of water evacuated: 3 gallons

Depth to static water level after purging: NA
Did well recover? YES NO

Method of evacuation: Sample Port Purge Flow Rate: NA gpm

Method of sampling: Sample Port

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:30			10.86	7.83	2.20	301	1.47	-120.9
2									
3									
4									
5									
6									
7									
8									

Sample color: low
Sample turbidity: Clear
Sample odor: YES NO PID reading:
Other observations: N/A Comments:

Additional comments on methodology, etc.:

Signature: 11

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-33s-0914
Volatile bottles preserved by: JB 09/15/14 0SCI 2725
Sampled by: SP

Date: 9.22.14
Time: 12:15 pm
Weather: Cool/Sunny

Top of casing elevation: 628.8 ft Depth to well bottom: 38.8 ft

Depth to static water level: 17.50 ft Height of water column, H: 21.3 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 3.26 gallons

Volume of water evacuated: 2.75 (.84 w) gallons

Depth to static water level after purging: 19.13
Did well recover? YES NO

Method of evacuation: Peristaltic Purge Flow Rate: 400 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:50		20.47	10.75	8.10	1.64	190	9.05	27.6
2	12:05		20.73	10.86	7.69	1.52	223	2.59	29.5
3	12:08		20.74	10.84	7.71	1.52	224	2.89	32.5
4	12:11		20.70	10.82	7.70	1.51	225	2.95	36.1
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: N/A Comments:

Additional comments on methodology, etc.:

Signature: 12

MW-33S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/22/14 11:47:47	10.80	189.3	1.77	8.28	21
2	09/22/14 11:48:07	10.77	190.0	1.70	8.21	23
3	09/22/14 11:48:27	10.77	190.8	1.69	8.18	25
4	09/22/14 11:48:47	10.76	191.7	1.66	8.12	27
5	09/22/14 11:49:07	10.75	190.7	1.65	8.07	28
6	09/22/14 11:49:27	10.75	192.7	1.62	8.03	29
7	09/22/14 11:49:47	10.74	194.6	1.61	8.01	29
8	09/22/14 11:50:07	10.74	196.8	1.59	7.98	29
9	09/22/14 11:50:27	10.73	197.5	1.57	7.96	30
10	09/22/14 11:50:47	10.73	198.0	1.58	7.93	30
11	09/22/14 11:51:07	10.73	198.1	1.57	7.93	30
12	09/22/14 11:51:27	10.72	198.0	1.57	7.93	30
13	09/22/14 11:51:47	10.72	200.2	1.55	7.92	30
14	09/22/14 11:52:07	10.72	200.8	1.57	7.92	30
15	09/22/14 11:52:27	10.71	201.6	1.56	7.89	30
16	09/22/14 11:52:47	10.72	203.2	1.55	7.88	30
17	09/22/14 11:53:07	10.71	203.5	1.56	7.86	30
18	09/22/14 11:53:27	10.70	203.7	1.57	7.86	30
19	09/22/14 11:53:47	10.70	204.6	1.57	7.87	30
20	09/22/14 11:54:07	10.71	204.6	1.56	7.86	30
21	09/22/14 11:54:27	10.71	207.9	1.55	7.83	30
22	09/22/14 11:54:47	10.72	207.3	1.53	7.81	30
23	09/22/14 11:55:07	10.73	209.2	1.52	7.83	30
24	09/22/14 11:55:27	10.73	210.7	1.48	7.80	30
25	09/22/14 11:55:47	10.73	211.5	1.46	7.78	30

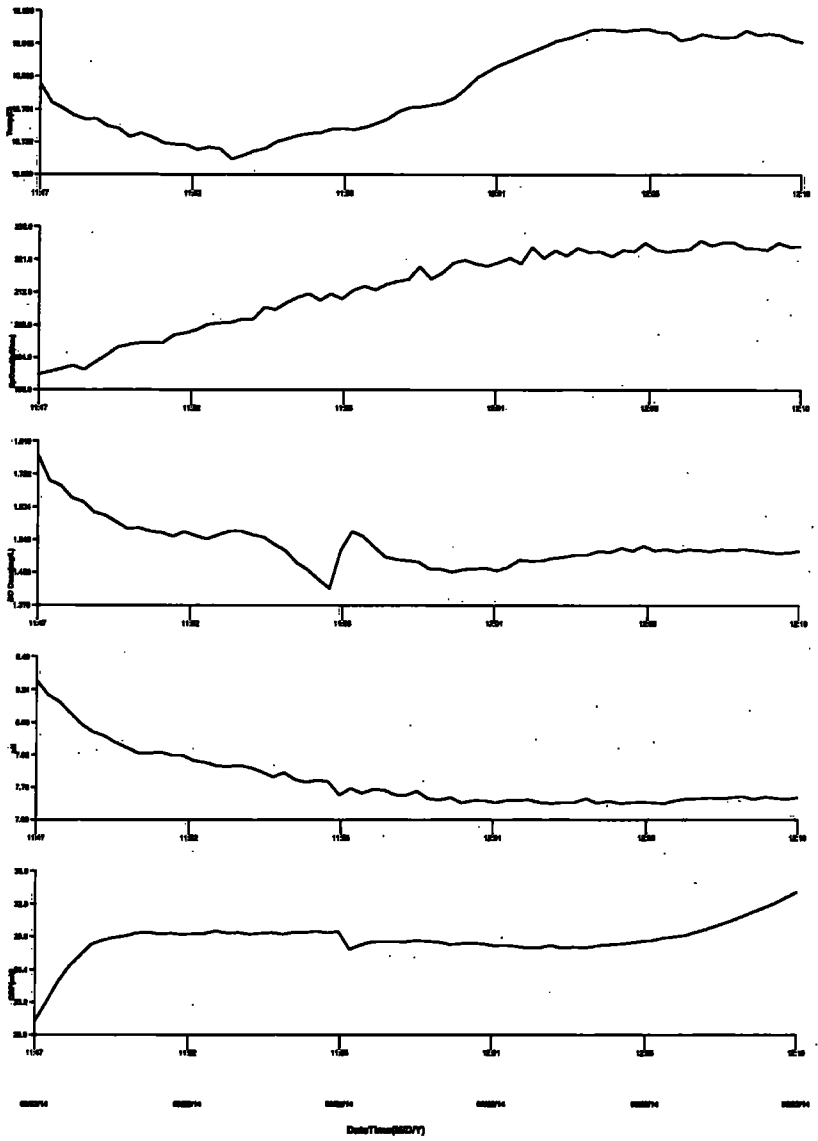
MW-33S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/22/14 11:56:07	10.73	209.8	1.44	7.80	30
27	09/22/14 11:56:27	10.74	211.5	1.42	7.79	30
28	09/22/14 11:56:47	10.74	210.2	1.52	7.72	30
29	09/22/14 11:57:07	10.74	212.5	1.57	7.75	28
30	09/22/14 11:57:27	10.74	213.6	1.55	7.73	29
31	09/22/14 11:57:47	10.75	212.7	1.52	7.75	29
32	09/22/14 11:58:07	10.75	214.2	1.50	7.75	29
33	09/22/14 11:58:27	10.76	215.0	1.49	7.72	29
34	09/22/14 11:58:47	10.77	215.5	1.49	7.72	29
35	09/22/14 11:59:07	10.77	219.0	1.49	7.74	29
36	09/22/14 11:59:27	10.77	215.6	1.47	7.70	29
37	09/22/14 11:59:47	10.77	217.3	1.47	7.70	29
38	09/22/14 12:00:07	10.78	220.0	1.46	7.71	29
39	09/22/14 12:00:27	10.79	220.8	1.46	7.68	29
40	09/22/14 12:00:47	10.80	219.8	1.47	7.70	29
41	09/22/14 12:01:07	10.81	219.2	1.47	7.70	29
42	09/22/14 12:01:27	10.82	220.2	1.46	7.68	29
43	09/22/14 12:01:47	10.83	221.4	1.47	7.70	29
44	09/22/14 12:02:07	10.83	219.8	1.49	7.70	29
45	09/22/14 12:02:27	10.84	224.3	1.49	7.70	28
46	09/22/14 12:02:47	10.84	221.3	1.49	7.69	28
47	09/22/14 12:03:07	10.85	223.4	1.50	7.68	29
48	09/22/14 12:03:27	10.85	222.0	1.50	7.69	28
49	09/22/14 12:03:47	10.86	224.1	1.50	7.69	29
50	09/22/14 12:04:07	10.87	223.0	1.50	7.70	29

MW-33S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/22/14 12:04:27	10.87	223.2	1.51	7.68	29
52	09/22/14 12:04:47	10.87	221.8	1.51	7.69	29
53	09/22/14 12:05:07	10.86	223.5	1.52	7.68	29
54	09/22/14 12:05:27	10.87	223.3	1.51	7.69	29
55	09/22/14 12:05:47	10.87	225.5	1.53	7.69	29
56	09/22/14 12:06:07	10.86	223.7	1.52	7.68	29
57	09/22/14 12:06:27	10.86	223.1	1.52	7.68	29
58	09/22/14 12:06:47	10.85	223.5	1.51	7.70	30
59	09/22/14 12:07:07	10.85	223.9	1.52	7.70	30
60	09/22/14 12:07:27	10.86	226.1	1.52	7.71	30
61	09/22/14 12:07:47	10.86	224.8	1.51	7.71	30
62	09/22/14 12:08:07	10.86	225.7	1.52	7.71	31
63	09/22/14 12:08:27	10.86	225.6	1.52	7.71	31
64	09/22/14 12:08:47	10.86	224.1	1.52	7.72	32
65	09/22/14 12:09:07	10.86	224.0	1.52	7.70	32
66	09/22/14 12:09:27	10.86	223.6	1.51	7.71	32
67	09/22/14 12:09:47	10.86	225.6	1.51	7.71	33
68	09/22/14 12:10:07	10.85	224.5	1.51	7.70	33
69	09/22/14 12:10:27	10.85	224.7	1.51	7.71	34

MW-33S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-33i-0914
Volatile bottles preserved by: JB 09/15/14 lot# 2725
Sampled by: JB

Date: 9-22-14
Time: 12:55 pm
Weather: cool/sunny

Top of casing elevation: 628.62 ft
Depth to well bottom: 71.2 ft
Depth to static water level: 14.72 ft
Height of water column, H: 56.48 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 8.64 gallons
Volume of water evacuated: 3 (.35wc) gallons
Depth to static water level after purging: 14.80
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:30		15.65	10.71	7.54	4.11	193	35.2	54.0
2	12:45		15.62	10.61	7.85	.84	311	11.3	55.3
3	12:48		15.62	10.58	7.83	.74	317	11.0	55.5
4	12:51		15.62	10.56	7.81	.69	320	10.0	56.0
5									
6									
7									
8									

Sample color: slightly cloudy
Sample turbidity: mild
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

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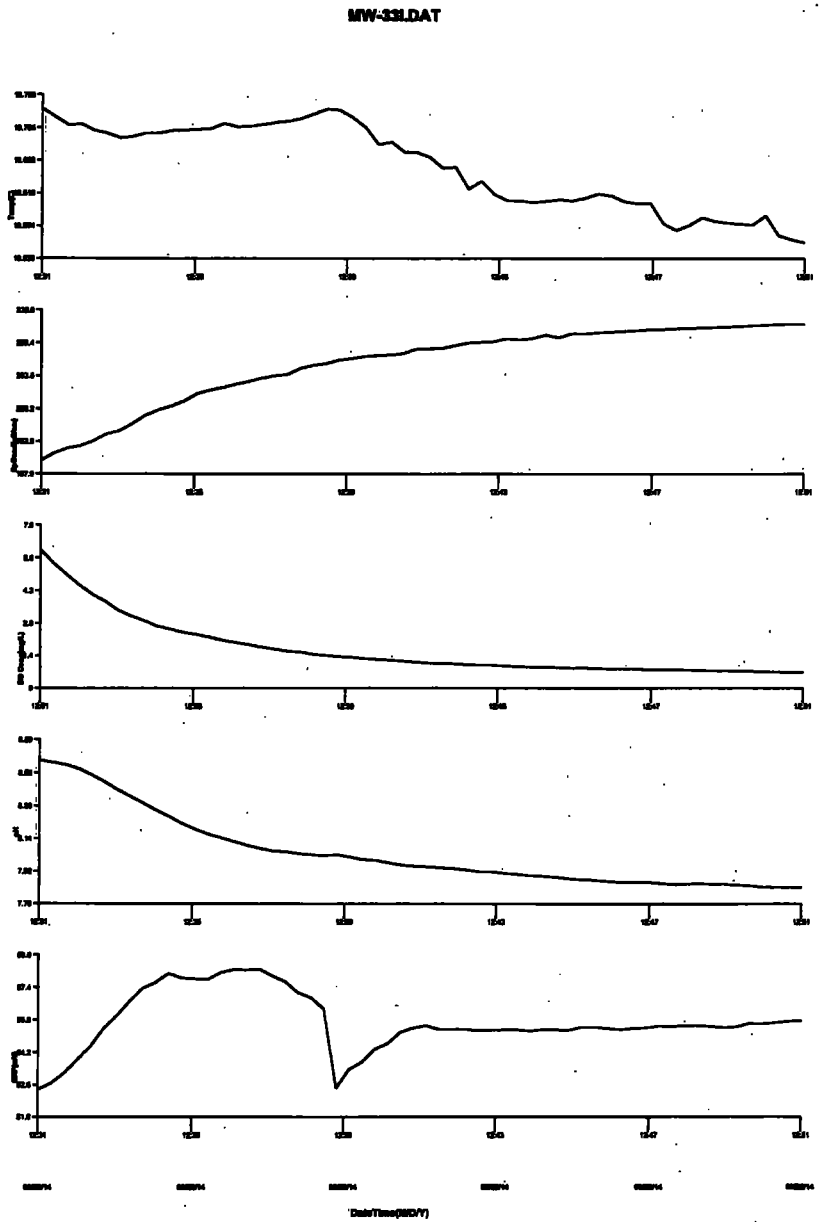
MW-33i-0914.xls

MW-33I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/22/14 12:31:59	10.73	172.2	5.90	8.66	52
2	09/22/14 12:32:19	10.72	179.6	5.34	8.64	53
3	09/22/14 12:32:39	10.71	184.9	4.85	8.63	53
4	09/22/14 12:32:59	10.71	187.5	4.41	8.60	54
5	09/22/14 12:33:19	10.70	192.8	4.02	8.56	54
6	09/22/14 12:33:39	10.70	200.2	3.71	8.52	55
7	09/22/14 12:33:59	10.69	203.9	3.34	8.47	56
8	09/22/14 12:34:19	10.69	211.6	3.10	8.42	57
9	09/22/14 12:34:39	10.70	220.6	2.90	8.38	57
10	09/22/14 12:34:59	10.70	226.7	2.66	8.33	58
11	09/22/14 12:35:19	10.70	231.0	2.53	8.29	58
12	09/22/14 12:35:39	10.70	236.3	2.38	8.24	58
13	09/22/14 12:35:59	10.70	244.2	2.31	8.20	58
14	09/22/14 12:36:19	10.70	248.1	2.19	8.17	58
15	09/22/14 12:36:39	10.71	250.7	2.05	8.14	58
16	09/22/14 12:36:59	10.71	254.2	1.96	8.12	58
17	09/22/14 12:37:19	10.71	257.2	1.87	8.09	58
18	09/22/14 12:37:39	10.71	260.8	1.77	8.07	58
19	09/22/14 12:37:59	10.71	263.1	1.67	8.05	58
20	09/22/14 12:38:19	10.71	265.0	1.58	8.05	58
21	09/22/14 12:38:39	10.72	271.3	1.55	8.04	57
22	09/22/14 12:38:59	10.72	274.5	1.45	8.03	57
23	09/22/14 12:39:19	10.73	276.8	1.41	8.02	56
24	09/22/14 12:39:39	10.73	280.0	1.36	8.03	52
25	09/22/14 12:39:59	10.72	282.1	1.33	8.01	53
26	09/22/14 12:40:19	10.71	284.3	1.28	8.00	54
27	09/22/14 12:40:39	10.68	285.2	1.24	7.99	54
28	09/22/14 12:40:59	10.69	285.7	1.21	7.97	55
29	09/22/14 12:41:19	10.67	287.4	1.17	7.96	55
30	09/22/14 12:41:39	10.67	292.2	1.12	7.95	55

MW-33I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	09/22/14 12:41:59	10.67	292.5	1.09	7.95	56
32	09/22/14 12:42:19	10.65	293.1	1.07	7.94	55
33	09/22/14 12:42:39	10.65	296.0	1.06	7.94	55
34	09/22/14 12:42:59	10.62	299.0	1.02	7.93	55
35	09/22/14 12:43:19	10.63	299.4	1.00	7.92	55
36	09/22/14 12:43:39	10.62	300.3	0.99	7.92	55
37	09/22/14 12:43:59	10.61	303.3	0.96	7.91	55
38	09/22/14 12:44:19	10.61	302.3	0.94	7.90	55
39	09/22/14 12:44:39	10.61	303.8	0.91	7.89	55
40	09/22/14 12:44:59	10.61	307.6	0.90	7.89	55
41	09/22/14 12:45:19	10.61	304.5	0.89	7.88	55
42	09/22/14 12:45:39	10.61	308.9	0.87	7.87	55
43	09/22/14 12:45:59	10.61	308.6	0.88	7.86	55
44	09/22/14 12:46:19	10.62	310.0	0.86	7.86	55
45	09/22/14 12:46:39	10.61	310.8	0.84	7.85	55
46	09/22/14 12:46:59	10.61	311.4	0.84	7.85	55
47	09/22/14 12:47:19	10.60	312.3	0.84	7.85	55
48	09/22/14 12:47:39	10.60	313.0	0.82	7.84	55
49	09/22/14 12:47:59	10.58	313.7	0.81	7.84	55
50	09/22/14 12:48:19	10.57	314.3	0.79	7.83	55
51	09/22/14 12:48:39	10.57	314.8	0.78	7.83	55
52	09/22/14 12:48:59	10.59	315.2	0.77	7.84	56
53	09/22/14 12:49:19	10.58	315.7	0.76	7.83	55
54	09/22/14 12:49:39	10.58	316.4	0.76	7.83	55
55	09/22/14 12:49:59	10.58	316.8	0.74	7.83	55
56	09/22/14 12:50:19	10.58	317.4	0.74	7.82	56
57	09/22/14 12:50:39	10.59	318.1	0.73	7.81	56
58	09/22/14 12:50:59	10.56	318.8	0.71	7.81	56
59	09/22/14 12:51:19	10.56	319.2	0.69	7.81	56
60	09/22/14 12:51:39	10.55	319.3	0.70	7.81	56



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-33d-0914
Volatile bottles preserved by: JB 09/18/14 0545 2725
Sampled by: EP

Date: 9-22-14
Time: 1:40 pm
Weather: cool / Sunny

Top of casing elevation: 628.63 ft
Depth to well bottom: 167 ft
Depth to static water level: 3.25 ft
Height of water column, H: 163.75 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 25 gallons
Volume of water evacuated: 4 (.16 wc) gallons
Depth to static water level after purging: 3.25
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:15		3.55	11.43	7.95	2.41	236	10.55	67.8
2	1:30		3.60	11.21	7.78	.50	251	1.60	43.4
3	1:33		3.60	11.20	7.75	.46	247	1.56	-12.5
4	1:36		3.60	11.20	7.73	.44	253	1.65	-11.2
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

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MW-33d 0912.xls

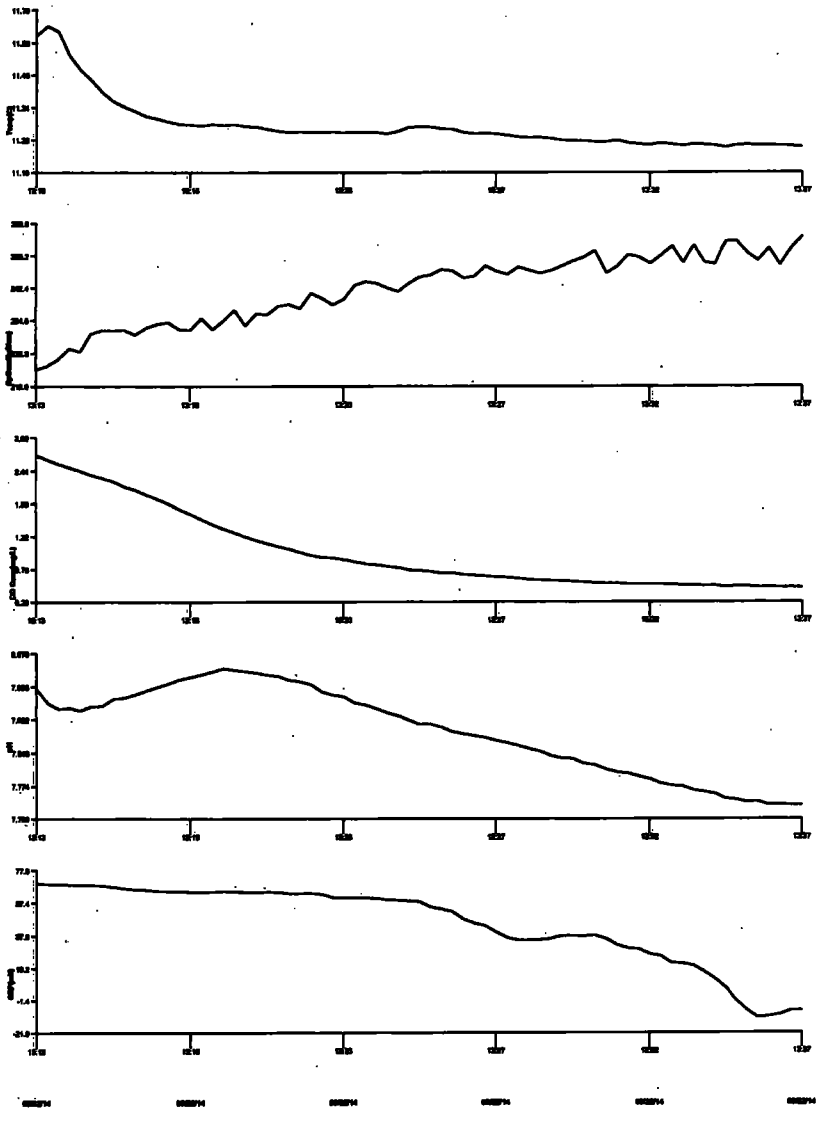
MW-33D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/22/14 13:13:43	11.61	222.9	2.70	7.99	69
2	09/22/14 13:14:03	11.64	223.8	2.62	7.96	68
3	09/22/14 13:14:23	11.62	225.4	2.55	7.94	68
4	09/22/14 13:14:43	11.53	227.8	2.49	7.95	68
5	09/22/14 13:15:03	11.48	227.1	2.43	7.94	68
6	09/22/14 13:15:23	11.44	231.3	2.36	7.95	68
7	09/22/14 13:15:43	11.39	232.1	2.31	7.95	67
8	09/22/14 13:16:03	11.36	232.1	2.25	7.97	67
9	09/22/14 13:16:23	11.34	232.2	2.17	7.97	66
10	09/22/14 13:16:43	11.32	231.1	2.12	7.98	65
11	09/22/14 13:17:03	11.31	232.8	2.03	7.99	65
12	09/22/14 13:17:23	11.30	233.6	1.96	7.99	64
13	09/22/14 13:17:43	11.29	234.1	1.88	8.00	64
14	09/22/14 13:18:03	11.28	232.4	1.78	8.01	64
15	09/22/14 13:18:23	11.28	232.2	1.70	8.02	64
16	09/22/14 13:18:43	11.27	235.0	1.60	8.02	64
17	09/22/14 13:19:03	11.28	232.4	1.52	8.03	64
18	09/22/14 13:19:23	11.27	234.5	1.45	8.04	64
19	09/22/14 13:19:43	11.28	237.0	1.39	8.03	64
20	09/22/14 13:20:03	11.27	233.3	1.31	8.03	64
21	09/22/14 13:20:23	11.27	236.1	1.25	8.03	63
22	09/22/14 13:20:43	11.26	235.8	1.20	8.02	64
23	09/22/14 13:21:03	11.25	237.9	1.15	8.02	64
24	09/22/14 13:21:23	11.25	238.4	1.11	8.01	63
25	09/22/14 13:21:43	11.25	237.4	1.05	8.01	63

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/22/14 13:22:03	11.25	241.1	1.00	8.00	63
27	09/22/14 13:22:23	11.25	239.8	0.97	7.98	62
28	09/22/14 13:22:43	11.25	238.3	0.96	7.98	60
29	09/22/14 13:23:03	11.25	239.6	0.93	7.97	60
30	09/22/14 13:23:23	11.25	243.0	0.89	7.96	60
31	09/22/14 13:23:43	11.25	244.0	0.85	7.95	60
32	09/22/14 13:24:03	11.25	243.5	0.84	7.95	60
33	09/22/14 13:24:23	11.24	242.3	0.81	7.94	59
34	09/22/14 13:24:43	11.25	241.5	0.79	7.93	59
35	09/22/14 13:25:03	11.27	243.4	0.75	7.92	58
36	09/22/14 13:25:23	11.27	245.0	0.74	7.91	58
37	09/22/14 13:25:43	11.27	245.5	0.72	7.91	55
38	09/22/14 13:26:03	11.26	246.8	0.70	7.90	53
39	09/22/14 13:26:23	11.26	246.5	0.70	7.89	52
40	09/22/14 13:26:43	11.25	244.8	0.67	7.89	47
41	09/22/14 13:27:03	11.24	245.2	0.66	7.88	45
42	09/22/14 13:27:23	11.24	247.7	0.64	7.88	44
43	09/22/14 13:27:43	11.24	246.3	0.63	7.87	40
44	09/22/14 13:28:03	11.24	245.6	0.62	7.87	36
45	09/22/14 13:28:23	11.23	247.4	0.60	7.86	35
46	09/22/14 13:28:43	11.23	246.6	0.58	7.86	35
47	09/22/14 13:29:03	11.23	245.9	0.57	7.85	35
48	09/22/14 13:29:23	11.23	246.5	0.57	7.84	36
49	09/22/14 13:29:43	11.22	247.7	0.56	7.83	38
50	09/22/14 13:30:03	11.22	248.8	0.55	7.83	37

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/22/14 13:30:23	11.22	249.7	0.54	7.82	37
52	09/22/14 13:30:43	11.21	251.3	0.53	7.82	38
53	09/22/14 13:31:03	11.21	245.9	0.52	7.81	36
54	09/22/14 13:31:23	11.22	247.6	0.52	7.80	32
55	09/22/14 13:31:43	11.21	250.3	0.50	7.80	30
56	09/22/14 13:32:03	11.20	249.7	0.51	7.79	30
57	09/22/14 13:32:23	11.20	248.2	0.50	7.79	27
58	09/22/14 13:32:43	11.21	250.2	0.50	7.78	25
59	09/22/14 13:33:03	11.20	252.3	0.50	7.77	21
60	09/22/14 13:33:23	11.20	248.4	0.48	7.77	21
61	09/22/14 13:33:43	11.20	252.6	0.48	7.76	20
62	09/22/14 13:34:03	11.20	248.5	0.47	7.76	16
63	09/22/14 13:34:23	11.20	248.1	0.48	7.76	12
64	09/22/14 13:34:43	11.19	253.5	0.45	7.75	7
65	09/22/14 13:35:03	11.20	253.6	0.47	7.74	-1
66	09/22/14 13:35:23	11.20	250.8	0.46	7.74	-8
67	09/22/14 13:35:43	11.20	248.9	0.45	7.74	-12
68	09/22/14 13:36:03	11.20	251.9	0.45	7.73	-11
69	09/22/14 13:36:23	11.20	247.9	0.44	7.73	-10
70	09/22/14 13:36:43	11.20	251.9	0.45	7.73	-8
71	09/22/14 13:37:03	11.19	254.7	0.44	7.73	-8

MW-33D.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-34s-0914
Volatile bottles preserved by: JR 09/18/14 exp 2725
Sampled by: TF

Date: 9.22.14
Time: 2:25 pm
Weather: cool/sunny

Top of casing elevation: 629.99 ft
Depth to well bottom: 34 ft
Depth to static water level: 21.10 ft
Height of water column, H: 12.9 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.97 gallons
Volume of water evacuated: 3 (1.5 vol) gallons
Depth to static water level after purging: 27.55
Did well recover? (YES) NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	2 pm		23.18	10.91	8.54	2.83	269	11.3	96.2
2	2:15		23.00	10.67	8.19	1.95	241	9.13	59.7
3	2:18		23.0	10.67	8.15	1.98	240	8.41	59.7
4	2:21		23.06	10.71	8.13	2.00	236	7.39	60.3
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations: N/A
Comments:

Additional comments on methodology, etc.:

Signature:

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MW-34s-0912.xls

MW-34S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/22/14 14:01:32	11.05	268.5	3.06	8.55	55
2	09/22/14 14:01:52	11.06	267.8	2.99	8.54	55
3	09/22/14 14:02:12	11.00	271.5	2.92	8.53	56
4	09/22/14 14:02:32	10.91	267.6	2.86	8.54	56
5	09/22/14 14:02:52	10.92	266.0	2.75	8.54	56
6	09/22/14 14:03:12	10.94	269.0	2.67	8.53	56
7	09/22/14 14:03:32	10.90	266.8	2.57	8.51	56
8	09/22/14 14:03:52	10.87	267.8	2.50	8.51	56
9	09/22/14 14:04:12	10.86	268.7	2.44	8.50	56
10	09/22/14 14:04:32	10.87	267.4	2.38	8.50	56
11	09/22/14 14:04:52	10.89	270.2	2.32	8.49	57
12	09/22/14 14:05:12	10.89	267.8	2.26	8.47	57
13	09/22/14 14:05:32	10.82	270.4	2.22	8.47	57
14	09/22/14 14:05:52	10.83	266.9	2.17	8.46	57
15	09/22/14 14:06:12	10.76	267.5	2.15	8.46	57
16	09/22/14 14:06:32	10.75	271.0	2.11	8.45	57
17	09/22/14 14:06:52	10.73	269.1	2.07	8.45	57
18	09/22/14 14:07:12	10.73	266.8	2.05	8.43	58
19	09/22/14 14:07:32	10.71	271.0	2.04	8.44	58
20	09/22/14 14:07:52	10.71	267.6	2.00	8.44	58
21	09/22/14 14:08:12	10.71	270.0	1.98	8.43	58
22	09/22/14 14:08:32	10.71	267.3	1.95	8.42	58
23	09/22/14 14:08:52	10.69	266.2	1.94	8.43	58
24	09/22/14 14:09:12	10.70	264.0	1.91	8.41	58
25	09/22/14 14:09:32	10.69	264.1	1.87	8.42	57

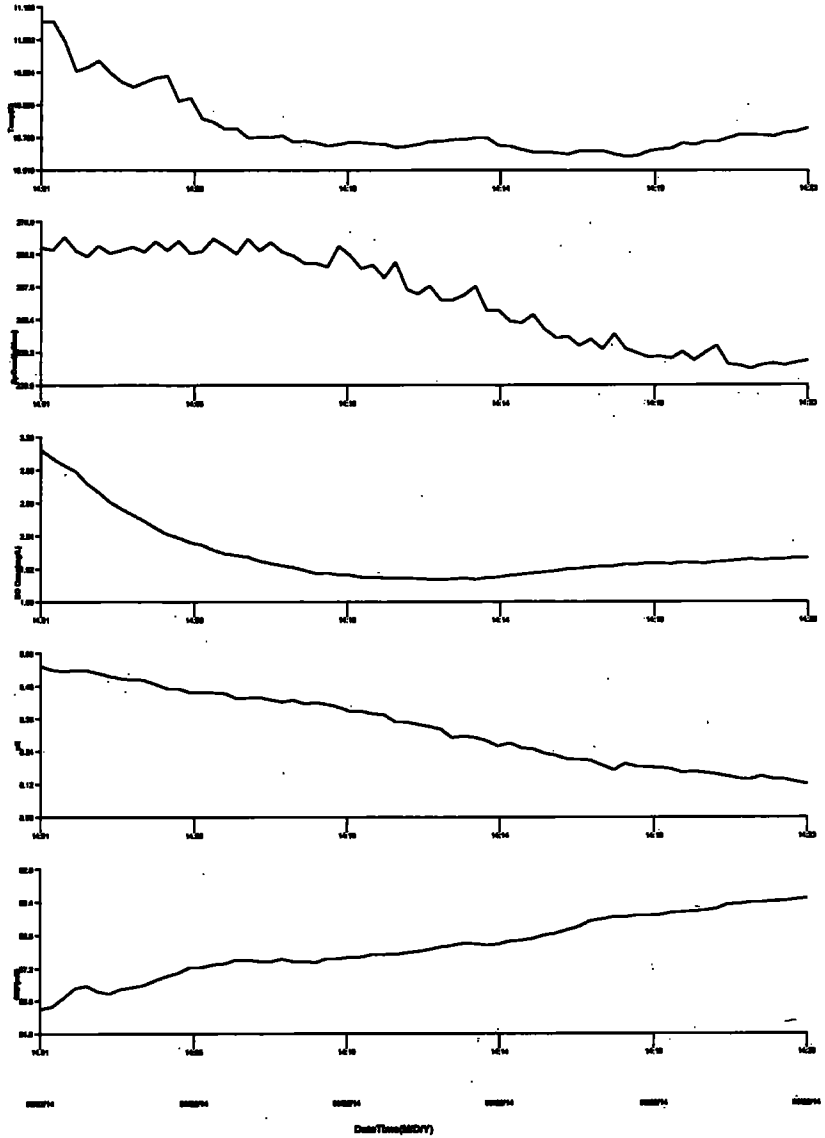
MW-34S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/22/14 14:09:52	10.68	263.0	1.88	8.41	58
27	09/22/14 14:10:12	10.69	268.9	1.86	8.40	58
28	09/22/14 14:10:32	10.69	266.3	1.86	8.39	58
29	09/22/14 14:10:52	10.69	262.5	1.84	8.39	58
30	09/22/14 14:11:12	10.69	263.6	1.84	8.38	58
31	09/22/14 14:11:32	10.69	260.0	1.84	8.37	58
32	09/22/14 14:11:52	10.68	264.3	1.83	8.35	58
33	09/22/14 14:12:12	10.68	256.7	1.83	8.35	58
34	09/22/14 14:12:32	10.69	255.4	1.83	8.34	58
35	09/22/14 14:12:52	10.70	257.6	1.82	8.33	58
36	09/22/14 14:13:12	10.70	253.7	1.82	8.32	58
37	09/22/14 14:13:32	10.70	253.7	1.82	8.29	58
38	09/22/14 14:13:52	10.70	255.1	1.83	8.30	58
39	09/22/14 14:14:12	10.71	257.5	1.82	8.29	58
40	09/22/14 14:14:32	10.71	250.7	1.83	8.28	58
41	09/22/14 14:14:52	10.68	250.8	1.84	8.26	58
42	09/22/14 14:15:12	10.68	247.8	1.86	8.27	59
43	09/22/14 14:15:32	10.67	247.3	1.87	8.25	59
44	09/22/14 14:15:52	10.66	249.6	1.88	8.25	59
45	09/22/14 14:16:12	10.66	245.4	1.89	8.23	59
46	09/22/14 14:16:32	10.66	243.0	1.90	8.22	59
47	09/22/14 14:16:52	10.66	243.4	1.92	8.21	59
48	09/22/14 14:17:12	10.67	240.9	1.92	8.21	59
49	09/22/14 14:17:32	10.67	242.6	1.94	8.21	59
50	09/22/14 14:17:52	10.67	239.9	1.95	8.19	60

MW-34S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/22/14 14:18:12	10.66	244.1	1.95	8.17	60
52	09/22/14 14:18:32	10.65	240.0	1.97	8.19	60
53	09/22/14 14:18:52	10.65	238.8	1.96	8.18	60
54	09/22/14 14:19:12	10.67	237.7	1.98	8.18	60
55	09/22/14 14:19:32	10.67	237.9	1.98	8.18	60
56	09/22/14 14:19:52	10.68	237.3	1.97	8.17	60
57	09/22/14 14:20:12	10.69	239.2	1.98	8.16	60
58	09/22/14 14:20:32	10.69	236.8	1.98	8.17	60
59	09/22/14 14:20:52	10.70	238.9	1.97	8.16	60
60	09/22/14 14:21:12	10.70	240.9	1.99	8.16	60
61	09/22/14 14:21:32	10.71	235.8	1.99	8.15	60
62	09/22/14 14:21:52	10.72	235.4	2.01	8.14	60
63	09/22/14 14:22:12	10.72	234.5	2.01	8.14	60
64	09/22/14 14:22:32	10.72	235.6	2.01	8.15	60
65	09/22/14 14:22:52	10.71	235.9	2.02	8.14	60
66	09/22/14 14:23:12	10.72	235.4	2.01	8.14	60
67	09/22/14 14:23:32	10.73	236.1	2.03	8.13	61
68	09/22/14 14:23:52	10.74	236.6	2.03	8.12	61

MW-34S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-34i-0914
Volatile bottles preserved by: JB 09/16/14 eSCT 2725
Sampled by: GW

Date: 9-23-14
Time: 8:41 am
Weather: cool

Top of casing elevation: 630.3 ft
Depth to well bottom: 78 ft
Depth to static water level: 19.61 ft
Height of water column, H: 58.39 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 8.9 gallons
Volume of water evacuated: 3 (.34 ac) gallons
Depth to static water level after purging: 19.61
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: ~~400~~ 200 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:20		19.80	10.03	7.86	6.44	269	9.63	141.1
2	8:35		19.78	9.95	7.42	2.92	300	1.35	146.3
3	8:38		19.78	9.96	7.42	2.91	302	1.15	145.9
4	8:41		19.78	9.98	7.42	2.89	301	1.05	145.3
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.: Flow dropped

Signature:

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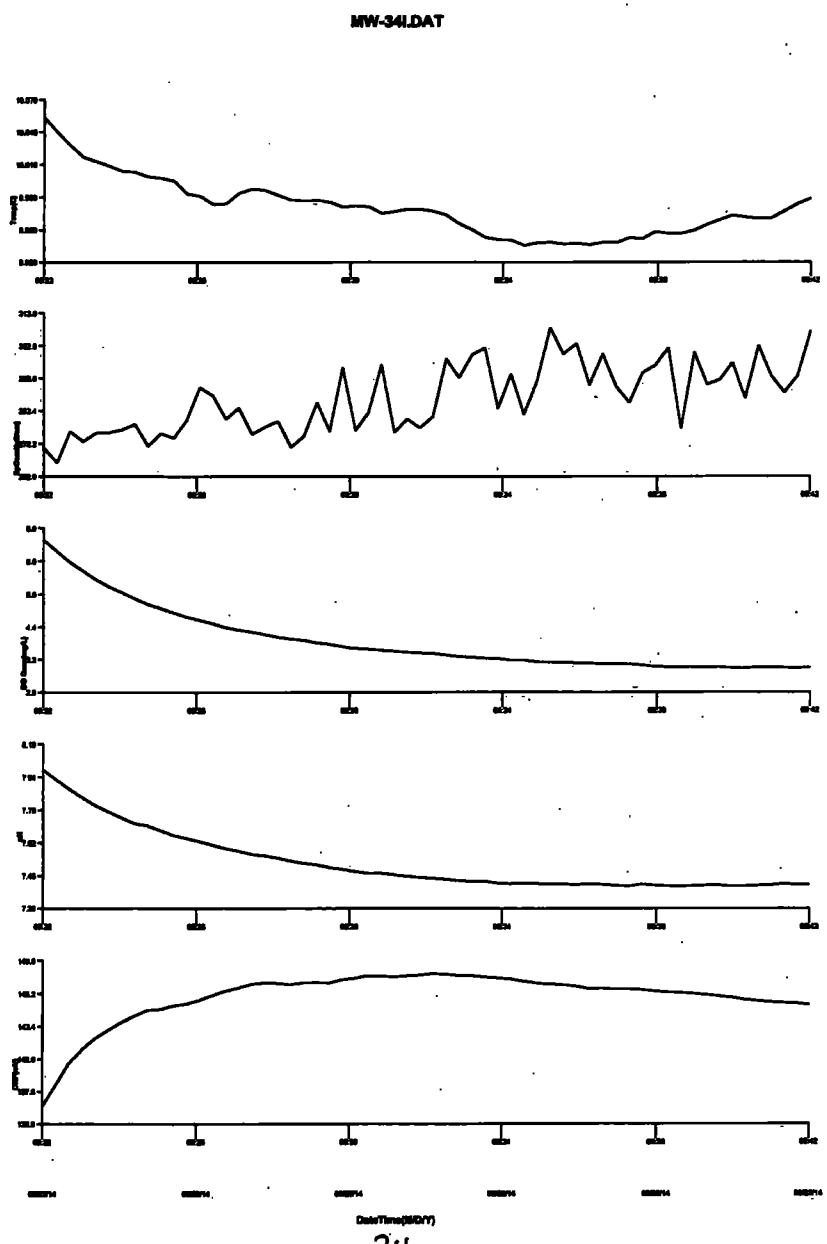
MW-34I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/23/14 08:22:26	10.05	270.7	7.53	7.97	137
2	09/23/14 08:22:46	10.04	266.3	7.15	7.92	138
3	09/23/14 08:23:06	10.03	275.8	6.75	7.88	140
4	09/23/14 08:23:26	10.02	272.8	6.45	7.84	141
5	09/23/14 08:23:46	10.01	275.4	6.12	7.80	142
6	09/23/14 08:24:06	10.01	275.6	5.87	7.77	143
7	09/23/14 08:24:26	10.00	276.4	5.65	7.74	144
8	09/23/14 08:24:46	10.00	278.1	5.44	7.71	144
9	09/23/14 08:25:06	10.00	271.4	5.22	7.70	145
10	09/23/14 08:25:26	10.00	275.2	5.07	7.68	145
11	09/23/14 08:25:46	9.99	273.9	4.91	7.65	145
12	09/23/14 08:26:06	9.98	279.3	4.76	7.64	145
13	09/23/14 08:26:26	9.98	289.6	4.64	7.63	146
14	09/23/14 08:26:46	9.97	286.9	4.51	7.61	146
15	09/23/14 08:27:06	9.97	279.7	4.37	7.59	146
16	09/23/14 08:27:26	9.98	283.1	4.29	7.58	147
17	09/23/14 08:27:46	9.99	275.0	4.21	7.56	147
18	09/23/14 08:28:06	9.99	277.2	4.11	7.56	147
19	09/23/14 08:28:26	9.98	279.1	4.01	7.54	147
20	09/23/14 08:28:46	9.98	271.0	3.95	7.53	147
21	09/23/14 08:29:06	9.98	274.3	3.91	7.52	147
22	09/23/14 08:29:26	9.98	284.8	3.82	7.51	147
23	09/23/14 08:29:46	9.98	275.8	3.76	7.50	147
24	09/23/14 08:30:06	9.97	295.7	3.68	7.49	147
25	09/23/14 08:30:26	9.97	276.1	3.61	7.48	147
26	09/23/14 08:30:46	9.97	281.6	3.59	7.47	148
27	09/23/14 08:31:06	9.97	296.7	3.55	7.47	148
28	09/23/14 08:31:26	9.97	275.6	3.51	7.46	148
29	09/23/14 08:31:46	9.97	279.7	3.47	7.46	148
30	09/23/14 08:32:06	9.97	276.9	3.45	7.45	148

MW-34I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	09/23/14 08:32:26	9.97	280.3	3.42	7.45	148
32	09/23/14 08:32:46	9.96	298.5	3.36	7.44	148
33	09/23/14 08:33:06	9.96	292.6	3.31	7.44	148
34	09/23/14 08:33:26	9.95	299.7	3.29	7.43	148
35	09/23/14 08:33:46	9.94	301.9	3.25	7.43	148
36	09/23/14 08:34:06	9.94	282.9	3.23	7.42	148
37	09/23/14 08:34:26	9.94	293.7	3.17	7.42	147
38	09/23/14 08:34:46	9.94	281.0	3.17	7.43	147
39	09/23/14 08:35:06	9.94	291.5	3.11	7.42	147
40	09/23/14 08:35:26	9.94	308.1	3.09	7.42	147
41	09/23/14 08:35:46	9.94	300.0	3.08	7.42	147
42	09/23/14 08:36:06	9.94	303.2	3.06	7.41	147
43	09/23/14 08:36:26	9.94	290.3	3.06	7.42	147
44	09/23/14 08:36:46	9.94	300.0	3.03	7.42	147
45	09/23/14 08:37:06	9.94	289.7	3.04	7.41	147
46	09/23/14 08:37:26	9.94	284.7	3.02	7.41	147
47	09/23/14 08:37:46	9.94	293.9	2.99	7.42	147
48	09/23/14 08:38:06	9.95	296.4	2.94	7.41	146
49	09/23/14 08:38:26	9.95	301.9	2.91	7.41	146
50	09/23/14 08:38:46	9.95	276.7	2.91	7.41	146
51	09/23/14 08:39:06	9.95	300.4	2.91	7.41	146
52	09/23/14 08:39:26	9.95	290.4	2.90	7.41	146
53	09/23/14 08:39:46	9.96	291.9	2.91	7.41	146
54	09/23/14 08:40:06	9.96	297.2	2.88	7.41	146
55	09/23/14 08:40:26	9.96	286.0	2.87	7.41	146
56	09/23/14 08:40:46	9.96	302.7	2.91	7.41	146
57	09/23/14 08:41:06	9.96	293.0	2.89	7.41	145
58	09/23/14 08:41:26	9.97	287.9	2.89	7.42	145
59	09/23/14 08:41:46	9.97	293.1	2.88	7.42	145
60	09/23/14 08:42:06	9.98	307.2	2.88	7.42	145



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-34d-0914
Volatile bottles preserved by: JR 09/18/14 OACT 2725
Sampled by: if

Date: 9-23-14
Time: 9:25 am
Weather: cool

Top of casing elevation: 630.48 ft
Depth to well bottom: 151 ft
Depth to static water level: 4.90 ft
Height of water column, H: 146.1 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 22.35 gallons
Volume of water evacuated: 4 (1.18 wc) gallons
Depth to static water level after purging: 4.90
Did well recover? (YES) NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9am		5.22	10.69	8.18	4.34	228	30.6	115.0
2	9:15		5.20	10.83	8.32	1.27	269	29.4	113.5
3	9:18		5.20	10.79	8.31	1.25	271	27.9	-113.9
4	9:21		5.20	10.80	8.30	1.20	263	25.4	-114.3
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

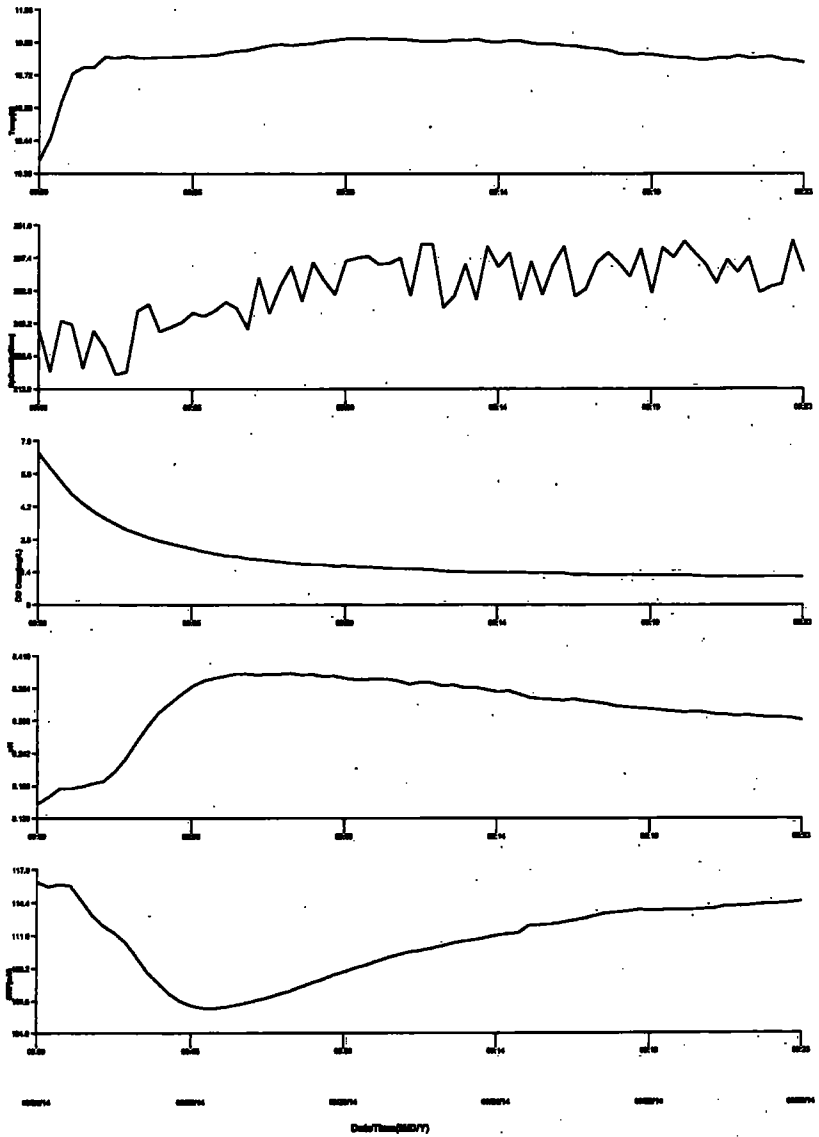
MW-34D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
0	09/23/14 09:00:31	10.36	237.0	6.44	8.16	116
1	09/23/14 09:00:51	10.45	220.1	5.85	8.17	116
2	09/23/14 09:01:11	10.61	241.0	5.28	8.18	116
3	09/23/14 09:01:31	10.73	239.6	4.71	8.18	116
4	09/23/14 09:01:51	10.75	221.5	4.34	8.18	115
5	09/23/14 09:02:11	10.75	236.8	4.00	8.19	113
6	09/23/14 09:02:31	10.80	230.0	3.71	8.19	113
7	09/23/14 09:02:51	10.79	218.9	3.46	8.21	112
8	09/23/14 09:03:11	10.80	219.8	3.23	8.23	111
9	09/23/14 09:03:31	10.79	245.4	3.05	8.26	110
10	09/23/14 09:03:51	10.79	247.9	2.88	8.29	109
11	09/23/14 09:04:11	10.79	236.7	2.74	8.31	108
12	09/23/14 09:04:31	10.79	238.6	2.62	8.33	107
13	09/23/14 09:04:51	10.80	240.5	2.50	8.34	107
14	09/23/14 09:05:11	10.80	244.5	2.40	8.36	106
15	09/23/14 09:05:31	10.80	243.1	2.28	8.37	106
16	09/23/14 09:05:51	10.80	245.5	2.19	8.37	106
17	09/23/14 09:06:11	10.82	249.0	2.10	8.37	106
18	09/23/14 09:06:31	10.82	246.4	2.06	8.38	106
19	09/23/14 09:06:51	10.83	237.8	1.97	8.38	106
20	09/23/14 09:07:11	10.84	259.0	1.93	8.38	107
21	09/23/14 09:07:31	10.85	244.4	1.89	8.38	107
22	09/23/14 09:07:51	10.85	255.6	1.84	8.38	107
23	09/23/14 09:08:11	10.85	263.6	1.78	8.38	107
24	09/23/14 09:08:31	10.85	249.5	1.75	8.38	108

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
25	09/23/14 09:08:51	10.86	265.3	1.70	8.38	108
26	09/23/14 09:09:11	10.87	257.9	1.71	8.37	108
27	09/23/14 09:09:31	10.87	252.1	1.66	8.37	109
28	09/23/14 09:09:51	10.88	266.0	1.67	8.37	109
29	09/23/14 09:10:11	10.88	267.2	1.63	8.37	109
30	09/23/14 09:10:31	10.87	268.0	1.60	8.37	109
31	09/23/14 09:10:51	10.88	264.7	1.58	8.37	110
32	09/23/14 09:11:11	10.87	264.9	1.55	8.37	110
33	09/23/14 09:11:31	10.87	267.2	1.54	8.37	110
34	09/23/14 09:11:51	10.87	251.8	1.53	8.36	110
35	09/23/14 09:12:11	10.87	273.0	1.52	8.36	111
36	09/23/14 09:12:31	10.87	272.9	1.49	8.36	111
37	09/23/14 09:12:51	10.86	246.9	1.44	8.36	111
38	09/23/14 09:13:11	10.87	251.6	1.43	8.36	111
39	09/23/14 09:13:31	10.87	264.7	1.40	8.35	111
40	09/23/14 09:13:51	10.87	250.2	1.37	8.35	111
41	09/23/14 09:14:11	10.86	271.9	1.39	8.35	112
42	09/23/14 09:14:31	10.86	263.5	1.38	8.35	112
43	09/23/14 09:14:51	10.87	269.4	1.37	8.35	112
44	09/23/14 09:15:11	10.87	250.2	1.39	8.34	112
45	09/23/14 09:15:31	10.86	265.6	1.35	8.34	113
46	09/23/14 09:15:51	10.85	252.2	1.37	8.34	113
47	09/23/14 09:16:11	10.85	264.4	1.34	8.33	113
48	09/23/14 09:16:31	10.85	272.1	1.34	8.33	113
49	09/23/14 09:16:51	10.85	251.4	1.28	8.33	113

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
50	09/23/14 09:17:11	10.84	254.5	1.29	8.33	113
51	09/23/14 09:17:31	10.83	265.3	1.28	8.33	113
52	09/23/14 09:17:51	10.83	269.5	1.28	8.33	114
53	09/23/14 09:18:11	10.81	265.1	1.27	8.32	114
54	09/23/14 09:18:31	10.81	259.7	1.28	8.32	114
55	09/23/14 09:18:51	10.81	271.1	1.28	8.32	114
56	09/23/14 09:19:11	10.81	252.8	1.27	8.32	114
57	09/23/14 09:19:31	10.80	271.5	1.26	8.32	114
58	09/23/14 09:19:51	10.80	267.5	1.26	8.31	114
59	09/23/14 09:20:11	10.80	274.2	1.26	8.31	114
60	09/23/14 09:20:31	10.79	269.2	1.24	8.31	114
61	09/23/14 09:20:51	10.79	264.4	1.21	8.31	114
62	09/23/14 09:21:11	10.79	256.8	1.20	8.31	114
63	09/23/14 09:21:31	10.79	266.7	1.20	8.31	114
64	09/23/14 09:21:51	10.80	261.5	1.19	8.31	114
65	09/23/14 09:22:11	10.79	267.6	1.18	8.31	114
66	09/23/14 09:22:31	10.80	253.1	1.20	8.30	114
67	09/23/14 09:22:51	10.80	255.4	1.21	8.30	114
68	09/23/14 09:23:11	10.79	256.6	1.19	8.30	114
69	09/23/14 09:23:31	10.78	274.6	1.20	8.30	114
70	09/23/14 09:23:51	10.77	261.6	1.19	8.30	114

MW-34D.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-38s-0914
Volatile bottles preserved by: JB 09/18/14 @ 2725
Sampled by: SF

Date: 9.23.14
Time: 10:25 am
Weather: COOL / Sunny

Top of casing elevation: 644.12 ft
Depth to well bottom: 42.8 ft
Depth to static water level: 30.16 ft
Height of water column, H: 12.64 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.9 gallons
Volume of water evacuated: 2.5 (1.3 wc) gallons
Depth to static water level after purging: 30.16
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: 200 ~~400~~ mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10Am	3	30.28	11.12	7.53	4.39	190	73.2	110.0
2	10:15		30.29	11.58	6.97	2.66	193	14.7	99.6
3	10:18		30.25	11.65	6.97	2.69	193	14.0	98.6
4	10:21		30.29	11.72	6.96	2.76	196	13.1	99.1
5									
6									
7									
8									

Sample color: slightly cloudy
Sample turbidity: mod
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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MW-38S.DAT

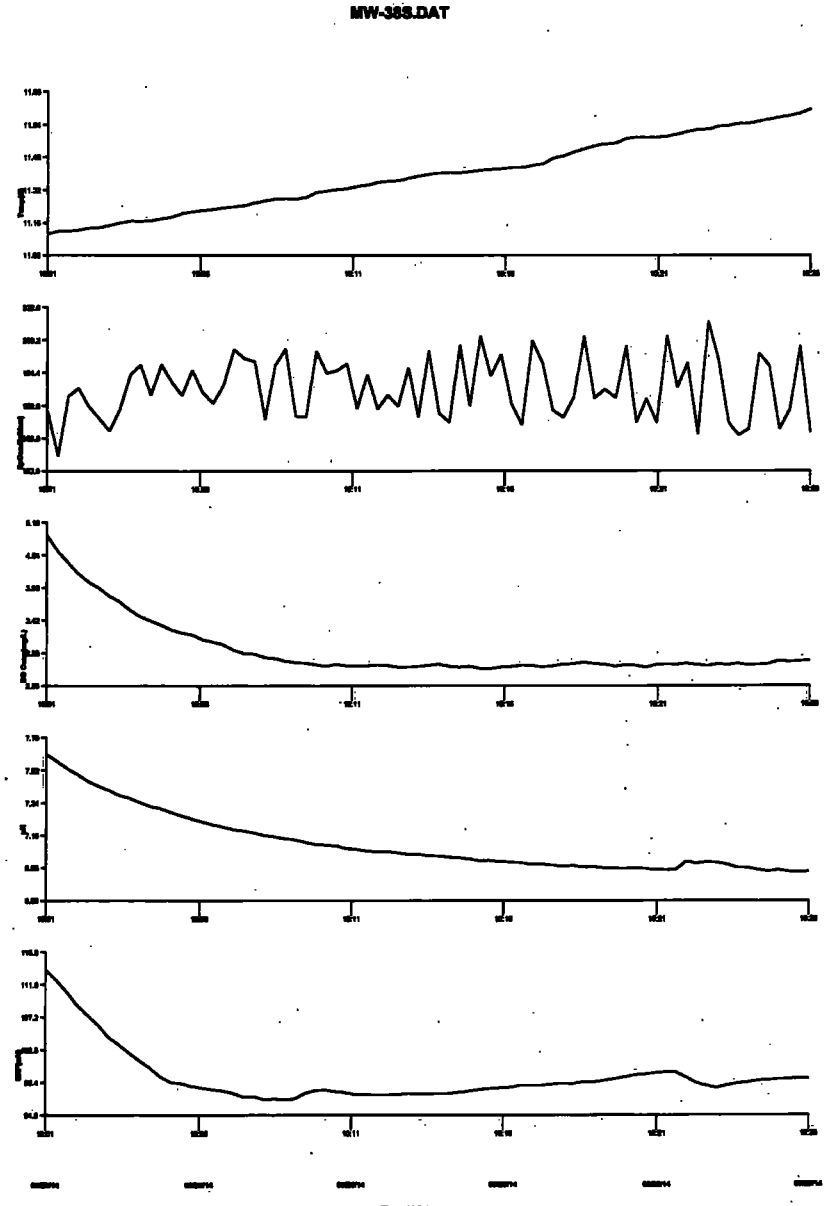
	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/23/14 10:01:35	11.11	177.9	4.86	7.60	113
2	09/23/14 10:01:55	11.12	159.2	4.60	7.57	112
3	09/23/14 10:02:15	11.12	184.5	4.40	7.53	111
4	09/23/14 10:02:35	11.12	187.8	4.22	7.50	109
5	09/23/14 10:02:55	11.13	180.2	4.08	7.46	107
6	09/23/14 10:03:15	11.14	175.0	3.97	7.43	106
7	09/23/14 10:03:35	11.15	169.9	3.83	7.41	105
8	09/23/14 10:03:55	11.16	179.0	3.74	7.38	104
9	09/23/14 10:04:15	11.17	193.4	3.59	7.37	102
10	09/23/14 10:04:35	11.17	197.6	3.48	7.34	101
11	09/23/14 10:04:55	11.17	184.9	3.41	7.32	100
12	09/23/14 10:05:15	11.18	197.7	3.33	7.31	99
13	09/23/14 10:05:35	11.19	190.5	3.25	7.29	98
14	09/23/14 10:05:55	11.21	184.9	3.20	7.27	98
15	09/23/14 10:06:15	11.22	195.3	3.17	7.25	98
16	09/23/14 10:06:35	11.22	186.0	3.09	7.24	98
17	09/23/14 10:06:55	11.23	181.6	3.05	7.22	97
18	09/23/14 10:07:15	11.23	189.2	3.00	7.21	97
19	09/23/14 10:07:35	11.24	204.2	2.91	7.19	97
20	09/23/14 10:07:55	11.24	200.3	2.85	7.18	96
21	09/23/14 10:08:15	11.26	199.0	2.84	7.17	96
22	09/23/14 10:08:35	11.27	174.8	2.78	7.16	96
23	09/23/14 10:08:55	11.28	197.5	2.77	7.15	96
24	09/23/14 10:09:15	11.28	204.3	2.72	7.14	96
25	09/23/14 10:09:35	11.27	176.1	2.70	7.13	96

MW-38S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/23/14 10:09:55	11.28	175.7	2.69	7.12	97
27	09/23/14 10:10:15	11.31	203.4	2.66	7.11	97
28	09/23/14 10:10:35	11.31	194.1	2.64	7.11	97
29	09/23/14 10:10:55	11.32	195.1	2.67	7.10	97
30	09/23/14 10:11:15	11.33	198.1	2.65	7.09	97
31	09/23/14 10:11:35	11.34	179.3	2.64	7.08	97
32	09/23/14 10:11:55	11.34	193.4	2.64	7.07	97
33	09/23/14 10:12:15	11.36	179.1	2.65	7.07	97
34	09/23/14 10:12:35	11.36	185.0	2.65	7.07	97
35	09/23/14 10:12:55	11.36	180.3	2.62	7.06	97
36	09/23/14 10:13:15	11.38	196.2	2.62	7.05	97
37	09/23/14 10:13:35	11.39	175.7	2.63	7.05	97
38	09/23/14 10:13:55	11.40	203.5	2.65	7.04	97
39	09/23/14 10:14:15	11.40	177.3	2.67	7.04	97
40	09/23/14 10:14:35	11.40	173.5	2.64	7.04	97
41	09/23/14 10:14:55	11.40	205.9	2.62	7.03	97
42	09/23/14 10:15:15	11.41	180.5	2.64	7.03	97
43	09/23/14 10:15:35	11.41	209.9	2.60	7.02	97
44	09/23/14 10:15:55	11.42	192.9	2.59	7.02	98
45	09/23/14 10:16:15	11.42	201.9	2.62	7.01	98
46	09/23/14 10:16:35	11.43	181.2	2.63	7.01	98
47	09/23/14 10:16:55	11.43	172.3	2.65	7.01	98
48	09/23/14 10:17:15	11.44	207.8	2.65	7.00	98
49	09/23/14 10:17:35	11.45	198.1	2.62	7.00	98
50	09/23/14 10:17:55	11.47	178.5	2.64	6.99	98

MW-38S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/23/14 10:18:15	11.49	175.5	2.67	6.99	98
52	09/23/14 10:18:35	11.50	184.0	2.68	6.99	98
53	09/23/14 10:18:55	11.52	209.6	2.70	6.98	98
54	09/23/14 10:19:15	11.53	183.7	2.68	6.98	98
55	09/23/14 10:19:35	11.54	187.2	2.67	6.98	99
56	09/23/14 10:19:55	11.55	183.9	2.64	6.98	99
57	09/23/14 10:20:15	11.57	205.5	2.66	6.97	99
58	09/23/14 10:20:35	11.58	173.5	2.65	6.98	99
59	09/23/14 10:20:55	11.57	183.4	2.62	6.97	99
60	09/23/14 10:21:15	11.58	173.3	2.66	6.97	100
61	09/23/14 10:21:35	11.58	209.9	2.67	6.97	100
62	09/23/14 10:21:55	11.59	188.1	2.67	6.97	100
63	09/23/14 10:22:15	11.60	198.3	2.69	7.01	99
64	09/23/14 10:22:35	11.61	168.4	2.66	7.00	98
65	09/23/14 10:22:55	11.62	216.0	2.64	7.01	98
66	09/23/14 10:23:15	11.63	199.9	2.68	7.01	98
67	09/23/14 10:23:35	11.63	173.5	2.66	7.00	98
68	09/23/14 10:23:55	11.64	168.0	2.68	6.98	98
69	09/23/14 10:24:15	11.64	170.6	2.66	6.98	98
70	09/23/14 10:24:35	11.65	202.5	2.67	6.97	99
71	09/23/14 10:24:55	11.67	197.0	2.68	6.96	99
72	09/23/14 10:25:15	11.67	170.7	2.73	6.97	99
73	09/23/14 10:25:35	11.68	178.7	2.72	6.96	99
74	09/23/14 10:25:55	11.69	205.6	2.73	6.96	99
75	09/23/14 10:26:15	11.71	169.2	2.74	6.96	99



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-38d-0914
Volatile bottles preserved by: JR 09/18/14 ascr 2725
Sampled by: SF

Date: 9.23.14
Time: 11:10 am
Weather: cool/sunny

Top of casing elevation: 644.91 ft
Depth to well bottom: 113 ft

Depth to static water level: 16.10 ft
Height of water column, H: 96.9 ft

Diameter of well casing, D: 2 inches
(approx. diameter)

Volume of water column: H ft x .153 gal/ft. Schedule 80 14.8 gallons

Volume of water evacuated: 3 (.20 wc) gallons

Depth to static water level after purging: 16.10
Did well recover? (YES) NO

Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:45		16.17	10.50	8.41	4.84	145	18.7	80.8
2	11		16.17	10.56	7.91	1.20	220	8.36	-10.1
3	11:03		16.17	10.67	7.97	1.10	218	8.74	-11.1
4	11:06		16.17	10.67	7.92	1.07	215	7.93	-12.0
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 45

MW-38d-0712.xls

MW-38D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/23/14 10:47:04	10.46	140.6	5.41	8.48	77
2	09/23/14 10:47:24	10.48	125.0	5.16	8.45	79
3	09/23/14 10:47:44	10.50	150.8	4.85	8.41	80
4	09/23/14 10:48:04	10.51	158.4	4.60	8.37	82
5	09/23/14 10:48:24	10.53	156.6	4.30	8.34	82
6	09/23/14 10:48:44	10.51	131.1	4.02	8.32	81
7	09/23/14 10:49:04	10.52	175.8	3.73	8.30	81
8	09/23/14 10:49:24	10.52	170.9	3.41	8.28	80
9	09/23/14 10:49:44	10.51	186.0	3.22	8.25	79
10	09/23/14 10:50:04	10.51	185.6	3.04	8.23	78
11	09/23/14 10:50:24	10.50	191.1	2.81	8.21	77
12	09/23/14 10:50:44	10.50	187.7	2.69	8.19	75
13	09/23/14 10:51:04	10.48	167.2	2.61	8.17	74
14	09/23/14 10:51:24	10.47	202.7	2.50	8.15	72
15	09/23/14 10:51:44	10.47	175.6	2.41	8.13	71
16	09/23/14 10:52:04	10.47	195.9	2.30	8.11	69
17	09/23/14 10:52:24	10.46	198.1	2.23	8.09	67
18	09/23/14 10:52:44	10.46	194.7	2.13	8.07	66
19	09/23/14 10:53:04	10.45	214.2	2.03	8.05	63
20	09/23/14 10:53:24	10.45	214.9	1.96	8.04	61
21	09/23/14 10:53:44	10.44	213.0	1.91	8.02	59
22	09/23/14 10:54:04	10.44	195.5	1.87	8.01	56
23	09/23/14 10:54:24	10.45	207.0	1.80	8.00	54
24	09/23/14 10:54:44	10.47	183.6	1.74	7.98	51
25	09/23/14 10:55:04	10.49	197.3	1.70	7.97	49
26	09/23/14 10:55:24	10.49	215.3	1.68	7.96	47
27	09/23/14 10:55:44	10.49	213.5	1.62	7.96	45
28	09/23/14 10:56:04	10.50	217.6	1.57	7.95	44
29	09/23/14 10:56:24	10.51	210.1	1.54	7.94	42

Tue Oct 14 12:41:27 2014

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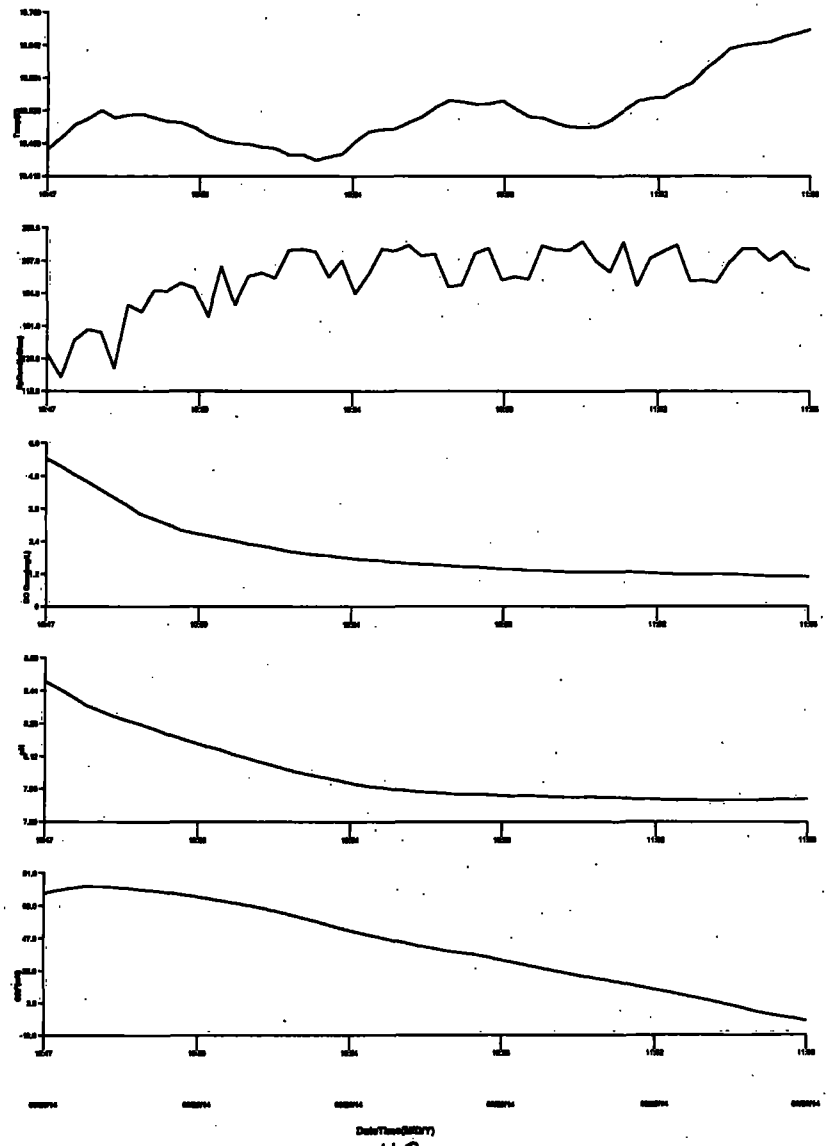
MW-38D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
30	09/23/14 10:56:44	10.53	211.5	1.52	7.94	40
31	09/23/14 10:57:04	10.54	188.5	1.49	7.94	39
32	09/23/14 10:57:24	10.54	189.8	1.46	7.93	37
33	09/23/14 10:57:44	10.54	211.9	1.43	7.93	36
34	09/23/14 10:58:04	10.54	215.5	1.41	7.93	35
35	09/23/14 10:58:24	10.54	193.5	1.37	7.93	32
36	09/23/14 10:58:44	10.53	195.8	1.36	7.93	31
37	09/23/14 10:59:04	10.51	194.1	1.32	7.93	29
38	09/23/14 10:59:24	10.51	217.3	1.32	7.93	27
39	09/23/14 10:59:44	10.50	214.6	1.30	7.92	25
40	09/23/14 11:00:04	10.50	214.1	1.27	7.92	23
41	09/23/14 11:00:24	10.50	220.2	1.27	7.92	22
42	09/23/14 11:00:44	10.50	206.8	1.27	7.92	20
43	09/23/14 11:01:04	10.51	199.2	1.25	7.92	19
44	09/23/14 11:01:24	10.53	220.0	1.27	7.92	17
45	09/23/14 11:01:44	10.54	189.1	1.24	7.91	15
46	09/23/14 11:02:04	10.55	208.6	1.22	7.91	13
47	09/23/14 11:02:24	10.55	213.4	1.20	7.91	11
48	09/23/14 11:02:44	10.56	217.8	1.18	7.91	9
49	09/23/14 11:03:04	10.57	192.7	1.17	7.91	8
50	09/23/14 11:03:24	10.60	193.1	1.16	7.90	6
51	09/23/14 11:03:44	10.61	191.8	1.19	7.90	4
52	09/23/14 11:04:04	10.64	205.7	1.17	7.90	2
53	09/23/14 11:04:24	10.64	215.0	1.16	7.91	0
54	09/23/14 11:04:44	10.65	215.3	1.13	7.90	-2
55	09/23/14 11:05:04	10.65	206.9	1.12	7.91	-4
56	09/23/14 11:05:24	10.66	213.4	1.12	7.91	-6
57	09/23/14 11:05:44	10.66	203.3	1.12	7.91	-7
58	09/23/14 11:06:04	10.67	200.3	1.08	7.91	-9

MW-38D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-2s-0914
Volatile bottles preserved by: JR 09/15/14 0SCT 0725
Sampled by: GP

Date: 9.23.14
Time: 12:30 pm
Weather: warm Sunny

Top of casing elevation: 637.93 ft
Depth to well bottom: 42.3 ft

Depth to static water level: 34.90 (stopped) ft
Height of water column, H: 7.4 or less ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 1.1 gal or less gallons

Volume of water evacuated: 2.5 (2.3 or more) gallons

Depth to static water level after purging: NO STATIC
Did well recover? YES NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:05			10.80	7.35	4.73	348	12.6	-106.6
2	12:20			10.68	7.18	3.17	395	2.28	-79.9
3	12:23			10.67	7.17	3.64	403	1.94	-77.6
4	12:26			10.74	7.15	3.05	405	1.38	-81.1
5									
6									
7									
8									

Sample color: clear
Sample turbidity:
Sample odor: YES NO
PID reading:
Other observations: none
Comments:

Additional comments on methodology, etc.: no static

Signature:

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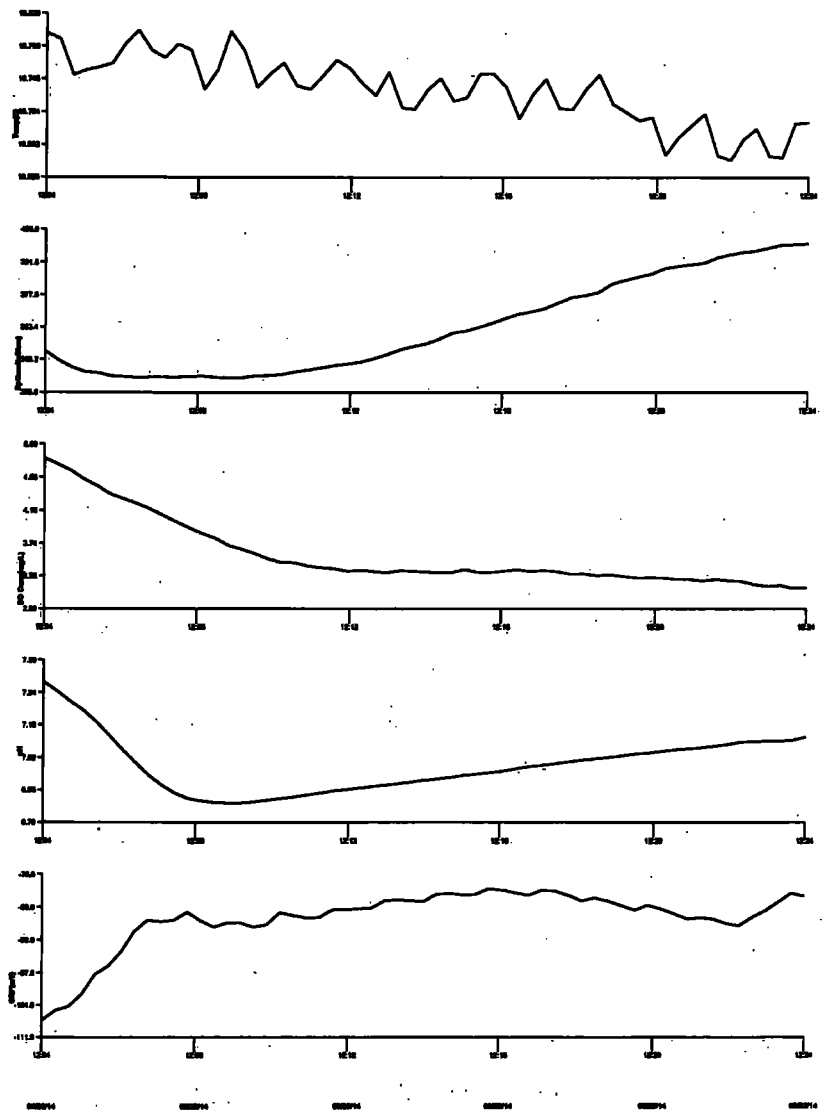
K-2S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/23/14 12:04:44	10.80	352.5	4.82	7.39	-107
2	09/23/14 12:05:04	10.80	348.6	4.73	7.35	-105
3	09/23/14 12:05:24	10.75	345.8	4.65	7.30	-104
4	09/23/14 12:05:44	10.76	343.9	4.55	7.25	-102
5	09/23/14 12:06:04	10.76	343.3	4.47	7.19	-97
6	09/23/14 12:06:24	10.77	341.9	4.36	7.13	-96
7	09/23/14 12:06:44	10.79	341.7	4.31	7.06	-93
8	09/23/14 12:07:04	10.81	341.4	4.24	6.99	-88
9	09/23/14 12:07:24	10.78	341.6	4.18	6.93	-86
10	09/23/14 12:07:44	10.77	341.6	4.10	6.88	-86
11	09/23/14 12:08:04	10.79	341.6	4.01	6.84	-86
12	09/23/14 12:08:24	10.78	341.8	3.94	6.82	-84
13	09/23/14 12:08:44	10.73	341.8	3.86	6.80	-86
14	09/23/14 12:09:04	10.76	341.4	3.80	6.80	-87
15	09/23/14 12:09:24	10.81	341.1	3.71	6.79	-86
16	09/23/14 12:09:44	10.78	341.3	3.66	6.79	-86
17	09/23/14 12:10:04	10.73	342.0	3.60	6.80	-87
18	09/23/14 12:10:24	10.75	342.1	3.53	6.81	-87
19	09/23/14 12:10:44	10.77	342.6	3.49	6.82	-84
20	09/23/14 12:11:04	10.74	343.9	3.49	6.82	-85
21	09/23/14 12:11:24	10.73	344.6	3.44	6.83	-85
22	09/23/14 12:11:44	10.75	345.5	3.42	6.84	-85
23	09/23/14 12:12:04	10.77	346.5	3.41	6.85	-84
24	09/23/14 12:12:24	10.76	347.1	3.38	6.86	-84
25	09/23/14 12:12:44	10.74	348.0	3.39	6.87	-83
26	09/23/14 12:13:04	10.72	349.5	3.37	6.88	-83
27	09/23/14 12:13:24	10.75	351.2	3.36	6.88	-82
28	09/23/14 12:13:44	10.71	353.3	3.38	6.89	-82
29	09/23/14 12:14:04	10.71	354.6	3.37	6.90	-82
30	09/23/14 12:14:24	10.73	355.8	3.37	6.91	-82

K-2S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	09/23/14 12:14:44	10.75	357.9	3.36	6.91	-80
32	09/23/14 12:15:04	10.72	360.6	3.36	6.92	-80
33	09/23/14 12:15:24	10.72	361.5	3.40	6.93	-80
34	09/23/14 12:15:44	10.75	363.1	3.37	6.94	-80
35	09/23/14 12:16:04	10.75	364.9	3.36	6.94	-79
36	09/23/14 12:16:24	10.74	367.0	3.38	6.95	-79
37	09/23/14 12:16:44	10.69	368.9	3.40	6.96	-80
38	09/23/14 12:17:04	10.73	370.1	3.37	6.97	-81
39	09/23/14 12:17:24	10.75	371.5	3.38	6.98	-79
40	09/23/14 12:17:44	10.71	373.9	3.37	6.99	-80
41	09/23/14 12:18:04	10.71	376.3	3.34	7.00	-80
42	09/23/14 12:18:24	10.73	377.0	3.34	7.01	-82
43	09/23/14 12:18:44	10.75	378.4	3.32	7.01	-81
44	09/23/14 12:19:04	10.71	382.3	3.33	7.02	-82
45	09/23/14 12:19:24	10.70	383.8	3.31	7.03	-83
46	09/23/14 12:19:44	10.69	385.2	3.30	7.04	-84
47	09/23/14 12:20:04	10.70	386.5	3.30	7.04	-83
48	09/23/14 12:20:24	10.65	389.0	3.29	7.05	-83
49	09/23/14 12:20:44	10.67	389.9	3.27	7.06	-84
50	09/23/14 12:21:04	10.69	390.6	3.27	7.06	-86
51	09/23/14 12:21:24	10.70	391.3	3.25	7.07	-85
52	09/23/14 12:21:44	10.65	393.7	3.27	7.07	-86
53	09/23/14 12:22:04	10.64	395.0	3.26	7.08	-86
54	09/23/14 12:22:24	10.67	396.0	3.25	7.09	-87
55	09/23/14 12:22:44	10.68	396.5	3.21	7.10	-85
56	09/23/14 12:23:04	10.65	397.8	3.19	7.10	-84
57	09/23/14 12:23:24	10.65	399.1	3.20	7.10	-82
58	09/23/14 12:23:44	10.69	399.3	3.16	7.10	-80
59	09/23/14 12:24:04	10.69	399.8	3.17	7.12	-81

K-2S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-32s-0914
Volatile bottles preserved by: JB 09/25/14 excl 2725
Sampled by: TO

Date: 9-23-14
Time: 1:20 pm
Weather: warm/sunny

Top of casing elevation: 643.55 ft
Depth to well bottom: 30.1 ft
Depth to static water level: 10.50 ft
Height of water column, H: 19.6 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 3 gallons
Volume of water evacuated: 7.5 (1.2 wc) gallons
Depth to static water level after purging: 12.97
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:55		12.23	11.87	7.31	4.27	277	18.7	59.3
2	1:10		12.23	11.49	6.27	3.47	108	2.81	27.6
3	1:13		12.23	11.54	6.23	3.41	104	2.41	34.9
4	1:16		12.23	11.55	6.22	3.41	97	2.62	32.8
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

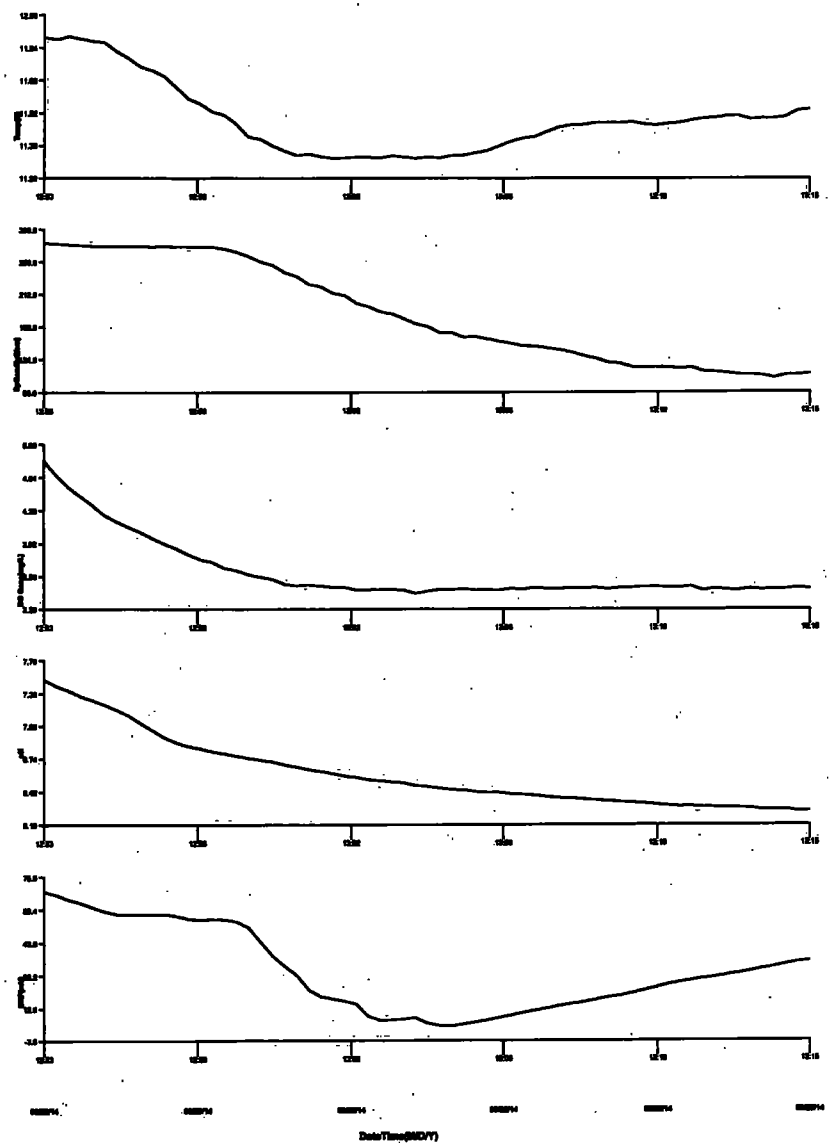
K-32S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/23/14 12:53:51	11.89	281.2	4.81	7.51	68
2	09/23/14 12:54:11	11.88	279.9	4.66	7.45	66
3	09/23/14 12:54:31	11.89	278.7	4.53	7.40	64
4	09/23/14 12:54:51	11.88	277.9	4.43	7.35	62
5	09/23/14 12:55:11	11.87	277.3	4.34	7.31	60
6	09/23/14 12:55:31	11.86	277.1	4.23	7.27	58
7	09/23/14 12:55:51	11.82	276.9	4.16	7.22	57
8	09/23/14 12:56:11	11.79	276.7	4.10	7.16	57
9	09/23/14 12:56:31	11.75	276.7	4.04	7.09	57
10	09/23/14 12:56:51	11.73	276.2	3.98	7.01	57
11	09/23/14 12:57:11	11.70	276.5	3.91	6.94	57
12	09/23/14 12:57:31	11.65	276.4	3.86	6.89	56
13	09/23/14 12:57:51	11.59	276.3	3.80	6.86	55
14	09/23/14 12:58:11	11.56	276.1	3.75	6.83	55
15	09/23/14 12:58:31	11.52	275.8	3.71	6.81	55
16	09/23/14 12:58:51	11.51	273.2	3.65	6.79	55
17	09/23/14 12:59:11	11.46	269.0	3.62	6.76	54
18	09/23/14 12:59:31	11.40	263.4	3.58	6.74	51
19	09/23/14 12:59:51	11.39	256.2	3.55	6.72	44
20	09/23/14 13:00:11	11.36	250.9	3.53	6.71	37
21	09/23/14 13:00:31	11.33	241.2	3.47	6.68	33
22	09/23/14 13:00:51	11.31	235.8	3.46	6.66	28
23	09/23/14 13:01:11	11.32	225.0	3.46	6.63	21
24	09/23/14 13:01:31	11.31	222.0	3.45	6.62	18
25	09/23/14 13:01:51	11.30	213.0	3.44	6.59	17

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/23/14 13:02:11	11.30	210.0	3.44	6.57	16
27	09/23/14 13:02:31	11.30	199.3	3.41	6.56	15
28	09/23/14 13:02:51	11.30	194.8	3.41	6.53	9
29	09/23/14 13:03:11	11.30	187.6	3.41	6.53	7
30	09/23/14 13:03:31	11.31	184.6	3.42	6.51	7
31	09/23/14 13:03:51	11.30	178.1	3.40	6.50	7
32	09/23/14 13:04:11	11.30	171.3	3.37	6.48	8
33	09/23/14 13:04:31	11.30	167.8	3.39	6.47	5
34	09/23/14 13:04:51	11.30	159.2	3.41	6.45	4
35	09/23/14 13:05:11	11.31	159.7	3.41	6.44	4
36	09/23/14 13:05:31	11.31	153.4	3.42	6.44	5
37	09/23/14 13:05:51	11.32	153.8	3.41	6.42	6
38	09/23/14 13:06:11	11.33	151.0	3.41	6.41	7
39	09/23/14 13:06:31	11.36	147.6	3.41	6.41	8
40	09/23/14 13:06:51	11.38	144.9	3.42	6.40	9
41	09/23/14 13:07:11	11.40	141.5	3.41	6.39	10
42	09/23/14 13:07:31	11.40	141.2	3.43	6.38	12
43	09/23/14 13:07:51	11.43	138.7	3.42	6.37	13
44	09/23/14 13:08:11	11.45	136.5	3.42	6.36	14
45	09/23/14 13:08:31	11.46	132.8	3.43	6.36	15
46	09/23/14 13:08:51	11.46	128.3	3.43	6.35	16
47	09/23/14 13:09:11	11.47	124.5	3.43	6.34	17
48	09/23/14 13:09:31	11.47	119.3	3.42	6.33	18
49	09/23/14 13:09:51	11.47	117.9	3.43	6.32	19
50	09/23/14 13:10:11	11.47	113.4	3.43	6.32	20

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/23/14 13:10:31	11.46	112.8	3.44	6.31	21
52	09/23/14 13:10:51	11.46	113.5	3.44	6.30	22
53	09/23/14 13:11:11	11.47	113.0	3.44	6.29	24
54	09/23/14 13:11:31	11.47	111.7	3.43	6.28	25
55	09/23/14 13:11:51	11.48	112.6	3.45	6.28	26
56	09/23/14 13:12:11	11.49	107.6	3.40	6.27	27
57	09/23/14 13:12:31	11.49	106.8	3.42	6.27	27
58	09/23/14 13:12:51	11.50	105.3	3.41	6.27	28
59	09/23/14 13:13:11	11.51	103.1	3.40	6.27	29
60	09/23/14 13:13:31	11.49	103.2	3.42	6.26	30
61	09/23/14 13:13:51	11.49	102.0	3.41	6.25	31
62	09/23/14 13:14:11	11.49	98.6	3.42	6.25	32
63	09/23/14 13:14:31	11.50	102.5	3.42	6.25	33
64	09/23/14 13:14:51	11.53	102.6	3.43	6.23	34
65	09/23/14 13:15:11	11.54	104.3	3.42	6.23	35

K-32S.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-13d-0914
Volatile bottles preserved by: JB 09/15/14 ESC 2725
Sampled by: AP

Date: 9-23-14
Time: 2:20 pm
Weather: warm/sunny

Top of casing elevation: 641.24 ft
Depth to well bottom: 71.9 ft
Depth to static water level: 20.55 ft
Height of water column, H: 51.35 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 7.86 gallons
Volume of water evacuated: 2.5 (.32 w) gallons
Depth to static water level after purging: 23.10
Did well recover? YES NO slow / 80% recovery
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:55		2306	15.14	7.45	4.73	575	11.1	-154.6
2	2:10		24.40	17.12	7.54	1.09	570	6.94	-201.9
3	2:13		24.40	16.97	7.55	1.05	570	6.42	-207.5
4	2:16		24.40	16.86	7.54	.99	568	6.51	-202.9
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.: flowed @ 200 mL/min

Signature:

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K-13d-0914.xls

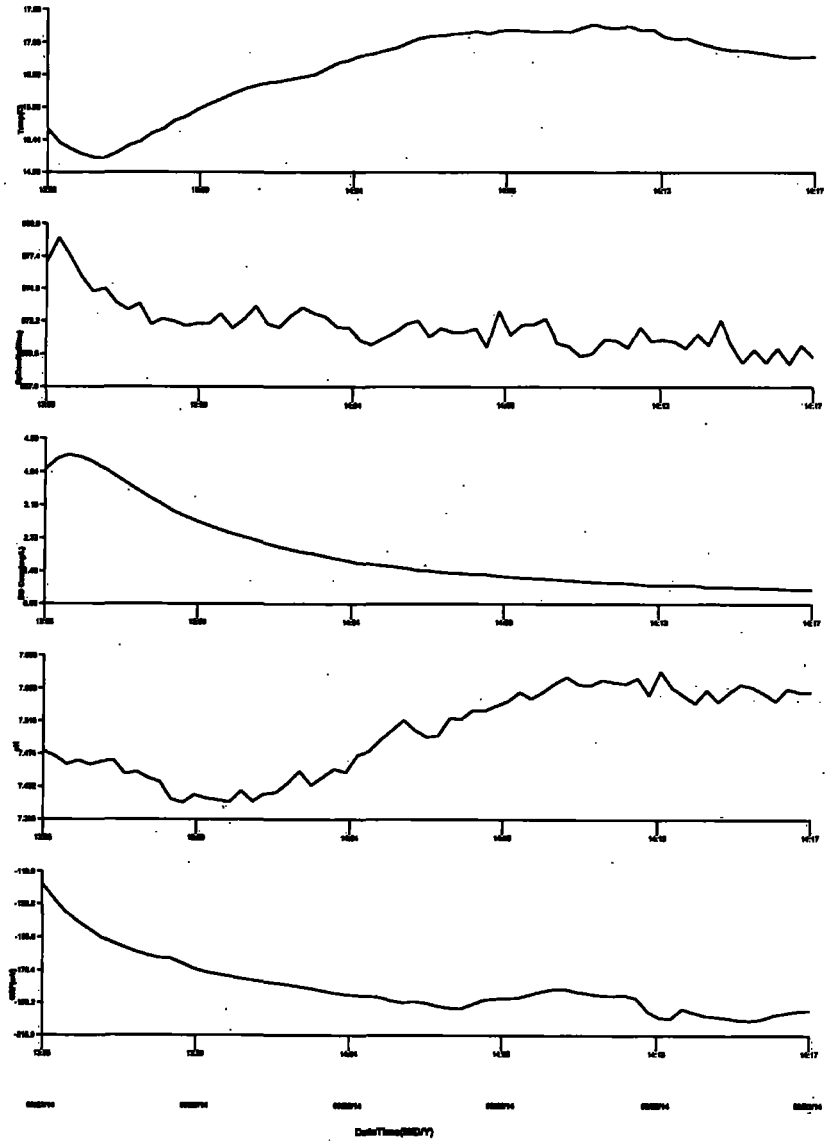
	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/23/14 13:55:25	15.61	577.0	4.10	7.48	-127
2	09/23/14 13:55:45	15.39	578.8	4.36	7.47	-136
3	09/23/14 13:56:05	15.29	577.4	4.47	7.46	-144
4	09/23/14 13:56:25	15.20	575.8	4.41	7.47	-150
5	09/23/14 13:56:45	15.15	574.5	4.30	7.46	-154
6	09/23/14 13:57:05	15.14	574.8	4.13	7.46	-159
7	09/23/14 13:57:25	15.23	573.6	3.93	7.47	-162
8	09/23/14 13:57:45	15.34	573.1	3.74	7.45	-165
9	09/23/14 13:58:05	15.41	573.6	3.56	7.45	-167
10	09/23/14 13:58:25	15.55	571.9	3.36	7.44	-170
11	09/23/14 13:58:45	15.62	572.3	3.20	7.44	-171
12	09/23/14 13:59:05	15.75	572.1	3.02	7.42	-171
13	09/23/14 13:59:25	15.82	571.8	2.89	7.41	-174
14	09/23/14 13:59:45	15.94	572.0	2.76	7.42	-178
15	09/23/14 14:00:05	16.03	571.9	2.64	7.42	-180
16	09/23/14 14:00:25	16.11	572.7	2.53	7.41	-181
17	09/23/14 14:00:45	16.20	571.6	2.43	7.41	-182
18	09/23/14 14:01:05	16.28	572.3	2.35	7.43	-184
19	09/23/14 14:01:25	16.33	573.3	2.26	7.41	-185
20	09/23/14 14:01:45	16.38	572.0	2.17	7.42	-186
21	09/23/14 14:02:05	16.41	571.7	2.09	7.42	-186
22	09/23/14 14:02:25	16.45	572.6	2.02	7.44	-187
23	09/23/14 14:02:45	16.48	573.2	1.95	7.45	-188
24	09/23/14 14:03:05	16.52	572.8	1.91	7.43	-190
25	09/23/14 14:03:25	16.62	572.5	1.84	7.44	-191

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/23/14 14:03:45	16.71	571.7	1.78	7.45	-192
27	09/23/14 14:04:05	16.76	571.7	1.72	7.45	-193
28	09/23/14 14:04:25	16.84	570.7	1.66	7.47	-194
29	09/23/14 14:04:45	16.86	570.3	1.63	7.48	-194
30	09/23/14 14:05:05	16.92	570.8	1.60	7.49	-195
31	09/23/14 14:05:25	16.96	571.3	1.57	7.50	-197
32	09/23/14 14:05:45	17.03	571.9	1.54	7.52	-198
33	09/23/14 14:06:05	17.11	572.2	1.49	7.50	-197
34	09/23/14 14:06:25	17.15	570.9	1.47	7.50	-198
35	09/23/14 14:06:45	17.16	571.6	1.43	7.50	-200
36	09/23/14 14:07:05	17.19	571.3	1.41	7.52	-201
37	09/23/14 14:07:25	17.20	571.3	1.39	7.52	-202
38	09/23/14 14:07:45	17.23	571.6	1.37	7.53	-199
39	09/23/14 14:08:05	17.19	570.1	1.37	7.53	-197
40	09/23/14 14:08:25	17.24	572.9	1.33	7.54	-196
41	09/23/14 14:08:45	17.25	571.1	1.31	7.54	-196
42	09/23/14 14:09:05	17.24	571.9	1.29	7.55	-195
43	09/23/14 14:09:25	17.23	571.9	1.27	7.54	-193
44	09/23/14 14:09:45	17.22	572.4	1.26	7.55	-191
45	09/23/14 14:10:05	17.23	570.5	1.24	7.56	-190
46	09/23/14 14:10:25	17.22	570.2	1.22	7.57	-190
47	09/23/14 14:10:45	17.29	569.4	1.20	7.56	-191
48	09/23/14 14:11:05	17.35	569.6	1.18	7.56	-193
49	09/23/14 14:11:25	17.29	570.7	1.17	7.57	-194
50	09/23/14 14:11:45	17.28	570.7	1.15	7.57	-194

K-13D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/23/14 14:12:05	17.32	570.1	1.14	7.56	-193
52	09/23/14 14:12:25	17.25	571.7	1.13	7.57	-195
53	09/23/14 14:12:45	17.26	570.6	1.09	7.55	-203
54	09/23/14 14:13:05	17.14	570.7	1.09	7.58	-207
55	09/23/14 14:13:25	17.10	570.6	1.10	7.56	-208
56	09/23/14 14:13:45	17.11	570.0	1.09	7.55	-202
57	09/23/14 14:14:05	17.04	571.1	1.08	7.54	-204
58	09/23/14 14:14:25	16.99	570.3	1.05	7.56	-206
59	09/23/14 14:14:45	16.94	572.2	1.05	7.54	-207
60	09/23/14 14:15:05	16.92	570.2	1.05	7.55	-208
61	09/23/14 14:15:25	16.91	568.9	1.03	7.56	-209
62	09/23/14 14:15:45	16.89	569.9	1.03	7.56	-209
63	09/23/14 14:16:05	16.86	568.9	1.01	7.55	-208
64	09/23/14 14:16:25	16.82	570.0	1.01	7.54	-206
65	09/23/14 14:16:45	16.80	568.8	0.99	7.56	-204
66	09/23/14 14:17:05	16.80	570.3	0.98	7.55	-203
67	09/23/14 14:17:25	16.81	569.4	0.98	7.55	-203

K-13D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-123s-0914
Volatile bottles preserved by: HS 09/24/14 ESCI 2725
Sampled by: KF

Date: 9.24-14
Time: 8:45am
Weather: cool

Top of casing elevation: 641.68 ft
Depth to well bottom: 19.9 ft

Depth to static water level: 12.77 ft
Height of water column, H: 7.13 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 1.1 gallons

Volume of water evacuated: 3.6 (3.3 w) gallons

Depth to static water level after purging: 12.77
Did well recover? YES NO

Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:20		12.75	12.36	7.65	6.15	207	3.08	119.6
2	8:35		12.75	12.88	7.50	6.02	227	1.69	120.0
3	8:38		12.75	12.68	7.50	6.05	225	.76	119.9
4	9:41		12.75	12.89	7.47	6.11	223	.62	120.6
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

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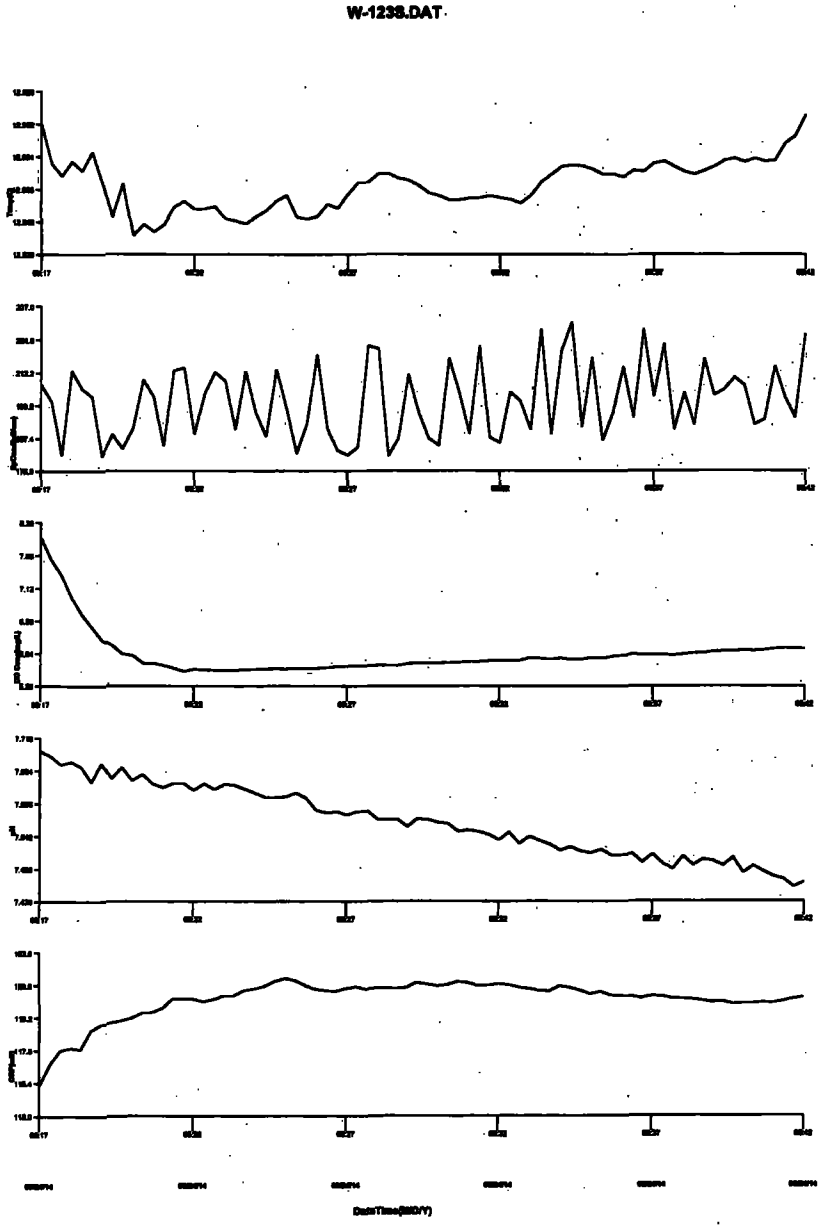
W-123S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/24/14 08:17:47	12.90	207.5	7.94	7.69	116
2	09/24/14 08:18:07	12.88	201.2	7.58	7.68	117
3	09/24/14 08:18:27	12.87	181.1	7.32	7.66	118
4	09/24/14 08:18:47	12.88	212.7	6.96	7.67	118
5	09/24/14 08:19:07	12.88	206.0	6.68	7.66	118
6	09/24/14 08:19:27	12.89	203.0	6.47	7.63	119
7	09/24/14 08:19:47	12.87	180.6	6.25	7.67	119
8	09/24/14 08:20:07	12.85	188.8	6.16	7.64	119
9	09/24/14 08:20:27	12.87	183.4	6.02	7.66	119
10	09/24/14 08:20:47	12.84	190.8	6.00	7.64	119
11	09/24/14 08:21:07	12.85	209.4	5.87	7.65	119
12	09/24/14 08:21:27	12.84	203.0	5.87	7.63	119
13	09/24/14 08:21:47	12.85	184.6	5.83	7.62	120
14	09/24/14 08:22:07	12.86	212.8	5.79	7.63	120
15	09/24/14 08:22:27	12.86	214.0	5.74	7.63	120
16	09/24/14 08:22:47	12.85	188.9	5.77	7.62	120
17	09/24/14 08:23:07	12.85	204.2	5.76	7.63	120
18	09/24/14 08:23:27	12.86	212.3	5.75	7.62	120
19	09/24/14 08:23:47	12.85	208.9	5.76	7.63	120
20	09/24/14 08:24:07	12.85	190.7	5.76	7.63	120
21	09/24/14 08:24:27	12.85	212.6	5.76	7.62	120
22	09/24/14 08:24:47	12.85	196.8	5.77	7.61	120
23	09/24/14 08:25:07	12.85	188.0	5.78	7.61	121
24	09/24/14 08:25:27	12.86	213.3	5.78	7.61	121
25	09/24/14 08:25:47	12.86	198.7	5.78	7.61	121
26	09/24/14 08:26:07	12.85	181.7	5.79	7.62	121
27	09/24/14 08:26:27	12.85	192.9	5.78	7.61	121

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
28	09/24/14 08:26:47	12.85	218.8	5.79	7.59	120
29	09/24/14 08:27:07	12.86	190.9	5.80	7.58	120
30	09/24/14 08:27:27	12.86	182.8	5.82	7.58	120
31	09/24/14 08:27:47	12.86	180.9	5.82	7.58	120
32	09/24/14 08:28:07	12.87	184.0	5.83	7.58	121
33	09/24/14 08:28:27	12.87	222.2	5.83	7.58	120
34	09/24/14 08:28:47	12.87	221.0	5.84	7.57	120
35	09/24/14 08:29:07	12.87	180.7	5.84	7.57	120
36	09/24/14 08:29:27	12.87	187.3	5.83	7.57	120
37	09/24/14 08:29:47	12.87	211.4	5.86	7.56	120
38	09/24/14 08:30:07	12.87	197.6	5.87	7.57	121
39	09/24/14 08:30:27	12.86	187.5	5.87	7.57	121
40	09/24/14 08:30:47	12.86	184.6	5.87	7.56	121
41	09/24/14 08:31:07	12.86	217.4	5.88	7.56	121
42	09/24/14 08:31:27	12.86	204.6	5.89	7.55	121
43	09/24/14 08:31:47	12.86	189.1	5.90	7.55	121
44	09/24/14 08:32:07	12.86	222.2	5.89	7.55	121
45	09/24/14 08:32:27	12.86	187.7	5.91	7.54	121
46	09/24/14 08:32:47	12.86	185.7	5.91	7.54	121
47	09/24/14 08:33:07	12.86	204.7	5.91	7.55	121
48	09/24/14 08:33:27	12.86	201.3	5.92	7.53	120
49	09/24/14 08:33:47	12.86	190.8	5.96	7.54	120
50	09/24/14 08:34:07	12.87	228.5	5.95	7.53	120
51	09/24/14 08:34:27	12.87	188.9	5.94	7.53	120
52	09/24/14 08:34:47	12.88	220.6	5.96	7.52	121
53	09/24/14 08:35:07	12.88	231.0	5.93	7.52	120
54	09/24/14 08:35:27	12.88	191.7	5.93	7.52	120

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
55	09/24/14 08:35:47	12.88	217.8	5.97	7.51	120
56	09/24/14 08:36:07	12.87	186.6	5.96	7.52	120
57	09/24/14 08:36:27	12.87	197.2	5.98	7.51	120
58	09/24/14 08:36:47	12.87	214.4	6.00	7.51	120
59	09/24/14 08:37:07	12.88	195.2	6.02	7.51	120
60	09/24/14 08:37:27	12.88	228.5	6.01	7.50	120
61	09/24/14 08:37:47	12.88	203.2	6.01	7.51	120
62	09/24/14 08:38:07	12.88	222.9	6.01	7.49	120
63	09/24/14 08:38:27	12.88	190.8	6.00	7.49	120
64	09/24/14 08:38:47	12.88	204.6	6.02	7.51	120
65	09/24/14 08:39:07	12.87	192.4	6.04	7.49	120
66	09/24/14 08:39:27	12.88	217.5	6.04	7.50	120
67	09/24/14 08:39:47	12.88	203.8	6.06	7.50	120
68	09/24/14 08:40:07	12.88	205.8	6.06	7.49	120
69	09/24/14 08:40:27	12.88	210.5	6.07	7.51	120
70	09/24/14 08:40:47	12.88	207.2	6.08	7.48	120
71	09/24/14 08:41:07	12.88	192.5	6.07	7.49	120
72	09/24/14 08:41:27	12.88	194.5	6.09	7.48	120
73	09/24/14 08:41:47	12.88	214.6	6.11	7.47	120
74	09/24/14 08:42:07	12.89	202.8	6.12	7.47	120
75	09/24/14 08:42:27	12.90	195.2	6.11	7.45	120
76	09/24/14 08:42:47	12.91	226.6	6.11	7.46	120



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-123d-0914
Volatile bottles preserved by: JB 09/18/14 0SCE 2725
Sampled by: AP

Date: 9-24-14
Time: 10:05 am
Weather: cool

Top of casing elevation: 641.34 ft
Depth to well bottom: 118 ft
Depth to static water level: 9.72 ft
Height of water column, H: 108.28 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 16.6 gallons
Volume of water evacuated: 3 (.18 wc) gallons
Depth to static water level after purging: 9.72
Did well recover? (YES) NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:40		9.80	11.69	8.43	6.07	283	19.0	106.8
2	9:55		9.80	11.18	7.23	1.96	276	2.76	-62.1
3	9:58		9.80	11.15	7.24	1.78	276	2.66	-67.3
4	10:01		9.80	11.15	7.25	1.68	276	2.81	-71.2
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 68

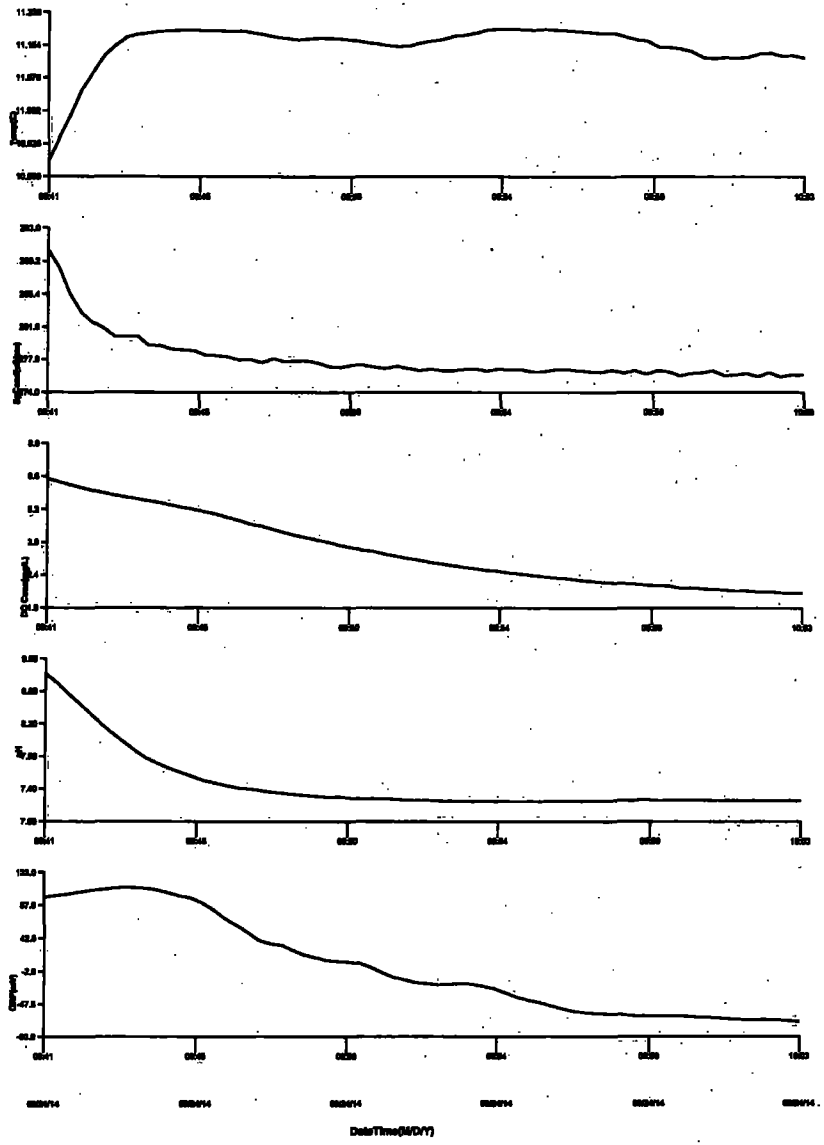
W-1234.0912.xls

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/24/14 09:41:26	10.88	290.6	6.52	8.83	100
2	09/24/14 09:41:46	10.94	288.5	6.38	8.71	102
3	09/24/14 09:42:06	10.99	285.4	6.26	8.58	104
4	09/24/14 09:42:26	11.05	283.2	6.13	8.46	106
5	09/24/14 09:42:46	11.09	282.1	6.01	8.33	109
6	09/24/14 09:43:06	11.13	281.3	5.90	8.19	110
7	09/24/14 09:43:26	11.16	280.3	5.80	8.07	112
8	09/24/14 09:43:46	11.17	280.4	5.72	7.97	113
9	09/24/14 09:44:06	11.18	280.4	5.64	7.86	113
10	09/24/14 09:44:26	11.18	279.3	5.56	7.77	112
11	09/24/14 09:44:46	11.19	279.3	5.49	7.70	110
12	09/24/14 09:45:06	11.19	278.9	5.38	7.64	106
13	09/24/14 09:45:26	11.19	278.8	5.28	7.59	101
14	09/24/14 09:45:46	11.19	278.7	5.20	7.54	99
15	09/24/14 09:46:06	11.19	278.1	5.09	7.49	92
16	09/24/14 09:46:26	11.19	278.1	4.98	7.46	82
17	09/24/14 09:46:46	11.19	277.9	4.85	7.43	70
18	09/24/14 09:47:06	11.19	277.6	4.72	7.40	61
19	09/24/14 09:47:26	11.18	277.6	4.57	7.38	51
20	09/24/14 09:47:46	11.18	277.3	4.47	7.36	40
21	09/24/14 09:48:06	11.17	277.7	4.33	7.35	35
22	09/24/14 09:48:26	11.17	277.4	4.19	7.33	33
23	09/24/14 09:48:46	11.17	277.5	4.07	7.32	26
24	09/24/14 09:49:06	11.17	277.5	3.97	7.30	19
25	09/24/14 09:49:26	11.17	277.2	3.87	7.30	16

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/24/14 09:49:46	11.17	276.8	3.76	7.28	12
27	09/24/14 09:50:06	11.17	276.7	3.64	7.29	11
28	09/24/14 09:50:26	11.17	277.0	3.54	7.27	10
29	09/24/14 09:50:46	11.16	277.0	3.41	7.26	8
30	09/24/14 09:51:06	11.16	276.7	3.36	7.27	2
31	09/24/14 09:51:26	11.15	276.6	3.23	7.26	-5
32	09/24/14 09:51:46	11.15	276.9	3.16	7.25	-12
33	09/24/14 09:52:06	11.15	276.6	3.06	7.25	-15
34	09/24/14 09:52:26	11.16	276.4	2.99	7.25	-19
35	09/24/14 09:52:46	11.16	276.5	2.90	7.24	-21
36	09/24/14 09:53:06	11.17	276.4	2.83	7.24	-22
37	09/24/14 09:53:26	11.18	276.3	2.76	7.23	-22
38	09/24/14 09:53:46	11.18	276.5	2.68	7.23	-21
39	09/24/14 09:54:06	11.18	276.6	2.62	7.23	-22
40	09/24/14 09:54:26	11.19	276.3	2.56	7.23	-24
41	09/24/14 09:54:46	11.19	276.5	2.52	7.23	-28
42	09/24/14 09:55:06	11.19	276.5	2.46	7.23	-34
43	09/24/14 09:55:26	11.19	276.5	2.41	7.23	-39
44	09/24/14 09:55:46	11.19	276.2	2.35	7.23	-44
45	09/24/14 09:56:06	11.19	276.3	2.30	7.23	-47
46	09/24/14 09:56:26	11.19	276.5	2.25	7.23	-51
47	09/24/14 09:56:46	11.19	276.5	2.21	7.23	-56
48	09/24/14 09:57:06	11.19	276.4	2.16	7.23	-59
49	09/24/14 09:57:26	11.18	276.2	2.11	7.23	-61
50	09/24/14 09:57:46	11.18	276.2	2.06	7.24	-62

W-123D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/24/14 09:58:06	11.18	276.4	2.04	7.24	-63
52	09/24/14 09:58:26	11.18	276.1	2.01	7.25	-64
53	09/24/14 09:58:46	11.17	276.4	1.98	7.24	-65
54	09/24/14 09:59:06	11.16	276.0	1.95	7.25	-66
55	09/24/14 09:59:26	11.15	276.4	1.91	7.24	-66
56	09/24/14 09:59:46	11.15	276.2	1.90	7.24	-66
57	09/24/14 10:00:06	11.15	275.8	1.81	7.25	-66
58	09/24/14 10:00:26	11.14	276.0	1.81	7.25	-67
59	09/24/14 10:00:46	11.12	276.1	1.78	7.25	-68
60	09/24/14 10:01:06	11.12	276.3	1.75	7.24	-68
61	09/24/14 10:01:26	11.13	275.8	1.72	7.24	-69
62	09/24/14 10:01:46	11.12	275.9	1.69	7.25	-70
63	09/24/14 10:02:06	11.13	276.0	1.68	7.24	-71
64	09/24/14 10:02:26	11.13	275.7	1.64	7.24	-71
65	09/24/14 10:02:46	11.14	276.1	1.64	7.24	-71
66	09/24/14 10:03:06	11.13	275.6	1.61	7.24	-72
67	09/24/14 10:03:26	11.13	275.9	1.59	7.24	-73
68	09/24/14 10:03:46	11.12	275.9	1.59	7.24	-74



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: OW-3-0914
Volatile bottles preserved by: JB 09/18/14 0842 2725
Sampled by: [illegible]

Date: 5.24.14
Time: 10:15 am
Weather: cool

Top of casing elevation: 641.4 ft
Depth to well bottom: 89.9 ft
Depth to static water level: 17.45 ft
Height of water column, H: 71.45 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 11.8 gallons
Volume of water evacuated: 3 .25wc gallons
Depth to static water level after purging: 17.42
Did well recover? (YES) NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:26		14.60	11.26	7.33	4.31	290	55.4	29.2
2	10:35		14.75	11.45	7.41	1.20	987	54.3	-161.5
3	10:38		14.75	11.44	7.42	1.16	3.88	55.3	-155.7
4	10:41		14.75	11.43	7.43	1.08	3.89	58.7	-163.2
5									
6									
7									
8									

Sample color: clear
Sample turbidity: mod
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

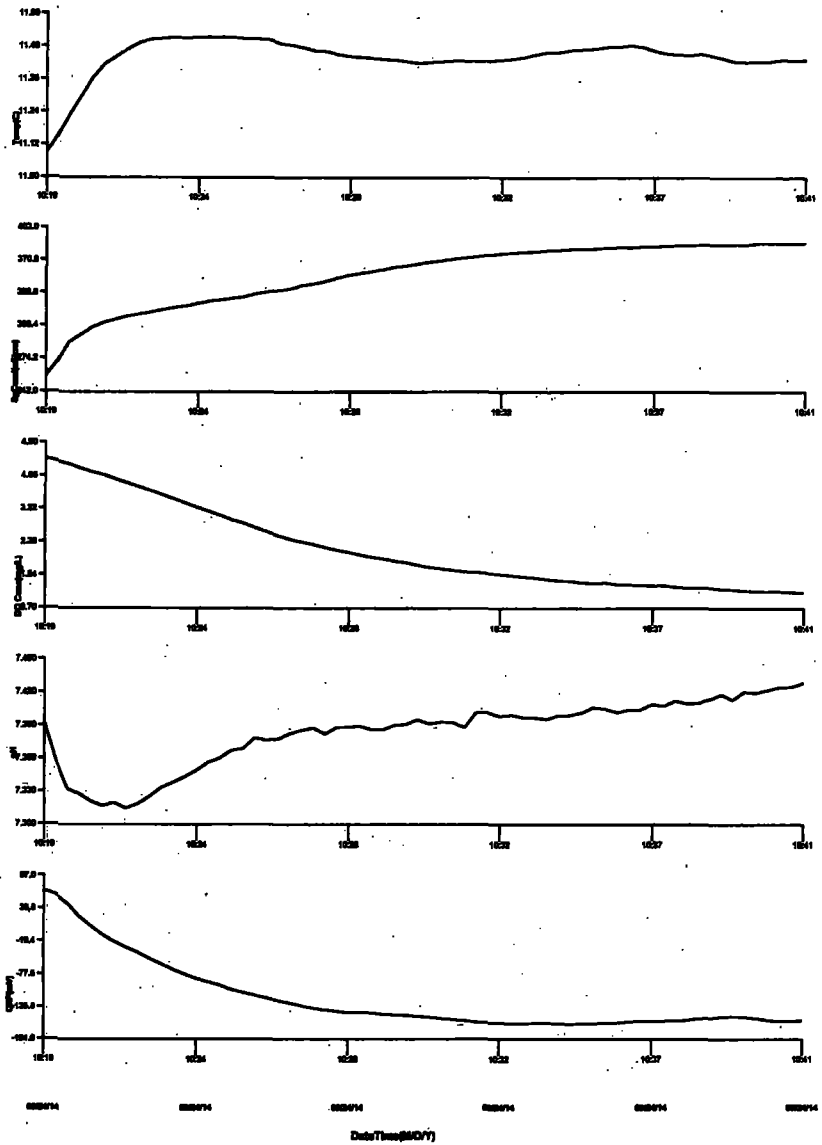
OW-3.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/24/14 10:19:48	11.08	255.5	4.53	7.39	72
2	09/24/14 10:20:08	11.15	269.6	4.46	7.36	66
3	09/24/14 10:20:28	11.23	289.1	4.39	7.33	49
4	09/24/14 10:20:48	11.30	296.3	4.28	7.33	27
5	09/24/14 10:21:08	11.37	303.9	4.19	7.32	10
6	09/24/14 10:21:28	11.42	308.8	4.11	7.32	-6
7	09/24/14 10:21:48	11.44	312.1	4.00	7.32	-19
8	09/24/14 10:22:08	11.47	314.9	3.90	7.31	-30
9	09/24/14 10:22:28	11.50	317.2	3.80	7.32	-39
10	09/24/14 10:22:48	11.51	319.2	3.70	7.32	-50
11	09/24/14 10:23:08	11.51	321.6	3.60	7.33	-59
12	09/24/14 10:23:28	11.52	323.7	3.48	7.34	-70
13	09/24/14 10:23:48	11.51	325.2	3.37	7.34	-78
14	09/24/14 10:24:08	11.52	327.7	3.26	7.35	-86
15	09/24/14 10:24:28	11.52	330.0	3.15	7.36	-92
16	09/24/14 10:24:48	11.52	331.4	3.05	7.36	-98
17	09/24/14 10:25:08	11.52	333.1	2.92	7.37	-106
18	09/24/14 10:25:28	11.51	334.7	2.84	7.37	-111
19	09/24/14 10:25:48	11.51	337.6	2.73	7.38	-116
20	09/24/14 10:26:08	11.51	339.5	2.62	7.38	-121
21	09/24/14 10:26:28	11.49	341.3	2.52	7.38	-126
22	09/24/14 10:26:48	11.49	343.0	2.43	7.38	-130
23	09/24/14 10:27:08	11.48	346.3	2.36	7.39	-135
24	09/24/14 10:27:28	11.47	347.9	2.30	7.39	-139
25	09/24/14 10:27:48	11.46	350.4	2.23	7.38	-143

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/24/14 10:28:08	11.45	353.7	2.16	7.39	-145
27	09/24/14 10:28:28	11.45	356.6	2.10	7.39	-148
28	09/24/14 10:28:48	11.44	358.3	2.03	7.39	-148
29	09/24/14 10:29:08	11.44	360.2	1.97	7.39	-149
30	09/24/14 10:29:28	11.43	362.2	1.93	7.39	-151
31	09/24/14 10:29:48	11.43	364.8	1.88	7.39	-152
32	09/24/14 10:30:08	11.43	365.7	1.84	7.39	-153
33	09/24/14 10:30:28	11.42	368.0	1.78	7.40	-155
34	09/24/14 10:30:48	11.42	369.8	1.72	7.39	-156
35	09/24/14 10:31:08	11.43	371.2	1.68	7.39	-159
36	09/24/14 10:31:28	11.43	373.0	1.64	7.39	-161
37	09/24/14 10:31:48	11.43	374.3	1.61	7.39	-163
38	09/24/14 10:32:08	11.43	375.6	1.59	7.40	-165
39	09/24/14 10:32:28	11.43	377.2	1.55	7.40	-166
40	09/24/14 10:32:48	11.43	378.4	1.54	7.40	-167
41	09/24/14 10:33:08	11.44	379.2	1.50	7.40	-168
42	09/24/14 10:33:28	11.44	380.0	1.48	7.40	-168
43	09/24/14 10:33:48	11.45	380.6	1.44	7.40	-168
44	09/24/14 10:34:08	11.46	381.6	1.41	7.40	-168
45	09/24/14 10:34:28	11.46	382.0	1.37	7.40	-168
46	09/24/14 10:34:48	11.47	383.0	1.37	7.40	-169
47	09/24/14 10:35:08	11.47	383.2	1.33	7.40	-169
48	09/24/14 10:35:28	11.48	383.4	1.30	7.41	-168
49	09/24/14 10:35:48	11.48	384.3	1.32	7.41	-168
50	09/24/14 10:36:08	11.48	384.6	1.28	7.40	-167

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/24/14 10:36:28	11.49	384.5	1.27	7.40	-165
52	09/24/14 10:36:48	11.48	385.6	1.26	7.40	-164
53	09/24/14 10:37:08	11.47	385.8	1.25	7.41	-164
54	09/24/14 10:37:28	11.46	386.1	1.25	7.41	-164
55	09/24/14 10:37:48	11.45	386.4	1.22	7.41	-163
56	09/24/14 10:38:08	11.45	386.7	1.19	7.41	-162
57	09/24/14 10:38:28	11.46	387.3	1.18	7.41	-159
58	09/24/14 10:38:48	11.45	387.5	1.18	7.41	-158
59	09/24/14 10:39:08	11.44	387.6	1.16	7.42	-156
60	09/24/14 10:39:28	11.43	388.0	1.15	7.41	-156
61	09/24/14 10:39:48	11.43	387.8	1.12	7.42	-156
62	09/24/14 10:40:08	11.43	389.0	1.11	7.42	-158
63	09/24/14 10:40:28	11.43	389.0	1.10	7.42	-162
64	09/24/14 10:40:48	11.43	388.8	1.10	7.43	-164
65	09/24/14 10:41:08	11.43	388.7	1.07	7.43	-163
66	09/24/14 10:41:28	11.43	389.0	1.07	7.43	-163

OW-3.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-16s-0914
Volatile bottles preserved by: DR 09/12/14 0821 2725
Sampled by: TF

Date: 9.24.14
Time: 11:30 am
Weather: cool

Top of casing elevation: 626.53 ft
Depth to well bottom: 25.6 ft
Depth to static water level: 17.21 ft
Height of water column, H: 8.39 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.28 gallons
Volume of water evacuated: 2.5 2.0 vc gallons
Depth to static water level after purging: 17.21
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:09		17.40	12.15	8.26	3.15	282	10.75	97.9
2	11:20		17.32	12.37	7.76	1.18	286	1.37	-75.1
3	11:23		17.32	12.38	7.75	1.16	286	1.07	-82.0
4	11:26		17.32	12.40	7.74	1.09	289	.92	-90.4
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

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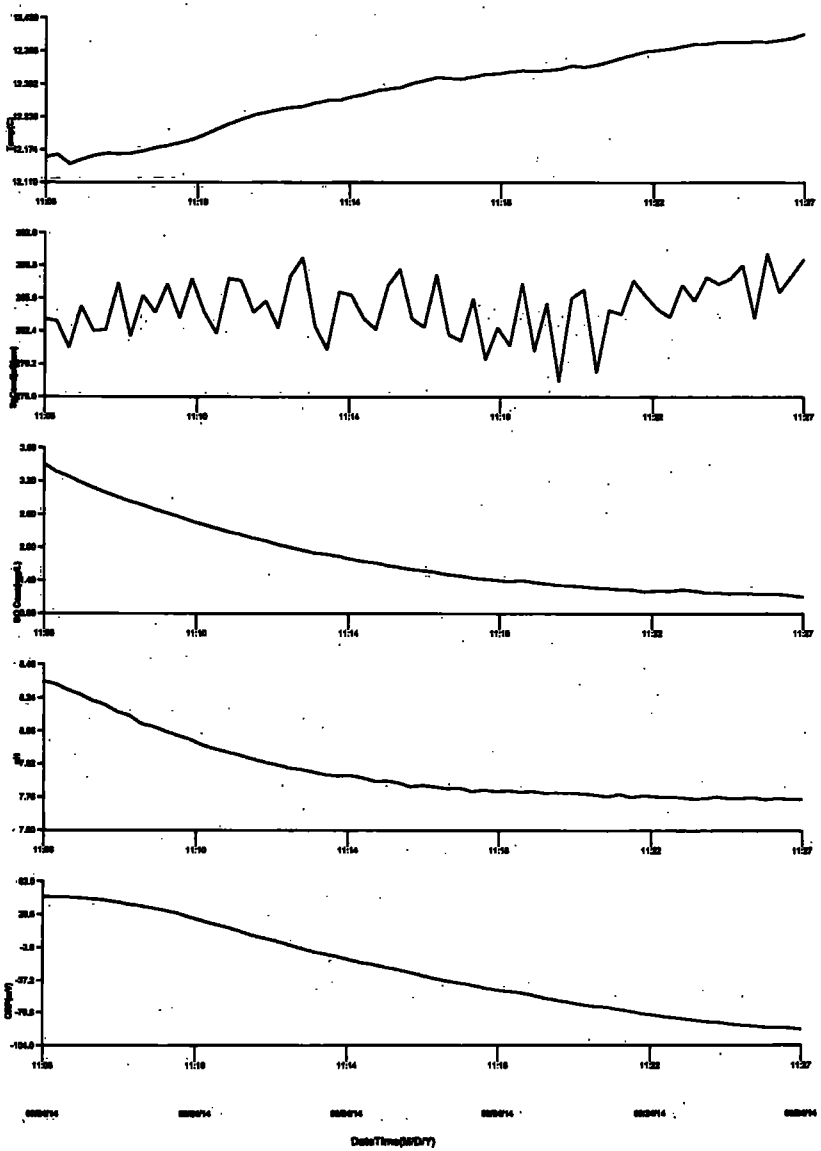
MW-16S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/24/14 11:06:27	12.16	283.5	3.53	8.33	48
2	09/24/14 11:06:47	12.16	283.3	3.39	8.31	48
3	09/24/14 11:07:07	12.14	280.7	3.30	8.28	48
4	09/24/14 11:07:27	12.15	284.8	3.18	8.26	47
5	09/24/14 11:07:47	12.16	282.4	3.09	8.23	46
6	09/24/14 11:08:07	12.16	282.4	3.01	8.21	45
7	09/24/14 11:08:27	12.16	287.1	2.92	8.18	43
8	09/24/14 11:08:47	12.16	281.8	2.84	8.16	41
9	09/24/14 11:09:07	12.17	285.8	2.77	8.12	39
10	09/24/14 11:09:27	12.18	284.1	2.69	8.10	37
11	09/24/14 11:09:47	12.18	287.0	2.63	8.08	34
12	09/24/14 11:10:07	12.19	283.6	2.56	8.06	31
13	09/24/14 11:10:27	12.19	287.5	2.47	8.04	27
14	09/24/14 11:10:47	12.20	284.2	2.40	8.01	24
15	09/24/14 11:11:07	12.21	282.1	2.35	7.99	20
16	09/24/14 11:11:27	12.22	287.5	2.28	7.98	17
17	09/24/14 11:11:47	12.23	287.3	2.23	7.96	13
18	09/24/14 11:12:07	12.24	284.2	2.16	7.94	9
19	09/24/14 11:12:27	12.25	285.3	2.11	7.93	6
20	09/24/14 11:12:47	12.25	282.6	2.04	7.91	3
21	09/24/14 11:13:07	12.26	287.7	1.99	7.90	-1
22	09/24/14 11:13:27	12.26	289.6	1.94	7.89	-5
23	09/24/14 11:13:47	12.27	282.8	1.89	7.88	-8
24	09/24/14 11:14:07	12.27	280.5	1.86	7.86	-11
25	09/24/14 11:14:27	12.27	286.2	1.82	7.86	-13
26	09/24/14 11:14:47	12.28	285.9	1.77	7.86	-16
27	09/24/14 11:15:07	12.28	283.6	1.73	7.85	-19
28	09/24/14 11:15:27	12.29	282.4	1.70	7.83	-21
29	09/24/14 11:15:47	12.29	286.9	1.65	7.83	-24
30	09/24/14 11:16:07	12.30	288.5	1.62	7.82	-27
31	09/24/14 11:16:27	12.30	283.5	1.58	7.81	-30
32	09/24/14 11:16:47	12.31	282.7	1.56	7.81	-33

MW-16S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	09/24/14 11:17:07	12.32	287.9	1.53	7.80	-36
34	09/24/14 11:17:27	12.31	281.9	1.48	7.80	-39
35	09/24/14 11:17:47	12.31	281.3	1.46	7.80	-41
36	09/24/14 11:18:07	12.32	285.5	1.43	7.78	-43
37	09/24/14 11:18:27	12.32	279.5	1.40	7.79	-45
38	09/24/14 11:18:47	12.32	282.6	1.38	7.78	-48
39	09/24/14 11:19:07	12.33	280.9	1.36	7.79	-49
40	09/24/14 11:19:27	12.33	287.0	1.38	7.78	-51
41	09/24/14 11:19:47	12.33	280.4	1.34	7.78	-53
42	09/24/14 11:20:07	12.33	285.1	1.32	7.77	-56
43	09/24/14 11:20:27	12.33	277.4	1.29	7.78	-59
44	09/24/14 11:20:47	12.34	285.6	1.28	7.78	-61
45	09/24/14 11:21:07	12.34	286.4	1.26	7.77	-64
46	09/24/14 11:21:27	12.34	278.3	1.24	7.77	-65
47	09/24/14 11:21:47	12.35	284.4	1.23	7.76	-66
48	09/24/14 11:22:07	12.35	284.0	1.21	7.77	-69
49	09/24/14 11:22:27	12.36	287.3	1.21	7.75	-71
50	09/24/14 11:22:47	12.37	285.8	1.17	7.76	-73
51	09/24/14 11:23:07	12.37	284.5	1.18	7.76	-75
52	09/24/14 11:23:27	12.37	283.7	1.18	7.76	-77
53	09/24/14 11:23:47	12.38	286.9	1.20	7.75	-78
54	09/24/14 11:24:07	12.38	285.3	1.19	7.75	-80
55	09/24/14 11:24:27	12.38	287.6	1.15	7.75	-82
56	09/24/14 11:24:47	12.39	287.0	1.15	7.76	-82
57	09/24/14 11:25:07	12.39	287.5	1.14	7.75	-84
58	09/24/14 11:25:27	12.38	288.9	1.14	7.75	-85
59	09/24/14 11:25:47	12.39	283.5	1.14	7.75	-86
60	09/24/14 11:26:07	12.39	290.1	1.14	7.74	-87
61	09/24/14 11:26:27	12.39	286.1	1.12	7.75	-88
62	09/24/14 11:26:47	12.39	287.8	1.10	7.75	-88
63	09/24/14 11:27:07	12.40	289.5	1.08	7.74	-90

MW-16S.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-16d-0914
Volatile bottles preserved by: SB 09/18/14 OSCI 2725
Sampled by: SP

Date: 9.24.14
Time: 12:10 pm
Weather: 100% Sunny

Top of casing elevation: 626.33 ft
Depth to well bottom: 99 ft
Depth to static water level: 2.05 ft
Height of water column, H: 96.95 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 14.8 gallons
Volume of water evacuated: 3.5 .24uc gallons
Depth to static water level after purging: 2.05
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond GS/cm	Turbidity NTU	ORP mV
1	11:45		2.15	12.13	8.27	2.56	212	96.1	-25.1
2	12		2.17	11.78	7.60	.77	231	14.0	-31.3
3	12:03		2.16	11.79	7.61	.76	223	11.9	-28.3
4	12:06		2.16	11.79	7.61	.73	239	11.6	-22.9
5									
6									
7									
8									

Sample color: clear
Sample turbidity: mod
Sample odor: YES NO
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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MW-16D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/24/14 11:45:21	11.82	218.0	3.37	8.43	-21
2	09/24/14 11:45:41	11.98	226.2	3.11	8.39	-22
3	09/24/14 11:46:01	12.06	223.3	2.88	8.35	-23
4	09/24/14 11:46:21	12.10	219.6	2.66	8.31	-24
5	09/24/14 11:46:41	12.12	212.7	2.45	8.27	-25
6	09/24/14 11:47:01	12.10	208.1	2.31	8.22	-26
7	09/24/14 11:47:21	12.07	224.1	2.16	8.17	-26
8	09/24/14 11:47:41	12.06	223.8	2.06	8.12	-26
9	09/24/14 11:48:01	12.04	218.4	1.93	8.06	-25
10	09/24/14 11:48:21	12.03	226.9	1.82	8.01	-23
11	09/24/14 11:48:41	12.02	202.2	1.74	7.97	-22
12	09/24/14 11:49:01	12.01	225.3	1.67	7.93	-21
13	09/24/14 11:49:21	12.00	214.2	1.59	7.89	-20
14	09/24/14 11:49:41	11.99	225.6	1.53	7.86	-20
15	09/24/14 11:50:01	11.97	213.2	1.47	7.81	-18
16	09/24/14 11:50:21	11.97	204.0	1.42	7.79	-18
17	09/24/14 11:50:41	11.94	227.0	1.36	7.77	-19
18	09/24/14 11:51:01	11.95	232.8	1.31	7.75	-20
19	09/24/14 11:51:21	11.95	207.4	1.26	7.73	-20
20	09/24/14 11:51:41	11.94	224.6	1.23	7.72	-20
21	09/24/14 11:52:01	11.94	210.2	1.19	7.70	-18
22	09/24/14 11:52:21	11.93	208.2	1.17	7.69	-17
23	09/24/14 11:52:41	11.92	210.4	1.12	7.67	-16
24	09/24/14 11:53:01	11.91	216.1	1.10	7.67	-14
25	09/24/14 11:53:21	11.90	209.9	1.08	7.66	-13

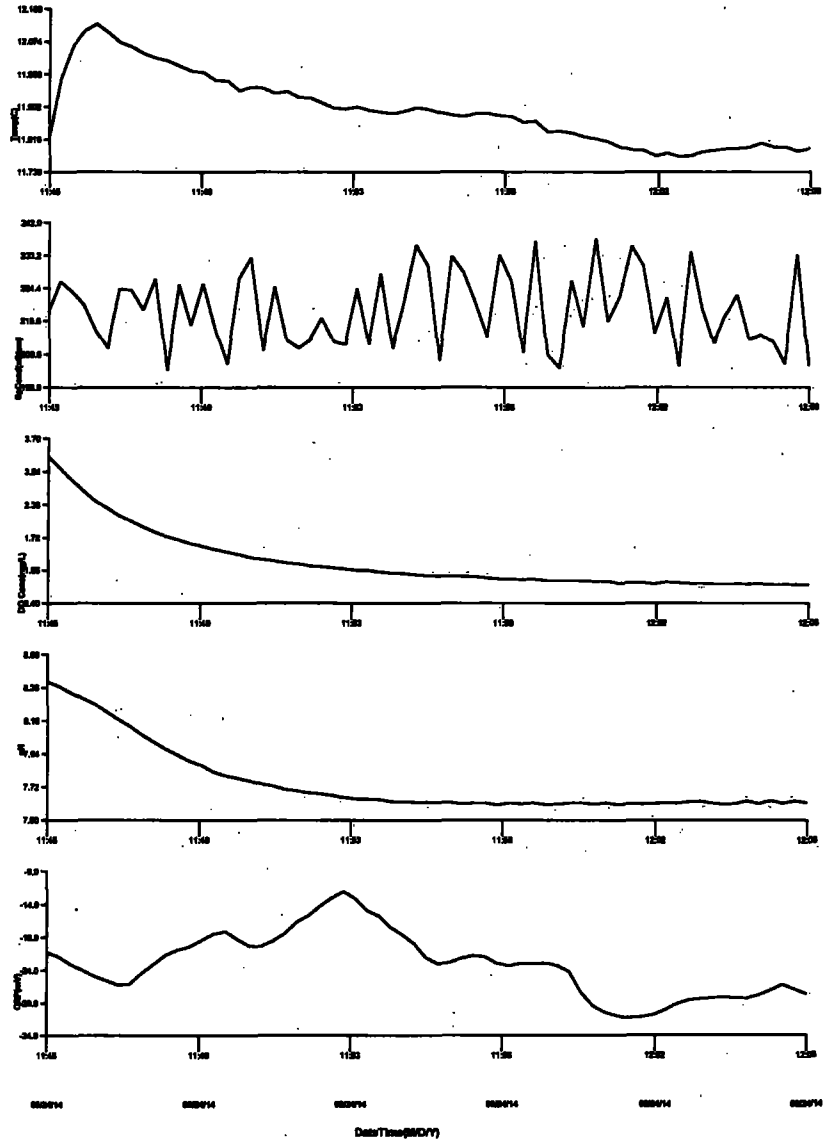
MW-16D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/24/14 11:53:41	11.89	209.1	1.06	7.64	-12
27	09/24/14 11:54:01	11.90	224.2	1.03	7.63	-13
28	09/24/14 11:54:21	11.89	209.2	1.03	7.63	-15
29	09/24/14 11:54:41	11.89	228.4	1.00	7.63	-16
30	09/24/14 11:55:01	11.88	208.1	0.98	7.61	-17
31	09/24/14 11:55:21	11.89	221.0	0.98	7.61	-19
32	09/24/14 11:55:41	11.90	236.2	0.95	7.61	-20
33	09/24/14 11:56:01	11.89	230.6	0.93	7.61	-22
34	09/24/14 11:56:21	11.88	204.9	0.92	7.61	-23
35	09/24/14 11:56:41	11.88	233.1	0.91	7.61	-23
36	09/24/14 11:57:01	11.87	228.7	0.91	7.60	-22
37	09/24/14 11:57:21	11.88	220.3	0.91	7.60	-22
38	09/24/14 11:57:41	11.88	211.1	0.88	7.61	-22
39	09/24/14 11:58:01	11.88	233.4	0.86	7.59	-23
40	09/24/14 11:58:21	11.87	226.3	0.85	7.60	-23
41	09/24/14 11:58:41	11.86	206.9	0.85	7.60	-23
42	09/24/14 11:59:01	11.86	237.2	0.85	7.61	-23
43	09/24/14 11:59:21	11.83	206.3	0.82	7.60	-23
44	09/24/14 11:59:41	11.83	202.9	0.82	7.60	-23
45	09/24/14 12:00:01	11.83	226.4	0.82	7.61	-24
46	09/24/14 12:00:21	11.82	213.9	0.82	7.61	-28
47	09/24/14 12:00:41	11.82	237.9	0.81	7.60	-30
48	09/24/14 12:01:01	11.81	215.2	0.81	7.61	-31
49	09/24/14 12:01:21	11.79	221.9	0.77	7.60	-31
50	09/24/14 12:01:41	11.78	235.9	0.78	7.60	-32

MW-16D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/24/14 12:02:01	11.78	230.5	0.78	7.60	-31
52	09/24/14 12:02:21	11.77	212.0	0.76	7.60	-31
53	09/24/14 12:02:41	11.78	221.6	0.79	7.61	-30
54	09/24/14 12:03:01	11.77	203.3	0.77	7.61	-29
55	09/24/14 12:03:21	11.77	234.2	0.77	7.61	-29
56	09/24/14 12:03:41	11.78	218.6	0.77	7.62	-29
57	09/24/14 12:04:01	11.78	209.5	0.75	7.61	-28
58	09/24/14 12:04:21	11.79	216.9	0.75	7.60	-28
59	09/24/14 12:04:41	11.79	222.3	0.75	7.60	-28
60	09/24/14 12:05:01	11.79	210.3	0.75	7.62	-28
61	09/24/14 12:05:21	11.80	211.5	0.75	7.60	-28
62	09/24/14 12:05:41	11.79	209.8	0.74	7.62	-27
63	09/24/14 12:06:01	11.79	203.8	0.74	7.60	-26
64	09/24/14 12:06:21	11.78	233.5	0.73	7.62	-27
65	09/24/14 12:06:41	11.79	203.4	0.73	7.61	-28

MW-16D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: OW-16-0914
Volatile bottles preserved by: JB 09/18/14 0842725
Sampled by: AP

Date: 9-24-14
Time: 12:50 pm
Weather: cool/sunny

Top of casing elevation: 626.84 ft
Depth to well bottom: 72.75 ft
Depth to static water level: 15.98 ft
Height of water column, H: 56.77 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 8.7 gallons
Volume of water evacuated: 3 .34w gallons

Depth to static water level after purging: 16.01
Did well recover? YES NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:25		16.39	11.25	8.31	2.86	221	26.1	6.7
2	12:40		16.39	11.09	7.61	1.55	248	16.2	-93.7
3	12:43		16.39	11.14	7.61	1.26	247	16.5	-94.0
4	12:46		16.39	11.17	7.63	1.17	247	15.0	-98.3
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature: 87

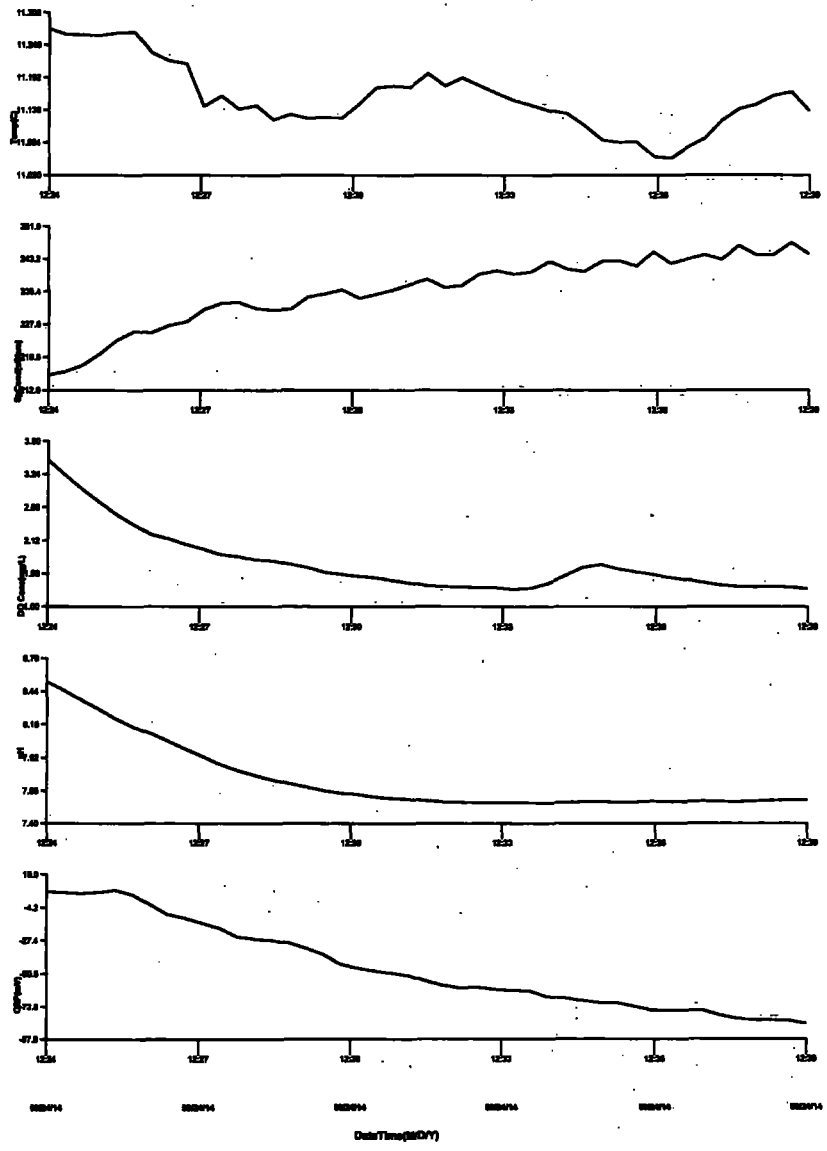
OW-16.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/24/14 12:24:59	11.27	215.3	3.50	8.52	8
2	09/24/14 12:25:19	11.26	216.0	3.24	8.46	7
3	09/24/14 12:25:39	11.26	217.6	2.99	8.38	7
4	09/24/14 12:25:59	11.26	220.3	2.77	8.30	7
5	09/24/14 12:26:19	11.27	223.6	2.56	8.23	9
6	09/24/14 12:26:39	11.27	225.7	2.38	8.16	5
7	09/24/14 12:26:59	11.23	225.4	2.21	8.11	-1
8	09/24/14 12:27:19	11.22	227.2	2.14	8.05	-9
9	09/24/14 12:27:39	11.21	228.0	2.05	7.98	-11
10	09/24/14 12:27:59	11.14	231.0	1.96	7.92	-15
11	09/24/14 12:28:19	11.16	232.6	1.87	7.86	-19
12	09/24/14 12:28:39	11.14	232.8	1.84	7.81	-25
13	09/24/14 12:28:59	11.14	231.3	1.78	7.78	-26
14	09/24/14 12:29:19	11.12	230.9	1.76	7.74	-27
15	09/24/14 12:29:39	11.13	231.1	1.70	7.71	-29
16	09/24/14 12:29:59	11.12	234.1	1.64	7.68	-33
17	09/24/14 12:30:19	11.12	234.8	1.56	7.65	-37
18	09/24/14 12:30:39	11.12	235.8	1.52	7.63	-44
19	09/24/14 12:30:59	11.15	233.7	1.49	7.62	-47
20	09/24/14 12:31:19	11.17	234.7	1.47	7.60	-49
21	09/24/14 12:31:39	11.18	235.8	1.42	7.59	-51
22	09/24/14 12:31:59	11.17	237.1	1.38	7.58	-53
23	09/24/14 12:32:19	11.20	238.4	1.33	7.57	-56
24	09/24/14 12:32:39	11.18	236.4	1.32	7.56	-59
25	09/24/14 12:32:59	11.19	236.8	1.31	7.56	-61

OW-16.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/24/14 12:33:19	11.18	239.6	1.30	7.56	-61
27	09/24/14 12:33:39	11.16	240.5	1.29	7.55	-62
28	09/24/14 12:33:59	11.15	239.6	1.26	7.56	-63
29	09/24/14 12:34:19	11.14	240.2	1.28	7.55	-63
30	09/24/14 12:34:39	11.13	242.7	1.37	7.55	-67
31	09/24/14 12:34:59	11.13	240.8	1.50	7.56	-69
32	09/24/14 12:35:19	11.11	240.2	1.64	7.56	-70
33	09/24/14 12:35:39	11.09	242.7	1.69	7.56	-72
34	09/24/14 12:35:59	11.08	242.8	1.62	7.56	-72
35	09/24/14 12:36:19	11.08	241.5	1.57	7.56	-75
36	09/24/14 12:36:39	11.06	245.0	1.52	7.56	-77
37	09/24/14 12:36:59	11.06	242.2	1.46	7.56	-78
38	09/24/14 12:37:19	11.07	243.3	1.43	7.56	-77
39	09/24/14 12:37:39	11.09	244.3	1.38	7.57	-77
40	09/24/14 12:37:59	11.12	243.2	1.33	7.56	-81
41	09/24/14 12:38:19	11.14	246.5	1.32	7.56	-83
42	09/24/14 12:38:39	11.15	244.3	1.31	7.56	-84
43	09/24/14 12:38:59	11.16	244.3	1.32	7.57	-84
44	09/24/14 12:39:19	11.17	247.4	1.30	7.57	-85
45	09/24/14 12:39:39	11.13	244.5	1.28	7.58	-87

OW-16.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-12s-0914
Volatile bottles preserved by: JB 09/18/14 0SCI 2725
Sampled by: CP

Date: 9.24.14
Time: 2pm
Weather: cool/sunny

Top of casing elevation: 641.49 ft
Depth to well bottom: 32.7 ft
Depth to static water level: 15.97 ft
Height of water column, H: 16.78 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 2.6 gallons
Volume of water evacuated: 1.5 gallons
Depth to static water level after purging: 21.60
Did well recover? YES (NO)
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	2:10		21.60	19.44	7.38	3.64	37	1.25	-75.5
2									
3									
4									
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO)
Other observations:
PID reading:
Comments: purged dry - No recovery enough H2O just to take one measurement & fill sample bottles

Additional comments on methodology, etc.:

Signature: 91

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-31d-0914
Volatile bottles preserved by: JB 09/18/14 0SCI 2725
Sampled by: CP

Date: 9.24.14
Time: 3pm
Weather: warm/sunny

Top of casing elevation: 644.64 ft
Depth to well bottom: 71.8 ft
Depth to static water level: 11.62 ft
Height of water column, H: 60.18 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 9.2 gallons
Volume of water evacuated: 2.5 2 1/2 gallons
Depth to static water level after purging: 11.62
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	2:35		11.86	12.87	8.23	3.81	194	36.5	76.6
2	2:50		11.86	11.76	7.63	1.91	240	15.8	1.1
3	2:55		11.86	11.62	7.60	1.79	245	18.4	-2.7
4	2:56		11.86	11.62	7.59	1.77	245	17.9	-4.1
5									
6									
7									
8									

Sample color: slightly cloudy
Sample turbidity: mod
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature: 92

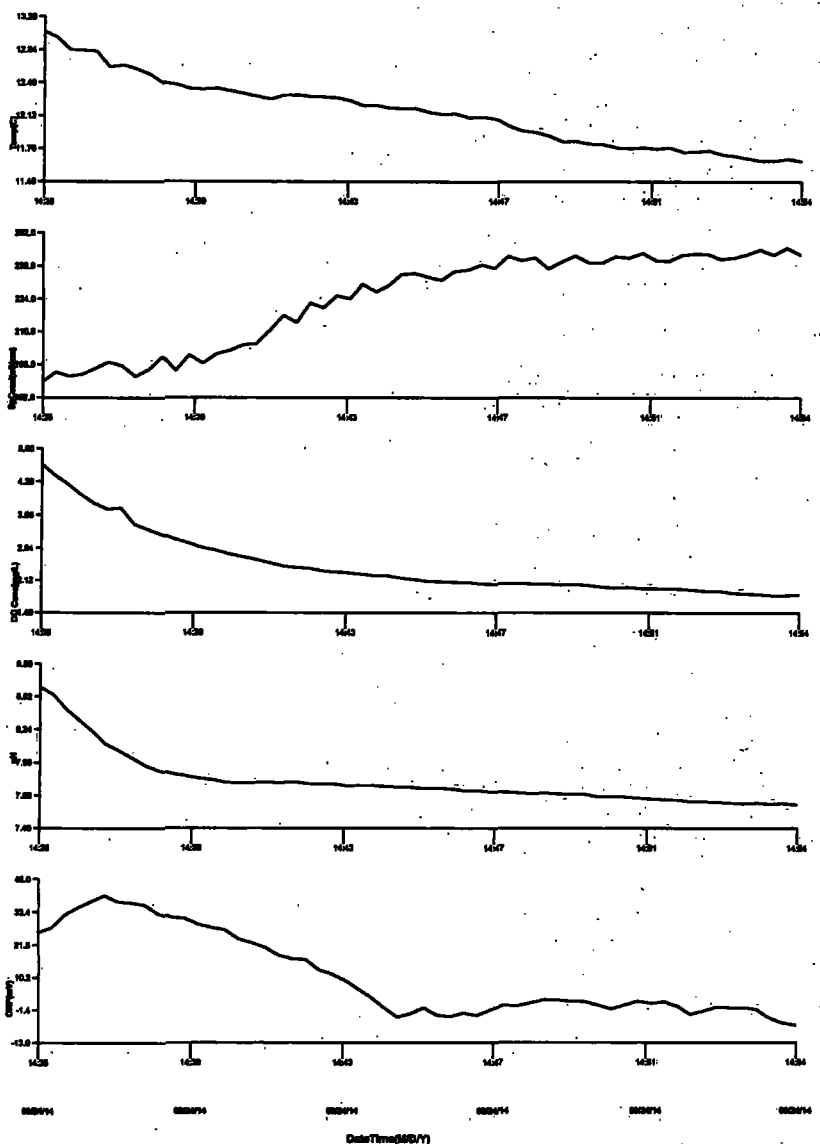
K-31D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/24/14 14:35:48	13.05	188.0	4.68	8.61	26
2	09/24/14 14:36:08	12.98	192.3	4.43	8.54	28
3	09/24/14 14:36:28	12.85	190.5	4.24	8.42	33
4	09/24/14 14:36:48	12.85	191.4	4.01	8.32	35
5	09/24/14 14:37:08	12.83	193.8	3.82	8.23	37
6	09/24/14 14:37:28	12.65	196.6	3.69	8.11	40
7	09/24/14 14:37:48	12.68	195.1	3.72	8.06	37
8	09/24/14 14:38:08	12.63	190.5	3.36	7.99	37
9	09/24/14 14:38:28	12.57	193.5	3.24	7.93	36
10	09/24/14 14:38:48	12.48	199.0	3.13	7.88	33
11	09/24/14 14:39:08	12.46	192.8	3.03	7.86	32
12	09/24/14 14:39:28	12.41	199.6	2.94	7.84	31
13	09/24/14 14:39:48	12.40	196.0	2.84	7.82	29
14	09/24/14 14:40:08	12.41	199.9	2.77	7.81	28
15	09/24/14 14:40:28	12.38	201.5	2.69	7.78	27
16	09/24/14 14:40:48	12.36	203.9	2.62	7.78	24
17	09/24/14 14:41:08	12.33	204.4	2.57	7.78	23
18	09/24/14 14:41:28	12.29	210.2	2.49	7.79	21
19	09/24/14 14:41:48	12.34	216.6	2.42	7.78	18
20	09/24/14 14:42:08	12.34	213.6	2.38	7.79	17
21	09/24/14 14:42:28	12.32	222.2	2.36	7.77	16
22	09/24/14 14:42:48	12.32	220.0	2.31	7.77	13
23	09/24/14 14:43:08	12.31	225.3	2.27	7.77	11
24	09/24/14 14:43:28	12.28	224.0	2.26	7.75	9
25	09/24/14 14:43:48	12.22	230.4	2.23	7.76	6
26	09/24/14 14:44:08	12.22	227.0	2.19	7.76	3
27	09/24/14 14:44:28	12.20	229.8	2.19	7.75	-1
28	09/24/14 14:44:48	12.19	234.7	2.14	7.75	-4
29	09/24/14 14:45:08	12.19	235.1	2.11	7.74	-3
30	09/24/14 14:45:28	12.15	233.4	2.07	7.73	-1

K-31D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	09/24/14 14:45:48	12.13	232.2	2.06	7.74	-4
32	09/24/14 14:46:08	12.13	235.9	2.05	7.73	-4
33	09/24/14 14:46:28	12.09	236.6	2.04	7.71	-3
34	09/24/14 14:46:48	12.10	238.8	2.02	7.72	-4
35	09/24/14 14:47:08	12.08	237.4	2.01	7.70	-2
36	09/24/14 14:47:28	11.99	242.4	2.01	7.70	-0
37	09/24/14 14:47:48	11.94	240.5	2.02	7.70	-0
38	09/24/14 14:48:08	11.93	241.8	2.01	7.69	1
39	09/24/14 14:48:28	11.88	237.0	2.00	7.69	2
40	09/24/14 14:48:48	11.82	240.0	1.98	7.69	2
41	09/24/14 14:49:08	11.83	242.6	1.99	7.68	1
42	09/24/14 14:49:28	11.80	239.7	1.98	7.68	1
43	09/24/14 14:49:48	11.79	239.7	1.94	7.66	-0
44	09/24/14 14:50:08	11.76	242.3	1.92	7.66	-1
45	09/24/14 14:50:28	11.75	241.8	1.93	7.66	-0
46	09/24/14 14:50:48	11.76	243.7	1.90	7.65	1
47	09/24/14 14:51:08	11.74	240.6	1.90	7.64	0
48	09/24/14 14:51:28	11.76	240.3	1.90	7.63	1
49	09/24/14 14:51:48	11.71	243.0	1.89	7.63	-1
50	09/24/14 14:52:08	11.71	243.5	1.87	7.62	-3
51	09/24/14 14:52:28	11.72	243.4	1.85	7.61	-2
52	09/24/14 14:52:48	11.68	241.2	1.84	7.61	-1
53	09/24/14 14:53:08	11.66	241.8	1.80	7.61	-1
54	09/24/14 14:53:28	11.64	243.3	1.78	7.60	-1
55	09/24/14 14:53:48	11.61	245.3	1.77	7.61	-2
56	09/24/14 14:54:08	11.61	243.0	1.76	7.60	-5
57	09/24/14 14:54:28	11.63	246.1	1.75	7.60	-7
58	09/24/14 14:54:48	11.61	243.0	1.76	7.59	-7

K-31D.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-5dR-0914
Volatile bottles preserved by: SR 09/17/14 0SCT 2725
Sampled by: tp

Date: 9.25.14
Time: 8:40 am
Weather: cool

Top of casing elevation: 641.99 ft Depth to well bottom: 82.62 ft

Depth to static water level: 15.80 ft Height of water column, H: 66.82 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 10.2 gallons

Volume of water evacuated: 2.75 .27wc gallons

Depth to static water level after purging: 15.80
Did well recover? YES NO

Method of evacuation: Peristaltic Purge Flow Rate: 400 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:15		15.87	10.72	6.92	10.41	413	13.9	192.1
2	8:30		15.87	10.45	6.99	4.07	417	9.67	40.5
3	8:53		15.87	10.44	7.00	3.33	417	8.37	27.9
4	8:36		15.87	10.44	7.01	2.86	417	7.19	24.8
5	8:39		15.87	10.43	7.01	2.71	417	6.09	16.7
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 96

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K-5DR.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/25/14 08:13:54	10.75	407.8	10.65	6.92	200
2	09/25/14 08:14:14	10.73	410.2	10.75	6.92	199
3	09/25/14 08:14:34	10.73	411.4	10.39	6.92	198
4	09/25/14 08:14:54	10.69	413.2	10.31	6.92	198
5	09/25/14 08:15:14	10.67	414.4	10.32	6.92	197
6	09/25/14 08:15:34	10.65	415.6	10.23	6.92	196
7	09/25/14 08:15:54	10.63	416.6	10.05	6.92	194
8	09/25/14 08:16:14	10.62	417.3	9.95	6.93	192
9	09/25/14 08:16:34	10.60	418.3	9.88	6.93	191
10	09/25/14 08:16:54	10.60	418.5	9.84	6.93	189
11	09/25/14 08:17:14	10.59	418.8	9.69	6.93	188
12	09/25/14 08:17:34	10.58	419.2	9.62	6.94	186
13	09/25/14 08:17:54	10.56	419.1	9.54	6.94	183
14	09/25/14 08:18:14	10.56	419.0	9.42	6.94	179
15	09/25/14 08:18:34	10.55	419.7	9.26	6.94	176
16	09/25/14 08:18:54	10.54	419.5	9.12	6.95	172
17	09/25/14 08:19:14	10.54	419.3	8.98	6.95	169
18	09/25/14 08:19:34	10.53	419.5	8.81	6.95	165
19	09/25/14 08:19:54	10.53	419.4	8.69	6.95	161
20	09/25/14 08:20:14	10.53	419.4	8.54	6.96	157
21	09/25/14 08:20:34	10.52	419.3	8.37	6.96	154
22	09/25/14 08:20:54	10.51	419.7	8.21	6.95	151
23	09/25/14 08:21:14	10.51	419.6	8.02	6.96	147
24	09/25/14 08:21:34	10.51	419.2	7.81	6.96	143
25	09/25/14 08:21:54	10.51	419.2	7.61	6.96	139

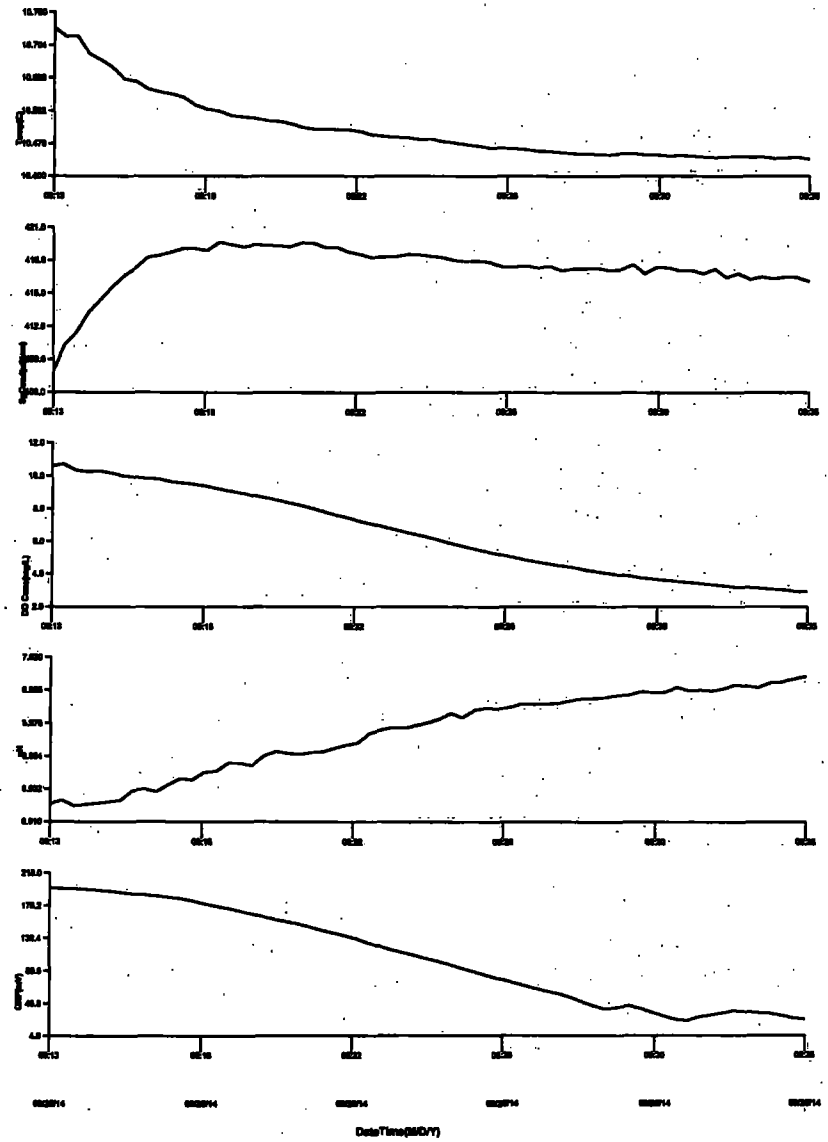
K-5DR.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/25/14 08:22:14	10.51	418.8	7.45	6.96	136
27	09/25/14 08:22:34	10.50	418.6	7.23	6.96	132
28	09/25/14 08:22:54	10.49	418.3	7.06	6.97	126
29	09/25/14 08:23:14	10.49	418.4	6.88	6.97	122
30	09/25/14 08:23:34	10.49	418.4	6.69	6.97	117
31	09/25/14 08:23:54	10.49	418.6	6.52	6.97	113
32	09/25/14 08:24:14	10.48	418.6	6.36	6.97	109
33	09/25/14 08:24:34	10.48	418.4	6.19	6.98	105
34	09/25/14 08:24:54	10.48	418.3	6.01	6.98	101
35	09/25/14 08:25:14	10.48	418.0	5.79	6.98	97
36	09/25/14 08:25:34	10.47	418.0	5.63	6.98	92
37	09/25/14 08:25:54	10.47	418.0	5.44	6.98	88
38	09/25/14 08:26:14	10.46	417.9	5.28	6.99	83
39	09/25/14 08:26:34	10.46	417.4	5.12	6.99	79
40	09/25/14 08:26:54	10.46	417.4	4.98	6.99	75
41	09/25/14 08:27:14	10.46	417.5	4.82	6.99	70
42	09/25/14 08:27:34	10.46	417.3	4.69	6.99	66
43	09/25/14 08:27:54	10.45	417.5	4.56	6.99	62
44	09/25/14 08:28:14	10.45	417.1	4.44	6.99	59
45	09/25/14 08:28:34	10.45	417.2	4.35	6.99	54
46	09/25/14 08:28:54	10.45	417.3	4.20	6.99	48
47	09/25/14 08:29:14	10.45	417.3	4.09	6.99	42
48	09/25/14 08:29:34	10.45	417.1	3.98	6.99	38
49	09/25/14 08:29:54	10.45	417.2	3.89	7.00	40
50	09/25/14 08:30:14	10.45	417.7	3.80	7.00	42

K-5DR.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/25/14 08:30:34	10.45	416.8	3.69	7.00	38
52	09/25/14 08:30:54	10.45	417.4	3.62	7.00	33
53	09/25/14 08:31:14	10.44	417.4	3.54	7.00	28
54	09/25/14 08:31:34	10.44	417.1	3.47	7.00	23
55	09/25/14 08:31:54	10.44	417.1	3.41	7.00	22
56	09/25/14 08:32:14	10.44	416.8	3.34	7.00	27
57	09/25/14 08:32:34	10.44	417.2	3.27	7.00	29
58	09/25/14 08:32:54	10.44	416.4	3.20	7.00	32
59	09/25/14 08:33:14	10.44	416.8	3.13	7.00	35
60	09/25/14 08:33:34	10.44	416.3	3.11	7.00	34
61	09/25/14 08:33:54	10.44	416.5	3.05	7.00	33
62	09/25/14 08:34:14	10.44	416.3	2.99	7.00	31
63	09/25/14 08:34:34	10.44	416.5	2.96	7.00	28
64	09/25/14 08:34:54	10.44	416.5	2.86	7.01	25
65	09/25/14 08:35:14	10.44	416.1	2.84	7.01	23

K-5DR.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-4sR-0914
Volatile bottles preserved by: JB 09/18/14 OSCT 2725
Sampled by: AP

Date: 9.25.14
Time: 9:20 am
Weather: cool

Top of casing elevation: 642.26 ft
Depth to well bottom: 30.53 ft

Depth to static water level: 15.87 ft
Height of water column, H: 14.66 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 2.24 gallons

Volume of water evacuated: 3 1.3 wc gallons

Depth to static water level after purging: 15.87
Did well recover? YES NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:55		15.87	10.87	7.62	10.12	146	1.52	113.8
2	9:10		15.87	10.92	7.64	9.07	156	-2.40	118.7
3	9:13		15.87	10.95	7.64	8.57	158	-2.64	119.3
4	9:16		15.87	10.98	7.64	8.92	158	-2.75	119.7
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 101

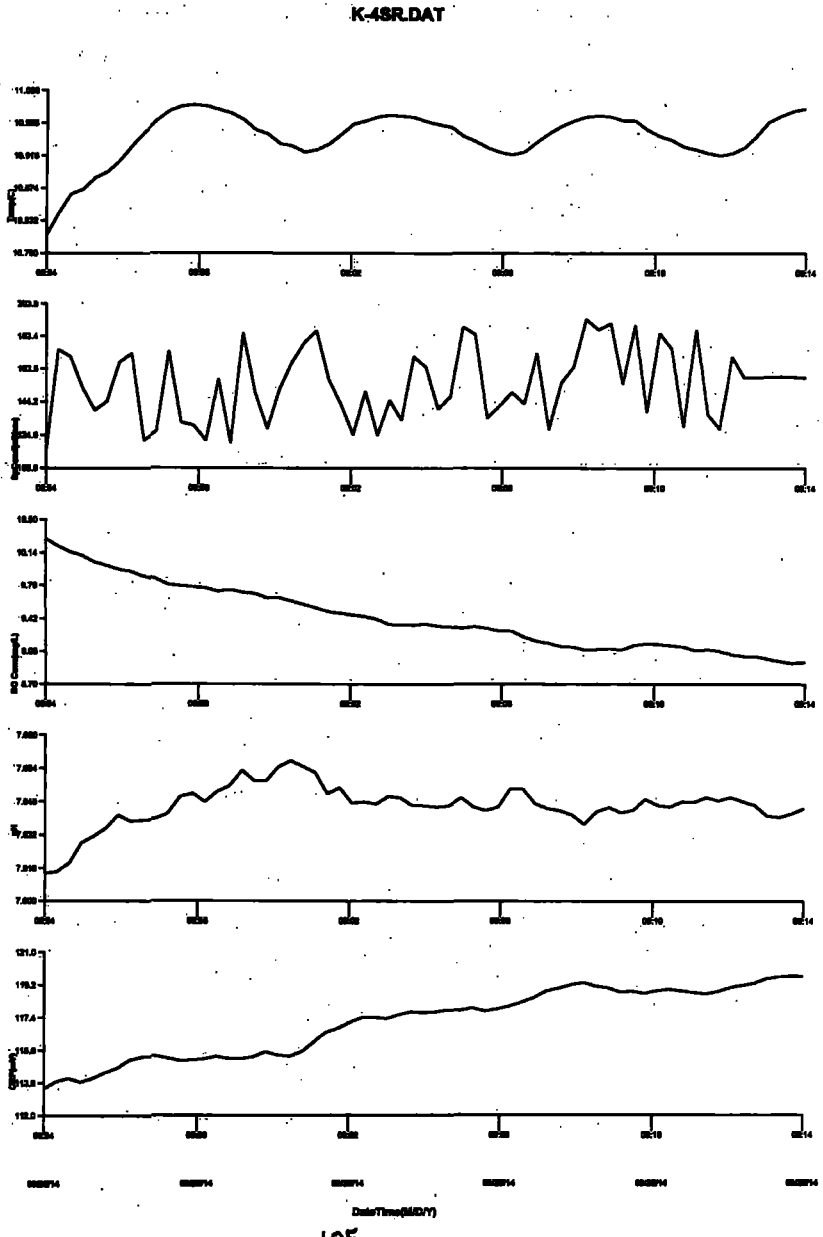
K-4sR-0212.xls

K-4SR.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/25/14 08:54:01	10.81	113.4	10.31	7.61	113
2	09/25/14 08:54:21	10.84	175.5	10.22	7.61	114
3	09/25/14 08:54:41	10.87	171.1	10.16	7.62	114
4	09/25/14 08:55:01	10.87	152.1	10.12	7.63	114
5	09/25/14 08:55:21	10.89	138.7	10.05	7.63	114
6	09/25/14 08:55:41	10.90	144.1	10.01	7.64	114
7	09/25/14 08:56:01	10.91	167.9	9.96	7.64	115
8	09/25/14 08:56:21	10.93	173.1	9.94	7.64	115
9	09/25/14 08:56:41	10.95	120.9	9.88	7.64	115
10	09/25/14 08:57:01	10.96	126.1	9.85	7.64	115
11	09/25/14 08:57:21	10.97	174.3	9.79	7.64	115
12	09/25/14 08:57:41	10.98	131.3	9.77	7.65	115
13	09/25/14 08:58:01	10.98	129.7	9.76	7.65	115
14	09/25/14 08:58:21	10.98	120.6	9.75	7.65	115
15	09/25/14 08:58:41	10.98	157.4	9.71	7.65	115
16	09/25/14 08:59:01	10.97	118.9	9.73	7.66	115
17	09/25/14 08:59:21	10.96	185.7	9.70	7.66	115
18	09/25/14 08:59:41	10.95	148.8	9.69	7.66	115
19	09/25/14 09:00:01	10.94	127.5	9.64	7.66	115
20	09/25/14 09:00:21	10.93	151.2	9.64	7.66	115
21	09/25/14 09:00:41	10.93	167.4	9.61	7.67	115
22	09/25/14 09:01:01	10.92	179.5	9.57	7.67	115
23	09/25/14 09:01:21	10.92	186.9	9.53	7.66	116
24	09/25/14 09:01:41	10.93	157.4	9.49	7.65	117
25	09/25/14 09:02:01	10.94	142.2	9.47	7.65	117

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/25/14 09:02:21	10.96	124.1	9.45	7.65	117
27	09/25/14 09:02:41	10.96	150.1	9.43	7.65	117
28	09/25/14 09:03:01	10.97	123.6	9.40	7.65	117
29	09/25/14 09:03:21	10.97	144.5	9.35	7.65	117
30	09/25/14 09:03:41	10.97	132.7	9.35	7.65	118
31	09/25/14 09:04:01	10.97	171.1	9.34	7.65	118
32	09/25/14 09:04:21	10.96	164.6	9.36	7.65	118
33	09/25/14 09:04:41	10.96	139.5	9.33	7.65	118
34	09/25/14 09:05:01	10.95	147.0	9.32	7.65	118
35	09/25/14 09:05:21	10.94	189.2	9.31	7.65	118
36	09/25/14 09:05:41	10.93	184.7	9.32	7.65	118
37	09/25/14 09:06:01	10.93	133.9	9.31	7.64	118
38	09/25/14 09:06:21	10.92	141.0	9.27	7.65	118
39	09/25/14 09:06:41	10.92	149.4	9.27	7.65	118
40	09/25/14 09:07:01	10.92	142.4	9.21	7.65	118
41	09/25/14 09:07:21	10.93	173.1	9.16	7.65	119
42	09/25/14 09:07:41	10.95	127.2	9.14	7.64	119
43	09/25/14 09:08:01	10.95	155.0	9.10	7.64	119
44	09/25/14 09:08:21	10.96	164.6	9.09	7.64	119
45	09/25/14 09:08:41	10.97	194.1	9.06	7.64	119
46	09/25/14 09:09:01	10.97	187.6	9.07	7.64	119
47	09/25/14 09:09:21	10.97	191.5	9.08	7.65	119
48	09/25/14 09:09:41	10.96	154.5	9.07	7.64	119
49	09/25/14 09:10:01	10.96	190.4	9.12	7.64	119
50	09/25/14 09:10:21	10.95	137.6	9.14	7.65	119

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/25/14 09:10:41	10.94	185.6	9.13	7.65	119
52	09/25/14 09:11:01	10.94	176.0	9.11	7.65	119
53	09/25/14 09:11:21	10.93	128.6	9.10	7.65	119
54	09/25/14 09:11:41	10.92	187.6	9.06	7.65	119
55	09/25/14 09:12:01	10.92	136.0	9.07	7.65	119
56	09/25/14 09:12:21	10.92	127.2	9.05	7.65	119
57	09/25/14 09:12:41	10.92	171.1	9.01	7.65	119
58	09/25/14 09:13:01	10.93	158.1	8.99	7.65	119
59	09/25/14 09:13:21	10.94	158.3	8.99	7.65	119
60	09/25/14 09:13:41	10.96	158.7	8.96	7.64	120
61	09/25/14 09:14:01	10.97	158.9	8.93	7.64	120
62	09/25/14 09:14:21	10.97	158.7	8.91	7.64	120
63	09/25/14 09:14:41	10.98	158.3	8.93	7.64	120



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-24s-0914
Volatile bottles preserved by: JB 09/18/14 ascr 2725
Sampled by: GF

Date: 9.25-4
Time: 10:40 am
Weather: cool

Top of casing elevation: 635.45 ft

Depth to well bottom: 14.36 21.95 ft

Depth to static water level: ~~13.72~~ ft Height of water column, H: 7.65 9.25 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 1.17 gallons

Volume of water evacuated: 2.75 2.4wc gallons

Depth to static water level after purging: 14.30
Did well recover? (YES) NO

Method of evacuation: Peristaltic Purge Flow Rate: 400 mL/min

Method of sampling: Peristatic

Readings:

Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
10:05		14.52	11.45	5.95	4.37	86	32.6	92.8
10:20		14.48	11.53	5.51	2.73	88	8.01	121.7
10:23		14.48	11.56	5.52	2.75	83	7.94	121.5
10:26		14.48	11.57	5.52	2.72	83	7.95	122.8

Sample color: slightly cloudy
Sample turbidity: mild
Sample odor: YES (NO) PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

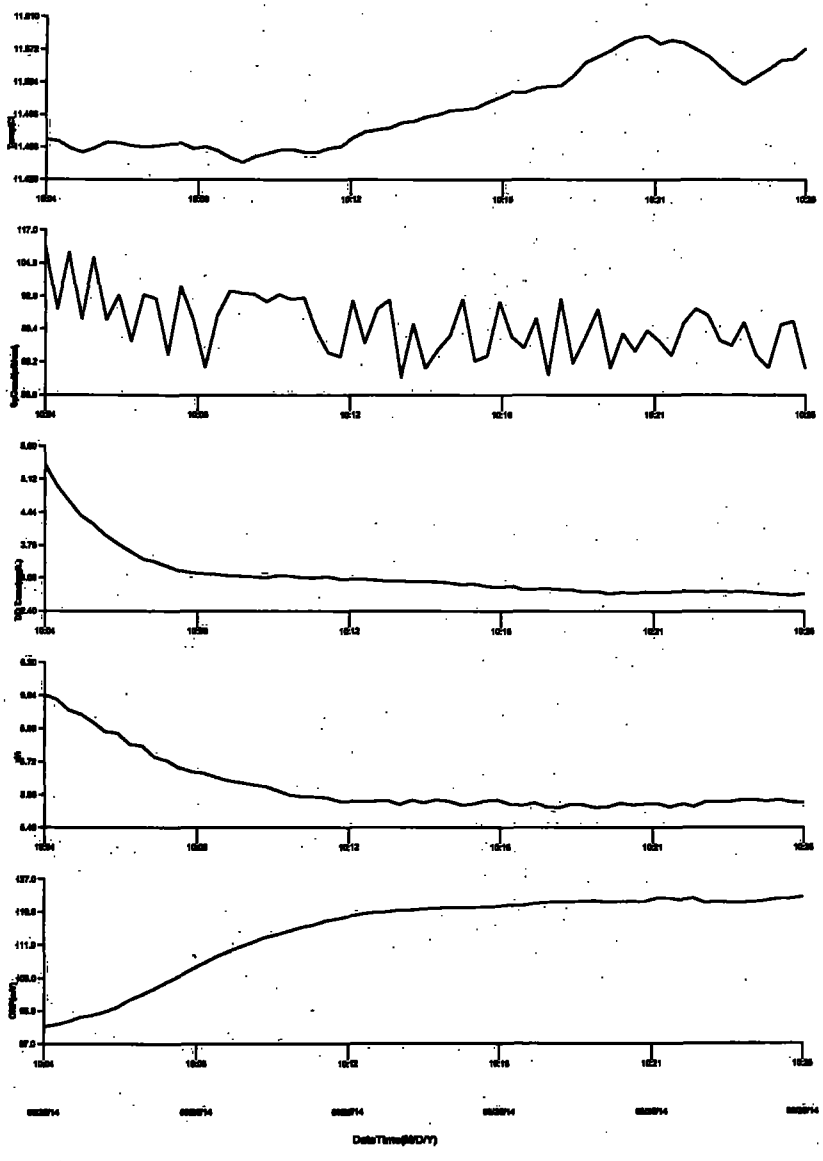
KW-24S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/25/14 10:04:32	11.47	111.9	5.45	6.05	91
2	09/25/14 10:04:52	11.46	87.5	5.00	6.02	91
3	09/25/14 10:05:12	11.46	109.3	4.68	5.97	92
4	09/25/14 10:05:32	11.45	83.8	4.37	5.95	93
5	09/25/14 10:05:52	11.46	107.4	4.20	5.91	94
6	09/25/14 10:06:12	11.46	83.6	3.95	5.87	95
7	09/25/14 10:06:32	11.46	93.1	3.77	5.86	96
8	09/25/14 10:06:52	11.46	75.4	3.61	5.80	97
9	09/25/14 10:07:12	11.46	93.2	3.45	5.79	99
10	09/25/14 10:07:32	11.46	91.6	3.39	5.74	100
11	09/25/14 10:07:52	11.46	70.4	3.30	5.72	102
12	09/25/14 10:08:12	11.46	96.4	3.21	5.69	103
13	09/25/14 10:08:32	11.45	84.1	3.16	5.67	105
14	09/25/14 10:08:52	11.46	65.6	3.14	5.66	107
15	09/25/14 10:09:12	11.45	85.2	3.13	5.64	108
16	09/25/14 10:09:32	11.44	94.5	3.09	5.62	109
17	09/25/14 10:09:52	11.44	93.8	3.09	5.61	111
18	09/25/14 10:10:12	11.45	93.3	3.08	5.60	112
19	09/25/14 10:10:32	11.45	90.4	3.06	5.59	113
20	09/25/14 10:10:52	11.45	93.3	3.10	5.57	114
21	09/25/14 10:11:12	11.45	91.4	3.09	5.55	114
22	09/25/14 10:11:32	11.45	92.1	3.06	5.55	115
23	09/25/14 10:11:52	11.45	79.4	3.05	5.54	116
24	09/25/14 10:12:12	11.45	71.3	3.08	5.54	117
25	09/25/14 10:12:32	11.46	69.7	3.03	5.52	117
26	09/25/14 10:12:52	11.47	90.7	3.03	5.52	118
27	09/25/14 10:13:12	11.47	74.7	3.03	5.52	119
28	09/25/14 10:13:32	11.48	87.6	3.00	5.52	119
29	09/25/14 10:13:52	11.48	91.1	2.99	5.52	119
30	09/25/14 10:14:12	11.49	61.8	3.00	5.50	119
31	09/25/14 10:14:32	11.49	82.0	2.97	5.53	120
32	09/25/14 10:14:52	11.49	65.3	2.98	5.51	120
33	09/25/14 10:15:12	11.49	72.2	2.97	5.53	120

KW-24S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
34	09/25/14 10:15:32	11.50	77.7	2.95	5.52	120
35	09/25/14 10:15:52	11.50	91.4	2.92	5.50	120
36	09/25/14 10:16:12	11.50	68.1	2.93	5.51	120
37	09/25/14 10:16:32	11.51	70.1	2.88	5.52	120
38	09/25/14 10:16:52	11.52	90.5	2.87	5.53	120
39	09/25/14 10:17:12	11.52	77.1	2.89	5.51	121
40	09/25/14 10:17:32	11.52	73.0	2.81	5.50	121
41	09/25/14 10:17:52	11.53	84.2	2.83	5.51	121
42	09/25/14 10:18:12	11.53	62.8	2.83	5.49	121
43	09/25/14 10:18:32	11.53	91.5	2.81	5.49	122
44	09/25/14 10:18:52	11.54	67.2	2.80	5.51	122
45	09/25/14 10:19:12	11.56	76.7	2.76	5.50	122
46	09/25/14 10:19:32	11.56	87.5	2.77	5.49	122
47	09/25/14 10:19:52	11.57	65.4	2.73	5.49	122
48	09/25/14 10:20:12	11.58	78.4	2.75	5.51	122
49	09/25/14 10:20:32	11.59	71.7	2.74	5.50	122
50	09/25/14 10:20:52	11.59	79.5	2.76	5.51	122
51	09/25/14 10:21:12	11.58	75.5	2.75	5.51	123
52	09/25/14 10:21:32	11.58	70.2	2.76	5.49	123
53	09/25/14 10:21:52	11.58	82.2	2.78	5.51	122
54	09/25/14 10:22:12	11.57	87.7	2.78	5.49	123
55	09/25/14 10:22:32	11.56	85.3	2.76	5.52	121
56	09/25/14 10:22:52	11.55	75.9	2.77	5.52	122
57	09/25/14 10:23:12	11.54	73.9	2.76	5.52	121
58	09/25/14 10:23:32	11.53	82.6	2.77	5.53	121
59	09/25/14 10:23:52	11.54	70.2	2.75	5.53	122
60	09/25/14 10:24:12	11.55	65.5	2.74	5.52	122
61	09/25/14 10:24:32	11.56	81.7	2.71	5.53	122
62	09/25/14 10:24:52	11.56	83.0	2.70	5.52	122
63	09/25/14 10:25:12	11.57	65.3	2.73	5.51	123

KW-248.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-25d-0914
Volatile bottles preserved by: JB 9/15/14 0821 2225
Sampled by: TP

Date: 9.25.14
Time: 11:10 am
Weather: cool

Top of casing elevation: 638.38 ft

Depth to well bottom: 16.73 42 ft

Depth to static water level: 15.72 ft Height of water column, H: 25.67 26.28 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 40 3.9 gallons

Volume of water evacuated: 2.5 .640 gallons

Depth to static water level after purging: 18.40
Did well recover? YES NO

Method of evacuation: Peristaltic Purge Flow Rate: 400 mL/min

Method of sampling: Peristatic

Readings:

Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
10:45		19.57	11.34	8.43	3.33	166	20.7	65.6
11		20.52	11.86	8.38	2.35	123	5.81	74.3
11:53		20.48	11.88	8.35	2.42	[illegible]	5.39	76.3
11:06		20.45	11.93	8.33	2.50	134	5.03	77.9

Sample color: Cloudy
Sample turbidity: low
Sample odor YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

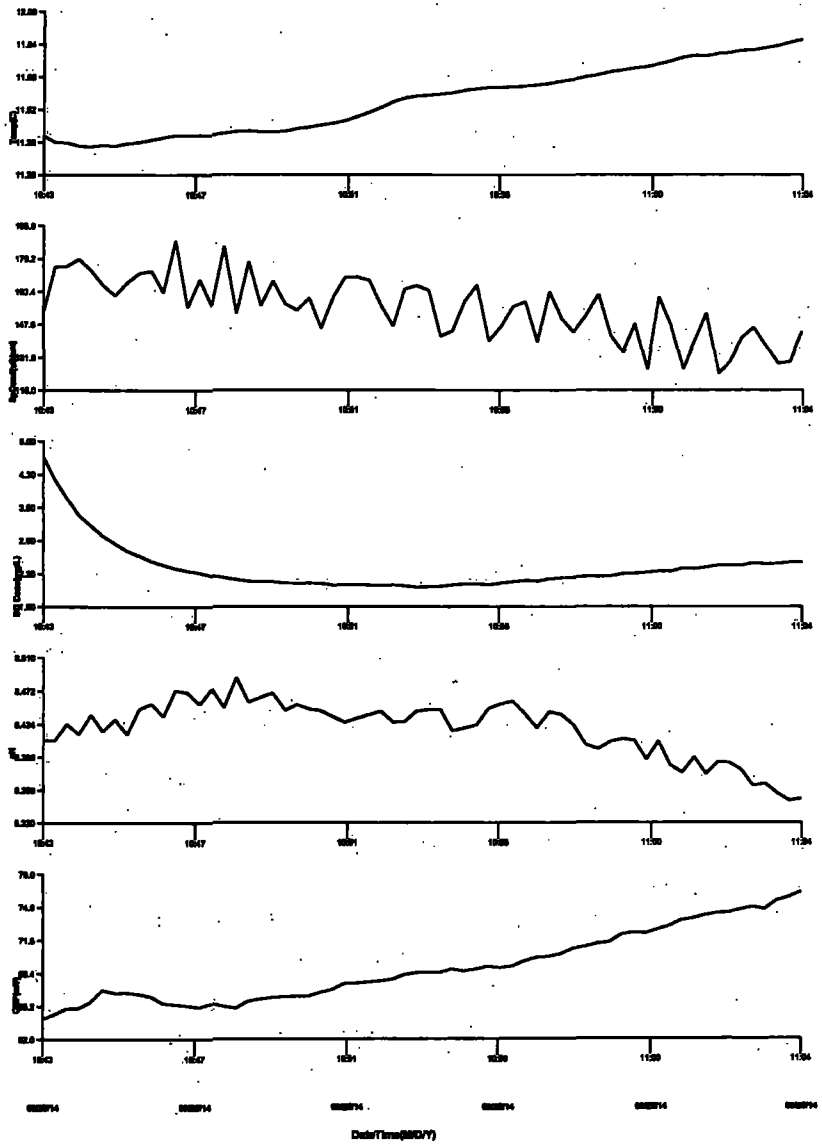
KW-25D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/25/14 10:43:29	11.39	152.8	4.70	8.42	64
2	09/25/14 10:43:49	11.35	175.6	4.20	8.42	64
3	09/25/14 10:44:09	11.35	175.8	3.80	8.43	65
4	09/25/14 10:44:29	11.34	179.3	3.44	8.42	65
5	09/25/14 10:44:49	11.33	173.8	3.20	8.45	66
6	09/25/14 10:45:09	11.34	166.7	2.99	8.43	67
7	09/25/14 10:45:29	11.34	161.5	2.82	8.44	66
8	09/25/14 10:45:49	11.35	167.7	2.66	8.42	66
9	09/25/14 10:46:09	11.36	172.4	2.56	8.45	66
10	09/25/14 10:46:29	11.37	173.6	2.44	8.46	66
11	09/25/14 10:46:49	11.38	163.0	2.37	8.44	65
12	09/25/14 10:47:09	11.39	188.3	2.29	8.47	65
13	09/25/14 10:47:29	11.39	155.7	2.24	8.47	65
14	09/25/14 10:47:49	11.39	169.2	2.20	8.46	65
15	09/25/14 10:48:09	11.39	156.4	2.13	8.48	65
16	09/25/14 10:48:29	11.40	185.6	2.09	8.45	65
17	09/25/14 10:48:49	11.41	152.6	2.04	8.49	65
18	09/25/14 10:49:09	11.41	178.0	2.01	8.46	66
19	09/25/14 10:49:29	11.41	156.5	2.00	8.47	66
20	09/25/14 10:49:49	11.40	168.5	1.99	8.47	66
21	09/25/14 10:50:09	11.41	157.3	1.97	8.45	66
22	09/25/14 10:50:29	11.42	154.1	1.96	8.46	66
23	09/25/14 10:50:49	11.43	160.0	1.97	8.45	66
24	09/25/14 10:51:09	11.44	145.4	1.96	8.45	66
25	09/25/14 10:51:29	11.45	160.5	1.93	8.44	67
26	09/25/14 10:51:49	11.46	170.3	1.93	8.44	67
27	09/25/14 10:52:09	11.48	170.6	1.93	8.44	67
28	09/25/14 10:52:29	11.50	168.9	1.92	8.44	67
29	09/25/14 10:52:49	11.53	156.2	1.91	8.45	68
30	09/25/14 10:53:09	11.56	146.5	1.93	8.44	68
31	09/25/14 10:53:29	11.57	164.6	1.91	8.44	68
32	09/25/14 10:53:49	11.59	166.3	1.88	8.45	68
33	09/25/14 10:54:09	11.59	163.9	1.89	8.45	68

KW-25D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
34	09/25/14 10:54:29	11.59	141.5	1.90	8.45	68
35	09/25/14 10:54:49	11.60	144.1	1.93	8.43	69
36	09/25/14 10:55:09	11.61	158.7	1.95	8.43	69
37	09/25/14 10:55:29	11.62	166.7	1.95	8.43	69
38	09/25/14 10:55:49	11.63	139.2	1.93	8.45	69
39	09/25/14 10:56:09	11.63	146.3	1.98	8.46	69
40	09/25/14 10:56:29	11.63	155.9	2.00	8.46	69
41	09/25/14 10:56:49	11.64	158.4	2.03	8.45	70
42	09/25/14 10:57:09	11.64	138.7	2.02	8.43	70
43	09/25/14 10:57:29	11.65	163.4	2.06	8.45	70
44	09/25/14 10:57:49	11.66	150.1	2.08	8.45	70
45	09/25/14 10:58:09	11.67	143.4	2.10	8.43	71
46	09/25/14 10:58:29	11.68	151.6	2.11	8.41	71
47	09/25/14 10:58:49	11.69	161.9	2.11	8.40	71
48	09/25/14 10:59:09	11.71	141.6	2.12	8.41	71
49	09/25/14 10:59:29	11.71	133.6	2.16	8.42	72
50	09/25/14 10:59:49	11.72	147.6	2.18	8.41	72
51	09/25/14 11:00:09	11.73	125.2	2.20	8.39	72
52	09/25/14 11:00:29	11.75	160.7	2.22	8.41	73
53	09/25/14 11:00:49	11.76	146.7	2.22	8.38	73
54	09/25/14 11:01:09	11.78	125.5	2.28	8.38	74
55	09/25/14 11:01:29	11.79	139.1	2.27	8.39	74
56	09/25/14 11:01:49	11.79	152.5	2.31	8.37	74
57	09/25/14 11:02:09	11.80	123.3	2.35	8.39	74
58	09/25/14 11:02:29	11.80	129.5	2.35	8.39	74
59	09/25/14 11:02:49	11.81	140.6	2.35	8.38	75
60	09/25/14 11:03:09	11.81	145.6	2.40	8.36	75
61	09/25/14 11:03:29	11.83	136.7	2.38	8.36	75
62	09/25/14 11:03:49	11.84	128.3	2.39	8.35	75
63	09/25/14 11:04:09	11.85	129.1	2.41	8.34	76
64	09/25/14 11:04:29	11.87	143.4	2.41	8.35	76

KW-25D.DAT



Date/Time(MDDYY)

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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-38i-0914
Volatile bottles preserved by: SB 09/18/14 OSCT 2725
Sampled by: SF

Date: 9.25.14
Time: 12:48 pm
Weather: Sunny

Top of casing elevation: 644.74 ft Calculated top of casing: 644.76 ft

Depth to well bottom: 29.65 93.22 ft

Depth to static water level: ft Height of water column, H: 63.57 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 9.7 gallons

Volume of water evacuated: 3 .31 gallons

Depth to static water level after purging: 29.65
Did well recover? (YES) NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:15		29.78	10.46	8.29	4.19	207	60.7	83.2
2	12:30		29.78	10.31	7.91	1.17	219	35.1	-85.5
3	12:33		29.78	10.38	7.90	1.12	218	31.6	-135.7
4	12:36		29.78	10.30	7.92	1.06	220	30.9	-155.8
5			29.78	10.33	7.89	1.05	226	28.4	-139.1
6									
7									
8									

Sample color: Slightly Cloudy
Sample turbidity: Low
Sample odor: YES (NO) PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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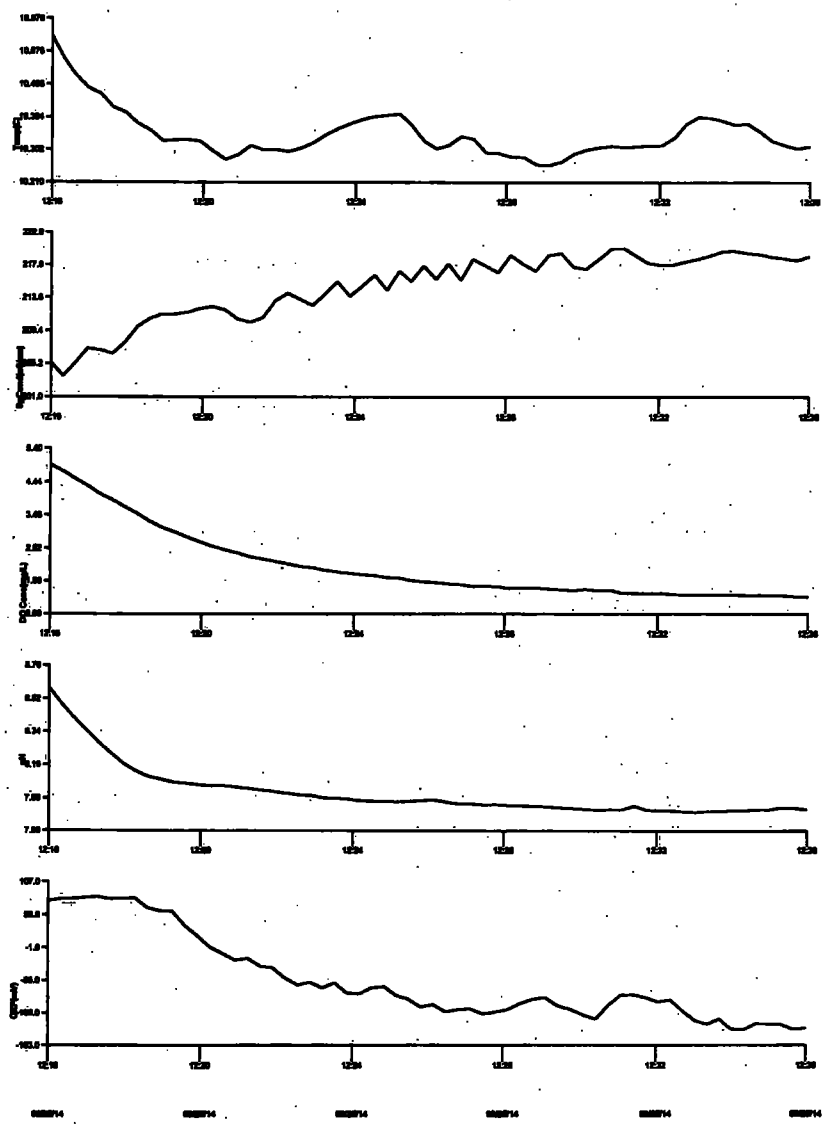
MW-38I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/25/14 12:16:02	10.62	205.2	4.97	8.58	78
2	09/25/14 12:16:22	10.56	203.4	4.77	8.50	80
3	09/25/14 12:16:42	10.51	205.1	4.56	8.42	82
4	09/25/14 12:17:02	10.48	207.0	4.36	8.35	83
5	09/25/14 12:17:22	10.46	206.8	4.11	8.28	84
6	09/25/14 12:17:42	10.42	206.3	3.93	8.22	81
7	09/25/14 12:18:02	10.41	207.8	3.72	8.16	81
8	09/25/14 12:18:22	10.37	209.8	3.53	8.12	82
9	09/25/14 12:18:42	10.35	210.9	3.31	8.09	66
10	09/25/14 12:19:02	10.32	211.4	3.12	8.08	61
11	09/25/14 12:19:22	10.33	211.5	2.99	8.06	60
12	09/25/14 12:19:42	10.33	211.7	2.84	8.06	36
13	09/25/14 12:20:02	10.32	212.1	2.70	8.05	19
14	09/25/14 12:20:22	10.29	212.4	2.57	8.04	-0
15	09/25/14 12:20:42	10.27	212.0	2.46	8.04	-11
16	09/25/14 12:21:02	10.28	210.8	2.36	8.03	-22
17	09/25/14 12:21:22	10.31	210.4	2.26	8.03	-19
18	09/25/14 12:21:42	10.30	211.0	2.19	8.02	-33
19	09/25/14 12:22:02	10.30	213.2	2.11	8.01	-36
20	09/25/14 12:22:22	10.29	214.2	2.05	8.00	-52
21	09/25/14 12:22:42	10.30	213.4	1.97	7.99	-64
22	09/25/14 12:23:02	10.32	212.6	1.93	7.99	-60
23	09/25/14 12:23:22	10.34	214.1	1.86	7.98	-69
24	09/25/14 12:23:42	10.36	215.7	1.81	7.97	-61
25	09/25/14 12:24:02	10.37	213.8	1.75	7.97	-78
26	09/25/14 12:24:22	10.39	215.1	1.72	7.96	-79
27	09/25/14 12:24:42	10.39	216.5	1.69	7.96	-69
28	09/25/14 12:25:02	10.40	214.6	1.63	7.95	-67
29	09/25/14 12:25:22	10.40	217.1	1.61	7.95	-82
30	09/25/14 12:25:42	10.37	215.8	1.55	7.96	-88
31	09/25/14 12:26:02	10.32	217.8	1.50	7.96	-101

MW-38I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
32	09/25/14 12:26:22	10.30	216.0	1.48	7.96	-97
33	09/25/14 12:26:42	10.31	218.0	1.44	7.95	-109
34	09/25/14 12:27:02	10.34	215.9	1.42	7.94	-106
35	09/25/14 12:27:22	10.33	218.6	1.37	7.94	-104
36	09/25/14 12:27:42	10.29	217.8	1.37	7.94	-113
37	09/25/14 12:28:02	10.29	216.9	1.36	7.94	-110
38	09/25/14 12:28:22	10.28	219.2	1.31	7.93	-106
39	09/25/14 12:28:42	10.28	218.0	1.32	7.93	-95
40	09/25/14 12:29:02	10.26	217.1	1.32	7.93	-88
41	09/25/14 12:29:22	10.25	219.2	1.29	7.93	-85
42	09/25/14 12:29:42	10.26	219.5	1.27	7.92	-99
43	09/25/14 12:30:02	10.29	217.6	1.24	7.92	-105
44	09/25/14 12:30:22	10.30	217.3	1.28	7.91	-115
45	09/25/14 12:30:42	10.30	218.7	1.24	7.91	-121
46	09/25/14 12:31:02	10.31	220.1	1.25	7.91	-98
47	09/25/14 12:31:22	10.31	220.1	1.16	7.91	-81
48	09/25/14 12:31:42	10.31	219.1	1.16	7.93	-81
49	09/25/14 12:32:02	10.31	218.1	1.15	7.91	-85
50	09/25/14 12:32:22	10.31	217.9	1.15	7.91	-92
51	09/25/14 12:32:42	10.33	218.0	1.13	7.90	-89
52	09/25/14 12:33:02	10.37	218.3	1.12	7.90	-108
53	09/25/14 12:33:22	10.39	218.7	1.12	7.90	-124
54	09/25/14 12:33:42	10.39	219.1	1.12	7.90	-130
55	09/25/14 12:34:02	10.38	219.7	1.11	7.90	-122
56	09/25/14 12:34:22	10.37	219.8	1.11	7.90	-139
57	09/25/14 12:34:42	10.37	219.5	1.10	7.90	-140
58	09/25/14 12:35:02	10.35	219.3	1.10	7.91	-130
59	09/25/14 12:35:22	10.32	219.0	1.09	7.91	-130
60	09/25/14 12:35:42	10.31	218.8	1.09	7.92	-131
61	09/25/14 12:36:02	10.30	218.5	1.06	7.92	-139
62	09/25/14 12:36:22	10.31	219.0	1.06	7.91	-137

MW-38I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-3d-0914
Volatile bottles preserved by: JB 09/15/14 0SCI 2725
Sampled by: CJ

Date: 9.25.14
Time: 1:25 pm
Weather: Sunny

Top of casing elevation: 638.44 ft Calculated top of casing: 638.46 ft

Depth to well bottom: 31.15 86.32 ft

Depth to static water level: ft Height of water column, H: 55.17 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 8.4 gallons

Volume of water evacuated: 2.5 .30wc gallons

Depth to static water level after purging: 47.97 16.82' = 2.5 gals
Did well recover? YES (NO) 0% recovery

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1			33.97	10.94	7.65	5.26	365	100.4	-46.3
2	1:15		41.49	10.75	8.05	1.19	360	101.5	-176.8
3	1:18		43.07	10.80	8.05	1.40	359	104.3	-194.2
4	1:21		43.90	10.78	8.05	1.45	360	102.3	-196.2
5	1:24		44.96	10.83	8.05	1.72	359	106.2	-203.3
6									
7									
8									

Sample color: Dirty
Sample turbidity:
Sample odor: YES NO PID reading:
Other observations: Mild Comments:

Additional comments on methodology, etc.: Slowed to 200 mL/min

Signature:

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K-3d-0212.xls

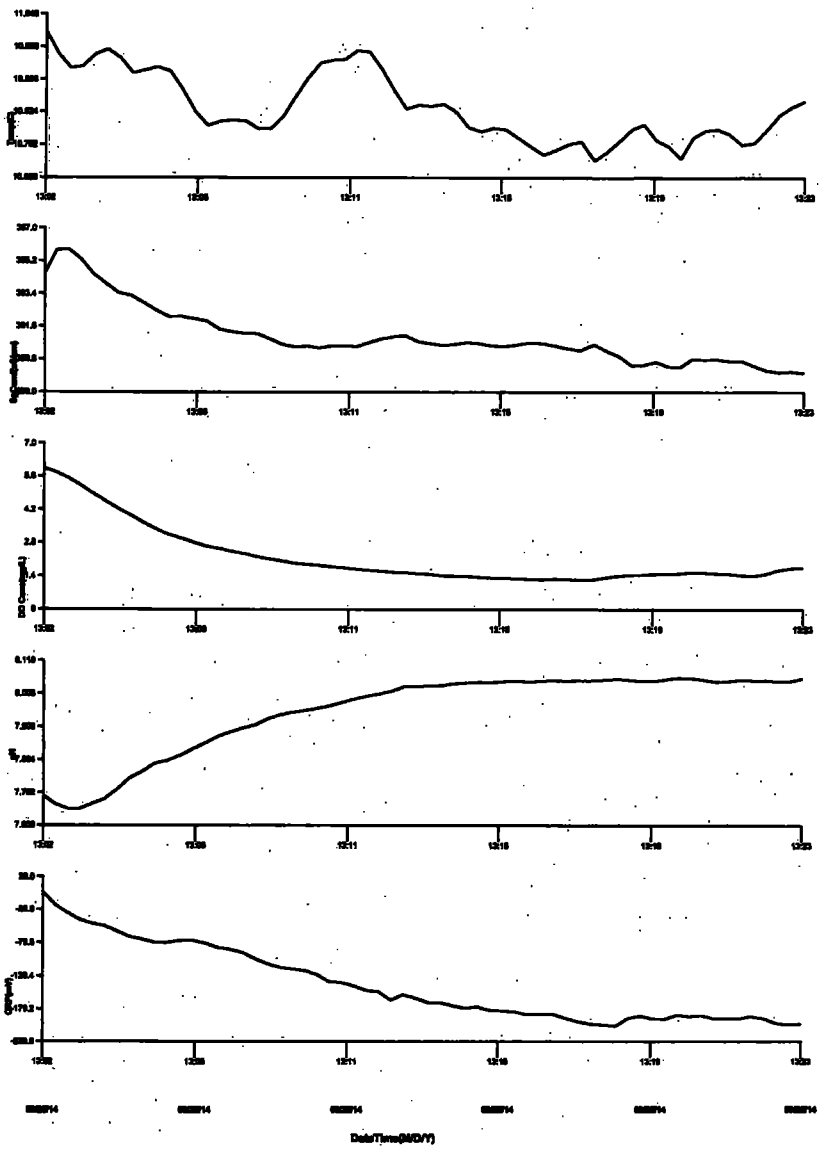
K-3D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/25/14 13:02:53	11.00	364.5	5.98	7.69	-2
2	09/25/14 13:03:13	10.95	365.8	5.80	7.66	-21
3	09/25/14 13:03:33	10.92	365.9	5.54	7.65	-34
4	09/25/14 13:03:53	10.93	365.3	5.23	7.65	-44
5	09/25/14 13:04:13	10.95	364.5	4.88	7.66	-51
6	09/25/14 13:04:33	10.96	363.9	4.56	7.68	-54
7	09/25/14 13:04:53	10.94	363.4	4.24	7.71	-62
8	09/25/14 13:05:13	10.91	363.3	3.94	7.74	-71
9	09/25/14 13:05:33	10.92	362.9	3.64	7.77	-75
10	09/25/14 13:05:53	10.92	362.4	3.38	7.79	-79
11	09/25/14 13:06:13	10.92	362.1	3.13	7.80	-79
12	09/25/14 13:06:33	10.87	362.1	2.95	7.82	-77
13	09/25/14 13:06:53	10.82	362.0	2.78	7.84	-76
14	09/25/14 13:07:13	10.79	361.9	2.62	7.85	-80
15	09/25/14 13:07:33	10.80	361.4	2.53	7.88	-87
16	09/25/14 13:07:53	10.80	361.2	2.40	7.89	-90
17	09/25/14 13:08:13	10.80	361.2	2.30	7.90	-94
18	09/25/14 13:08:33	10.78	361.1	2.17	7.91	-103
19	09/25/14 13:08:53	10.78	360.9	2.07	7.93	-112
20	09/25/14 13:09:13	10.81	360.5	1.99	7.94	-117
21	09/25/14 13:09:33	10.86	360.4	1.90	7.95	-120
22	09/25/14 13:09:53	10.90	360.4	1.85	7.96	-122
23	09/25/14 13:10:13	10.93	360.4	1.81	7.96	-129
24	09/25/14 13:10:33	10.94	360.5	1.75	7.97	-139
25	09/25/14 13:10:53	10.94	360.5	1.71	7.98	-141
26	09/25/14 13:11:13	10.96	360.4	1.65	7.99	-146
27	09/25/14 13:11:33	10.96	360.6	1.60	8.00	-153
28	09/25/14 13:11:53	10.92	360.8	1.56	8.01	-154
29	09/25/14 13:12:13	10.87	361.0	1.51	8.02	-168
30	09/25/14 13:12:33	10.83	361.0	1.50	8.03	-159
31	09/25/14 13:12:53	10.84	360.7	1.46	8.03	-164

K-3D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
32	09/25/14 13:13:13	10.84	360.6	1.42	8.04	-171
33	09/25/14 13:13:33	10.84	360.5	1.37	8.04	-171
34	09/25/14 13:13:53	10.82	360.5	1.35	8.04	-176
35	09/25/14 13:14:13	10.79	360.7	1.34	8.04	-179
36	09/25/14 13:14:33	10.78	360.6	1.31	8.05	-178
37	09/25/14 13:14:53	10.79	360.5	1.28	8.05	-183
38	09/25/14 13:15:13	10.78	360.4	1.28	8.05	-184
39	09/25/14 13:15:33	10.76	360.5	1.25	8.05	-185
40	09/25/14 13:15:53	10.75	360.6	1.22	8.05	-190
41	09/25/14 13:16:13	10.73	360.6	1.21	8.05	-188
42	09/25/14 13:16:33	10.74	360.5	1.23	8.05	-189
43	09/25/14 13:16:53	10.75	360.3	1.22	8.05	-195
44	09/25/14 13:17:13	10.76	360.2	1.19	8.05	-201
45	09/25/14 13:17:33	10.71	360.5	1.20	8.05	-205
46	09/25/14 13:17:53	10.73	360.2	1.30	8.05	-206
47	09/25/14 13:18:13	10.76	359.9	1.35	8.06	-208
48	09/25/14 13:18:33	10.78	359.4	1.41	8.05	-195
49	09/25/14 13:18:53	10.79	359.4	1.41	8.05	-192
50	09/25/14 13:19:13	10.76	359.6	1.43	8.05	-196
51	09/25/14 13:19:33	10.75	359.3	1.44	8.06	-197
52	09/25/14 13:19:53	10.72	359.3	1.46	8.06	-191
53	09/25/14 13:20:13	10.76	359.7	1.52	8.06	-193
54	09/25/14 13:20:33	10.78	359.7	1.50	8.05	-191
55	09/25/14 13:20:53	10.78	359.7	1.46	8.05	-196
56	09/25/14 13:21:13	10.77	359.6	1.44	8.05	-196
57	09/25/14 13:21:33	10.75	359.6	1.40	8.05	-196
58	09/25/14 13:21:53	10.75	359.3	1.36	8.05	-193
59	09/25/14 13:22:13	10.78	359.1	1.42	8.05	-196
60	09/25/14 13:22:33	10.81	359.0	1.60	8.05	-204
61	09/25/14 13:22:53	10.83	359.0	1.68	8.05	-206
62	09/25/14 13:23:13	10.85	359.0	1.71	8.06	-205

K-3D.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-35d-0914
Volatile bottles preserved by: JB 09/18/14 acct 2725
Sampled by: GP

Date: 9-25-14
Time: 2:10 pm
Weather: cloudy

Top of casing elevation: 646.04 ft Calculated top of casing: 646.24 ft

Depth to well bottom: 12.90 102.2 ft

Depth to static water level: ft Height of water column, H: 89.3 ft

Diameter of well casing, D: 4 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .597 gal/ft. 53.3 gallons

Volume of water evacuated: 3 .06 ea gallons

Depth to static water level after purging: 15.45 2.55' → 1.5 gal
= 59% recovery
Did well recover? YES (NO)

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:46		13.85	11.73	7.45	6.99	228	232	165
2	2		15.78	11.43	7.82	1.44	226	192	-202.2
3	2:03		15.90	11.38	7.87	1.26	226	127	-200.4
4	2:06		16.95	11.36	7.88	1.20	225	124	-211.6
5									
6									
7									
8									

Sample color: Dark
Sample turbidity: High
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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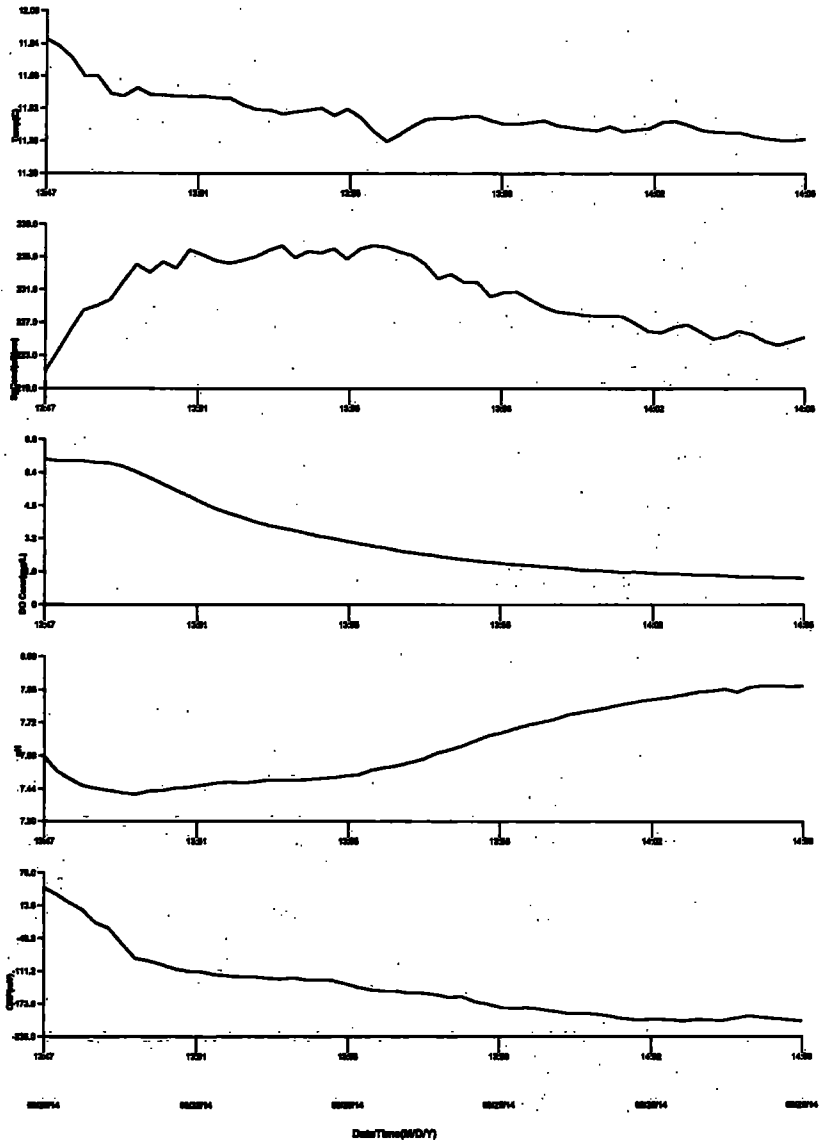
W-35D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/25/14 13:47:16	11.87	220.8	7.09	7.57	50
2	09/25/14 13:47:36	11.83	223.3	7.00	7.51	36
3	09/25/14 13:47:56	11.77	226.0	6.99	7.48	20
4	09/25/14 13:48:16	11.68	228.4	7.00	7.45	6
5	09/25/14 13:48:36	11.68	229.0	6.92	7.44	-19
6	09/25/14 13:48:56	11.59	229.7	6.88	7.43	-29
7	09/25/14 13:49:16	11.58	232.0	6.72	7.42	-59
8	09/25/14 13:49:36	11.62	234.1	6.45	7.41	-88
9	09/25/14 13:49:56	11.59	233.1	6.18	7.43	-92
10	09/25/14 13:50:16	11.58	234.5	5.88	7.43	-99
11	09/25/14 13:50:36	11.58	233.7	5.56	7.44	-108
12	09/25/14 13:50:56	11.58	235.9	5.26	7.44	-113
13	09/25/14 13:51:16	11.58	235.3	4.95	7.45	-114
14	09/25/14 13:51:36	11.57	234.6	4.65	7.46	-119
15	09/25/14 13:51:56	11.57	234.3	4.42	7.46	-122
16	09/25/14 13:52:16	11.53	234.6	4.22	7.46	-123
17	09/25/14 13:52:36	11.51	235.1	4.00	7.47	-123
18	09/25/14 13:52:56	11.51	235.9	3.82	7.47	-126
19	09/25/14 13:53:16	11.49	236.5	3.68	7.47	-128
20	09/25/14 13:53:36	11.50	235.0	3.56	7.47	-126
21	09/25/14 13:53:56	11.51	235.8	3.41	7.48	-129
22	09/25/14 13:54:16	11.52	235.6	3.27	7.48	-129
23	09/25/14 13:54:36	11.48	236.1	3.16	7.48	-130
24	09/25/14 13:54:56	11.51	234.8	3.03	7.49	-137
25	09/25/14 13:55:16	11.47	236.1	2.92	7.50	-144
26	09/25/14 13:55:36	11.40	236.5	2.80	7.52	-149
27	09/25/14 13:55:56	11.35	236.3	2.70	7.53	-151
28	09/25/14 13:56:16	11.39	235.7	2.56	7.54	-151
29	09/25/14 13:56:36	11.43	235.3	2.47	7.55	-155
30	09/25/14 13:56:56	11.46	234.2	2.39	7.56	-155

W-35D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	09/25/14 13:57:16	11.47	232.4	2.31	7.59	-158
32	09/25/14 13:57:36	11.47	232.9	2.21	7.60	-164
33	09/25/14 13:57:56	11.48	231.9	2.13	7.62	-162
34	09/25/14 13:58:16	11.48	231.9	2.05	7.64	-172
35	09/25/14 13:58:36	11.46	230.1	2.00	7.66	-177
36	09/25/14 13:58:56	11.44	230.7	1.93	7.68	-184
37	09/25/14 13:59:16	11.44	230.7	1.88	7.69	-185
38	09/25/14 13:59:36	11.45	229.8	1.82	7.71	-183
39	09/25/14 13:59:56	11.46	228.9	1.79	7.72	-187
40	09/25/14 14:00:16	11.43	228.3	1.73	7.74	-191
41	09/25/14 14:00:36	11.42	228.1	1.69	7.76	-194
42	09/25/14 14:00:56	11.41	227.8	1.61	7.77	-194
43	09/25/14 14:01:16	11.41	227.8	1.60	7.77	-196
44	09/25/14 14:01:36	11.43	227.7	1.56	7.79	-199
45	09/25/14 14:01:56	11.40	227.7	1.51	7.80	-204
46	09/25/14 14:02:16	11.41	226.8	1.52	7.81	-207
47	09/25/14 14:02:36	11.42	225.8	1.47	7.82	-207
48	09/25/14 14:02:56	11.45	225.7	1.43	7.83	-206
49	09/25/14 14:03:16	11.45	226.3	1.43	7.83	-208
50	09/25/14 14:03:36	11.43	226.7	1.41	7.84	-209
51	09/25/14 14:03:56	11.41	225.8	1.36	7.85	-207
52	09/25/14 14:04:16	11.40	224.9	1.36	7.86	-208
53	09/25/14 14:04:36	11.40	225.2	1.32	7.87	-208
54	09/25/14 14:04:56	11.40	225.9	1.29	7.85	-204
55	09/25/14 14:05:16	11.38	225.5	1.29	7.87	-200
56	09/25/14 14:05:36	11.37	224.6	1.28	7.88	-203
57	09/25/14 14:05:56	11.36	224.2	1.24	7.88	-205
58	09/25/14 14:06:16	11.36	224.6	1.24	7.88	-208
59	09/25/14 14:06:36	11.36	225.1	1.20	7.88	-209

W-35D.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-23d-0914
Volatile bottles preserved by: JB 09/18/14 ESC 2725
Sampled by: fl

Date: 9-26-14
Time: 8:31 am
Weather: cool

Top of casing elevation: 643.46 ft Calculated top of casing: 643.49 ft

Depth to well bottom: 13.00 51.83 ft

Depth to static water level: ~~38.85~~ ft Height of water column, H: 38.83 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 3.57 gallons

Volume of water evacuated: 2.5 .70 WC gallons

18.21' → 1.67 gals
33% recovery 700

Depth to static water level after purging: 31.36
Did well recover? YES (NO)

Method of evacuation: Bladder Purge Flow Rate: ~~400~~ mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:10		17.35	10.48	6.95	2.07	777	61.9	-43.9
2	8:25		25.75	10.26	7.19	2.06	783	19.3	-131.5
3	8:28		26.20	10.25	7.21	2.01	787	17.4	-132.1
4	8:31		27.30	10.25	7.26	2.90	394	15.3	-130.1
5									
6									
7									
8									

Sample color: slightly cloudy
Sample turbidity: low
Sample odor: YES (NO) PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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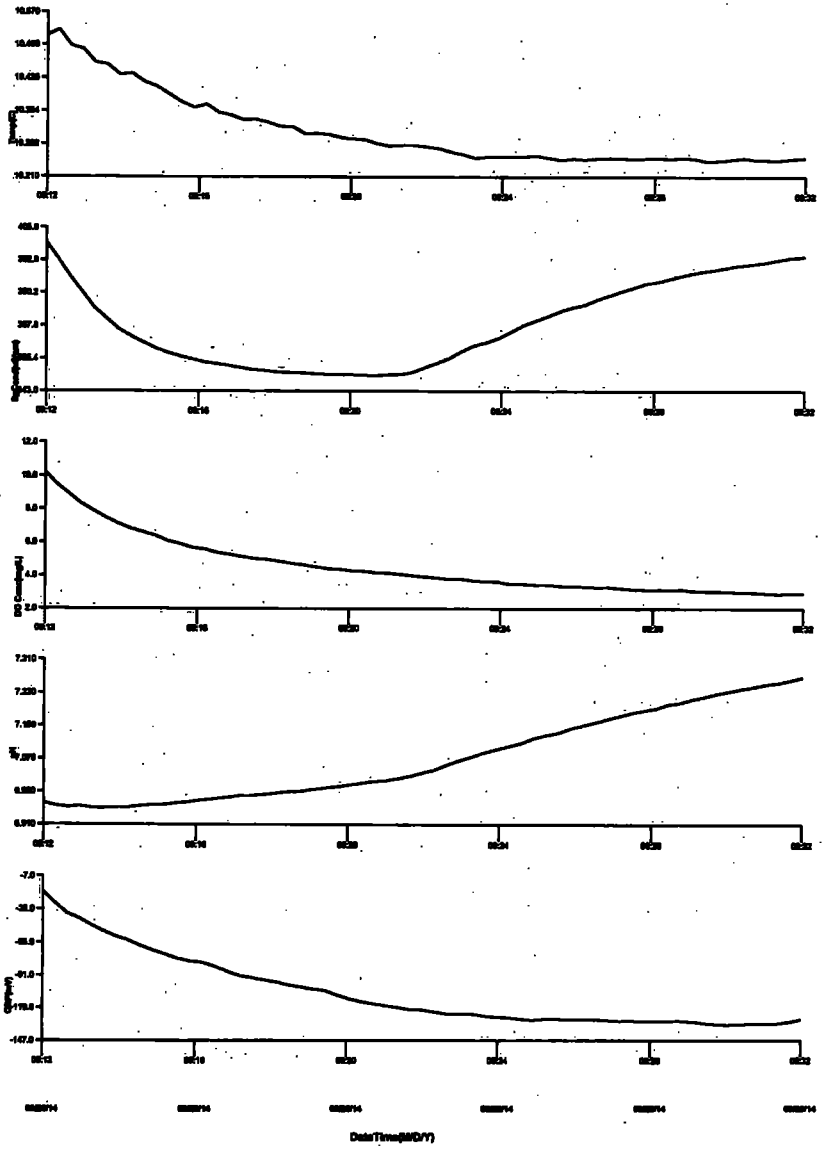
W-23D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/26/14 08:12:17	10.52	399.8	10.27	6.96	-19
2	09/26/14 08:12:37	10.53	393.3	9.49	6.95	-29
3	09/26/14 08:12:57	10.50	386.3	8.91	6.95	-38
4	09/26/14 08:13:17	10.49	380.5	8.32	6.95	-42
5	09/26/14 08:13:37	10.46	374.3	7.89	6.95	-48
6	09/26/14 08:13:57	10.46	370.3	7.46	6.95	-53
7	09/26/14 08:14:17	10.43	366.2	7.11	6.95	-58
8	09/26/14 08:14:37	10.44	363.4	6.79	6.95	-61
9	09/26/14 08:14:57	10.42	361.0	6.59	6.95	-66
10	09/26/14 08:15:17	10.41	358.8	6.38	6.95	-70
11	09/26/14 08:15:37	10.39	357.1	6.05	6.96	-73
12	09/26/14 08:15:57	10.37	355.7	5.87	6.96	-77
13	09/26/14 08:16:17	10.36	354.7	5.64	6.96	-79
14	09/26/14 08:16:37	10.37	353.5	5.53	6.97	-80
15	09/26/14 08:16:57	10.35	352.9	5.34	6.97	-84
16	09/26/14 08:17:17	10.34	352.1	5.22	6.97	-88
17	09/26/14 08:17:37	10.33	351.3	5.09	6.98	-92
18	09/26/14 08:17:57	10.33	350.6	4.97	6.98	-94
19	09/26/14 08:18:17	10.33	350.1	4.90	6.98	-96
20	09/26/14 08:18:37	10.32	349.7	4.80	6.98	-97
21	09/26/14 08:18:57	10.32	349.5	4.67	6.99	-100
22	09/26/14 08:19:17	10.30	349.4	4.57	6.99	-102
23	09/26/14 08:19:37	10.30	349.1	4.46	6.99	-103
24	09/26/14 08:19:57	10.30	348.9	4.36	7.00	-105
25	09/26/14 08:20:17	10.29	348.8	4.29	7.00	-109
26	09/26/14 08:20:37	10.29	348.6	4.21	7.00	-112
27	09/26/14 08:20:57	10.29	348.5	4.18	7.01	-115
28	09/26/14 08:21:17	10.28	348.4	4.10	7.01	-116
29	09/26/14 08:21:37	10.28	348.6	4.08	7.01	-118
30	09/26/14 08:21:57	10.28	348.8	4.01	7.02	-120
31	09/26/14 08:22:17	10.28	349.6	3.92	7.02	-121
32	09/26/14 08:22:37	10.27	351.5	3.86	7.03	-122

W-23D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	09/26/14 08:22:57	10.27	353.2	3.79	7.04	-123
34	09/26/14 08:23:17	10.26	355.0	3.73	7.05	-125
35	09/26/14 08:23:37	10.26	357.7	3.71	7.06	-125
36	09/26/14 08:23:57	10.25	359.9	3.62	7.07	-125
37	09/26/14 08:24:17	10.25	361.1	3.57	7.08	-127
38	09/26/14 08:24:37	10.25	362.8	3.53	7.09	-128
39	09/26/14 08:24:57	10.25	365.2	3.42	7.10	-129
40	09/26/14 08:25:17	10.25	367.7	3.40	7.11	-130
41	09/26/14 08:25:37	10.25	369.5	3.37	7.12	-131
42	09/26/14 08:25:57	10.25	371.2	3.36	7.13	-130
43	09/26/14 08:26:17	10.24	373.3	3.30	7.13	-130
44	09/26/14 08:26:37	10.25	374.6	3.27	7.14	-130
45	09/26/14 08:26:57	10.25	375.7	3.26	7.15	-130
46	09/26/14 08:27:17	10.25	377.7	3.21	7.16	-130
47	09/26/14 08:27:37	10.25	379.3	3.23	7.17	-131
48	09/26/14 08:27:57	10.25	380.9	3.15	7.17	-131
49	09/26/14 08:28:17	10.25	382.3	3.08	7.18	-131
50	09/26/14 08:28:37	10.25	383.8	3.07	7.19	-132
51	09/26/14 08:28:57	10.25	384.6	3.07	7.19	-132
52	09/26/14 08:29:17	10.25	385.9	3.06	7.20	-131
53	09/26/14 08:29:37	10.25	387.0	3.07	7.21	-131
54	09/26/14 08:29:57	10.25	388.1	3.00	7.22	-132
55	09/26/14 08:30:17	10.24	388.8	2.96	7.22	-134
56	09/26/14 08:30:37	10.24	389.5	2.95	7.23	-134
57	09/26/14 08:30:57	10.25	390.4	2.93	7.23	-135
58	09/26/14 08:31:17	10.25	391.1	2.89	7.24	-135
59	09/26/14 08:31:37	10.25	391.5	2.89	7.25	-134
60	09/26/14 08:31:57	10.24	392.3	2.85	7.25	-134
61	09/26/14 08:32:17	10.24	393.2	2.80	7.26	-134
62	09/26/14 08:32:37	10.25	394.0	2.84	7.26	-133
63	09/26/14 08:32:57	10.25	394.5	2.83	7.27	-130

W-23D.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-6d-0914
Volatile bottles preserved by: SB 09/18/14 03cI 2225
Sampled by: AJ

Date: 9-26-14
Time: 9:30am
Weather: sunny

Top of casing elevation: 652.28 ft Calculated top of casing: 652.31 ft

Depth to well bottom: 7.37 65.93 ft

Depth to static water level: ft Height of water column, H: 58.56 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 5.4 gallons

Volume of water evacuated: 3 .5b wc gallons
44.85' → 4 gals

Depth to static water level after purging: 52.22 NO RECOVERY
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: ~~400~~ 500 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft.	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:05		13.60	10.49	7.17	6.71	330	69.0	-116.3
2	9:20		36.10	10.35	7.44	2.25	325	11.8	-122.2
3	9:23		39.10	10.37	7.50	2.22	326	10.13	-122.4
4	9:26		42.90	10.39	7.56	2.19	319	10.58	-124.3
5									
6									
7									
8									

Sample color: Blight Cloudy
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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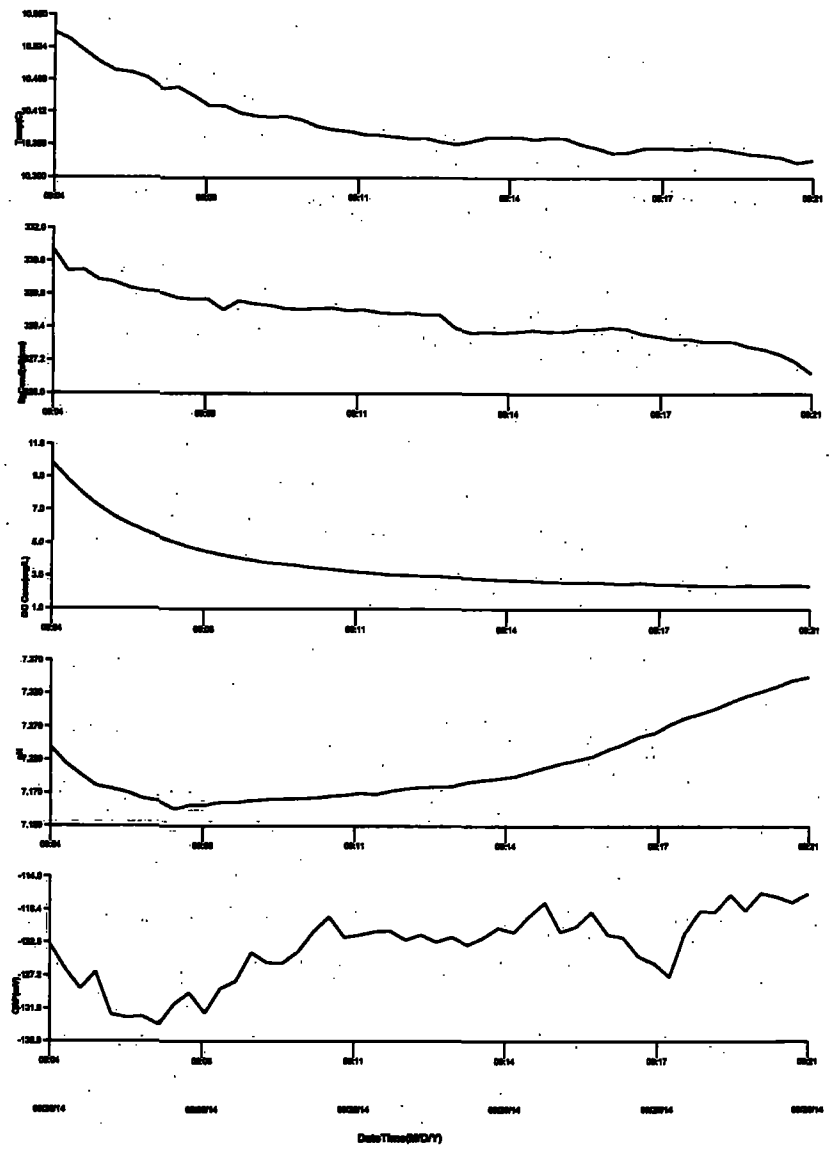
W-6D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/26/14 09:04:53	10.55	331.3	9.92	7.24	-123
2	09/26/14 09:05:13	10.54	330.4	8.89	7.21	-126
3	09/26/14 09:05:33	10.52	330.5	7.98	7.20	-129
4	09/26/14 09:05:53	10.50	330.1	7.24	7.18	-127
5	09/26/14 09:06:13	10.48	330.0	6.61	7.17	-133
6	09/26/14 09:06:33	10.48	329.8	6.12	7.17	-133
7	09/26/14 09:06:53	10.47	329.7	5.67	7.16	-133
8	09/26/14 09:07:13	10.45	329.7	5.29	7.16	-134
9	09/26/14 09:07:33	10.46	329.5	5.00	7.14	-131
10	09/26/14 09:07:53	10.44	329.4	4.67	7.15	-130
11	09/26/14 09:08:13	10.42	329.4	4.44	7.15	-132
12	09/26/14 09:08:33	10.42	329.0	4.23	7.15	-129
13	09/26/14 09:08:53	10.41	329.4	4.06	7.15	-128
14	09/26/14 09:09:13	10.40	329.2	3.90	7.16	-124
15	09/26/14 09:09:33	10.40	329.2	3.76	7.16	-126
16	09/26/14 09:09:53	10.40	329.1	3.67	7.16	-126
17	09/26/14 09:10:13	10.40	329.0	3.57	7.16	-124
18	09/26/14 09:10:33	10.39	329.1	3.43	7.16	-121
19	09/26/14 09:10:53	10.38	329.1	3.35	7.16	-119
20	09/26/14 09:11:13	10.38	329.0	3.24	7.17	-122
21	09/26/14 09:11:33	10.37	329.0	3.16	7.17	-122
22	09/26/14 09:11:53	10.37	328.9	3.08	7.17	-121
23	09/26/14 09:12:13	10.37	328.9	3.01	7.17	-121
24	09/26/14 09:12:33	10.36	328.9	2.98	7.18	-122
25	09/26/14 09:12:53	10.37	328.8	2.94	7.18	-122

W-6D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/26/14 09:13:13	10.36	328.9	2.93	7.18	-123
27	09/26/14 09:13:33	10.35	328.4	2.85	7.18	-122
28	09/26/14 09:13:53	10.36	328.2	2.80	7.19	-123
29	09/26/14 09:14:13	10.37	328.2	2.76	7.19	-122
30	09/26/14 09:14:33	10.37	328.2	2.71	7.19	-121
31	09/26/14 09:14:53	10.37	328.2	2.67	7.19	-121
32	09/26/14 09:15:13	10.36	328.3	2.64	7.20	-119
33	09/26/14 09:15:33	10.37	328.2	2.59	7.21	-117
34	09/26/14 09:15:53	10.37	328.2	2.57	7.21	-121
35	09/26/14 09:16:13	10.36	328.3	2.57	7.22	-121
36	09/26/14 09:16:33	10.35	328.3	2.56	7.22	-119
37	09/26/14 09:16:53	10.34	328.4	2.49	7.24	-122
38	09/26/14 09:17:13	10.34	328.3	2.47	7.24	-122
39	09/26/14 09:17:33	10.35	328.1	2.50	7.26	-125
40	09/26/14 09:17:53	10.35	328.1	2.45	7.26	-126
41	09/26/14 09:18:13	10.35	328.0	2.42	7.28	-127
42	09/26/14 09:18:33	10.35	328.0	2.38	7.28	-122
43	09/26/14 09:18:53	10.35	327.9	2.36	7.29	-119
44	09/26/14 09:19:13	10.35	327.9	2.36	7.30	-119
45	09/26/14 09:19:33	10.34	327.8	2.32	7.31	-116
46	09/26/14 09:19:53	10.34	327.7	2.37	7.32	-118
47	09/26/14 09:20:13	10.34	327.6	2.35	7.33	-116
48	09/26/14 09:20:33	10.33	327.4	2.36	7.33	-117
49	09/26/14 09:20:53	10.32	327.1	2.37	7.34	-117
50	09/26/14 09:21:13	10.33	326.7	2.32	7.35	-116

W-6D.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-13d-0914
Volatile bottles preserved by: SS 09/18/14 case 2725
Sampled by: gp

Date: 9.26.14
Time: 10:30 am
Weather: sunny

Top of casing elevation: 652.99 ft Calculated top of casing: 653.02 ft

Depth to well bottom: 10.65 77.03 ft

Depth to static water level: ft Height of water column, H: 66.38 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 6.1 gallons

Volume of water evacuated: 7.5 4 vol gallons

Depth to static water level after purging: 19.6 8.51' → .78 gals
Did well recover? YES (NO) per 69% recovery

Method of evacuation: Bladder Purge Flow Rate: ~~400~~ 300 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:05		16.75	10.79	9.08	7.33	235	64.3	-64.0
2	10:20		22.24	10.86	8.17	2.08	324	21.1	-75.6
3	10:23		22.50	10.89	8.12	2.04	331	17.6	-70.6
4	10:26		22.40	10.96	8.03	1.96	340	18.4	-75.0
5									
6									
7									
8									

Sample color: Cloudy
Sample turbidity: med
Sample odor: YES (NO) PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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W-13d-0212.xls

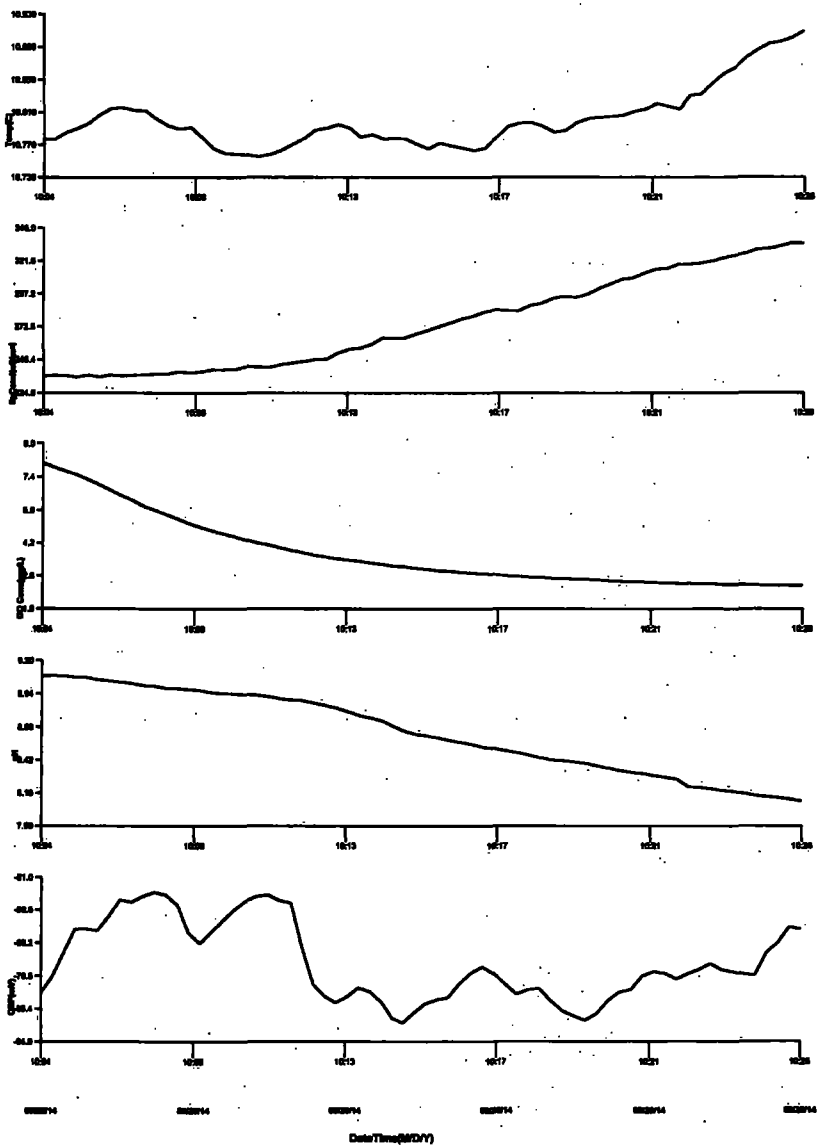
	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/26/14 10:04:04	10.78	235.0	8.10	9.09	-82
2	09/26/14 10:04:24	10.78	235.6	7.90	9.09	-77
3	09/26/14 10:04:44	10.78	235.5	7.73	9.09	-71
4	09/26/14 10:05:04	10.79	234.6	7.54	9.08	-65
5	09/26/14 10:05:24	10.80	235.8	7.29	9.07	-65
6	09/26/14 10:05:44	10.81	234.8	7.04	9.06	-65
7	09/26/14 10:06:04	10.81	236.0	6.79	9.05	-61
8	09/26/14 10:06:24	10.82	235.5	6.51	9.04	-57
9	09/26/14 10:06:44	10.81	236.0	6.27	9.03	-57
10	09/26/14 10:07:04	10.81	236.1	5.98	9.01	-56
11	09/26/14 10:07:24	10.80	236.9	5.78	9.01	-55
12	09/26/14 10:07:44	10.79	237.0	5.57	8.99	-55
13	09/26/14 10:08:04	10.79	238.5	5.33	8.99	-58
14	09/26/14 10:08:24	10.79	237.6	5.12	8.98	-66
15	09/26/14 10:08:44	10.78	238.7	4.93	8.97	-68
16	09/26/14 10:09:04	10.76	240.3	4.76	8.95	-65
17	09/26/14 10:09:24	10.76	240.1	4.62	8.95	-62
18	09/26/14 10:09:44	10.76	240.7	4.46	8.95	-59
19	09/26/14 10:10:04	10.76	242.4	4.31	8.94	-57
20	09/26/14 10:10:24	10.75	242.1	4.16	8.93	-56
21	09/26/14 10:10:44	10.76	241.9	4.06	8.92	-55
22	09/26/14 10:11:04	10.76	243.9	3.92	8.90	-57
23	09/26/14 10:11:24	10.77	245.1	3.77	8.90	-58
24	09/26/14 10:11:44	10.78	246.1	3.67	8.89	-69
25	09/26/14 10:12:04	10.79	247.4	3.54	8.87	-79

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/26/14 10:12:24	10.79	247.8	3.46	8.85	-82
27	09/26/14 10:12:44	10.79	252.3	3.36	8.83	-84
28	09/26/14 10:13:04	10.79	255.3	3.30	8.80	-83
29	09/26/14 10:13:24	10.78	256.3	3.24	8.77	-80
30	09/26/14 10:13:44	10.78	258.8	3.16	8.75	-81
31	09/26/14 10:14:04	10.78	264.0	3.09	8.73	-84
32	09/26/14 10:14:24	10.78	263.4	3.02	8.69	-88
33	09/26/14 10:14:44	10.78	263.9	2.97	8.65	-90
34	09/26/14 10:15:04	10.77	266.7	2.91	8.62	-87
35	09/26/14 10:15:24	10.76	269.3	2.84	8.61	-84
36	09/26/14 10:15:44	10.77	272.3	2.79	8.59	-83
37	09/26/14 10:16:04	10.77	274.9	2.76	8.57	-83
38	09/26/14 10:16:24	10.76	278.0	2.70	8.56	-79
39	09/26/14 10:16:44	10.76	280.2	2.67	8.54	-76
40	09/26/14 10:17:04	10.76	283.3	2.62	8.52	-75
41	09/26/14 10:17:24	10.78	285.0	2.59	8.51	-76
42	09/26/14 10:17:44	10.79	284.2	2.53	8.49	-79
43	09/26/14 10:18:04	10.80	284.0	2.51	8.47	-82
44	09/26/14 10:18:24	10.80	288.2	2.46	8.46	-81
45	09/26/14 10:18:44	10.79	289.7	2.46	8.44	-80
46	09/26/14 10:19:04	10.78	293.5	2.41	8.42	-84
47	09/26/14 10:19:24	10.79	295.1	2.39	8.41	-86
48	09/26/14 10:19:44	10.80	294.1	2.36	8.40	-88
49	09/26/14 10:20:04	10.80	296.7	2.34	8.39	-89
50	09/26/14 10:20:24	10.80	301.2	2.31	8.37	-87

W-13D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/26/14 10:20:44	10.80	304.7	2.28	8.35	-83
52	09/26/14 10:21:04	10.81	308.2	2.25	8.33	-81
53	09/26/14 10:21:24	10.81	309.2	2.23	8.32	-81
54	09/26/14 10:21:44	10.81	312.8	2.21	8.31	-77
55	09/26/14 10:22:04	10.82	315.9	2.20	8.29	-76
56	09/26/14 10:22:24	10.82	316.3	2.17	8.28	-76
57	09/26/14 10:22:44	10.81	319.4	2.16	8.26	-78
58	09/26/14 10:23:04	10.83	319.6	2.16	8.20	-76
59	09/26/14 10:23:24	10.83	320.5	2.13	8.20	-75
60	09/26/14 10:23:44	10.85	322.0	2.12	8.19	-74
61	09/26/14 10:24:04	10.86	324.2	2.09	8.17	-75
62	09/26/14 10:24:24	10.86	325.9	2.10	8.16	-76
63	09/26/14 10:24:44	10.88	327.7	2.08	8.15	-76
64	09/26/14 10:25:04	10.89	330.7	2.08	8.13	-77
65	09/26/14 10:25:24	10.90	331.2	2.05	8.12	-71
66	09/26/14 10:25:44	10.90	333.0	2.04	8.11	-68
67	09/26/14 10:26:04	10.90	335.3	2.03	8.10	-64
68	09/26/14 10:26:24	10.91	334.9	2.04	8.09	-65

W-13D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-5d-0914
Volatile bottles preserved by: JB 09/16/14 ESA 2725
Sampled by: [illegible]

Date: 9-26-14
Time: 11:55 am
Weather: Sunny

Top of casing elevation: 654.17 ft
Depth to well bottom: 67.7 ft
Depth to static water level: 9.43 ft
Height of water column, H: 58.27 ft
Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .092 gal/ft. 5.36 gallons
Volume of water evacuated: 2.75 .5102 gallons
Depth to static water level after purging: 9.60
Did well recover? YES NO

Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:36		10.82	11.33	8.06	5.66	166	18.7	49.5
2	11:45		10.50	11.26	7.88	2.10	231	3.46	9.8
3	11:48		10.50	11.28	7.86	1.88	234	2.92	-1.9
4	11:51		10.50	11.34	7.84	1.78	237	3.12	-3.9
5	11:54		10.50	11.40	7.84	1.72	236	3.64	-5.5
6									
7									
8									

Sample color: Cloudy
Sample turbidity: no
Sample odor: YES NO
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature: [signature] 139

W-5D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/26/14 11:32:29	11.31	149.4	6.18	8.88	42
2	09/26/14 11:32:49	11.30	156.4	6.02	8.81	43
3	09/26/14 11:33:09	11.32	158.7	5.83	8.73	44
4	09/26/14 11:33:29	11.32	162.6	5.70	8.68	45
5	09/26/14 11:33:49	11.34	165.4	5.55	8.63	46
6	09/26/14 11:34:09	11.35	169.4	5.35	8.61	46
7	09/26/14 11:34:29	11.36	172.0	5.18	8.56	47
8	09/26/14 11:34:49	11.34	175.1	5.01	8.53	48
9	09/26/14 11:35:09	11.35	177.5	4.90	8.50	49
10	09/26/14 11:35:29	11.35	182.8	4.76	8.47	49
11	09/26/14 11:35:49	11.35	185.5	4.61	8.43	49
12	09/26/14 11:36:09	11.36	192.1	4.48	8.39	49
13	09/26/14 11:36:29	11.37	192.3	4.38	8.36	49
14	09/26/14 11:36:49	11.35	195.8	4.25	8.32	49
15	09/26/14 11:37:09	11.34	199.8	4.16	8.29	48
16	09/26/14 11:37:29	11.34	199.6	4.03	8.26	47
17	09/26/14 11:37:49	11.34	202.5	3.91	8.24	45
18	09/26/14 11:38:09	11.35	207.0	3.80	8.21	44
19	09/26/14 11:38:29	11.36	208.8	3.66	8.18	42
20	09/26/14 11:38:49	11.37	209.5	3.56	8.15	42
21	09/26/14 11:39:09	11.36	211.4	3.47	8.13	40
22	09/26/14 11:39:29	11.35	214.3	3.36	8.11	38
23	09/26/14 11:39:49	11.35	215.9	3.27	8.10	37
24	09/26/14 11:40:09	11.33	217.6	3.17	8.08	36
25	09/26/14 11:40:29	11.32	219.4	3.14	8.07	35
26	09/26/14 11:40:49	11.31	221.0	3.04	8.04	34
27	09/26/14 11:41:09	11.33	220.2	3.01	8.03	32
28	09/26/14 11:41:29	11.31	222.0	2.91	8.02	30
29	09/26/14 11:41:49	11.31	224.3	2.82	8.00	29
30	09/26/14 11:42:09	11.29	224.8	2.76	7.99	27
31	09/26/14 11:42:29	11.29	226.0	2.68	7.99	25

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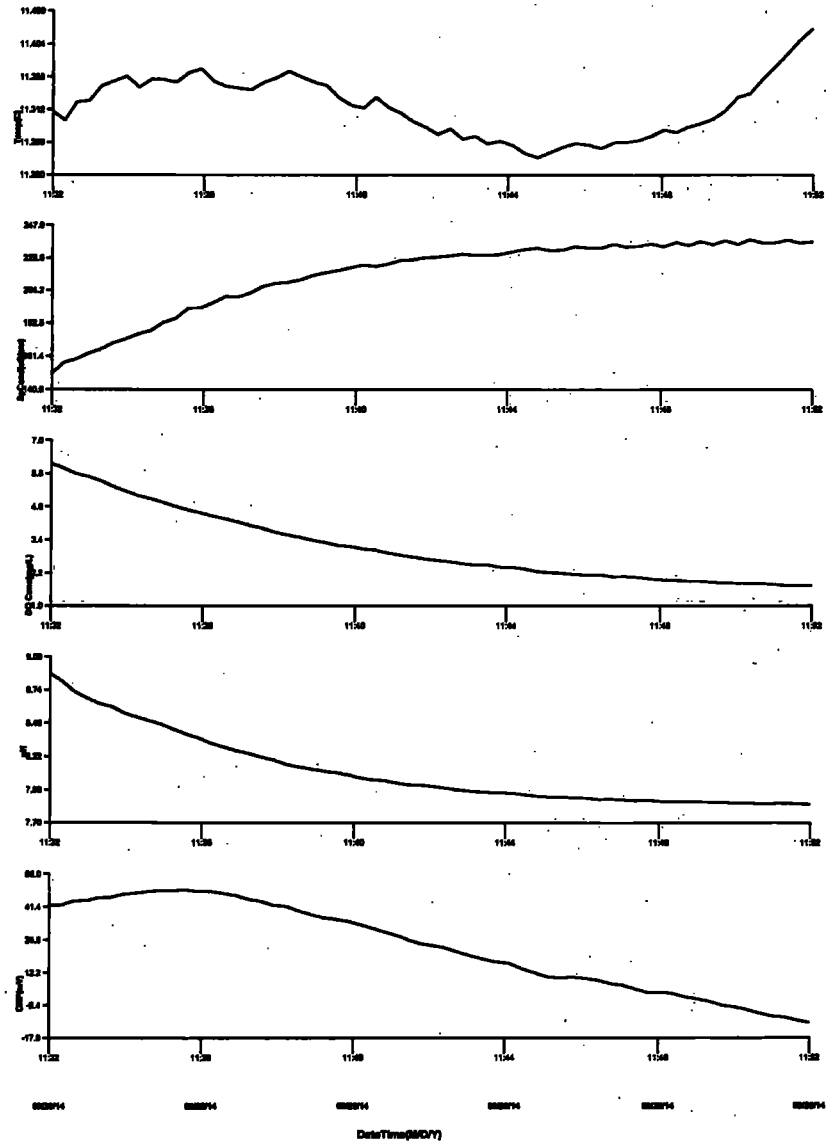
W-5D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
32	09/26/14 11:42:49	11.28	226.5	2.63	7.98	24
33	09/26/14 11:43:09	11.28	227.3	2.58	7.96	23
34	09/26/14 11:43:29	11.27	228.5	2.51	7.95	21
35	09/26/14 11:43:49	11.27	227.7	2.46	7.94	20
36	09/26/14 11:44:09	11.26	227.6	2.46	7.93	18
37	09/26/14 11:44:29	11.27	228.2	2.38	7.93	17
38	09/26/14 11:44:49	11.26	229.9	2.36	7.92	16
39	09/26/14 11:45:09	11.25	231.7	2.31	7.91	14
40	09/26/14 11:45:29	11.24	232.5	2.22	7.90	12
41	09/26/14 11:45:49	11.25	230.9	2.18	7.89	10
42	09/26/14 11:46:09	11.26	231.2	2.16	7.89	10
43	09/26/14 11:46:29	11.26	233.5	2.12	7.89	10
44	09/26/14 11:46:49	11.26	232.5	2.10	7.88	10
45	09/26/14 11:47:09	11.26	232.3	2.10	7.87	9
46	09/26/14 11:47:29	11.26	235.0	2.03	7.88	7
47	09/26/14 11:47:49	11.26	233.1	2.04	7.87	6
48	09/26/14 11:48:09	11.27	233.7	2.00	7.86	4
49	09/26/14 11:48:29	11.27	235.3	1.94	7.86	3
50	09/26/14 11:48:49	11.28	233.3	1.91	7.86	3
51	09/26/14 11:49:09	11.28	236.2	1.89	7.85	2
52	09/26/14 11:49:29	11.29	234.3	1.85	7.86	1
53	09/26/14 11:49:49	11.29	236.8	1.85	7.85	-0
54	09/26/14 11:50:09	11.30	234.6	1.82	7.85	-1
55	09/26/14 11:50:29	11.31	237.5	1.78	7.85	-3
56	09/26/14 11:50:49	11.33	234.8	1.77	7.84	-4
57	09/26/14 11:51:09	11.33	238.0	1.76	7.85	-5
58	09/26/14 11:51:29	11.35	235.9	1.76	7.84	-7
59	09/26/14 11:51:49	11.37	235.8	1.74	7.84	-8
60	09/26/14 11:52:09	11.39	237.7	1.69	7.84	-8
61	09/26/14 11:52:29	11.41	235.7	1.70	7.84	-10
62	09/26/14 11:52:49	11.43	236.7	1.69	7.83	-11

W-5D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-15d-0914
Volatile bottles preserved by: SB 09/28/14 eSCI 2725
Sampled by: SP

Date: 9-26-14
Time: 12:45 pm
Weather: sunny

Top of casing elevation: 652.69 ft Calculated top of casing: 652.72 ft

Depth to well bottom: 10.57 66.03 ft

Depth to static water level: ft Height of water column, H: 55.5 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 5.1 gallons

Volume of water evacuated: 2.75 .54 gallons

Depth to static water level after purging: 10.25

Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:26		12.40	12.36	7.22	3.15	264	98.7	-187.6
2	12:36		12.27	12.25	7.60	1.20	345	4.47	-184.9
3	12:38		12.15	12.38	7.59	1.17	346	3.62	-188.7
4	12:41		12.10	12.44	7.60	1.15	346	4.03	-189.5
5									
6									
7									
8									

Sample color: cloudy
Sample turbidity: mod
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 143

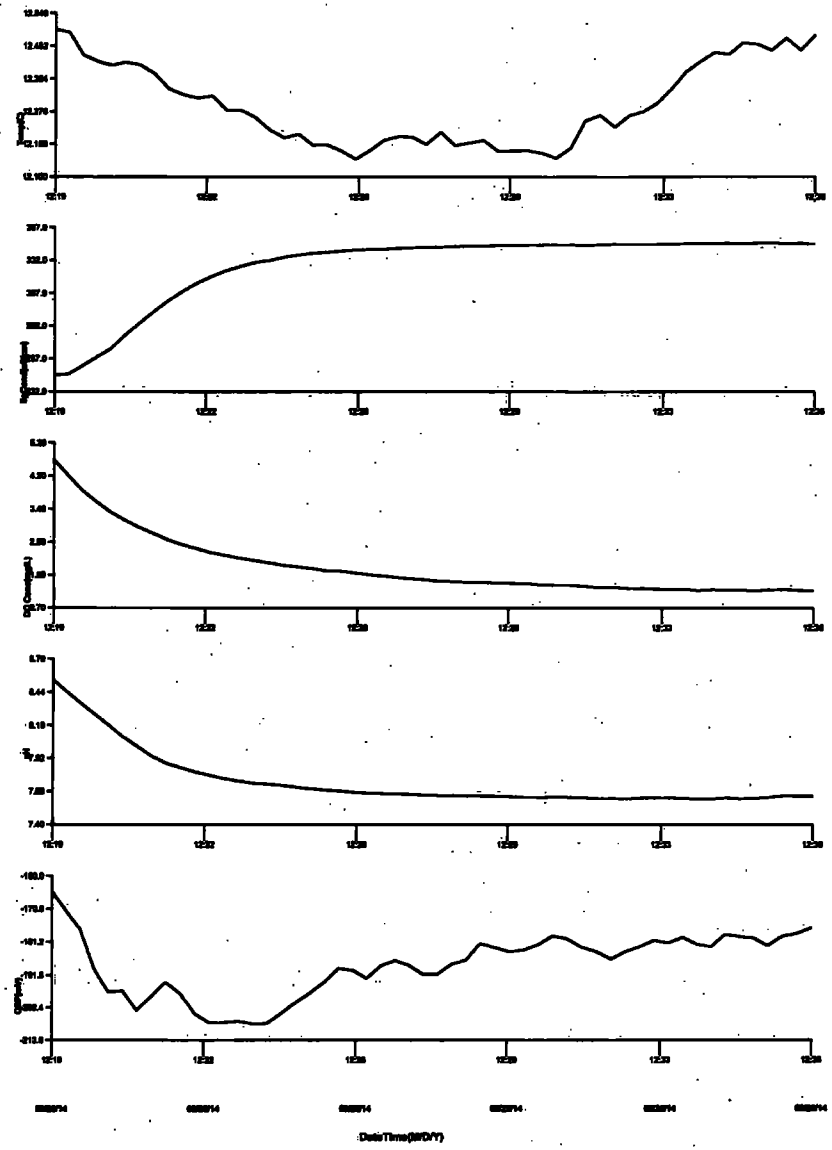
W-15D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/26/14 12:19:07	12.50	243.2	4.77	8.54	-165
2	09/26/14 12:19:27	12.49	244.0	4.33	8.45	-171
3	09/26/14 12:19:47	12.43	250.5	3.92	8.35	-177
4	09/26/14 12:20:07	12.41	257.1	3.60	8.27	-190
5	09/26/14 12:20:27	12.40	263.6	3.32	8.18	-198
6	09/26/14 12:20:47	12.41	274.2	3.09	8.08	-197
7	09/26/14 12:21:07	12.40	283.3	2.90	8.01	-204
8	09/26/14 12:21:27	12.38	292.4	2.73	7.93	-199
9	09/26/14 12:21:47	12.34	301.0	2.55	7.87	-194
10	09/26/14 12:22:07	12.32	308.6	2.41	7.84	-198
11	09/26/14 12:22:27	12.31	314.9	2.30	7.81	-205
12	09/26/14 12:22:47	12.32	320.0	2.18	7.78	-208
13	09/26/14 12:23:07	12.28	324.6	2.12	7.75	-208
14	09/26/14 12:23:27	12.28	327.9	2.04	7.73	-207
15	09/26/14 12:23:47	12.26	330.9	1.97	7.71	-208
16	09/26/14 12:24:07	12.22	332.3	1.91	7.71	-208
17	09/26/14 12:24:27	12.20	334.9	1.84	7.70	-205
18	09/26/14 12:24:47	12.21	336.6	1.80	7.68	-201
19	09/26/14 12:25:07	12.18	337.9	1.75	7.67	-198
20	09/26/14 12:25:27	12.18	338.7	1.69	7.66	-194
21	09/26/14 12:25:47	12.17	339.5	1.67	7.65	-190
22	09/26/14 12:26:07	12.14	340.6	1.63	7.64	-190
23	09/26/14 12:26:27	12.17	341.0	1.58	7.64	-193
24	09/26/14 12:26:47	12.20	341.3	1.54	7.63	-189
25	09/26/14 12:27:07	12.21	341.9	1.50	7.63	-187
26	09/26/14 12:27:27	12.20	342.3	1.47	7.63	-189
27	09/26/14 12:27:47	12.18	342.8	1.44	7.62	-192
28	09/26/14 12:28:07	12.22	343.0	1.40	7.62	-192

W-15D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
29	09/26/14 12:28:27	12.18	343.4	1.38	7.62	-189
30	09/26/14 12:28:47	12.19	343.6	1.36	7.62	-187
31	09/26/14 12:29:07	12.19	343.7	1.37	7.61	-182
32	09/26/14 12:29:27	12.17	344.0	1.36	7.61	-183
33	09/26/14 12:29:47	12.17	344.2	1.34	7.61	-184
34	09/26/14 12:30:07	12.17	344.4	1.33	7.61	-184
35	09/26/14 12:30:27	12.16	344.6	1.30	7.60	-182
36	09/26/14 12:30:47	12.15	344.8	1.29	7.61	-179
37	09/26/14 12:31:07	12.17	344.7	1.29	7.60	-180
38	09/26/14 12:31:27	12.25	344.4	1.26	7.60	-183
39	09/26/14 12:31:47	12.26	344.8	1.22	7.60	-184
40	09/26/14 12:32:07	12.23	345.3	1.23	7.60	-187
41	09/26/14 12:32:27	12.26	345.3	1.21	7.59	-184
42	09/26/14 12:32:47	12.27	345.2	1.20	7.60	-183
43	09/26/14 12:33:07	12.30	345.3	1.18	7.60	-181
44	09/26/14 12:33:27	12.34	345.2	1.17	7.60	-182
45	09/26/14 12:33:47	12.38	345.4	1.17	7.60	-180
46	09/26/14 12:34:07	12.41	345.6	1.14	7.59	-182
47	09/26/14 12:34:27	12.44	345.6	1.16	7.59	-183
48	09/26/14 12:34:47	12.43	345.9	1.15	7.60	-179
49	09/26/14 12:35:07	12.46	345.8	1.16	7.59	-179
50	09/26/14 12:35:27	12.46	345.8	1.14	7.60	-180
51	09/26/14 12:35:47	12.44	346.1	1.16	7.60	-182
52	09/26/14 12:36:07	12.48	345.4	1.16	7.61	-179
53	09/26/14 12:36:27	12.44	345.7	1.15	7.61	-179
54	09/26/14 12:36:47	12.48	345.3	1.14	7.61	-177

W-15D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-15s-0914
Volatile bottles preserved by: SB 09/18/14 ESCI 2725
Sampled by: SP

Date: 9-26-14
Time: 1:15 pm
Weather: warm

Top of casing elevation: 653.03 ft Calculated top of casing: 653.06 ft

Depth to well bottom: 1082 23.93 ft

Depth to static water level: ft Height of water column, H: 13.11 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft 1.2 gallons

Volume of water evacuated: 2.75 2.3wc gallons

Depth to static water level after purging: 12.67

Did well recover? (YES) NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:60		11.58	17.33	6.62	4.33	103	96.5	-91.0
2	1:03		11.96	17.02	5.84	2.73	65	9.99	-12.0
3	1:08		11.40	14.01	5.78	2.73	64	9.95	-12.2
4	1:11		11.40	12.98	5.75	2.74	64	9.09	-9.1
5									
6									
7									
8									

Sample color: cloudy
Sample turbidity: mod
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

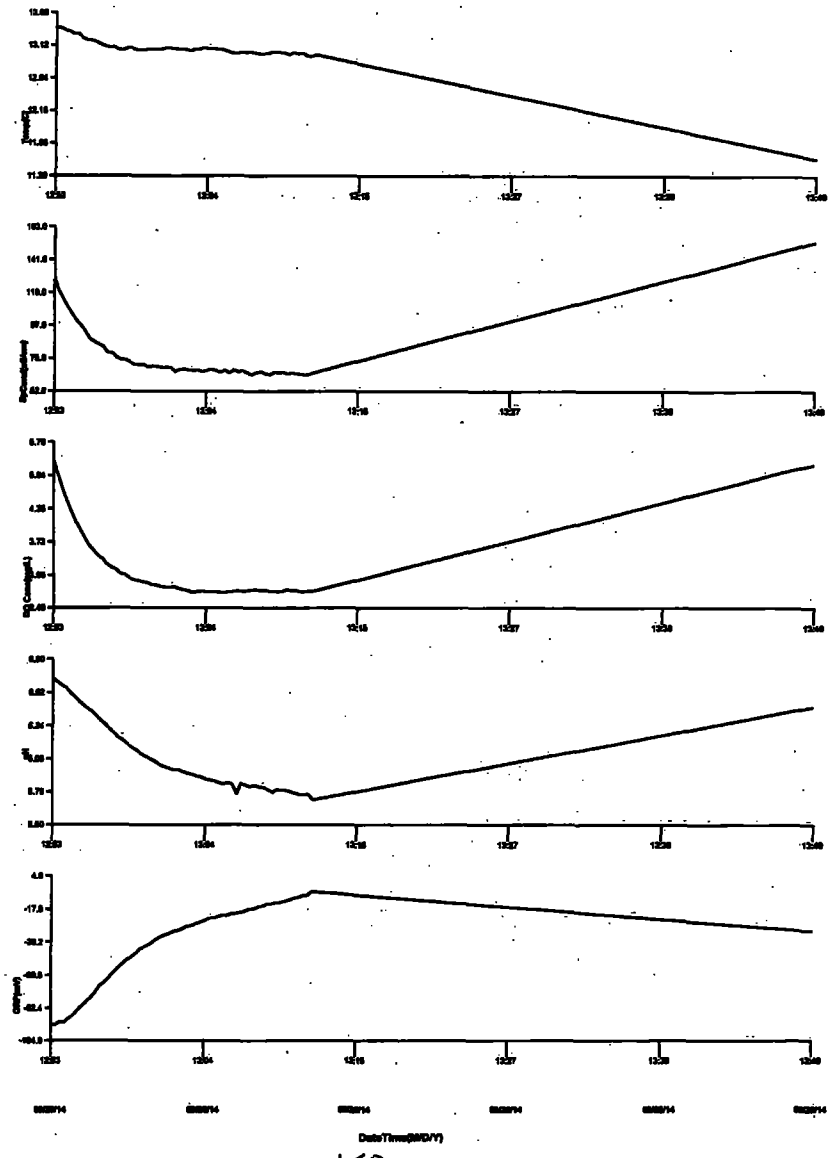
Signature: 147

W-15S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/26/14 12:53:10	13.38	129.6	5.37	6.75	-95
2	09/26/14 12:53:30	13.39	120.6	5.09	6.72	-94
3	09/26/14 12:53:50	13.35	115.0	4.80	6.69	-93
4	09/26/14 12:54:10	13.33	109.2	4.54	6.67	-93
5	09/26/14 12:54:30	13.30	104.2	4.33	6.62	-90
6	09/26/14 12:54:50	13.30	100.0	4.13	6.59	-88
7	09/26/14 12:55:10	13.23	96.2	3.96	6.55	-85
8	09/26/14 12:55:30	13.20	92.3	3.80	6.51	-82
9	09/26/14 12:55:50	13.20	87.3	3.63	6.48	-79
10	09/26/14 12:56:10	13.18	85.2	3.54	6.46	-76
11	09/26/14 12:56:30	13.14	83.7	3.43	6.42	-73
12	09/26/14 12:56:50	13.12	82.1	3.37	6.38	-68
13	09/26/14 12:57:10	13.09	78.0	3.26	6.35	-66
14	09/26/14 12:57:30	13.10	77.8	3.19	6.31	-63
15	09/26/14 12:57:50	13.06	74.6	3.16	6.27	-60
16	09/26/14 12:58:10	13.05	73.1	3.07	6.24	-57
17	09/26/14 12:58:30	13.08	73.2	3.05	6.21	-54
18	09/26/14 12:58:50	13.09	71.4	2.98	6.18	-51
19	09/26/14 12:59:10	13.06	70.0	2.94	6.15	-49
20	09/26/14 12:59:30	13.06	69.6	2.92	6.13	-47
21	09/26/14 12:59:50	13.06	69.7	2.90	6.09	-44
22	09/26/14 13:00:10	13.07	68.3	2.88	6.07	-42
23	09/26/14 13:00:30	13.07	68.9	2.84	6.05	-41
24	09/26/14 13:00:50	13.07	68.4	2.83	6.03	-38
25	09/26/14 13:01:10	13.07	68.1	2.80	6.01	-36
26	09/26/14 13:01:30	13.09	68.1	2.79	5.99	-35
27	09/26/14 13:01:50	13.08	67.8	2.79	5.97	-34
28	09/26/14 13:02:10	13.08	65.0	2.80	5.96	-32
29	09/26/14 13:02:30	13.07	66.5	2.76	5.96	-32
30	09/26/14 13:02:50	13.07	67.0	2.74	5.94	-31

W-15S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	09/26/14 13:03:10	13.05	66.1	2.72	5.93	-29
32	09/26/14 13:03:30	13.07	65.7	2.68	5.92	-29
33	09/26/14 13:03:50	13.07	66.1	2.70	5.91	-27
34	09/26/14 13:04:10	13.09	65.0	2.70	5.90	-26
35	09/26/14 13:04:30	13.08	65.9	2.70	5.88	-25
36	09/26/14 13:04:50	13.08	66.8	2.70	5.87	-23
37	09/26/14 13:05:10	13.07	65.7	2.69	5.86	-23
38	09/26/14 13:05:30	13.07	64.7	2.69	5.85	-22
39	09/26/14 13:05:50	13.05	66.0	2.68	5.84	-21
40	09/26/14 13:06:10	13.02	64.2	2.70	5.85	-22
41	09/26/14 13:06:30	13.01	66.2	2.70	5.84	-20
42	09/26/14 13:06:50	13.02	64.8	2.71	5.75	-20
43	09/26/14 13:07:10	13.02	65.8	2.70	5.84	-20
44	09/26/14 13:07:30	13.03	64.2	2.72	5.83	-18
45	09/26/14 13:07:50	13.03	63.0	2.73	5.82	-17
46	09/26/14 13:08:10	13.01	64.3	2.74	5.83	-17
47	09/26/14 13:08:30	13.01	65.3	2.72	5.81	-16
48	09/26/14 13:08:50	13.01	63.8	2.73	5.81	-15
49	09/26/14 13:09:10	13.03	63.0	2.71	5.79	-14
50	09/26/14 13:09:30	13.04	64.6	2.70	5.77	-14
51	09/26/14 13:09:50	13.02	64.2	2.69	5.79	-13
52	09/26/14 13:10:10	13.02	64.5	2.70	5.78	-13
53	09/26/14 13:10:30	13.00	63.9	2.74	5.78	-12
54	09/26/14 13:10:50	13.02	64.2	2.72	5.77	-11
55	09/26/14 13:11:10	13.01	63.7	2.72	5.76	-10
56	09/26/14 13:11:30	13.01	63.5	2.70	5.75	-9
57	09/26/14 13:11:50	12.98	62.9	2.70	5.75	-8
58	09/26/14 13:12:10	12.97	63.4	2.71	5.75	-8
59	09/26/14 13:12:30	12.99	64.4	2.71	5.70	-6
60	09/26/14 13:49:38	11.43	153.5	5.27	6.50	-32



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-16s-0914
Volatile bottles preserved by: SR 09/18/14 ESCI 2725
Sampled by: CF

Date: 9-26-14
Time: 2:15 pm
Weather: warm

Top of casing elevation: 651.44 ft Calculated top of casing: 651.46 ft

Depth to well bottom: 10.76 24.1 ft

Depth to static water level: ft Height of water column, H: 13.71 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 1.26 gallons

Volume of water evacuated: 2.75 3.24 gallons

Depth to static water level after purging: 10.45
Did well recover? YES NO

Method of evacuation: Peristaltic Purge Flow Rate: 400 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:50		11.90	11.49	4.54	5.36	66	7.22	47.8
2	2:05		11.75	11.26	4.96	4.61	56	1.92	116.1
3	2:06		11.75	11.18	4.93	4.66	53	2.05	118.8
4	2:11		11.75	11.22	4.81	4.69	52	2.03	124.0
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 151

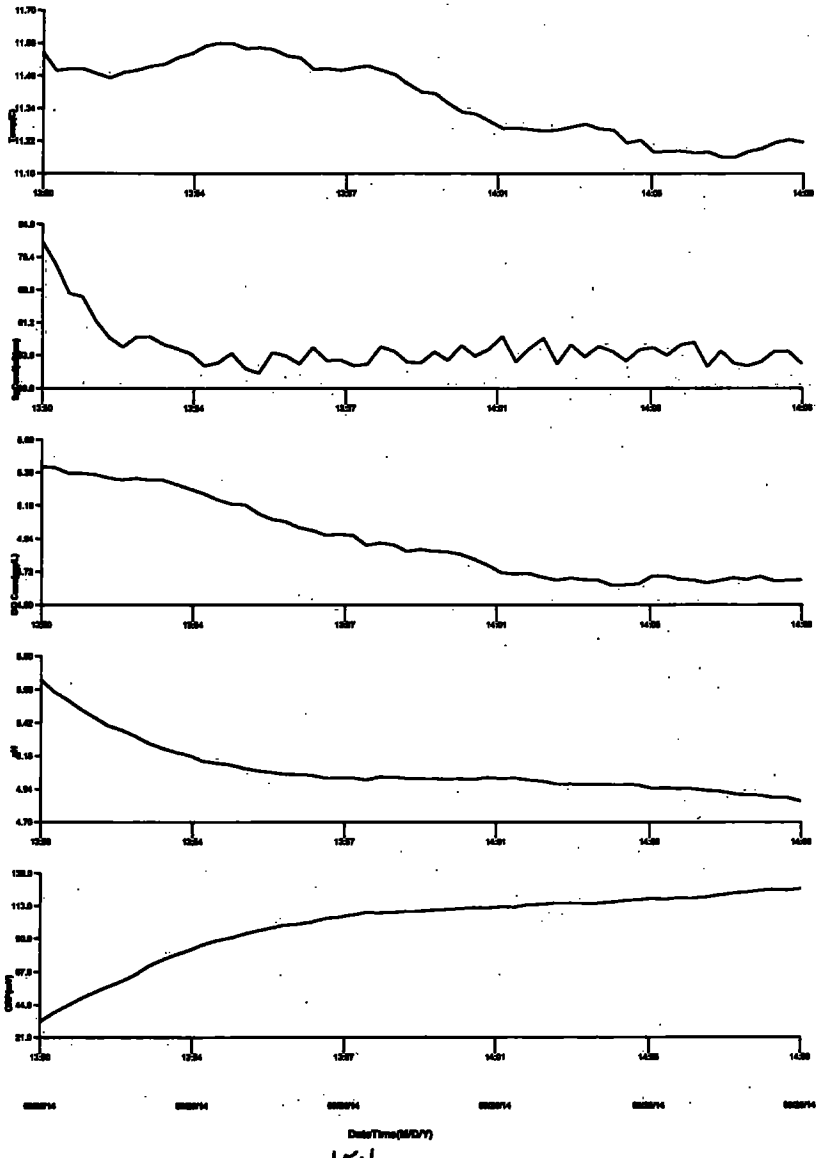
W-16S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/26/14 13:50:19	11.55	80.2	5.42	5.74	31
2	09/26/14 13:50:39	11.48	74.9	5.42	5.65	37
3	09/26/14 13:50:59	11.49	68.0	5.38	5.59	43
4	09/26/14 13:51:19	11.49	67.2	5.38	5.52	48
5	09/26/14 13:51:39	11.47	61.5	5.37	5.46	52
6	09/26/14 13:51:59	11.45	57.4	5.35	5.40	56
7	09/26/14 13:52:19	11.47	55.3	5.33	5.37	60
8	09/26/14 13:52:39	11.48	57.6	5.35	5.32	64
9	09/26/14 13:52:59	11.49	57.7	5.33	5.27	70
10	09/26/14 13:53:19	11.50	55.9	5.33	5.23	75
11	09/26/14 13:53:39	11.53	54.9	5.30	5.20	79
12	09/26/14 13:53:59	11.54	53.7	5.27	5.18	82
13	09/26/14 13:54:19	11.57	50.8	5.24	5.14	86
14	09/26/14 13:54:39	11.58	51.6	5.20	5.12	88
15	09/26/14 13:54:59	11.58	53.8	5.17	5.11	90
16	09/26/14 13:55:19	11.56	50.2	5.17	5.08	93
17	09/26/14 13:55:39	11.57	49.1	5.11	5.07	95
18	09/26/14 13:55:59	11.56	54.0	5.07	5.05	97
19	09/26/14 13:56:19	11.53	53.2	5.05	5.04	99
20	09/26/14 13:56:39	11.53	51.3	5.01	5.04	100
21	09/26/14 13:56:59	11.48	55.2	4.99	5.03	102
22	09/26/14 13:57:19	11.49	52.1	4.96	5.01	104
23	09/26/14 13:57:39	11.48	52.3	4.97	5.01	105
24	09/26/14 13:57:59	11.49	50.9	4.96	5.02	107
25	09/26/14 13:58:19	11.50	51.3	4.89	5.00	109
26	09/26/14 13:58:39	11.48	55.3	4.91	5.02	108
27	09/26/14 13:58:59	11.47	54.3	4.89	5.02	109
28	09/26/14 13:59:19	11.43	51.8	4.85	5.01	109
29	09/26/14 13:59:39	11.40	51.6	4.86	5.01	109

W-16S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
30	09/26/14 13:59:59	11.39	54.1	4.85	5.01	110
31	09/26/14 14:00:19	11.36	52.2	4.85	5.01	111
32	09/26/14 14:00:39	11.32	55.6	4.83	5.01	111
33	09/26/14 14:00:59	11.32	53.2	4.80	5.00	112
34	09/26/14 14:01:19	11.29	54.8	4.75	5.02	112
35	09/26/14 14:01:39	11.26	57.8	4.70	5.01	113
36	09/26/14 14:01:59	11.26	51.8	4.70	5.01	112
37	09/26/14 14:02:19	11.26	55.0	4.70	5.00	114
38	09/26/14 14:02:39	11.25	57.4	4.67	4.99	115
39	09/26/14 14:02:59	11.26	51.3	4.65	4.97	115
40	09/26/14 14:03:19	11.27	55.8	4.67	4.97	115
41	09/26/14 14:03:39	11.28	53.0	4.66	4.96	115
42	09/26/14 14:03:59	11.26	55.4	4.65	4.97	115
43	09/26/14 14:04:19	11.26	54.3	4.62	4.96	116
44	09/26/14 14:04:39	11.21	52.0	4.62	4.96	117
45	09/26/14 14:04:59	11.22	54.6	4.63	4.96	118
46	09/26/14 14:05:19	11.17	55.2	4.68	4.94	119
47	09/26/14 14:05:39	11.18	53.3	4.68	4.94	118
48	09/26/14 14:05:59	11.18	55.8	4.66	4.93	120
49	09/26/14 14:06:19	11.17	56.4	4.65	4.93	119
50	09/26/14 14:06:39	11.18	50.7	4.63	4.92	120
51	09/26/14 14:06:59	11.16	54.3	4.65	4.92	121
52	09/26/14 14:07:19	11.15	51.5	4.67	4.90	123
53	09/26/14 14:07:39	11.18	50.8	4.66	4.89	124
54	09/26/14 14:07:59	11.19	51.8	4.68	4.89	124
55	09/26/14 14:08:19	11.21	54.2	4.65	4.87	125
56	09/26/14 14:08:39	11.22	54.3	4.65	4.87	125
57	09/26/14 14:08:59	11.21	51.3	4.65	4.84	126

W-16S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-16d-0914
Volatile bottles preserved by: JS 09/18/14 ESCI 2725
Sampled by: AJ

Date: 9-26-14
Time: 2:50 pm
Weather: overcast

Top of casing elevation: 651.18 ft Calculated top of casing: 651.21 ft

Depth to well bottom: 9.75 55.53 ft

Depth to static water level: ft Height of water column, H: 45.78 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 4.2 gallons

Volume of water evacuated: 2.5 .60wc gallons

Depth to static water level after purging: 9.75

Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: ~~500~~ 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	2:25		10.00	10.85	7.65	4.14	177	528	9.7
2	2:40		9.85	10.68	7.71	1.24	200	13.0	-175.9
3	2:43		9.85	10.76	7.78	1.22	203	11.9	-134.5
4	2:46		9.85	10.77	7.80	1.18	207	11.6	-178.1
5									
6									
7									
8									

Sample color: Cloudy
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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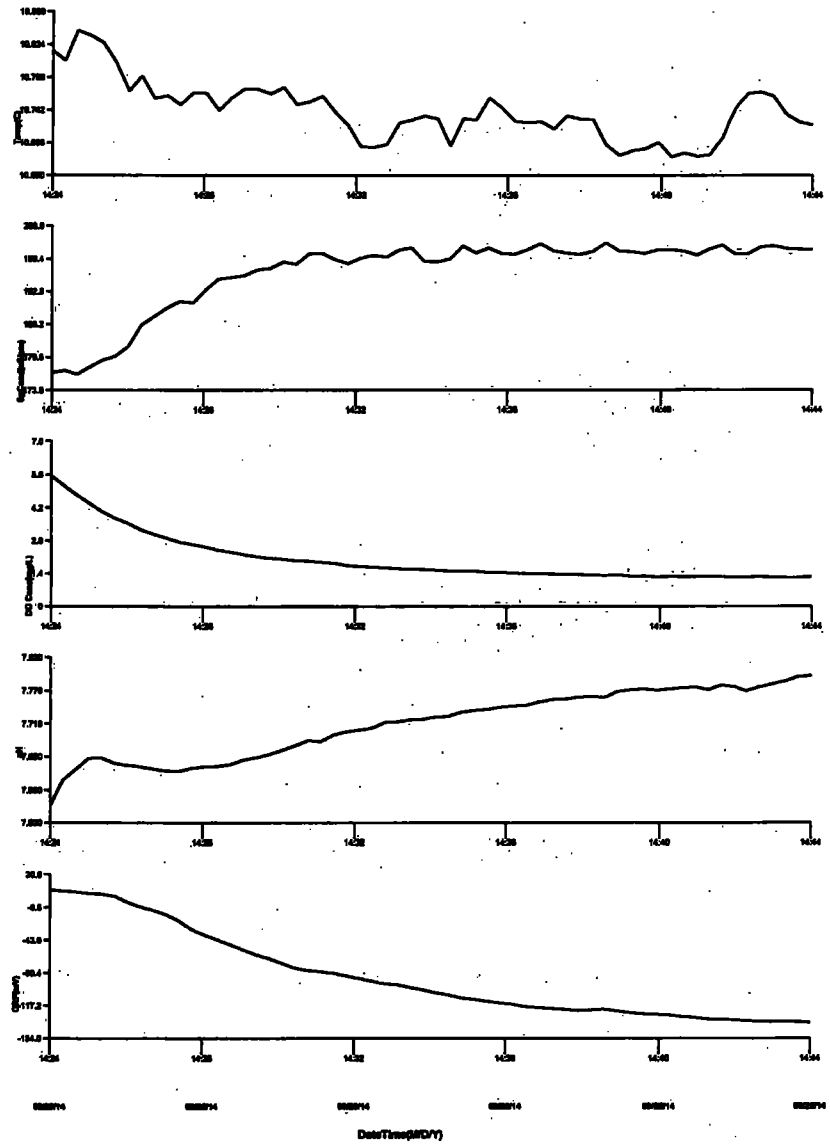
W-16D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/26/14 14:24:35	10.83	176.1	5.57	7.56	14
2	09/26/14 14:24:55	10.81	176.7	5.15	7.61	13
3	09/26/14 14:25:15	10.85	175.9	4.76	7.63	12
4	09/26/14 14:25:35	10.85	177.3	4.38	7.65	10
5	09/26/14 14:25:55	10.84	178.7	4.03	7.65	9
6	09/26/14 14:26:15	10.81	179.6	3.74	7.64	7
7	09/26/14 14:26:35	10.77	181.5	3.53	7.63	0
8	09/26/14 14:26:55	10.79	185.9	3.24	7.63	-6
9	09/26/14 14:27:15	10.76	187.6	3.05	7.63	-9
10	09/26/14 14:27:35	10.76	189.4	2.89	7.62	-15
11	09/26/14 14:27:55	10.75	190.8	2.72	7.62	-22
12	09/26/14 14:28:15	10.77	190.4	2.60	7.63	-31
13	09/26/14 14:28:35	10.77	193.1	2.50	7.63	-38
14	09/26/14 14:28:55	10.74	195.4	2.37	7.63	-43
15	09/26/14 14:29:15	10.76	195.7	2.27	7.63	-49
16	09/26/14 14:29:35	10.77	196.1	2.16	7.64	-54
17	09/26/14 14:29:55	10.77	197.2	2.08	7.65	-60
18	09/26/14 14:30:15	10.76	197.5	2.00	7.65	-64
19	09/26/14 14:30:35	10.77	198.9	1.96	7.66	-70
20	09/26/14 14:30:55	10.75	198.4	1.90	7.67	-75
21	09/26/14 14:31:15	10.75	200.6	1.87	7.68	-78
22	09/26/14 14:31:35	10.76	200.7	1.83	7.68	-80
23	09/26/14 14:31:55	10.74	199.4	1.78	7.69	-81
24	09/26/14 14:32:15	10.72	198.6	1.68	7.69	-84
25	09/26/14 14:32:35	10.69	199.7	1.64	7.70	-87
26	09/26/14 14:32:55	10.69	200.3	1.62	7.70	-90
27	09/26/14 14:33:15	10.69	199.9	1.59	7.71	-93
28	09/26/14 14:33:35	10.72	201.4	1.54	7.71	-95
29	09/26/14 14:33:55	10.73	201.8	1.53	7.72	-98
30	09/26/14 14:34:15	10.73	199.0	1.51	7.72	-101

W-16D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	09/26/14 14:34:35	10.73	198.9	1.48	7.72	-104
32	09/26/14 14:34:55	10.69	199.6	1.46	7.72	-106
33	09/26/14 14:35:15	10.73	202.1	1.44	7.73	-110
34	09/26/14 14:35:35	10.73	200.8	1.44	7.73	-112
35	09/26/14 14:35:55	10.76	201.7	1.40	7.74	-114
36	09/26/14 14:36:15	10.74	200.6	1.40	7.74	-116
37	09/26/14 14:36:35	10.73	200.5	1.36	7.74	-117
38	09/26/14 14:36:55	10.72	201.4	1.35	7.74	-120
39	09/26/14 14:37:15	10.72	202.6	1.35	7.75	-121
40	09/26/14 14:37:35	10.71	201.2	1.31	7.75	-122
41	09/26/14 14:37:55	10.73	200.8	1.31	7.76	-123
42	09/26/14 14:38:15	10.73	200.4	1.30	7.76	-124
43	09/26/14 14:38:35	10.73	201.1	1.27	7.76	-124
44	09/26/14 14:38:55	10.69	202.8	1.26	7.76	-123
45	09/26/14 14:39:15	10.68	201.2	1.29	7.77	-125
46	09/26/14 14:39:35	10.68	201.0	1.23	7.77	-127
47	09/26/14 14:39:55	10.69	200.7	1.24	7.77	-128
48	09/26/14 14:40:15	10.70	201.4	1.19	7.77	-129
49	09/26/14 14:40:35	10.67	201.4	1.22	7.77	-130
50	09/26/14 14:40:55	10.68	201.1	1.20	7.78	-131
51	09/26/14 14:41:15	10.68	200.4	1.21	7.78	-133
52	09/26/14 14:41:35	10.68	201.6	1.22	7.77	-134
53	09/26/14 14:41:55	10.70	202.4	1.21	7.78	-135
54	09/26/14 14:42:15	10.74	200.6	1.18	7.78	-135
55	09/26/14 14:42:35	10.77	200.5	1.19	7.77	-136
56	09/26/14 14:42:55	10.77	201.9	1.21	7.78	-137
57	09/26/14 14:43:15	10.76	202.3	1.18	7.78	-137
58	09/26/14 14:43:35	10.74	201.7	1.17	7.79	-137
59	09/26/14 14:43:55	10.72	201.5	1.16	7.80	-137
60	09/26/14 14:44:15	10.72	201.5	1.19	7.80	-138

W-16D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-104s-0914
Volatile bottles preserved by: JB 09/18/14 0SCT 2725
Sampled by: tf

Date: 9-29-14
Time: 8:50 am
Weather: cool

Top of casing elevation: 642.83 ft
Depth to well bottom: 35.825 ft
Depth to static water level: 23.03 ft
Height of water column, H: 12.8 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.96 gallons
Volume of water evacuated: 2.25 1.1 wc gallons
Depth to static water level after purging: 23.07
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: ~~400~~ 300 → 200 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:26		23.03	12.05	6.07	8.70	163	8.32	164.7
2	8:40		23.03	9.88	6.25	6.87	185	.69	131.6
3	8:43		23.03	9.91	6.28	6.81	173	.59	125.7
4	8:46			9.93	6.29	6.78	179	.55	122.6
5									
6									
7									
8									

Sample color: Clear
Sample turbidity:
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.: Began at 300 mL/min dropped to 200 mL/min

Signature:

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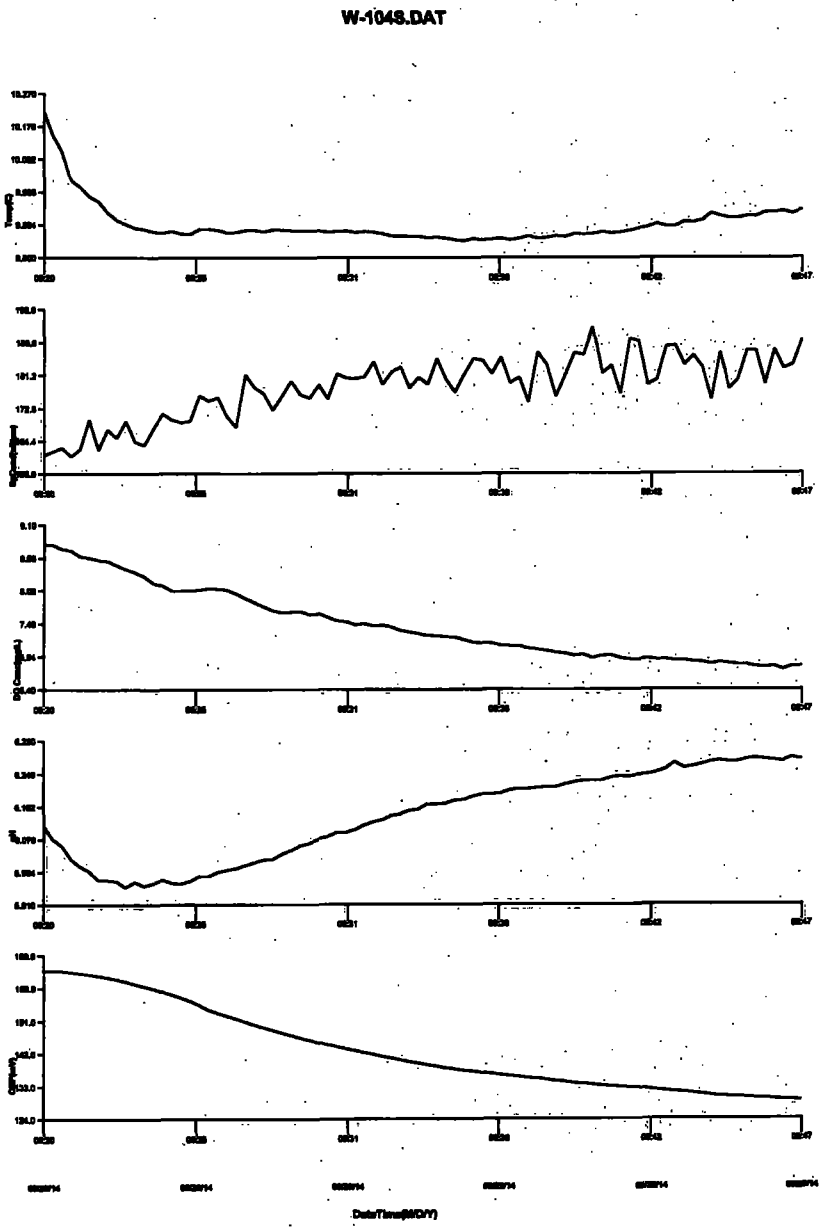
W-104S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/29/14 08:20:04	10.22	160.3	8.80	6.11	165
2	09/29/14 08:20:24	10.15	161.3	8.79	6.08	165
3	09/29/14 08:20:44	10.10	162.3	8.72	6.06	165
4	09/29/14 08:21:04	10.02	160.0	8.69	6.02	165
5	09/29/14 08:21:24	10.00	161.9	8.60	6.01	164
6	09/29/14 08:21:44	9.97	169.7	8.57	5.99	164
7	09/29/14 08:22:04	9.96	161.8	8.53	5.97	164
8	09/29/14 08:22:24	9.92	167.1	8.52	5.97	163
9	09/29/14 08:22:44	9.90	164.9	8.45	5.97	163
10	09/29/14 08:23:04	9.89	169.3	8.38	5.95	162
11	09/29/14 08:23:24	9.88	163.9	8.33	5.96	161
12	09/29/14 08:23:44	9.88	163.0	8.26	5.96	161
13	09/29/14 08:24:04	9.87	167.3	8.14	5.96	160
14	09/29/14 08:24:24	9.87	171.2	8.10	5.97	159
15	09/29/14 08:24:44	9.87	169.7	8.02	5.96	158
16	09/29/14 08:25:04	9.86	169.0	8.01	5.96	157
17	09/29/14 08:25:24	9.86	169.3	8.02	5.97	157
18	09/29/14 08:25:44	9.88	175.9	8.03	5.98	155
19	09/29/14 08:26:04	9.88	174.6	8.06	5.98	154
20	09/29/14 08:26:24	9.87	175.5	8.05	5.99	153
21	09/29/14 08:26:44	9.87	170.5	8.02	6.00	152
22	09/29/14 08:27:04	9.87	167.7	7.96	6.00	152
23	09/29/14 08:27:24	9.87	181.4	7.89	6.01	151
24	09/29/14 08:27:44	9.87	178.1	7.82	6.02	150
25	09/29/14 08:28:04	9.87	176.5	7.75	6.02	149
26	09/29/14 08:28:24	9.88	172.3	7.68	6.02	148
27	09/29/14 08:28:44	9.88	175.9	7.65	6.04	148
28	09/29/14 08:29:04	9.87	179.7	7.66	6.05	147
29	09/29/14 08:29:24	9.87	176.2	7.67	6.06	146

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
30	09/29/14 08:29:44	9.87	175.4	7.62	6.07	146
31	09/29/14 08:30:04	9.87	178.7	7.63	6.08	145
32	09/29/14 08:30:24	9.87	175.1	7.57	6.08	144
33	09/29/14 08:30:44	9.87	181.5	7.51	6.09	144
34	09/29/14 08:31:04	9.87	180.4	7.50	6.09	143
35	09/29/14 08:31:24	9.87	180.3	7.45	6.10	143
36	09/29/14 08:31:44	9.87	180.8	7.46	6.11	142
37	09/29/14 08:32:04	9.87	184.7	7.42	6.12	142
38	09/29/14 08:32:24	9.86	178.8	7.44	6.13	141
39	09/29/14 08:32:44	9.86	182.1	7.41	6.14	141
40	09/29/14 08:33:04	9.86	183.3	7.35	6.14	140
41	09/29/14 08:33:24	9.86	177.9	7.32	6.15	140
42	09/29/14 08:33:44	9.86	180.6	7.30	6.15	139
43	09/29/14 08:34:04	9.85	178.8	7.26	6.17	139
44	09/29/14 08:34:24	9.85	185.5	7.26	6.17	138
45	09/29/14 08:34:44	9.85	180.1	7.25	6.17	138
46	09/29/14 08:35:04	9.85	176.8	7.24	6.18	137
47	09/29/14 08:35:24	9.84	181.5	7.20	6.18	137
48	09/29/14 08:35:44	9.85	185.5	7.15	6.19	137
49	09/29/14 08:36:04	9.85	185.0	7.14	6.19	136
50	09/29/14 08:36:24	9.85	181.6	7.14	6.20	136
51	09/29/14 08:36:44	9.85	185.8	7.10	6.20	136
52	09/29/14 08:37:04	9.85	179.2	7.09	6.20	136
53	09/29/14 08:37:24	9.85	180.6	7.09	6.21	135
54	09/29/14 08:37:44	9.86	174.3	7.05	6.21	135
55	09/29/14 08:38:04	9.85	187.2	7.04	6.21	135
56	09/29/14 08:38:24	9.85	183.8	7.01	6.21	134
57	09/29/14 08:38:44	9.86	175.6	6.98	6.21	134
58	09/29/14 08:39:04	9.85	181.1	6.97	6.22	134

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
59	09/29/14 08:39:24	9.86	187.1	6.93	6.22	134
60	09/29/14 08:39:44	9.86	186.5	6.95	6.23	133
61	09/29/14 08:40:04	9.86	193.7	6.89	6.23	133
62	09/29/14 08:40:24	9.87	181.7	6.93	6.23	133
63	09/29/14 08:40:44	9.87	183.7	6.94	6.24	133
64	09/29/14 08:41:04	9.87	176.5	6.89	6.24	132
65	09/29/14 08:41:24	9.87	190.7	6.87	6.24	132
66	09/29/14 08:41:44	9.88	190.2	6.86	6.24	132
67	09/29/14 08:42:04	9.88	178.7	6.88	6.25	132
68	09/29/14 08:42:24	9.89	180.0	6.87	6.25	132
69	09/29/14 08:42:44	9.89	188.7	6.87	6.26	131
70	09/29/14 08:43:04	9.89	188.9	6.85	6.27	131
71	09/29/14 08:43:24	9.90	183.8	6.85	6.26	131
72	09/29/14 08:43:44	9.90	186.3	6.83	6.27	131
73	09/29/14 08:44:04	9.90	183.1	6.82	6.27	130
74	09/29/14 08:44:24	9.92	175.0	6.79	6.28	130
75	09/29/14 08:44:44	9.91	187.2	6.82	6.28	130
76	09/29/14 08:45:04	9.91	177.5	6.80	6.28	130
77	09/29/14 08:45:24	9.91	179.9	6.78	6.28	130
78	09/29/14 08:45:44	9.91	187.7	6.78	6.28	129
79	09/29/14 08:46:04	9.91	187.6	6.75	6.29	129
80	09/29/14 08:46:24	9.92	178.8	6.73	6.28	129
81	09/29/14 08:46:44	9.93	187.9	6.75	6.28	129
82	09/29/14 08:47:04	9.93	182.9	6.70	6.28	129
83	09/29/14 08:47:24	9.92	184.0	6.75	6.29	129
84	09/29/14 08:47:44	9.93	190.3	6.74	6.28	129



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-104i-0914
Volatile bottles preserved by: JB 04/18/14 0SCC 2725
Sampled by: ff

Date: 9-25-14
Time: 9:35am
Weather: cool

Top of casing elevation: 642.5 ft
Depth to well bottom: 78.45 ft
Depth to static water level: 22.73 ft
Height of water column, H: 55.72 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 8.5 gallons
Volume of water evacuated: 2.75 .32wc gallons
Depth to static water level after purging: 22.7
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:10		22.74	9.60	7.03	6.36	265	1.96	111.0
2	9:25		22.85	9.62	7.10	2.05	257	.64	1.1
3	9:28		22.83	9.64	7.10	2.00	257	.64	-3.5
4	9:31		22.83	9.65	7.11	1.95	270	.64	-8.8
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

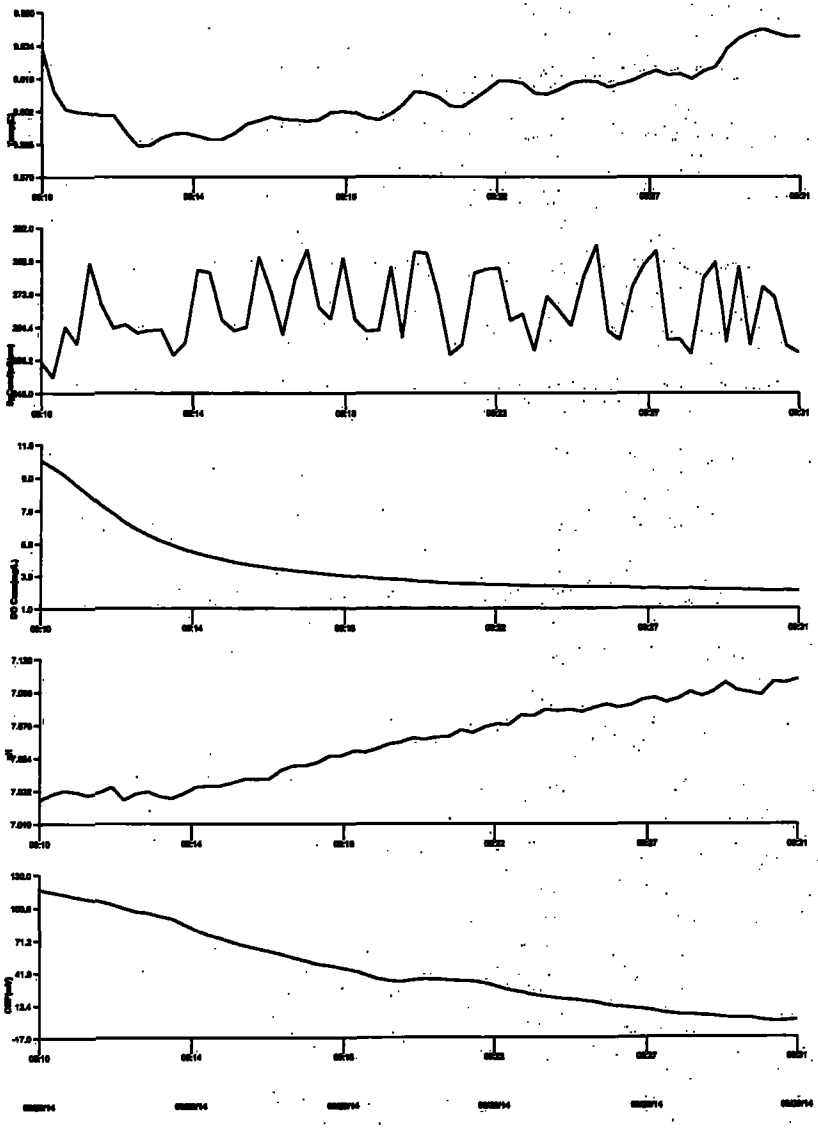
W-104I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/29/14 09:10:20	9.63	254.5	10.12	7.02	118
2	09/29/14 09:10:40	9.61	249.9	9.69	7.03	115
3	09/29/14 09:11:00	9.60	264.4	9.18	7.03	114
4	09/29/14 09:11:20	9.60	259.4	8.57	7.03	111
5	09/29/14 09:11:40	9.60	282.4	7.98	7.03	109
6	09/29/14 09:12:00	9.60	270.6	7.34	7.03	107
7	09/29/14 09:12:20	9.60	263.9	6.81	7.03	104
8	09/29/14 09:12:40	9.59	264.9	6.26	7.02	101
9	09/29/14 09:13:00	9.58	262.5	5.84	7.03	98
10	09/29/14 09:13:20	9.58	263.3	5.45	7.03	96
11	09/29/14 09:13:40	9.59	263.4	5.13	7.03	93
12	09/29/14 09:14:00	9.59	256.1	4.85	7.03	91
13	09/29/14 09:14:20	9.59	259.9	4.57	7.03	86
14	09/29/14 09:14:40	9.59	280.3	4.37	7.03	81
15	09/29/14 09:15:00	9.59	279.6	4.16	7.03	76
16	09/29/14 09:15:20	9.59	266.3	4.00	7.03	73
17	09/29/14 09:15:40	9.59	263.3	3.80	7.04	69
18	09/29/14 09:16:00	9.60	264.2	3.66	7.04	66
19	09/29/14 09:16:20	9.60	284.0	3.56	7.04	64
20	09/29/14 09:16:40	9.60	274.2	3.43	7.04	61
21	09/29/14 09:17:00	9.60	262.1	3.34	7.05	58
22	09/29/14 09:17:20	9.60	277.8	3.26	7.05	55
23	09/29/14 09:17:40	9.60	286.1	3.17	7.05	52
24	09/29/14 09:18:00	9.60	269.8	3.10	7.05	49
25	09/29/14 09:18:20	9.60	266.4	3.01	7.05	48
26	09/29/14 09:18:40	9.60	283.8	2.94	7.06	46
27	09/29/14 09:19:00	9.60	266.2	2.89	7.06	43
28	09/29/14 09:19:20	9.60	263.0	2.81	7.06	39
29	09/29/14 09:19:40	9.60	263.3	2.76	7.06	36
30	09/29/14 09:20:00	9.60	281.2	2.70	7.06	34
31	09/29/14 09:20:20	9.60	261.1	2.66	7.06	33
32	09/29/14 09:20:40	9.61	285.5	2.60	7.07	35

W-104I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	09/29/14 09:21:00	9.61	285.0	2.54	7.07	35
34	09/29/14 09:21:20	9.61	272.9	2.48	7.07	35
35	09/29/14 09:21:40	9.60	256.3	2.44	7.07	34
36	09/29/14 09:22:00	9.60	259.2	2.42	7.07	34
37	09/29/14 09:22:20	9.61	279.4	2.41	7.07	33
38	09/29/14 09:22:40	9.61	280.5	2.37	7.07	32
39	09/29/14 09:23:00	9.62	280.9	2.36	7.08	29
40	09/29/14 09:23:20	9.62	266.1	2.33	7.08	25
41	09/29/14 09:23:40	9.62	267.8	2.30	7.08	23
42	09/29/14 09:24:00	9.61	257.5	2.26	7.08	21
43	09/29/14 09:24:20	9.61	272.8	2.29	7.09	19
44	09/29/14 09:24:40	9.61	269.0	2.29	7.09	18
45	09/29/14 09:25:00	9.62	264.5	2.23	7.09	17
46	09/29/14 09:25:20	9.62	278.4	2.23	7.09	16
47	09/29/14 09:25:40	9.62	287.5	2.22	7.09	14
48	09/29/14 09:26:00	9.61	263.2	2.22	7.09	12
49	09/29/14 09:26:20	9.62	260.6	2.19	7.09	10
50	09/29/14 09:26:40	9.62	275.4	2.16	7.09	9
51	09/29/14 09:27:00	9.62	281.9	2.13	7.09	8
52	09/29/14 09:27:20	9.62	285.7	2.13	7.09	6
53	09/29/14 09:27:40	9.62	260.6	2.09	7.09	4
54	09/29/14 09:28:00	9.62	260.7	2.11	7.09	3
55	09/29/14 09:28:20	9.62	256.5	2.13	7.10	3
56	09/29/14 09:28:40	9.62	277.9	2.08	7.10	2
57	09/29/14 09:29:00	9.62	282.6	2.06	7.10	1
58	09/29/14 09:29:20	9.63	259.8	2.05	7.10	-0
59	09/29/14 09:29:40	9.64	281.3	2.04	7.10	-0
60	09/29/14 09:30:00	9.64	259.0	2.01	7.10	-0
61	09/29/14 09:30:20	9.64	275.5	1.99	7.10	-2
62	09/29/14 09:30:40	9.64	272.5	1.97	7.11	-4
63	09/29/14 09:31:00	9.64	258.8	1.99	7.10	-4
64	09/29/14 09:31:20	9.64	256.9	1.96	7.11	-3

W-104I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-105s-0914
Volatile bottles preserved by: JB 09/18/14 0SCT 2725
Sampled by: SF

Date: 9-29-14
Time: 10:20 am
Weather: cool

Top of casing elevation: 642.88 ft
Depth to well bottom: 36.87 ft
Depth to static water level: 25.22 ft
Height of water column, H: 11.65 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.78 gallons
Volume of water evacuated: 2.75 1.5 sets gallons
Depth to static water level after purging: 25.22
Did well recover? (YES) NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:54		25.22	10.23	5.98	6.17	107	3.82	100.2
2	10:10		25.22	10.16	5.74	4.45	135	1.49	102.8
3	10:13		25.22	10.21	5.77	4.43	134	1.38	102.8
4	10:16		25.22	10.21	5.77	4.34	125	1.40	108.0
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

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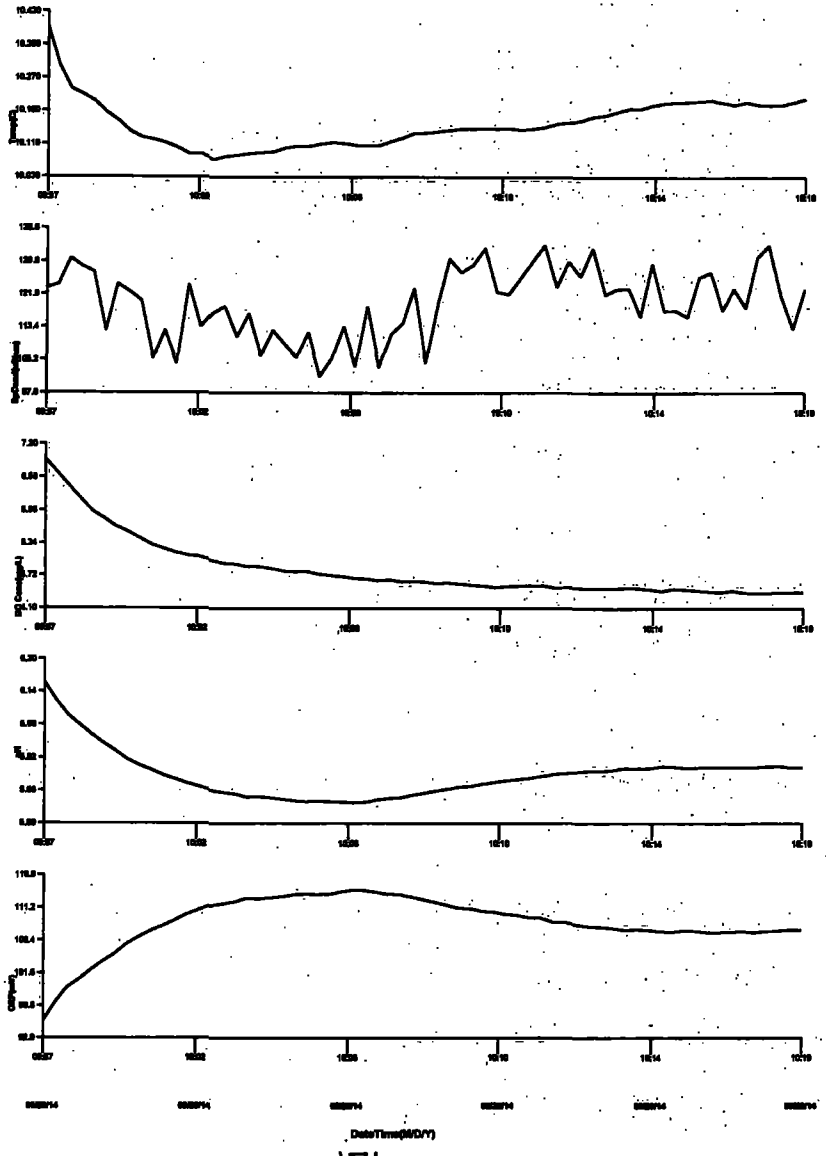
W-105S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/29/14 09:57:49	10.40	123.1	6.93	6.19	94
2	09/29/14 09:58:09	10.30	124.1	6.68	6.10	97
3	09/29/14 09:58:29	10.24	130.7	6.42	6.03	99
4	09/29/14 09:58:49	10.23	128.6	6.18	5.98	101
5	09/29/14 09:59:09	10.21	127.2	5.94	5.93	102
6	09/29/14 09:59:29	10.18	112.2	5.80	5.89	103
7	09/29/14 09:59:49	10.16	124.1	5.65	5.85	104
8	09/29/14 10:00:09	10.14	122.2	5.54	5.81	106
9	09/29/14 10:00:29	10.12	119.9	5.42	5.78	107
10	09/29/14 10:00:49	10.12	105.2	5.29	5.76	108
11	09/29/14 10:01:09	10.11	112.4	5.22	5.73	108
12	09/29/14 10:01:29	10.10	103.9	5.14	5.71	109
13	09/29/14 10:01:49	10.08	124.0	5.08	5.69	110
14	09/29/14 10:02:09	10.08	113.2	5.06	5.67	111
15	09/29/14 10:02:29	10.07	116.8	4.99	5.65	112
16	09/29/14 10:02:49	10.08	118.5	4.93	5.64	112
17	09/29/14 10:03:09	10.08	110.8	4.92	5.64	112
18	09/29/14 10:03:29	10.08	116.6	4.87	5.62	113
19	09/29/14 10:03:49	10.09	106.0	4.86	5.62	113
20	09/29/14 10:04:09	10.09	112.4	4.83	5.62	113
21	09/29/14 10:04:29	10.10	108.8	4.79	5.61	113
22	09/29/14 10:04:49	10.10	105.5	4.76	5.60	113
23	09/29/14 10:05:09	10.10	111.9	4.77	5.60	113
24	09/29/14 10:05:29	10.11	100.7	4.72	5.60	113
25	09/29/14 10:05:49	10.11	105.2	4.70	5.60	113
26	09/29/14 10:06:09	10.11	113.3	4.68	5.60	114
27	09/29/14 10:06:29	10.10	103.2	4.64	5.59	114
28	09/29/14 10:06:49	10.10	118.4	4.63	5.59	114
29	09/29/14 10:07:09	10.10	103.0	4.60	5.61	114
30	09/29/14 10:07:29	10.11	111.3	4.61	5.61	113
31	09/29/14 10:07:49	10.12	114.3	4.58	5.62	113
32	09/29/14 10:08:09	10.13	123.0	4.57	5.63	113
33	09/29/14 10:08:29	10.14	104.1	4.57	5.64	113

W-105S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
34	09/29/14 10:08:49	10.14	118.9	4.54	5.65	112
35	09/29/14 10:09:09	10.14	130.6	4.55	5.66	112
36	09/29/14 10:09:29	10.14	127.1	4.54	5.67	111
37	09/29/14 10:09:49	10.14	129.1	4.51	5.67	111
38	09/29/14 10:10:09	10.15	133.4	4.50	5.69	111
39	09/29/14 10:10:29	10.14	122.2	4.46	5.69	111
40	09/29/14 10:10:49	10.15	121.6	4.48	5.70	110
41	09/29/14 10:11:09	10.14	125.7	4.49	5.71	110
42	09/29/14 10:11:29	10.14	130.0	4.50	5.71	110
43	09/29/14 10:11:49	10.15	134.1	4.50	5.72	110
44	09/29/14 10:12:09	10.16	123.4	4.46	5.73	109
45	09/29/14 10:12:29	10.16	129.9	4.47	5.74	109
46	09/29/14 10:12:49	10.17	126.2	4.46	5.75	109
47	09/29/14 10:13:09	10.17	133.3	4.45	5.75	108
48	09/29/14 10:13:29	10.18	121.5	4.45	5.75	108
49	09/29/14 10:13:49	10.19	123.0	4.45	5.76	108
50	09/29/14 10:14:09	10.19	123.1	4.46	5.76	108
51	09/29/14 10:14:29	10.19	116.0	4.45	5.76	108
52	09/29/14 10:14:49	10.20	129.4	4.42	5.76	108
53	09/29/14 10:15:09	10.21	117.4	4.40	5.77	108
54	09/29/14 10:15:29	10.21	117.5	4.44	5.77	108
55	09/29/14 10:15:49	10.21	115.8	4.42	5.77	108
56	09/29/14 10:16:09	10.21	125.9	4.41	5.77	108
57	09/29/14 10:16:29	10.22	127.2	4.39	5.77	108
58	09/29/14 10:16:49	10.21	117.6	4.37	5.77	108
59	09/29/14 10:17:09	10.20	123.0	4.41	5.77	108
60	09/29/14 10:17:29	10.21	118.1	4.37	5.77	108
61	09/29/14 10:17:49	10.20	131.0	4.36	5.77	108
62	09/29/14 10:18:09	10.20	134.1	4.37	5.77	108
63	09/29/14 10:18:29	10.20	121.1	4.37	5.77	108
64	09/29/14 10:18:49	10.21	112.8	4.37	5.77	108
65	09/29/14 10:19:09	10.22	122.8	4.37	5.77	108

W-1058.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-105i-0914
Volatile bottles preserved by: GB 09/08/14 OSCI 2725
Sampled by: GI

Date: 9-29-14
Time: 11 am
Weather: cool

Top of casing elevation: 642.57 ft
Depth to well bottom: 79.45 ft
Depth to static water level: 24.56 ft
Height of water column, H: 54.89 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 8.4 gallons
Volume of water evacuated: 3 .36oc gallons
Depth to static water level after purging: ~~24.56~~
Did well recover? YES NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:35		24.56	10.27	7.22	6.11	243	.52	56.0
2	10:56		24.60	10.25	7.17	1.73	251	.20	-60
3	10:53		24.60	10.28	7.14	1.73	250	.11	-66.1
4	10:56		24.60	10.30	7.15	1.72	252	.16	-67.4
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

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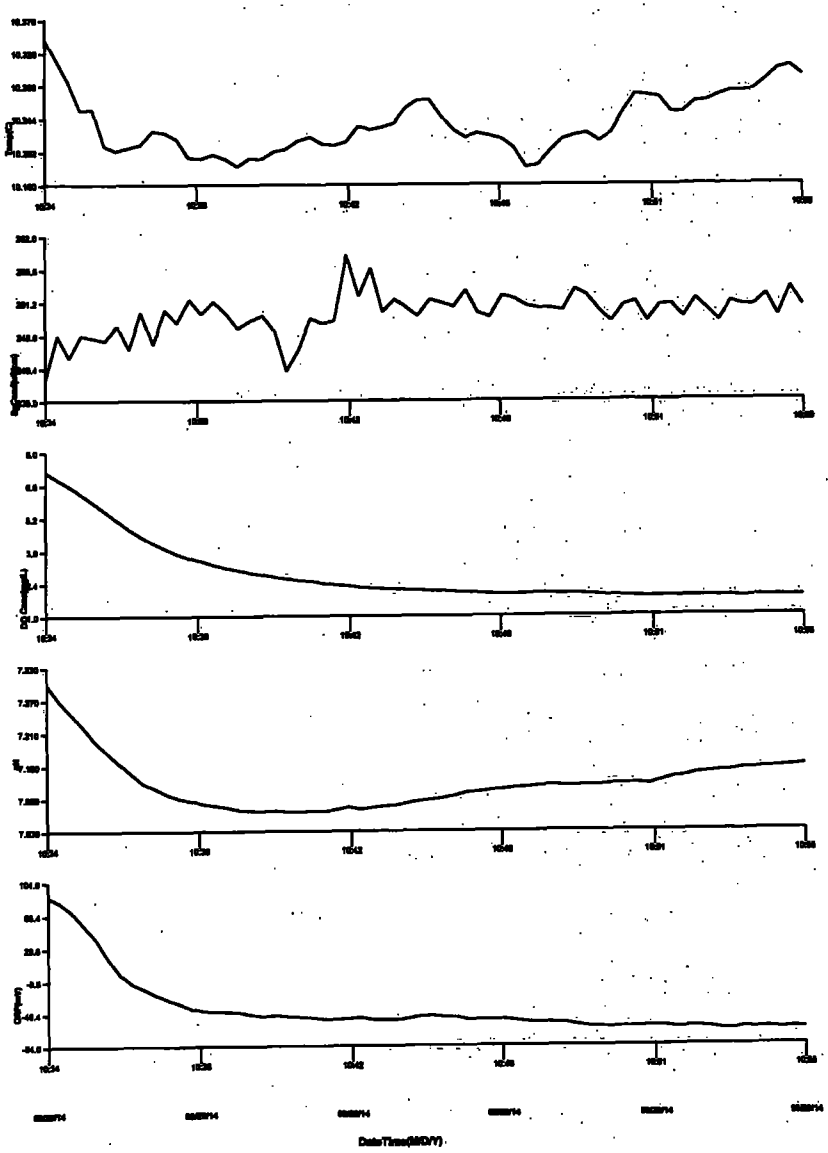
W-105I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/29/14 10:34:21	10.35	238.0	7.19	7.30	88
2	09/29/14 10:34:41	10.32	245.6	6.87	7.27	81
3	09/29/14 10:35:01	10.29	241.9	6.57	7.25	70
4	09/29/14 10:35:21	10.25	245.6	6.23	7.22	56
5	09/29/14 10:35:41	10.26	245.2	5.85	7.20	40
6	09/29/14 10:36:01	10.21	244.8	5.49	7.18	18
7	09/29/14 10:36:21	10.20	247.3	5.11	7.15	-1
8	09/29/14 10:36:41	10.21	243.4	4.70	7.14	-13
9	09/29/14 10:37:01	10.21	249.5	4.39	7.12	-19
10	09/29/14 10:37:21	10.23	244.2	4.11	7.11	-26
11	09/29/14 10:37:41	10.22	250.0	3.87	7.10	-31
12	09/29/14 10:38:01	10.22	247.8	3.64	7.09	-36
13	09/29/14 10:38:21	10.19	251.7	3.46	7.08	-42
14	09/29/14 10:38:41	10.19	249.3	3.31	7.08	-44
15	09/29/14 10:39:01	10.20	251.3	3.15	7.07	-45
16	09/29/14 10:39:21	10.19	249.4	3.02	7.07	-46
17	09/29/14 10:39:41	10.18	246.9	2.92	7.07	-47
18	09/29/14 10:40:01	10.19	248.1	2.80	7.06	-49
19	09/29/14 10:40:21	10.19	249.0	2.72	7.06	-51
20	09/29/14 10:40:41	10.20	246.4	2.61	7.06	-50
21	09/29/14 10:41:01	10.20	239.7	2.54	7.06	-51
22	09/29/14 10:41:21	10.21	243.2	2.47	7.06	-52
23	09/29/14 10:41:41	10.22	248.5	2.43	7.06	-53
24	09/29/14 10:42:01	10.21	247.6	2.34	7.06	-54
25	09/29/14 10:42:21	10.21	248.0	2.27	7.07	-55
26	09/29/14 10:42:41	10.21	259.1	2.24	7.07	-54
27	09/29/14 10:43:01	10.23	252.1	2.15	7.07	-53
28	09/29/14 10:43:21	10.23	256.8	2.13	7.07	-55
29	09/29/14 10:43:41	10.23	249.6	2.10	7.07	-56
30	09/29/14 10:44:01	10.24	251.6	2.07	7.07	-55
31	09/29/14 10:44:21	10.26	250.3	2.03	7.08	-54
32	09/29/14 10:44:41	10.27	248.8	2.02	7.08	-51

W-105I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	09/29/14 10:45:01	10.27	251.6	2.00	7.08	-51
34	09/29/14 10:45:21	10.25	251.1	2.00	7.09	-52
35	09/29/14 10:45:41	10.23	250.4	1.96	7.09	-53
36	09/29/14 10:46:01	10.22	253.2	1.93	7.10	-55
37	09/29/14 10:46:21	10.22	249.3	1.89	7.10	-56
38	09/29/14 10:46:41	10.22	248.6	1.87	7.10	-55
39	09/29/14 10:47:01	10.22	252.3	1.86	7.10	-55
40	09/29/14 10:47:21	10.21	251.7	1.86	7.11	-57
41	09/29/14 10:47:41	10.18	250.6	1.88	7.11	-58
42	09/29/14 10:48:01	10.18	250.1	1.90	7.11	-58
43	09/29/14 10:48:21	10.20	250.1	1.88	7.11	-59
44	09/29/14 10:48:41	10.22	249.7	1.86	7.11	-60
45	09/29/14 10:49:01	10.22	253.3	1.88	7.11	-62
46	09/29/14 10:49:21	10.22	252.2	1.84	7.11	-64
47	09/29/14 10:49:41	10.21	249.7	1.80	7.11	-64
48	09/29/14 10:50:01	10.22	247.8	1.78	7.11	-65
49	09/29/14 10:50:21	10.25	250.6	1.76	7.11	-64
50	09/29/14 10:50:41	10.27	251.2	1.74	7.11	-64
51	09/29/14 10:51:01	10.27	247.9	1.72	7.11	-64
52	09/29/14 10:51:21	10.27	250.6	1.74	7.12	-63
53	09/29/14 10:51:41	10.25	250.7	1.73	7.13	-65
54	09/29/14 10:52:01	10.25	248.5	1.72	7.13	-65
55	09/29/14 10:52:21	10.26	251.6	1.73	7.13	-65
56	09/29/14 10:52:41	10.27	249.8	1.73	7.13	-66
57	09/29/14 10:53:01	10.27	247.8	1.72	7.14	-68
58	09/29/14 10:53:21	10.28	251.1	1.74	7.14	-68
59	09/29/14 10:53:41	10.28	250.6	1.70	7.14	-66
60	09/29/14 10:54:01	10.28	250.5	1.74	7.14	-67
61	09/29/14 10:54:21	10.29	252.3	1.72	7.14	-66
62	09/29/14 10:54:41	10.31	248.7	1.72	7.14	-67
63	09/29/14 10:55:01	10.31	253.5	1.71	7.14	-67
64	09/29/14 10:55:21	10.30	250.4	1.73	7.15	-67

W-105I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-116s-0914
Volatile bottles preserved by: JB 09/15/14 osc# 2725
Sampled by: AP

Date: 9-29-14
Time: 12:50 pm
Weather: warm

Top of casing elevation: 635.6 ft
Depth to well bottom: 33.85 ft
Depth to static water level: 24.88 ft
Height of water column, H: 8.97 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.37 gallons
Volume of water evacuated: 2.5 1.8wc gallons

Depth to static water level after purging: 24.88
Did well recover? YES NO

Method of evacuation: Peristaltic
Purge Flow Rate: ~~400~~ 250 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:26		24.90	14.67	6.47	8.88	694	6.72	67.6
2	12:40		24.90	14.75	6.50	7.63	707	1.99	67.0
3	12:43		24.90	14.64	6.46	7.56	709	1.87	68.6
4	12:46		24.90	14.65	6.46	7.64	710	1.64	68.5
5									
6									
7									
8									

Sample color: slightly Cloudy
Sample turbidity: moderate
Sample odor: YES NO
Other observations: n. 11
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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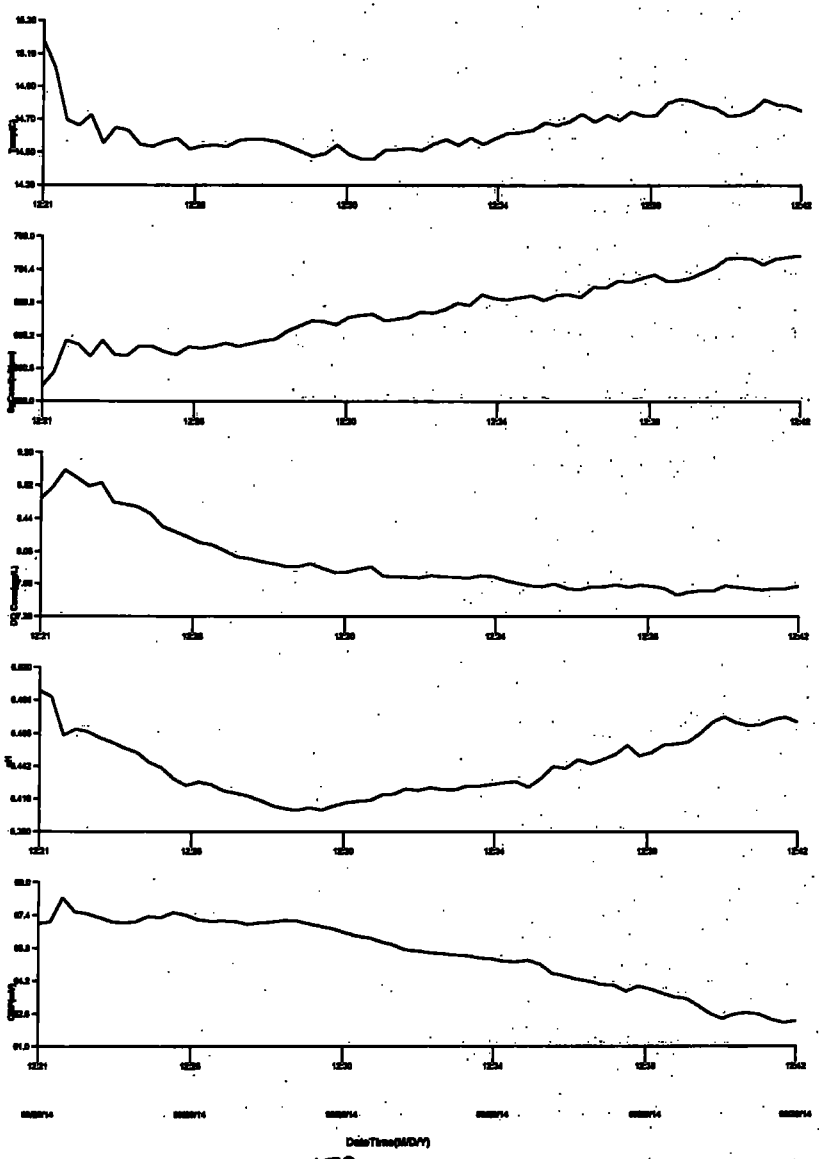
W-116S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/29/14 12:21:53	15.19	687.9	8.67	6.50	67
2	09/29/14 12:22:13	15.02	689.9	8.81	6.50	67
3	09/29/14 12:22:33	14.69	694.4	9.01	6.47	68
4	09/29/14 12:22:53	14.66	693.8	8.91	6.47	68
5	09/29/14 12:23:13	14.72	692.1	8.81	6.47	68
6	09/29/14 12:23:33	14.55	694.4	8.86	6.46	67
7	09/29/14 12:23:53	14.64	692.4	8.63	6.46	67
8	09/29/14 12:24:13	14.63	692.3	8.60	6.46	67
9	09/29/14 12:24:33	14.54	693.6	8.57	6.45	67
10	09/29/14 12:24:53	14.53	693.6	8.49	6.44	67
11	09/29/14 12:25:13	14.56	692.9	8.34	6.44	67
12	09/29/14 12:25:33	14.58	692.4	8.28	6.43	68
13	09/29/14 12:25:53	14.51	693.5	8.22	6.43	67
14	09/29/14 12:26:13	14.53	693.3	8.16	6.43	67
15	09/29/14 12:26:33	14.54	693.6	8.13	6.43	67
16	09/29/14 12:26:53	14.53	694.1	8.06	6.42	67
17	09/29/14 12:27:13	14.57	693.6	7.99	6.42	67
18	09/29/14 12:27:33	14.58	694.0	7.96	6.42	67
19	09/29/14 12:27:53	14.57	694.4	7.93	6.41	67
20	09/29/14 12:28:13	14.56	694.6	7.90	6.41	67
21	09/29/14 12:28:33	14.53	695.8	7.87	6.41	67
22	09/29/14 12:28:53	14.50	696.5	7.87	6.41	67
23	09/29/14 12:29:13	14.47	697.2	7.90	6.41	67
24	09/29/14 12:29:33	14.49	697.2	7.85	6.41	67
25	09/29/14 12:29:53	14.54	696.7	7.80	6.41	67
26	09/29/14 12:30:13	14.48	697.7	7.80	6.41	67
27	09/29/14 12:30:33	14.45	698.0	7.84	6.41	66
28	09/29/14 12:30:53	14.45	698.2	7.86	6.41	66
29	09/29/14 12:31:13	14.51	697.3	7.75	6.42	66
30	09/29/14 12:31:33	14.51	697.5	7.74	6.42	66
31	09/29/14 12:31:53	14.52	697.7	7.74	6.42	66
32	09/29/14 12:32:13	14.50	698.5	7.73	6.42	66

W-116S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	09/29/14 12:32:33	14.55	698.3	7.76	6.42	66
34	09/29/14 12:32:53	14.57	698.9	7.74	6.42	66
35	09/29/14 12:33:13	14.54	699.7	7.74	6.42	65
36	09/29/14 12:33:33	14.58	699.4	7.73	6.43	65
37	09/29/14 12:33:53	14.54	700.9	7.76	6.43	65
38	09/29/14 12:34:13	14.58	700.4	7.75	6.43	65
39	09/29/14 12:34:33	14.61	700.2	7.70	6.43	65
40	09/29/14 12:34:53	14.62	700.5	7.67	6.43	65
41	09/29/14 12:35:13	14.63	700.8	7.64	6.42	65
42	09/29/14 12:35:33	14.68	700.2	7.63	6.43	65
43	09/29/14 12:35:53	14.66	700.8	7.66	6.44	65
44	09/29/14 12:36:13	14.68	701.0	7.61	6.44	64
45	09/29/14 12:36:33	14.73	700.6	7.59	6.45	64
46	09/29/14 12:36:53	14.68	702.0	7.63	6.44	64
47	09/29/14 12:37:13	14.72	701.9	7.63	6.45	64
48	09/29/14 12:37:33	14.69	702.9	7.65	6.45	64
49	09/29/14 12:37:53	14.74	702.8	7.62	6.46	64
50	09/29/14 12:38:13	14.72	703.3	7.64	6.45	64
51	09/29/14 12:38:33	14.72	703.8	7.63	6.45	64
52	09/29/14 12:38:53	14.80	702.9	7.60	6.46	64
53	09/29/14 12:39:13	14.82	702.9	7.53	6.46	63
54	09/29/14 12:39:33	14.81	703.3	7.56	6.46	63
55	09/29/14 12:39:53	14.78	704.1	7.58	6.47	63
56	09/29/14 12:40:13	14.77	704.8	7.57	6.48	63
57	09/29/14 12:40:33	14.72	706.0	7.64	6.48	62
58	09/29/14 12:40:53	14.72	706.2	7.62	6.48	63
59	09/29/14 12:41:13	14.75	706.0	7.60	6.47	63
60	09/29/14 12:41:33	14.82	705.2	7.58	6.48	63
61	09/29/14 12:41:53	14.79	706.0	7.60	6.48	62
62	09/29/14 12:42:13	14.78	706.2	7.60	6.48	62
63	09/29/14 12:42:33	14.75	706.5	7.63	6.48	62

W-116S.DAT



Date/Time(M/D/Y)

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-116i-0914
Volatile bottles preserved by: JB 04.18.14 0521 2225
Sampled by: YP

Date: 8-29-14
Time: 1:30 pm
Weather: warm

Top of casing elevation: 635.3 ft
Depth to well bottom: 66.5 ft
Depth to static water level: 24.76 ft
Height of water column, H: 41.74 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 6.4 gallons
Volume of water evacuated: 3 gallons
Depth to static water level after purging: 24.80
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:25		24.86	12.94	8.00	7.41	3.69	3.33	-7.7
2	1:20		24.90	12.68	7.34	1.64	944	2.42	-141.3
3	1:23		24.90	12.65	7.33	1.55	944	2.26	-108.9
4	1:26		24.90	12.54	7.31	1.51	944	2.07	-102.5
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

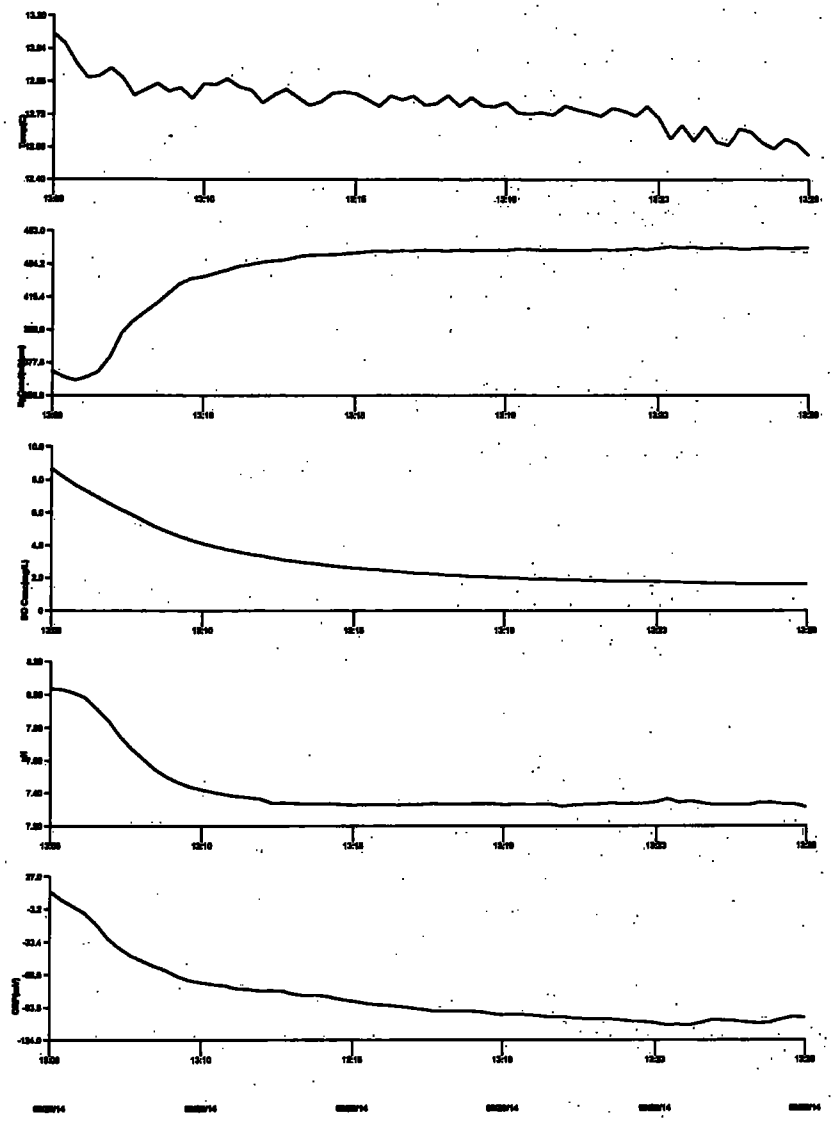
Signature:

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/29/14 13:06:39	13.12	372.2	8.75	8.04	14
2	09/29/14 13:06:59	13.07	368.7	8.22	8.03	6
3	09/29/14 13:07:19	12.97	366.9	7.74	8.01	-0
4	09/29/14 13:07:39	12.90	368.8	7.36	7.98	-6
5	09/29/14 13:07:59	12.91	372.0	6.95	7.92	-17
6	09/29/14 13:08:19	12.94	380.6	6.55	7.84	-30
7	09/29/14 13:08:39	12.90	394.3	6.18	7.75	-39
8	09/29/14 13:08:59	12.81	401.4	5.86	7.67	-46
9	09/29/14 13:09:19	12.84	406.4	5.47	7.61	-51
10	09/29/14 13:09:39	12.87	411.5	5.11	7.54	-56
11	09/29/14 13:09:59	12.83	417.4	4.80	7.49	-60
12	09/29/14 13:10:19	12.85	423.0	4.53	7.46	-66
13	09/29/14 13:10:39	12.79	426.1	4.29	7.43	-70
14	09/29/14 13:10:59	12.87	427.0	4.07	7.41	-72
15	09/29/14 13:11:19	12.86	429.0	3.89	7.40	-73
16	09/29/14 13:11:39	12.89	430.9	3.70	7.38	-74
17	09/29/14 13:11:59	12.85	433.1	3.56	7.37	-77
18	09/29/14 13:12:19	12.84	434.3	3.40	7.36	-78
19	09/29/14 13:12:39	12.77	435.6	3.30	7.36	-79
20	09/29/14 13:12:59	12.81	436.2	3.15	7.33	-79
21	09/29/14 13:13:19	12.84	437.1	3.04	7.33	-79
22	09/29/14 13:13:39	12.80	438.5	2.94	7.33	-82
23	09/29/14 13:13:59	12.76	439.5	2.86	7.33	-84
24	09/29/14 13:14:19	12.78	439.8	2.78	7.32	-83
25	09/29/14 13:14:39	12.82	439.9	2.68	7.33	-85
26	09/29/14 13:14:59	12.83	440.4	2.60	7.32	-87
27	09/29/14 13:15:19	12.82	441.0	2.53	7.32	-89
28	09/29/14 13:15:39	12.79	441.6	2.45	7.32	-91
29	09/29/14 13:15:59	12.76	442.0	2.43	7.32	-92

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
30	09/29/14 13:16:19	12.81	441.8	2.36	7.32	-93
31	09/29/14 13:16:39	12.79	442.2	2.30	7.32	-94
32	09/29/14 13:16:59	12.81	442.0	2.23	7.32	-95
33	09/29/14 13:17:19	12.76	442.6	2.19	7.32	-97
34	09/29/14 13:17:39	12.77	442.4	2.14	7.33	-98
35	09/29/14 13:17:59	12.81	441.9	2.08	7.32	-98
36	09/29/14 13:18:19	12.76	442.6	2.07	7.32	-98
37	09/29/14 13:18:39	12.80	442.1	2.00	7.33	-98
38	09/29/14 13:18:59	12.76	442.6	1.98	7.33	-99
39	09/29/14 13:19:19	12.75	442.7	1.96	7.33	-100
40	09/29/14 13:19:39	12.78	442.5	1.92	7.32	-102
41	09/29/14 13:19:59	12.72	443.0	1.91	7.32	-101
42	09/29/14 13:20:19	12.72	443.1	1.86	7.32	-102
43	09/29/14 13:20:39	12.73	442.7	1.85	7.32	-103
44	09/29/14 13:20:59	12.71	442.9	1.83	7.32	-104
45	09/29/14 13:21:19	12.76	442.4	1.79	7.31	-104
46	09/29/14 13:21:39	12.74	442.5	1.78	7.32	-105
47	09/29/14 13:21:59	12.73	442.7	1.76	7.32	-106
48	09/29/14 13:22:19	12.71	442.9	1.76	7.33	-105
49	09/29/14 13:22:39	12.75	442.6	1.72	7.33	-106
50	09/29/14 13:22:59	12.73	442.9	1.71	7.33	-107
51	09/29/14 13:23:19	12.71	443.5	1.71	7.33	-108
52	09/29/14 13:23:39	12.76	443.0	1.70	7.33	-108
53	09/29/14 13:23:59	12.70	443.6	1.68	7.34	-109
54	09/29/14 13:24:19	12.60	444.6	1.66	7.36	-111
55	09/29/14 13:24:39	12.66	443.9	1.64	7.33	-111
56	09/29/14 13:24:59	12.58	444.3	1.63	7.34	-111
57	09/29/14 13:25:19	12.66	443.3	1.61	7.33	-109
58	09/29/14 13:25:39	12.58	443.9	1.60	7.32	-107

W-116I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
59	09/29/14 13:25:59	12.56	443.9	1.59	7.32	-107
60	09/29/14 13:26:19	12.64	443.3	1.55	7.32	-108
61	09/29/14 13:26:39	12.63	443.3	1.56	7.32	-109
62	09/29/14 13:26:59	12.58	443.7	1.54	7.33	-110
63	09/29/14 13:27:19	12.55	443.9	1.54	7.33	-109
64	09/29/14 13:27:39	12.60	443.4	1.52	7.33	-106
65	09/29/14 13:27:59	12.57	443.6	1.53	7.32	-103
66	09/29/14 13:28:19	12.51	444.0	1.51	7.31	-104



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-110s-0914
Volatile bottles preserved by: JB 09/29/14 osCl 2725
Sampled by: ff

Date: 9.29-14
Time: 2:20 pm
Weather: wdy

Top of casing elevation: 637.98 ft
Depth to well bottom: 35.4 ft
Depth to static water level: 27.80 ft
Height of water column, H: 7.6 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.16 gallons
Volume of water evacuated: 3 2.6 gallons
Depth to static water level after purging: 27.86
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:55		28.00	11.70	6.65	4.29	114	6.80	20.9
2	2:10		28.00	11.59	6.91	3.58	139	1.82	-49.5
3	2:13		28.00	11.66	6.90	3.54	136	1.35	-51.6
4	2:16		28.00	11.63	6.89	7.61	138	1.22	-53.2
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
Other observations: mild
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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W-110s 0912 sls

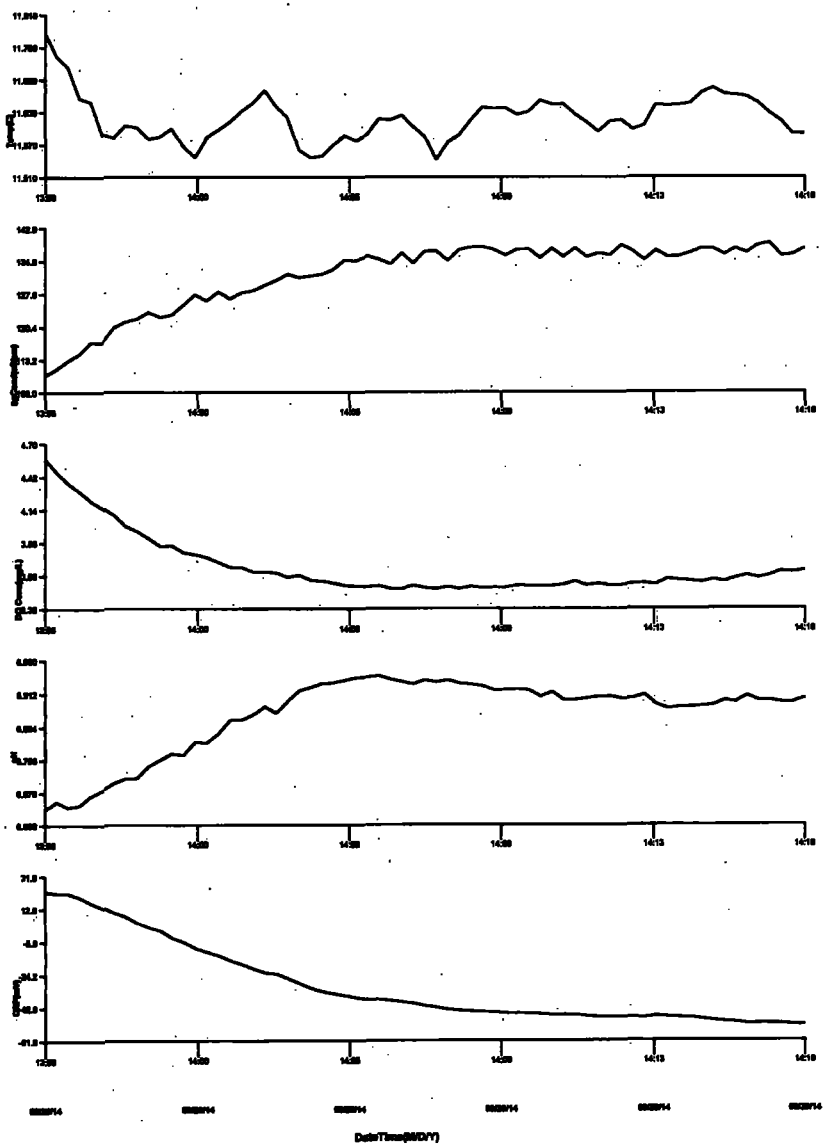
W-110S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/29/14 13:56:13	11.78	109.4	4.58	6.63	23
2	09/29/14 13:56:33	11.73	110.9	4.47	6.65	22
3	09/29/14 13:56:53	11.71	112.7	4.37	6.64	22
4	09/29/14 13:57:13	11.66	114.2	4.30	6.65	20
5	09/29/14 13:57:33	11.65	116.9	4.21	6.67	16
6	09/29/14 13:57:53	11.59	116.8	4.16	6.68	14
7	09/29/14 13:58:13	11.58	120.0	4.09	6.70	11
8	09/29/14 13:58:33	11.60	121.3	4.00	6.71	9
9	09/29/14 13:58:53	11.60	122.0	3.95	6.71	5
10	09/29/14 13:59:13	11.58	123.4	3.89	6.74	2
11	09/29/14 13:59:33	11.58	122.4	3.82	6.75	0
12	09/29/14 13:59:53	11.60	122.9	3.83	6.77	-4
13	09/29/14 14:00:13	11.56	125.1	3.77	6.77	-6
14	09/29/14 14:00:33	11.54	127.4	3.75	6.80	-10
15	09/29/14 14:00:53	11.58	126.0	3.73	6.80	-12
16	09/29/14 14:01:13	11.59	128.0	3.69	6.82	-14
17	09/29/14 14:01:33	11.61	126.5	3.64	6.85	-16
18	09/29/14 14:01:53	11.63	127.8	3.64	6.85	-19
19	09/29/14 14:02:13	11.65	128.3	3.60	6.86	-21
20	09/29/14 14:02:33	11.67	129.6	3.60	6.88	-23
21	09/29/14 14:02:53	11.64	130.6	3.59	6.87	-24
22	09/29/14 14:03:13	11.62	132.0	3.55	6.90	-27
23	09/29/14 14:03:33	11.56	131.3	3.57	6.92	-29
24	09/29/14 14:03:53	11.54	131.6	3.53	6.93	-32
25	09/29/14 14:04:13	11.55	131.9	3.52	6.94	-34

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/29/14 14:04:33	11.57	133.0	3.51	6.94	-35
27	09/29/14 14:04:53	11.58	135.1	3.49	6.94	-36
28	09/29/14 14:05:13	11.57	135.0	3.48	6.95	-38
29	09/29/14 14:05:33	11.59	136.0	3.47	6.95	-39
30	09/29/14 14:05:53	11.62	135.3	3.48	6.96	-39
31	09/29/14 14:06:13	11.61	134.2	3.46	6.95	-39
32	09/29/14 14:06:33	11.62	136.6	3.46	6.94	-40
33	09/29/14 14:06:53	11.60	134.4	3.49	6.94	-41
34	09/29/14 14:07:13	11.58	137.0	3.46	6.95	-42
35	09/29/14 14:07:33	11.54	137.1	3.46	6.94	-43
36	09/29/14 14:07:53	11.57	135.0	3.47	6.95	-44
37	09/29/14 14:08:13	11.59	137.4	3.46	6.94	-45
38	09/29/14 14:08:33	11.61	138.0	3.48	6.93	-45
39	09/29/14 14:08:53	11.64	138.1	3.46	6.93	-46
40	09/29/14 14:09:13	11.64	137.4	3.47	6.92	-46
41	09/29/14 14:09:33	11.64	136.2	3.47	6.92	-46
42	09/29/14 14:09:53	11.62	137.5	3.49	6.92	-47
43	09/29/14 14:10:13	11.63	137.5	3.48	6.92	-47
44	09/29/14 14:10:33	11.65	135.5	3.48	6.91	-47
45	09/29/14 14:10:53	11.64	137.7	3.48	6.92	-48
46	09/29/14 14:11:13	11.64	135.8	3.49	6.90	-47
47	09/29/14 14:11:33	11.62	137.7	3.52	6.90	-48
48	09/29/14 14:11:53	11.61	135.8	3.48	6.90	-48
49	09/29/14 14:12:13	11.59	136.6	3.50	6.91	-49
50	09/29/14 14:12:33	11.61	136.2	3.48	6.91	-49

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/29/14 14:12:53	11.61	138.5	3.49	6.90	-49
52	09/29/14 14:13:13	11.60	137.0	3.50	6.90	-49
53	09/29/14 14:13:33	11.60	135.1	3.50	6.91	-49
54	09/29/14 14:13:53	11.64	137.2	3.49	6.89	-48
55	09/29/14 14:14:13	11.64	135.8	3.54	6.88	-49
56	09/29/14 14:14:33	11.64	135.9	3.53	6.88	-49
57	09/29/14 14:14:53	11.65	136.7	3.52	6.88	-49
58	09/29/14 14:15:13	11.66	137.7	3.51	6.88	-50
59	09/29/14 14:15:33	11.67	137.6	3.53	6.89	-51
60	09/29/14 14:15:53	11.66	136.4	3.52	6.90	-51
61	09/29/14 14:16:13	11.66	137.7	3.54	6.89	-52
62	09/29/14 14:16:33	11.66	136.7	3.57	6.91	-53
63	09/29/14 14:16:53	11.65	138.4	3.55	6.90	-52
64	09/29/14 14:17:13	11.63	138.9	3.56	6.90	-53
65	09/29/14 14:17:33	11.61	136.0	3.60	6.89	-53
66	09/29/14 14:17:53	11.59	136.3	3.60	6.89	-53
67	09/29/14 14:18:13	11.59	137.7	3.61	6.90	-53

W-110S.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-110i-0914
Volatile bottles preserved by: JB 09/18/14 ESA 2725
Sampled by: TP

Date: 9-30-14
Time: 8:40 am
Weather: cool

Top of casing elevation: 638.08 ft
Depth to well bottom: 90.3 ft
Depth to static water level: 28.60 ft
Height of water column, H: 61.7 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 9.44 gallons
Volume of water evacuated: 2.5 26wc gallons
Depth to static water level after purging: 28.60
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:15		29.65	10.23	6.15	7.25	1077	21.0	-31.6
2	8:30		28.65	10.04	6.50	2.33	1018	5.72	-72.6
3	8:33		29.65	10.07	6.52	2.14	1001	4.87	-76.1
4	8:36		28.65	10.05	6.54	2.08	985	4.59	-78.1
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: (YES) NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 190

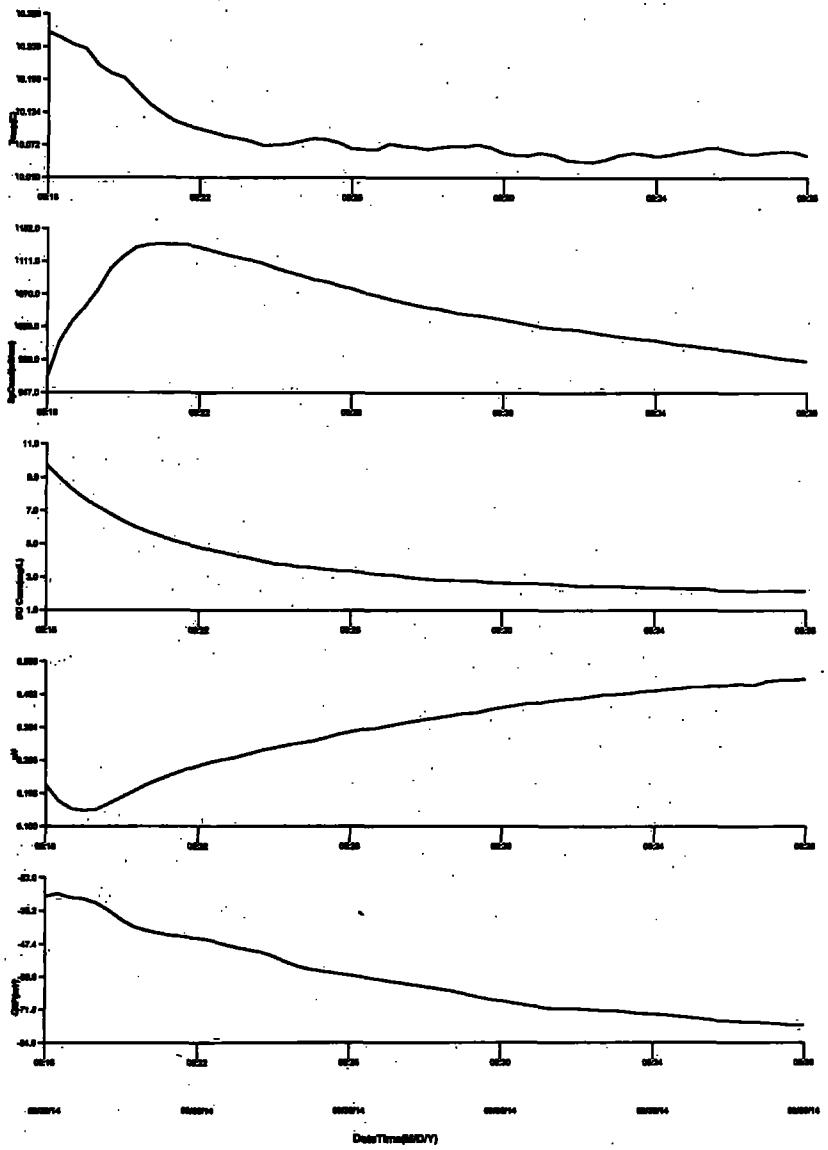
W-110I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/30/14 08:18:51	10.29	964.2	9.80	6.22	-30
2	09/30/14 08:19:11	10.28	1009.3	9.04	6.17	-29
3	09/30/14 08:19:31	10.26	1034.7	8.37	6.15	-30
4	09/30/14 08:19:51	10.26	1053.5	7.79	6.14	-30
5	09/30/14 08:20:11	10.22	1075.4	7.29	6.15	-32
6	09/30/14 08:20:31	10.21	1102.6	6.83	6.16	-35
7	09/30/14 08:20:51	10.20	1117.9	6.41	6.18	-38
8	09/30/14 08:21:11	10.17	1129.6	6.02	6.20	-41
9	09/30/14 08:21:31	10.15	1133.2	5.69	6.22	-42
10	09/30/14 08:21:51	10.13	1134.1	5.43	6.24	-43
11	09/30/14 08:22:11	10.12	1133.4	5.17	6.25	-44
12	09/30/14 08:22:31	10.11	1132.9	4.95	6.27	-45
13	09/30/14 08:22:51	10.10	1130.0	4.74	6.28	-45
14	09/30/14 08:23:11	10.09	1125.4	4.58	6.29	-46
15	09/30/14 08:23:31	10.09	1121.1	4.42	6.30	-47
16	09/30/14 08:23:51	10.08	1117.3	4.23	6.30	-49
17	09/30/14 08:24:11	10.08	1113.7	4.10	6.31	-50
18	09/30/14 08:24:31	10.07	1109.2	3.90	6.32	-50
19	09/30/14 08:24:51	10.07	1103.2	3.75	6.33	-52
20	09/30/14 08:25:11	10.07	1098.5	3.67	6.34	-54
21	09/30/14 08:25:31	10.08	1094.0	3.54	6.35	-56
22	09/30/14 08:25:51	10.08	1088.8	3.51	6.35	-57
23	09/30/14 08:26:11	10.08	1086.0	3.40	6.36	-58
24	09/30/14 08:26:31	10.07	1080.8	3.32	6.37	-58
25	09/30/14 08:26:51	10.06	1077.0	3.28	6.38	-59
26	09/30/14 08:27:11	10.06	1071.8	3.20	6.39	-60
27	09/30/14 08:27:31	10.06	1068.6	3.12	6.39	-61
28	09/30/14 08:27:51	10.07	1063.9	3.08	6.40	-61
29	09/30/14 08:28:11	10.07	1060.3	2.98	6.41	-62
30	09/30/14 08:28:31	10.07	1056.5	2.88	6.41	-63
31	09/30/14 08:28:51	10.06	1052.8	2.81	6.42	-63

W-110I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
32	09/30/14 08:29:11	10.06	1050.9	2.76	6.42	-64
33	09/30/14 08:29:31	10.07	1047.3	2.72	6.43	-65
34	09/30/14 08:29:51	10.07	1044.0	2.72	6.44	-66
35	09/30/14 08:30:11	10.07	1042.5	2.68	6.44	-67
36	09/30/14 08:30:31	10.06	1040.2	2.61	6.45	-68
37	09/30/14 08:30:51	10.05	1037.2	2.57	6.45	-69
38	09/30/14 08:31:11	10.05	1034.5	2.53	6.46	-70
39	09/30/14 08:31:31	10.05	1030.7	2.52	6.47	-71
40	09/30/14 08:31:51	10.05	1027.8	2.52	6.47	-71
41	09/30/14 08:32:11	10.05	1026.3	2.51	6.48	-72
42	09/30/14 08:32:31	10.04	1025.4	2.46	6.48	-72
43	09/30/14 08:32:51	10.04	1024.1	2.39	6.48	-72
44	09/30/14 08:33:11	10.04	1021.3	2.38	6.49	-72
45	09/30/14 08:33:31	10.04	1018.6	2.37	6.49	-73
46	09/30/14 08:33:51	10.05	1016.0	2.35	6.50	-73
47	09/30/14 08:34:11	10.05	1013.8	2.32	6.50	-73
48	09/30/14 08:34:31	10.05	1012.0	2.29	6.50	-74
49	09/30/14 08:34:51	10.05	1010.6	2.28	6.51	-74
50	09/30/14 08:35:11	10.05	1007.4	2.28	6.51	-74
51	09/30/14 08:35:31	10.06	1005.0	2.24	6.51	-75
52	09/30/14 08:35:51	10.06	1003.6	2.20	6.52	-75
53	09/30/14 08:36:11	10.06	1001.3	2.21	6.52	-76
54	09/30/14 08:36:31	10.06	999.7	2.13	6.52	-76
55	09/30/14 08:36:51	10.06	997.9	2.12	6.52	-77
56	09/30/14 08:37:11	10.05	995.9	2.11	6.53	-77
57	09/30/14 08:37:31	10.05	993.2	2.08	6.52	-77
58	09/30/14 08:37:51	10.06	990.6	2.10	6.53	-77
59	09/30/14 08:38:11	10.06	988.0	2.10	6.54	-78
60	09/30/14 08:38:31	10.06	986.3	2.09	6.54	-78
61	09/30/14 08:38:51	10.05	984.2	2.07	6.54	-78

W-110I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-114s-0914
Volatile bottles preserved by: JB 09/18/14 0822 2725
Sampled by: GH

Date: 9-30-14
Time: 9:25 am
Weather: cool

Top of casing elevation: 637.02 ft Depth to well bottom: 33.8 ft

Depth to static water level: 26.22 ft Height of water column, H: 7.58 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 1.16 gallons

Volume of water evacuated: 2.5 2.2mc gallons

Depth to static water level after purging: 26.27
Did well recover? YES NO

Method of evacuation: Peristaltic Purge Flow Rate: 400 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9		26.22	11.59	7.22	13.60	250	6.09	192
2	9:15		26.22	11.69	7.25	12.78	253	1.57	323
3	9:18		26.22	11.59	7.23	12.68	255	1.41	41.2
4	9:21		26.22	11.61	7.20	12.92	245	1.22	42.8
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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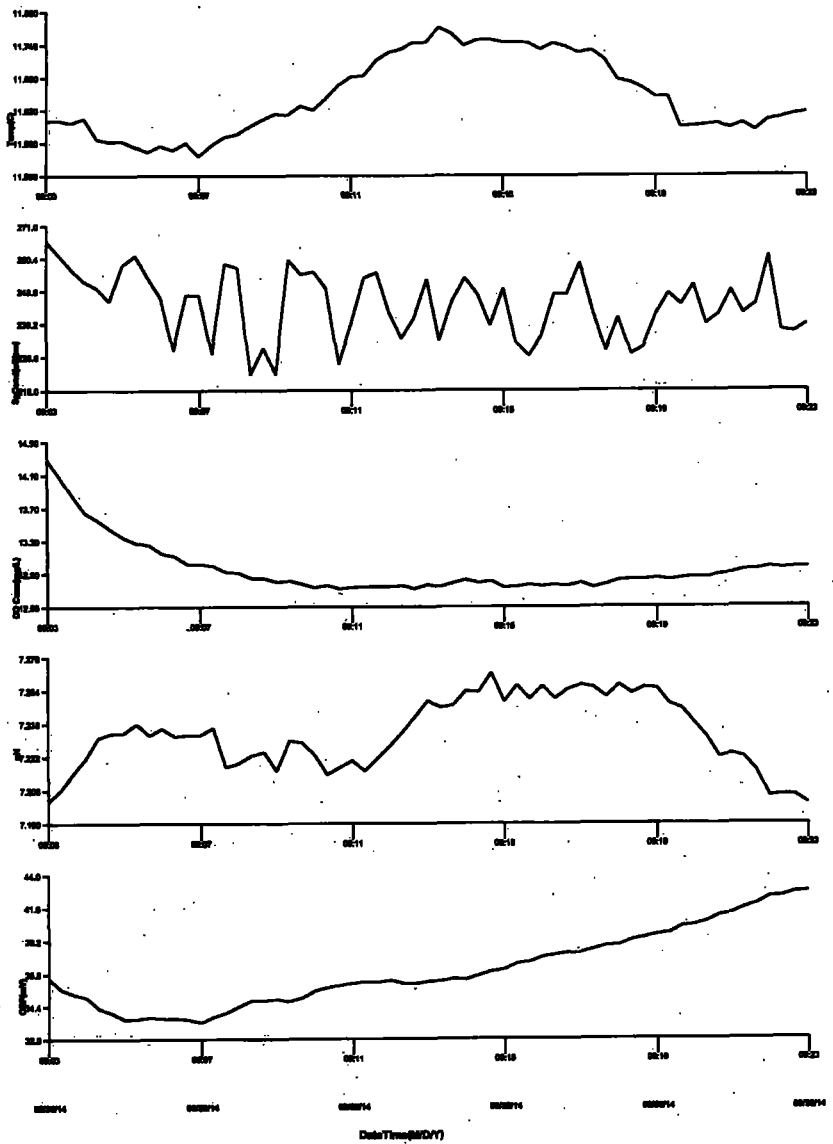
W-114S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/30/14 09:03:24	11.60	266.4	14.31	7.20	36
2	09/30/14 09:03:44	11.60	261.7	14.08	7.21	36
3	09/30/14 09:04:04	11.59	256.9	13.85	7.21	35
4	09/30/14 09:04:24	11.60	253.0	13.64	7.22	35
5	09/30/14 09:04:44	11.56	250.7	13.55	7.23	34
6	09/30/14 09:05:04	11.56	246.4	13.44	7.23	34
7	09/30/14 09:05:24	11.56	258.3	13.33	7.23	33
8	09/30/14 09:05:44	11.55	261.5	13.27	7.24	33
9	09/30/14 09:06:04	11.54	254.1	13.24	7.23	33
10	09/30/14 09:06:24	11.55	247.4	13.13	7.24	33
11	09/30/14 09:06:44	11.54	230.3	13.10	7.23	33
12	09/30/14 09:07:04	11.56	248.4	13.01	7.23	33
13	09/30/14 09:07:24	11.53	248.3	13.01	7.23	33
14	09/30/14 09:07:44	11.55	229.3	12.98	7.24	34
15	09/30/14 09:08:04	11.57	258.7	12.91	7.22	34
16	09/30/14 09:08:24	11.57	257.5	12.90	7.22	34
17	09/30/14 09:08:44	11.59	222.6	12.83	7.22	35
18	09/30/14 09:09:04	11.60	231.1	12.83	7.22	35
19	09/30/14 09:09:24	11.61	222.7	12.79	7.21	35
20	09/30/14 09:09:44	11.61	260.1	12.79	7.23	35
21	09/30/14 09:10:04	11.63	255.2	12.76	7.23	35
22	09/30/14 09:10:24	11.62	256.1	12.71	7.22	35
23	09/30/14 09:10:44	11.64	250.6	12.74	7.21	36
24	09/30/14 09:11:04	11.67	225.8	12.70	7.22	36
25	09/30/14 09:11:24	11.68	238.7	12.72	7.22	36
26	09/30/14 09:11:44	11.68	254.1	12.72	7.21	36
27	09/30/14 09:12:04	11.71	255.8	12.73	7.22	36
28	09/30/14 09:12:24	11.73	242.5	12.72	7.23	36
29	09/30/14 09:12:44	11.73	234.1	12.73	7.23	36
30	09/30/14 09:13:04	11.75	240.6	12.70	7.24	36
31	09/30/14 09:13:24	11.75	253.6	12.75	7.25	36

W-114S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
32	09/30/14 09:13:44	11.77	233.3	12.72	7.25	36
33	09/30/14 09:14:04	11.76	246.3	12.77	7.25	36
34	09/30/14 09:14:24	11.74	254.0	12.80	7.25	36
35	09/30/14 09:14:44	11.75	248.5	12.77	7.25	37
36	09/30/14 09:15:04	11.75	238.2	12.79	7.26	37
37	09/30/14 09:15:24	11.75	250.5	12.71	7.25	37
38	09/30/14 09:15:44	11.75	232.6	12.72	7.26	38
39	09/30/14 09:16:04	11.75	228.5	12.74	7.25	38
40	09/30/14 09:16:24	11.73	234.8	12.73	7.26	38
41	09/30/14 09:16:44	11.75	248.7	12.74	7.25	38
42	09/30/14 09:17:04	11.74	248.6	12.73	7.25	38
43	09/30/14 09:17:24	11.73	258.9	12.77	7.26	38
44	09/30/14 09:17:44	11.73	243.4	12.71	7.26	39
45	09/30/14 09:18:04	11.71	230.1	12.75	7.25	39
46	09/30/14 09:18:24	11.68	240.7	12.80	7.26	39
47	09/30/14 09:18:44	11.67	229.0	12.81	7.25	39
48	09/30/14 09:19:04	11.66	231.2	12.81	7.26	39
49	09/30/14 09:19:24	11.64	242.0	12.83	7.26	40
50	09/30/14 09:19:44	11.64	248.9	12.80	7.25	40
51	09/30/14 09:20:04	11.59	245.1	12.83	7.25	40
52	09/30/14 09:20:24	11.59	251.7	12.84	7.24	40
53	09/30/14 09:20:44	11.59	238.7	12.83	7.23	41
54	09/30/14 09:21:04	11.59	241.9	12.87	7.22	41
55	09/30/14 09:21:24	11.58	249.8	12.88	7.22	41
56	09/30/14 09:21:44	11.59	242.1	12.92	7.22	42
57	09/30/14 09:22:04	11.58	245.3	12.93	7.21	42
58	09/30/14 09:22:24	11.60	261.3	12.96	7.20	42
59	09/30/14 09:22:44	11.60	236.7	12.94	7.20	42
60	09/30/14 09:23:04	11.61	236.0	12.95	7.20	43
61	09/30/14 09:23:24	11.61	238.6	12.96	7.20	43

W-114S.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-114i-0914
Volatile bottles preserved by: SR 6/18/14 OSCI 2725
Sampled by: GJ

Date: 9.30-14
Time: 10.05 am
Weather: cool/sunny

Top of casing elevation: 636.92 ft Depth to well bottom: 83.025 ft

Depth to static water level: 27.55 ft Height of water column, H: 55.48 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 8.5 gallons

Volume of water evacuated: 7.5 .41 wc gallons

Depth to static water level after purging: 27.55
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:40		27.85	11.18	6.66	4.50	1964	5.53	-70.0
2	9:55		27.85	11.06	6.72	2.74	1966	2.96	-87.4
3	9:58		27.85	10.95	6.73	2.81	1969	2.94	-86.8
4	10:01		27.85	10.87	6.70	2.89	1982	3.04	-85.5
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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W-114i-0917.xls

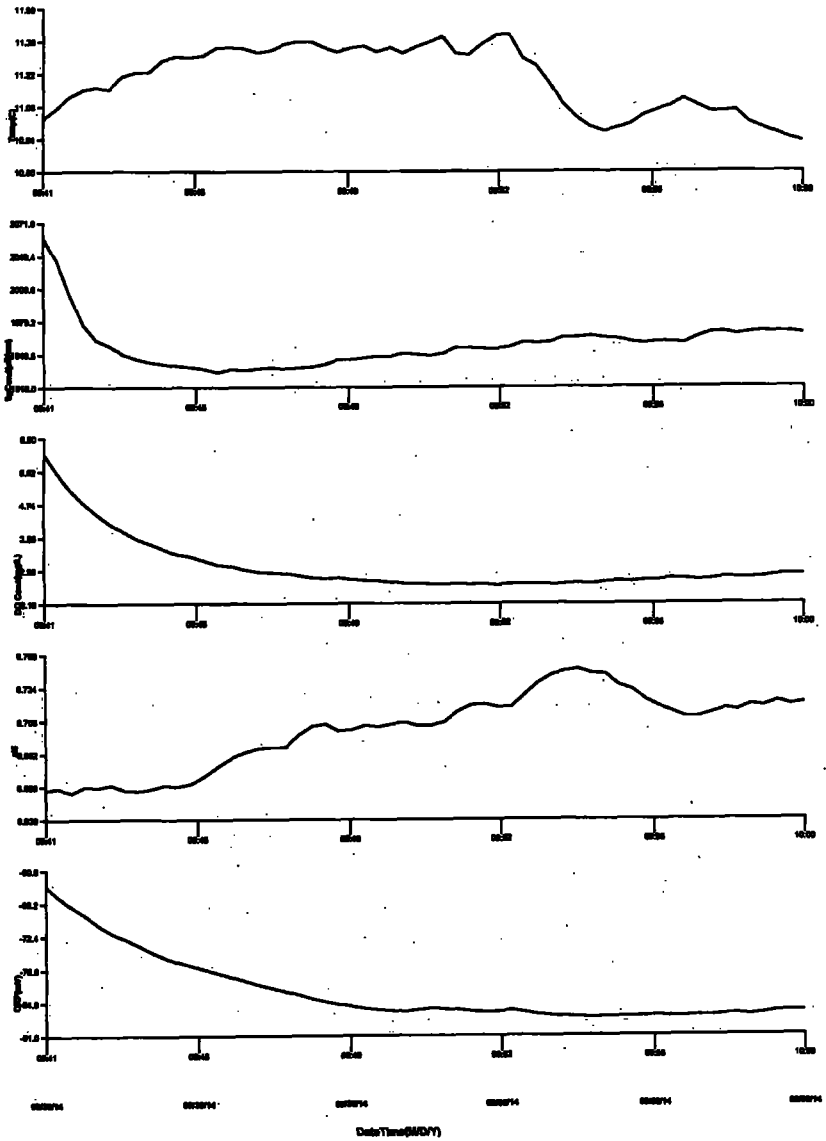
W-114I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/30/14 09:41:32	11.02	2058.1	6.12	6.65	-63
2	09/30/14 09:41:52	11.07	2037.4	5.60	6.65	-65
3	09/30/14 09:42:12	11.12	2003.3	5.12	6.65	-67
4	09/30/14 09:42:32	11.15	1975.6	4.77	6.65	-68
5	09/30/14 09:42:52	11.16	1960.8	4.48	6.65	-70
6	09/30/14 09:43:12	11.15	1955.8	4.22	6.66	-72
7	09/30/14 09:43:32	11.21	1947.5	4.00	6.65	-73
8	09/30/14 09:43:52	11.23	1943.4	3.81	6.65	-74
9	09/30/14 09:44:12	11.23	1940.2	3.68	6.65	-75
10	09/30/14 09:44:32	11.28	1938.8	3.53	6.66	-76
11	09/30/14 09:44:52	11.29	1936.8	3.38	6.66	-77
12	09/30/14 09:45:12	11.29	1935.7	3.33	6.66	-78
13	09/30/14 09:45:32	11.30	1933.8	3.21	6.66	-79
14	09/30/14 09:45:52	11.33	1930.9	3.10	6.67	-79
15	09/30/14 09:46:12	11.33	1933.4	3.06	6.68	-80
16	09/30/14 09:46:32	11.33	1932.3	2.96	6.68	-81
17	09/30/14 09:46:52	11.31	1934.1	2.91	6.69	-82
18	09/30/14 09:47:12	11.32	1934.9	2.88	6.69	-82
19	09/30/14 09:47:32	11.35	1934.2	2.86	6.69	-83
20	09/30/14 09:47:52	11.36	1934.5	2.80	6.70	-84
21	09/30/14 09:48:12	11.36	1935.5	2.74	6.70	-84
22	09/30/14 09:48:32	11.34	1937.9	2.73	6.71	-85
23	09/30/14 09:48:52	11.31	1942.3	2.74	6.70	-85
24	09/30/14 09:49:12	11.33	1942.4	2.70	6.70	-86
25	09/30/14 09:49:32	11.34	1944.0	2.67	6.70	-86
26	09/30/14 09:49:52	11.31	1945.6	2.66	6.70	-86
27	09/30/14 09:50:12	11.33	1945.1	2.62	6.71	-87
28	09/30/14 09:50:32	11.31	1948.1	2.59	6.71	-87
29	09/30/14 09:50:52	11.34	1947.0	2.58	6.70	-86

W-114I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
30	09/30/14 09:51:12	11.36	1946.3	2.58	6.70	-86
31	09/30/14 09:51:32	11.38	1948.1	2.56	6.71	-86
32	09/30/14 09:51:52	11.31	1953.5	2.57	6.72	-86
33	09/30/14 09:52:12	11.30	1953.3	2.55	6.72	-87
34	09/30/14 09:52:32	11.35	1952.5	2.57	6.72	-87
35	09/30/14 09:52:52	11.39	1952.4	2.54	6.72	-87
36	09/30/14 09:53:12	11.39	1954.0	2.56	6.72	-87
37	09/30/14 09:53:32	11.29	1958.7	2.57	6.73	-87
38	09/30/14 09:53:52	11.25	1958.2	2.58	6.74	-87
39	09/30/14 09:54:12	11.18	1958.9	2.57	6.74	-88
40	09/30/14 09:54:32	11.09	1962.8	2.57	6.75	-88
41	09/30/14 09:54:52	11.03	1963.1	2.60	6.75	-88
42	09/30/14 09:55:12	10.99	1964.4	2.57	6.75	-88
43	09/30/14 09:55:32	10.97	1962.6	2.62	6.75	-88
44	09/30/14 09:55:52	10.98	1961.3	2.64	6.74	-88
45	09/30/14 09:56:12	11.00	1958.7	2.62	6.73	-88
46	09/30/14 09:56:32	11.04	1957.4	2.66	6.72	-88
47	09/30/14 09:56:52	11.06	1959.2	2.67	6.72	-88
48	09/30/14 09:57:12	11.08	1958.4	2.71	6.71	-88
49	09/30/14 09:57:32	11.11	1957.5	2.70	6.71	-88
50	09/30/14 09:57:52	11.08	1963.0	2.67	6.71	-88
51	09/30/14 09:58:12	11.06	1967.4	2.69	6.71	-88
52	09/30/14 09:58:32	11.05	1967.6	2.74	6.72	-87
53	09/30/14 09:58:52	11.06	1965.8	2.73	6.72	-87
54	09/30/14 09:59:12	11.01	1967.3	2.73	6.72	-88
55	09/30/14 09:59:32	10.98	1968.8	2.74	6.72	-87
56	09/30/14 09:59:52	10.96	1967.9	2.80	6.72	-87
57	09/30/14 10:00:12	10.94	1967.8	2.81	6.72	-87
58	09/30/14 10:00:32	10.92	1966.3	2.81	6.72	-87

W-114I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-117s-0914
Volatile bottles preserved by: SR 04/15/14 0851 2725
Sampled by: CP

Date: 9.30.14
Time: 11 am
Weather: cool

Top of casing elevation: 641.04 ft Depth to well bottom: 34.35 ft

Depth to static water level: 28.36 ft Height of water column, H: 5.99 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. .92 gallons

Volume of water evacuated: 3 3.3 gallons

Depth to static water level after purging: 28.48
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:35		28.45	9.87	6.97	24.90	338	2.72	30.6
2	10:50		28.45	9.85	6.93	23.30	338	.51	40.5
3	10:53		28.45	9.85	6.93	23.24	339	.77	41.5
4	10:56		28.45	9.89	6.92	22.90	338	.68	42.7
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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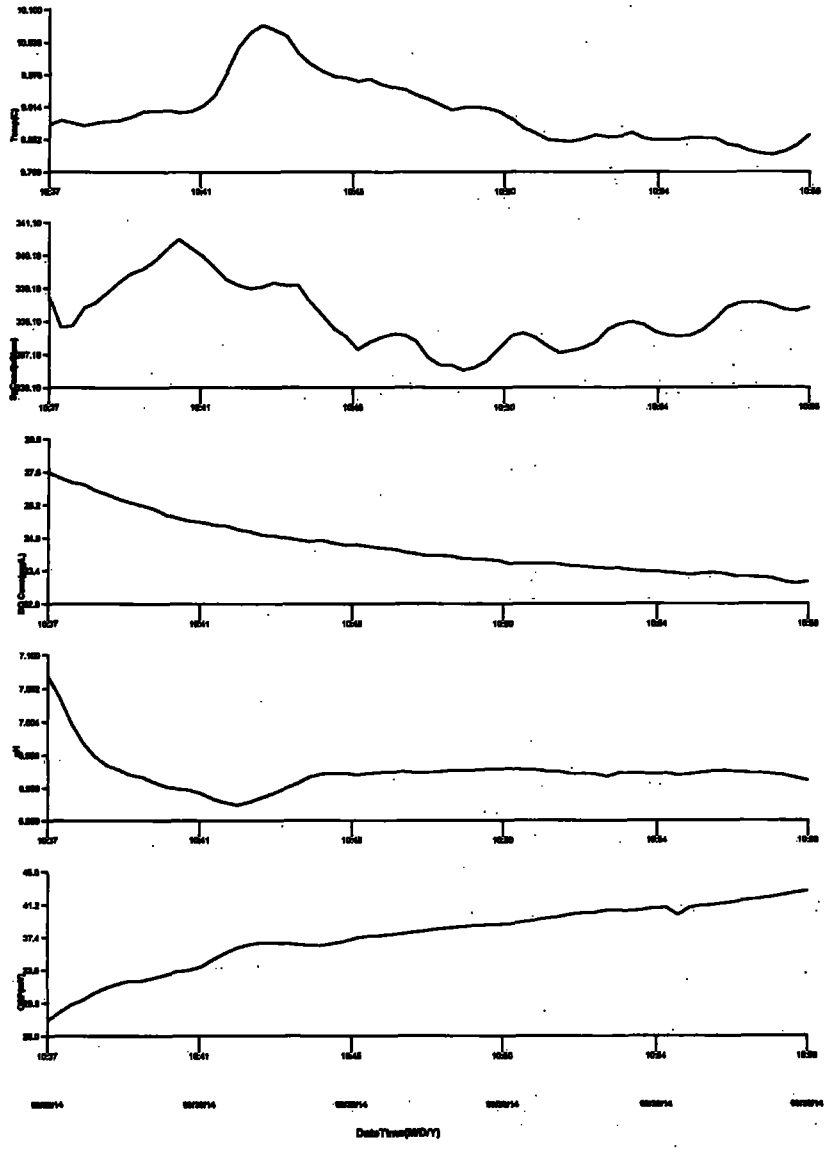
	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/30/14 10:37:26	9.88	338.9	27.60	7.07	28
2	09/30/14 10:37:46	9.89	337.9	27.37	7.04	29
3	09/30/14 10:38:06	9.88	338.0	27.17	7.00	29
4	09/30/14 10:38:26	9.88	338.5	27.09	6.97	30
5	09/30/14 10:38:46	9.88	338.7	26.83	6.95	31
6	09/30/14 10:39:06	9.88	338.9	26.66	6.94	31
7	09/30/14 10:39:26	9.89	339.3	26.46	6.93	32
8	09/30/14 10:39:46	9.89	339.6	26.31	6.93	32
9	09/30/14 10:40:06	9.90	339.7	26.16	6.92	32
10	09/30/14 10:40:26	9.90	340.0	26.01	6.91	33
11	09/30/14 10:40:46	9.91	340.3	25.77	6.91	33
12	09/30/14 10:41:06	9.90	340.6	25.63	6.91	33
13	09/30/14 10:41:26	9.90	340.4	25.50	6.90	34
14	09/30/14 10:41:46	9.91	340.1	25.45	6.90	34
15	09/30/14 10:42:06	9.94	339.7	25.34	6.89	35
16	09/30/14 10:42:26	9.98	339.4	25.30	6.88	36
17	09/30/14 10:42:46	10.03	339.2	25.14	6.88	36
18	09/30/14 10:43:06	10.06	339.1	25.04	6.89	37
19	09/30/14 10:43:26	10.07	339.1	24.91	6.89	37
20	09/30/14 10:43:46	10.06	339.3	24.86	6.90	37
21	09/30/14 10:44:06	10.05	339.2	24.77	6.91	37
22	09/30/14 10:44:26	10.02	339.2	24.69	6.91	37
23	09/30/14 10:44:46	10.00	338.7	24.61	6.92	37
24	09/30/14 10:45:06	9.98	338.3	24.67	6.93	36
25	09/30/14 10:45:26	9.97	337.9	24.54	6.93	37

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/30/14 10:45:46	9.97	337.6	24.46	6.93	37
27	09/30/14 10:46:06	9.96	337.2	24.47	6.93	37
28	09/30/14 10:46:26	9.97	337.4	24.40	6.93	38
29	09/30/14 10:46:46	9.96	337.6	24.33	6.93	38
30	09/30/14 10:47:06	9.95	337.7	24.29	6.93	38
31	09/30/14 10:47:26	9.95	337.7	24.14	6.93	38
32	09/30/14 10:47:46	9.94	337.5	24.07	6.93	38
33	09/30/14 10:48:06	9.93	337.0	23.98	6.93	38
34	09/30/14 10:48:26	9.92	336.7	23.99	6.93	38
35	09/30/14 10:48:46	9.91	336.7	23.97	6.93	39
36	09/30/14 10:49:06	9.91	336.6	23.86	6.93	39
37	09/30/14 10:49:26	9.91	336.7	23.85	6.93	39
38	09/30/14 10:49:46	9.91	336.9	23.83	6.93	39
39	09/30/14 10:50:06	9.90	337.2	23.78	6.93	39
40	09/30/14 10:50:26	9.89	337.6	23.64	6.94	39
41	09/30/14 10:50:46	9.87	337.7	23.65	6.93	39
42	09/30/14 10:51:06	9.86	337.6	23.66	6.93	39
43	09/30/14 10:51:26	9.85	337.3	23.66	6.93	40
44	09/30/14 10:51:46	9.85	337.1	23.64	6.93	40
45	09/30/14 10:52:06	9.85	337.2	23.55	6.93	40
46	09/30/14 10:52:26	9.85	337.3	23.53	6.93	40
47	09/30/14 10:52:46	9.86	337.4	23.48	6.93	40
48	09/30/14 10:53:06	9.85	337.8	23.44	6.92	41
49	09/30/14 10:53:26	9.86	338.0	23.46	6.93	41
50	09/30/14 10:53:46	9.86	338.1	23.35	6.93	41

W-117S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/30/14 10:54:06	9.85	338.0	23.31	6.93	41
52	09/30/14 10:54:26	9.85	337.8	23.32	6.93	41
53	09/30/14 10:54:46	9.85	337.7	23.26	6.93	41
54	09/30/14 10:55:06	9.85	337.6	23.22	6.93	40
55	09/30/14 10:55:26	9.85	337.7	23.16	6.93	41
56	09/30/14 10:55:46	9.85	337.8	23.22	6.93	41
57	09/30/14 10:56:06	9.85	338.1	23.24	6.93	41
58	09/30/14 10:56:26	9.84	338.5	23.20	6.93	41
59	09/30/14 10:56:46	9.84	338.6	23.07	6.93	42
60	09/30/14 10:57:06	9.83	338.7	23.08	6.93	42
61	09/30/14 10:57:26	9.82	338.7	23.05	6.93	42
62	09/30/14 10:57:46	9.82	338.6	23.01	6.93	42
63	09/30/14 10:58:06	9.83	338.4	22.87	6.93	42
64	09/30/14 10:58:26	9.84	338.4	22.79	6.92	43
65	09/30/14 10:58:46	9.86	338.5	22.87	6.92	43

W-117S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-117i-0914
Volatile bottles preserved by: JB 09/30/14 escl 2725
Sampled by: TP

Date: 9.30.14
Time: 11:35 am
Weather: clear

Top of casing elevation: 641.03 ft
Depth to well bottom: 87.3 ft
Depth to static water level: 30.22 ft
Height of water column, H: 57.08 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 8.7 gallons
Volume of water evacuated: 3 .34ac gallons
Depth to static water level after purging: 30.27
Did well recover? YES NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:10		30.30	10.27	6.83	6.91	954	2.15	-73.4
2	11:25		30.32	10.67	7.14	2.95	948	.84	-116.5
3	11:28		30.32	10.52	7.13	2.28	943	.92	-114.7
4	11:31		30.32	10.65	7.09	2.36	940	.82	-117.5
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 207

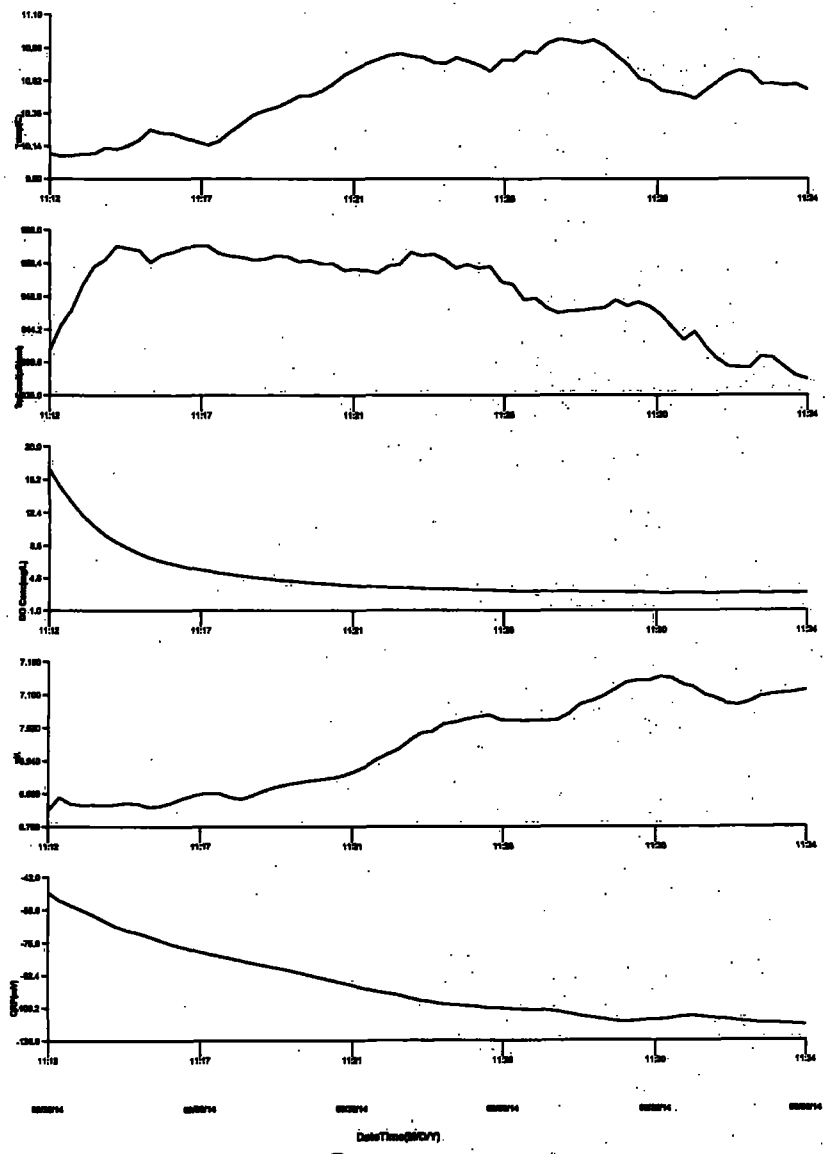
W-117I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/30/14 11:12:39	10.07	941.1	17.62	6.81	-49
2	09/30/14 11:12:59	10.06	944.8	15.48	6.85	-53
3	09/30/14 11:13:19	10.06	946.8	13.64	6.83	-56
4	09/30/14 11:13:39	10.07	950.4	12.07	6.83	-59
5	09/30/14 11:13:59	10.08	953.0	10.83	6.83	-61
6	09/30/14 11:14:19	10.12	954.0	9.78	6.83	-64
7	09/30/14 11:14:39	10.11	955.9	8.92	6.83	-67
8	09/30/14 11:14:59	10.13	955.6	8.23	6.83	-69
9	09/30/14 11:15:19	10.18	955.3	7.60	6.83	-71
10	09/30/14 11:15:39	10.25	953.6	7.06	6.82	-72
11	09/30/14 11:15:59	10.23	954.7	6.66	6.83	-74
12	09/30/14 11:16:19	10.22	955.1	6.32	6.84	-76
13	09/30/14 11:16:39	10.19	955.7	5.98	6.85	-78
14	09/30/14 11:16:59	10.17	955.9	5.74	6.85	-80
15	09/30/14 11:17:19	10.14	955.9	5.53	6.86	-81
16	09/30/14 11:17:39	10.17	954.9	5.25	6.86	-82
17	09/30/14 11:17:59	10.24	954.5	5.07	6.85	-84
18	09/30/14 11:18:19	10.30	954.4	4.88	6.84	-85
19	09/30/14 11:18:39	10.36	954.0	4.71	6.85	-86
20	09/30/14 11:18:59	10.40	954.1	4.57	6.86	-88
21	09/30/14 11:19:19	10.42	954.5	4.42	6.87	-89
22	09/30/14 11:19:39	10.46	954.4	4.31	6.88	-90
23	09/30/14 11:19:59	10.51	953.7	4.20	6.88	-91
24	09/30/14 11:20:19	10.51	953.9	4.09	6.89	-93
25	09/30/14 11:20:39	10.54	953.4	3.97	6.89	-94

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/30/14 11:20:59	10.60	953.5	3.88	6.90	-95
27	09/30/14 11:21:19	10.67	952.5	3.78	6.90	-97
28	09/30/14 11:21:39	10.71	952.7	3.69	6.91	-98
29	09/30/14 11:21:59	10.75	952.4	3.62	6.92	-100
30	09/30/14 11:22:19	10.78	952.1	3.57	6.94	-101
31	09/30/14 11:22:39	10.81	953.1	3.52	6.96	-102
32	09/30/14 11:22:59	10.82	953.3	3.47	6.97	-103
33	09/30/14 11:23:19	10.81	955.0	3.45	6.99	-105
34	09/30/14 11:23:39	10.80	954.5	3.36	7.01	-106
35	09/30/14 11:23:59	10.76	954.8	3.33	7.01	-107
36	09/30/14 11:24:19	10.75	954.0	3.31	7.03	-108
37	09/30/14 11:24:39	10.79	952.8	3.27	7.03	-108
38	09/30/14 11:24:59	10.77	953.3	3.21	7.04	-109
39	09/30/14 11:25:19	10.74	952.8	3.15	7.05	-109
40	09/30/14 11:25:39	10.69	953.0	3.15	7.05	-110
41	09/30/14 11:25:59	10.78	950.9	3.09	7.04	-110
42	09/30/14 11:26:19	10.77	950.5	3.05	7.04	-110
43	09/30/14 11:26:39	10.84	948.3	3.01	7.04	-111
44	09/30/14 11:26:59	10.83	948.6	3.05	7.04	-111
45	09/30/14 11:27:19	10.90	947.2	3.01	7.04	-111
46	09/30/14 11:27:39	10.93	946.5	3.01	7.04	-112
47	09/30/14 11:27:59	10.92	946.7	3.03	7.05	-113
48	09/30/14 11:28:19	10.90	946.8	2.97	7.08	-114
49	09/30/14 11:28:39	10.93	947.0	2.96	7.09	-115
50	09/30/14 11:28:59	10.88	947.2	2.97	7.10	-116

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/30/14 11:29:19	10.81	948.3	2.95	7.12	-117
52	09/30/14 11:29:39	10.74	947.5	2.92	7.13	-117
53	09/30/14 11:29:59	10.64	948.0	2.93	7.14	-117
54	09/30/14 11:30:19	10.61	947.4	2.90	7.14	-116
55	09/30/14 11:30:39	10.55	946.3	2.87	7.15	-116
56	09/30/14 11:30:59	10.53	944.4	2.86	7.14	-115
57	09/30/14 11:31:19	10.52	942.6	2.89	7.13	-114
58	09/30/14 11:31:39	10.49	943.8	2.88	7.12	-114
59	09/30/14 11:31:59	10.55	941.6	2.85	7.10	-115
60	09/30/14 11:32:19	10.61	939.9	2.83	7.09	-115
61	09/30/14 11:32:39	10.67	938.8	2.81	7.08	-116
62	09/30/14 11:32:59	10.70	938.7	2.84	7.08	-117
63	09/30/14 11:33:19	10.68	938.7	2.88	7.08	-117
64	09/30/14 11:33:39	10.60	940.2	2.83	7.10	-118
65	09/30/14 11:33:59	10.60	940.1	2.83	7.10	-118
66	09/30/14 11:34:19	10.59	938.8	2.85	7.11	-118
67	09/30/14 11:34:39	10.59	937.5	2.84	7.11	-118
68	09/30/14 11:34:59	10.55	937.0	2.87	7.11	-119

W-117LDAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-120s-0914
Volatile bottles preserved by: JB 09/10/14 acct 2725
Sampled by: fp

Date: 9.30.14
Time: 1:05 pm
Weather: cool

Top of casing elevation: 642.18 ft
Depth to well bottom: 34.25 ft
Depth to static water level: 26.20 ft
Height of water column, H: 8.05 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.23 gallons
Volume of water evacuated: 3 2.4wc gallons
Depth to static water level after purging: 26.20
Did well recover? YES NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:40		26.30	11.31	7.34	16.25	244	4.25	483
2	12:55		26.29	11.54	7.40	13.01	220	.76	472.0
3	12:58		26.29	11.53	7.41	13.07	216	.53	472.0
4	1:01		26.29	11.53	7.41	12.92	223	.77	472.3
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.: small bubbles built up on D.O. probe

Signature:

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W-120S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
6	09/30/14 12:42:07	11.40	232.5	16.50	7.33	48
7	09/30/14 12:42:27	11.38	229.6	16.39	7.33	47
8	09/30/14 12:42:47	11.40	247.1	16.23	7.34	47
9	09/30/14 12:43:07	11.38	240.0	16.05	7.34	47
10	09/30/14 12:43:27	11.41	235.4	16.08	7.35	46
11	09/30/14 12:43:47	11.38	235.6	16.10	7.35	46
12	09/30/14 12:44:07	11.36	231.7	15.95	7.34	46
13	09/30/14 12:44:27	11.36	232.3	15.67	7.34	46
14	09/30/14 12:44:47	11.38	224.7	15.52	7.34	46
15	09/30/14 12:45:07	11.38	230.3	15.65	7.35	45
16	09/30/14 12:45:27	11.39	220.6	15.63	7.35	45
17	09/30/14 12:45:47	11.40	240.1	15.58	7.36	45
18	09/30/14 12:46:07	11.39	231.5	15.54	7.36	45
19	09/30/14 12:46:27	11.38	216.0	15.05	7.36	45
20	09/30/14 12:46:47	11.39	232.8	15.02	7.35	45
21	09/30/14 12:47:07	11.41	219.7	15.17	7.37	44
22	09/30/14 12:47:27	11.40	223.1	15.14	7.36	45
23	09/30/14 12:47:47	11.43	228.5	14.91	7.37	45
24	09/30/14 12:48:07	11.41	219.4	14.76	7.37	45
25	09/30/14 12:48:27	11.42	215.6	14.82	7.37	44
26	09/30/14 12:48:47	11.43	219.3	14.81	7.38	44
27	09/30/14 12:49:07	11.45	217.5	14.58	7.36	44
28	09/30/14 12:49:27	11.42	217.9	14.50	7.38	44
29	09/30/14 12:49:47	11.41	227.8	14.37	7.37	44
30	09/30/14 12:50:07	11.41	229.8	14.35	7.38	44

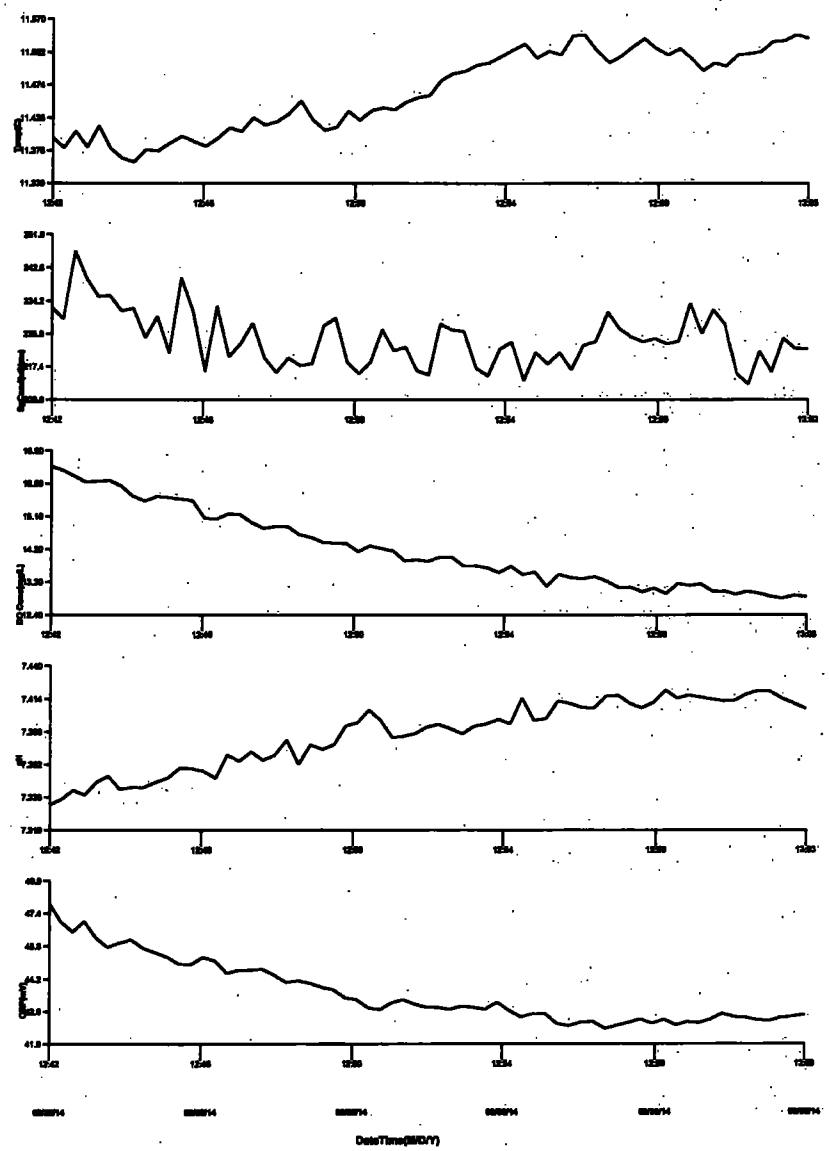
W-120S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	09/30/14 12:50:27	11.43	218.2	14.33	7.39	43
32	09/30/14 12:50:47	11.42	215.3	14.10	7.40	43
33	09/30/14 12:51:07	11.44	218.3	14.27	7.41	43
34	09/30/14 12:51:27	11.44	226.7	14.20	7.40	43
35	09/30/14 12:51:47	11.44	221.2	14.13	7.38	43
36	09/30/14 12:52:07	11.45	222.1	13.85	7.38	43
37	09/30/14 12:52:27	11.45	216.1	13.88	7.39	43
38	09/30/14 12:52:47	11.46	214.9	13.83	7.39	43
39	09/30/14 12:53:07	11.48	228.2	13.95	7.39	43
40	09/30/14 12:53:27	11.49	226.6	13.96	7.39	43
41	09/30/14 12:53:47	11.49	226.3	13.71	7.39	43
42	09/30/14 12:54:07	11.50	216.8	13.71	7.39	43
43	09/30/14 12:54:27	11.51	214.7	13.66	7.39	43
44	09/30/14 12:54:47	11.52	221.7	13.53	7.40	43
45	09/30/14 12:55:07	11.53	223.4	13.70	7.39	43
46	09/30/14 12:55:27	11.54	213.5	13.47	7.42	42
47	09/30/14 12:55:47	11.51	220.7	13.54	7.40	42
48	09/30/14 12:56:07	11.52	217.8	13.14	7.40	42
49	09/30/14 12:56:27	11.52	220.6	13.47	7.41	42
50	09/30/14 12:56:47	11.55	216.3	13.39	7.41	42
51	09/30/14 12:57:07	11.55	222.6	13.36	7.41	42
52	09/30/14 12:57:27	11.53	223.6	13.41	7.41	42
53	09/30/14 12:57:47	11.51	231.3	13.28	7.42	42
54	09/30/14 12:58:07	11.52	226.9	13.11	7.42	42
55	09/30/14 12:58:27	11.53	224.8	13.12	7.41	42

W-120S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
56	09/30/14 12:58:47	11.54	223.5	12.99	7.41	42
57	09/30/14 12:59:07	11.53	224.4	13.08	7.41	42
58	09/30/14 12:59:27	11.52	223.0	12.94	7.42	42
59	09/30/14 12:59:47	11.53	223.7	13.21	7.41	42
60	09/30/14 13:00:07	11.51	233.5	13.16	7.42	42
61	09/30/14 13:00:27	11.49	225.7	13.19	7.42	42
62	09/30/14 13:00:47	11.51	231.8	13.01	7.41	42
63	09/30/14 13:01:07	11.50	228.2	13.01	7.41	42
64	09/30/14 13:01:27	11.52	215.3	12.92	7.41	42
65	09/30/14 13:01:47	11.52	212.6	13.00	7.42	42
66	09/30/14 13:02:07	11.52	221.1	12.95	7.42	42
67	09/30/14 13:02:27	11.54	215.7	12.86	7.42	42
68	09/30/14 13:02:47	11.54	224.4	12.81	7.41	42
69	09/30/14 13:03:07	11.55	221.7	12.90	7.41	42
70	09/30/14 13:03:27	11.54	221.7	12.86	7.41	42

W-120S.DAT



Groundwater Sampling
Field Data Form

Project name: Oti Story Cordova
Sampling point: W-120i-0914
Volatile bottles preserved by: SB 09/09/14 0SCL 2725
Sampled by: SF

Date: 9.30.14
Time: 1.46 pm
Weather: cool

Top of casing elevation: 642.32 ft
Depth to well bottom: 87.8 ft
Depth to static water level: 29.57 ft
Height of water column, H: 58.23 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft: 8.9 gallons
Volume of water evacuated: 5 .56 ac gallons
Depth to static water level after purging: 29.57
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:26		29.78	10.40	6.90	5.48	636	9.42	-19.8
2	1:35		29.76	10.54	7.09	2.54	655	50.5	-107.0
3	1:58		29-70	10.54	7.10	2.48	655	52.7	-107.8
4	1:41		29.70	10.58	7.10	2.41	654	53.3	-108.6
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: (YES) NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

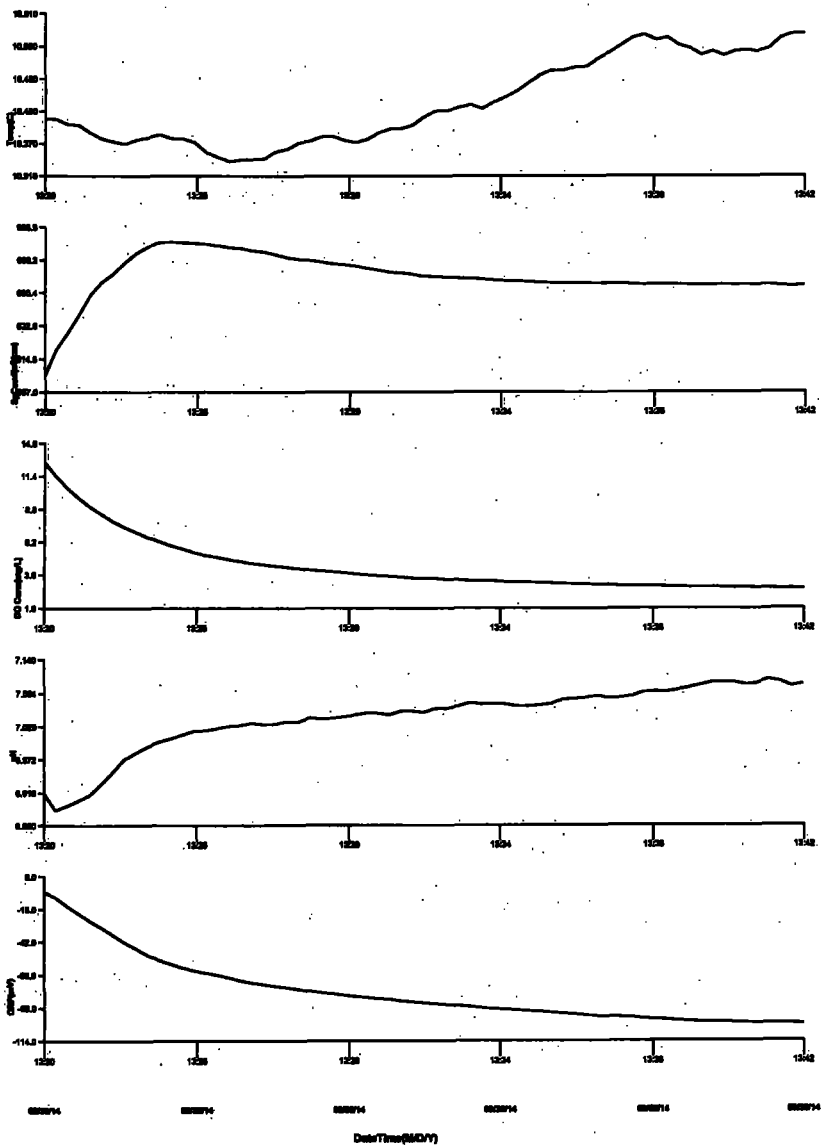
W-120I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	09/30/14 13:20:49	10.41	604.5	12.62	6.91	-4
2	09/30/14 13:21:09	10.41	619.2	11.44	6.88	-9
3	09/30/14 13:21:29	10.40	628.2	10.53	6.89	-15
4	09/30/14 13:21:49	10.40	638.2	9.69	6.90	-21
5	09/30/14 13:22:09	10.39	649.0	9.01	6.91	-26
6	09/30/14 13:22:29	10.38	656.2	8.39	6.93	-31
7	09/30/14 13:22:49	10.37	660.8	7.83	6.95	-37
8	09/30/14 13:23:09	10.37	667.1	7.38	6.97	-42
9	09/30/14 13:23:29	10.37	672.4	6.94	6.98	-47
10	09/30/14 13:23:49	10.38	675.9	6.53	6.99	-51
11	09/30/14 13:24:09	10.39	678.3	6.18	7.00	-55
12	09/30/14 13:24:29	10.38	678.5	5.88	7.01	-58
13	09/30/14 13:24:49	10.38	678.2	5.60	7.01	-61
14	09/30/14 13:25:09	10.37	677.7	5.29	7.02	-63
15	09/30/14 13:25:29	10.35	677.4	5.07	7.02	-65
16	09/30/14 13:25:49	10.34	676.5	4.92	7.03	-66
17	09/30/14 13:26:09	10.33	675.5	4.73	7.03	-68
18	09/30/14 13:26:29	10.34	675.0	4.58	7.03	-71
19	09/30/14 13:26:49	10.34	673.7	4.44	7.03	-72
20	09/30/14 13:27:09	10.34	673.0	4.33	7.03	-73
21	09/30/14 13:27:29	10.35	671.5	4.22	7.03	-75
22	09/30/14 13:27:49	10.36	669.8	4.11	7.04	-76
23	09/30/14 13:28:09	10.37	669.0	4.01	7.04	-77
24	09/30/14 13:28:29	10.37	668.3	3.90	7.04	-79
25	09/30/14 13:28:49	10.38	667.4	3.81	7.04	-80

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	09/30/14 13:29:09	10.38	666.4	3.74	7.04	-81
27	09/30/14 13:29:29	10.37	666.0	3.67	7.05	-82
28	09/30/14 13:29:49	10.37	665.0	3.56	7.05	-83
29	09/30/14 13:30:09	10.38	663.7	3.48	7.05	-83
30	09/30/14 13:30:29	10.39	662.9	3.42	7.05	-84
31	09/30/14 13:30:49	10.40	661.6	3.38	7.05	-85
32	09/30/14 13:31:09	10.40	661.3	3.29	7.05	-86
33	09/30/14 13:31:29	10.40	660.6	3.24	7.06	-87
34	09/30/14 13:31:49	10.42	659.6	3.20	7.05	-87
35	09/30/14 13:32:09	10.43	659.2	3.18	7.06	-88
36	09/30/14 13:32:29	10.43	658.9	3.11	7.06	-89
37	09/30/14 13:32:49	10.44	658.5	3.09	7.06	-89
38	09/30/14 13:33:09	10.44	658.3	3.02	7.07	-90
39	09/30/14 13:33:29	10.43	657.9	3.01	7.07	-91
40	09/30/14 13:33:49	10.45	657.4	2.99	7.07	-92
41	09/30/14 13:34:09	10.46	657.0	2.92	7.07	-92
42	09/30/14 13:34:29	10.47	656.9	2.92	7.06	-93
43	09/30/14 13:34:49	10.48	656.5	2.89	7.06	-93
44	09/30/14 13:35:09	10.50	656.3	2.86	7.06	-94
45	09/30/14 13:35:29	10.51	656.0	2.84	7.07	-94
46	09/30/14 13:35:49	10.51	655.7	2.79	7.07	-95
47	09/30/14 13:36:09	10.51	655.8	2.78	7.08	-96
48	09/30/14 13:36:29	10.51	655.9	2.74	7.08	-97
49	09/30/14 13:36:49	10.53	655.7	2.72	7.08	-97
50	09/30/14 13:37:09	10.54	655.6	2.67	7.08	-98

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	09/30/14 13:37:29	10.56	655.4	2.64	7.08	-98
52	09/30/14 13:37:49	10.57	655.1	2.62	7.08	-98
53	09/30/14 13:38:09	10.57	654.8	2.61	7.09	-99
54	09/30/14 13:38:29	10.56	655.2	2.60	7.09	-100
55	09/30/14 13:38:49	10.57	655.2	2.55	7.09	-100
56	09/30/14 13:39:09	10.55	654.9	2.55	7.09	-101
57	09/30/14 13:39:29	10.55	654.9	2.51	7.10	-101
58	09/30/14 13:39:49	10.54	654.8	2.51	7.10	-102
59	09/30/14 13:40:09	10.54	654.7	2.51	7.10	-102
60	09/30/14 13:40:29	10.54	655.0	2.49	7.10	-102
61	09/30/14 13:40:49	10.54	654.6	2.48	7.10	-102
62	09/30/14 13:41:09	10.55	654.8	2.50	7.10	-102
63	09/30/14 13:41:29	10.54	654.7	2.46	7.10	-102
64	09/30/14 13:41:49	10.55	654.8	2.44	7.11	-103
65	09/30/14 13:42:09	10.57	654.3	2.42	7.11	-103
66	09/30/14 13:42:29	10.58	654.0	2.42	7.10	-103
67	09/30/14 13:42:49	10.58	654.5	2.38	7.10	-103

W-120I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-122s-0914
Volatile bottles preserved by: JB 9/15/14 OSC# 2725
Sampled by: SP

Date: 9-15-14
Time: 8:31 am
Weather: cool

Top of casing elevation: 642.48 ft Depth to well bottom: 34.3 ft

Depth to static water level: 19.93 ft Height of water column, H: 14.37 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 2.2 gallons

Volume of water evacuated: 4 1.2mL gallons

Depth to static water level after purging: 19.93
Did well recover? YES NO

Method of evacuation: Peristaltic Purge Flow Rate: 400 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:10		20.14	10.41	5.98	4.61	169	6.89	128.0
2	8:25		20.10	10.06	5.87	3.05	178	4.32	124.6
3	8:28		20.10	9.99	5.87	3.02	176	4.00	124.2
4	8:31		20.10	9.97	5.86	2.99	173	4.20	124.7
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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W-122s-0212.xls

W-122S.DAT

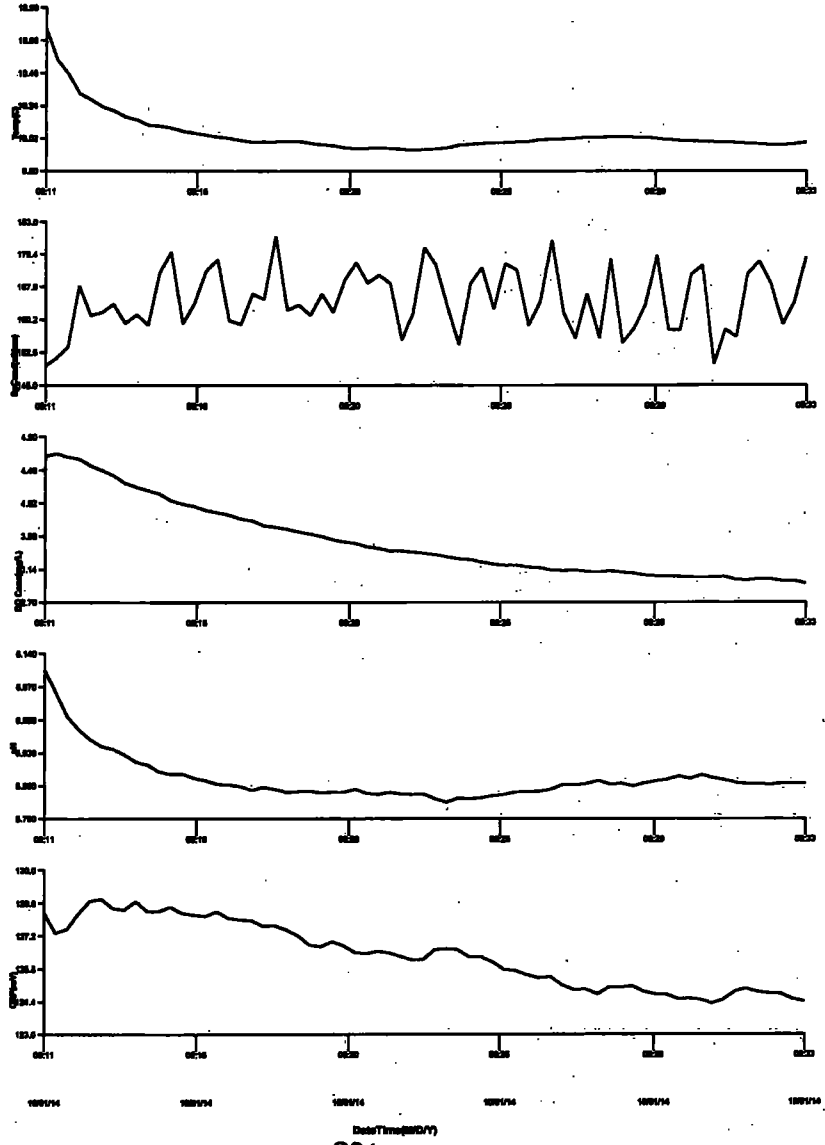
	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 08:11:53	10.76	149.1	4.65	6.11	128
2	10/01/14 08:12:13	10.55	151.0	4.69	6.06	127
3	10/01/14 08:12:33	10.45	153.6	4.64	6.01	127
4	10/01/14 08:12:53	10.32	168.0	4.61	5.98	128
5	10/01/14 08:13:13	10.28	161.0	4.53	5.96	129
6	10/01/14 08:13:33	10.23	161.8	4.46	5.94	129
7	10/01/14 08:13:53	10.20	163.7	4.40	5.94	128
8	10/01/14 08:14:13	10.16	159.1	4.29	5.92	128
9	10/01/14 08:14:33	10.14	161.2	4.24	5.91	129
10	10/01/14 08:14:53	10.10	158.7	4.19	5.90	128
11	10/01/14 08:15:13	10.10	171.0	4.15	5.89	128
12	10/01/14 08:15:33	10.08	175.9	4.05	5.88	128
13	10/01/14 08:15:53	10.06	159.0	4.01	5.88	128
14	10/01/14 08:16:13	10.05	163.9	3.98	5.87	128
15	10/01/14 08:16:33	10.03	171.4	3.92	5.87	128
16	10/01/14 08:16:53	10.02	174.2	3.89	5.86	128
17	10/01/14 08:17:13	10.01	159.8	3.86	5.86	128
18	10/01/14 08:17:33	10.00	158.9	3.80	5.86	128
19	10/01/14 08:17:53	9.99	166.1	3.78	5.85	128
20	10/01/14 08:18:13	9.99	164.9	3.71	5.85	128
21	10/01/14 08:18:33	9.99	179.8	3.69	5.85	128
22	10/01/14 08:18:53	9.99	162.2	3.67	5.84	127
23	10/01/14 08:19:13	9.99	163.5	3.63	5.84	127
24	10/01/14 08:19:33	9.98	161.1	3.60	5.85	127
25	10/01/14 08:19:53	9.97	166.0	3.57	5.84	127

W-122S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/01/14 08:20:13	9.96	161.8	3.52	5.84	127
27	10/01/14 08:20:33	9.95	169.4	3.49	5.84	127
28	10/01/14 08:20:53	9.94	173.4	3.47	5.85	126
29	10/01/14 08:21:13	9.94	168.7	3.43	5.84	126
30	10/01/14 08:21:33	9.95	170.5	3.41	5.84	127
31	10/01/14 08:21:53	9.94	168.5	3.37	5.84	126
32	10/01/14 08:22:13	9.94	155.2	3.37	5.84	126
33	10/01/14 08:22:33	9.93	161.3	3.36	5.84	126
34	10/01/14 08:22:53	9.94	177.0	3.34	5.84	126
35	10/01/14 08:23:13	9.94	173.0	3.32	5.83	127
36	10/01/14 08:23:33	9.95	163.1	3.29	5.82	127
37	10/01/14 08:23:53	9.97	154.1	3.27	5.83	127
38	10/01/14 08:24:13	9.97	168.5	3.26	5.83	126
39	10/01/14 08:24:33	9.98	172.3	3.22	5.83	126
40	10/01/14 08:24:53	9.98	162.6	3.20	5.84	126
41	10/01/14 08:25:13	9.98	173.2	3.18	5.84	126
42	10/01/14 08:25:33	9.99	171.8	3.18	5.84	126
43	10/01/14 08:25:53	9.99	158.6	3.16	5.84	126
44	10/01/14 08:26:13	10.00	164.2	3.15	5.84	125
45	10/01/14 08:26:33	10.01	178.8	3.12	5.85	125
46	10/01/14 08:26:53	10.01	161.7	3.10	5.86	125
47	10/01/14 08:27:13	10.01	155.5	3.12	5.86	125
48	10/01/14 08:27:33	10.02	166.1	3.10	5.86	125
49	10/01/14 08:27:53	10.02	155.6	3.09	5.87	125
50	10/01/14 08:28:13	10.02	174.3	3.10	5.86	125

W-122S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/01/14 08:28:33	10.02	154.5	3.09	5.86	125
52	10/01/14 08:28:53	10.02	157.9	3.07	5.86	125
53	10/01/14 08:29:13	10.02	163.4	3.04	5.86	125
54	10/01/14 08:29:33	10.01	175.2	3.03	5.87	125
55	10/01/14 08:29:53	10.00	157.5	3.03	5.87	125
56	10/01/14 08:30:13	10.00	157.5	3.02	5.88	124
57	10/01/14 08:30:33	9.99	170.6	3.02	5.87	124
58	10/01/14 08:30:53	9.99	172.8	3.02	5.88	124
59	10/01/14 08:31:13	9.99	149.5	3.02	5.87	124
60	10/01/14 08:31:33	9.99	157.5	3.02	5.87	124
61	10/01/14 08:31:53	9.98	155.9	2.98	5.86	125
62	10/01/14 08:32:13	9.98	170.8	2.98	5.86	125
63	10/01/14 08:32:33	9.97	173.8	2.99	5.86	125
64	10/01/14 08:32:53	9.97	168.4	2.99	5.86	125
65	10/01/14 08:33:13	9.97	158.8	2.97	5.86	125
66	10/01/14 08:33:33	9.97	164.1	2.97	5.86	124
67	10/01/14 08:33:53	9.98	174.8	2.93	5.86	124



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-122i-0914
Volatile bottles preserved by: SB 04/11/14 0845 2725
Sampled by: SB

Date: 10-1-14
Time: 7:10 am
Weather: cool

Top of casing elevation: 642.53 ft Depth to well bottom: 81.75 ft

Depth to static water level: 21.93 ft Height of water column, H: 59.82 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 9.16 gallons

Volume of water evacuated: 3 3 sc gallons

Depth to static water level after purging: 21.93
Did well recover? (YES) NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:45		22.00	9.93	6.71	7.18	299	3.70	85.3
2	9		22.02	9.92	6.99	.96	305	1.36	-90.1
3	9:03		22.00	9.91	7.01	.94	305	1.57	-93.5
4	9:06		22.00	9.91	7.01	.91	305	1.18	-94.7
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO) PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 227

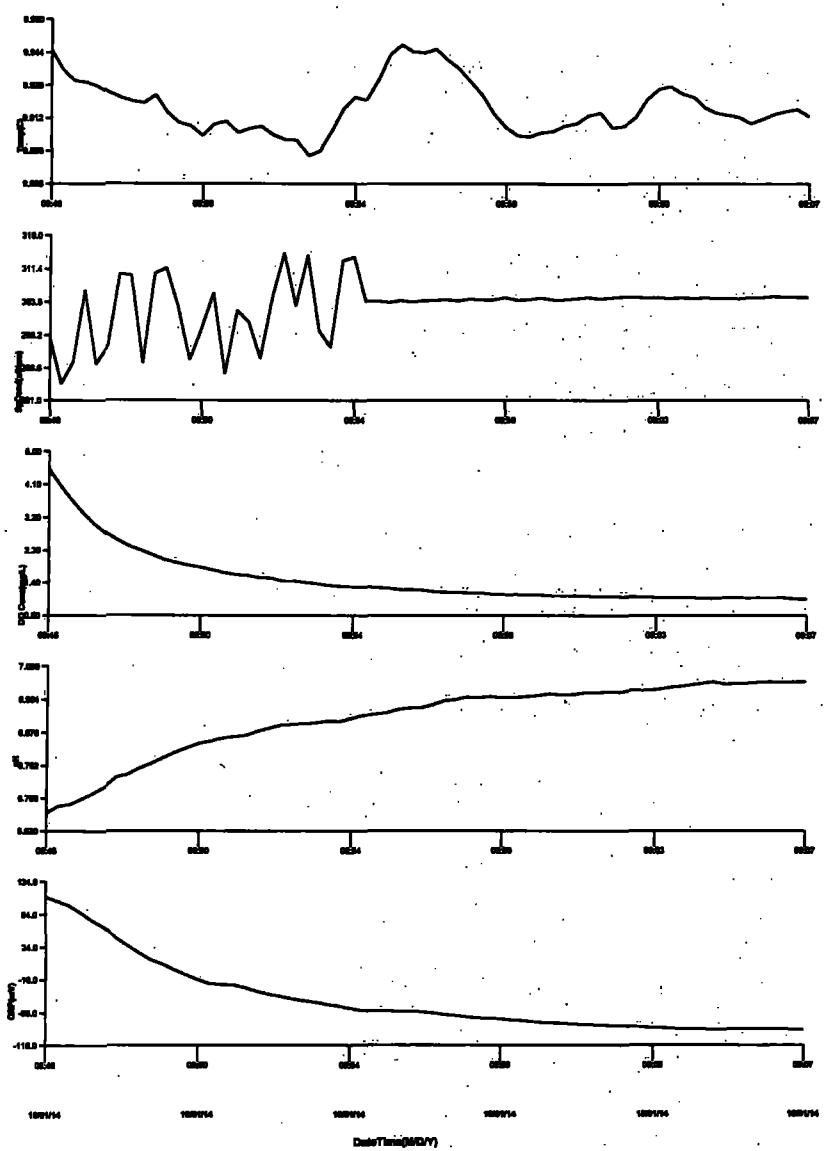
W-122I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 08:46:17	9.95	295.6	4.56	6.66	112
2	10/01/14 08:46:37	9.94	284.5	4.08	6.68	106
3	10/01/14 08:46:57	9.93	289.7	3.67	6.69	99
4	10/01/14 08:47:17	9.93	306.6	3.31	6.70	88
5	10/01/14 08:47:37	9.93	289.2	3.00	6.72	76
6	10/01/14 08:47:57	9.92	293.5	2.75	6.73	65
7	10/01/14 08:48:17	9.92	310.3	2.54	6.76	48
8	10/01/14 08:48:37	9.92	310.0	2.38	6.77	36
9	10/01/14 08:48:57	9.92	289.4	2.26	6.78	24
10	10/01/14 08:49:17	9.92	310.4	2.14	6.80	14
11	10/01/14 08:49:37	9.91	311.7	2.01	6.81	7
12	10/01/14 08:49:57	9.91	302.8	1.93	6.83	-2
13	10/01/14 08:50:17	9.91	290.2	1.85	6.84	-10
14	10/01/14 08:50:37	9.90	297.6	1.80	6.85	-17
15	10/01/14 08:50:57	9.91	305.9	1.72	6.85	-23
16	10/01/14 08:51:17	9.91	286.9	1.64	6.86	-24
17	10/01/14 08:51:37	9.90	301.8	1.59	6.87	-25
18	10/01/14 08:51:57	9.91	299.1	1.56	6.87	-29
19	10/01/14 08:52:17	9.91	290.5	1.50	6.88	-35
20	10/01/14 08:52:37	9.90	304.9	1.48	6.89	-39
21	10/01/14 08:52:57	9.90	315.2	1.41	6.90	-43
22	10/01/14 08:53:17	9.90	302.8	1.41	6.90	-46
23	10/01/14 08:53:37	9.89	314.7	1.36	6.90	-49
24	10/01/14 08:53:57	9.90	297.0	1.33	6.91	-51
25	10/01/14 08:54:17	9.90	293.2	1.28	6.91	-55

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/01/14 08:54:37	9.92	313.4	1.25	6.91	-57
27	10/01/14 08:54:57	9.92	314.3	1.24	6.92	-61
28	10/01/14 08:55:17	9.92	304.0	1.24	6.92	-64
29	10/01/14 08:55:37	9.93	303.9	1.22	6.93	-65
30	10/01/14 08:55:57	9.94	303.7	1.20	6.93	-65
31	10/01/14 08:56:17	9.95	304.0	1.17	6.94	-66
32	10/01/14 08:56:37	9.94	303.8	1.17	6.94	-66
33	10/01/14 08:56:57	9.94	304.0	1.14	6.94	-66
34	10/01/14 08:57:17	9.95	304.1	1.11	6.95	-68
35	10/01/14 08:57:37	9.94	304.3	1.09	6.96	-70
36	10/01/14 08:57:57	9.94	304.0	1.08	6.97	-72
37	10/01/14 08:58:17	9.93	304.5	1.07	6.97	-74
38	10/01/14 08:58:37	9.92	304.3	1.07	6.97	-76
39	10/01/14 08:58:57	9.91	304.3	1.05	6.97	-77
40	10/01/14 08:59:17	9.91	304.8	1.03	6.97	-78
41	10/01/14 08:59:37	9.90	304.3	1.03	6.97	-79
42	10/01/14 08:59:57	9.90	304.4	1.02	6.97	-81
43	10/01/14 09:00:17	9.90	304.7	1.01	6.98	-82
44	10/01/14 09:00:37	9.91	304.4	1.00	6.98	-84
45	10/01/14 09:00:57	9.91	304.4	1.00	6.98	-84
46	10/01/14 09:01:17	9.91	304.5	1.00	6.98	-85
47	10/01/14 09:01:37	9.91	304.9	0.99	6.98	-86
48	10/01/14 09:01:57	9.91	304.6	0.98	6.98	-87
49	10/01/14 09:02:17	9.91	304.7	0.98	6.99	-88
50	10/01/14 09:02:37	9.91	305.0	0.97	6.99	-88

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/01/14 09:02:57	9.91	304.9	0.97	6.99	-89
52	10/01/14 09:03:17	9.92	304.7	0.96	6.99	-90
53	10/01/14 09:03:37	9.93	304.8	0.95	6.99	-91
54	10/01/14 09:03:57	9.93	304.6	0.94	7.00	-92
55	10/01/14 09:04:17	9.92	304.7	0.95	7.00	-93
56	10/01/14 09:04:37	9.92	304.6	0.94	7.00	-93
57	10/01/14 09:04:57	9.92	304.8	0.93	7.01	-93
58	10/01/14 09:05:17	9.91	304.7	0.93	7.01	-94
59	10/01/14 09:05:37	9.91	304.7	0.94	7.01	-94
60	10/01/14 09:05:57	9.91	304.5	0.95	7.01	-93
61	10/01/14 09:06:17	9.91	304.9	0.94	7.01	-93
62	10/01/14 09:06:37	9.91	304.8	0.95	7.01	-93
63	10/01/14 09:06:57	9.91	305.1	0.95	7.01	-93
64	10/01/14 09:07:17	9.91	304.9	0.95	7.01	-93
65	10/01/14 09:07:37	9.92	305.0	0.92	7.01	-94
66	10/01/14 09:07:57	9.91	304.9	0.91	7.01	-94

W-122I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-121s-0914
Volatile bottles preserved by: JB 07/18/14 osct 2225
Sampled by: SF

Date: 10-1-14
Time: 10 am
Weather: cool

Top of casing elevation: 643.28 ft
Depth to well bottom: 34.3 ft
Depth to static water level: 23.30 ft
Height of water column, H: 11 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 1.68 gallons
Volume of water evacuated: 2.5 1.5vol gallons
Depth to static water level after purging: 23.30
Did well recover? (YES) NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:35		23.34	10.27	6.45	5.56	368	12.8	69.4
2	9:50		23.33	10.35	6.30	3.67	385	1.77	46.5
3	9:57		23.33	10.37	6.29	3.56	384	.90	46.0
4	9:56		23.33	16.24	6.25	3.47	386	.179	44.6
5									
6									
7									
8									

Sample color: Light
Sample turbidity: low
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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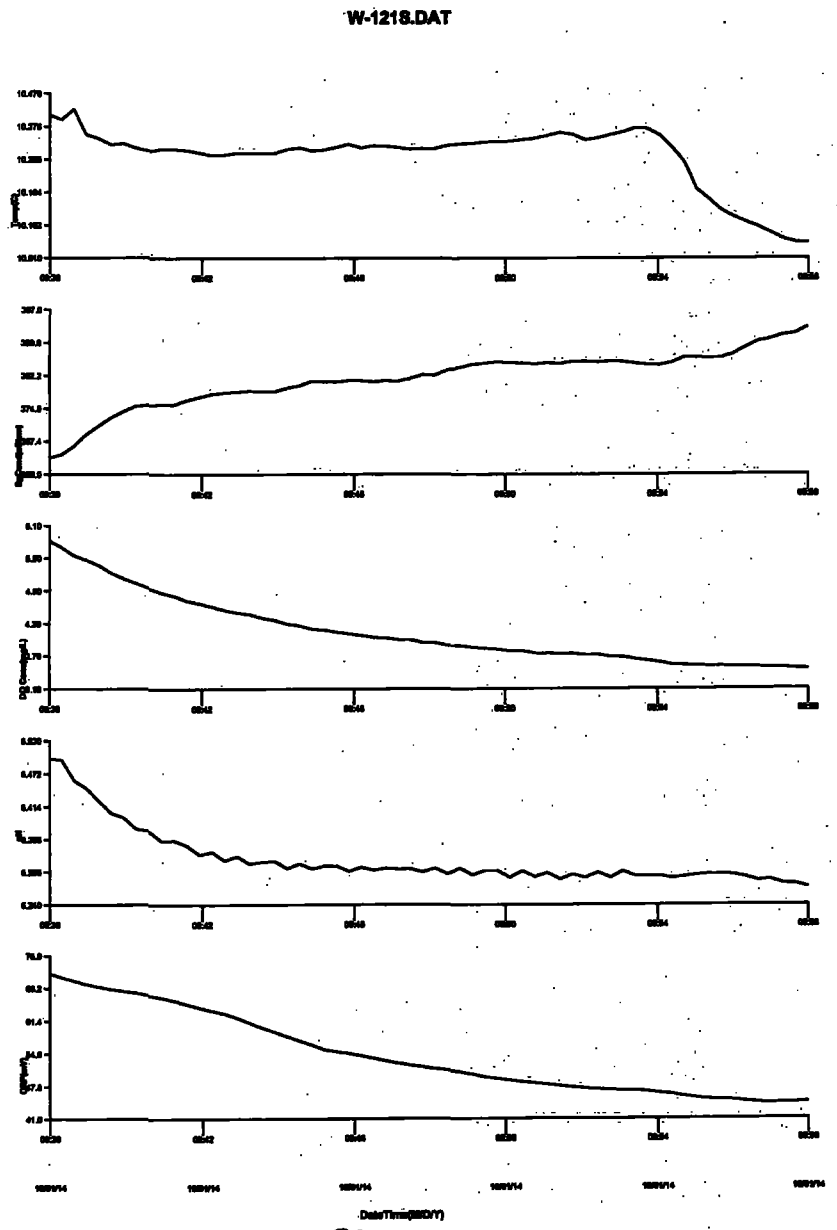
W-121s_0917 v1e

W-121S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 09:38:36	10.41	363.4	5.84	6.50	71
2	10/01/14 09:38:56	10.40	364.1	5.71	6.50	71
3	10/01/14 09:39:16	10.43	366.0	5.55	6.46	70
4	10/01/14 09:39:36	10.36	368.7	5.47	6.45	69
5	10/01/14 09:39:56	10.35	370.6	5.38	6.42	69
6	10/01/14 09:40:16	10.33	372.5	5.23	6.40	68
7	10/01/14 09:40:36	10.33	374.0	5.13	6.39	68
8	10/01/14 09:40:56	10.32	375.2	5.04	6.37	67
9	10/01/14 09:41:16	10.31	375.4	4.95	6.37	67
10	10/01/14 09:41:36	10.32	375.6	4.87	6.35	66
11	10/01/14 09:41:56	10.32	375.6	4.81	6.35	66
12	10/01/14 09:42:16	10.31	376.5	4.72	6.34	65
13	10/01/14 09:42:36	10.31	377.2	4.67	6.33	64
14	10/01/14 09:42:56	10.30	378.0	4.61	6.33	64
15	10/01/14 09:43:16	10.30	378.3	4.54	6.32	63
16	10/01/14 09:43:36	10.31	378.5	4.49	6.32	62
17	10/01/14 09:43:56	10.30	378.7	4.46	6.31	61
18	10/01/14 09:44:16	10.30	378.6	4.39	6.31	60
19	10/01/14 09:44:36	10.30	378.6	4.35	6.32	59
20	10/01/14 09:44:56	10.32	379.4	4.29	6.30	58
21	10/01/14 09:45:16	10.32	379.9	4.25	6.31	57
22	10/01/14 09:45:36	10.31	380.9	4.18	6.30	56
23	10/01/14 09:45:56	10.31	380.8	4.16	6.31	55
24	10/01/14 09:46:16	10.32	380.8	4.12	6.31	55
25	10/01/14 09:46:36	10.33	381.1	4.09	6.30	54
26	10/01/14 09:46:56	10.32	381.0	4.06	6.30	54
27	10/01/14 09:47:16	10.33	380.8	4.03	6.30	53
28	10/01/14 09:47:36	10.32	381.0	4.01	6.30	53
29	10/01/14 09:47:56	10.32	380.9	3.98	6.30	52
30	10/01/14 09:48:16	10.32	381.4	3.98	6.30	52
31	10/01/14 09:48:36	10.32	382.3	3.93	6.30	52

W-121S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
32	10/01/14 09:48:56	10.32	382.2	3.92	6.30	51
33	10/01/14 09:49:16	10.33	383.3	3.87	6.29	51
34	10/01/14 09:49:36	10.33	384.0	3.86	6.30	51
35	10/01/14 09:49:56	10.33	384.7	3.83	6.29	50
36	10/01/14 09:50:16	10.34	385.0	3.82	6.30	50
37	10/01/14 09:50:36	10.34	385.2	3.79	6.30	49
38	10/01/14 09:50:56	10.34	385.1	3.76	6.29	49
39	10/01/14 09:51:16	10.34	385.1	3.76	6.30	48
40	10/01/14 09:51:36	10.35	384.9	3.72	6.29	48
41	10/01/14 09:51:56	10.36	385.1	3.72	6.29	48
42	10/01/14 09:52:16	10.36	384.9	3.71	6.28	48
43	10/01/14 09:52:36	10.36	385.4	3.71	6.29	47
44	10/01/14 09:52:56	10.34	385.4	3.69	6.29	47
45	10/01/14 09:53:16	10.35	385.2	3.69	6.29	47
46	10/01/14 09:53:36	10.36	385.4	3.65	6.29	47
47	10/01/14 09:53:56	10.37	385.4	3.65	6.30	47
48	10/01/14 09:54:16	10.38	384.9	3.61	6.29	47
49	10/01/14 09:54:36	10.38	384.7	3.58	6.29	46
50	10/01/14 09:54:56	10.36	384.6	3.55	6.29	46
51	10/01/14 09:55:16	10.32	385.2	3.50	6.28	46
52	10/01/14 09:55:36	10.28	386.4	3.49	6.29	45
53	10/01/14 09:55:56	10.20	386.3	3.49	6.29	45
54	10/01/14 09:56:16	10.17	386.1	3.47	6.29	45
55	10/01/14 09:56:36	10.14	386.2	3.48	6.29	45
56	10/01/14 09:56:56	10.12	387.0	3.47	6.29	45
57	10/01/14 09:57:16	10.11	388.5	3.47	6.29	44
58	10/01/14 09:57:36	10.09	390.0	3.45	6.28	44
59	10/01/14 09:57:56	10.08	390.5	3.45	6.28	44
60	10/01/14 09:58:16	10.06	391.5	3.44	6.27	44
61	10/01/14 09:58:36	10.05	391.8	3.43	6.27	44
62	10/01/14 09:58:56	10.05	393.3	3.42	6.27	44



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-121i-0914
Volatile bottles preserved by: JB 09/15/14 0dcf 2225
Sampled by: SP

Date: 10-1-14
Time: 10:35 am
Weather: cool

Top of casing elevation: 643.31 ft
Depth to well bottom: 91.9 ft

Depth to static water level: 25.31 ft
Height of water column, H: 66.59 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 10 gallons

Volume of water evacuated: 3 0.3 wc gallons

Depth to static water level after purging: 25.40
Did well recover? YES NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:10		25.50	9.95	6.97	4.54	539	9.33	40.7
2	10:25		25.50	9.92	7.00	1.20	380	1.20	-64.5
3	10:28		25.50	9.97	7.02	1.09	374	1.16	61.9
4	10:31		25.50	9.96	7.04	1.06	371	1.06	60.9
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: Clear
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

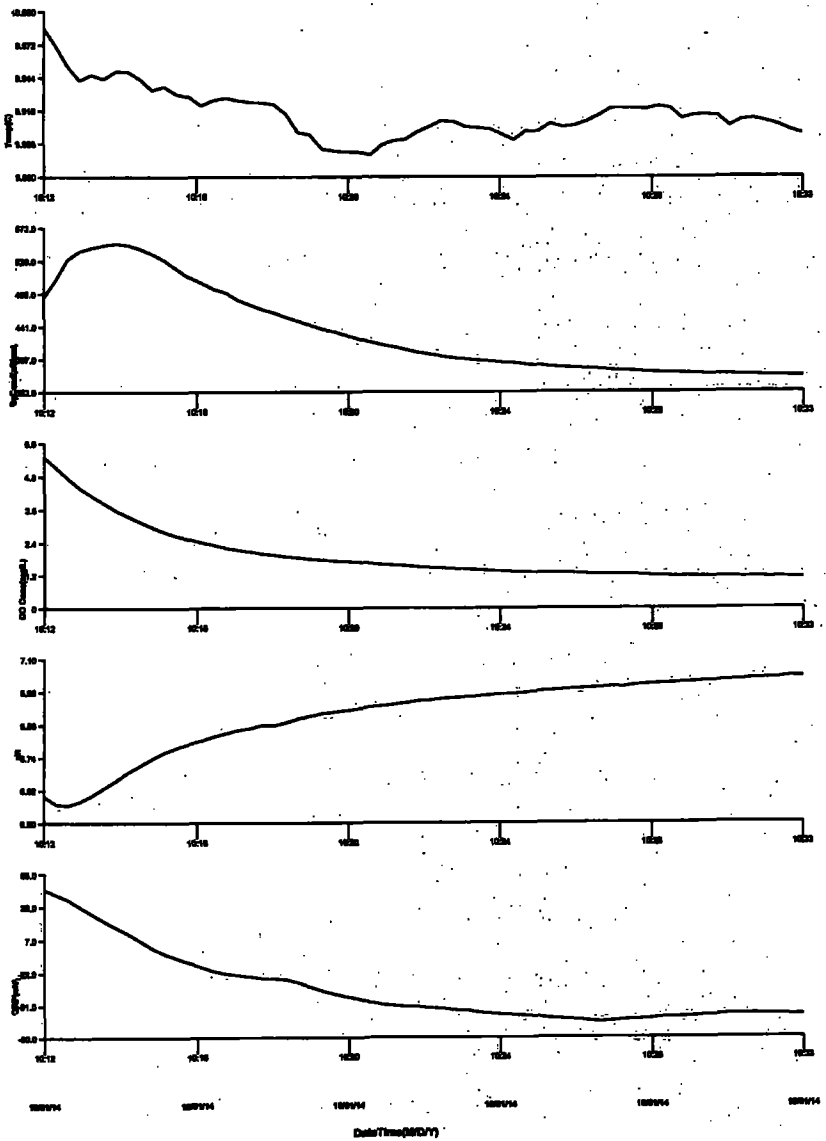
W-121I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 10:12:11	9.99	480.1	5.55	6.59	52
2	10/01/14 10:12:31	9.97	504.5	5.16	6.56	48
3	10/01/14 10:12:51	9.95	532.6	4.76	6.56	43
4	10/01/14 10:13:11	9.94	543.5	4.40	6.57	36
5	10/01/14 10:13:31	9.95	547.9	4.10	6.60	30
6	10/01/14 10:13:51	9.94	551.3	3.82	6.62	24
7	10/01/14 10:14:11	9.95	553.8	3.55	6.65	18
8	10/01/14 10:14:31	9.95	551.7	3.34	6.68	13
9	10/01/14 10:14:51	9.94	546.7	3.13	6.71	6
10	10/01/14 10:15:11	9.93	539.8	2.94	6.73	-0
11	10/01/14 10:15:31	9.94	531.4	2.77	6.76	-5
12	10/01/14 10:15:51	9.93	519.3	2.63	6.78	-9
13	10/01/14 10:16:12	9.93	508.1	2.50	6.79	-13
14	10/01/14 10:16:32	9.92	500.2	2.39	6.80	-18
15	10/01/14 10:16:52	9.92	491.6	2.28	6.82	-21
16	10/01/14 10:17:12	9.93	486.5	2.17	6.83	-23
17	10/01/14 10:17:32	9.92	476.4	2.10	6.84	-25
18	10/01/14 10:17:52	9.92	469.7	2.03	6.85	-26
19	10/01/14 10:18:12	9.92	463.8	1.96	6.86	-28
20	10/01/14 10:18:32	9.92	459.1	1.90	6.86	-28
21	10/01/14 10:18:52	9.91	452.8	1.84	6.87	-29
22	10/01/14 10:19:12	9.90	447.4	1.81	6.88	-31
23	10/01/14 10:19:32	9.89	442.1	1.76	6.89	-35
24	10/01/14 10:19:52	9.88	436.6	1.72	6.90	-39
25	10/01/14 10:20:12	9.88	433.3	1.69	6.91	-42
26	10/01/14 10:20:32	9.88	427.8	1.67	6.91	-44
27	10/01/14 10:20:52	9.88	423.1	1.63	6.92	-46
28	10/01/14 10:21:12	9.88	418.7	1.60	6.93	-49
29	10/01/14 10:21:32	9.89	414.9	1.55	6.93	-51
30	10/01/14 10:21:52	9.89	411.8	1.53	6.94	-52
31	10/01/14 10:22:12	9.89	408.2	1.51	6.94	-53
32	10/01/14 10:22:32	9.90	404.5	1.47	6.95	-53

W-121I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	10/01/14 10:22:52	9.90	401.9	1.43	6.95	-55
34	10/01/14 10:23:12	9.91	399.2	1.41	6.96	-55
35	10/01/14 10:23:32	9.91	396.6	1.39	6.96	-56
36	10/01/14 10:23:52	9.90	395.4	1.37	6.96	-57
37	10/01/14 10:24:12	9.90	393.6	1.35	6.96	-58
38	10/01/14 10:24:32	9.90	392.5	1.32	6.97	-60
39	10/01/14 10:24:52	9.89	391.1	1.31	6.97	-60
40	10/01/14 10:25:12	9.89	389.6	1.28	6.97	-61
41	10/01/14 10:25:32	9.90	387.8	1.27	6.98	-62
42	10/01/14 10:25:52	9.90	386.6	1.26	6.98	-63
43	10/01/14 10:26:12	9.90	385.0	1.24	6.99	-64
44	10/01/14 10:26:32	9.90	384.1	1.23	6.99	-65
45	10/01/14 10:26:52	9.90	383.0	1.21	6.99	-65
46	10/01/14 10:27:12	9.91	382.3	1.20	6.99	-66
47	10/01/14 10:27:32	9.91	381.2	1.19	7.00	-67
48	10/01/14 10:27:52	9.92	380.0	1.20	7.00	-67
49	10/01/14 10:28:12	9.92	379.3	1.19	7.00	-66
50	10/01/14 10:28:32	9.92	378.3	1.17	7.01	-65
51	10/01/14 10:28:52	9.92	377.4	1.14	7.01	-65
52	10/01/14 10:29:12	9.92	376.8	1.12	7.01	-63
53	10/01/14 10:29:32	9.92	376.1	1.11	7.01	-63
54	10/01/14 10:29:52	9.91	375.7	1.11	7.02	-63
55	10/01/14 10:30:12	9.91	375.3	1.11	7.02	-62
56	10/01/14 10:30:32	9.91	374.4	1.10	7.02	-62
57	10/01/14 10:30:52	9.91	373.9	1.08	7.02	-61
58	10/01/14 10:31:12	9.90	373.5	1.09	7.02	-61
59	10/01/14 10:31:32	9.91	373.1	1.07	7.03	-60
60	10/01/14 10:31:52	9.91	372.6	1.08	7.03	-60
61	10/01/14 10:32:12	9.91	372.3	1.07	7.03	-60
62	10/01/14 10:32:32	9.90	372.1	1.07	7.03	-61
63	10/01/14 10:32:52	9.90	371.8	1.06	7.04	-61
64	10/01/14 10:33:12	9.90	371.5	1.06	7.04	-61

W-121LDAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-107s-0914
Volatile bottles preserved by: SB 10/1/14 0907 2725
Sampled by: SF

Date: 10-1-14
Time: 11:40 am
Weather: cool

Top of casing elevation: 641.96 ft
Depth to well bottom: 35.85 ft
Depth to static water level: 30.57 ft
Height of water column, H: 5.33 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. .82 gallons
Volume of water evacuated: 2.75 3.4wc gallons
Depth to static water level after purging: 30.52
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:15		30.52	9.76	5.76	5.13	126	23.1	94.7
2	11:30		30.52	9.65	5.43	3.59	116	.86	109.4
3	11:35		30.52	9.65	5.42	3.49	117	.83	110.1
4	11:36		30.52	9.69	5.41	3.36	117	.84	111.0
5									
6									
7									
8									

Sample color: slightly dusky
Sample turbidity: low
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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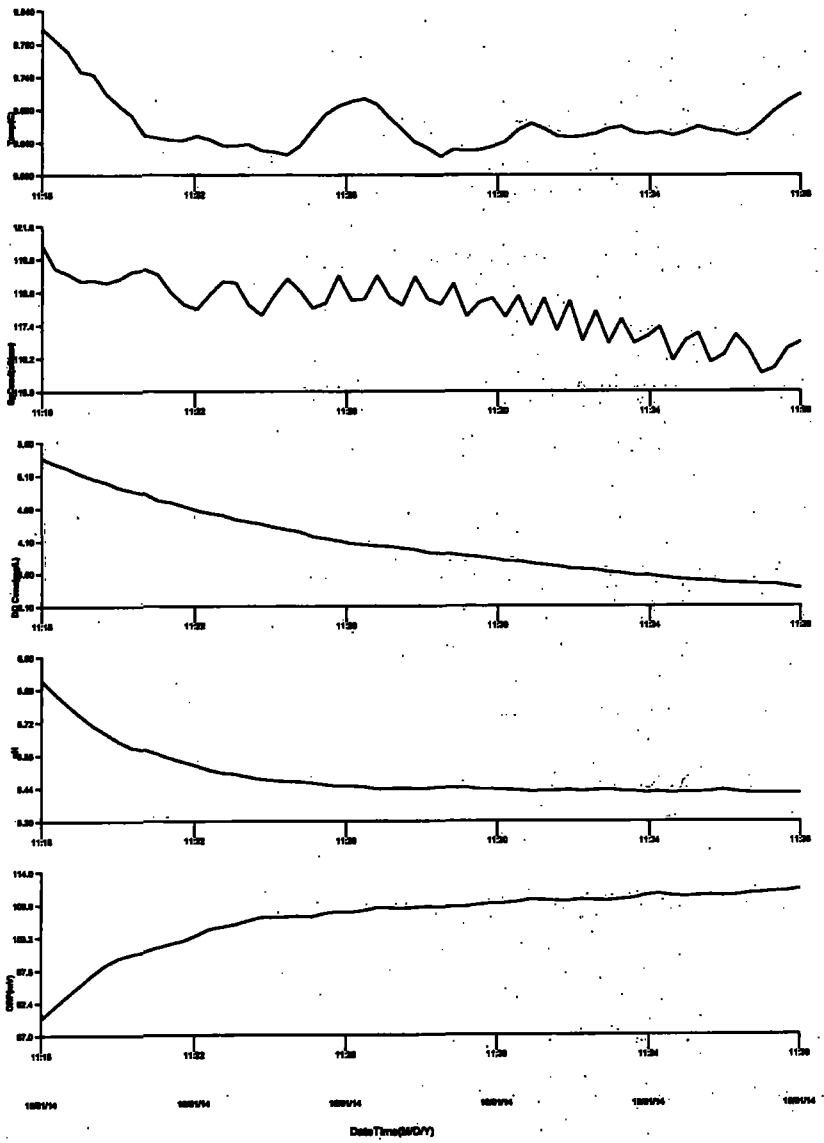
W-107S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 11:18:45	9.82	120.3	5.38	5.90	89
2	10/01/14 11:19:05	9.80	119.5	5.29	5.85	91
3	10/01/14 11:19:25	9.78	119.3	5.22	5.80	93
4	10/01/14 11:19:45	9.75	119.0	5.13	5.75	95
5	10/01/14 11:20:05	9.74	119.0	5.06	5.71	97
6	10/01/14 11:20:25	9.71	119.0	5.01	5.67	99
7	10/01/14 11:20:45	9.70	119.1	4.92	5.64	100
8	10/01/14 11:21:05	9.68	119.4	4.88	5.61	100
9	10/01/14 11:21:25	9.65	119.4	4.83	5.60	101
10	10/01/14 11:21:45	9.65	119.2	4.72	5.58	101
11	10/01/14 11:22:05	9.64	118.8	4.69	5.56	102
12	10/01/14 11:22:25	9.64	118.1	4.63	5.55	103
13	10/01/14 11:22:45	9.65	118.0	4.57	5.53	103
14	10/01/14 11:23:05	9.64	118.5	4.52	5.51	105
15	10/01/14 11:23:25	9.63	119.0	4.49	5.50	105
16	10/01/14 11:23:45	9.63	118.9	4.42	5.50	105
17	10/01/14 11:24:05	9.64	118.1	4.39	5.48	106
18	10/01/14 11:24:25	9.63	117.7	4.36	5.47	107
19	10/01/14 11:24:45	9.62	118.5	4.31	5.47	107
20	10/01/14 11:25:05	9.62	119.1	4.27	5.46	107
21	10/01/14 11:25:25	9.63	118.6	4.24	5.46	107
22	10/01/14 11:25:45	9.66	118.0	4.16	5.46	107
23	10/01/14 11:26:05	9.68	118.2	4.13	5.45	107
24	10/01/14 11:26:25	9.69	119.2	4.10	5.44	107
25	10/01/14 11:26:45	9.70	118.3	4.05	5.45	107
26	10/01/14 11:27:05	9.71	118.3	4.03	5.44	108
27	10/01/14 11:27:25	9.70	119.2	4.02	5.43	108
28	10/01/14 11:27:45	9.68	118.4	4.01	5.43	108
29	10/01/14 11:28:05	9.66	118.1	3.98	5.43	108
30	10/01/14 11:28:25	9.64	119.2	3.95	5.43	108

W-107S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	10/01/14 11:28:45	9.63	118.4	3.90	5.43	108
32	10/01/14 11:29:05	9.62	118.2	3.89	5.44	108
33	10/01/14 11:29:25	9.63	118.9	3.88	5.44	108
34	10/01/14 11:29:45	9.63	117.7	3.85	5.44	108
35	10/01/14 11:30:05	9.63	118.2	3.83	5.43	109
36	10/01/14 11:30:25	9.63	118.4	3.81	5.43	109
37	10/01/14 11:30:45	9.64	117.7	3.77	5.43	109
38	10/01/14 11:31:05	9.66	118.5	3.76	5.42	109
39	10/01/14 11:31:25	9.67	117.4	3.73	5.42	109
40	10/01/14 11:31:45	9.66	118.4	3.71	5.42	109
41	10/01/14 11:32:05	9.65	117.2	3.69	5.42	109
42	10/01/14 11:32:25	9.65	118.3	3.65	5.43	109
43	10/01/14 11:32:45	9.65	116.8	3.64	5.42	110
44	10/01/14 11:33:05	9.65	117.9	3.63	5.42	109
45	10/01/14 11:33:25	9.66	116.7	3.59	5.43	109
46	10/01/14 11:33:45	9.66	117.6	3.58	5.42	110
47	10/01/14 11:34:05	9.65	116.7	3.54	5.42	110
48	10/01/14 11:34:25	9.65	117.0	3.54	5.42	110
49	10/01/14 11:34:45	9.65	117.3	3.52	5.42	110
50	10/01/14 11:35:05	9.65	116.1	3.50	5.41	110
51	10/01/14 11:35:25	9.66	116.8	3.48	5.42	110
52	10/01/14 11:35:45	9.66	117.1	3.46	5.42	110
53	10/01/14 11:36:05	9.66	116.0	3.46	5.42	110
54	10/01/14 11:36:25	9.65	116.3	3.44	5.43	110
55	10/01/14 11:36:45	9.65	117.0	3.43	5.42	110
56	10/01/14 11:37:05	9.65	116.5	3.42	5.41	111
57	10/01/14 11:37:25	9.67	115.6	3.41	5.41	111
58	10/01/14 11:37:45	9.69	115.8	3.41	5.41	111
59	10/01/14 11:38:05	9.70	116.5	3.38	5.41	111
60	10/01/14 11:38:25	9.71	116.7	3.35	5.41	111

W-1078.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-107i-0914
Volatile bottles preserved by: SB 09/15/14 @SC 2725
Sampled by: SP

Date: 10-1-14
Time: 12:15 pm
Weather: cool

Top of casing elevation: 641.67 ft Depth to well bottom: 93.4 ft

Depth to static water level: 28.21 ft Height of water column, H: 65.19 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 10 gallons

Volume of water evacuated: 3 .30c gallons

Depth to static water level after purging: 28.30
Did well recover? (YES) NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:50		28.36	9.64	6.59	4.58	276	7.95	70.7
2	12:05		28.28	9.56	7.06	1.02	241	.41	-81.6
3	12:08		28.31	9.58	7.08	.97	239	.54	-86.4
4	12:11		28.31	9.57	7.10	.90	239	.50	-91.2
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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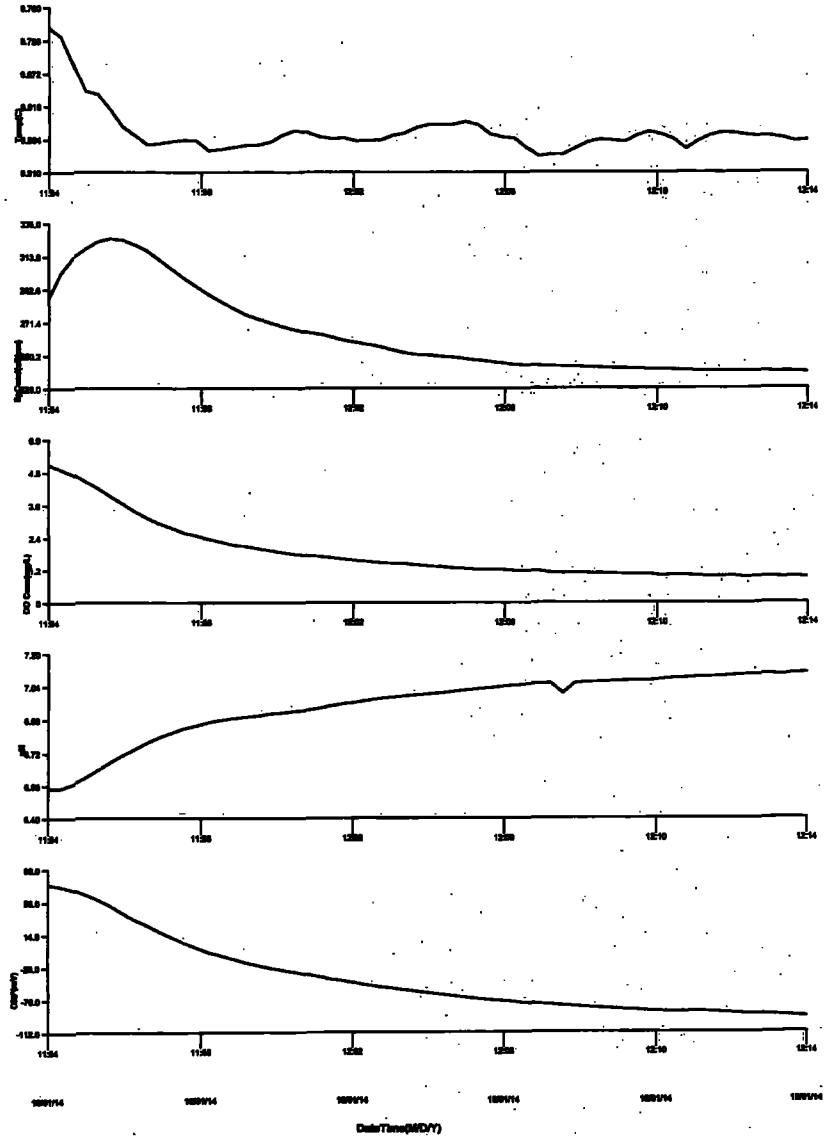
W-107I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 11:54:00	9.75	286.3	5.12	6.54	80
2	10/01/14 11:54:20	9.73	303.0	4.93	6.54	78
3	10/01/14 11:54:40	9.69	313.2	4.75	6.56	74
4	10/01/14 11:55:00	9.64	318.7	4.49	6.59	68
5	10/01/14 11:55:20	9.64	323.7	4.23	6.63	61
6	10/01/14 11:55:40	9.61	325.6	3.93	6.67	53
7	10/01/14 11:56:00	9.58	324.8	3.67	6.70	43
8	10/01/14 11:56:20	9.57	321.8	3.38	6.73	34
9	10/01/14 11:56:40	9.55	317.8	3.13	6.76	27
10	10/01/14 11:57:00	9.55	311.9	2.91	6.79	19
11	10/01/14 11:57:20	9.56	305.9	2.75	6.81	11
12	10/01/14 11:57:40	9.56	299.9	2.57	6.84	4
13	10/01/14 11:58:00	9.56	294.5	2.45	6.85	-2
14	10/01/14 11:58:20	9.54	289.2	2.33	6.87	-9
15	10/01/14 11:58:40	9.55	284.8	2.22	6.88	-13
16	10/01/14 11:59:00	9.55	280.1	2.11	6.88	-17
17	10/01/14 11:59:20	9.55	276.1	2.06	6.89	-22
18	10/01/14 11:59:40	9.55	273.3	1.97	6.90	-26
19	10/01/14 12:00:00	9.56	270.7	1.89	6.91	-29
20	10/01/14 12:00:20	9.57	268.3	1.82	6.91	-32
21	10/01/14 12:00:40	9.58	266.1	1.76	6.92	-35
22	10/01/14 12:01:00	9.57	264.3	1.69	6.92	-38
23	10/01/14 12:01:20	9.57	263.2	1.67	6.93	-40
24	10/01/14 12:01:40	9.56	261.3	1.61	6.95	-44
25	10/01/14 12:02:00	9.56	259.1	1.57	6.95	-46
26	10/01/14 12:02:20	9.56	257.7	1.51	6.96	-49
27	10/01/14 12:02:40	9.56	256.4	1.47	6.97	-52
28	10/01/14 12:03:00	9.56	254.9	1.42	6.98	-54
29	10/01/14 12:03:20	9.57	252.7	1.40	6.99	-56
30	10/01/14 12:03:40	9.57	251.0	1.39	6.99	-58
31	10/01/14 12:04:00	9.58	249.8	1.34	7.00	-60
32	10/01/14 12:04:20	9.59	249.3	1.29	7.00	-62

W-107I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	10/01/14 12:04:40	9.59	248.7	1.28	7.01	-64
34	10/01/14 12:05:00	9.59	248.0	1.22	7.02	-66
35	10/01/14 12:05:20	9.59	247.0	1.21	7.02	-68
36	10/01/14 12:05:40	9.59	246.1	1.17	7.03	-70
37	10/01/14 12:06:00	9.57	245.2	1.18	7.03	-71
38	10/01/14 12:06:20	9.57	244.1	1.16	7.04	-73
39	10/01/14 12:06:40	9.56	243.3	1.12	7.05	-74
40	10/01/14 12:07:00	9.55	242.9	1.11	7.05	-76
41	10/01/14 12:07:20	9.53	242.4	1.11	7.06	-77
42	10/01/14 12:07:40	9.54	242.2	1.05	7.06	-78
43	10/01/14 12:08:00	9.54	242.0	1.03	7.01	-79
44	10/01/14 12:08:20	9.55	241.6	1.05	7.06	-80
45	10/01/14 12:08:40	9.56	241.4	1.03	7.06	-81
46	10/01/14 12:09:00	9.56	241.0	1.02	7.06	-82
47	10/01/14 12:09:20	9.56	240.8	1.00	7.07	-83
48	10/01/14 12:09:40	9.56	240.7	1.00	7.07	-84
49	10/01/14 12:10:00	9.57	240.3	0.99	7.07	-85
50	10/01/14 12:10:20	9.57	240.1	0.98	7.07	-86
51	10/01/14 12:10:40	9.57	239.8	0.93	7.08	-87
52	10/01/14 12:11:00	9.56	239.7	0.96	7.08	-88
53	10/01/14 12:11:20	9.55	239.5	0.96	7.08	-87
54	10/01/14 12:11:40	9.56	239.2	0.92	7.09	-87
55	10/01/14 12:12:00	9.57	239.1	0.90	7.09	-87
56	10/01/14 12:12:20	9.57	239.0	0.91	7.09	-89
57	10/01/14 12:12:40	9.57	238.9	0.91	7.10	-89
58	10/01/14 12:13:00	9.57	238.8	0.87	7.10	-90
59	10/01/14 12:13:20	9.57	238.7	0.90	7.10	-91
60	10/01/14 12:13:40	9.57	238.5	0.90	7.10	-92
61	10/01/14 12:14:00	9.56	238.5	0.88	7.10	-92
62	10/01/14 12:14:20	9.56	238.3	0.89	7.11	-93
63	10/01/14 12:14:40	9.56	238.1	0.87	7.11	-94

W-1071.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-12s-0914
Volatile bottles preserved by: JB 09/15/14 0545 2725
Sampled by: AP

Date: 10-1-14
Time: 1:01 pm
Weather: cool

Top of casing elevation: 644.5 ft
Depth to well bottom: 38.7 ft
Depth to static water level: 28.32 ft
Height of water column, H: 10.38 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40
Volume of water column: H ft x .174 gal/ft. 1.8 gallons
Volume of water evacuated: 7.5 1 gal gallons
Depth to static water level after purging: 28.32
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:40		28.46	9.87	7.82	4.95	191	17.6	-5.6
2	12:55		28.33	9.76	7.62	4.77	206	1.45	23.5
3	1:18		28.33	9.78	7.62	4.75	206	1.16	24.5
4	1:01		28.33	9.76	7.62	4.74	208	1.08	24.5
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

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MW-12S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 12:39:47	9.84	186.0	5.25	7.84	-11
2	10/01/14 12:40:07	9.86	187.9	5.16	7.84	-11
3	10/01/14 12:40:27	9.88	188.4	5.09	7.83	-9
4	10/01/14 12:40:47	9.88	189.4	5.01	7.83	-6
5	10/01/14 12:41:07	9.88	191.3	4.96	7.82	-6
6	10/01/14 12:41:27	9.87	190.9	4.89	7.82	-4
7	10/01/14 12:41:47	9.87	190.9	4.84	7.80	-2
8	10/01/14 12:42:07	9.89	191.7	4.78	7.80	-2
9	10/01/14 12:42:27	9.90	191.7	4.76	7.79	-1
10	10/01/14 12:42:47	9.90	191.4	4.74	7.78	0
11	10/01/14 12:43:07	9.89	192.3	4.70	7.76	2
12	10/01/14 12:43:27	9.89	193.4	4.67	7.75	3
13	10/01/14 12:43:47	9.87	193.8	4.70	7.74	4
14	10/01/14 12:44:07	9.85	194.2	4.69	7.73	6
15	10/01/14 12:44:28	9.83	194.0	4.70	7.72	7
16	10/01/14 12:44:48	9.83	195.1	4.66	7.72	8
17	10/01/14 12:45:08	9.84	195.0	4.65	7.71	9
18	10/01/14 12:45:28	9.85	195.0	4.63	7.71	9
19	10/01/14 12:45:48	9.85	195.2	4.62	7.71	10
20	10/01/14 12:46:08	9.86	195.4	4.64	7.70	10
21	10/01/14 12:46:28	9.85	196.6	4.63	7.70	11
22	10/01/14 12:46:48	9.83	197.3	4.61	7.70	12
23	10/01/14 12:47:08	9.82	197.3	4.63	7.70	13
24	10/01/14 12:47:28	9.80	197.4	4.64	7.70	13
25	10/01/14 12:47:48	9.79	197.6	4.66	7.69	13

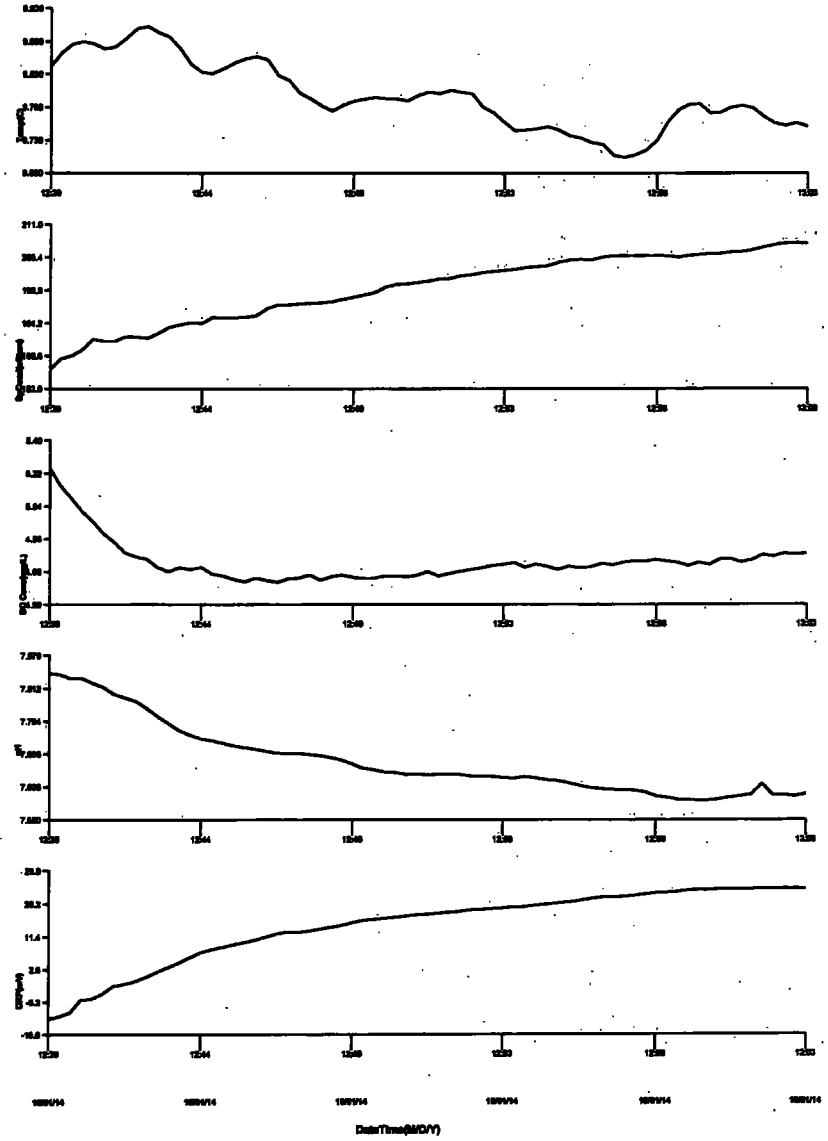
MW-12S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/01/14 12:48:08	9.78	197.6	4.63	7.69	14
27	10/01/14 12:48:28	9.77	197.8	4.65	7.69	14
28	10/01/14 12:48:48	9.78	198.2	4.65	7.68	15
29	10/01/14 12:49:08	9.79	198.6	4.64	7.68	15
30	10/01/14 12:49:28	9.79	199.0	4.64	7.67	16
31	10/01/14 12:49:48	9.79	199.4	4.64	7.67	16
32	10/01/14 12:50:08	9.79	200.4	4.65	7.66	17
33	10/01/14 12:50:28	9.79	200.8	4.65	7.66	17
34	10/01/14 12:50:48	9.79	201.0	4.64	7.66	17
35	10/01/14 12:51:08	9.80	201.1	4.65	7.66	17
36	10/01/14 12:51:28	9.80	201.4	4.67	7.66	18
37	10/01/14 12:51:48	9.80	201.7	4.65	7.66	18
38	10/01/14 12:52:08	9.81	201.8	4.66	7.66	18
39	10/01/14 12:52:28	9.80	202.3	4.67	7.66	18
40	10/01/14 12:52:48	9.80	202.4	4.68	7.65	19
41	10/01/14 12:53:08	9.78	202.8	4.69	7.66	19
42	10/01/14 12:53:28	9.77	203.0	4.71	7.65	19
43	10/01/14 12:53:48	9.76	203.2	4.71	7.65	19
44	10/01/14 12:54:08	9.74	203.4	4.72	7.65	19
45	10/01/14 12:54:28	9.74	203.7	4.70	7.65	20
46	10/01/14 12:54:48	9.75	203.8	4.71	7.65	20
47	10/01/14 12:55:08	9.75	204.0	4.70	7.65	20
48	10/01/14 12:55:28	9.74	204.6	4.68	7.65	21
49	10/01/14 12:55:48	9.74	205.0	4.70	7.64	21
50	10/01/14 12:56:08	9.73	205.1	4.69	7.64	21

MW-12S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/01/14 12:56:28	9.72	205.0	4.70	7.63	22
52	10/01/14 12:56:48	9.72	205.5	4.72	7.63	22
53	10/01/14 12:57:08	9.70	205.7	4.71	7.63	22
54	10/01/14 12:57:28	9.70	205.8	4.72	7.63	22
55	10/01/14 12:57:48	9.71	205.8	4.73	7.63	23
56	10/01/14 12:58:08	9.71	205.8	4.73	7.63	23
57	10/01/14 12:58:28	9.73	205.8	4.74	7.62	23
58	10/01/14 12:58:48	9.76	205.7	4.73	7.62	23
59	10/01/14 12:59:08	9.78	205.5	4.72	7.61	24
60	10/01/14 12:59:28	9.78	205.8	4.70	7.61	24
61	10/01/14 12:59:48	9.78	205.9	4.72	7.61	24
62	10/01/14 13:00:08	9.77	206.1	4.71	7.61	24
63	10/01/14 13:00:28	9.77	206.2	4.74	7.61	24
64	10/01/14 13:00:48	9.78	206.4	4.74	7.62	24
65	10/01/14 13:01:08	9.78	206.5	4.73	7.62	24
66	10/01/14 13:01:28	9.78	206.7	4.74	7.62	24
67	10/01/14 13:01:48	9.77	207.2	4.77	7.64	25
68	10/01/14 13:02:08	9.76	207.6	4.76	7.62	25
69	10/01/14 13:02:28	9.75	207.9	4.77	7.62	25
70	10/01/14 13:02:48	9.76	208.0	4.77	7.62	25
71	10/01/14 13:03:08	9.75	207.9	4.77	7.62	25

MW-12S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-12d-0914
Volatile bottles preserved by: GB 09/15/14 0SCE 2725
Sampled by: SP

Date: 10-1-14
Time: 1:55pm
Weather: cool

Top of casing elevation: 644.22 ft Depth to well bottom: 120 ft

Depth to static water level: 10.97 ft Height of water column, H: 109.03 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40

Volume of water column: H ft x .174 gal/ft. 19 gallons

Volume of water evacuated: 3 .16wc gallons

Depth to static water level after purging: 10.97
Did well recover? (YES) NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:30		11.01	10.2	3.47	4.06	170	21.3	12.4
2	1:45		10.97	10.01	7.69	1.19	219	56.9	-86.4
3	1:48		10.97	10.06	7.68	1.11	220	52.7	-64.6
4	1:51		10.97	10.09	7.67	1.04	220	50.9	-77.5
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES (NO) PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 253

MW-12d-0212.xls

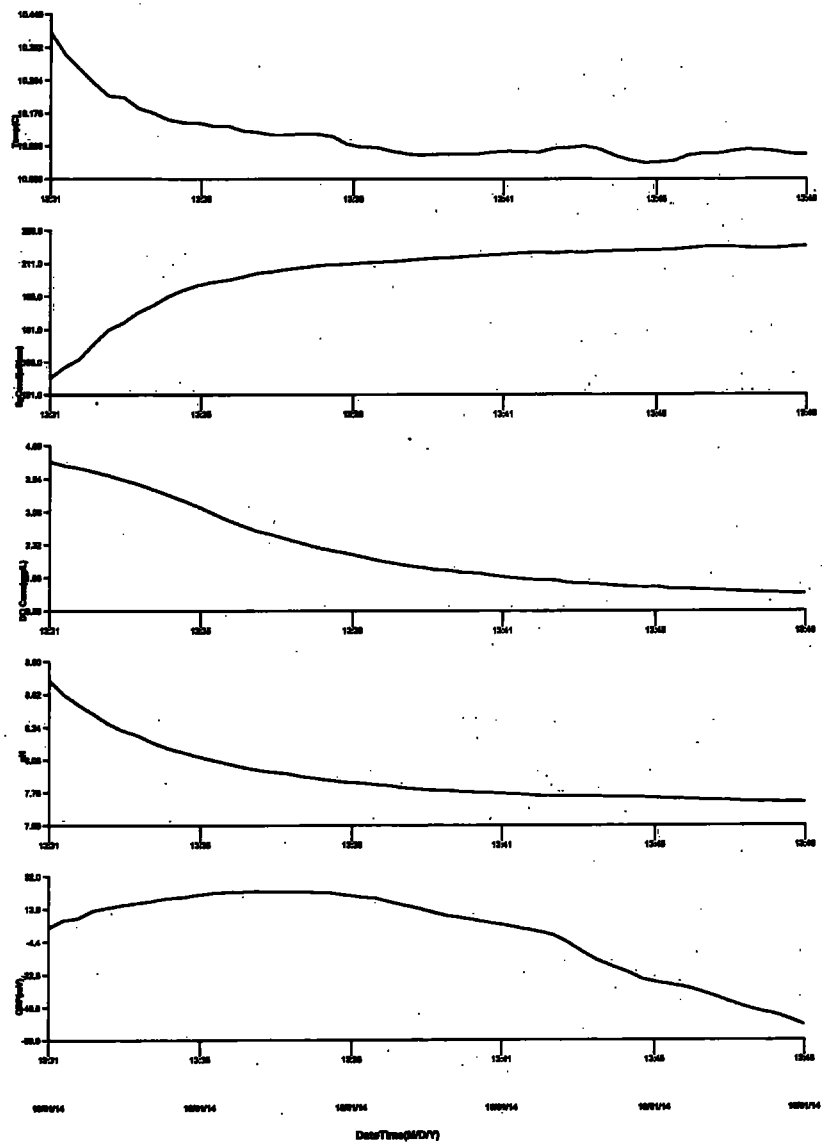
MW-12D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 13:31:46	10.40	157.7	4.26	8.75	3
2	10/01/14 13:32:06	10.34	163.1	4.16	8.62	8
3	10/01/14 13:32:26	10.29	166.9	4.11	8.54	9
4	10/01/14 13:32:46	10.26	174.0	4.03	8.46	13
5	10/01/14 13:33:06	10.22	180.6	3.94	8.37	15
6	10/01/14 13:33:26	10.22	183.8	3.83	8.31	16
7	10/01/14 13:33:46	10.19	188.7	3.73	8.27	17
8	10/01/14 13:34:06	10.18	191.8	3.61	8.21	19
9	10/01/14 13:34:26	10.16	195.8	3.49	8.16	20
10	10/01/14 13:34:46	10.15	198.9	3.35	8.12	21
11	10/01/14 13:35:06	10.15	201.2	3.21	8.08	22
12	10/01/14 13:35:26	10.14	202.7	3.05	8.05	23
13	10/01/14 13:35:46	10.14	203.5	2.89	8.02	24
14	10/01/14 13:36:06	10.13	205.1	2.75	7.99	24
15	10/01/14 13:36:26	10.12	206.8	2.62	7.97	24
16	10/01/14 13:36:46	10.12	207.5	2.54	7.95	24
17	10/01/14 13:37:06	10.12	208.6	2.44	7.94	24
18	10/01/14 13:37:26	10.12	209.5	2.34	7.91	24
19	10/01/14 13:37:46	10.12	210.3	2.24	7.89	24
20	10/01/14 13:38:06	10.11	210.7	2.17	7.87	23
21	10/01/14 13:38:26	10.09	211.1	2.11	7.86	22
22	10/01/14 13:38:46	10.08	211.5	2.03	7.85	21
23	10/01/14 13:39:06	10.08	211.9	1.94	7.84	20
24	10/01/14 13:39:26	10.07	212.3	1.88	7.83	18
25	10/01/14 13:39:46	10.06	212.7	1.82	7.81	16
26	10/01/14 13:40:06	10.06	213.4	1.78	7.80	15
27	10/01/14 13:40:26	10.06	214.0	1.72	7.79	12

MW-12D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
28	10/01/14 13:40:46	10.06	214.0	1.70	7.78	10
29	10/01/14 13:41:06	10.06	214.5	1.65	7.78	9
30	10/01/14 13:41:26	10.06	215.0	1.64	7.77	8
31	10/01/14 13:41:46	10.07	215.3	1.58	7.77	6
32	10/01/14 13:42:06	10.07	216.0	1.54	7.76	5
33	10/01/14 13:42:26	10.07	216.3	1.50	7.75	3
34	10/01/14 13:42:46	10.07	216.6	1.48	7.74	2
35	10/01/14 13:43:06	10.08	216.2	1.47	7.74	-1
36	10/01/14 13:43:26	10.08	216.8	1.42	7.74	-4
37	10/01/14 13:43:46	10.08	216.6	1.40	7.74	-10
38	10/01/14 13:44:06	10.08	217.1	1.37	7.73	-15
39	10/01/14 13:44:26	10.06	217.2	1.35	7.73	-18
40	10/01/14 13:44:46	10.05	217.4	1.33	7.73	-21
41	10/01/14 13:45:06	10.04	217.5	1.32	7.73	-25
42	10/01/14 13:45:26	10.04	217.8	1.32	7.72	-27
43	10/01/14 13:45:46	10.04	218.0	1.27	7.72	-29
44	10/01/14 13:46:06	10.06	218.4	1.27	7.71	-30
45	10/01/14 13:46:26	10.06	219.1	1.25	7.71	-33
46	10/01/14 13:46:46	10.06	219.3	1.25	7.70	-35
47	10/01/14 13:47:06	10.07	219.1	1.23	7.70	-38
48	10/01/14 13:47:26	10.08	218.8	1.22	7.69	-41
49	10/01/14 13:47:46	10.07	218.6	1.19	7.69	-43
50	10/01/14 13:48:06	10.07	218.6	1.18	7.69	-45
51	10/01/14 13:48:26	10.06	219.1	1.18	7.69	-48
52	10/01/14 13:48:46	10.06	219.5	1.17	7.68	-51

MW-12D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: OW-12-0914
Volatile bottles preserved by: CR 09/18/14 0SCS 2725
Sampled by: SR

Date: 10/1/14
Time: 2:30 pm
Weather: cool

Top of casing elevation: 644.98 ft
Depth to well bottom: 62.58 ft
Depth to static water level: 28.89 ft
Height of water column, H: 33.69 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 5.2 gallons
Volume of water evacuated: 3 .58 gallons
Depth to static water level after purging: 28.97
Did well recover? YES NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	2:05		29.00	10.05	8.94	2.73	266	174	-36.5
2	2:20		29.01	10.02	8.90	1.04	277	97.7	-20.8
3	2:23		29.00	10.01	8.89	1.04	277	96.0	-26.7
4	2:26		29.01	10.01	8.89	1.06	277	92.7	-25.7
5									
6									
7									
8									

Sample color: Cloudy
Sample turbidity: High
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 257

OW-12-0212.xls

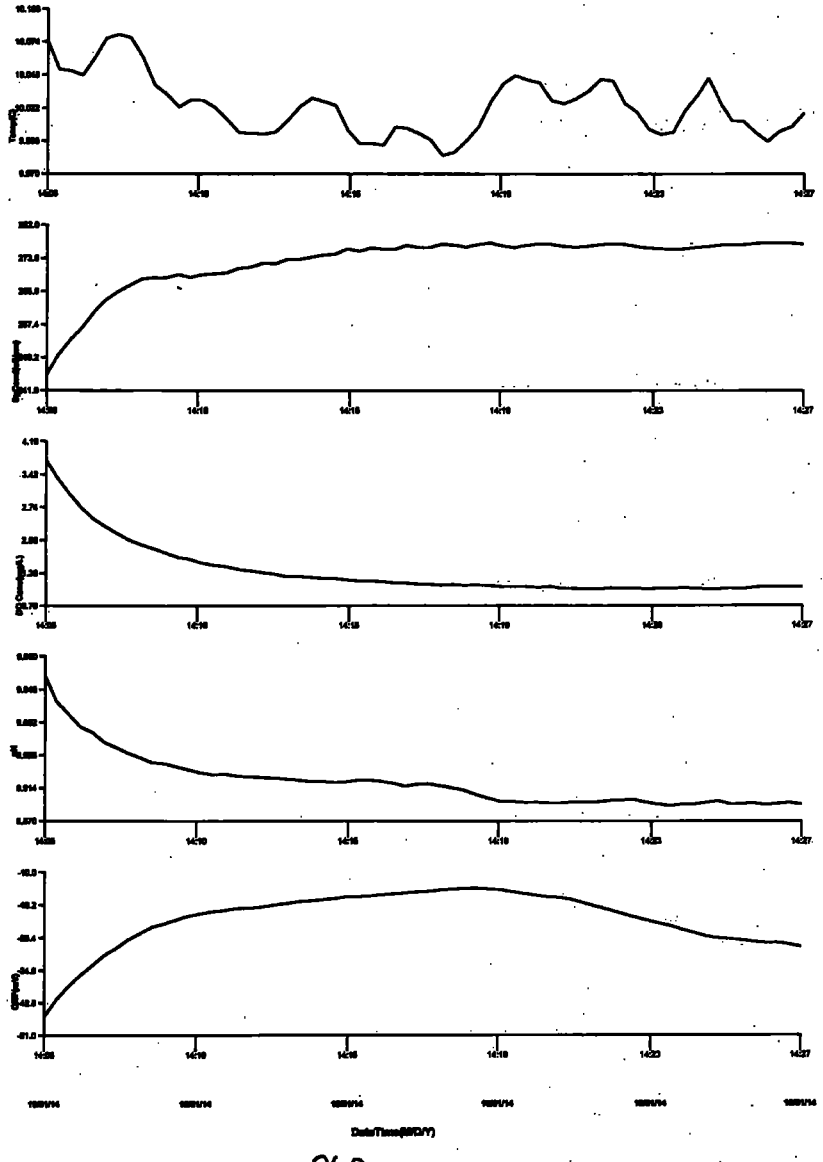
OW-12.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/01/14 14:06:38	10.08	244.5	3.74	9.07	-47
2	10/01/14 14:06:58	10.05	249.6	3.35	9.03	-42
3	10/01/14 14:07:18	10.05	253.3	3.02	9.01	-39
4	10/01/14 14:07:38	10.05	256.4	2.73	9.00	-36
5	10/01/14 14:07:58	10.06	260.3	2.49	8.99	-34
6	10/01/14 14:08:18	10.08	263.3	2.33	8.97	-31
7	10/01/14 14:08:38	10.08	265.5	2.19	8.97	-29
8	10/01/14 14:08:58	10.08	267.1	2.05	8.96	-27
9	10/01/14 14:09:18	10.06	268.7	1.95	8.95	-25
10	10/01/14 14:09:38	10.04	269.0	1.87	8.95	-24
11	10/01/14 14:09:58	10.03	268.9	1.78	8.95	-23
12	10/01/14 14:10:18	10.02	269.8	1.69	8.94	-22
13	10/01/14 14:10:38	10.03	269.1	1.65	8.94	-21
14	10/01/14 14:10:58	10.03	269.8	1.57	8.93	-20
15	10/01/14 14:11:18	10.02	269.9	1.52	8.93	-20
16	10/01/14 14:11:38	10.01	270.2	1.49	8.93	-19
17	10/01/14 14:11:58	10.00	271.4	1.44	8.93	-19
18	10/01/14 14:12:18	10.00	271.7	1.40	8.93	-19
19	10/01/14 14:12:38	10.00	272.7	1.37	8.93	-19
20	10/01/14 14:12:58	10.00	272.5	1.33	8.93	-18
21	10/01/14 14:13:18	10.01	273.6	1.29	8.92	-18
22	10/01/14 14:13:38	10.02	273.6	1.29	8.92	-17
23	10/01/14 14:13:58	10.03	274.2	1.27	8.92	-17
24	10/01/14 14:14:18	10.03	274.8	1.25	8.92	-17
25	10/01/14 14:14:38	10.02	275.0	1.24	8.92	-16
26	10/01/14 14:14:58	10.00	276.3	1.21	8.92	-16
27	10/01/14 14:15:18	9.99	275.8	1.19	8.92	-16
28	10/01/14 14:15:38	9.99	276.6	1.19	8.92	-16
29	10/01/14 14:15:58	9.99	276.3	1.17	8.92	-15
30	10/01/14 14:16:18	10.01	276.2	1.16	8.92	-15
31	10/01/14 14:16:38	10.01	277.1	1.15	8.91	-15
32	10/01/14 14:16:58	10.00	276.7	1.13	8.92	-15

OW-12.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	10/01/14 14:17:18	10.00	276.7	1.12	8.92	-15
34	10/01/14 14:17:38	9.98	277.6	1.10	8.92	-14
35	10/01/14 14:17:58	9.99	277.2	1.11	8.91	-14
36	10/01/14 14:18:18	10.00	276.7	1.10	8.91	-14
37	10/01/14 14:18:38	10.01	277.4	1.11	8.90	-14
38	10/01/14 14:18:58	10.03	277.8	1.09	8.90	-14
39	10/01/14 14:19:18	10.04	277.1	1.07	8.89	-14
40	10/01/14 14:19:38	10.05	276.6	1.07	8.89	-15
41	10/01/14 14:19:58	10.04	277.2	1.07	8.89	-15
42	10/01/14 14:20:18	10.04	277.6	1.05	8.89	-16
43	10/01/14 14:20:38	10.03	277.5	1.07	8.89	-16
44	10/01/14 14:20:58	10.03	277.0	1.04	8.89	-16
45	10/01/14 14:21:18	10.03	276.7	1.03	8.89	-17
46	10/01/14 14:21:38	10.04	277.0	1.03	8.89	-18
47	10/01/14 14:21:58	10.04	277.4	1.02	8.89	-18
48	10/01/14 14:22:18	10.04	277.6	1.04	8.90	-19
49	10/01/14 14:22:38	10.03	277.5	1.04	8.90	-20
50	10/01/14 14:22:58	10.02	276.9	1.04	8.90	-21
51	10/01/14 14:23:18	10.00	276.6	1.03	8.89	-22
52	10/01/14 14:23:38	10.00	276.3	1.03	8.89	-23
53	10/01/14 14:23:58	10.00	276.2	1.03	8.89	-23
54	10/01/14 14:24:18	10.02	276.3	1.04	8.89	-24
55	10/01/14 14:24:38	10.03	276.6	1.03	8.89	-25
56	10/01/14 14:24:58	10.05	276.9	1.02	8.89	-26
57	10/01/14 14:25:18	10.03	277.2	1.02	8.90	-26
58	10/01/14 14:25:38	10.01	277.3	1.04	8.89	-27
59	10/01/14 14:25:58	10.01	277.4	1.03	8.89	-27
60	10/01/14 14:26:18	10.00	277.6	1.05	8.89	-27
61	10/01/14 14:26:38	9.99	277.8	1.07	8.89	-28
62	10/01/14 14:26:58	10.00	277.7	1.07	8.89	-28
63	10/01/14 14:27:18	10.01	277.7	1.06	8.89	-28
64	10/01/14 14:27:38	10.02	277.5	1.06	8.89	-29

OW-12.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-106s-0914
Volatile bottles preserved by: JB 09/18/14 0842 2725
Sampled by: JB

Date: 10-2-14
Time: 8:40 am
Weather: cool

Top of casing elevation: 642.64 ft Depth to well bottom: 36.68 ft

Depth to static water level: 27.93 ft Height of water column, H: 8.75 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 1.3 gallons

Volume of water evacuated: 3 2.3 gallons

Depth to static water level after purging: 27.93
Did well recover? (YES) NO

Method of evacuation: Peristaltic Purge Flow Rate: 700 ~~400~~ mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:15		27.95	10.42	5.93	5.53	207	12.9	99.8
2	8:30		27.98	10.30	5.68	4.69	191	1.85	105.3
3	8:33		27.98	10.33	5.68	4.60	190	1.27	105.7
4	8:36		27.98	10.30	5.69	4.63	190	.97	104.7
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES (NO) PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 261

W-106s-0212.xls

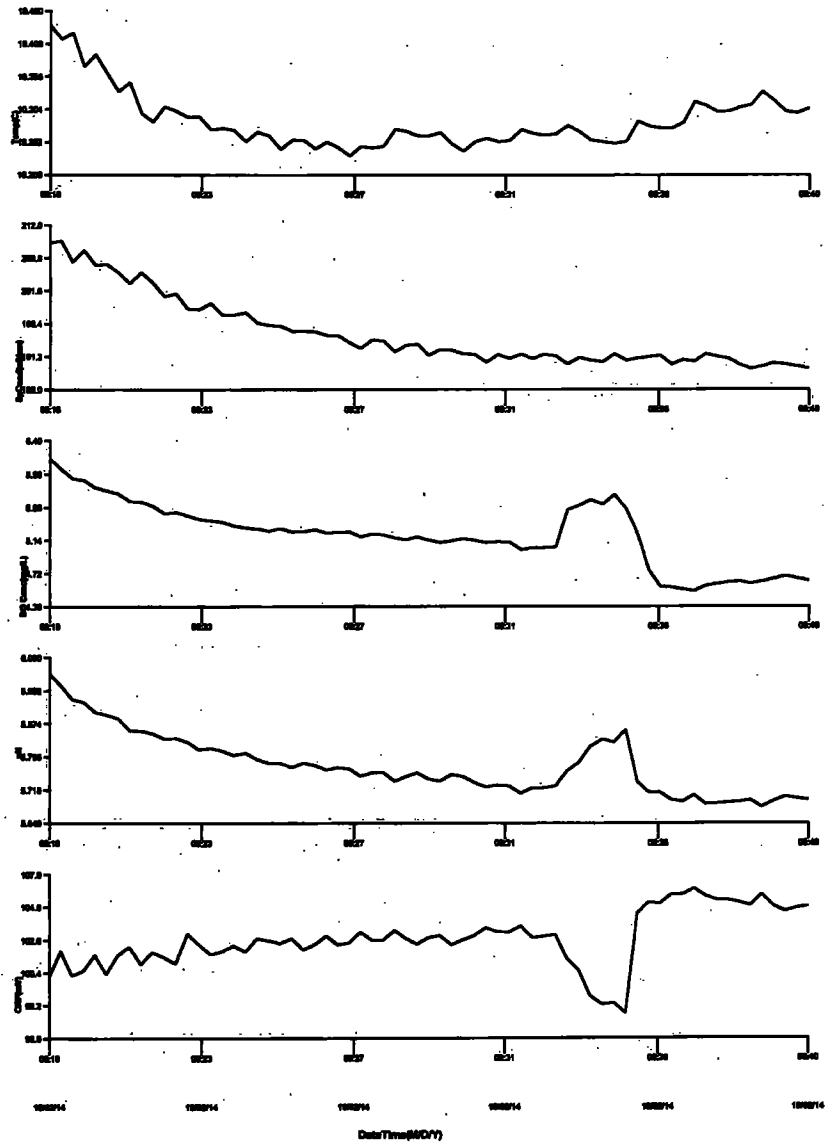
W-106S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/02/14 08:18:36	10.44	209.3	6.19	5.99	100
2	10/02/14 08:18:56	10.42	209.7	6.05	5.97	102
3	10/02/14 08:19:16	10.43	206.2	5.93	5.93	100
4	10/02/14 08:19:36	10.37	208.2	5.91	5.93	101
5	10/02/14 08:19:56	10.39	205.8	5.82	5.90	102
6	10/02/14 08:20:16	10.36	205.9	5.78	5.90	100
7	10/02/14 08:20:36	10.33	204.6	5.74	5.89	102
8	10/02/14 08:20:56	10.35	202.8	5.64	5.86	102
9	10/02/14 08:21:16	10.30	204.6	5.63	5.86	101
10	10/02/14 08:21:36	10.28	202.9	5.58	5.85	102
11	10/02/14 08:21:56	10.31	200.7	5.48	5.84	101
12	10/02/14 08:22:16	10.30	201.1	5.50	5.84	101
13	10/02/14 08:22:36	10.29	198.7	5.45	5.83	103
14	10/02/14 08:22:56	10.29	198.5	5.41	5.81	102
15	10/02/14 08:23:16	10.27	199.5	5.39	5.81	102
16	10/02/14 08:23:36	10.27	197.7	5.37	5.81	102
17	10/02/14 08:23:56	10.27	197.7	5.32	5.80	102
18	10/02/14 08:24:16	10.25	198.1	5.30	5.80	102
19	10/02/14 08:24:36	10.27	196.5	5.28	5.79	103
20	10/02/14 08:24:56	10.26	196.0	5.26	5.78	103
21	10/02/14 08:25:16	10.24	195.9	5.28	5.78	102
22	10/02/14 08:25:36	10.25	195.1	5.25	5.77	103
23	10/02/14 08:25:56	10.25	195.1	5.25	5.78	102
24	10/02/14 08:26:16	10.24	195.0	5.27	5.77	102
25	10/02/14 08:26:36	10.25	194.4	5.23	5.76	103

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/02/14 08:26:56	10.24	194.4	5.24	5.77	102
27	10/02/14 08:27:16	10.23	193.2	5.24	5.77	102
28	10/02/14 08:27:36	10.24	192.4	5.18	5.75	103
29	10/02/14 08:27:56	10.24	193.7	5.22	5.76	103
30	10/02/14 08:28:16	10.24	193.5	5.21	5.76	103
31	10/02/14 08:28:36	10.27	191.8	5.17	5.74	103
32	10/02/14 08:28:56	10.27	192.8	5.14	5.75	103
33	10/02/14 08:29:16	10.26	193.0	5.18	5.76	102
34	10/02/14 08:29:36	10.26	191.3	5.14	5.74	103
35	10/02/14 08:29:56	10.27	192.1	5.11	5.74	103
36	10/02/14 08:30:16	10.25	192.0	5.12	5.75	102
37	10/02/14 08:30:36	10.24	191.5	5.16	5.75	103
38	10/02/14 08:30:56	10.25	191.4	5.13	5.73	103
39	10/02/14 08:31:16	10.26	190.1	5.10	5.72	103
40	10/02/14 08:31:36	10.25	191.3	5.12	5.73	103
41	10/02/14 08:31:56	10.25	190.7	5.11	5.72	103
42	10/02/14 08:32:16	10.27	191.4	5.01	5.71	104
43	10/02/14 08:32:36	10.26	190.6	5.03	5.72	103
44	10/02/14 08:32:56	10.26	191.4	5.04	5.72	103
45	10/02/14 08:33:16	10.26	191.1	5.04	5.72	103
46	10/02/14 08:33:36	10.28	189.8	5.53	5.76	101
47	10/02/14 08:33:56	10.27	190.8	5.59	5.78	101
48	10/02/14 08:34:16	10.25	190.4	5.66	5.82	99
49	10/02/14 08:34:36	10.25	190.2	5.60	5.84	98
50	10/02/14 08:34:56	10.25	191.4	5.73	5.83	98

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/02/14 08:35:16	10.25	190.4	5.54	5.86	98
52	10/02/14 08:35:36	10.28	190.7	5.21	5.73	104
53	10/02/14 08:35:56	10.28	190.9	4.74	5.71	105
54	10/02/14 08:36:16	10.27	191.2	4.53	5.71	105
55	10/02/14 08:36:36	10.27	189.7	4.53	5.69	106
56	10/02/14 08:36:56	10.28	190.5	4.50	5.69	106
57	10/02/14 08:37:16	10.32	190.2	4.48	5.70	106
58	10/02/14 08:37:36	10.31	191.4	4.54	5.68	106
59	10/02/14 08:37:56	10.30	191.0	4.57	5.68	105
60	10/02/14 08:38:16	10.30	190.7	4.59	5.69	105
61	10/02/14 08:38:36	10.31	189.7	4.60	5.69	105
62	10/02/14 08:38:56	10.31	189.0	4.57	5.69	105
63	10/02/14 08:39:16	10.33	189.4	4.60	5.67	106
64	10/02/14 08:39:36	10.32	189.9	4.63	5.69	105
65	10/02/14 08:39:56	10.30	189.7	4.67	5.70	105
66	10/02/14 08:40:16	10.30	189.4	4.64	5.70	105
67	10/02/14 08:40:36	10.31	189.0	4.61	5.69	105

W-106S.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-106i-0914
Volatile bottles preserved by: HB 09/18/14 @ 2725
Sampled by: SP

Date: 10-2-14
Time: 9:20 am
Weather: cool

Top of casing elevation: 642.04 ft
Depth to well bottom: 90.21 ft
Depth to static water level: 25.72 ft
Height of water column, H: 64.49 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 9.9 gallons
Volume of water evacuated: 3 .30 wc gallons
Depth to static water level after purging: 26.06
Did well recover? YES NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:05		26.17	10.06	7.00	5.77	712	3.06	47.0
2	9:10		26.17	9.93	6.17	1.95	362	1.40	-33.5
3	9:13		26.12	9.95	6.16	1.89	363	1.46	-33.7
4	9:16		26.12	9.93	6.16	1.97	364	1.44	-36.4
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

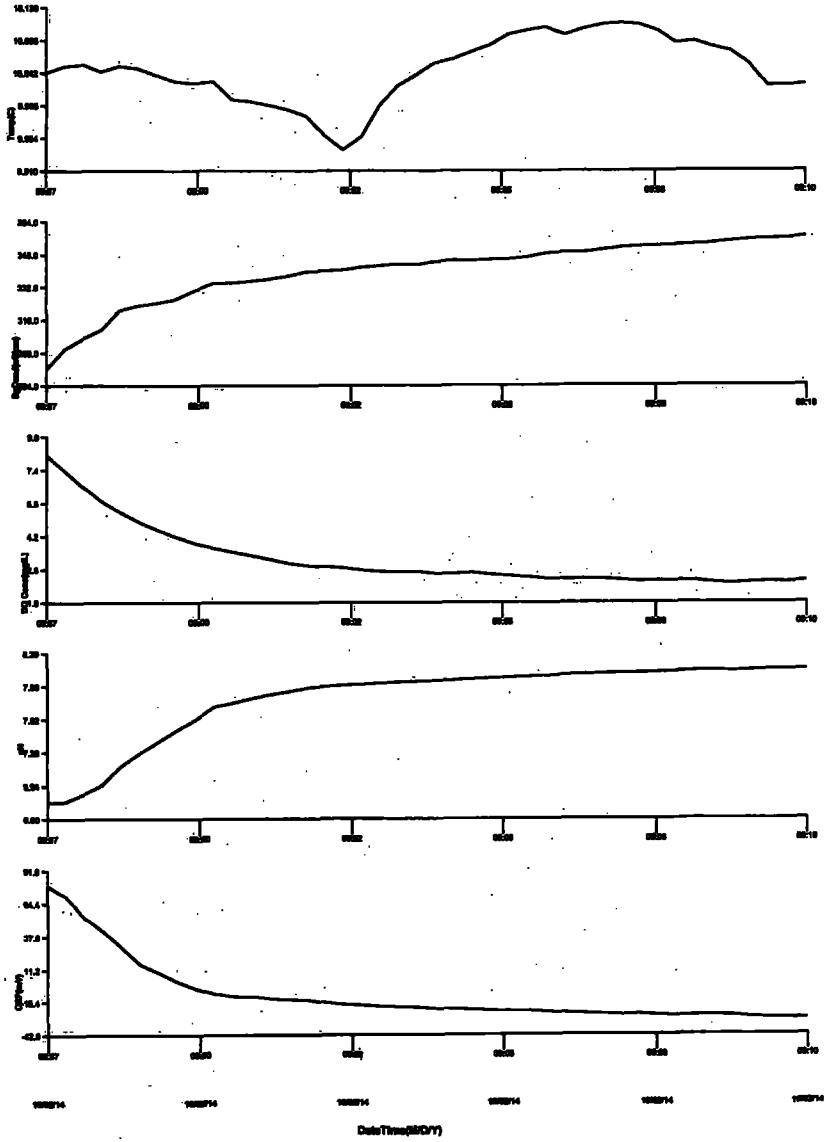
Signature: 266

W-106i-0212.xls

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/02/14 08:57:17	10.04	291.3	8.17	6.75	80
2	10/02/14 08:57:37	10.05	301.3	7.38	6.76	71
3	10/02/14 08:57:57	10.05	306.5	6.61	6.85	53
4	10/02/14 08:58:17	10.04	310.7	5.89	6.94	43
5	10/02/14 08:58:37	10.05	320.3	5.34	7.12	29
6	10/02/14 08:58:57	10.05	322.7	4.88	7.26	15
7	10/02/14 08:59:17	10.04	324.0	4.48	7.38	9
8	10/02/14 08:59:37	10.03	325.9	4.14	7.50	1
9	10/02/14 08:59:57	10.03	330.1	3.84	7.61	-5
10	10/02/14 09:00:17	10.03	333.8	3.58	7.75	-9
11	10/02/14 09:00:37	10.01	334.2	3.40	7.79	-11
12	10/02/14 09:00:57	10.00	334.9	3.23	7.84	-12
13	10/02/14 09:01:17	10.00	336.1	3.06	7.88	-13
14	10/02/14 09:01:37	9.99	337.4	2.87	7.91	-14
15	10/02/14 09:01:57	9.98	339.6	2.73	7.95	-15
16	10/02/14 09:02:17	9.96	340.0	2.67	7.96	-17
17	10/02/14 09:02:37	9.94	340.4	2.62	7.97	-18
18	10/02/14 09:02:57	9.95	342.0	2.51	7.99	-19
19	10/02/14 09:03:17	10.00	342.6	2.44	8.00	-20
20	10/02/14 09:03:37	10.02	343.4	2.41	8.01	-20
21	10/02/14 09:03:57	10.04	343.2	2.41	8.01	-21
22	10/02/14 09:04:17	10.05	344.6	2.33	8.02	-22
23	10/02/14 09:04:37	10.06	345.3	2.31	8.03	-22
24	10/02/14 09:04:57	10.07	345.3	2.37	8.04	-23
25	10/02/14 09:05:17	10.08	345.6	2.28	8.05	-24

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/02/14 09:05:37	10.09	346.0	2.21	8.06	-24
27	10/02/14 09:05:57	10.10	347.0	2.15	8.06	-24
28	10/02/14 09:06:17	10.10	348.8	2.08	8.07	-25
29	10/02/14 09:06:37	10.09	349.4	2.05	8.08	-26
30	10/02/14 09:06:57	10.10	349.4	2.07	8.09	-26
31	10/02/14 09:07:17	10.11	350.5	2.05	8.10	-27
32	10/02/14 09:07:37	10.11	351.7	2.00	8.10	-27
33	10/02/14 09:07:57	10.11	352.4	1.95	8.10	-27
34	10/02/14 09:08:17	10.10	352.6	1.98	8.11	-28
35	10/02/14 09:08:37	10.08	352.9	1.98	8.12	-28
36	10/02/14 09:08:57	10.08	353.2	1.96	8.12	-28
37	10/02/14 09:09:17	10.08	353.7	1.88	8.13	-28
38	10/02/14 09:09:37	10.07	354.7	1.82	8.12	-28
39	10/02/14 09:09:57	10.05	355.4	1.87	8.13	-29
40	10/02/14 09:10:17	10.02	355.9	1.92	8.13	-30
41	10/02/14 09:10:37	10.02	356.2	1.90	8.14	-31
42	10/02/14 09:10:57	10.03	356.9	1.95	8.13	-31

W-106I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-23d-0914
Volatile bottles preserved by: JB 09/08/14 ASC 2725
Sampled by: JP

Date: 10-2-14
Time: 10:10 am
Weather: cool / Haze

Top of casing elevation: 641.45 ft
Depth to well bottom: 150.3 ft
Depth to static water level: 12.25 ft
Height of water column, H: 138.05 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40
Volume of water column: H ft x .174 gal/ft. 24 gallons
Volume of water evacuated: 2.5 .10 uc gallons
Depth to static water level after purging: 12.25
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:45		12.30	10.48	7.27	6.14	113	24.6	26.0
2	10		12.30	10.64	7.72	1.84	220	-.40	-19.5
3	10:03		12.30	10.65	7.76	1.71	220	-.28	-27.0
4	10:06		12.30	10.67	7.69	1.42	229	-.17	-40.4
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES (NO)
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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MW-23d-0914 v1e

MW-23D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/02/14 09:47:08	10.27	181.9	8.11	8.39	34
2	10/02/14 09:47:28	10.31	181.2	7.48	8.38	32
3	10/02/14 09:47:48	10.35	192.9	6.78	8.35	30
4	10/02/14 09:48:08	10.42	179.9	6.43	8.32	29
5	10/02/14 09:48:28	10.47	192.2	6.23	8.30	27
6	10/02/14 09:48:48	10.53	214.6	6.11	8.26	26
7	10/02/14 09:49:08	10.54	148.6	5.93	8.21	24
8	10/02/14 09:49:28	10.55	204.1	5.64	8.17	23
9	10/02/14 09:49:48	10.57	202.9	4.95	8.13	22
10	10/02/14 09:50:08	10.59	153.8	4.50	8.10	20
11	10/02/14 09:50:28	10.61	144.2	4.42	8.05	19
12	10/02/14 09:50:48	10.62	195.3	4.42	7.99	18
13	10/02/14 09:51:08	10.62	213.8	4.36	7.94	18
14	10/02/14 09:51:28	10.63	185.6	4.25	7.90	17
15	10/02/14 09:51:48	10.62	175.7	3.88	7.86	16
16	10/02/14 09:52:08	10.63	179.6	3.71	7.84	15
17	10/02/14 09:52:28	10.63	239.1	3.47	7.82	14
18	10/02/14 09:52:48	10.63	154.9	3.42	7.81	13
19	10/02/14 09:53:08	10.62	255.3	3.36	7.80	12
20	10/02/14 09:53:28	10.62	246.3	3.24	7.79	12
21	10/02/14 09:53:48	10.63	216.6	3.19	7.79	11
22	10/02/14 09:54:08	10.63	188.6	3.12	7.79	11
23	10/02/14 09:54:28	10.61	260.9	3.01	7.79	11
24	10/02/14 09:54:48	10.62	157.4	2.95	7.80	10
25	10/02/14 09:55:08	10.60	156.8	2.90	7.80	9

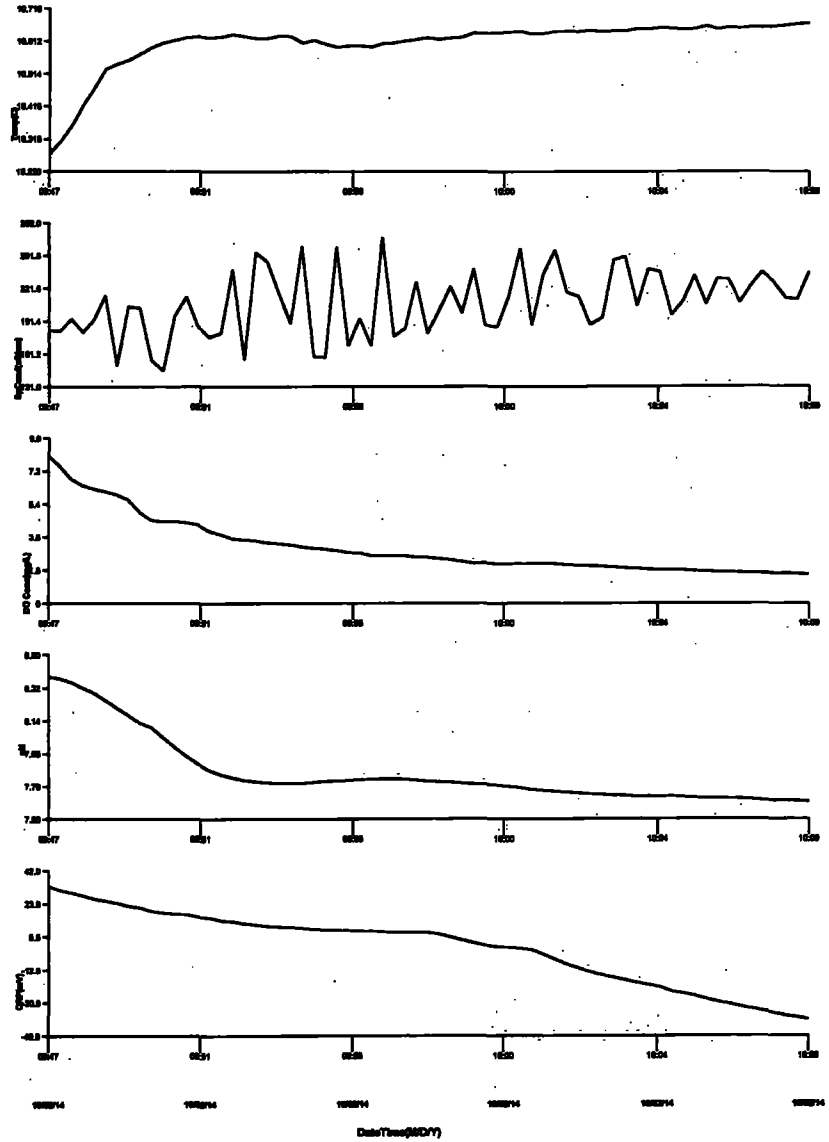
MW-23D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/02/14 09:55:28	10.60	260.5	2.82	7.80	9
27	10/02/14 09:55:48	10.60	167.6	2.72	7.81	9
28	10/02/14 09:56:08	10.60	193.1	2.69	7.81	9
29	10/02/14 09:56:28	10.60	167.7	2.53	7.81	9
30	10/02/14 09:56:48	10.60	269.2	2.51	7.81	8
31	10/02/14 09:57:08	10.61	176.6	2.52	7.81	8
32	10/02/14 09:57:28	10.61	183.6	2.51	7.81	8
33	10/02/14 09:57:48	10.62	227.3	2.45	7.81	8
34	10/02/14 09:58:08	10.62	179.2	2.43	7.80	8
35	10/02/14 09:58:28	10.62	200.1	2.36	7.80	7
36	10/02/14 09:58:48	10.62	222.8	2.30	7.79	5
37	10/02/14 09:59:08	10.62	198.2	2.20	7.79	4
38	10/02/14 09:59:28	10.64	239.4	2.10	7.78	2
39	10/02/14 09:59:48	10.64	186.7	2.14	7.78	1
40	10/02/14 10:00:08	10.64	185.0	2.07	7.78	0
41	10/02/14 10:00:28	10.64	213.5	2.09	7.77	-0
42	10/02/14 10:00:48	10.64	258.8	2.10	7.76	-1
43	10/02/14 10:01:08	10.63	187.1	2.10	7.75	-2
44	10/02/14 10:01:28	10.64	234.6	2.11	7.75	-4
45	10/02/14 10:01:48	10.64	257.3	2.08	7.74	-7
46	10/02/14 10:02:08	10.64	217.8	2.03	7.74	-10
47	10/02/14 10:02:28	10.64	213.5	1.98	7.73	-12
48	10/02/14 10:02:48	10.65	187.3	1.97	7.73	-14
49	10/02/14 10:03:08	10.64	194.0	1.93	7.73	-16
50	10/02/14 10:03:28	10.65	248.1	1.90	7.72	-17

MW-23D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/02/14 10:03:48	10.64	251.2	1.85	7.72	-19
52	10/02/14 10:04:08	10.65	205.1	1.82	7.72	-20
53	10/02/14 10:04:28	10.65	239.4	1.79	7.71	-21
54	10/02/14 10:04:48	10.65	236.8	1.75	7.71	-23
55	10/02/14 10:05:08	10.65	196.3	1.75	7.72	-25
56	10/02/14 10:05:28	10.65	209.7	1.73	7.71	-26
57	10/02/14 10:05:48	10.65	233.5	1.69	7.71	-28
58	10/02/14 10:06:08	10.66	206.7	1.68	7.71	-29
59	10/02/14 10:06:28	10.65	230.1	1.65	7.71	-31
60	10/02/14 10:06:48	10.66	230.0	1.64	7.70	-32
61	10/02/14 10:07:08	10.65	207.9	1.60	7.70	-34
62	10/02/14 10:07:28	10.66	223.9	1.60	7.70	-35
63	10/02/14 10:07:48	10.65	236.9	1.57	7.69	-36
64	10/02/14 10:08:08	10.66	226.7	1.55	7.69	-37
65	10/02/14 10:08:28	10.66	211.9	1.55	7.69	-39
66	10/02/14 10:08:48	10.67	211.1	1.53	7.69	-40
67	10/02/14 10:09:08	10.67	236.4	1.51	7.69	-41

MW-23D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-23s-0914
Volatile bottles preserved by: SR 09/18/14 exc 2725
Sampled by: SP

Date: 10-2-14
Time: 10:50 am
Weather: Clear

Top of casing elevation: 641.9 ft
Depth to well bottom: 43.72 ft

Depth to static water level: 31.12 ft
Height of water column, H: 12.6 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40

Volume of water column: H ft x .174 gal/ft. 2.2 gallons

Volume of water evacuated: 3.25 1.5 vol gallons

Depth to static water level after purging: 31.17
Did well recover? (YES) NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:25		31.23	9.84	7.64	5.32	203	8.51	33.1
2	10:40		31.26	9.79	7.41	1.71	208	.09	36.3
3	10:43		31.30	9.83	7.42	1.65	220	.16	36.3
4	10:46		31.30	9.85	7.42	1.61	221	.14	36.2
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 275

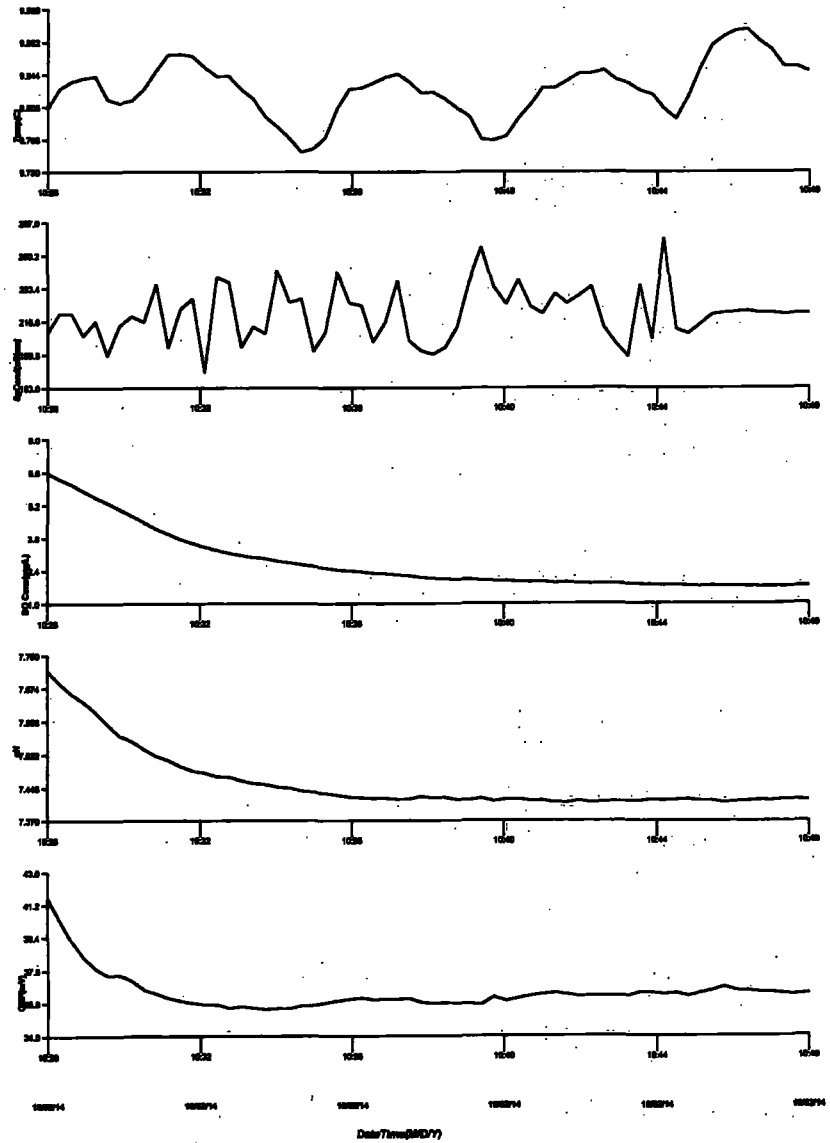
MW-23S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/02/14 10:28:11	9.80	210.4	6.60	7.72	42
2	10/02/14 10:28:31	9.83	220.3	6.32	7.69	40
3	10/02/14 10:28:51	9.84	220.2	6.10	7.66	39
4	10/02/14 10:29:11	9.84	208.8	5.82	7.64	38
5	10/02/14 10:29:31	9.84	216.3	5.54	7.62	38
6	10/02/14 10:29:51	9.81	198.7	5.30	7.59	37
7	10/02/14 10:30:11	9.81	214.1	5.04	7.57	37
8	10/02/14 10:30:31	9.81	218.7	4.74	7.55	37
9	10/02/14 10:30:51	9.83	215.8	4.46	7.53	36
10	10/02/14 10:31:11	9.85	235.6	4.17	7.52	36
11	10/02/14 10:31:31	9.87	202.7	3.97	7.51	36
12	10/02/14 10:31:51	9.87	222.4	3.72	7.49	36
13	10/02/14 10:32:11	9.87	227.9	3.55	7.48	36
14	10/02/14 10:32:31	9.85	190.1	3.39	7.48	36
15	10/02/14 10:32:51	9.84	239.2	3.24	7.47	36
16	10/02/14 10:33:11	9.84	236.5	3.11	7.47	35
17	10/02/14 10:33:31	9.83	202.8	3.02	7.46	36
18	10/02/14 10:33:51	9.81	213.5	2.92	7.45	35
19	10/02/14 10:34:11	9.79	209.9	2.86	7.45	35
20	10/02/14 10:34:31	9.78	242.6	2.76	7.45	35
21	10/02/14 10:34:51	9.77	226.2	2.68	7.44	35
22	10/02/14 10:35:11	9.75	227.7	2.60	7.44	36
23	10/02/14 10:35:31	9.76	200.9	2.53	7.43	36
24	10/02/14 10:35:51	9.77	210.6	2.45	7.43	36
25	10/02/14 10:36:11	9.80	242.0	2.38	7.43	36
26	10/02/14 10:36:31	9.83	225.8	2.34	7.42	36
27	10/02/14 10:36:51	9.83	224.4	2.30	7.42	36
28	10/02/14 10:37:11	9.83	205.7	2.24	7.42	36
29	10/02/14 10:37:31	9.84	215.7	2.21	7.42	36
30	10/02/14 10:37:51	9.85	237.5	2.16	7.42	36
31	10/02/14 10:38:11	9.84	206.4	2.13	7.42	36
32	10/02/14 10:38:31	9.82	201.1	2.05	7.42	36

MW-23S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	10/02/14 10:38:51	9.82	199.5	2.01	7.42	36
34	10/02/14 10:39:11	9.81	202.7	1.97	7.42	36
35	10/02/14 10:39:31	9.80	213.4	1.94	7.42	36
36	10/02/14 10:39:51	9.79	237.1	1.97	7.41	36
37	10/02/14 10:40:11	9.77	254.7	1.92	7.42	36
38	10/02/14 10:40:31	9.77	233.9	1.90	7.41	36
39	10/02/14 10:40:51	9.77	225.0	1.90	7.42	36
40	10/02/14 10:41:11	9.79	237.9	1.85	7.42	36
41	10/02/14 10:41:31	9.81	223.7	1.84	7.41	36
42	10/02/14 10:41:51	9.83	220.1	1.85	7.41	36
43	10/02/14 10:42:11	9.83	230.5	1.80	7.41	36
44	10/02/14 10:42:31	9.84	225.4	1.83	7.41	36
45	10/02/14 10:42:51	9.85	229.5	1.78	7.41	36
46	10/02/14 10:43:11	9.85	234.3	1.77	7.41	36
47	10/02/14 10:43:31	9.85	213.3	1.78	7.41	36
48	10/02/14 10:43:51	9.84	204.8	1.78	7.41	36
49	10/02/14 10:44:11	9.83	198.2	1.76	7.41	36
50	10/02/14 10:44:31	9.83	235.2	1.73	7.41	36
51	10/02/14 10:44:51	9.82	207.1	1.72	7.42	36
52	10/02/14 10:45:11	9.80	259.2	1.69	7.41	36
53	10/02/14 10:45:31	9.79	212.2	1.71	7.42	36
54	10/02/14 10:45:51	9.82	209.9	1.68	7.42	36
55	10/02/14 10:46:11	9.85	214.6	1.66	7.41	36
56	10/02/14 10:46:31	9.88	219.6	1.67	7.41	36
57	10/02/14 10:46:51	9.89	220.6	1.67	7.41	37
58	10/02/14 10:47:11	9.90	221.0	1.66	7.41	36
59	10/02/14 10:47:31	9.90	221.5	1.65	7.41	36
60	10/02/14 10:47:51	9.88	220.5	1.64	7.42	36
61	10/02/14 10:48:11	9.87	220.6	1.63	7.41	36
62	10/02/14 10:48:31	9.85	220.0	1.63	7.42	36
63	10/02/14 10:48:51	9.85	220.2	1.65	7.42	36
64	10/02/14 10:49:11	9.85	220.2	1.66	7.41	36

MW-23S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: OW-23-0914
Volatile bottles preserved by: JB 09/15/14 Lot# 2725
Sampled by: GP

Date: 10.2.14
Time: 11:35 am
Weather: Rain

Top of casing elevation: 640.91 ft
Depth to well bottom: 71.67 ft
Depth to static water level: 29.70 ft
Height of water column, H: 41.97 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 6.4 gallons
Volume of water evacuated: 3.5 .55 we gallons
Depth to static water level after purging: 29.70
Did well recover? YES NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:10		30.10	10.08	8.20	4.76	224	180	16.2
2	11:25		30.06	10.06	7.95	1.68	233	101.2	-108.5
3	11:28		30.07	10.02	7.94	1.82	234	100.9	-116.5
4	11:31		30.07	10.04	7.92	1.75	234	99.8	-121.6
5									
6									
7									
8									

Sample color: Dirty
Sample turbidity: High
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

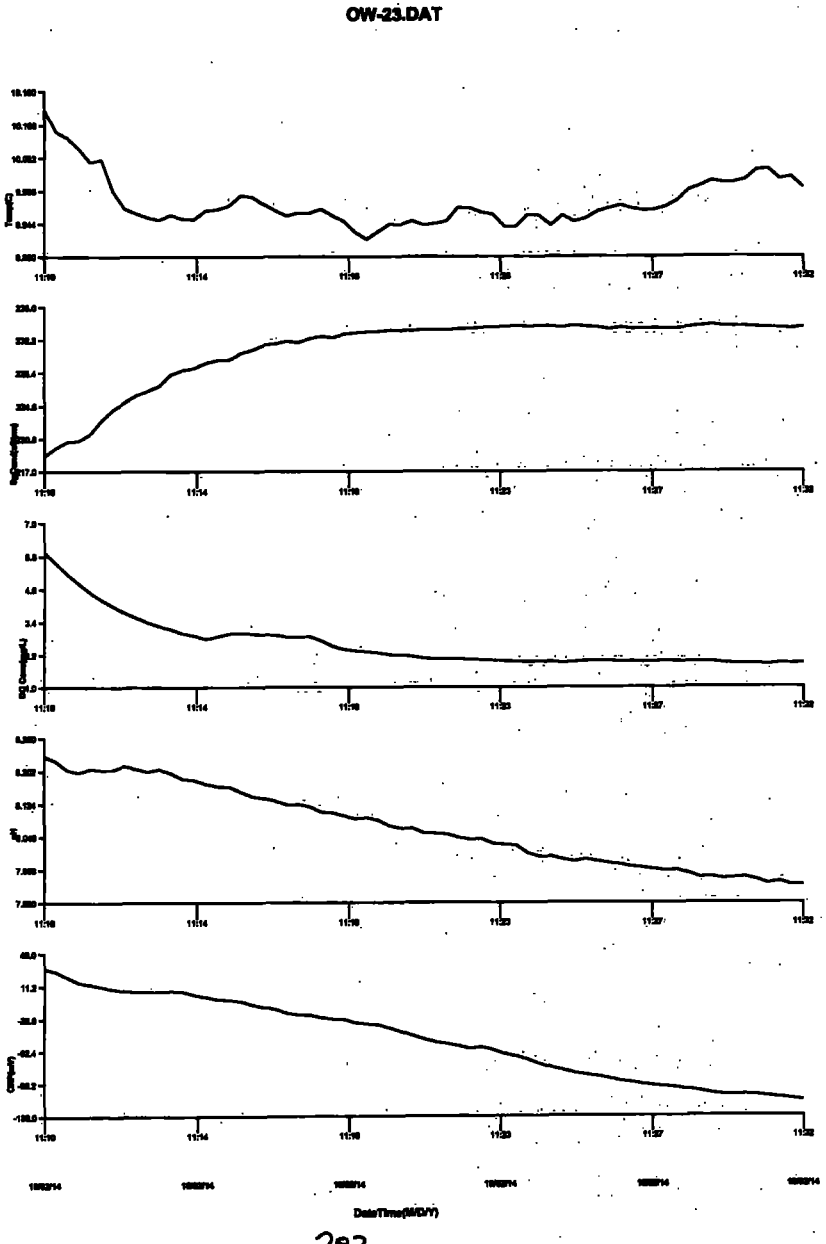
Signature: 279

OW-23.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/02/14 11:10:06	10.13	218.6	5.97	8.24	32
2	10/02/14 11:10:26	10.10	219.6	5.56	8.23	29
3	10/02/14 11:10:46	10.09	220.3	5.16	8.21	23
4	10/02/14 11:11:06	10.07	220.5	4.81	8.20	17
5	10/02/14 11:11:26	10.05	221.3	4.48	8.21	14
6	10/02/14 11:11:46	10.05	222.9	4.19	8.21	12
7	10/02/14 11:12:06	10.00	224.1	3.96	8.21	9
8	10/02/14 11:12:26	9.97	225.0	3.72	8.22	7
9	10/02/14 11:12:46	9.96	225.8	3.54	8.21	6
10	10/02/14 11:13:06	9.95	226.3	3.36	8.20	6
11	10/02/14 11:13:26	9.95	226.8	3.22	8.21	6
12	10/02/14 11:13:46	9.96	228.2	3.11	8.20	7
13	10/02/14 11:14:06	9.95	228.7	2.96	8.18	6
14	10/02/14 11:14:26	9.95	228.9	2.87	8.18	2
15	10/02/14 11:14:46	9.96	229.5	2.75	8.17	-0
16	10/02/14 11:15:06	9.97	229.9	2.85	8.17	-3
17	10/02/14 11:15:26	9.97	229.9	2.95	8.17	-4
18	10/02/14 11:15:46	9.99	230.7	2.99	8.15	-5
19	10/02/14 11:16:06	9.99	231.1	2.94	8.14	-9
20	10/02/14 11:16:26	9.97	231.6	2.91	8.14	-12
21	10/02/14 11:16:46	9.96	231.8	2.90	8.13	-14
22	10/02/14 11:17:06	9.96	232.1	2.82	8.12	-19
23	10/02/14 11:17:26	9.96	231.9	2.83	8.12	-20
24	10/02/14 11:17:46	9.96	232.4	2.84	8.12	-21
25	10/02/14 11:18:06	9.97	232.7	2.67	8.10	-24

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/02/14 11:18:26	9.96	232.5	2.47	8.10	-25
27	10/02/14 11:18:46	9.95	232.9	2.35	8.10	-26
28	10/02/14 11:19:06	9.93	233.1	2.30	8.09	-30
29	10/02/14 11:19:26	9.92	233.2	2.27	8.09	-31
30	10/02/14 11:19:46	9.93	233.2	2.22	8.09	-32
31	10/02/14 11:20:06	9.94	233.4	2.15	8.07	-36
32	10/02/14 11:20:26	9.94	233.3	2.14	8.07	-40
33	10/02/14 11:20:46	9.95	233.3	2.08	8.07	-45
34	10/02/14 11:21:06	9.94	233.5	2.02	8.05	-49
35	10/02/14 11:21:26	9.94	233.4	2.00	8.05	-52
36	10/02/14 11:21:46	9.95	233.4	2.00	8.05	-54
37	10/02/14 11:22:06	9.97	233.5	1.98	8.04	-57
38	10/02/14 11:22:26	9.97	233.6	1.97	8.04	-60
39	10/02/14 11:22:46	9.96	233.7	1.95	8.04	-58
40	10/02/14 11:23:06	9.96	233.7	1.93	8.03	-61
41	10/02/14 11:23:26	9.94	233.8	1.91	8.03	-66
42	10/02/14 11:23:46	9.94	233.9	1.90	8.02	-69
43	10/02/14 11:24:06	9.96	233.8	1.87	8.00	-73
44	10/02/14 11:24:26	9.96	233.9	1.89	8.00	-78
45	10/02/14 11:24:46	9.94	233.8	1.87	8.00	-82
46	10/02/14 11:25:06	9.96	233.7	1.84	7.99	-85
47	10/02/14 11:25:26	9.95	233.9	1.87	7.99	-88
48	10/02/14 11:25:46	9.95	233.8	1.91	7.99	-91
49	10/02/14 11:26:06	9.96	233.7	1.91	7.99	-92
50	10/02/14 11:26:26	9.97	233.5	1.90	7.98	-95

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/02/14 11:26:46	9.97	233.7	1.89	7.98	-98
52	10/02/14 11:27:06	9.97	233.5	1.90	7.97	-99
53	10/02/14 11:27:26	9.96	233.5	1.88	7.97	-101
54	10/02/14 11:27:46	9.96	233.6	1.89	7.97	-103
55	10/02/14 11:28:06	9.97	233.6	1.90	7.96	-104
56	10/02/14 11:28:26	9.98	233.6	1.89	7.96	-106
57	10/02/14 11:28:46	10.00	233.7	1.88	7.96	-108
58	10/02/14 11:29:06	10.01	233.9	1.88	7.95	-109
59	10/02/14 11:29:26	10.01	234.0	1.89	7.95	-112
60	10/02/14 11:29:46	10.01	233.8	1.83	7.94	-113
61	10/02/14 11:30:06	10.01	233.8	1.80	7.94	-114
62	10/02/14 11:30:26	10.02	233.8	1.82	7.95	-113
63	10/02/14 11:30:46	10.03	233.7	1.79	7.94	-114
64	10/02/14 11:31:06	10.03	233.6	1.77	7.93	-116
65	10/02/14 11:31:26	10.02	233.6	1.82	7.94	-117
66	10/02/14 11:31:46	10.02	233.5	1.80	7.93	-119
67	10/02/14 11:32:06	10.00	233.7	1.82	7.93	-120



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-103s-0914
Volatile bottles preserved by: JB 09/10/14 0825 4725
Sampled by: GP

Date: 10-2-14
Time: 12:55 pm
Weather: cool

Top of casing elevation: 646.97 ft Depth to well bottom: 31.99 ft

Depth to static water level: 10.59 ft Height of water column, H: 21.4 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40

Volume of water column: H ft x .174 gal/ft. 3.7 gallons

Volume of water evacuated: 3 .81 gallons

Depth to static water level after purging: 10.59
Did well recover? (YES) NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:30		10.61	10.84	7.08	3.64	353	112	-97.0
2	12:45		10.67	11.05	6.94	1.70	346	60.53	-105.1
3	12:48		10.60	11.07	6.95	1.55	346	3.59	-102.5
4	12:51		10.62	10.96	6.97	1.60	346	6.71	-106.5
5									
6									
7									
8									

Sample color: Dirty
Sample turbidity: 17.9 h
Sample odor: (YES) NO PID reading:
Other observations: silt Comments:

Additional comments on methodology, etc.:

Signature:

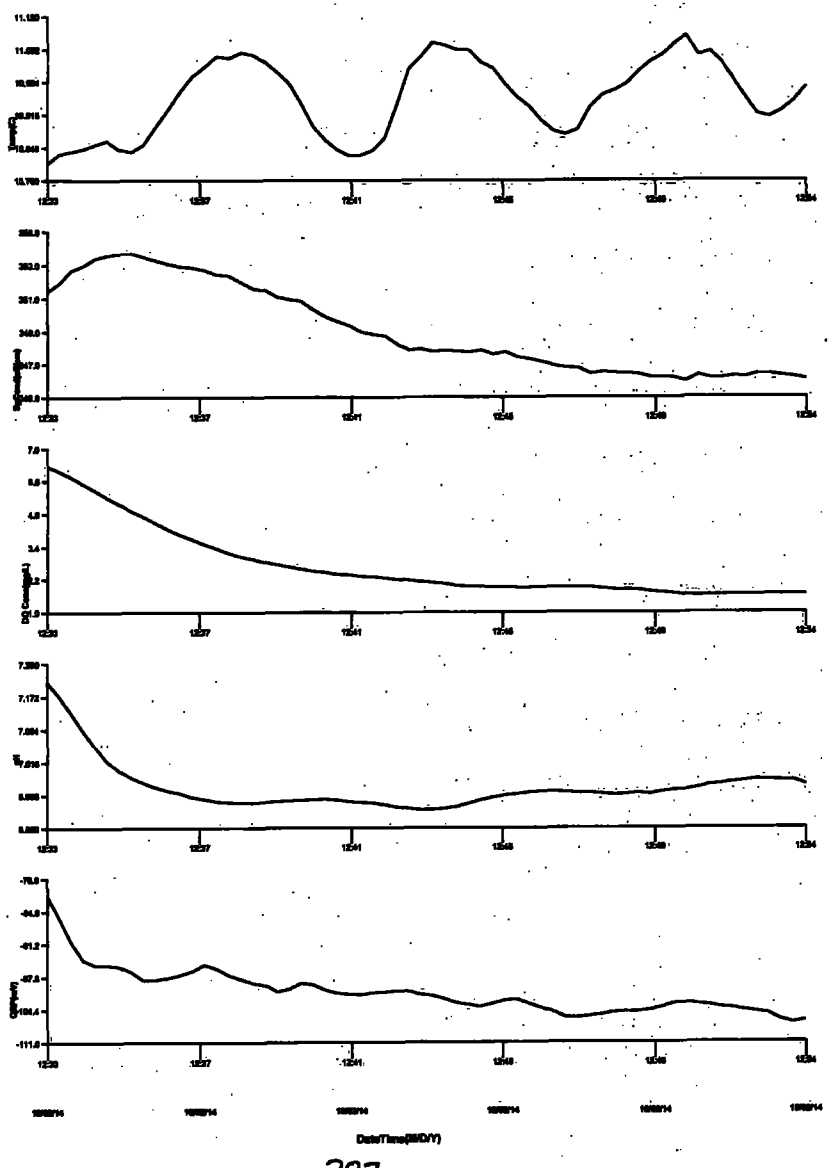
W-103S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/02/14 12:33:11	10.81	351.4	6.37	7.21	-81
2	10/02/14 12:33:31	10.83	351.9	6.18	7.18	-86
3	10/02/14 12:33:51	10.84	352.7	5.95	7.14	-91
4	10/02/14 12:34:11	10.84	353.0	5.70	7.09	-94
5	10/02/14 12:34:31	10.85	353.4	5.46	7.05	-96
6	10/02/14 12:34:51	10.86	353.6	5.19	7.02	-95
7	10/02/14 12:35:11	10.84	353.7	4.96	7.00	-96
8	10/02/14 12:35:31	10.84	353.8	4.69	6.98	-97
9	10/02/14 12:35:51	10.85	353.6	4.48	6.97	-99
10	10/02/14 12:36:11	10.89	353.3	4.25	6.95	-99
11	10/02/14 12:36:31	10.92	353.1	4.03	6.95	-98
12	10/02/14 12:36:51	10.96	353.0	3.83	6.94	-97
13	10/02/14 12:37:11	11.00	352.9	3.66	6.93	-97
14	10/02/14 12:37:31	11.02	352.7	3.49	6.93	-95
15	10/02/14 12:37:51	11.04	352.5	3.33	6.92	-96
16	10/02/14 12:38:11	11.03	352.4	3.14	6.92	-98
17	10/02/14 12:38:31	11.05	352.0	3.01	6.92	-98
18	10/02/14 12:38:51	11.04	351.6	2.91	6.92	-99
19	10/02/14 12:39:11	11.03	351.5	2.80	6.92	-100
20	10/02/14 12:39:31	11.00	351.1	2.72	6.92	-101
21	10/02/14 12:39:51	10.98	351.0	2.62	6.92	-100
22	10/02/14 12:40:11	10.94	350.8	2.54	6.92	-99
23	10/02/14 12:40:31	10.89	350.3	2.46	6.92	-100
24	10/02/14 12:40:51	10.86	349.9	2.42	6.93	-101
25	10/02/14 12:41:11	10.84	349.6	2.35	6.92	-101
26	10/02/14 12:41:31	10.83	349.3	2.33	6.92	-101
27	10/02/14 12:41:51	10.83	348.9	2.28	6.92	-102
28	10/02/14 12:42:11	10.84	348.8	2.25	6.92	-101
29	10/02/14 12:42:31	10.87	348.7	2.21	6.91	-101
30	10/02/14 12:42:51	10.94	348.2	2.15	6.91	-101
31	10/02/14 12:43:11	11.01	347.8	2.12	6.90	-101
32	10/02/14 12:43:31	11.04	347.9	2.07	6.90	-102

W-103S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	10/02/14 12:43:51	11.07	347.7	2.02	6.90	-102
34	10/02/14 12:44:11	11.06	347.8	1.99	6.90	-102
35	10/02/14 12:44:31	11.05	347.7	1.91	6.91	-103
36	10/02/14 12:44:51	11.05	347.7	1.89	6.91	-104
37	10/02/14 12:45:11	11.03	347.8	1.88	6.92	-104
38	10/02/14 12:45:31	11.01	347.5	1.87	6.93	-104
39	10/02/14 12:45:51	10.98	347.7	1.87	6.93	-103
40	10/02/14 12:46:11	10.95	347.4	1.84	6.94	-103
41	10/02/14 12:46:31	10.93	347.3	1.84	6.94	-104
42	10/02/14 12:46:51	10.90	347.1	1.86	6.94	-104
43	10/02/14 12:47:11	10.88	346.8	1.86	6.94	-105
44	10/02/14 12:47:31	10.87	346.7	1.87	6.94	-106
45	10/02/14 12:47:51	10.88	346.7	1.85	6.94	-106
46	10/02/14 12:48:11	10.93	346.3	1.84	6.94	-106
47	10/02/14 12:48:31	10.96	346.4	1.80	6.94	-106
48	10/02/14 12:48:51	10.97	346.4	1.77	6.94	-105
49	10/02/14 12:49:11	10.98	346.3	1.77	6.94	-105
50	10/02/14 12:49:31	11.01	346.3	1.75	6.94	-105
51	10/02/14 12:49:51	11.03	346.1	1.69	6.94	-105
52	10/02/14 12:50:11	11.04	346.1	1.65	6.94	-104
53	10/02/14 12:50:31	11.07	346.1	1.61	6.95	-104
54	10/02/14 12:50:51	11.08	345.9	1.56	6.95	-103
55	10/02/14 12:51:11	11.04	346.2	1.54	6.95	-104
56	10/02/14 12:51:31	11.05	346.0	1.56	6.96	-104
57	10/02/14 12:51:51	11.02	346.0	1.58	6.96	-104
58	10/02/14 12:52:11	10.99	346.2	1.57	6.97	-104
59	10/02/14 12:52:31	10.95	346.1	1.58	6.97	-105
60	10/02/14 12:52:51	10.92	346.3	1.58	6.97	-105
61	10/02/14 12:53:11	10.91	346.3	1.60	6.97	-106
62	10/02/14 12:53:31	10.92	346.2	1.59	6.97	-107
63	10/02/14 12:53:51	10.94	346.1	1.60	6.97	-107
64	10/02/14 12:54:11	10.97	345.9	1.60	6.96	-107

W-103S.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-103i-0914
Volatile bottles preserved by: JR 09/18/14 0547 2725
Sampled by: M

Date: 10.2.14
Time: 1:45 pm
Weather: cool

Top of casing elevation: 646.3 ft
Depth to well bottom: 96.94 ft
Depth to static water level: 8.72 ft
Height of water column, H: 88.22 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40
Volume of water column: H ft x .174 gal/ft. 15.4 gallons
Volume of water evacuated: 4 ,26 wc gallons
Depth to static water level after purging: 8.75
Did well recover? (YES) NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:20		8.93	11.21	7.00	5.52	1116	14.3	-71.5
2	1:35		8.95	11.24	7.14	1.35	1089	2.14	-110.5
3	1:38		8.95	11.22	7.16	1.81	1085	2.12	-112.2
4	1-41			11.26	7.17	1.78	1678	2.06	-114.8
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: (YES) NO
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature:

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W-103I.DAT

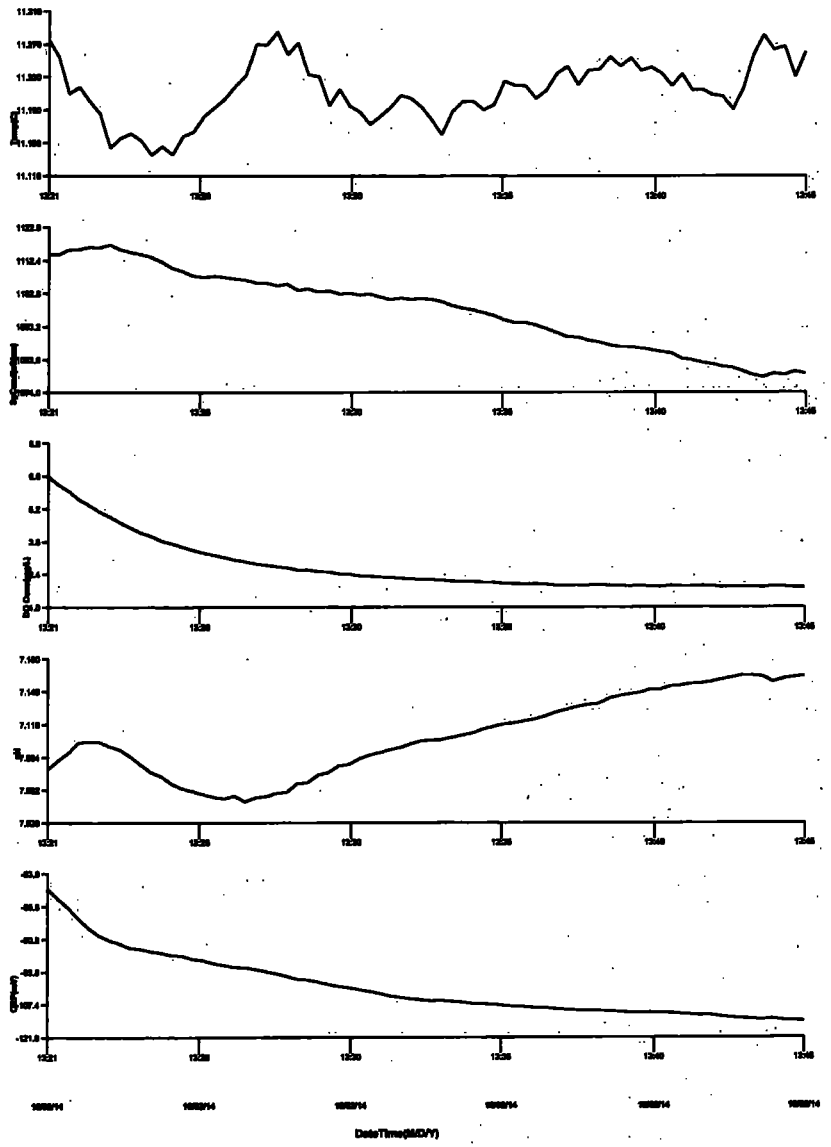
	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/02/14 13:21:15	11.28	1114.5	6.60	7.07	-59
2	10/02/14 13:21:35	11.25	1114.4	6.25	7.08	-63
3	10/02/14 13:21:55	11.21	1115.7	5.98	7.09	-67
4	10/02/14 13:22:15	11.22	1115.8	5.60	7.10	-71
5	10/02/14 13:22:35	11.20	1116.5	5.36	7.10	-75
6	10/02/14 13:22:55	11.18	1116.4	5.07	7.10	-79
7	10/02/14 13:23:15	11.14	1117.1	4.86	7.09	-81
8	10/02/14 13:23:35	11.15	1115.8	4.59	7.09	-82
9	10/02/14 13:23:55	11.16	1115.1	4.38	7.08	-84
10	10/02/14 13:24:15	11.15	1114.5	4.17	7.08	-84
11	10/02/14 13:24:35	11.13	1113.6	4.01	7.07	-85
12	10/02/14 13:24:55	11.14	1112.1	3.80	7.06	-86
13	10/02/14 13:25:15	11.13	1110.4	3.68	7.06	-87
14	10/02/14 13:25:35	11.16	1109.4	3.54	7.05	-87
15	10/02/14 13:25:55	11.16	1108.0	3.39	7.05	-89
16	10/02/14 13:26:15	11.18	1107.7	3.28	7.05	-89
17	10/02/14 13:26:35	11.19	1107.9	3.18	7.04	-91
18	10/02/14 13:26:55	11.20	1107.7	3.08	7.04	-91
19	10/02/14 13:27:15	11.22	1107.2	2.96	7.04	-92
20	10/02/14 13:27:35	11.23	1106.8	2.89	7.04	-92
21	10/02/14 13:27:55	11.27	1105.9	2.78	7.04	-93
22	10/02/14 13:28:15	11.27	1105.9	2.74	7.04	-94
23	10/02/14 13:28:35	11.29	1105.1	2.67	7.05	-95
24	10/02/14 13:28:55	11.26	1105.5	2.62	7.05	-96
25	10/02/14 13:29:15	11.27	1103.8	2.52	7.06	-97

W-103I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/02/14 13:29:35	11.23	1104.2	2.53	7.06	-97
27	10/02/14 13:29:55	11.23	1103.2	2.45	7.07	-98
28	10/02/14 13:30:15	11.20	1103.6	2.44	7.07	-99
29	10/02/14 13:30:35	11.21	1102.7	2.35	7.07	-100
30	10/02/14 13:30:55	11.19	1102.9	2.34	7.08	-101
31	10/02/14 13:31:15	11.19	1102.3	2.27	7.08	-102
32	10/02/14 13:31:35	11.17	1102.5	2.25	7.09	-102
33	10/02/14 13:31:55	11.18	1101.8	2.22	7.09	-103
34	10/02/14 13:32:15	11.19	1101.0	2.20	7.09	-104
35	10/02/14 13:32:35	11.21	1101.4	2.16	7.09	-105
36	10/02/14 13:32:55	11.20	1101.1	2.13	7.10	-105
37	10/02/14 13:33:15	11.19	1101.3	2.11	7.10	-106
38	10/02/14 13:33:35	11.18	1101.0	2.10	7.10	-106
39	10/02/14 13:33:55	11.16	1100.4	2.08	7.10	-106
40	10/02/14 13:34:15	11.19	1099.2	2.04	7.10	-107
41	10/02/14 13:34:35	11.20	1098.4	2.03	7.11	-107
42	10/02/14 13:34:55	11.20	1097.9	2.01	7.11	-107
43	10/02/14 13:35:15	11.19	1097.1	1.98	7.11	-108
44	10/02/14 13:35:35	11.20	1096.3	1.98	7.11	-108
45	10/02/14 13:35:55	11.23	1095.0	1.94	7.12	-108
46	10/02/14 13:36:15	11.22	1094.2	1.93	7.12	-109
47	10/02/14 13:36:35	11.22	1094.2	1.91	7.12	-109
48	10/02/14 13:36:55	11.20	1093.6	1.93	7.12	-109
49	10/02/14 13:37:15	11.21	1092.5	1.88	7.12	-109
50	10/02/14 13:37:35	11.23	1091.3	1.85	7.13	-110

W-103I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/02/14 13:37:55	11.24	1090.1	1.85	7.13	-110
52	10/02/14 13:38:15	11.22	1089.9	1.85	7.13	-110
53	10/02/14 13:38:35	11.24	1089.0	1.86	7.14	-110
54	10/02/14 13:38:55	11.24	1088.4	1.88	7.14	-111
55	10/02/14 13:39:15	11.26	1087.6	1.85	7.14	-111
56	10/02/14 13:39:35	11.24	1087.1	1.84	7.14	-111
57	10/02/14 13:39:55	11.25	1087.1	1.81	7.15	-111
58	10/02/14 13:40:15	11.24	1086.7	1.83	7.15	-111
59	10/02/14 13:40:35	11.24	1086.2	1.80	7.15	-111
60	10/02/14 13:40:55	11.23	1085.6	1.80	7.15	-111
61	10/02/14 13:41:15	11.22	1085.2	1.84	7.15	-111
62	10/02/14 13:41:35	11.23	1083.6	1.81	7.15	-112
63	10/02/14 13:41:55	11.21	1083.1	1.81	7.16	-112
64	10/02/14 13:42:15	11.21	1082.4	1.82	7.16	-112
65	10/02/14 13:42:35	11.21	1081.9	1.82	7.16	-112
66	10/02/14 13:42:55	11.21	1081.2	1.79	7.16	-113
67	10/02/14 13:43:15	11.19	1080.9	1.80	7.16	-113
68	10/02/14 13:43:35	11.22	1079.8	1.79	7.16	-114
69	10/02/14 13:43:55	11.26	1078.6	1.79	7.16	-114
70	10/02/14 13:44:15	11.28	1078.0	1.77	7.16	-114
71	10/02/14 13:44:35	11.26	1079.1	1.81	7.16	-114
72	10/02/14 13:44:55	11.27	1078.7	1.80	7.16	-114
73	10/02/14 13:45:15	11.23	1079.7	1.78	7.16	-115
74	10/02/14 13:45:35	11.26	1079.1	1.76	7.16	-115



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-124d-0914
Volatile bottles preserved by: JR 09/16/14 0600 2725
Sampled by: [illegible]

Date: 10-2-14
Time: 2:35 pm
Weather: cool

Top of casing elevation: 644.38 ft
Depth to well bottom: 98.9 ft
Depth to static water level: 7.97 ft
Height of water column, H: 90.93 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 13.9 gallons
Volume of water evacuated: 3 .22uc gallons
Depth to static water level after purging: 8.06
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	2:10		8.05	12.69	7.42	4.08	509	50.8	-57.3
2	2:25		8.08	12.82	7.47	1.59	494	2.93	-126.5
3	2:28		8.05	12.70	7.47	1.59	493	2.19	-126.5
4	2:31		8.07	12.81	7.47	1.55	491	2.42	-124.5
5									
6									
7									
8									

Sample color: cloudy
Sample turbidity: mild
Sample odor: (YES) NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: [signature] 293

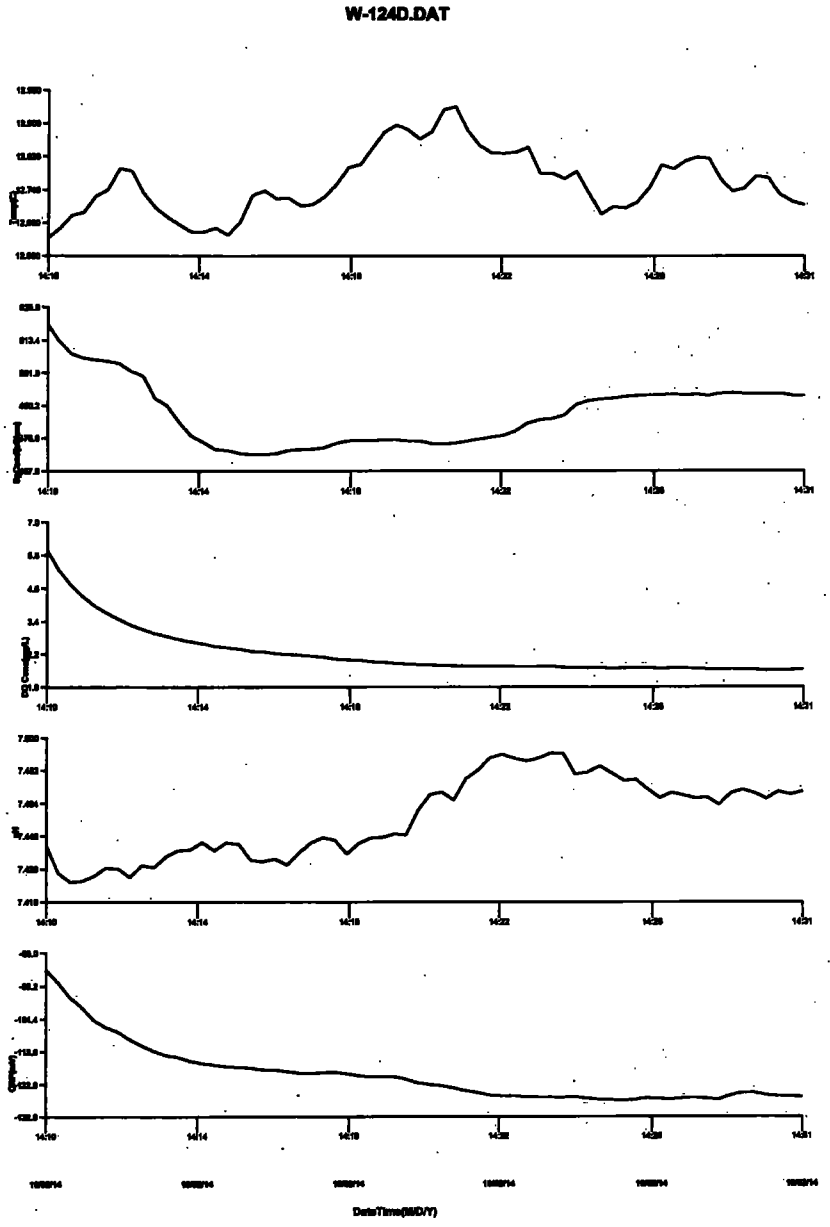
W:\124d-0212.xls

W-124D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/02/14 14:10:09	12.62	519.4	6.01	7.44	-90
2	10/02/14 14:10:29	12.64	513.1	5.27	7.43	-94
3	10/02/14 14:10:49	12.68	508.8	4.73	7.42	-98
4	10/02/14 14:11:09	12.68	507.1	4.32	7.42	-101
5	10/02/14 14:11:29	12.72	506.5	3.96	7.42	-105
6	10/02/14 14:11:49	12.74	506.1	3.70	7.43	-107
7	10/02/14 14:12:09	12.79	505.2	3.47	7.43	-108
8	10/02/14 14:12:29	12.78	502.4	3.26	7.42	-110
9	10/02/14 14:12:49	12.73	500.6	3.09	7.43	-112
10	10/02/14 14:13:09	12.69	492.5	2.94	7.43	-114
11	10/02/14 14:13:29	12.67	490.0	2.84	7.43	-115
12	10/02/14 14:13:49	12.65	484.0	2.72	7.44	-115
13	10/02/14 14:14:09	12.63	479.0	2.63	7.44	-116
14	10/02/14 14:14:29	12.63	476.7	2.55	7.44	-117
15	10/02/14 14:14:49	12.64	474.0	2.45	7.44	-118
16	10/02/14 14:15:09	12.63	473.7	2.40	7.44	-118
17	10/02/14 14:15:29	12.66	472.7	2.35	7.44	-118
18	10/02/14 14:15:49	12.72	472.2	2.27	7.43	-118
19	10/02/14 14:16:09	12.74	472.2	2.24	7.43	-119
20	10/02/14 14:16:29	12.72	472.5	2.19	7.43	-119
21	10/02/14 14:16:49	12.72	473.7	2.14	7.43	-119
22	10/02/14 14:17:09	12.70	473.9	2.12	7.44	-120
23	10/02/14 14:17:29	12.70	474.3	2.08	7.44	-120
24	10/02/14 14:17:49	12.72	474.6	2.04	7.44	-120
25	10/02/14 14:18:09	12.75	476.3	1.98	7.44	-120
26	10/02/14 14:18:29	12.79	477.2	1.93	7.44	-120
27	10/02/14 14:18:49	12.80	477.4	1.92	7.44	-121
28	10/02/14 14:19:09	12.84	477.3	1.87	7.44	-121
29	10/02/14 14:19:29	12.88	477.4	1.85	7.44	-121
30	10/02/14 14:19:49	12.90	477.5	1.81	7.45	-121
31	10/02/14 14:20:09	12.89	477.2	1.79	7.45	-122
32	10/02/14 14:20:29	12.86	477.2	1.76	7.46	-123

W-124D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	10/02/14 14:20:49	12.88	476.2	1.75	7.47	-123
34	10/02/14 14:21:09	12.94	476.1	1.73	7.47	-123
35	10/02/14 14:21:29	12.94	476.3	1.72	7.47	-124
36	10/02/14 14:21:49	12.88	477.0	1.71	7.48	-125
37	10/02/14 14:22:09	12.85	477.8	1.69	7.48	-125
38	10/02/14 14:22:29	12.83	478.4	1.71	7.49	-126
39	10/02/14 14:22:49	12.83	479.1	1.70	7.49	-126
40	10/02/14 14:23:09	12.83	480.7	1.69	7.49	-126
41	10/02/14 14:23:29	12.84	483.6	1.69	7.49	-127
42	10/02/14 14:23:49	12.78	484.8	1.69	7.49	-127
43	10/02/14 14:24:09	12.78	485.2	1.70	7.49	-127
44	10/02/14 14:24:29	12.77	486.4	1.67	7.49	-127
45	10/02/14 14:24:49	12.78	490.3	1.65	7.48	-127
46	10/02/14 14:25:09	12.73	491.7	1.64	7.48	-127
47	10/02/14 14:25:29	12.68	492.2	1.65	7.48	-127
48	10/02/14 14:25:49	12.70	492.6	1.61	7.48	-128
49	10/02/14 14:26:09	12.69	493.2	1.64	7.48	-128
50	10/02/14 14:26:29	12.71	493.5	1.65	7.48	-127
51	10/02/14 14:26:49	12.74	493.7	1.65	7.47	-127
52	10/02/14 14:27:09	12.80	493.8	1.61	7.47	-127
53	10/02/14 14:27:29	12.79	493.9	1.63	7.47	-127
54	10/02/14 14:27:49	12.81	493.8	1.62	7.47	-127
55	10/02/14 14:28:09	12.82	493.9	1.61	7.47	-127
56	10/02/14 14:28:29	12.82	493.5	1.60	7.47	-127
57	10/02/14 14:28:49	12.77	494.3	1.60	7.46	-128
58	10/02/14 14:29:09	12.74	494.4	1.60	7.47	-126
59	10/02/14 14:29:29	12.74	494.3	1.59	7.47	-125
60	10/02/14 14:29:49	12.77	494.0	1.58	7.47	-125
61	10/02/14 14:30:09	12.77	494.2	1.55	7.47	-126
62	10/02/14 14:30:29	12.73	494.2	1.58	7.47	-126
63	10/02/14 14:30:49	12.71	493.5	1.58	7.47	-127
64	10/02/14 14:31:09	12.70	493.5	1.59	7.47	-127



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: OW-9d-0914
Volatile bottles preserved by: JB 10/8/14 exp 2725
Sampled by: AP

Date: 10-9-14
Time: 8:45 am
Weather: Rain

Top of casing elevation: 644.64 ft
Depth to well bottom: 93.89 ft
Depth to static water level: 8.07 ft
Height of water column, H: 85.87 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80 +
Volume of water column: H ft x .597 gal/ft. 51 gallons
Volume of water evacuated: 4.5 .09 gallons
Depth to static water level after purging: 8.07
Did well recover? (YES) NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:20		8.13	12.82	6.96	6.36	915	59.1	-48.4
2	8:35		8.20	11.69	6.96	4.53	1049	12.0	-59.8
3	8:38		8.15	11.62	6.99	4.27	1047	11.9	-62.2
4	8:41		8.17	11.60	6.99	4.27	1045	11.5	-62.7
5									
6									
7									
8									

Sample color: slightly Cloudy
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 297

OW-9d-0914.xls

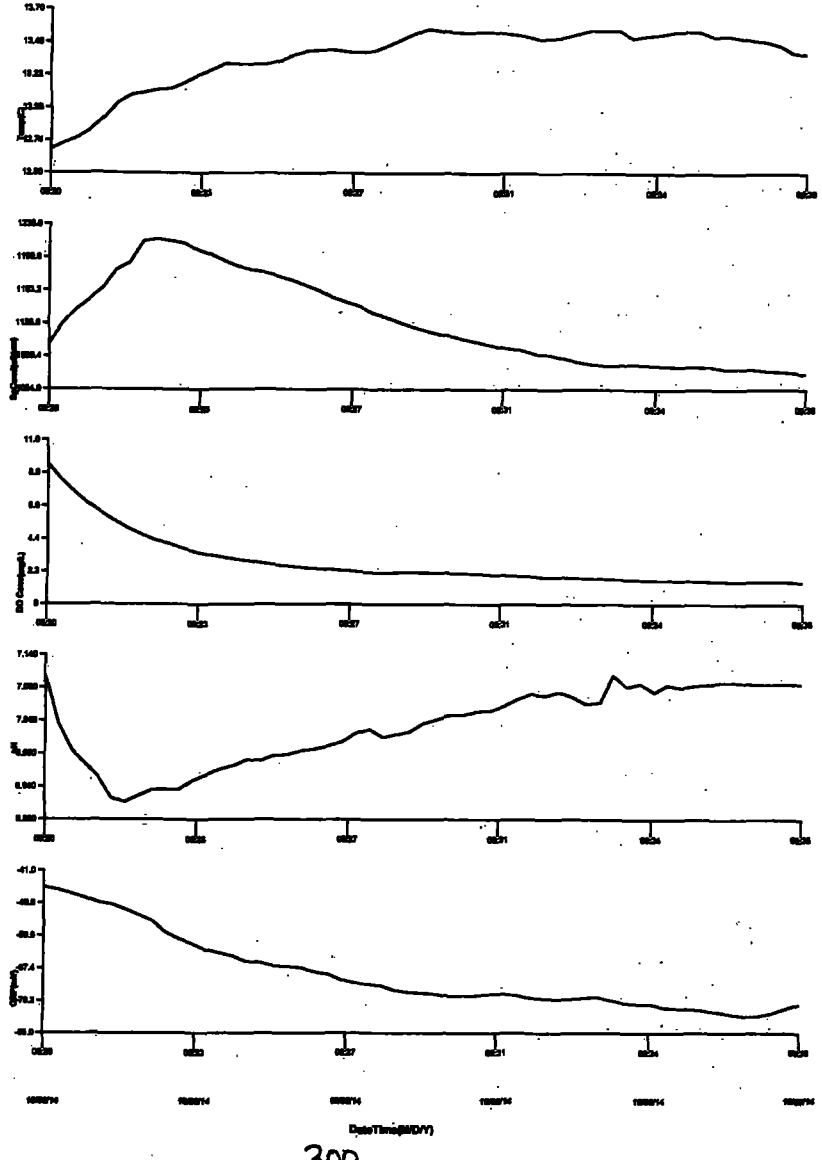
OW-9D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/03/14 08:20:01	12.66	1102.2	9.45	7.11	-45
2	10/03/14 08:20:21	12.71	1124.9	8.39	7.04	-46
3	10/03/14 08:20:41	12.75	1141.0	7.52	6.99	-47
4	10/03/14 08:21:01	12.82	1152.5	6.79	6.97	-48
5	10/03/14 08:21:21	12.91	1165.1	6.15	6.95	-49
6	10/03/14 08:21:41	13.01	1186.3	5.58	6.92	-50
7	10/03/14 08:22:01	13.07	1194.1	5.07	6.91	-51
8	10/03/14 08:22:21	13.09	1218.4	4.64	6.92	-53
9	10/03/14 08:22:41	13.11	1220.5	4.28	6.93	-54
10	10/03/14 08:23:01	13.12	1218.9	4.02	6.93	-58
11	10/03/14 08:23:21	13.16	1216.0	3.73	6.93	-59
12	10/03/14 08:23:41	13.22	1209.1	3.44	6.95	-61
13	10/03/14 08:24:01	13.26	1203.5	3.25	6.96	-62
14	10/03/14 08:24:21	13.30	1196.3	3.08	6.97	-63
15	10/03/14 08:24:41	13.30	1190.2	2.94	6.97	-64
16	10/03/14 08:25:01	13.30	1186.1	2.81	6.98	-66
17	10/03/14 08:25:21	13.30	1182.9	2.67	6.98	-66
18	10/03/14 08:25:41	13.32	1178.8	2.55	6.99	-67
19	10/03/14 08:26:01	13.37	1174.4	2.47	6.99	-67
20	10/03/14 08:26:21	13.40	1168.6	2.38	6.99	-67
21	10/03/14 08:26:41	13.41	1162.8	2.31	7.00	-68
22	10/03/14 08:27:01	13.41	1154.8	2.24	7.00	-69
23	10/03/14 08:27:21	13.39	1149.9	2.18	7.01	-71
24	10/03/14 08:27:41	13.39	1145.1	2.08	7.02	-72
25	10/03/14 08:28:01	13.40	1137.7	2.03	7.03	-72
26	10/03/14 08:28:21	13.44	1133.3	2.01	7.01	-72
27	10/03/14 08:28:41	13.49	1127.6	2.06	7.02	-74
28	10/03/14 08:29:01	13.53	1122.6	2.08	7.02	-74
29	10/03/14 08:29:21	13.56	1117.9	2.05	7.04	-74

OW-9D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
30	10/03/14 08:29:41	13.55	1114.0	2.04	7.04	-75
31	10/03/14 08:30:01	13.54	1111.5	1.99	7.05	-75
32	10/03/14 08:30:21	13.54	1107.7	1.97	7.05	-75
33	10/03/14 08:30:41	13.54	1104.4	1.94	7.05	-75
34	10/03/14 08:31:01	13.54	1100.7	1.90	7.06	-75
35	10/03/14 08:31:21	13.53	1098.1	1.86	7.06	-75
36	10/03/14 08:31:41	13.52	1096.3	1.80	7.07	-75
37	10/03/14 08:32:01	13.49	1091.8	1.78	7.08	-76
38	10/03/14 08:32:21	13.49	1091.0	1.72	7.08	-76
39	10/03/14 08:32:41	13.50	1087.5	1.70	7.08	-76
40	10/03/14 08:33:01	13.53	1083.4	1.68	7.08	-76
41	10/03/14 08:33:21	13.56	1080.7	1.65	7.07	-76
42	10/03/14 08:33:41	13.56	1079.1	1.64	7.07	-76
43	10/03/14 08:34:01	13.55	1078.9	1.61	7.11	-76
44	10/03/14 08:34:21	13.50	1080.5	1.56	7.09	-77
45	10/03/14 08:34:41	13.52	1079.4	1.54	7.10	-77
46	10/03/14 08:35:01	13.53	1078.6	1.52	7.08	-77
47	10/03/14 08:35:21	13.54	1078.0	1.52	7.09	-78
48	10/03/14 08:35:41	13.55	1077.8	1.49	7.09	-79
49	10/03/14 08:36:01	13.54	1077.4	1.46	7.09	-79
50	10/03/14 08:36:21	13.51	1077.3	1.45	7.09	-79
51	10/03/14 08:36:41	13.52	1075.1	1.45	7.10	-80
52	10/03/14 08:37:01	13.50	1075.3	1.42	7.10	-80
53	10/03/14 08:37:21	13.48	1074.8	1.43	7.10	-81
54	10/03/14 08:37:41	13.47	1073.3	1.43	7.10	-81
55	10/03/14 08:38:01	13.44	1072.3	1.42	7.10	-80
56	10/03/14 08:38:21	13.39	1071.7	1.41	7.10	-79
57	10/03/14 08:38:41	13.38	1069.6	1.38	7.10	-78

OW-9D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-124s-0914
Volatile bottles preserved by: HCl 09/15/14 Lot# 2725
Sampled by: SF

Date: 10-3-14
Time: 9:55 am
Weather: Rain/Wind

Top of casing elevation: 644.06 ft
Depth to well bottom: 20.725 ft

Depth to static water level: 11.50 ft
Height of water column, H: 9.225 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40

Volume of water column: H ft x .174 gal/ft. 1.6 gallons

Volume of water evacuated: 4 2.5 vol gallons

Depth to static water level after purging: 11.53
Did well recover? YES NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:30		11.55	11.57	6.86	2.65	353	-2.76	-62.0
2	9:45		11.55	11.55	6.81	1.57	344	-14.47	-76.9
3	9:48		11.55	11.53	6.87	1.48	349	-15.01	-82.7
4	9:51			11.55	6.82	1.42	348	-16.26	-87.0
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 301

W-124s-0914.xls

W-124S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/03/14 09:29:47	11.57	367.2	4.94	6.87	-38
2	10/03/14 09:30:07	11.57	366.6	4.28	6.84	-43
3	10/03/14 09:30:27	11.58	363.6	3.82	6.82	-47
4	10/03/14 09:30:47	11.58	360.0	3.44	6.81	-51
5	10/03/14 09:31:07	11.58	356.0	3.17	6.81	-55
6	10/03/14 09:31:27	11.57	353.9	2.98	6.80	-58
7	10/03/14 09:31:47	11.57	352.2	2.80	6.80	-61
8	10/03/14 09:32:07	11.55	351.6	2.65	6.80	-63
9	10/03/14 09:32:27	11.55	350.8	2.54	6.79	-65
10	10/03/14 09:32:47	11.55	350.5	2.45	6.79	-66
11	10/03/14 09:33:07	11.56	350.2	2.39	6.79	-68
12	10/03/14 09:33:27	11.57	349.9	2.33	6.79	-69
13	10/03/14 09:33:47	11.57	349.9	2.28	6.79	-70
14	10/03/14 09:34:07	11.57	349.7	2.22	6.80	-72
15	10/03/14 09:34:27	11.57	349.6	2.17	6.79	-73
16	10/03/14 09:34:47	11.56	349.3	2.14	6.79	-74
17	10/03/14 09:35:07	11.56	349.3	2.12	6.79	-74
18	10/03/14 09:35:27	11.55	350.1	2.08	6.79	-75
19	10/03/14 09:35:47	11.55	351.4	2.05	6.79	-76
20	10/03/14 09:36:07	11.55	352.4	2.02	6.79	-77
21	10/03/14 09:36:27	11.54	352.8	1.99	6.79	-77
22	10/03/14 09:36:47	11.54	352.5	1.96	6.79	-78
23	10/03/14 09:37:07	11.53	352.3	1.93	6.79	-78
24	10/03/14 09:37:27	11.54	351.5	1.92	6.80	-79
25	10/03/14 09:37:47	11.55	351.1	1.90	6.80	-79
26	10/03/14 09:38:07	11.55	350.8	1.86	6.80	-79
27	10/03/14 09:38:27	11.56	350.4	1.87	6.80	-80

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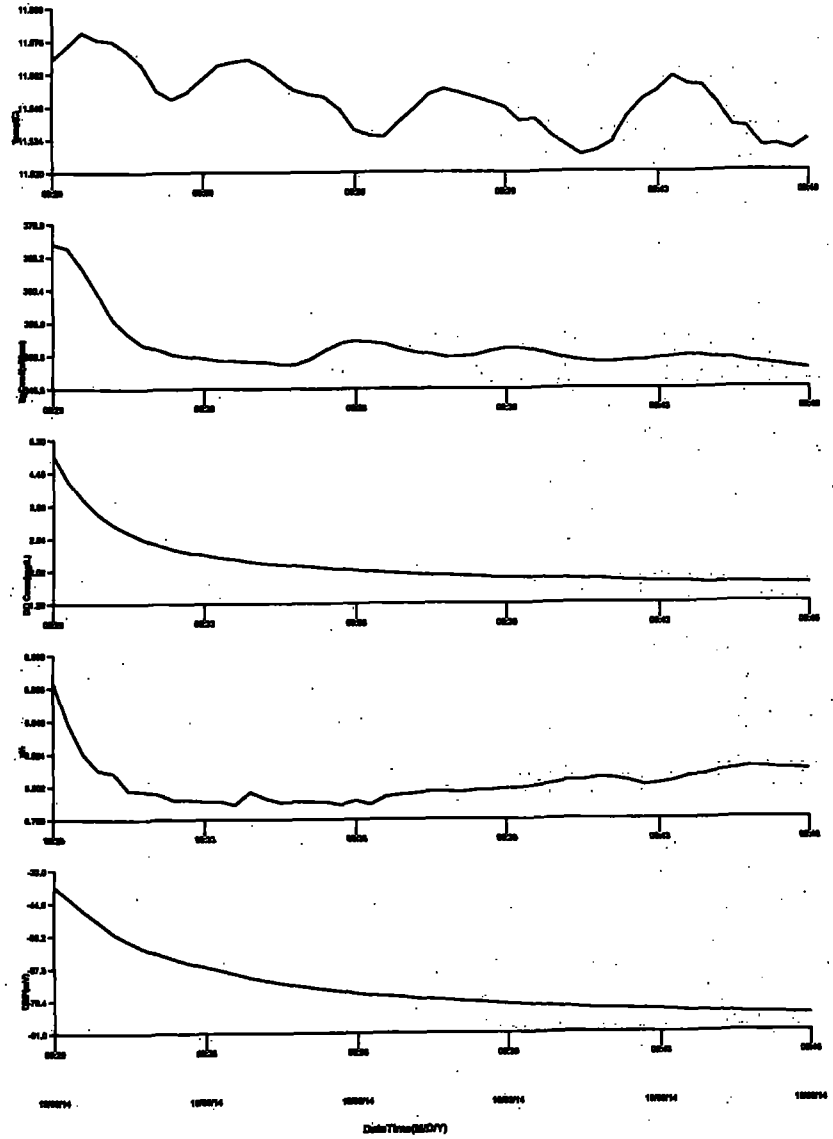
W-124S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
28	10/03/14 09:38:47	11.55	350.4	1.85	6.80	-80
29	10/03/14 09:39:07	11.55	350.6	1.84	6.80	-80
30	10/03/14 09:39:27	11.55	351.2	1.81	6.80	-81
31	10/03/14 09:39:47	11.55	351.7	1.81	6.80	-81
32	10/03/14 09:40:07	11.54	351.6	1.80	6.80	-81
33	10/03/14 09:40:27	11.54	351.2	1.79	6.80	-82
34	10/03/14 09:40:47	11.54	350.6	1.77	6.80	-82
35	10/03/14 09:41:07	11.53	350.0	1.76	6.80	-82
36	10/03/14 09:41:27	11.53	349.7	1.75	6.80	-83
37	10/03/14 09:41:47	11.53	349.5	1.75	6.81	-83
38	10/03/14 09:42:07	11.53	349.5	1.73	6.81	-83
39	10/03/14 09:42:27	11.54	349.7	1.71	6.80	-83
40	10/03/14 09:42:47	11.55	349.8	1.69	6.80	-83
41	10/03/14 09:43:07	11.55	350.0	1.70	6.80	-83
42	10/03/14 09:43:27	11.56	350.3	1.68	6.80	-84
43	10/03/14 09:43:47	11.56	350.5	1.68	6.81	-84
44	10/03/14 09:44:07	11.56	350.3	1.64	6.81	-84
45	10/03/14 09:44:27	11.55	350.0	1.65	6.81	-84
46	10/03/14 09:44:47	11.54	349.9	1.64	6.81	-85
47	10/03/14 09:45:07	11.54	349.5	1.64	6.81	-85
48	10/03/14 09:45:27	11.53	349.3	1.62	6.81	-85
49	10/03/14 09:45:47	11.53	349.0	1.63	6.81	-85
50	10/03/14 09:46:07	11.53	348.7	1.61	6.81	-85
51	10/03/14 09:46:27	11.53	348.4	1.62	6.81	-85



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-102d-0914
Volatile bottles preserved by: JR 10/1/14 0847 2725
Sampled by: fp

Date: 10-3-14
Time: 10:35 am
Weather: WNW / Rain

Top of casing elevation: 645.63 ft Depth to well bottom: 108.9 ft

Depth to static water level: 7.31 ft Height of water column, H: 101.59 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 15.5 gallons

Volume of water evacuated: 2.75 .18wc gallons

Depth to static water level after purging: 7.31
Did well recover? (YES) NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:39		7.36	11.02	7.14	5.09	225	54.9	-2.4
2	10:45		7.48	11.03	7.08	1.47	226	32.8	-7.8
3	10:48		7.37	11.05	7.09	1.39	218	27.0	-9.6
4	10:51		7.40	11.03	7.11	1.23	219	23.06	-8.5
5									
6									
7									
8									

Sample color: slightly cloudy
Sample turbidity: low
Sample odor: YES (NO) PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 305

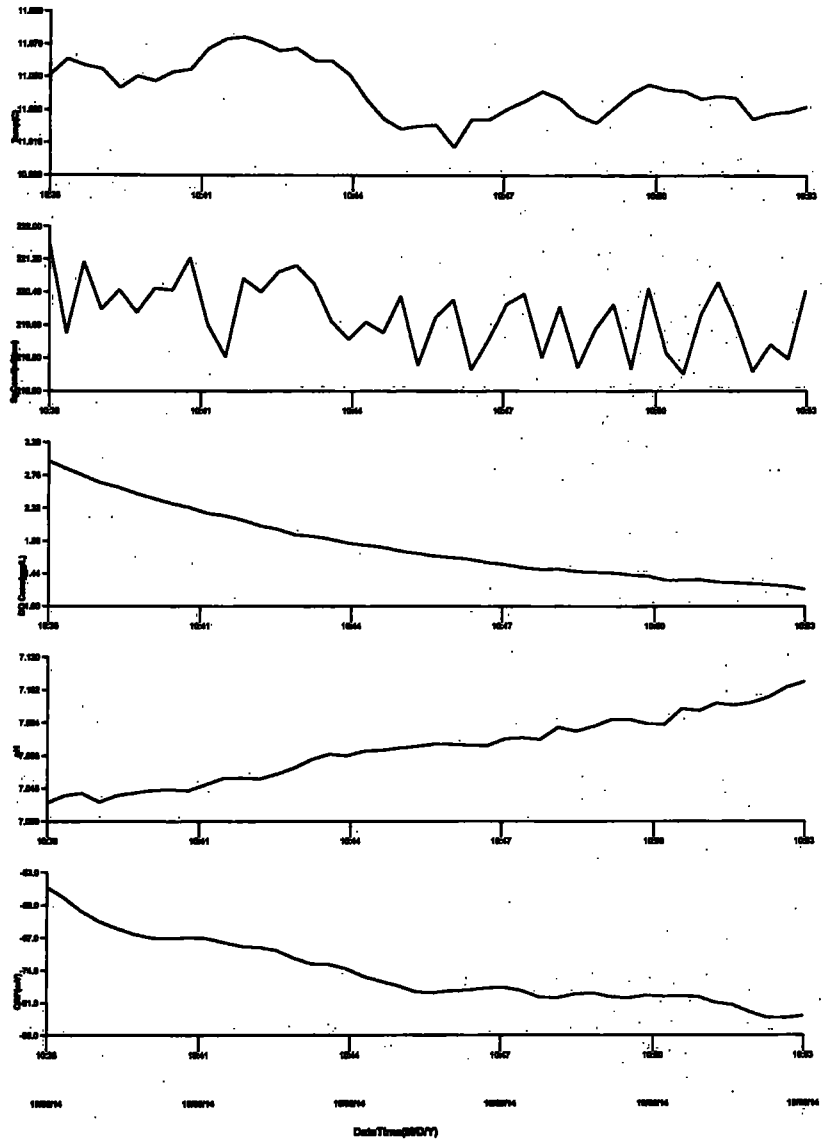
W-102D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
19	10/03/14 10:38:47	11.05	221.6	2.96	7.04	-56
20	10/03/14 10:39:07	11.06	219.4	2.86	7.04	-58
21	10/03/14 10:39:27	11.06	221.1	2.76	7.04	-61
22	10/03/14 10:39:47	11.05	220.0	2.66	7.04	-63
23	10/03/14 10:40:07	11.04	220.4	2.60	7.04	-65
24	10/03/14 10:40:27	11.05	219.9	2.52	7.04	-66
25	10/03/14 10:40:47	11.05	220.5	2.45	7.05	-67
26	10/03/14 10:41:07	11.05	220.4	2.38	7.05	-67
27	10/03/14 10:41:27	11.05	221.2	2.33	7.05	-67
28	10/03/14 10:41:47	11.07	219.6	2.25	7.05	-67
29	10/03/14 10:42:07	11.07	218.8	2.22	7.05	-68
30	10/03/14 10:42:27	11.07	220.7	2.16	7.05	-69
31	10/03/14 10:42:47	11.07	220.4	2.08	7.05	-69
32	10/03/14 10:43:07	11.07	220.9	2.03	7.06	-70
33	10/03/14 10:43:27	11.07	221.1	1.95	7.06	-71
34	10/03/14 10:43:47	11.06	220.6	1.93	7.06	-73
35	10/03/14 10:44:07	11.06	219.7	1.89	7.07	-73
36	10/03/14 10:44:27	11.05	219.2	1.84	7.07	-74
37	10/03/14 10:44:47	11.04	219.7	1.81	7.07	-75
38	10/03/14 10:45:07	11.02	219.4	1.78	7.07	-76
39	10/03/14 10:45:27	11.02	220.3	1.73	7.07	-77
40	10/03/14 10:45:47	11.02	218.6	1.70	7.07	-79
41	10/03/14 10:46:07	11.02	219.8	1.66	7.07	-79
42	10/03/14 10:46:27	11.01	220.2	1.64	7.07	-79
43	10/03/14 10:46:47	11.02	218.5	1.61	7.07	-78

W-102D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
44	10/03/14 10:47:07	11.02	219.2	1.57	7.07	-78
45	10/03/14 10:47:27	11.03	220.1	1.54	7.08	-78
46	10/03/14 10:47:47	11.03	220.3	1.50	7.08	-78
47	10/03/14 10:48:07	11.04	218.8	1.48	7.07	-80
48	10/03/14 10:48:27	11.04	220.0	1.48	7.08	-80
49	10/03/14 10:48:47	11.03	218.5	1.45	7.08	-79
50	10/03/14 10:49:07	11.02	219.5	1.44	7.08	-79
51	10/03/14 10:49:27	11.03	220.1	1.43	7.09	-80
52	10/03/14 10:49:47	11.04	218.5	1.40	7.09	-80
53	10/03/14 10:50:07	11.04	220.5	1.39	7.08	-80
54	10/03/14 10:50:27	11.04	218.9	1.34	7.08	-80
55	10/03/14 10:50:47	11.04	218.4	1.34	7.09	-80
56	10/03/14 10:51:07	11.04	219.8	1.34	7.09	-80
57	10/03/14 10:51:27	11.04	220.6	1.31	7.09	-81
58	10/03/14 10:51:47	11.04	219.7	1.30	7.09	-82
59	10/03/14 10:52:07	11.02	218.4	1.29	7.10	-83
60	10/03/14 10:52:27	11.03	219.1	1.28	7.10	-85
61	10/03/14 10:52:47	11.03	218.7	1.25	7.10	-85
62	10/03/14 10:53:07	11.03	220.4	1.22	7.11	-84

W-102D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-102i-0914
Volatile bottles preserved by: HCl solution OSCE 2725
Sampled by: TP

Date: 10-3-14
Time: 11:36am
Weather: Rain

Top of casing elevation: 647.04 ft
Depth to well bottom: 91.97 ft

Depth to static water level: 10.43 ft
Height of water column, H: 81.54 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40

Volume of water column: H ft x .174 gal/ft. 14.2 gallons

Volume of water evacuated: 3.5 .25wc gallons

Depth to static water level after purging: 10.45
Did well recover? YES NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:10		10.50	10.80	7.73	2.66	232	9.95	-50.0
2	11:25		10.60	10.68	7.14	.89	227	1.83	-101.7
3	11:28		11.53	10.69	7.14	.80	228	1.81	-104.1
4	11:31		11.48	10.67	7.15	.73	228	1.46	-104.5
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 309

W-102i-0212.xls

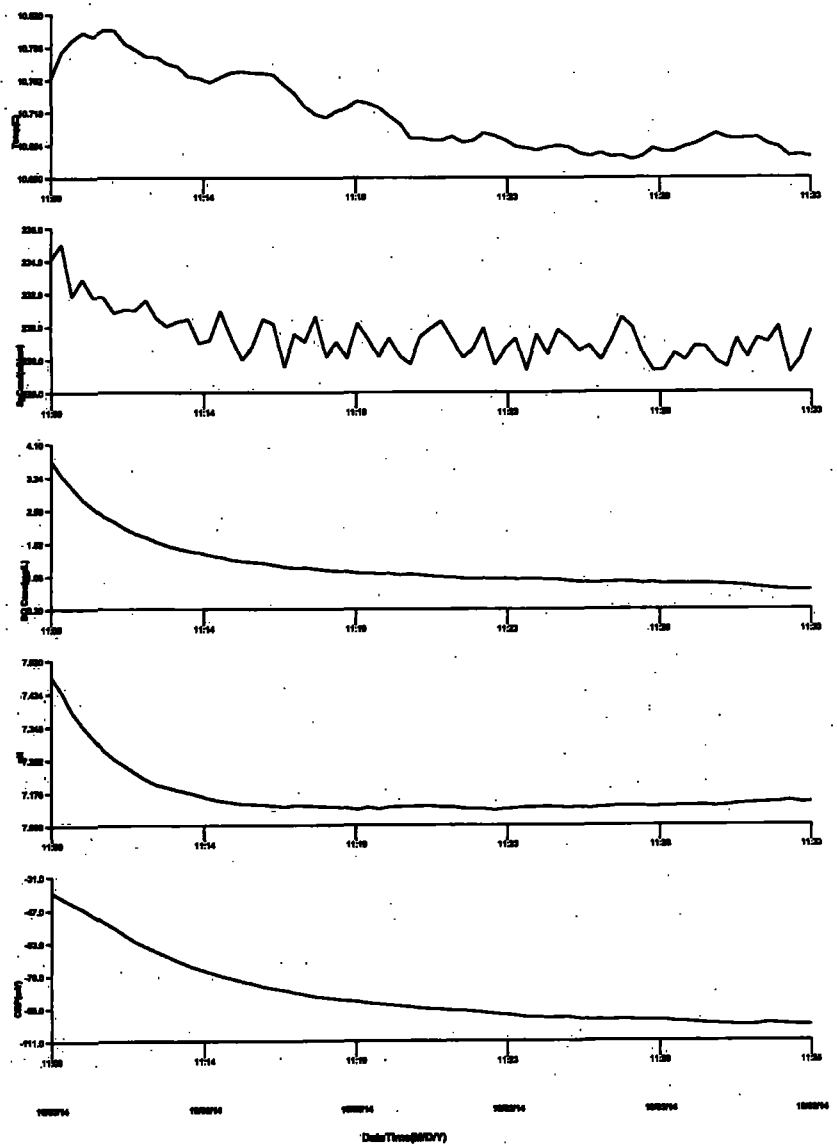
W-102I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/03/14 11:09:31	10.75	234.1	3.74	7.48	-38
2	10/03/14 11:09:51	10.78	235.1	3.38	7.44	-41
3	10/03/14 11:10:11	10.79	231.8	3.10	7.39	-43
4	10/03/14 11:10:31	10.80	232.9	2.83	7.35	-46
5	10/03/14 11:10:51	10.80	231.8	2.63	7.32	-49
6	10/03/14 11:11:11	10.80	231.8	2.43	7.28	-53
7	10/03/14 11:11:31	10.80	230.8	2.30	7.26	-56
8	10/03/14 11:11:51	10.79	231.0	2.15	7.24	-59
9	10/03/14 11:12:11	10.78	230.9	2.03	7.22	-63
10	10/03/14 11:12:31	10.78	231.5	1.94	7.21	-65
11	10/03/14 11:12:51	10.78	230.5	1.83	7.19	-68
12	10/03/14 11:13:11	10.77	230.0	1.75	7.19	-70
13	10/03/14 11:13:31	10.77	230.3	1.68	7.18	-72
14	10/03/14 11:13:51	10.76	230.4	1.63	7.17	-75
15	10/03/14 11:14:11	10.75	228.9	1.59	7.17	-76
16	10/03/14 11:14:31	10.75	229.1	1.52	7.16	-78
17	10/03/14 11:14:51	10.75	230.9	1.48	7.15	-79
18	10/03/14 11:15:11	10.76	229.3	1.41	7.15	-81
19	10/03/14 11:15:31	10.76	227.9	1.38	7.14	-82
20	10/03/14 11:15:51	10.76	228.7	1.36	7.14	-84
21	10/03/14 11:16:11	10.76	230.4	1.34	7.14	-85
22	10/03/14 11:16:31	10.76	230.1	1.29	7.14	-86
23	10/03/14 11:16:51	10.75	227.4	1.25	7.13	-87
24	10/03/14 11:17:11	10.74	229.5	1.23	7.14	-88
25	10/03/14 11:17:31	10.72	229.0	1.23	7.14	-89

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/03/14 11:17:51	10.71	230.5	1.20	7.14	-90
27	10/03/14 11:18:11	10.71	228.1	1.17	7.14	-90
28	10/03/14 11:18:31	10.72	229.0	1.15	7.13	-91
29	10/03/14 11:18:51	10.72	228.0	1.14	7.13	-92
30	10/03/14 11:19:11	10.73	230.1	1.11	7.13	-92
31	10/03/14 11:19:31	10.73	229.2	1.10	7.13	-93
32	10/03/14 11:19:51	10.72	228.1	1.08	7.13	-94
33	10/03/14 11:20:11	10.71	229.2	1.09	7.13	-94
34	10/03/14 11:20:31	10.70	228.1	1.06	7.14	-95
35	10/03/14 11:20:51	10.69	227.6	1.08	7.14	-95
36	10/03/14 11:21:11	10.69	229.3	1.06	7.14	-96
37	10/03/14 11:21:31	10.69	229.8	1.03	7.14	-96
38	10/03/14 11:21:51	10.69	230.3	1.02	7.13	-96
39	10/03/14 11:22:11	10.69	229.2	1.00	7.13	-97
40	10/03/14 11:22:31	10.69	228.0	0.98	7.13	-97
41	10/03/14 11:22:51	10.69	228.5	0.96	7.13	-97
42	10/03/14 11:23:11	10.70	229.9	0.98	7.13	-98
43	10/03/14 11:23:31	10.69	227.6	0.96	7.13	-98
44	10/03/14 11:23:51	10.69	228.5	0.97	7.13	-99
45	10/03/14 11:24:11	10.68	229.2	0.96	7.13	-99
46	10/03/14 11:24:31	10.68	227.2	0.96	7.13	-100
47	10/03/14 11:24:51	10.68	229.4	0.95	7.13	-100
48	10/03/14 11:25:11	10.68	228.2	0.95	7.14	-100
49	10/03/14 11:25:31	10.68	229.7	0.94	7.13	-101
50	10/03/14 11:25:51	10.68	229.2	0.92	7.13	-100

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/03/14 11:26:11	10.67	228.5	0.89	7.13	-101
52	10/03/14 11:26:31	10.67	228.7	0.88	7.13	-101
53	10/03/14 11:26:51	10.67	227.9	0.88	7.13	-101
54	10/03/14 11:27:11	10.67	229.0	0.88	7.14	-102
55	10/03/14 11:27:31	10.67	230.5	0.90	7.14	-101
56	10/03/14 11:27:51	10.67	229.9	0.89	7.14	-101
57	10/03/14 11:28:11	10.67	228.2	0.86	7.14	-102
58	10/03/14 11:28:31	10.68	227.2	0.87	7.13	-102
59	10/03/14 11:28:51	10.68	227.3	0.85	7.14	-102
60	10/03/14 11:29:11	10.68	228.3	0.86	7.14	-102
61	10/03/14 11:29:31	10.68	227.9	0.85	7.14	-103
62	10/03/14 11:29:51	10.68	228.7	0.86	7.14	-103
63	10/03/14 11:30:11	10.69	228.7	0.85	7.14	-103
64	10/03/14 11:30:31	10.69	227.8	0.85	7.14	-104
65	10/03/14 11:30:51	10.69	227.4	0.83	7.14	-104
66	10/03/14 11:31:11	10.69	229.2	0.82	7.14	-104
67	10/03/14 11:31:31	10.69	228.0	0.80	7.14	-104
68	10/03/14 11:31:51	10.69	229.2	0.77	7.14	-104
69	10/03/14 11:32:11	10.68	229.0	0.74	7.15	-103
70	10/03/14 11:32:31	10.68	229.9	0.72	7.15	-104
71	10/03/14 11:32:51	10.67	227.1	0.71	7.15	-104
72	10/03/14 11:33:11	10.67	227.9	0.70	7.15	-104
73	10/03/14 11:33:31	10.67	229.7	0.71	7.15	-104

W-102I.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-102s-0914
Volatile bottles preserved by: HCl 07/15/14 0821 2925
Sampled by: JP

Date: 10-7-14
Time: 12:18 pm
Weather: Sunny

Top of casing elevation: 646.8 ft
Depth to well bottom: 24.71 ft
Depth to static water level: 14.00 ft
Height of water column, H: 10.71 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40
Volume of water column: H ft x .174 gal/ft. 1.86 gallons
Volume of water evacuated: 3 1.6 wc gallons
Depth to static water level after purging: 14.00
Did well recover? YES NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:41		14.00	12.21	7.06	4.05	218	15.8	-16.6
2	12		14.06	12.35	7.23	2.49	228	2.52	-66.9
3	12:09		14.00	12.34	7.22	2.56	221	2.30	-63.7
4	12:06		14.00	12.38	7.20	2.64	216	2.07	-59.6
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 314

W-102S.DAT

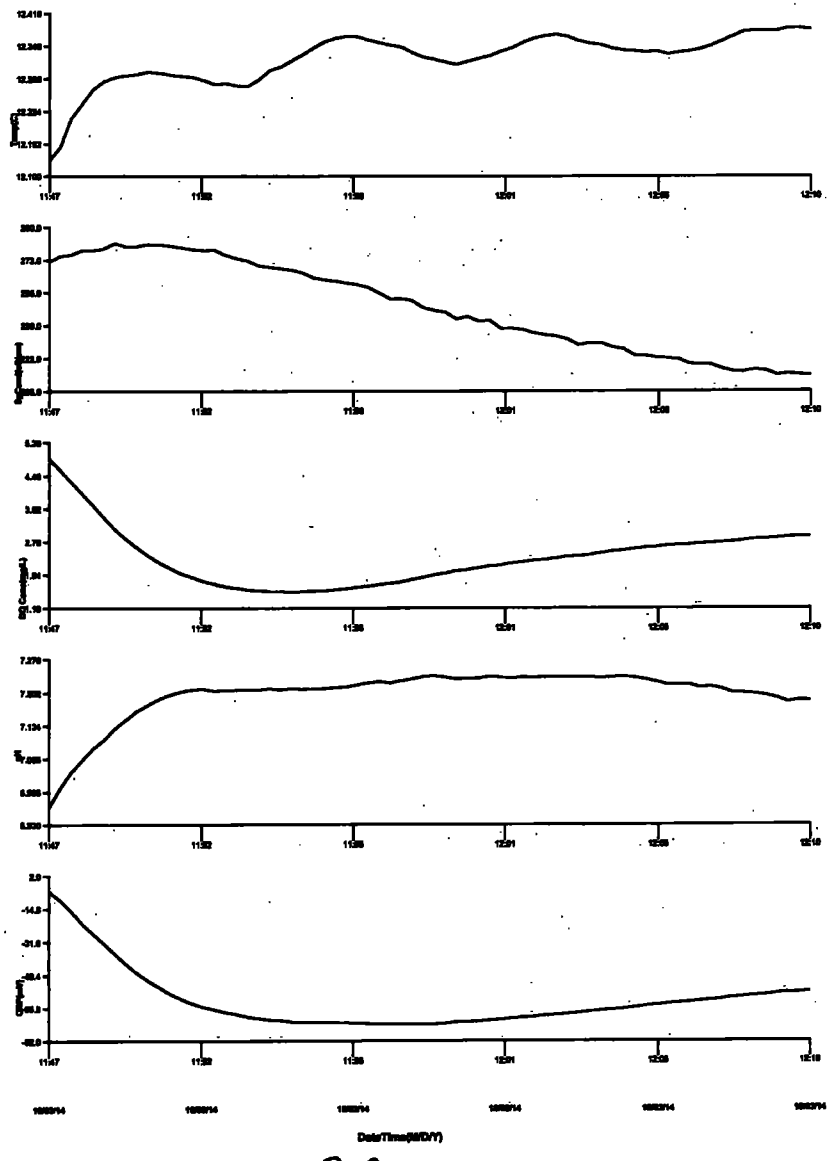
	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/03/14 11:47:29	12.13	272.4	4.91	6.96	-5
2	10/03/14 11:47:49	12.15	275.4	4.63	7.00	-10
3	10/03/14 11:48:09	12.21	276.0	4.32	7.04	-15
4	10/03/14 11:48:29	12.24	278.5	4.02	7.06	-22
5	10/03/14 11:48:49	12.27	278.4	3.71	7.09	-27
6	10/03/14 11:49:09	12.28	279.4	3.40	7.10	-32
7	10/03/14 11:49:29	12.29	282.1	3.09	7.13	-38
8	10/03/14 11:49:49	12.29	280.4	2.84	7.15	-43
9	10/03/14 11:50:09	12.29	280.6	2.61	7.16	-47
10	10/03/14 11:50:29	12.30	281.7	2.41	7.18	-51
11	10/03/14 11:50:49	12.30	281.4	2.22	7.19	-55
12	10/03/14 11:51:09	12.29	280.9	2.08	7.20	-58
13	10/03/14 11:51:29	12.29	280.0	1.95	7.21	-61
14	10/03/14 11:51:49	12.29	278.9	1.84	7.21	-63
15	10/03/14 11:52:09	12.28	278.5	1.74	7.21	-65
16	10/03/14 11:52:29	12.28	278.7	1.68	7.21	-67
17	10/03/14 11:52:49	12.28	275.9	1.61	7.21	-68
18	10/03/14 11:53:09	12.27	274.1	1.57	7.21	-69
19	10/03/14 11:53:29	12.27	272.8	1.52	7.21	-70
20	10/03/14 11:53:49	12.28	270.2	1.51	7.21	-71
21	10/03/14 11:54:09	12.30	269.3	1.48	7.21	-72
22	10/03/14 11:54:29	12.31	268.6	1.48	7.21	-72
23	10/03/14 11:54:49	12.32	267.9	1.47	7.21	-73
24	10/03/14 11:55:09	12.33	266.3	1.48	7.21	-73
25	10/03/14 11:55:29	12.35	263.8	1.49	7.21	-73

W-102S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/03/14 11:55:49	12.36	262.7	1.50	7.21	-73
27	10/03/14 11:56:09	12.36	261.9	1.52	7.21	-73
28	10/03/14 11:56:29	12.37	260.9	1.55	7.22	-74
29	10/03/14 11:56:49	12.37	260.1	1.59	7.22	-74
30	10/03/14 11:57:09	12.36	258.5	1.61	7.22	-74
31	10/03/14 11:57:29	12.36	255.4	1.66	7.23	-74
32	10/03/14 11:57:49	12.35	252.4	1.69	7.22	-74
33	10/03/14 11:58:09	12.35	252.7	1.73	7.23	-74
34	10/03/14 11:58:29	12.34	251.8	1.78	7.23	-74
35	10/03/14 11:58:49	12.33	247.9	1.83	7.24	-74
36	10/03/14 11:59:09	12.32	246.6	1.90	7.24	-74
37	10/03/14 11:59:29	12.32	245.6	1.94	7.24	-74
38	10/03/14 11:59:49	12.31	241.8	2.01	7.23	-73
39	10/03/14 12:00:09	12.32	243.3	2.03	7.23	-73
40	10/03/14 12:00:29	12.33	240.7	2.08	7.23	-73
41	10/03/14 12:00:49	12.33	241.2	2.13	7.24	-72
42	10/03/14 12:01:09	12.34	237.0	2.15	7.23	-72
43	10/03/14 12:01:29	12.35	237.1	2.21	7.23	-71
44	10/03/14 12:01:49	12.36	236.3	2.23	7.24	-71
45	10/03/14 12:02:09	12.36	234.6	2.27	7.23	-70
46	10/03/14 12:02:29	12.37	233.7	2.29	7.24	-70
47	10/03/14 12:02:49	12.37	233.0	2.32	7.24	-70
48	10/03/14 12:03:09	12.37	231.3	2.37	7.24	-69
49	10/03/14 12:03:29	12.36	228.3	2.38	7.24	-69
50	10/03/14 12:03:49	12.35	229.3	2.42	7.24	-68

W-102S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/03/14 12:04:09	12.35	229.3	2.47	7.23	-67
52	10/03/14 12:04:29	12.34	227.2	2.51	7.24	-67
53	10/03/14 12:04:49	12.34	226.3	2.54	7.24	-66
54	10/03/14 12:05:09	12.34	223.0	2.57	7.23	-66
55	10/03/14 12:05:29	12.34	222.9	2.60	7.23	-65
56	10/03/14 12:05:49	12.34	221.8	2.62	7.23	-64
57	10/03/14 12:06:09	12.33	221.5	2.65	7.22	-64
58	10/03/14 12:06:29	12.34	220.9	2.68	7.22	-63
59	10/03/14 12:06:49	12.34	218.6	2.68	7.22	-63
60	10/03/14 12:07:09	12.34	218.1	2.71	7.21	-62
61	10/03/14 12:07:29	12.35	218.0	2.72	7.22	-62
62	10/03/14 12:07:49	12.36	216.0	2.74	7.21	-61
63	10/03/14 12:08:09	12.37	214.5	2.75	7.20	-61
64	10/03/14 12:08:29	12.38	214.4	2.78	7.20	-60
65	10/03/14 12:08:49	12.38	215.2	2.82	7.20	-60
66	10/03/14 12:09:09	12.38	214.8	2.83	7.20	-59
67	10/03/14 12:09:29	12.38	212.7	2.85	7.19	-58
68	10/03/14 12:09:49	12.38	213.3	2.87	7.18	-58
69	10/03/14 12:10:09	12.38	212.9	2.89	7.19	-58
70	10/03/14 12:10:29	12.38	212.5	2.90	7.19	-57



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: OW-14-0914
Volatile bottles preserved by: ICE HCl
Sampled by: GF

Date: 10-6-14
Time: 12:40 pm
Weather: cool

Top of casing elevation: 646.1 ft
Depth to well bottom: 86.6 ft

Depth to static water level: 26.82 ft
Height of water column, H: 59.78 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .153 gal/ft. 9.1 gallons

Volume of water evacuated: 3.25 .36 gallons

Depth to static water level after purging: 33.70
Did well recover? YES NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:45		28.97	9.78	7.92	1.58	359	83.2	147.1
2	8:30		28.80	9.68	7.74	1.06	343	143	-73.8
3	8:53		28.73	9.77	7.76	1.06	342	148	-75.5
4	8:36		28.73	9.73	7.77	1.02	342	147	-78.1
5									
6									
7									
8									

Sample color: Dark
Sample turbidity: High
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature:

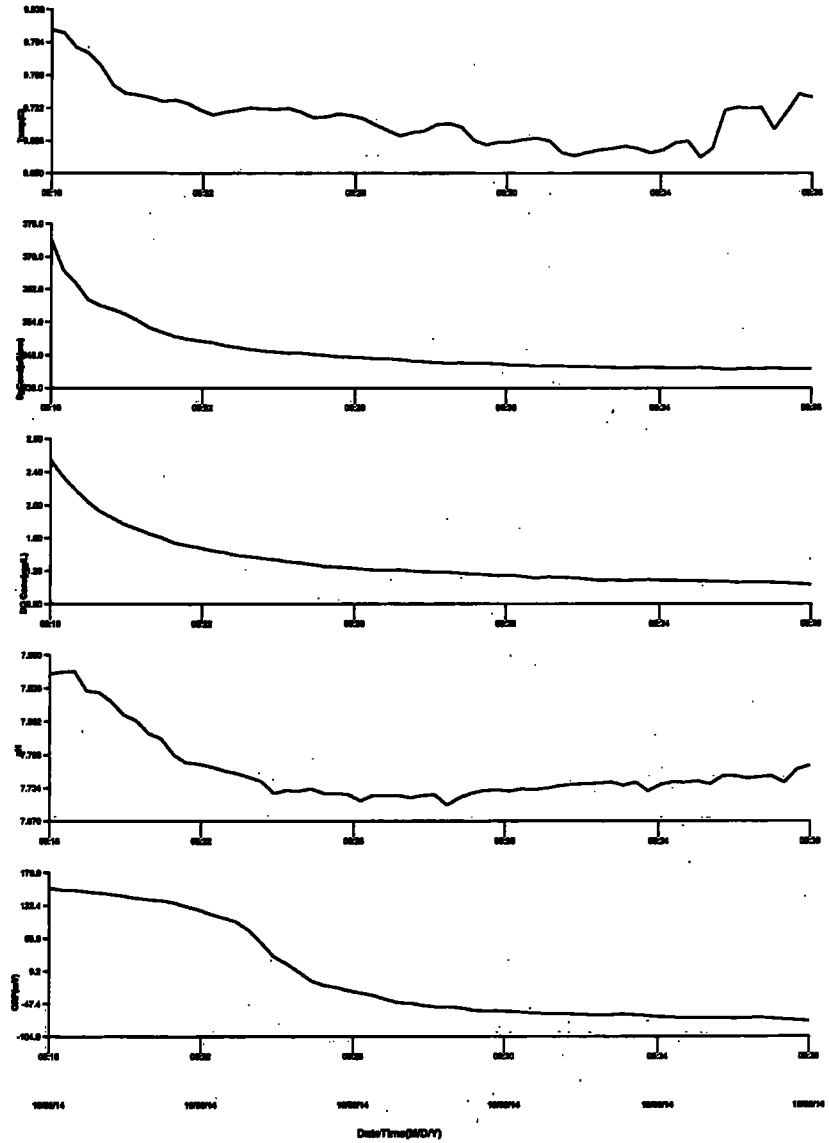
OW-14.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/06/14 08:18:39	9.81	374.6	2.56	7.95	155
2	10/06/14 08:18:59	9.81	366.7	2.36	7.96	151
3	10/06/14 08:19:19	9.79	363.5	2.20	7.96	150
4	10/06/14 08:19:39	9.78	359.4	2.05	7.92	148
5	10/06/14 08:19:59	9.77	357.8	1.93	7.92	145
6	10/06/14 08:20:19	9.75	356.9	1.84	7.90	143
7	10/06/14 08:20:39	9.74	355.8	1.76	7.87	140
8	10/06/14 08:20:59	9.74	354.2	1.71	7.86	137
9	10/06/14 08:21:19	9.73	352.4	1.65	7.84	134
10	10/06/14 08:21:39	9.73	351.4	1.60	7.83	132
11	10/06/14 08:21:59	9.73	350.3	1.53	7.80	129
12	10/06/14 08:22:19	9.73	349.7	1.50	7.78	122
13	10/06/14 08:22:39	9.72	349.2	1.47	7.78	117
14	10/06/14 08:22:59	9.71	348.9	1.44	7.77	108
15	10/06/14 08:23:19	9.72	348.1	1.42	7.77	102
16	10/06/14 08:23:39	9.72	347.6	1.38	7.76	95
17	10/06/14 08:23:59	9.72	347.2	1.36	7.75	80
18	10/06/14 08:24:19	9.72	346.8	1.34	7.74	58
19	10/06/14 08:24:39	9.72	346.6	1.32	7.72	34
20	10/06/14 08:24:59	9.72	346.3	1.30	7.73	22
21	10/06/14 08:25:19	9.72	346.3	1.28	7.73	6
22	10/06/14 08:25:39	9.71	346.0	1.27	7.73	-9
23	10/06/14 08:25:59	9.71	345.7	1.24	7.72	-17
24	10/06/14 08:26:19	9.71	345.4	1.23	7.72	-21
25	10/06/14 08:26:39	9.71	345.3	1.22	7.72	-26
26	10/06/14 08:26:59	9.71	345.1	1.21	7.71	-31
27	10/06/14 08:27:19	9.70	344.9	1.20	7.72	-35
28	10/06/14 08:27:39	9.70	344.9	1.20	7.72	-42
29	10/06/14 08:27:59	9.69	344.7	1.20	7.72	-48
30	10/06/14 08:28:19	9.69	344.3	1.18	7.71	-49
31	10/06/14 08:28:39	9.70	344.2	1.18	7.72	-52

OW-14.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
32	10/06/14 08:28:59	9.70	343.9	1.17	7.72	-55
33	10/06/14 08:29:19	9.70	343.8	1.17	7.70	-55
34	10/06/14 08:29:39	9.70	343.9	1.15	7.71	-56
35	10/06/14 08:29:59	9.69	343.7	1.14	7.72	-61
36	10/06/14 08:30:19	9.68	343.7	1.14	7.73	-62
37	10/06/14 08:30:39	9.68	343.6	1.13	7.73	-62
38	10/06/14 08:30:59	9.68	343.4	1.13	7.73	-63
39	10/06/14 08:31:19	9.69	343.2	1.11	7.73	-65
40	10/06/14 08:31:39	9.69	343.1	1.10	7.73	-66
41	10/06/14 08:31:59	9.68	343.1	1.11	7.73	-67
42	10/06/14 08:32:19	9.67	343.1	1.10	7.74	-67
43	10/06/14 08:32:39	9.67	343.0	1.10	7.74	-68
44	10/06/14 08:32:59	9.67	342.9	1.08	7.74	-68
45	10/06/14 08:33:19	9.67	342.8	1.07	7.74	-70
46	10/06/14 08:33:39	9.68	342.7	1.07	7.74	-69
47	10/06/14 08:33:59	9.68	342.7	1.07	7.74	-68
48	10/06/14 08:34:19	9.68	342.7	1.07	7.74	-69
49	10/06/14 08:34:39	9.67	342.8	1.08	7.73	-71
50	10/06/14 08:34:59	9.67	342.7	1.07	7.74	-73
51	10/06/14 08:35:19	9.68	342.6	1.06	7.74	-74
52	10/06/14 08:35:39	9.68	342.6	1.06	7.74	-74
53	10/06/14 08:35:59	9.67	342.7	1.06	7.75	-74
54	10/06/14 08:36:19	9.68	342.5	1.05	7.74	-75
55	10/06/14 08:36:39	9.72	342.2	1.05	7.76	-75
56	10/06/14 08:36:59	9.72	342.3	1.04	7.76	-75
57	10/06/14 08:37:19	9.72	342.4	1.04	7.75	-75
58	10/06/14 08:37:39	9.72	342.4	1.05	7.75	-74
59	10/06/14 08:37:59	9.70	342.5	1.04	7.76	-75
60	10/06/14 08:38:19	9.72	342.4	1.03	7.74	-77
61	10/06/14 08:38:39	9.74	342.3	1.03	7.77	-79
62	10/06/14 08:38:59	9.73	342.4	1.01	7.78	-80

OW-14.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: TW-A-0914
Volatile bottles preserved by: JB 09/19/14 0SCE 2725
Sampled by: GF

Date: 10-9-14
Time: 9:25 am
Weather: Rain

Top of casing elevation: 645.26 ft
Depth to well bottom: 71.58 ft
Depth to static water level: 17.65 ft
Height of water column, H: 53.93 ft
Diameter of well casing, D: 4.5 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .826 gal/ft. 44.5 gallons
Volume of water evacuated: 3.5 .08 gallons
Depth to static water level after purging: 17.73
Did well recover? YES NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:00		18.05	9.47	3.08	5.36	298	92.6	-11.3
2	9:15		17.97	9.45	3.05	.96	252	31.7	-34.2
3	9:30		17.95	9.47	3.06	.92	252	31.8	-50
4	9:21		17.95	9.48	3.04	.90	254	30.2	-78.7
5									
6									
7									
8									

Sample color: clear
Sample turbidity: low
Sample odor: YES NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 323

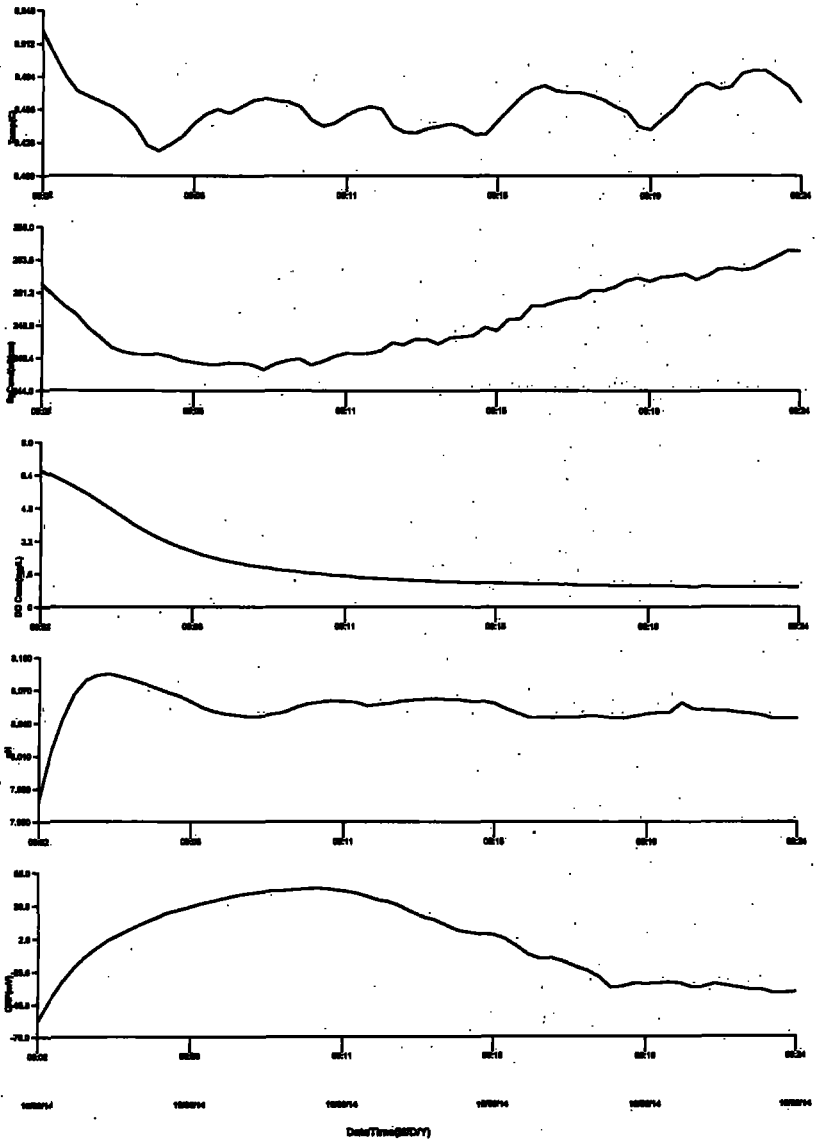
TW-A.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/06/14 09:02:35	9.52	251.9	6.65	7.97	-65
2	10/06/14 09:02:55	9.50	250.9	6.39	8.01	-48
3	10/06/14 09:03:15	9.48	250.2	6.11	8.04	-34
4	10/06/14 09:03:35	9.47	249.5	5.81	8.07	-22
5	10/06/14 09:03:55	9.47	248.5	5.48	8.08	-13
6	10/06/14 09:04:15	9.46	247.9	5.11	8.08	-5
7	10/06/14 09:04:35	9.46	247.1	4.74	8.09	1
8	10/06/14 09:04:55	9.45	246.7	4.36	8.08	6
9	10/06/14 09:05:15	9.44	246.6	3.98	8.08	11
10	10/06/14 09:05:35	9.42	246.5	3.65	8.08	15
11	10/06/14 09:05:55	9.42	246.6	3.35	8.07	19
12	10/06/14 09:06:15	9.43	246.4	3.10	8.07	23
13	10/06/14 09:06:35	9.43	246.1	2.85	8.07	26
14	10/06/14 09:06:55	9.44	246.0	2.66	8.06	28
15	10/06/14 09:07:15	9.45	245.8	2.45	8.05	31
16	10/06/14 09:07:35	9.46	245.8	2.31	8.05	33
17	10/06/14 09:07:55	9.45	245.9	2.16	8.05	35
18	10/06/14 09:08:15	9.46	245.9	2.06	8.05	38
19	10/06/14 09:08:35	9.46	245.8	1.95	8.05	39
20	10/06/14 09:08:55	9.46	245.4	1.86	8.05	40
21	10/06/14 09:09:15	9.46	245.9	1.74	8.05	41
22	10/06/14 09:09:35	9.46	246.1	1.69	8.05	42
23	10/06/14 09:09:55	9.46	246.2	1.62	8.06	42
24	10/06/14 09:10:15	9.45	245.8	1.55	8.06	43
25	10/06/14 09:10:35	9.44	246.0	1.52	8.06	43

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/06/14 09:10:55	9.44	246.4	1.45	8.06	43
27	10/06/14 09:11:15	9.45	246.6	1.42	8.06	41
28	10/06/14 09:11:35	9.45	246.6	1.36	8.06	40
29	10/06/14 09:11:55	9.46	246.6	1.31	8.06	38
30	10/06/14 09:12:15	9.46	246.8	1.30	8.06	34
31	10/06/14 09:12:35	9.44	247.4	1.26	8.06	33
32	10/06/14 09:12:55	9.44	247.3	1.24	8.06	29
33	10/06/14 09:13:15	9.44	247.7	1.21	8.06	25
34	10/06/14 09:13:35	9.44	247.7	1.20	8.06	20
35	10/06/14 09:13:55	9.44	247.4	1.17	8.06	18
36	10/06/14 09:14:15	9.44	247.8	1.14	8.06	13
37	10/06/14 09:14:35	9.44	247.9	1.12	8.06	9
38	10/06/14 09:14:55	9.43	248.0	1.12	8.06	8
39	10/06/14 09:15:15	9.43	248.6	1.09	8.06	6
40	10/06/14 09:15:35	9.44	248.3	1.09	8.06	6
41	10/06/14 09:15:55	9.46	249.2	1.06	8.05	3
42	10/06/14 09:16:15	9.47	249.2	1.06	8.05	-3
43	10/06/14 09:16:35	9.47	250.2	1.03	8.05	-10
44	10/06/14 09:16:55	9.48	250.2	1.03	8.05	-14
45	10/06/14 09:17:15	9.47	250.5	1.02	8.05	-13
46	10/06/14 09:17:35	9.47	250.8	1.02	8.05	-16
47	10/06/14 09:17:55	9.47	250.8	0.99	8.05	-20
48	10/06/14 09:18:15	9.47	251.4	0.97	8.05	-23
49	10/06/14 09:18:35	9.46	251.3	0.98	8.05	-29
50	10/06/14 09:18:55	9.46	251.6	0.95	8.05	-37

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/06/14 09:19:15	9.45	252.1	0.95	8.05	-36
52	10/06/14 09:19:35	9.44	252.3	0.95	8.05	-34
53	10/06/14 09:19:55	9.44	252.0	0.95	8.05	-34
54	10/06/14 09:20:15	9.45	252.4	0.95	8.05	-34
55	10/06/14 09:20:35	9.46	252.4	0.93	8.05	-33
56	10/06/14 09:20:55	9.47	252.6	0.91	8.06	-34
57	10/06/14 09:21:15	9.48	252.2	0.90	8.05	-37
58	10/06/14 09:21:35	9.48	252.4	0.91	8.05	-37
59	10/06/14 09:21:55	9.47	253.0	0.90	8.05	-34
60	10/06/14 09:22:15	9.47	253.0	0.91	8.05	-36
61	10/06/14 09:22:35	9.49	252.9	0.90	8.05	-37
62	10/06/14 09:22:55	9.49	253.0	0.89	8.05	-39
63	10/06/14 09:23:15	9.49	253.4	0.90	8.05	-39
64	10/06/14 09:23:35	9.48	253.9	0.89	8.04	-42
65	10/06/14 09:23:55	9.48	254.3	0.89	8.05	-41
66	10/06/14 09:24:15	9.46	254.3	0.88	8.04	-41

TW-A.DAT



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-26s-0914
Volatile bottles preserved by: JR 9/15/14 OSCT 2725
Sampled by: AP

Date: 10-6-14
Time: 10:15 am
Weather: Rain

Top of casing elevation: 643.91 ft Calculated top of casing: 643.94 ft

Depth to well bottom: 13.00 24.1 13.87 ft

Depth to static water level: ft Height of water column, H: .87 11.1 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 1.0 gallons

Volume of water evacuated: 3.5 3.5x gallons

Depth to static water level after purging: 13.06
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:10		13.56	10.83	7.50	252	322	18.1	2.4
2	10:25		13.50	10.39	7.45	1.51	322	5.73	20.4
3	10:28		13.54	10.91	7.45	1.55	322	6.03	22.5
4	10:31		13.55	10.97	7.46	1.54	322	5.94	23.3
5									
6									
7									
8									

Sample color: Slight Dk.
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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W-26S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/06/14 10:09:16	10.87	319.7	3.35	7.54	5
2	10/06/14 10:09:36	10.86	320.5	3.10	7.52	3
3	10/06/14 10:09:56	10.84	321.3	2.86	7.51	3
4	10/06/14 10:10:16	10.83	322.0	2.66	7.50	3
5	10/06/14 10:10:36	10.83	322.2	2.49	7.49	2
6	10/06/14 10:10:56	10.83	322.5	2.34	7.48	1
7	10/06/14 10:11:16	10.83	322.6	2.21	7.47	4
8	10/06/14 10:11:36	10.83	322.6	2.10	7.47	4
9	10/06/14 10:11:56	10.83	322.6	2.01	7.47	5
10	10/06/14 10:12:16	10.84	322.5	1.94	7.47	6
11	10/06/14 10:12:36	10.84	322.4	1.89	7.47	8
12	10/06/14 10:12:56	10.84	322.4	1.84	7.47	10
13	10/06/14 10:13:16	10.84	322.3	1.80	7.47	13
14	10/06/14 10:13:36	10.85	322.2	1.74	7.46	16
15	10/06/14 10:13:56	10.85	322.2	1.69	7.46	17
16	10/06/14 10:14:16	10.86	322.0	1.67	7.46	18
17	10/06/14 10:14:36	10.87	321.9	1.63	7.46	19
18	10/06/14 10:14:56	10.87	321.8	1.60	7.46	20
19	10/06/14 10:15:16	10.87	321.7	1.59	7.46	20
20	10/06/14 10:15:36	10.87	321.5	1.57	7.46	21
21	10/06/14 10:15:56	10.87	321.5	1.56	7.46	21
22	10/06/14 10:16:16	10.87	321.4	1.55	7.47	22
23	10/06/14 10:16:36	10.87	321.3	1.54	7.47	24
24	10/06/14 10:16:56	10.88	321.2	1.54	7.46	27
25	10/06/14 10:17:16	10.88	321.1	1.53	7.46	29

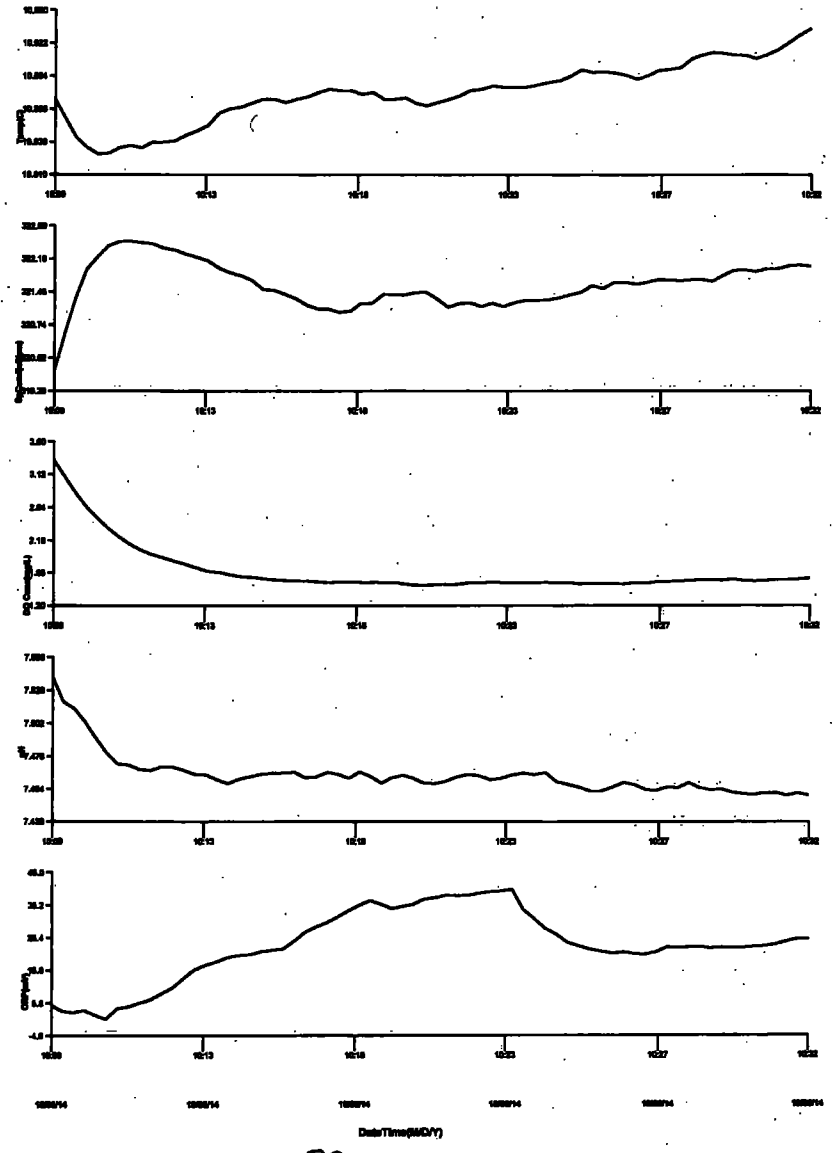
W-26S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/06/14 10:17:36	10.88	321.1	1.52	7.47	30
27	10/06/14 10:17:56	10.88	321.0	1.52	7.46	32
28	10/06/14 10:18:16	10.88	321.0	1.53	7.46	34
29	10/06/14 10:18:36	10.88	321.2	1.52	7.47	35
30	10/06/14 10:18:56	10.88	321.2	1.52	7.46	37
31	10/06/14 10:19:16	10.87	321.4	1.52	7.46	36
32	10/06/14 10:19:36	10.87	321.4	1.52	7.46	34
33	10/06/14 10:19:56	10.88	321.4	1.49	7.46	35
34	10/06/14 10:20:16	10.87	321.4	1.48	7.46	36
35	10/06/14 10:20:36	10.87	321.5	1.47	7.46	37
36	10/06/14 10:20:56	10.87	321.3	1.48	7.46	38
37	10/06/14 10:21:16	10.87	321.1	1.49	7.46	38
38	10/06/14 10:21:36	10.88	321.2	1.49	7.46	38
39	10/06/14 10:21:56	10.88	321.2	1.51	7.46	38
40	10/06/14 10:22:16	10.88	321.1	1.52	7.46	39
41	10/06/14 10:22:36	10.89	321.2	1.52	7.46	40
42	10/06/14 10:22:56	10.88	321.1	1.52	7.46	40
43	10/06/14 10:23:16	10.88	321.2	1.52	7.46	40
44	10/06/14 10:23:36	10.88	321.3	1.51	7.46	34
45	10/06/14 10:23:56	10.89	321.3	1.51	7.46	31
46	10/06/14 10:24:16	10.89	321.3	1.52	7.47	28
47	10/06/14 10:24:36	10.89	321.3	1.51	7.46	26
48	10/06/14 10:24:56	10.89	321.4	1.51	7.46	24
49	10/06/14 10:25:16	10.90	321.5	1.49	7.45	23
50	10/06/14 10:25:36	10.90	321.6	1.50	7.45	22

W-26S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/06/14 10:25:56	10.90	321.5	1.50	7.45	21
52	10/06/14 10:26:16	10.90	321.7	1.50	7.45	21
53	10/06/14 10:26:36	10.90	321.7	1.49	7.46	21
54	10/06/14 10:26:56	10.89	321.6	1.51	7.46	20
55	10/06/14 10:27:16	10.89	321.7	1.51	7.45	20
56	10/06/14 10:27:36	10.90	321.7	1.53	7.45	21
57	10/06/14 10:27:56	10.90	321.7	1.53	7.45	23
58	10/06/14 10:28:16	10.90	321.7	1.54	7.45	22
59	10/06/14 10:28:36	10.91	321.7	1.55	7.46	23
60	10/06/14 10:28:56	10.91	321.7	1.56	7.45	23
61	10/06/14 10:29:16	10.91	321.7	1.55	7.45	22
62	10/06/14 10:29:36	10.91	321.8	1.55	7.45	22
63	10/06/14 10:29:56	10.91	321.9	1.56	7.45	22
64	10/06/14 10:30:16	10.91	322.0	1.55	7.45	22
65	10/06/14 10:30:36	10.91	321.9	1.54	7.45	23
66	10/06/14 10:30:56	10.91	322.0	1.55	7.45	23
67	10/06/14 10:31:16	10.92	322.0	1.56	7.45	23
68	10/06/14 10:31:36	10.92	322.0	1.56	7.45	24
69	10/06/14 10:31:56	10.93	322.1	1.56	7.45	25
70	10/06/14 10:32:16	10.94	322.0	1.58	7.45	25

W-26S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-26d-0914
Volatile bottles preserved by: JB 09/18/14 0847 2725
Sampled by: SP

Date: 10-6-14
Time: 11:10 am
Weather: Rain

Top of casing elevation: 644.10 ft Calculated top of casing: 644.13 ft

Depth to well bottom: 13.12 65.73 ft

Depth to static water level: ft Height of water column, H: 52.61 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 4.8 gallons

Volume of water evacuated: 3 .63wc gallons

Depth to static water level after purging: 13.12
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:45		13.39	10.01	8.06	3.41	198	53.7	-184.5
2	11		13.50	9.89	8.10	.79	200	73.6	-189.7
3	11:03		13.50	9.92	8.11	.75	199	74.4	-182.3
4	11:06		13.50	9.98	8.13	.73	200	76.9	-174.9
5									
6									
7									
8									

Sample color: Slightly Cloudy
Sample turbidity: mod
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 333

W-26d-0914.xls

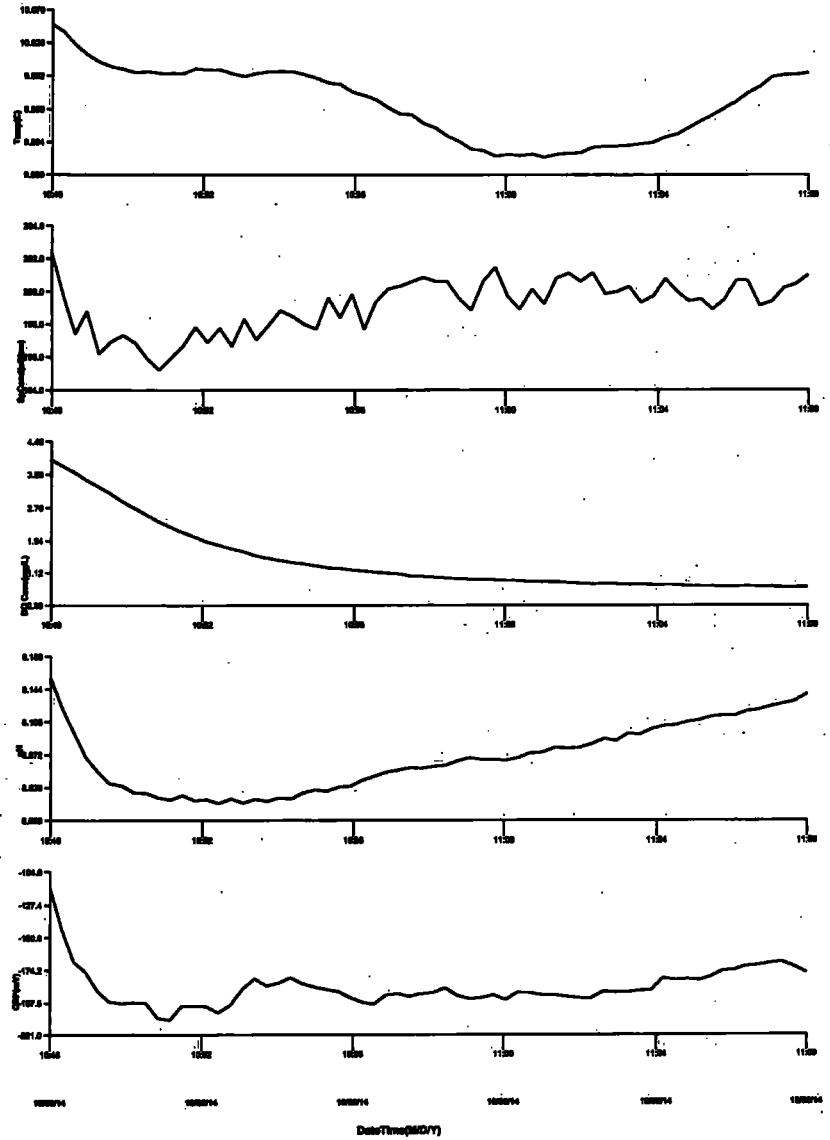
W-26D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/06/14 10:48:06	10.05	202.4	3.97	8.16	-114
2	10/06/14 10:48:26	10.04	199.7	3.80	8.12	-145
3	10/06/14 10:48:46	10.02	197.4	3.65	8.10	-168
4	10/06/14 10:49:06	10.01	198.8	3.45	8.07	-176
5	10/06/14 10:49:26	10.00	196.1	3.29	8.05	-190
6	10/06/14 10:49:46	9.99	196.8	3.12	8.04	-197
7	10/06/14 10:50:06	9.99	197.3	2.92	8.04	-199
8	10/06/14 10:50:26	9.99	196.8	2.75	8.03	-198
9	10/06/14 10:50:46	9.99	195.8	2.57	8.03	-198
10	10/06/14 10:51:06	9.99	195.1	2.41	8.02	-210
11	10/06/14 10:51:26	9.99	195.9	2.26	8.02	-211
12	10/06/14 10:51:46	9.99	196.6	2.13	8.03	-201
13	10/06/14 10:52:06	9.99	197.8	2.02	8.02	-201
14	10/06/14 10:52:26	9.99	196.8	1.90	8.02	-201
15	10/06/14 10:52:46	9.99	197.7	1.80	8.02	-206
16	10/06/14 10:53:06	9.98	196.6	1.71	8.02	-200
17	10/06/14 10:53:26	9.98	198.3	1.64	8.02	-188
18	10/06/14 10:53:46	9.99	197.0	1.54	8.02	-181
19	10/06/14 10:54:06	9.99	197.9	1.47	8.02	-186
20	10/06/14 10:54:26	9.99	198.8	1.42	8.02	-184
21	10/06/14 10:54:46	9.99	198.5	1.36	8.02	-180
22	10/06/14 10:55:06	9.98	198.0	1.33	8.03	-185
23	10/06/14 10:55:26	9.98	197.7	1.28	8.03	-187
24	10/06/14 10:55:46	9.97	199.6	1.23	8.03	-189
25	10/06/14 10:56:06	9.97	198.4	1.20	8.04	-190
26	10/06/14 10:56:26	9.96	199.8	1.16	8.04	-195
27	10/06/14 10:56:46	9.96	197.6	1.14	8.04	-198
28	10/06/14 10:57:06	9.95	199.4	1.11	8.05	-199
29	10/06/14 10:57:26	9.94	200.2	1.08	8.05	-193
30	10/06/14 10:57:46	9.93	200.3	1.06	8.05	-192
31	10/06/14 10:58:06	9.93	200.6	1.01	8.06	-194
32	10/06/14 10:58:26	9.92	200.9	0.99	8.06	-192

W-26D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	10/06/14 10:58:46	9.91	200.6	0.97	8.06	-191
34	10/06/14 10:59:06	9.90	200.6	0.96	8.06	-188
35	10/06/14 10:59:26	9.89	199.5	0.94	8.06	-193
36	10/06/14 10:59:46	9.88	198.8	0.92	8.07	-196
37	10/06/14 11:00:06	9.88	200.6	0.92	8.07	-195
38	10/06/14 11:00:26	9.87	201.5	0.91	8.07	-193
39	10/06/14 11:00:46	9.88	199.7	0.90	8.06	-196
40	10/06/14 11:01:06	9.87	198.9	0.88	8.07	-191
41	10/06/14 11:01:26	9.88	200.2	0.87	8.07	-191
42	10/06/14 11:01:46	9.87	199.2	0.86	8.07	-193
43	10/06/14 11:02:06	9.88	200.8	0.86	8.08	-193
44	10/06/14 11:02:26	9.88	201.1	0.84	8.08	-194
45	10/06/14 11:02:46	9.88	200.6	0.82	8.08	-195
46	10/06/14 11:03:06	9.89	201.1	0.81	8.08	-195
47	10/06/14 11:03:26	9.89	199.9	0.81	8.09	-190
48	10/06/14 11:03:46	9.89	200.0	0.81	8.09	-191
49	10/06/14 11:04:06	9.89	200.3	0.79	8.09	-191
50	10/06/14 11:04:26	9.89	199.3	0.79	8.09	-190
51	10/06/14 11:04:46	9.89	199.7	0.78	8.10	-189
52	10/06/14 11:05:06	9.90	200.8	0.78	8.10	-180
53	10/06/14 11:05:26	9.90	200.0	0.77	8.10	-182
54	10/06/14 11:05:46	9.91	199.4	0.76	8.11	-181
55	10/06/14 11:06:06	9.92	199.5	0.75	8.11	-182
56	10/06/14 11:06:26	9.93	198.9	0.75	8.11	-180
57	10/06/14 11:06:46	9.94	199.5	0.73	8.11	-175
58	10/06/14 11:07:06	9.95	200.7	0.74	8.11	-175
59	10/06/14 11:07:26	9.96	200.7	0.74	8.12	-172
60	10/06/14 11:07:46	9.97	199.1	0.74	8.12	-171
61	10/06/14 11:08:06	9.98	199.4	0.73	8.12	-169
62	10/06/14 11:08:26	9.98	200.2	0.71	8.13	-169
63	10/06/14 11:08:46	9.98	200.5	0.71	8.13	-172
64	10/06/14 11:09:06	9.99	201.0	0.72	8.14	-177

W-26D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-7s-0914
Volatile bottles preserved by: JB 09/18/14 0SCL 2725
Sampled by: SF

Date: 10-6-14
Time: 12:25 pm
Weather: Cloudy

Top of casing elevation: 652.92 ft Depth to well bottom: 21.2 ft

Depth to static water level: 10.35 ft Height of water column, H: 10.85 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 1 gallons

Volume of water evacuated: 2.75 2.75 gal gallons

Depth to static water level after purging: 10.35
Did well recover? YES NO

Method of evacuation: Peristaltic Purge Flow Rate: 400 mL/min

Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12		10.50	12.47	7.62	2.33	351	22.9	-178
2	12:15		10.47	12.68	7.62	1.16	358	1.72	-145.0
3	12:18		10.47	12.70	7.62	1.15	359	1.26	-140.4
4	12:21			12.75	7.63	1.07	358	1.02	-137
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 337

W-7s-0712.xls

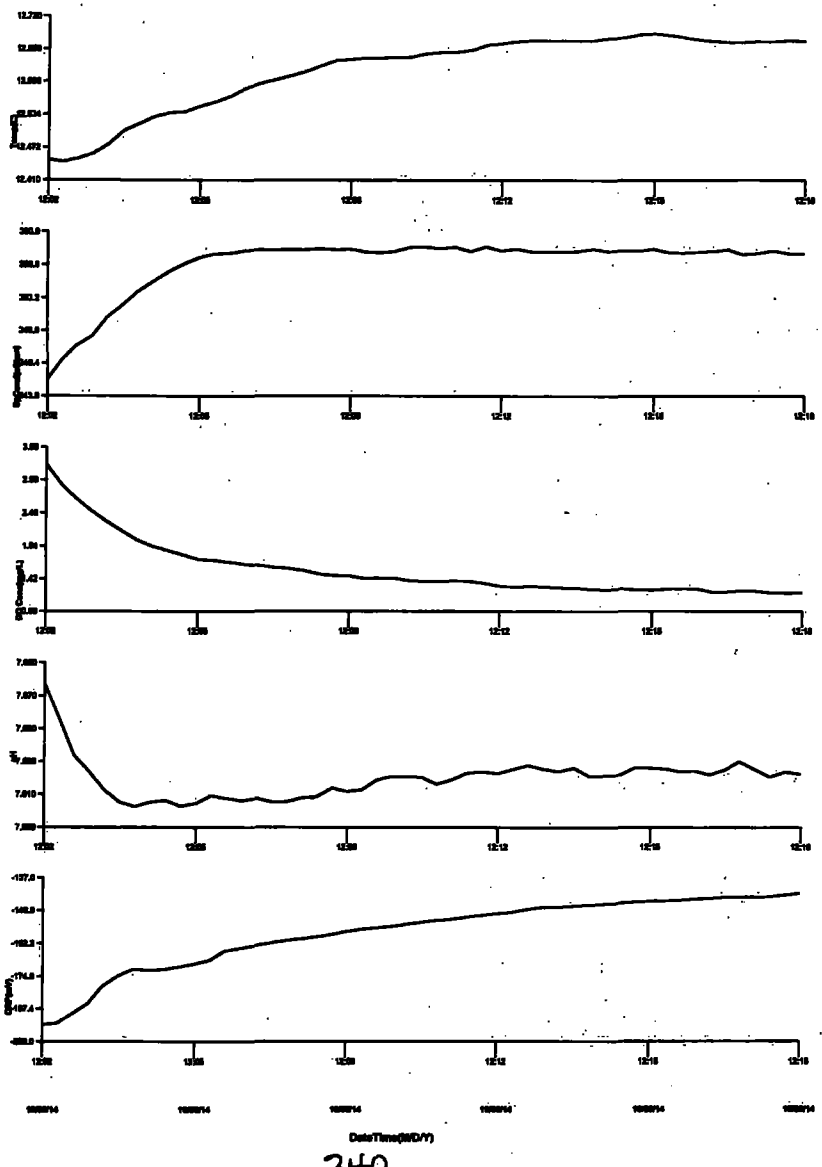
W-7S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/06/14 12:02:04	12.45	344.5	3.24	7.68	-194
2	10/06/14 12:02:24	12.44	346.7	2.93	7.66	-194
3	10/06/14 12:02:44	12.45	348.2	2.69	7.63	-190
4	10/06/14 12:03:04	12.46	349.2	2.49	7.62	-186
5	10/06/14 12:03:24	12.48	351.2	2.33	7.61	-179
6	10/06/14 12:03:44	12.50	352.4	2.17	7.60	-175
7	10/06/14 12:04:04	12.52	353.9	2.03	7.60	-172
8	10/06/14 12:04:24	12.53	354.9	1.93	7.60	-173
9	10/06/14 12:04:44	12.54	356.0	1.86	7.61	-172
10	10/06/14 12:05:04	12.54	356.7	1.78	7.60	-171
11	10/06/14 12:05:24	12.55	357.4	1.71	7.60	-170
12	10/06/14 12:05:44	12.56	357.8	1.70	7.61	-169
13	10/06/14 12:06:04	12.57	357.9	1.67	7.61	-165
14	10/06/14 12:06:24	12.58	358.1	1.63	7.61	-164
15	10/06/14 12:06:44	12.59	358.2	1.61	7.61	-163
16	10/06/14 12:07:04	12.60	358.2	1.58	7.60	-162
17	10/06/14 12:07:24	12.61	358.3	1.56	7.60	-161
18	10/06/14 12:07:44	12.62	358.3	1.53	7.61	-161
19	10/06/14 12:08:04	12.63	358.4	1.48	7.61	-160
20	10/06/14 12:08:24	12.64	358.3	1.45	7.61	-159
21	10/06/14 12:08:44	12.64	358.3	1.45	7.61	-158
22	10/06/14 12:09:04	12.64	358.0	1.41	7.61	-157
23	10/06/14 12:09:24	12.64	357.9	1.41	7.62	-156
24	10/06/14 12:09:44	12.64	358.1	1.41	7.62	-156
25	10/06/14 12:10:04	12.64	358.5	1.37	7.62	-155
26	10/06/14 12:10:24	12.65	358.5	1.36	7.62	-154

W-7S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
27	10/06/14 12:10:44	12.65	358.4	1.36	7.62	-153
28	10/06/14 12:11:04	12.65	358.5	1.37	7.62	-153
29	10/06/14 12:11:24	12.66	358.1	1.36	7.62	-152
30	10/06/14 12:11:44	12.67	358.6	1.33	7.62	-151
31	10/06/14 12:12:04	12.67	358.2	1.29	7.62	-151
32	10/06/14 12:12:24	12.67	358.3	1.27	7.62	-150
33	10/06/14 12:12:44	12.68	358.1	1.28	7.63	-149
34	10/06/14 12:13:04	12.68	358.0	1.28	7.62	-148
35	10/06/14 12:13:24	12.68	358.1	1.26	7.62	-148
36	10/06/14 12:13:44	12.68	358.1	1.25	7.63	-148
37	10/06/14 12:14:04	12.68	358.3	1.23	7.62	-147
38	10/06/14 12:14:24	12.68	358.1	1.23	7.62	-147
39	10/06/14 12:14:44	12.68	358.2	1.24	7.62	-147
40	10/06/14 12:15:04	12.69	358.1	1.23	7.63	-146
41	10/06/14 12:15:24	12.69	358.3	1.22	7.63	-146
42	10/06/14 12:15:44	12.69	358.0	1.23	7.62	-146
43	10/06/14 12:16:04	12.68	357.9	1.24	7.62	-146
44	10/06/14 12:16:24	12.68	358.0	1.24	7.62	-145
45	10/06/14 12:16:44	12.68	358.1	1.19	7.62	-145
46	10/06/14 12:17:04	12.67	358.3	1.19	7.62	-144
47	10/06/14 12:17:24	12.67	357.8	1.20	7.63	-144
48	10/06/14 12:17:44	12.67	357.9	1.20	7.62	-144
49	10/06/14 12:18:04	12.67	358.1	1.17	7.62	-144
50	10/06/14 12:18:24	12.68	357.9	1.17	7.62	-143
51	10/06/14 12:18:44	12.68	357.8	1.17	7.62	-143

W-7S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-7d-0914
Volatile bottles preserved by: JB 09/18/14 0SCF 2725
Sampled by: fp

Date: 10-6-14
Time: 1:10 pm
Weather: p. Sunny

Top of casing elevation: 652.24 ft
Depth to well bottom: 59.6 ft
Depth to static water level: 8.08 ft
Height of water column, H: 51.52 ft
Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .092 gal/ft. gallons
Volume of water evacuated: No water / well damaged gallons

Depth to static water level after purging:
Did well recover? YES NO

Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:45		12.00	11.96	9.32	3.36	385	9.47	6.8
2	1								
3	1:03								
4	1:06								
5									
6									
7									
8									

Sample color: Dirty
Sample turbidity: High
Sample odor: YES NO
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.: Collapsed no flow

Signature: 341

W-7d-0912.xls

Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: K-28d-0914
Volatile bottles preserved by: JB 09/18/14 0SCF 2725
Sampled by: fp

Date: 10-7-14
Time: 8:40 am
Weather: Sunny

Top of casing elevation: 651.42 ft
Depth to well bottom: 116 ft
Depth to static water level: 7.86 ft
Height of water column, H: 108.2 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 16.55 gallons
Volume of water evacuated: 3.5 .21 gallons

Depth to static water level after purging: 7.80
Did well recover? YES NO

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	8:15		8.20	11.53	7.99	1.97	214	99.4	-95.2
2	8:36		8.20	11.40	7.39	.83	243	8.16	-92.8
3	8:33		8.20	11.40	7.38	.82	244	8.60	-95.8
4	8:36		8.20	11.38	7.40	.80	244	8.01	-96.6
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES NO
Other observations:
PID reading:
Comments:

Additional comments on methodology, etc.:

Signature: 342

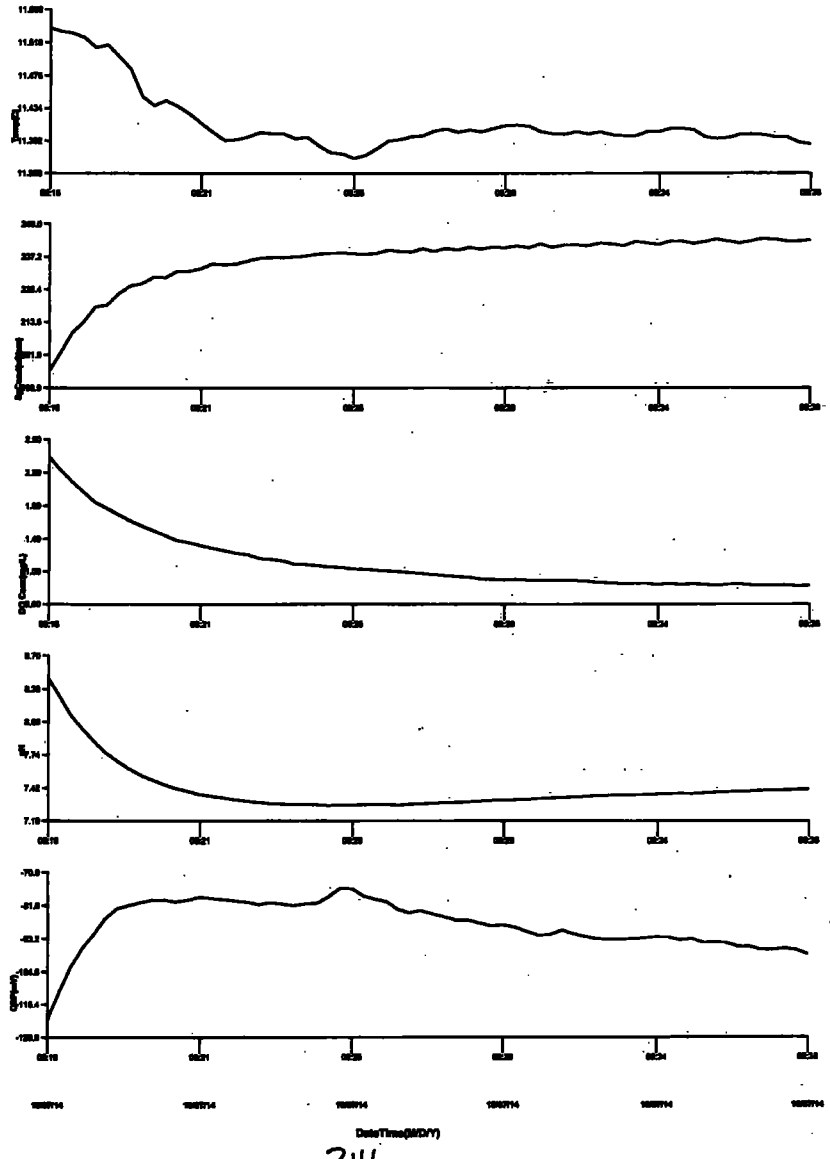
K-28d-0912.xls

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/07/14 08:16:45	11.54	195.5	2.41	8.49	-123
2	10/07/14 08:17:05	11.53	202.2	2.24	8.31	-113
3	10/07/14 08:17:25	11.53	209.4	2.10	8.12	-103
4	10/07/14 08:17:45	11.52	213.4	1.97	7.99	-97
5	10/07/14 08:18:05	11.51	218.9	1.85	7.86	-92
6	10/07/14 08:18:25	11.52	219.5	1.77	7.75	-86
7	10/07/14 08:18:45	11.50	223.6	1.69	7.67	-83
8	10/07/14 08:19:05	11.48	226.6	1.62	7.60	-81
9	10/07/14 08:19:25	11.45	227.5	1.56	7.53	-80
10	10/07/14 08:19:45	11.44	229.9	1.49	7.49	-79
11	10/07/14 08:20:05	11.44	229.8	1.44	7.44	-79
12	10/07/14 08:20:25	11.44	232.1	1.38	7.40	-80
13	10/07/14 08:20:45	11.43	232.1	1.35	7.38	-79
14	10/07/14 08:21:05	11.41	233.1	1.31	7.34	-78
15	10/07/14 08:21:25	11.40	234.8	1.28	7.33	-79
16	10/07/14 08:21:45	11.39	234.5	1.25	7.31	-79
17	10/07/14 08:22:05	11.39	234.7	1.21	7.29	-80
18	10/07/14 08:22:25	11.40	235.9	1.20	7.28	-80
19	10/07/14 08:22:45	11.40	236.9	1.15	7.27	-81
20	10/07/14 08:23:05	11.40	237.1	1.13	7.25	-80
21	10/07/14 08:23:25	11.40	237.2	1.12	7.25	-81
22	10/07/14 08:23:45	11.39	237.4	1.08	7.25	-81
23	10/07/14 08:24:05	11.39	237.8	1.07	7.25	-81
24	10/07/14 08:24:25	11.38	238.4	1.06	7.24	-81
25	10/07/14 08:24:45	11.37	238.8	1.04	7.23	-78

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/07/14 08:25:05	11.37	238.8	1.03	7.24	-75
27	10/07/14 08:25:25	11.37	238.6	1.02	7.24	-75
28	10/07/14 08:25:45	11.37	238.3	1.01	7.24	-78
29	10/07/14 08:26:05	11.38	238.7	1.00	7.24	-79
30	10/07/14 08:26:25	11.39	239.8	0.99	7.25	-80
31	10/07/14 08:26:45	11.39	239.4	0.98	7.24	-83
32	10/07/14 08:27:05	11.40	239.1	0.97	7.25	-84
33	10/07/14 08:27:25	11.40	240.3	0.96	7.25	-83
34	10/07/14 08:27:45	11.40	239.4	0.95	7.26	-84
35	10/07/14 08:28:05	11.41	240.5	0.93	7.26	-86
36	10/07/14 08:28:25	11.40	239.8	0.92	7.27	-87
37	10/07/14 08:28:45	11.40	240.8	0.91	7.27	-87
38	10/07/14 08:29:05	11.40	240.2	0.89	7.28	-88
39	10/07/14 08:29:25	11.41	240.9	0.88	7.28	-89
40	10/07/14 08:29:45	11.41	240.6	0.88	7.29	-88
41	10/07/14 08:30:05	11.41	241.3	0.88	7.29	-89
42	10/07/14 08:30:25	11.41	240.6	0.87	7.30	-91
43	10/07/14 08:30:45	11.40	242.1	0.87	7.30	-92
44	10/07/14 08:31:05	11.40	240.8	0.87	7.31	-92
45	10/07/14 08:31:25	11.40	241.7	0.87	7.32	-90
46	10/07/14 08:31:45	11.40	241.8	0.87	7.32	-92
47	10/07/14 08:32:05	11.40	241.5	0.86	7.33	-93
48	10/07/14 08:32:25	11.40	242.5	0.85	7.33	-93
49	10/07/14 08:32:45	11.40	242.1	0.84	7.34	-94
50	10/07/14 08:33:05	11.40	241.5	0.83	7.34	-94

K-28D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/07/14 08:33:25	11.40	242.9	0.83	7.34	-93
52	10/07/14 08:33:45	11.40	242.5	0.83	7.35	-93
53	10/07/14 08:34:05	11.40	242.0	0.82	7.35	-93
54	10/07/14 08:34:25	11.41	243.1	0.83	7.35	-93
55	10/07/14 08:34:45	11.41	243.1	0.82	7.36	-94
56	10/07/14 08:35:05	11.40	242.2	0.83	7.35	-93
57	10/07/14 08:35:25	11.40	242.9	0.82	7.36	-95
58	10/07/14 08:35:45	11.39	243.8	0.81	7.37	-95
59	10/07/14 08:36:05	11.39	243.2	0.82	7.37	-95
60	10/07/14 08:36:25	11.40	242.4	0.83	7.37	-96
61	10/07/14 08:36:45	11.40	243.2	0.82	7.38	-96
62	10/07/14 08:37:05	11.40	244.0	0.81	7.38	-97
63	10/07/14 08:37:25	11.40	243.7	0.81	7.39	-97
64	10/07/14 08:37:45	11.40	243.1	0.81	7.39	-97
65	10/07/14 08:38:05	11.39	243.1	0.80	7.39	-97
66	10/07/14 08:38:25	11.39	243.5	0.80	7.40	-99



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-17s-0914
Volatile bottles preserved by: HCl 09/18/14 0SCI 2725
Sampled by: AP

Date: 10-7-14
Time: 9:35 am
Weather: Sunny / windy

Top of casing elevation: 650.67 ft Calculated top of casing: 650.70 ft

Depth to well bottom: 13.10 23.73 ft

Depth to static water level: ft Height of water column, H: 10.63 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 1 gallons

Volume of water evacuated: 3 3 vol gallons

Depth to static water level after purging: 13.35
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	9:10		13.80	11.75	6.84	1.85	375	97.1	<111.3
2	9:25		13.30	11.58	6.97	1.25	383	6.24	-83.7
3	9:28		13.33	11.57	6.99	1.31	384	7.15	-75.5
4	9:31		13.35	11.57	6.99	1.29	384	6.03	-66.8
5									
6									
7									
8									

Sample color: dark
Sample turbidity: none
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 347

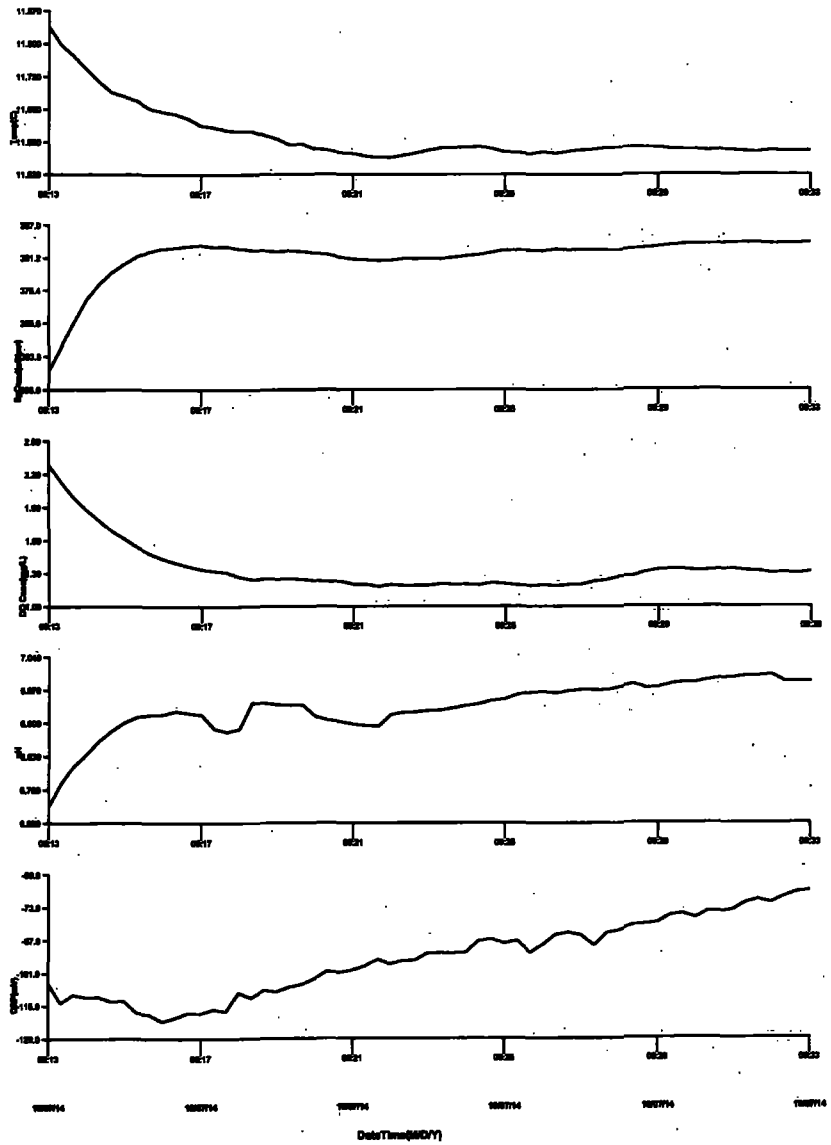
W-17S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/07/14 09:13:59	11.84	361.1	2.30	6.72	-105
2	10/07/14 09:14:19	11.80	365.3	2.13	6.77	-114
3	10/07/14 09:14:39	11.78	369.4	1.99	6.81	-111
4	10/07/14 09:14:59	11.75	373.6	1.88	6.83	-112
5	10/07/14 09:15:19	11.72	376.4	1.78	6.86	-111
6	10/07/14 09:15:39	11.70	378.6	1.68	6.88	-114
7	10/07/14 09:15:59	11.69	380.1	1.61	6.90	-113
8	10/07/14 09:16:19	11.68	381.5	1.53	6.91	-118
9	10/07/14 09:16:39	11.66	382.4	1.47	6.92	-119
10	10/07/14 09:16:59	11.65	382.9	1.42	6.92	-122
11	10/07/14 09:17:19	11.65	383.1	1.39	6.93	-121
12	10/07/14 09:17:39	11.64	383.4	1.36	6.92	-119
13	10/07/14 09:17:59	11.62	383.6	1.32	6.92	-119
14	10/07/14 09:18:19	11.62	383.2	1.31	6.89	-117
15	10/07/14 09:18:39	11.61	383.3	1.29	6.88	-118
16	10/07/14 09:18:59	11.61	382.9	1.25	6.89	-110
17	10/07/14 09:19:19	11.61	382.7	1.23	6.94	-112
18	10/07/14 09:19:39	11.60	382.6	1.24	6.94	-109
19	10/07/14 09:19:59	11.59	382.4	1.23	6.94	-109
20	10/07/14 09:20:19	11.58	382.6	1.24	6.94	-107
21	10/07/14 09:20:39	11.58	382.4	1.23	6.94	-106
22	10/07/14 09:20:59	11.57	382.1	1.22	6.91	-104
23	10/07/14 09:21:19	11.57	381.8	1.21	6.91	-101
24	10/07/14 09:21:39	11.56	381.4	1.21	6.90	-101
25	10/07/14 09:21:59	11.56	381.0	1.19	6.90	-100
26	10/07/14 09:22:19	11.56	380.9	1.19	6.89	-98
27	10/07/14 09:22:39	11.55	380.8	1.17	6.89	-95
28	10/07/14 09:22:59	11.55	380.8	1.18	6.92	-97
29	10/07/14 09:23:19	11.56	381.1	1.18	6.92	-96
30	10/07/14 09:23:39	11.56	381.1	1.17	6.92	-96
31	10/07/14 09:23:59	11.57	381.2	1.18	6.93	-93

W-17S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
32	10/07/14 09:24:19	11.57	381.1	1.19	6.93	-93
33	10/07/14 09:24:39	11.58	381.4	1.19	6.93	-93
34	10/07/14 09:24:59	11.58	381.6	1.19	6.94	-92
35	10/07/14 09:25:19	11.58	381.8	1.18	6.94	-87
36	10/07/14 09:25:39	11.57	382.2	1.20	6.95	-87
37	10/07/14 09:25:59	11.57	382.6	1.19	6.95	-88
38	10/07/14 09:26:19	11.56	382.7	1.18	6.96	-87
39	10/07/14 09:26:39	11.56	382.6	1.17	6.97	-92
40	10/07/14 09:26:59	11.57	382.5	1.18	6.97	-89
41	10/07/14 09:27:19	11.56	382.9	1.17	6.96	-85
42	10/07/14 09:27:39	11.57	382.7	1.19	6.97	-84
43	10/07/14 09:27:59	11.57	382.8	1.19	6.97	-85
44	10/07/14 09:28:19	11.57	382.8	1.22	6.97	-89
45	10/07/14 09:28:39	11.58	382.7	1.23	6.97	-84
46	10/07/14 09:28:59	11.58	382.8	1.26	6.98	-83
47	10/07/14 09:29:19	11.58	382.9	1.26	6.98	-80
48	10/07/14 09:29:39	11.58	383.0	1.30	6.97	-80
49	10/07/14 09:29:59	11.58	383.3	1.32	6.98	-79
50	10/07/14 09:30:19	11.57	383.5	1.32	6.98	-76
51	10/07/14 09:30:39	11.57	383.7	1.32	6.99	-76
52	10/07/14 09:30:59	11.57	383.8	1.31	6.99	-77
53	10/07/14 09:31:19	11.57	383.8	1.32	6.99	-75
54	10/07/14 09:31:39	11.57	383.8	1.32	7.00	-75
55	10/07/14 09:31:59	11.57	383.9	1.32	7.00	-74
56	10/07/14 09:32:19	11.57	384.0	1.31	7.00	-71
57	10/07/14 09:32:39	11.57	384.0	1.30	7.00	-69
58	10/07/14 09:32:59	11.57	383.8	1.29	7.00	-71
59	10/07/14 09:33:19	11.57	383.9	1.29	6.99	-68
60	10/07/14 09:33:39	11.57	383.9	1.28	6.99	-66
61	10/07/14 09:33:59	11.57	384.0	1.30	6.99	-65

W-17S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: UW-1-0914
Volatile bottles preserved by: JB 04/08/14 0SCT 2725
Sampled by: FP

Date: 10-7-14
Time: 10:40 am
Weather: Breezy

Top of casing elevation: 648.27 ft Calculated top of casing: 648.30 ft

Depth to well bottom: 12.05 63.28 ft

Depth to static water level: ft Height of water column, H: 51.23 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 4.7 gallons

Volume of water evacuated: 3.25 4 bwc gallons

Depth to static water level after purging: 12.05
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10:15		12.69	10.36	7.95	2.49	259	19.0	-70.0
2	10:30		12.61	10.25	7.83	.91	243	14.7	-135.2
3	10:33		12.65	10.26	7.84	.84	241	13.5	-137.6
4	10:36		12.65	10.26	7.86	.81	240	12.5	-134.7
5									
6									
7									
8									

Sample color: Dirty
Sample turbidity: High
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

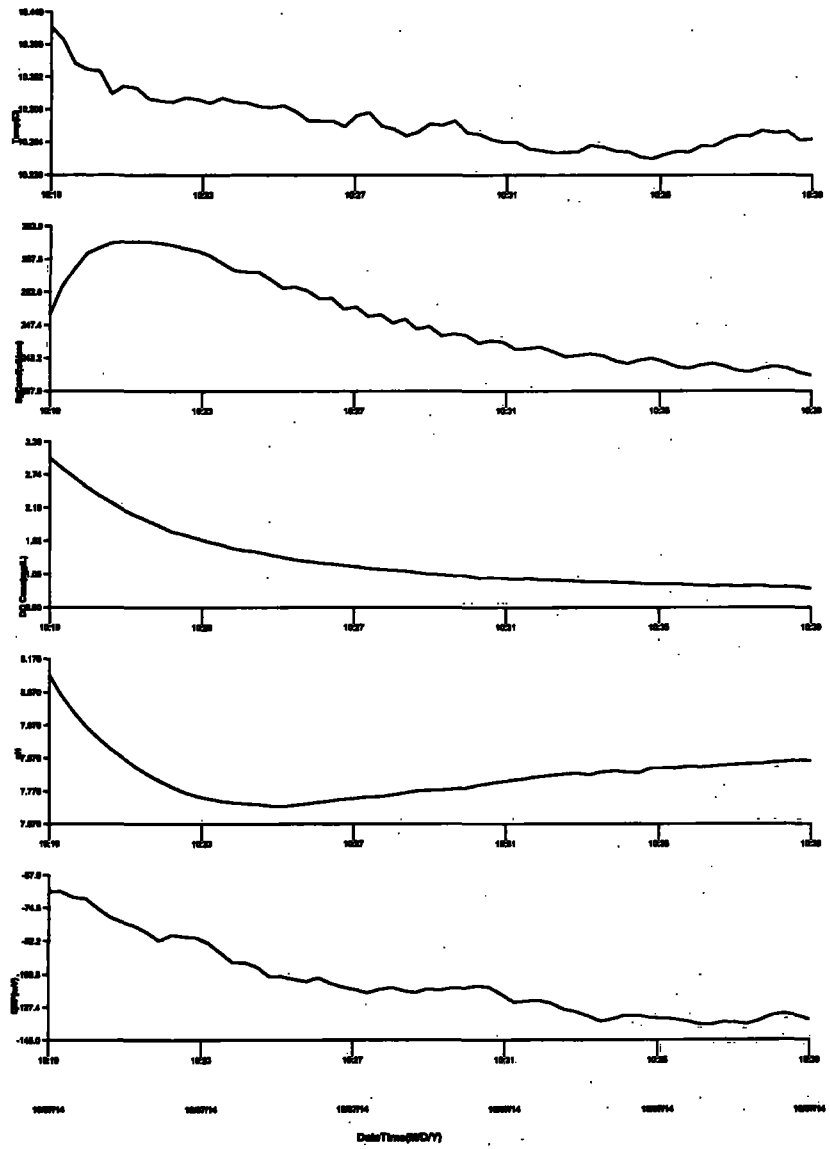
UW-1.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/07/14 10:19:07	10.42	248.9	3.04	8.12	-65
2	10/07/14 10:19:27	10.40	253.4	2.86	8.06	-65
3	10/07/14 10:19:47	10.37	256.3	2.71	8.01	-69
4	10/07/14 10:20:07	10.36	258.8	2.54	7.97	-69
5	10/07/14 10:20:27	10.36	259.7	2.40	7.93	-75
6	10/07/14 10:20:47	10.33	260.6	2.27	7.90	-79
7	10/07/14 10:21:07	10.34	260.7	2.15	7.87	-82
8	10/07/14 10:21:27	10.34	260.8	2.05	7.84	-84
9	10/07/14 10:21:47	10.32	260.7	1.95	7.82	-88
10	10/07/14 10:22:07	10.32	260.5	1.86	7.80	-92
11	10/07/14 10:22:27	10.32	260.2	1.77	7.78	-89
12	10/07/14 10:22:47	10.32	259.7	1.71	7.76	-90
13	10/07/14 10:23:07	10.32	259.2	1.65	7.75	-91
14	10/07/14 10:23:27	10.32	258.6	1.59	7.74	-94
15	10/07/14 10:23:47	10.32	257.3	1.54	7.74	-99
16	10/07/14 10:24:07	10.32	256.1	1.47	7.73	-104
17	10/07/14 10:24:27	10.32	255.8	1.44	7.73	-104
18	10/07/14 10:24:47	10.31	255.8	1.42	7.73	-106
19	10/07/14 10:25:07	10.31	254.6	1.36	7.72	-111
20	10/07/14 10:25:27	10.31	253.3	1.32	7.72	-111
21	10/07/14 10:25:47	10.30	253.4	1.28	7.72	-113
22	10/07/14 10:26:07	10.29	252.8	1.26	7.73	-114
23	10/07/14 10:26:27	10.29	251.5	1.23	7.73	-112
24	10/07/14 10:26:47	10.29	251.6	1.21	7.74	-115
25	10/07/14 10:27:07	10.28	249.9	1.19	7.74	-117
26	10/07/14 10:27:27	10.30	250.2	1.17	7.74	-118
27	10/07/14 10:27:47	10.30	248.7	1.14	7.75	-120
28	10/07/14 10:28:07	10.28	249.0	1.11	7.75	-118
29	10/07/14 10:28:27	10.28	247.6	1.10	7.76	-117
30	10/07/14 10:28:47	10.27	248.3	1.09	7.76	-119
31	10/07/14 10:29:07	10.28	246.6	1.07	7.77	-120
32	10/07/14 10:29:27	10.29	247.1	1.04	7.77	-118

UW-1.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
33	10/07/14 10:29:47	10.29	245.6	1.03	7.77	-119
34	10/07/14 10:30:07	10.29	245.8	1.01	7.77	-117
35	10/07/14 10:30:27	10.28	245.7	1.01	7.78	-118
36	10/07/14 10:30:47	10.27	244.4	0.97	7.78	-116
37	10/07/14 10:31:07	10.27	244.8	0.97	7.79	-117
38	10/07/14 10:31:27	10.26	244.6	0.97	7.80	-121
39	10/07/14 10:31:47	10.26	243.5	0.95	7.80	-125
40	10/07/14 10:32:07	10.25	243.6	0.96	7.81	-125
41	10/07/14 10:32:27	10.25	243.8	0.95	7.81	-124
42	10/07/14 10:32:47	10.25	243.1	0.94	7.82	-126
43	10/07/14 10:33:07	10.25	242.3	0.93	7.82	-129
44	10/07/14 10:33:27	10.25	242.4	0.92	7.82	-131
45	10/07/14 10:33:47	10.26	242.7	0.91	7.82	-133
46	10/07/14 10:34:07	10.26	242.4	0.90	7.83	-136
47	10/07/14 10:34:27	10.25	241.6	0.90	7.83	-134
48	10/07/14 10:34:47	10.25	241.2	0.89	7.83	-133
49	10/07/14 10:35:07	10.24	241.7	0.88	7.82	-133
50	10/07/14 10:35:27	10.24	242.0	0.87	7.84	-134
51	10/07/14 10:35:47	10.25	241.5	0.87	7.84	-134
52	10/07/14 10:36:07	10.25	240.6	0.87	7.84	-135
53	10/07/14 10:36:27	10.25	240.3	0.86	7.84	-136
54	10/07/14 10:36:47	10.26	240.9	0.84	7.84	-137
55	10/07/14 10:37:07	10.26	241.2	0.83	7.84	-138
56	10/07/14 10:37:27	10.27	240.7	0.84	7.85	-136
57	10/07/14 10:37:47	10.27	240.0	0.83	7.85	-136
58	10/07/14 10:38:07	10.27	239.8	0.83	7.85	-137
59	10/07/14 10:38:27	10.28	240.3	0.84	7.85	-135
60	10/07/14 10:38:47	10.27	240.7	0.81	7.86	-132
61	10/07/14 10:39:07	10.28	240.4	0.82	7.86	-131
62	10/07/14 10:39:27	10.27	239.7	0.82	7.86	-133
63	10/07/14 10:39:47	10.27	239.3	0.79	7.86	-135

UW-1.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-17d-0914
Volatile bottles preserved by: JB 09/16/14 0822 2725
Sampled by: GP

Date: 10-7-14
Time: 11:25 am
Weather: Breezy

Top of casing elevation: 650.63 ft Calculated top of casing: 650.66 ft

Depth to well bottom: 13.22 55.63 ft

Depth to static water level: ft Height of water column, H: 42.41 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 3.9 gallons

Volume of water evacuated: 3.25 .83uc gallons

Depth to static water level after purging: 13.30
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	11:06		15.31	11.12	7.34	2.79	298	62.6	-47.1
2	11:15		15.00	10.83	7.65	.91	329	24.0	-101.8
3	11:18		14.95	10.87	7.67	.88	329	23.2	-97.6
4	11:21		15.02	10.88	7.61	.87	328	23.5	-92.6
5									
6									
7									
8									

Sample color: slightly Dirty
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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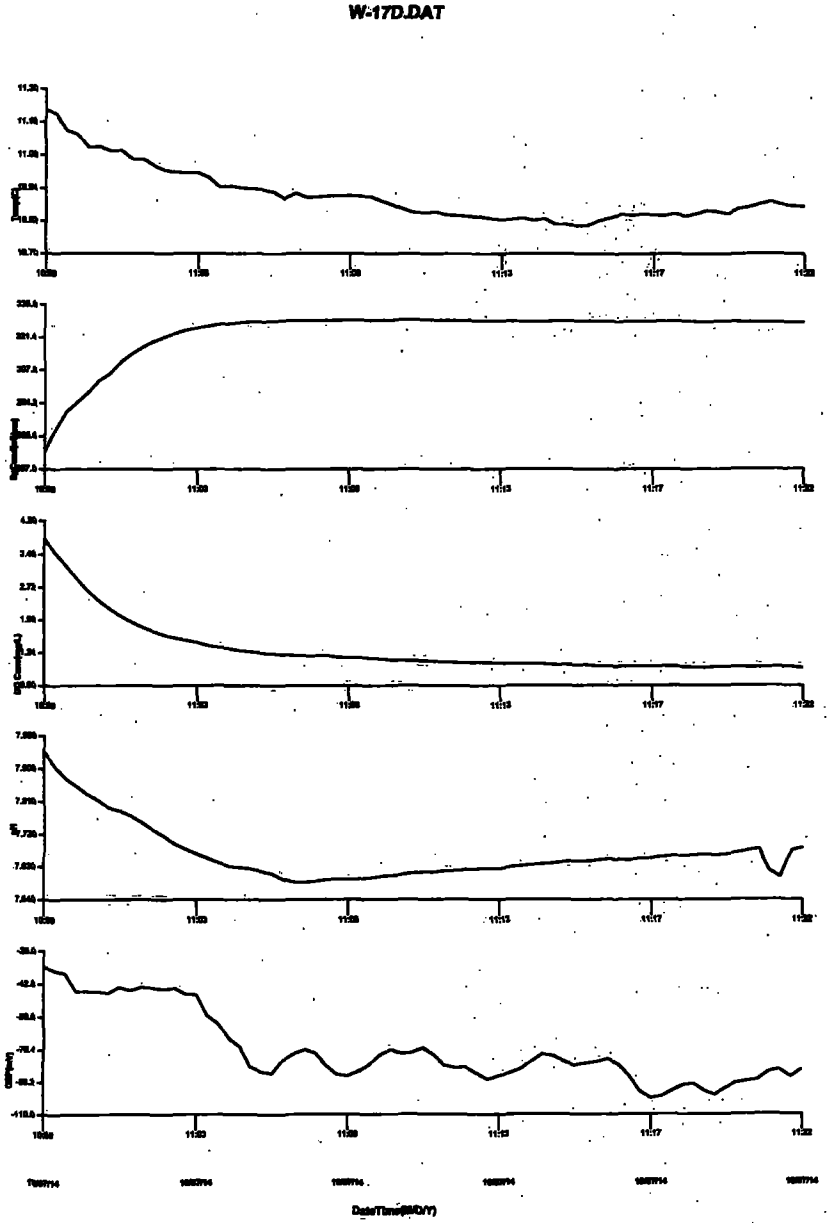
W-17d-0912.xls

W-17D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/07/14 10:59:13	11.23	273.4	3.84	7.95	-33
2	10/07/14 10:59:33	11.21	283.0	3.52	7.91	-36
3	10/07/14 10:59:53	11.15	290.3	3.22	7.87	-37
4	10/07/14 11:00:13	11.14	294.3	2.94	7.85	-46
5	10/07/14 11:00:33	11.09	298.3	2.65	7.83	-47
6	10/07/14 11:00:53	11.09	303.2	2.43	7.81	-47
7	10/07/14 11:01:13	11.07	306.2	2.22	7.79	-47
8	10/07/14 11:01:33	11.08	310.9	2.06	7.78	-44
9	10/07/14 11:01:53	11.04	314.3	1.93	7.77	-46
10	10/07/14 11:02:13	11.04	317.2	1.80	7.75	-44
11	10/07/14 11:02:33	11.02	319.8	1.70	7.73	-44
12	10/07/14 11:02:53	11.00	321.8	1.62	7.71	-45
13	10/07/14 11:03:13	11.00	323.3	1.55	7.69	-45
14	10/07/14 11:03:33	10.99	324.6	1.50	7.67	-48
15	10/07/14 11:03:53	10.99	325.5	1.45	7.66	-48
16	10/07/14 11:04:13	10.98	326.3	1.38	7.65	-59
17	10/07/14 11:04:33	10.94	327.1	1.33	7.64	-63
18	10/07/14 11:04:53	10.94	327.4	1.30	7.63	-71
19	10/07/14 11:05:13	10.94	327.9	1.25	7.62	-75
20	10/07/14 11:05:33	10.94	328.2	1.24	7.62	-85
21	10/07/14 11:05:53	10.93	328.4	1.20	7.61	-88
22	10/07/14 11:06:13	10.92	328.6	1.19	7.61	-89
23	10/07/14 11:06:33	10.90	328.8	1.17	7.59	-82
24	10/07/14 11:06:53	10.92	328.7	1.15	7.58	-79
25	10/07/14 11:07:13	10.90	328.8	1.14	7.58	-77

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/07/14 11:07:33	10.90	328.8	1.14	7.59	-79
27	10/07/14 11:07:53	10.91	328.8	1.14	7.59	-85
28	10/07/14 11:08:13	10.91	328.9	1.11	7.59	-90
29	10/07/14 11:08:33	10.91	328.9	1.09	7.59	-91
30	10/07/14 11:08:53	10.91	328.9	1.10	7.59	-88
31	10/07/14 11:09:13	10.91	328.8	1.08	7.60	-85
32	10/07/14 11:09:33	10.89	329.0	1.06	7.60	-79
33	10/07/14 11:09:53	10.87	329.1	1.04	7.60	-77
34	10/07/14 11:10:13	10.86	329.1	1.03	7.60	-79
35	10/07/14 11:10:33	10.85	329.2	1.02	7.61	-78
36	10/07/14 11:10:53	10.85	329.1	1.02	7.61	-76
37	10/07/14 11:11:13	10.85	328.9	1.00	7.61	-79
38	10/07/14 11:11:33	10.84	328.9	1.00	7.62	-85
39	10/07/14 11:11:53	10.84	328.8	0.99	7.62	-86
40	10/07/14 11:12:13	10.83	328.8	0.98	7.62	-86
41	10/07/14 11:12:33	10.83	328.8	0.99	7.62	-89
42	10/07/14 11:12:53	10.83	328.8	0.98	7.62	-92
43	10/07/14 11:13:13	10.82	328.8	0.98	7.62	-91
44	10/07/14 11:13:33	10.82	328.6	0.97	7.63	-89
45	10/07/14 11:13:53	10.83	328.5	0.96	7.63	-87
46	10/07/14 11:14:13	10.82	328.5	0.95	7.63	-83
47	10/07/14 11:14:33	10.82	328.4	0.95	7.63	-79
48	10/07/14 11:14:53	10.80	328.6	0.93	7.64	-80
49	10/07/14 11:15:13	10.80	328.6	0.93	7.64	-83
50	10/07/14 11:15:33	10.80	328.6	0.92	7.64	-85

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/07/14 11:15:53	10.80	328.6	0.93	7.64	-84
52	10/07/14 11:16:13	10.82	328.5	0.91	7.65	-83
53	10/07/14 11:16:33	10.83	328.5	0.90	7.65	-82
54	10/07/14 11:16:53	10.84	328.4	0.89	7.65	-84
55	10/07/14 11:17:13	10.84	328.5	0.91	7.65	-90
56	10/07/14 11:17:33	10.84	328.6	0.91	7.65	-98
57	10/07/14 11:17:53	10.84	328.5	0.91	7.65	-102
58	10/07/14 11:18:13	10.84	328.6	0.91	7.66	-101
59	10/07/14 11:18:33	10.84	328.6	0.90	7.66	-98
60	10/07/14 11:18:53	10.83	328.5	0.89	7.66	-95
61	10/07/14 11:19:13	10.84	328.4	0.88	7.66	-95
62	10/07/14 11:19:33	10.85	328.3	0.87	7.66	-98
63	10/07/14 11:19:53	10.85	328.4	0.88	7.66	-101
64	10/07/14 11:20:13	10.84	328.5	0.88	7.66	-97
65	10/07/14 11:20:33	10.86	328.3	0.88	7.67	-94
66	10/07/14 11:20:53	10.87	328.3	0.88	7.67	-93
67	10/07/14 11:21:13	10.88	328.1	0.88	7.68	-93
68	10/07/14 11:21:33	10.89	328.1	0.87	7.62	-89
69	10/07/14 11:21:53	10.88	328.2	0.89	7.60	-87
70	10/07/14 11:22:13	10.87	328.2	0.88	7.67	-91
71	10/07/14 11:22:33	10.87	328.1	0.85	7.68	-87



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Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-18s-0914
Volatile bottles preserved by: JB 01/18/14 03CI 2725
Sampled by: GP

Date: 10-7-14
Time: 12:35 pm
Weather: Breezy

Top of casing elevation: 648.33 ft Calculated top of casing: 648.35 ft

Depth to well bottom: 10.17 24.12 ft

Depth to static water level: ft Height of water column, H: 13.95 ft

Diameter of well casing, D: 1.25 inches
(approx. diameter) Schedule 80

Volume of water column: H ft x .092 gal/ft. 1.3 gallons

Volume of water evacuated: 3 2.3wc gallons

Depth to static water level after purging: 10.17
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:10		10.28	12.63	6.52	3.98	266	33.2	-97.1
2	12:25		10.36	12.51	6.47	1.10	256	8.45	-68.2
3	12:28		10.27	12.47	6.41	1.08	256	8.52	-65.2
4	12:31		10.30	12.44	6.40	1.07	256	8.02	-63.0
5									
6									
7									
8									

Sample color: Slightly dirty
Sample turbidity: Low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature:

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W-18S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/07/14 12:12:17	12.67	273.6	4.66	6.52	-82
2	10/07/14 12:12:37	12.66	267.7	4.45	6.53	-89
3	10/07/14 12:12:57	12.64	267.4	4.25	6.53	-91
4	10/07/14 12:13:17	12.63	265.4	4.06	6.52	-93
5	10/07/14 12:13:37	12.62	263.6	3.86	6.51	-93
6	10/07/14 12:13:57	12.62	263.4	3.70	6.50	-91
7	10/07/14 12:14:17	12.60	263.0	3.52	6.49	-90
8	10/07/14 12:14:37	12.60	264.5	3.35	6.49	-91
9	10/07/14 12:14:57	12.59	262.2	3.18	6.49	-92
10	10/07/14 12:15:17	12.58	263.8	3.01	6.48	-91
11	10/07/14 12:15:37	12.58	259.7	2.87	6.47	-91
12	10/07/14 12:15:57	12.58	260.8	2.72	6.47	-91
13	10/07/14 12:16:17	12.59	261.0	2.60	6.46	-91
14	10/07/14 12:16:37	12.59	260.0	2.47	6.45	-90
15	10/07/14 12:16:57	12.59	260.2	2.36	6.45	-89
16	10/07/14 12:17:17	12.60	261.5	2.26	6.45	-89
17	10/07/14 12:17:37	12.60	258.5	2.15	6.44	-89
18	10/07/14 12:17:57	12.60	260.0	2.05	6.44	-88
19	10/07/14 12:18:17	12.60	259.0	1.98	6.45	-86
20	10/07/14 12:18:37	12.60	258.8	1.90	6.44	-86
21	10/07/14 12:18:57	12.59	259.8	1.84	6.44	-86
22	10/07/14 12:19:17	12.58	258.5	1.78	6.44	-86
23	10/07/14 12:19:37	12.57	258.7	1.74	6.44	-85
24	10/07/14 12:19:57	12.57	259.2	1.69	6.43	-83
25	10/07/14 12:20:17	12.55	259.0	1.65	6.43	-83

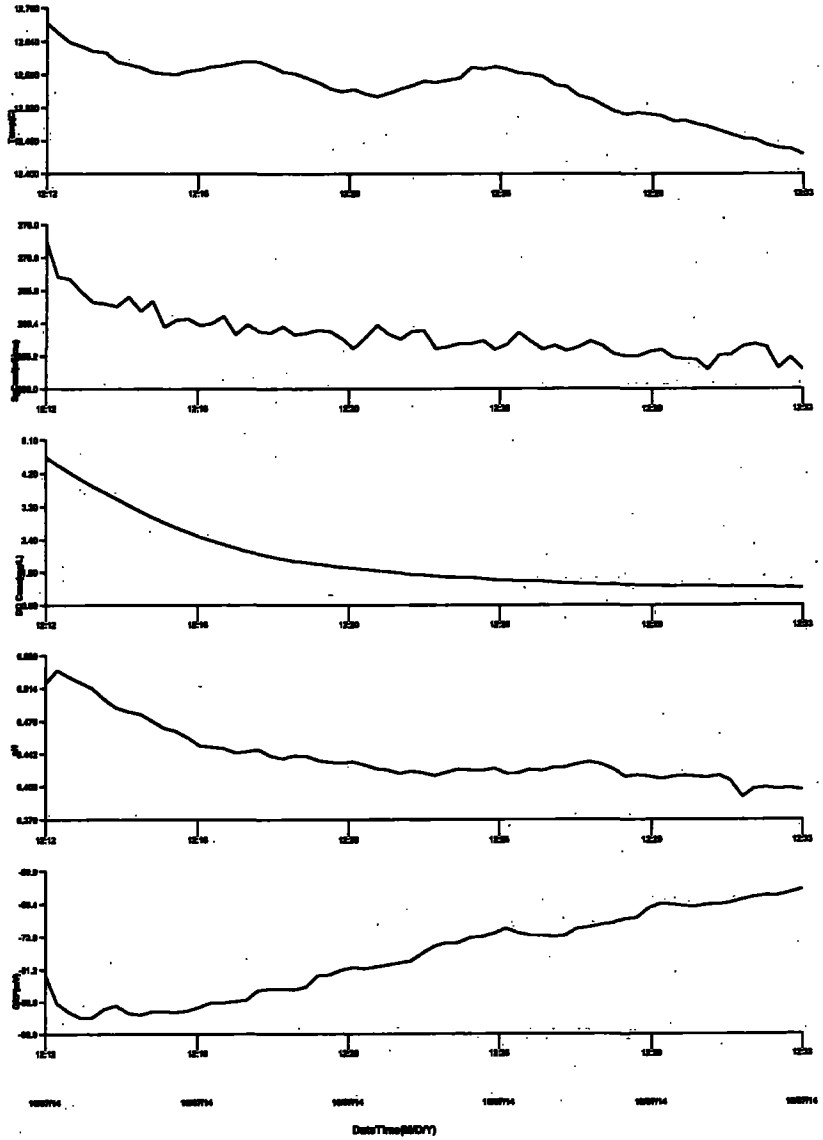
W-18S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
26	10/07/14 12:20:37	12.55	257.8	1.60	6.43	-81
27	10/07/14 12:20:57	12.55	256.2	1.58	6.43	-81
28	10/07/14 12:21:17	12.54	257.9	1.54	6.43	-81
29	10/07/14 12:21:37	12.54	260.0	1.51	6.42	-81
30	10/07/14 12:21:57	12.55	258.5	1.48	6.42	-80
31	10/07/14 12:22:17	12.55	257.7	1.44	6.42	-80
32	10/07/14 12:22:37	12.56	259.0	1.40	6.42	-79
33	10/07/14 12:22:57	12.57	259.2	1.38	6.42	-78
34	10/07/14 12:23:17	12.57	256.2	1.35	6.42	-76
35	10/07/14 12:23:37	12.57	256.5	1.33	6.42	-75
36	10/07/14 12:23:57	12.57	257.0	1.32	6.42	-75
37	10/07/14 12:24:17	12.59	257.0	1.31	6.42	-74
38	10/07/14 12:24:37	12.59	257.5	1.28	6.42	-74
39	10/07/14 12:24:57	12.59	256.0	1.25	6.43	-73
40	10/07/14 12:25:17	12.59	256.9	1.24	6.42	-72
41	10/07/14 12:25:37	12.58	258.8	1.22	6.42	-73
42	10/07/14 12:25:57	12.58	257.3	1.22	6.42	-74
43	10/07/14 12:26:17	12.58	256.0	1.21	6.42	-74
44	10/07/14 12:26:37	12.56	256.7	1.19	6.43	-74
45	10/07/14 12:26:57	12.56	255.8	1.16	6.43	-74
46	10/07/14 12:27:17	12.54	256.4	1.14	6.43	-72
47	10/07/14 12:27:37	12.54	257.4	1.14	6.43	-72
48	10/07/14 12:27:57	12.52	256.6	1.12	6.43	-71
49	10/07/14 12:28:17	12.51	255.3	1.13	6.42	-71
50	10/07/14 12:28:37	12.51	255.0	1.11	6.42	-70

W-18S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
51	10/07/14 12:28:57	12.51	254.9	1.11	6.42	-69
52	10/07/14 12:29:17	12.51	255.7	1.10	6.42	-67
53	10/07/14 12:29:37	12.50	256.0	1.09	6.41	-66
54	10/07/14 12:29:57	12.49	254.7	1.08	6.42	-66
55	10/07/14 12:30:17	12.49	254.5	1.09	6.42	-67
56	10/07/14 12:30:37	12.49	254.4	1.09	6.42	-67
57	10/07/14 12:30:57	12.48	252.8	1.09	6.42	-66
58	10/07/14 12:31:17	12.48	255.1	1.07	6.42	-66
59	10/07/14 12:31:37	12.47	255.2	1.07	6.41	-66
60	10/07/14 12:31:57	12.46	256.6	1.06	6.39	-65
61	10/07/14 12:32:17	12.46	256.9	1.05	6.40	-65
62	10/07/14 12:32:37	12.45	256.4	1.06	6.40	-64
63	10/07/14 12:32:57	12.44	253.0	1.03	6.40	-64
64	10/07/14 12:33:17	12.44	254.7	1.04	6.40	-64
65	10/07/14 12:33:37	12.43	252.9	1.02	6.40	-63

W-18S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-101d-0914
Volatile bottles preserved by: HS 09/16/14 OSCT 2825
Sampled by: GP

Date: 10-7-14
Time: 1:15 pm
Weather: Breezy

Top of casing elevation: 649.68 ft
Depth to well bottom: 147 ft

Depth to static water level: 8.23 ft
Height of water column, H: 138.77 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40

Volume of water column: H ft x .174 gal/ft. 24 gallons

Volume of water evacuated: 3.25 .14 gal/ft gallons

Depth to static water level after purging: 11.75
Did well recover? (YES) NO slow

3.12' = .54 gals
→ 83% recovery

Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	12:50		9.80	12.15	6.96	Well	267	197	-8.0
2	1:05		11.95	11.94	7.08	[illegible]	257	208	-65.7
3	1:08		12.06	11.97	7.16	.62	257	194	-67.3
4	1:11		11.97	12.06	7.11	.62	257	218	-68.8
5									
6									
7									
8									

Sample color: Cloudy
Sample turbidity: High
Sample odor: (YES) NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 365

W-101d-0212.xls

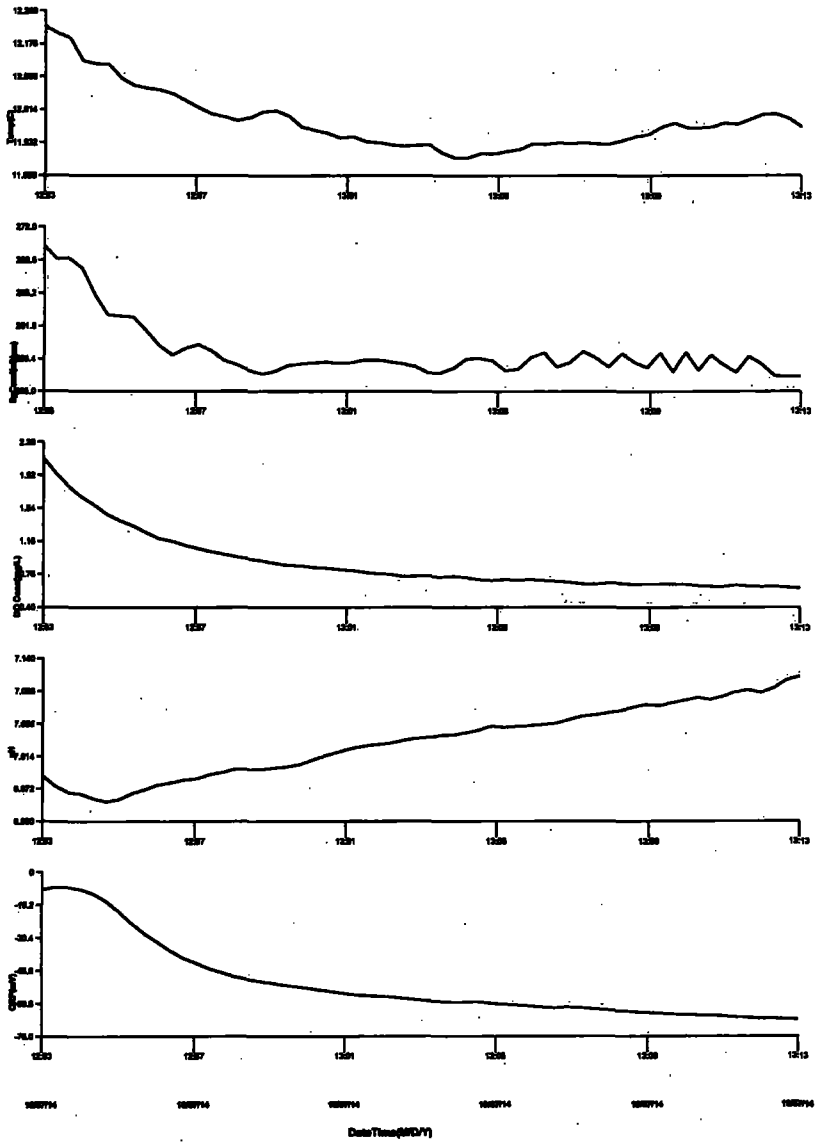
W-101D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
1	10/07/14 12:53:52	12.22	270.2	2.13	6.99	-8
2	10/07/14 12:54:12	12.21	268.8	1.95	6.97	-7
3	10/07/14 12:54:32	12.19	268.9	1.79	6.97	-7
4	10/07/14 12:54:52	12.14	267.8	1.67	6.96	-8
5	10/07/14 12:55:12	12.13	265.0	1.57	6.96	-10
6	10/07/14 12:55:32	12.13	262.9	1.47	6.95	-13
7	10/07/14 12:55:52	12.09	262.8	1.39	6.96	-18
8	10/07/14 12:56:12	12.07	262.6	1.33	6.96	-24
9	10/07/14 12:56:32	12.07	261.2	1.25	6.97	-28
10	10/07/14 12:56:52	12.06	259.6	1.18	6.98	-32
11	10/07/14 12:57:12	12.05	258.7	1.15	6.98	-37
12	10/07/14 12:57:32	12.03	259.4	1.10	6.98	-40
13	10/07/14 12:57:52	12.02	259.8	1.07	6.98	-42
14	10/07/14 12:58:12	12.00	259.1	1.03	6.99	-45
15	10/07/14 12:58:32	11.99	258.1	1.00	6.99	-47
16	10/07/14 12:58:52	11.98	257.7	0.97	7.00	-49
17	10/07/14 12:59:12	11.99	257.0	0.94	7.00	-50
18	10/07/14 12:59:32	12.01	256.7	0.92	7.00	-51
19	10/07/14 12:59:52	12.01	256.9	0.89	7.00	-52
20	10/07/14 13:00:12	12.00	257.6	0.87	7.00	-53
21	10/07/14 13:00:32	11.97	257.7	0.86	7.00	-54
22	10/07/14 13:00:52	11.96	257.8	0.85	7.01	-55
23	10/07/14 13:01:12	11.95	258.0	0.83	7.01	-55
24	10/07/14 13:01:32	11.94	257.8	0.82	7.02	-56
25	10/07/14 13:01:52	11.94	257.9	0.81	7.02	-57
26	10/07/14 13:02:12	11.93	258.2	0.79	7.03	-58
27	10/07/14 13:02:32	11.93	258.2	0.77	7.03	-58
28	10/07/14 13:02:52	11.92	258.0	0.76	7.03	-58
29	10/07/14 13:03:12	11.92	257.8	0.74	7.03	-59
30	10/07/14 13:03:32	11.92	257.5	0.74	7.04	-59

W-101D.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	10/07/14 13:03:52	11.92	256.8	0.74	7.04	-60
32	10/07/14 13:04:12	11.90	256.8	0.73	7.04	-60
33	10/07/14 13:04:32	11.89	257.3	0.74	7.04	-61
34	10/07/14 13:04:52	11.89	258.2	0.73	7.04	-61
35	10/07/14 13:05:12	11.90	258.3	0.70	7.05	-61
36	10/07/14 13:05:32	11.90	258.1	0.69	7.05	-61
37	10/07/14 13:05:52	11.91	257.0	0.70	7.05	-62
38	10/07/14 13:06:12	11.91	257.1	0.69	7.05	-62
39	10/07/14 13:06:32	11.92	258.4	0.70	7.05	-63
40	10/07/14 13:06:52	11.92	258.9	0.69	7.06	-63
41	10/07/14 13:07:12	11.93	257.4	0.68	7.06	-64
42	10/07/14 13:07:32	11.93	257.8	0.67	7.06	-63
43	10/07/14 13:07:52	11.93	259.1	0.66	7.07	-63
44	10/07/14 13:08:12	11.93	258.4	0.65	7.07	-64
45	10/07/14 13:08:32	11.92	257.4	0.66	7.07	-64
46	10/07/14 13:08:52	11.93	258.8	0.66	7.07	-65
47	10/07/14 13:09:12	11.94	257.9	0.65	7.08	-65
48	10/07/14 13:09:32	11.95	257.4	0.65	7.08	-66
49	10/07/14 13:09:52	11.97	258.9	0.65	7.08	-66
50	10/07/14 13:10:12	11.98	256.9	0.65	7.08	-66
51	10/07/14 13:10:32	11.97	259.0	0.65	7.09	-67
52	10/07/14 13:10:52	11.97	257.0	0.63	7.09	-67
53	10/07/14 13:11:12	11.97	258.6	0.62	7.09	-67
54	10/07/14 13:11:32	11.98	257.7	0.62	7.09	-67
55	10/07/14 13:11:52	11.97	256.8	0.64	7.10	-68
56	10/07/14 13:12:12	11.99	258.5	0.62	7.10	-68
57	10/07/14 13:12:32	12.00	257.7	0.62	7.10	-68
58	10/07/14 13:12:52	12.00	256.5	0.62	7.10	-68
59	10/07/14 13:13:12	11.99	256.4	0.61	7.11	-69
60	10/07/14 13:13:32	11.97	256.4	0.60	7.12	-69

W-101D.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-101i-0914
Volatile bottles preserved by: JB 04/18/14 0SC 2725
Sampled by: [illegible]

Date: 10-7-14
Time: 1:50 pm
Weather: [illegible]

Top of casing elevation: 650.25 ft Depth to well bottom: 96 ft

Depth to static water level: 10.15 ft Height of water column, H: 85.85 ft

Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40

Volume of water column: H ft x .174 gal/ft. 14.9 gallons

Volume of water evacuated: 7.5 .23 uc gallons

Depth to static water level after purging: 10.15
Did well recover? YES NO

Method of evacuation: Bladder Purge Flow Rate: 400 mL/min

Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	1:25		10.20	12.15	6.91	2.28	638	22.6	-51.3
2	1:40		10.26	11.78	6.85	.88	638	7.08	-91.0
3	1:43		10.28	11.77	6.85	.87	637	6.71	-90.3
4	1:46		10.25	11.78	6.85	.88	638	6.86	-91.7
5									
6									
7									
8									

Sample color: Slightly dirty
Sample turbidity: low
Sample odor: YES NO PID reading:
Other observations: Comments:

Additional comments on methodology, etc.:

Signature: 369

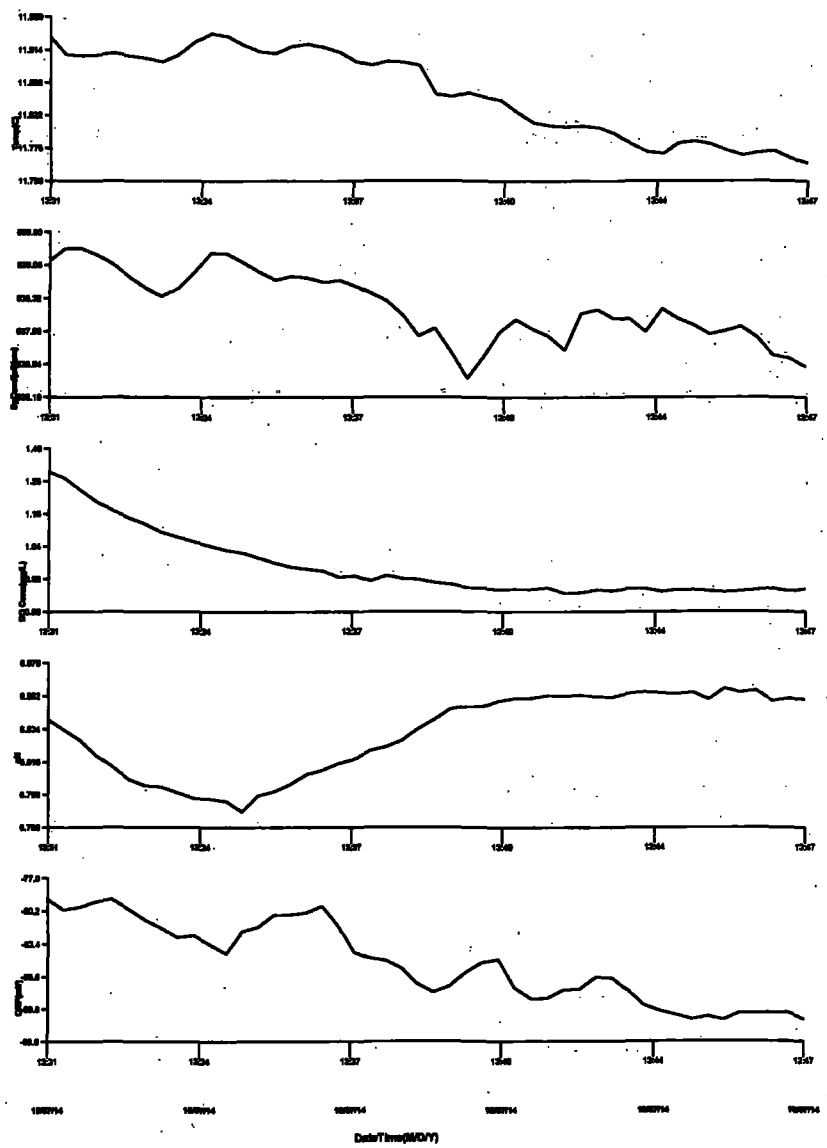
W-101i-0914

W-101I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
16	10/07/14 13:31:35	11.93	639.2	1.32	6.84	-79
17	10/07/14 13:31:55	11.91	639.4	1.29	6.83	-80
18	10/07/14 13:32:15	11.91	639.4	1.25	6.83	-80
19	10/07/14 13:32:35	11.91	639.3	1.21	6.82	-79
20	10/07/14 13:32:55	11.91	639.1	1.17	6.81	-79
21	10/07/14 13:33:15	11.91	638.8	1.14	6.81	-80
22	10/07/14 13:33:35	11.90	638.5	1.12	6.80	-81
23	10/07/14 13:33:55	11.90	638.4	1.09	6.80	-82
24	10/07/14 13:34:15	11.91	638.5	1.07	6.80	-83
25	10/07/14 13:34:35	11.93	638.9	1.06	6.80	-83
26	10/07/14 13:34:55	11.94	639.3	1.04	6.79	-83
27	10/07/14 13:35:15	11.93	639.3	1.02	6.79	-84
28	10/07/14 13:35:35	11.92	639.1	1.01	6.79	-82
29	10/07/14 13:35:55	11.91	638.9	0.99	6.80	-82
30	10/07/14 13:36:15	11.91	638.7	0.97	6.80	-81
31	10/07/14 13:36:35	11.92	638.8	0.96	6.80	-81
32	10/07/14 13:36:55	11.92	638.8	0.95	6.81	-80
33	10/07/14 13:37:15	11.92	638.7	0.94	6.81	-80
34	10/07/14 13:37:35	11.91	638.7	0.92	6.81	-82
35	10/07/14 13:37:55	11.90	638.6	0.93	6.82	-84
36	10/07/14 13:38:15	11.89	638.4	0.91	6.82	-85
37	10/07/14 13:38:35	11.90	638.3	0.93	6.82	-85
38	10/07/14 13:38:55	11.90	637.9	0.92	6.83	-86
39	10/07/14 13:39:15	11.89	637.5	0.91	6.83	-87
40	10/07/14 13:39:35	11.85	637.6	0.90	6.84	-88

W-101I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
41	10/07/14 13:39:55	11.85	637.1	0.89	6.85	-88
42	10/07/14 13:40:15	11.85	636.5	0.88	6.85	-86
43	10/07/14 13:40:35	11.85	637.0	0.88	6.85	-85
44	10/07/14 13:40:55	11.84	637.6	0.88	6.85	-85
45	10/07/14 13:41:15	11.83	637.8	0.88	6.85	-88
46	10/07/14 13:41:35	11.81	637.6	0.88	6.85	-89
47	10/07/14 13:41:55	11.81	637.5	0.88	6.85	-89
48	10/07/14 13:42:15	11.80	637.1	0.86	6.85	-88
49	10/07/14 13:42:35	11.81	638.0	0.86	6.85	-88
50	10/07/14 13:42:55	11.80	638.1	0.87	6.85	-87
51	10/07/14 13:43:15	11.80	637.9	0.87	6.85	-87
52	10/07/14 13:43:35	11.78	637.9	0.88	6.85	-88
53	10/07/14 13:43:55	11.77	637.6	0.88	6.85	-90
54	10/07/14 13:44:15	11.77	638.1	0.87	6.85	-90
55	10/07/14 13:44:35	11.78	637.9	0.87	6.85	-91
56	10/07/14 13:44:55	11.78	637.7	0.87	6.85	-91
57	10/07/14 13:45:15	11.78	637.5	0.87	6.85	-91
58	10/07/14 13:45:35	11.77	637.6	0.87	6.86	-91
59	10/07/14 13:45:55	11.76	637.7	0.87	6.85	-90
60	10/07/14 13:46:15	11.77	637.4	0.87	6.86	-90
61	10/07/14 13:46:35	11.77	637.0	0.88	6.85	-90
62	10/07/14 13:46:55	11.76	636.9	0.87	6.85	-90
63	10/07/14 13:47:15	11.75	636.8	0.88	6.85	-91



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: W-101s-0914
Volatile bottles preserved by: JB 09/10/14 0SCI 2725
Sampled by: AJ

Date: 10-7-14
Time: 2:25 pm
Weather: Rain

Top of casing elevation: 650.08 ft
Depth to well bottom: 19.16 ft
Depth to static water level: 10.82 ft
Height of water column, H: 8.34 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 40
Volume of water column: H ft x .174 gal/ft. 1.46 gallons
Volume of water evacuated: 3.25 2.2wc gallons
Depth to static water level after purging: 10.87
Did well recover? (YES) NO
Method of evacuation: Bladder
Purge Flow Rate: 400 mL/min
Method of sampling: Bladder

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	2		10.90	13.11	7.56	2.65	413	5.45	-61.4
2	2:15		10.93	13.68	7.76	.95	383	1.61	-83.6
3	2:18		10.90	13.64	7.71	.87	383	1.78	-90.4
4	2:21		10.93	13.68	7.65	.83	383	1.65	-90.7
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: (YES) NO
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 373

W-101s-0212.xls

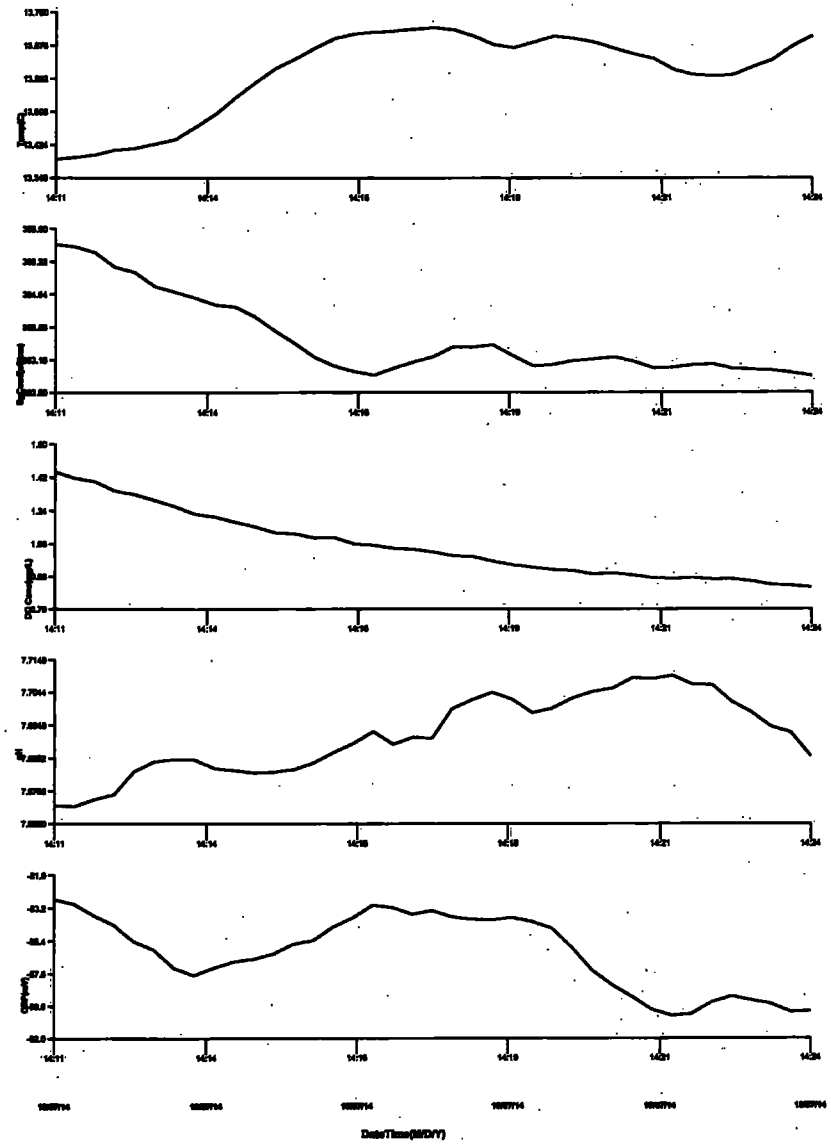
W-101S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
31	10/07/14 14:11:30	13.38	385.6	1.45	7.67	-83
32	10/07/14 14:11:50	13.39	385.5	1.42	7.67	-83
33	10/07/14 14:12:10	13.40	385.4	1.40	7.67	-84
34	10/07/14 14:12:30	13.41	385.1	1.35	7.67	-84
35	10/07/14 14:12:50	13.41	385.0	1.33	7.68	-85
36	10/07/14 14:13:10	13.42	384.7	1.30	7.68	-86
37	10/07/14 14:13:30	13.43	384.6	1.26	7.68	-87
38	10/07/14 14:13:50	13.47	384.5	1.22	7.68	-88
39	10/07/14 14:14:10	13.50	384.3	1.21	7.68	-87
40	10/07/14 14:14:30	13.54	384.3	1.18	7.68	-87
41	10/07/14 14:14:50	13.58	384.1	1.15	7.68	-87
42	10/07/14 14:15:10	13.62	383.8	1.12	7.68	-86
43	10/07/14 14:15:30	13.64	383.5	1.11	7.68	-86
44	10/07/14 14:15:50	13.67	383.2	1.09	7.68	-85
45	10/07/14 14:16:10	13.70	383.0	1.09	7.69	-84
46	10/07/14 14:16:30	13.71	382.9	1.06	7.69	-84
47	10/07/14 14:16:50	13.71	382.8	1.05	7.69	-83
48	10/07/14 14:17:10	13.72	383.0	1.03	7.69	-83
49	10/07/14 14:17:30	13.72	383.1	1.03	7.69	-84
50	10/07/14 14:17:50	13.72	383.2	1.01	7.69	-83
51	10/07/14 14:18:10	13.72	383.4	0.99	7.70	-84
52	10/07/14 14:18:30	13.70	383.4	0.98	7.70	-84
53	10/07/14 14:18:50	13.68	383.5	0.96	7.70	-84
54	10/07/14 14:19:10	13.67	383.2	0.94	7.70	-84
55	10/07/14 14:19:30	13.69	383.0	0.92	7.70	-84

W-101S.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
56	10/07/14 14:19:50	13.70	383.1	0.91	7.70	-85
57	10/07/14 14:20:10	13.70	383.1	0.90	7.70	-86
58	10/07/14 14:20:30	13.69	383.2	0.89	7.70	-87
59	10/07/14 14:20:50	13.67	383.2	0.89	7.71	-88
60	10/07/14 14:21:10	13.66	383.1	0.88	7.71	-89
61	10/07/14 14:21:30	13.64	383.0	0.86	7.71	-90
62	10/07/14 14:21:50	13.62	383.0	0.86	7.71	-91
63	10/07/14 14:22:10	13.60	383.1	0.87	7.71	-90
64	10/07/14 14:22:30	13.60	383.1	0.86	7.71	-90
65	10/07/14 14:22:50	13.60	383.0	0.86	7.70	-89
66	10/07/14 14:23:10	13.62	383.0	0.85	7.70	-89
67	10/07/14 14:23:30	13.64	382.9	0.83	7.69	-90
68	10/07/14 14:23:50	13.68	382.9	0.82	7.69	-90
69	10/07/14 14:24:10	13.70	382.8	0.81	7.69	-90

W-101S.DAT



Groundwater Sampling
Field Data Form

Project name: Ott Story Cordova
Sampling point: MW-34i-0914
Volatile bottles preserved by:
Sampled by: tp

Date: 10-14-14
Time: 10:25 am
Weather: Rain

Top of casing elevation: 630.3 ft
Depth to well bottom: 78 ft
Depth to static water level: 19.61 ft
Height of water column, H: 58.39 ft
Diameter of well casing, D: 2 inches
(approx. diameter) Schedule 80
Volume of water column: H ft x .153 gal/ft. 8.9 gallons
Volume of water evacuated: 40 2.5 .28wc gallons
Depth to static water level after purging: 19.91
Did well recover? (YES) NO
Method of evacuation: Peristaltic
Purge Flow Rate: 400 mL/min
Method of sampling: Peristaltic

Readings:

	Time	Water Depth ft	Water Level ft	Temp °C	pH S.U.	DO mg/L	Spec Cond µS/cm	Turbidity NTU	ORP mV
1	10		19.79	11.42	8.21	2.09	252	3.83	135.0
2	10:15		19.75	11.14	7.72	1.62	297	1.10	137.6
3	10:18		19.73	11.23	7.69	1.57	298	0.62	137.3
4	10:21		19.73	11.40	7.70	1.53	296	0.57	135.4
5									
6									
7									
8									

Sample color: Clear
Sample turbidity: low
Sample odor: YES (NO)
PID reading:
Other observations:
Comments:

Additional comments on methodology, etc.:

Signature: 377

MW-34i-0914.xls

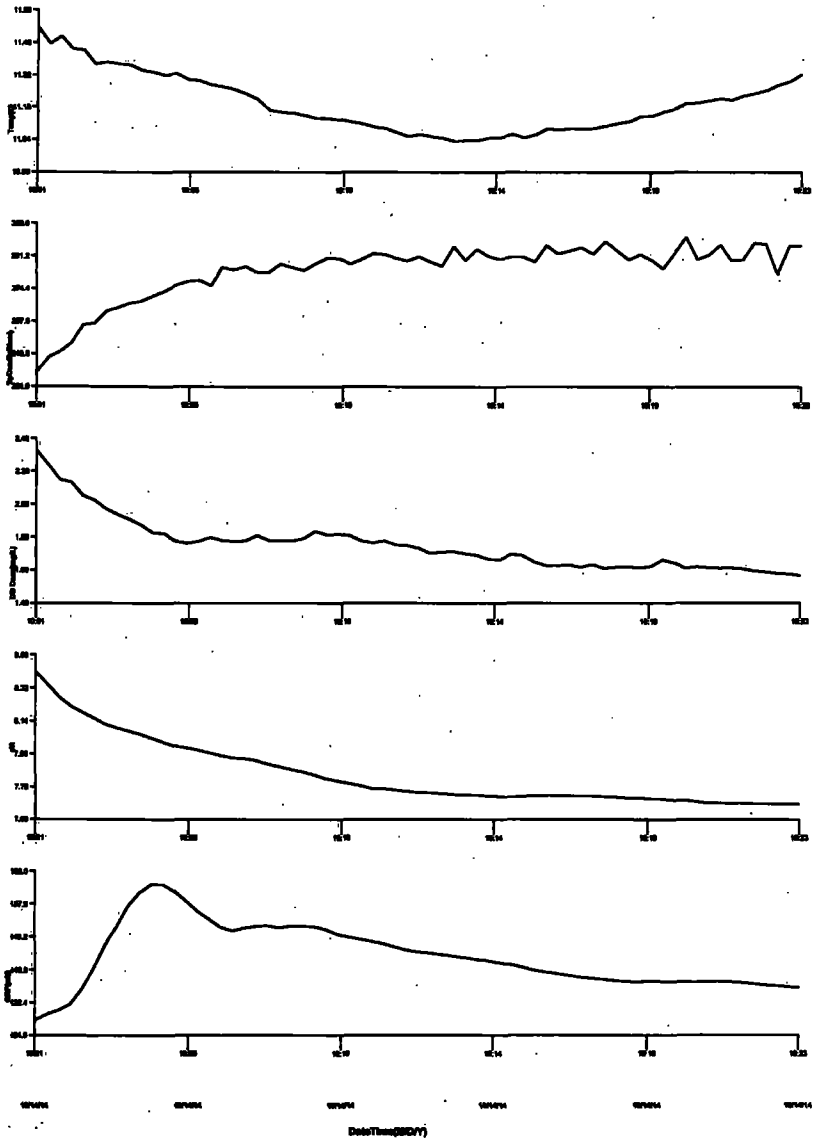
MW-34I.DAT

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
2	10/14/14 10:01:27	11.52	231.8	2.32	8.40	128
3	10/14/14 10:01:47	11.45	238.9	2.24	8.34	129
4	10/14/14 10:02:07	11.49	241.8	2.15	8.27	130
5	10/14/14 10:02:27	11.43	246.3	2.13	8.22	132
6	10/14/14 10:02:47	11.43	255.5	2.05	8.19	136
7	10/14/14 10:03:07	11.37	256.4	2.02	8.16	141
8	10/14/14 10:03:27	11.38	262.6	1.97	8.12	147
9	10/14/14 10:03:47	11.37	264.3	1.94	8.10	152
10	10/14/14 10:04:07	11.36	266.6	1.91	8.08	157
11	10/14/14 10:04:27	11.34	267.6	1.88	8.07	160
12	10/14/14 10:04:47	11.33	270.3	1.83	8.05	163
13	10/14/14 10:05:07	11.32	272.8	1.82	8.02	163
14	10/14/14 10:05:27	11.33	276.0	1.77	8.00	161
15	10/14/14 10:05:47	11.30	277.9	1.76	7.99	158
16	10/14/14 10:06:07	11.29	278.4	1.77	7.98	156
17	10/14/14 10:06:27	11.28	275.7	1.80	7.96	154
18	10/14/14 10:06:47	11.27	285.0	1.78	7.95	151
19	10/14/14 10:07:07	11.26	283.7	1.77	7.94	151
20	10/14/14 10:07:27	11.24	285.4	1.78	7.93	151
21	10/14/14 10:07:47	11.21	282.4	1.81	7.92	152
22	10/14/14 10:08:07	11.16	282.4	1.78	7.90	152
23	10/14/14 10:08:27	11.16	286.8	1.78	7.89	152
24	10/14/14 10:08:47	11.15	285.1	1.78	7.88	152
25	10/14/14 10:09:07	11.14	283.5	1.79	7.86	152
26	10/14/14 10:09:27	11.13	287.1	1.83	7.84	152

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
27	10/14/14 10:09:47	11.13	289.9	1.81	7.82	151
28	10/14/14 10:10:07	11.12	289.9	1.82	7.81	150
29	10/14/14 10:10:27	11.11	286.7	1.81	7.80	149
30	10/14/14 10:10:47	11.11	289.2	1.78	7.79	148
31	10/14/14 10:11:07	11.09	292.1	1.77	7.77	148
32	10/14/14 10:11:27	11.09	291.7	1.78	7.77	147
33	10/14/14 10:11:47	11.07	289.8	1.75	7.76	147
34	10/14/14 10:12:07	11.05	288.6	1.75	7.76	146
35	10/14/14 10:12:27	11.06	290.6	1.73	7.75	145
36	10/14/14 10:12:47	11.05	287.8	1.70	7.75	145
37	10/14/14 10:13:07	11.04	285.8	1.71	7.74	145
38	10/14/14 10:13:27	11.03	295.7	1.71	7.74	144
39	10/14/14 10:13:47	11.04	288.7	1.70	7.74	144
40	10/14/14 10:14:07	11.04	294.3	1.69	7.74	143
41	10/14/14 10:14:27	11.05	290.8	1.67	7.73	143
42	10/14/14 10:14:47	11.05	289.3	1.66	7.73	143
43	10/14/14 10:15:07	11.06	290.5	1.70	7.73	142
44	10/14/14 10:15:27	11.05	290.5	1.69	7.73	142
45	10/14/14 10:15:47	11.06	287.9	1.65	7.73	141
46	10/14/14 10:16:07	11.08	296.3	1.63	7.73	140
47	10/14/14 10:16:27	11.08	292.1	1.62	7.73	140
48	10/14/14 10:16:47	11.09	293.5	1.63	7.73	139
49	10/14/14 10:17:07	11.09	295.3	1.62	7.73	139
50	10/14/14 10:17:27	11.09	292.0	1.63	7.73	139
51	10/14/14 10:17:47	11.10	298.3	1.61	7.73	138

	DateTime	Temp	SpCond	DO Conc	pH	ORP
	M/D/Y	C	uS/cm	mg/L		mV
52	10/14/14 10:18:07	11.11	293.8	1.62	7.73	138
53	10/14/14 10:18:27	11.12	289.1	1.62	7.72	138
54	10/14/14 10:18:47	11.14	291.8	1.61	7.72	138
55	10/14/14 10:19:07	11.14	288.8	1.62	7.71	138
56	10/14/14 10:19:27	11.16	284.5	1.66	7.71	138
57	10/14/14 10:19:47	11.17	292.3	1.64	7.71	138
58	10/14/14 10:20:07	11.20	300.6	1.61	7.71	138
59	10/14/14 10:20:27	11.20	289.2	1.62	7.70	138
60	10/14/14 10:20:47	11.21	291.4	1.61	7.69	138
61	10/14/14 10:21:07	11.22	296.4	1.61	7.69	138
62	10/14/14 10:21:27	11.21	288.5	1.61	7.69	138
63	10/14/14 10:21:47	11.23	288.9	1.61	7.69	137
64	10/14/14 10:22:07	11.24	297.6	1.60	7.69	137
65	10/14/14 10:22:27	11.25	297.0	1.59	7.69	137
66	10/14/14 10:22:47	11.27	281.6	1.58	7.69	137
67	10/14/14 10:23:08	11.29	296.1	1.58	7.69	136
68	10/14/14 10:23:28	11.32	296.2	1.57	7.69	136

MW-34LDAT



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