



697-09-61 (Conn Camp)
2nd Quarter 2014 Sampling Summary





6/13/2014

1.0 Location:

OXY USA WTP LP (Operator #66571)
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

697-09-61 (Location ID 335889)
T6S, R97W, Sec9, SWSE
Garfield County, Colorado

2.0 Overview:

This report summarizes the second quarter 2014 monitoring event of the June 2008 OXY USA WTP LP's (OXY) Cascade Creek 697-09-61 well pad release; refer to Colorado Oil and Gas Conservation Commission (COGCC) Document #200191192 and Remediation project #4620. The well pad is situated east of an unnamed tributary of Cascade Canyon, and the release extended to the drainage near a rancher's cabin (Conn Camp) located along the west unnamed creek. The well pad, Conn Camp, and the area upon which the release occurred and surfaced are located on property owned by OXY.

Second quarter samples were collected on May 22, 2014. Laboratory analyses of these samples indicate that concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) were all found to be below the COGCC's table 910-1 allowable concentrations. Gasoline range organic compounds (GRO) was not detected during this event.

3.0 Water Monitoring and Results:

Quarterly sampling was conducted on May 22, 2014 at three of the approved sampling locations; North Trench (sampling point #2), S1 Trench (sampling point #7), and the downstream Point-of-Compliance (aka "POC", sampling point #10). The Latham Spring Pond (sampling point #32) location was dry during the sampling event. Conditions during sampling events were clear and warm.

No exceedances of BTEX were identified during this event. A summary of analytical results for the last five quarters of the listed sampling points are shown in Table 1.

A summary of all sampling locations for the history of the release are presented in the attached Comprehensive Laboratory Data Summary by Location table and attached to this report. Graphical summaries of BTEX concentrations for sampling locations #2, #7, #10, and #32 are summarized and attached to this report. The four sample locations are identified on the attached figure.

4.0 Quality Control:

A formal sampling and analyses plan has not been prepared for this event. OXY has collected duplicate and split samples for quality control (QC) purposes to determine the adequacy of field collection and laboratory methods. Duplicate and split samples were collected at sampling points #2, #7, and #10. The duplicate samples were analyzed and the split samples were held by the alternate laboratory and were not analyzed.

All duplicate samples collected and analyzed during the 2nd Quarter 2014 event were shown to be "non detect" for benzene, toluene, ethylbenzene and GRO. Detections of xylene were identified in the quarterly and duplicate samples at nearly the same concentration. No data qualifiers were identified for any of the quarter or duplicate samples during analyses.

Table 1. Summary of 697-09-61 Monitoring Results from 2nd Quarter 2013 through 2nd Quarter 2014

Location # / Date	Benzene (MCL = 5.0 µg/L)	Toluene (MCL = 1000 µg/L)	Ethylbenzene (MCL = 700 µg/L)	Xylenes (MCL = 10000 µg/L)	GRO (MCL = Detection)	TDS (MCL = 487 ppm)*
N. Trench (#2)						
5/8/2013 Q2	<1.0	<5.0	<1.0	<3.0	<100	500
8/21/2013 Q3	<1.0	<5.0	<1.0	<3.0	<100	500
8/21/2013 Q3 D	<1.0	<5.0	<1.0	<3.0	<100	500
8/21/2013 Q3 S	<1.0	<1.0	<1.0	<3.0	<50	500
10/15/2013 Q4	<1.0	<5.0	<1.0	<3.0	<100	500
10/15/2013 Q4 D	<1.0	<5.0	<1.0	<3.0	<100	500
10/15/2013 Q4 S	<1.0	<5.0	<1.0	<3.0	<50	500
3/25/2014 Q1	<1.0	<5.0	<1.0	<3.0	<100	NA
3/25/2014 Q1 D	<1.0	<5.0	<1.0	<3.0	<100	NA
5/22/2014 Q2	<1.0	<5.0	<1.0	<3.0	<100	455
5/22/2014 Q2 D	<1.0	<5.0	<1.0	<3.0	<100	NA
Latham Spring Pond (#32)						
5/8/2013 Q2	No Available Water					
8/21/2013 Q3	No Available Water					
10/15/2013 Q4	<1.0	<5.0	<1.0	<3.0	<100	100
10/15/2013 Q4 D	<1.0	<5.0	<1.0	<3.0	<100	100
10/15/2013 Q4 S	<1.0	<5.0	<1.0	<3.0	<50	100
3/26/2013 Q1	No Available Water					
5/22/2014 Q2	No Available Water					
S1 Trench (#7)						
5/8/2013 Q2	<1.0	<5.0	<1.0	<3.0	<100	700
8/21/2013 Q3	<1.0	<5.0	<1.0	<3.0	<100	700
8/21/2013 Q3 D	<1.0	<5.0	<1.0	<3.0	<100	600
8/21/2013 Q3 S	<1.0	<1.0	<1.0	<3.0	<50	600
10/15/2013 Q4	<1.0	<5.0	<1.0	<3.0	<100	700
10/15/2013 Q4 D	<1.0	<5.0	<1.0	<3.0	<100	700
10/15/2013 Q4 S	<1.0	<5.0	<1.0	<3.0	<50	700
3/25/2014 Q1	<1.0	<5.0	<1.0	5.8	<100	NA
3/25/2014 Q1 D	<1.0	<5.0	<1.0	8.7	<100	NA
5/22/2014 Q2	<1.0	<5.0	<1.0	3.6	<100	624
5/22/2014 Q2 D	<1.0	<5.0	<1.0	3.4	<100	NA
POC (#10)						
5/8/2013 Q2	<1.0	<5.0	<1.0	<3.0	<100	500
8/21/2013 Q3	<1.0	<5.0	<1.0	<3.0	<100	500
8/21/2013 D	<1.0	<5.0	<1.0	<3.0	<100	500
8/21/2013 S	<1.0	<5.0	<1.0	<3.0	<50	500
10/15/2013 Q4	<1.0	<5.0	<1.0	<3.0	<100	600
10/15/2013 Q4 D	<1.0	<5.0	<1.0	<3.0	<100	600
10/15/2013 Q4 S	<1.0	<5.0	<1.0	<3.0	<50	600
3/25/2014 Q1	<1.0	<5.0	<1.0	<3.0	<100	NA
3/25/2014 Q1 D	<1.0	<5.0	<1.0	<3.0	<100	NA
5/22/2014 Q2	<1.0	<5.0	<1.0	<3.0	<100	397
5/22/2014 Q2 D	<1.0	<5.0	<1.0	<3.0	<100	NA

Notes: µg/L – micrograms per liter
 Q1/Q2/Q3/Q4 – indicates normal quarterly sample
 MCL – Maximum concentration level (µg/L)
 ppm – parts per million
 NA – not analyzed.

GRO – gasoline range organics
 TDS – total dissolved solids
 D – indicates duplicate sample analyzed by QTR laboratory
 S – indicates duplicate sample analyzed by separate laboratory
 * – 1.25 × 390 ppm detected at location #12 on February 12, 2009



5.0 Conclusions:

No exceedances of benzene, toluene, ethyl-benzene, or xylene were identified during the 1st Quarter 2014 sampling event. GRO is used as a comparative indicator for the presence of low-fraction petroleum hydrocarbons and of remediation progress at the site and was not detected in any samples during this event.

Separate graphs of analytical results from the past year (five sampling events) and for the lifetime of the event (June 2008 through May 2014) are attached to this report. A rise in laboratory analytical method detection limits has occurred over the past two years (1st Quarter 2012 through May 2014). Analytical detection limits denoted with a less-than sign (<) in Table 1 are below allowable MCLs, but when graphed at the detection limit appears to show an upward trend over the past two years since analytical sensitivity decreased. The overall trend over the last 5 quarters, the last time analytical sensitivity was decreased, shows a level trend for the analytes of concern. The decreased laboratory sensitivity in analytical methods has been noted to contribute to the upward graphical trend, but is unlikely to be indicative of an increase of BTEX constituents at those locations with BTEX concentrations below the MCLs. BTEX concentrations are in a downward overall trend since the event occurred in June 2008.

A Form 4 Sundry Notice of Intent for Environmental Work was submitted to COGCC on February 7, 2014. That notice requests conditional closure of Remediation Project #4620 following four consecutive quarters of monitoring without BTEX exceedances, two seasonal runoff monitoring events in each of the typical subsequent runoff periods (summer 2014 and summer 2015), removal of the HESCO barriers, reclamation of the seep trenches, HESCO barrier soil disposal or re-use, contingency seep monitoring, and incorporation of the event area into the existing stormwater management plan. As of this report date approval for these actions has not been received.

To date, five consecutive quarters of below MCL BTEX monitoring has been achieved and OXY intends to begin the reclamation process by removing the HESCO barriers, characterizing the HESCO barrier fill soil to Table 910-1 standards, installing PVC piping to capture seep water, and re-contouring the trench areas for reseeding.

5.0 Attachments

Site Sampling Locations

Figure 1. Site Locations Summary

BTEX Analyte Graphs: by location June 2008 to May 2014

Benzene, Toluene, Ethylbenzene, and Xylene Graphs, 1st Quarter 2013 to 2nd Quarter 2014

Comprehensive Laboratory Data Summary by Location – June 2008 to May 2014



OXY USA WTP LP

760 Horizon Drive, Suite 101
Grand Junction, CO 81506

Sampling Location Summary Conn Camp - Benzene Results

Revised: 6/12/2014

Garfield County, Colorado

0 250 500 750 1,000
Feet

Latham Pond

North Trench

CC 697-09-61

S1 Trench

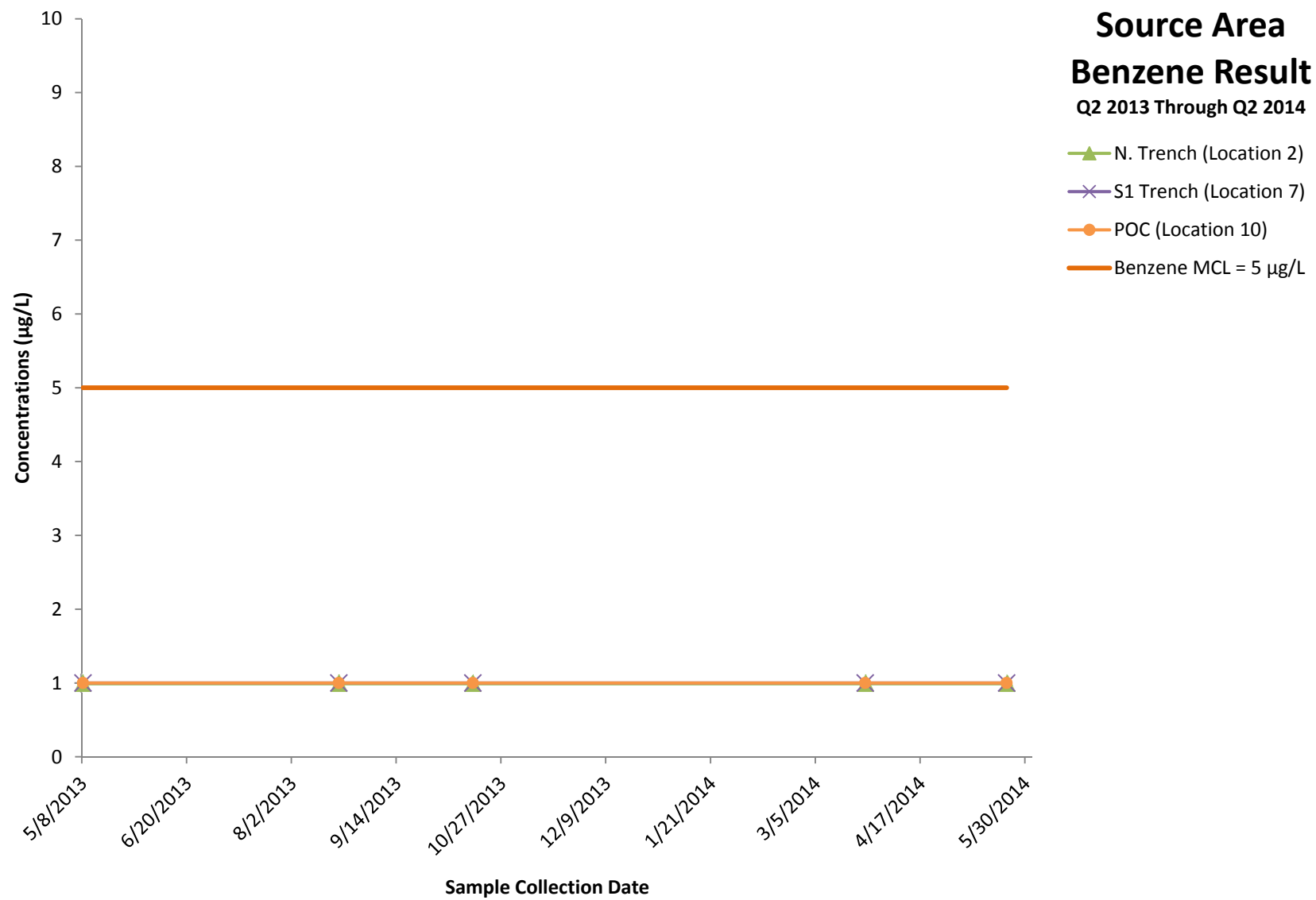
09
6-S-97W
16

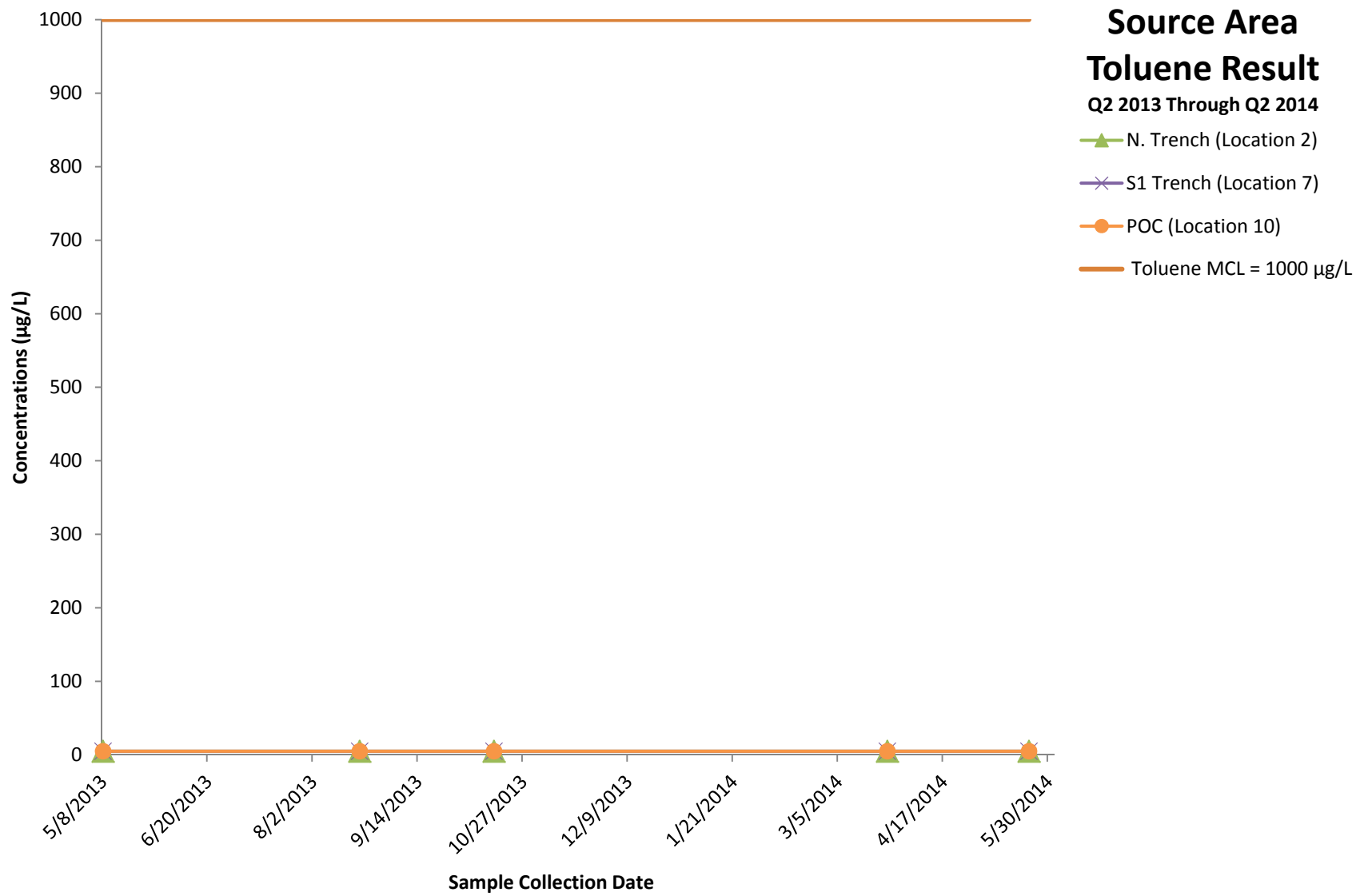
POC

CC 697-16-28

Legend Sample Location Second Quarter Results

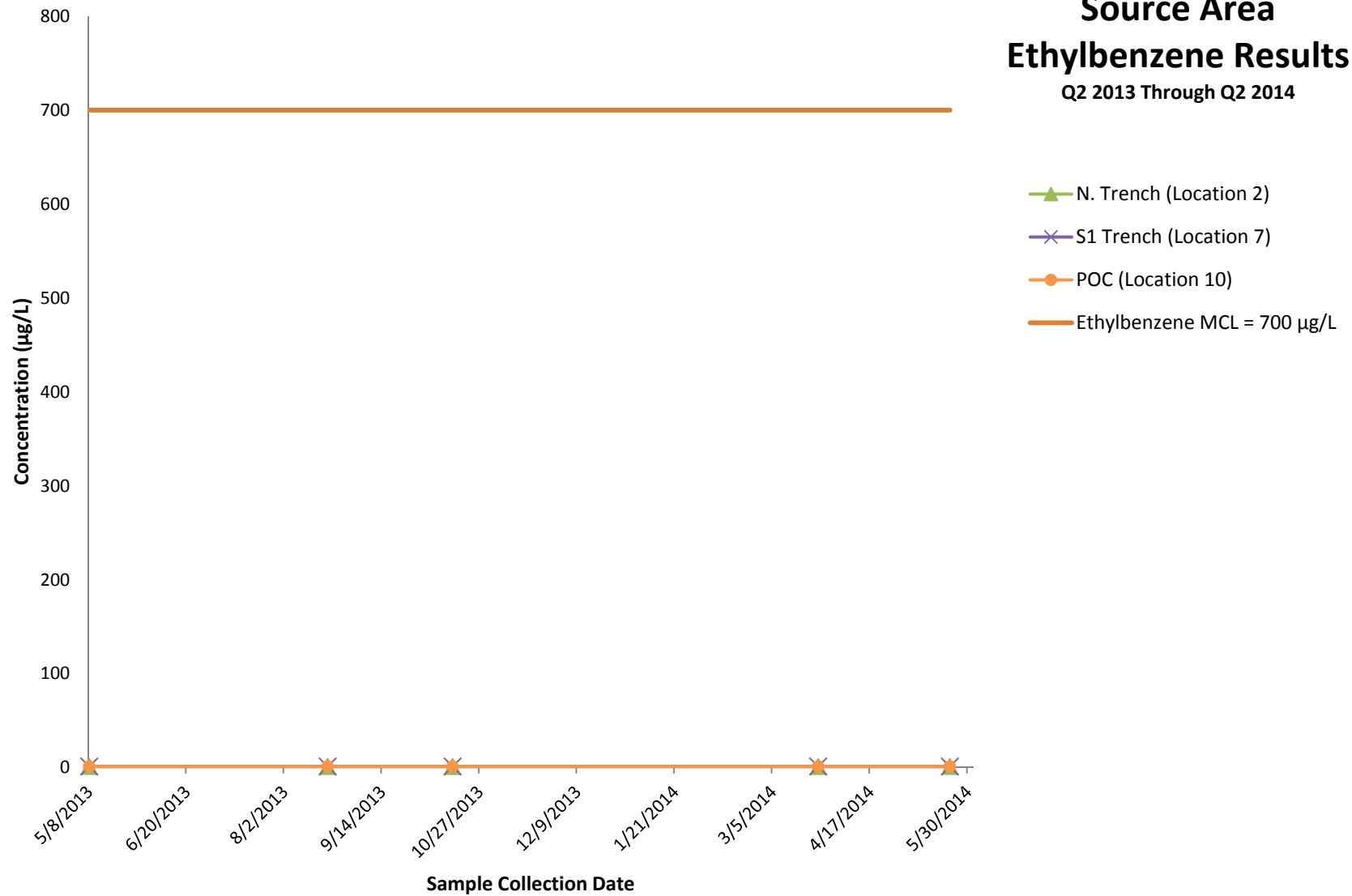
- No Detection
- Not Sampled
- Existing Oxy Well Pad
- Township
- Section
- Oxy Responsible Road



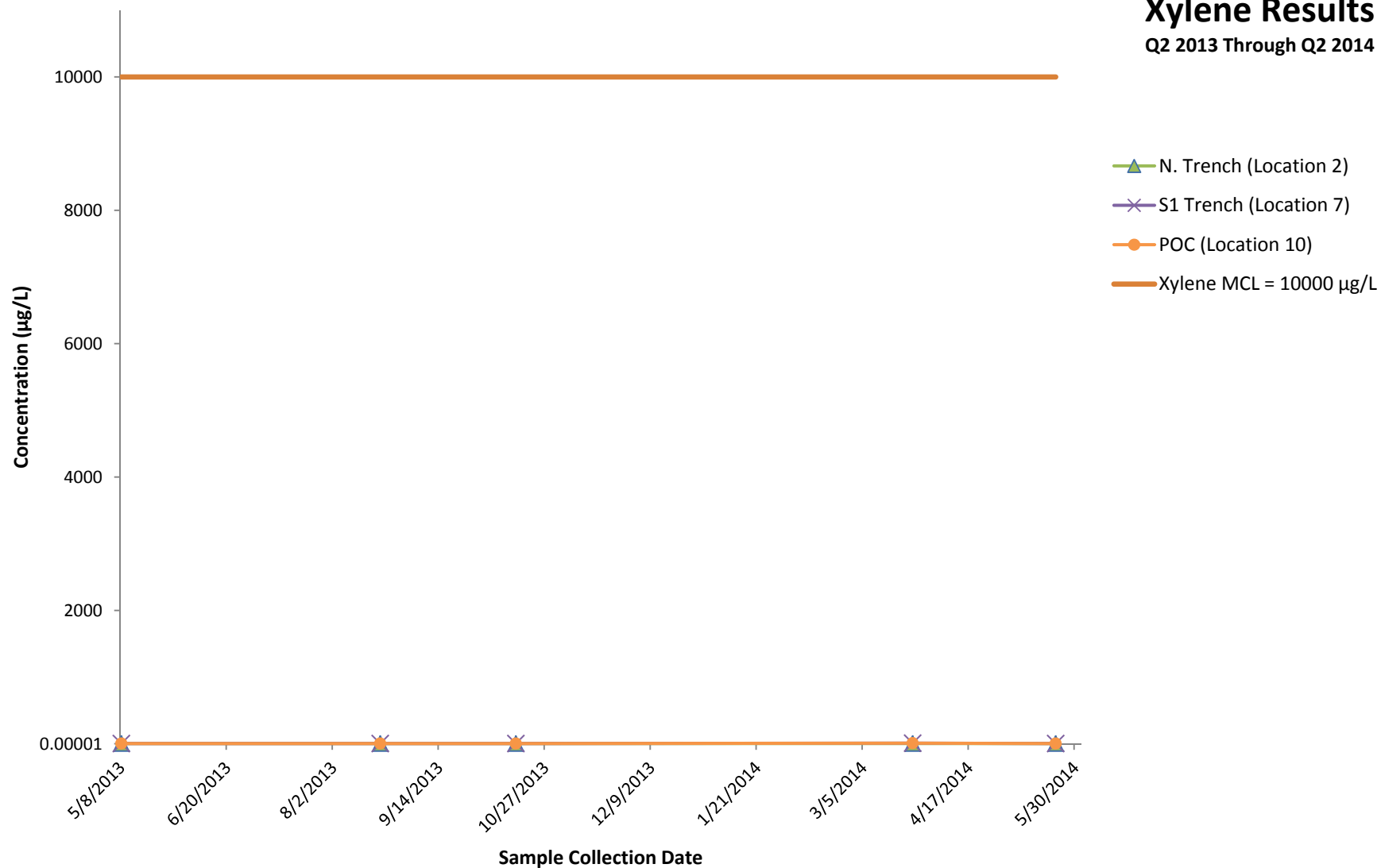


Source Area Ethylbenzene Results

Q2 2013 Through Q2 2014

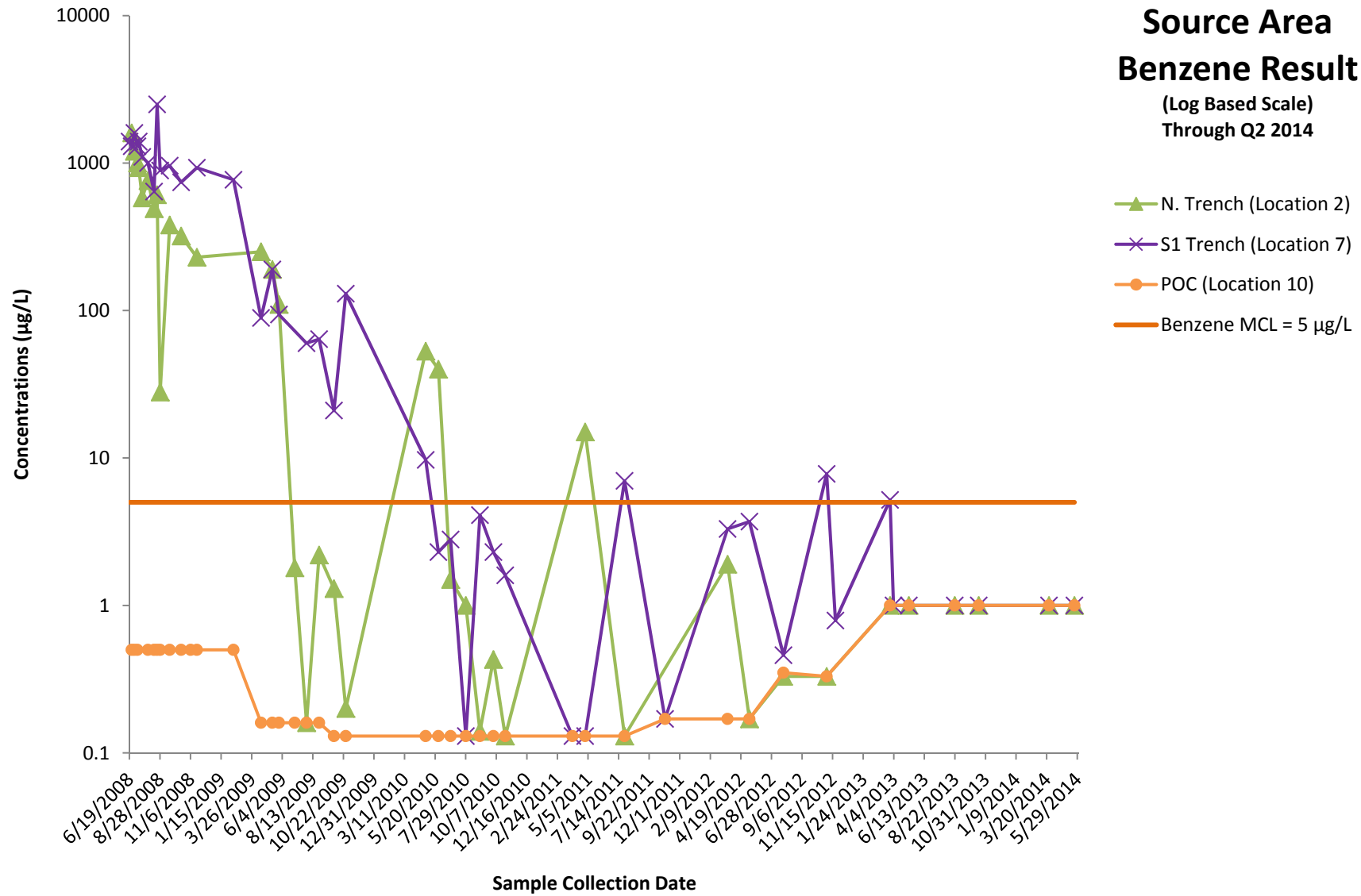


Source Area Xylene Results Q2 2013 Through Q2 2014



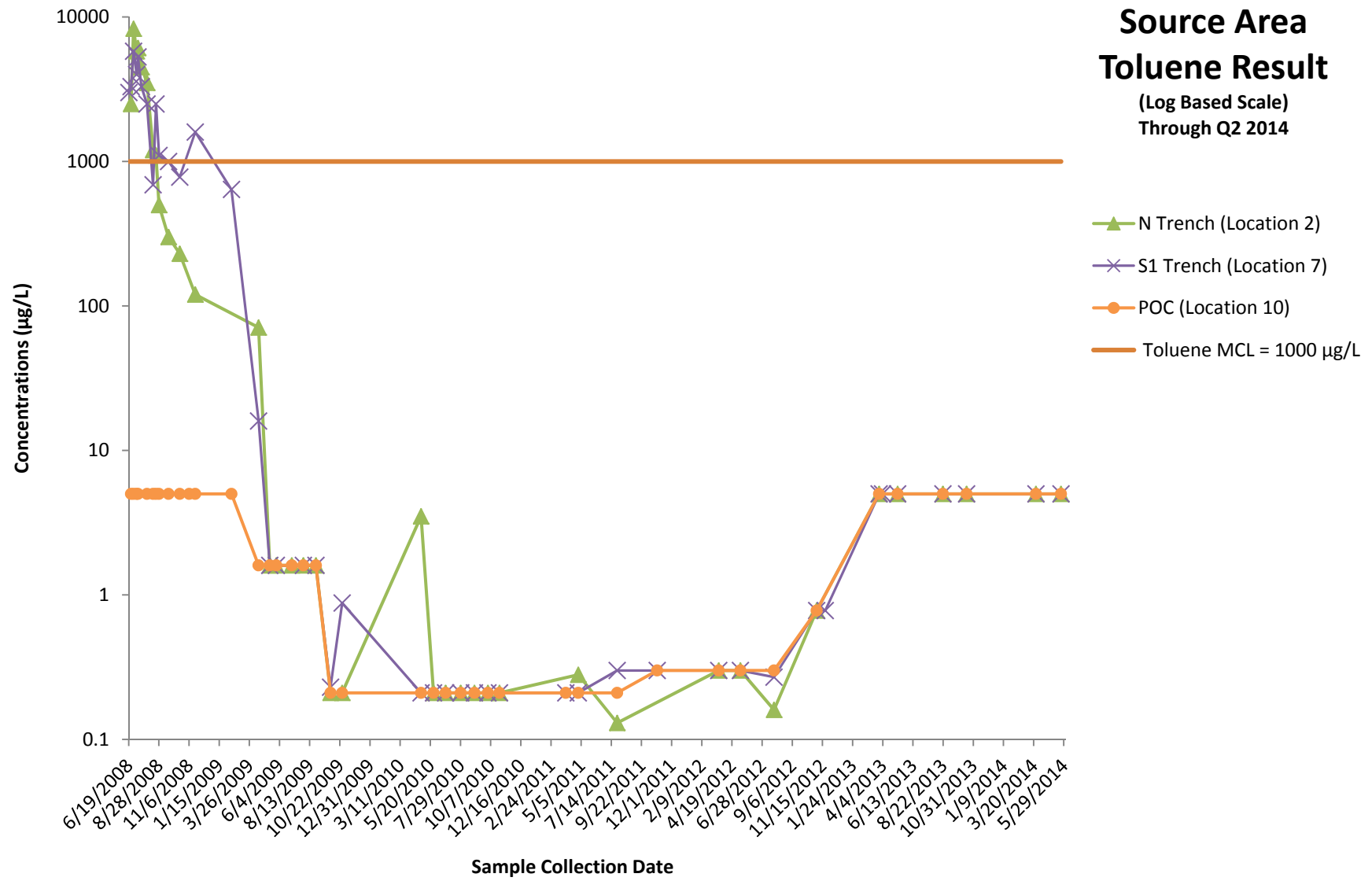
Source Area Benzene Result

(Log Based Scale)
Through Q2 2014



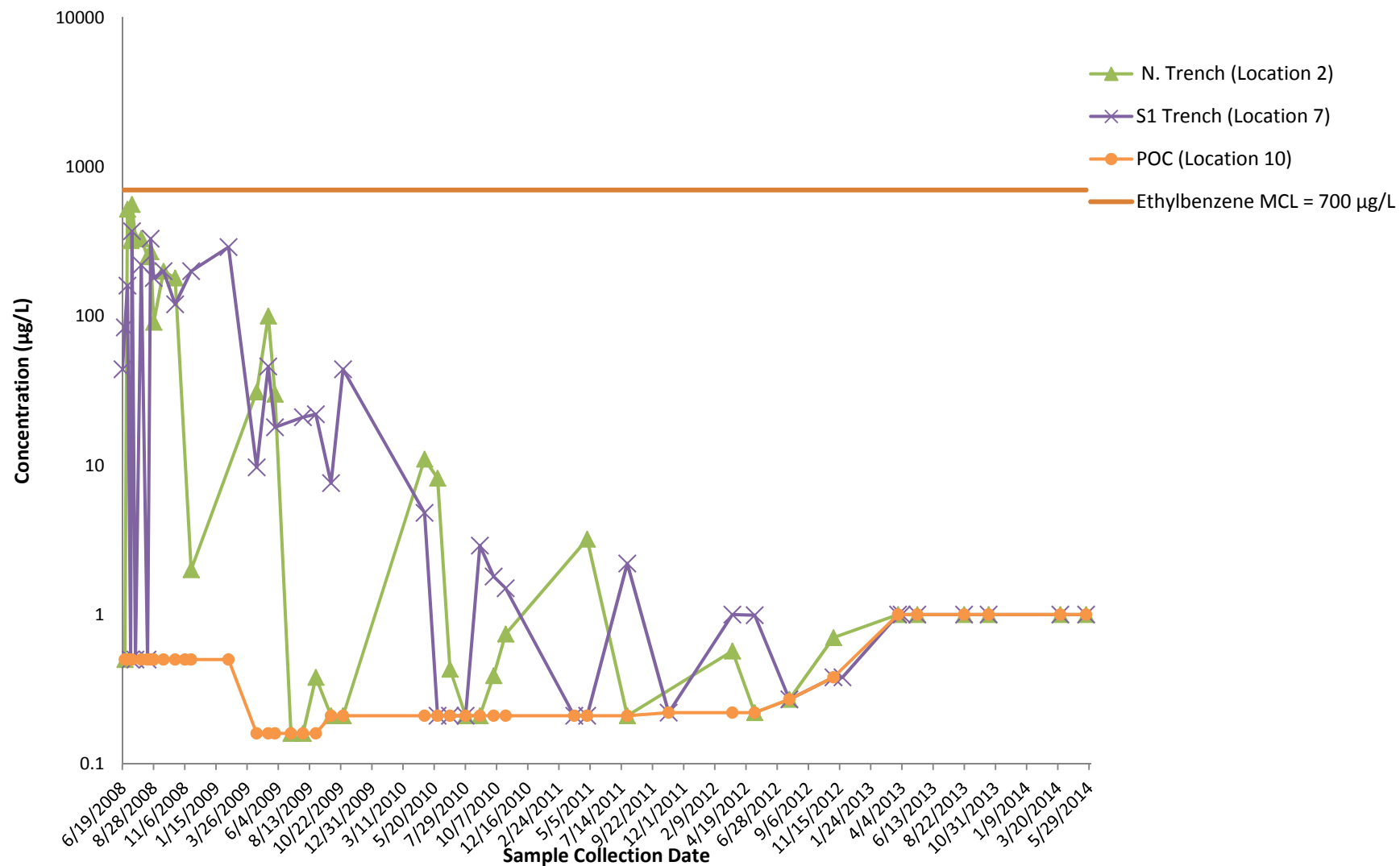
Source Area Toluene Result

(Log Based Scale)
Through Q2 2014



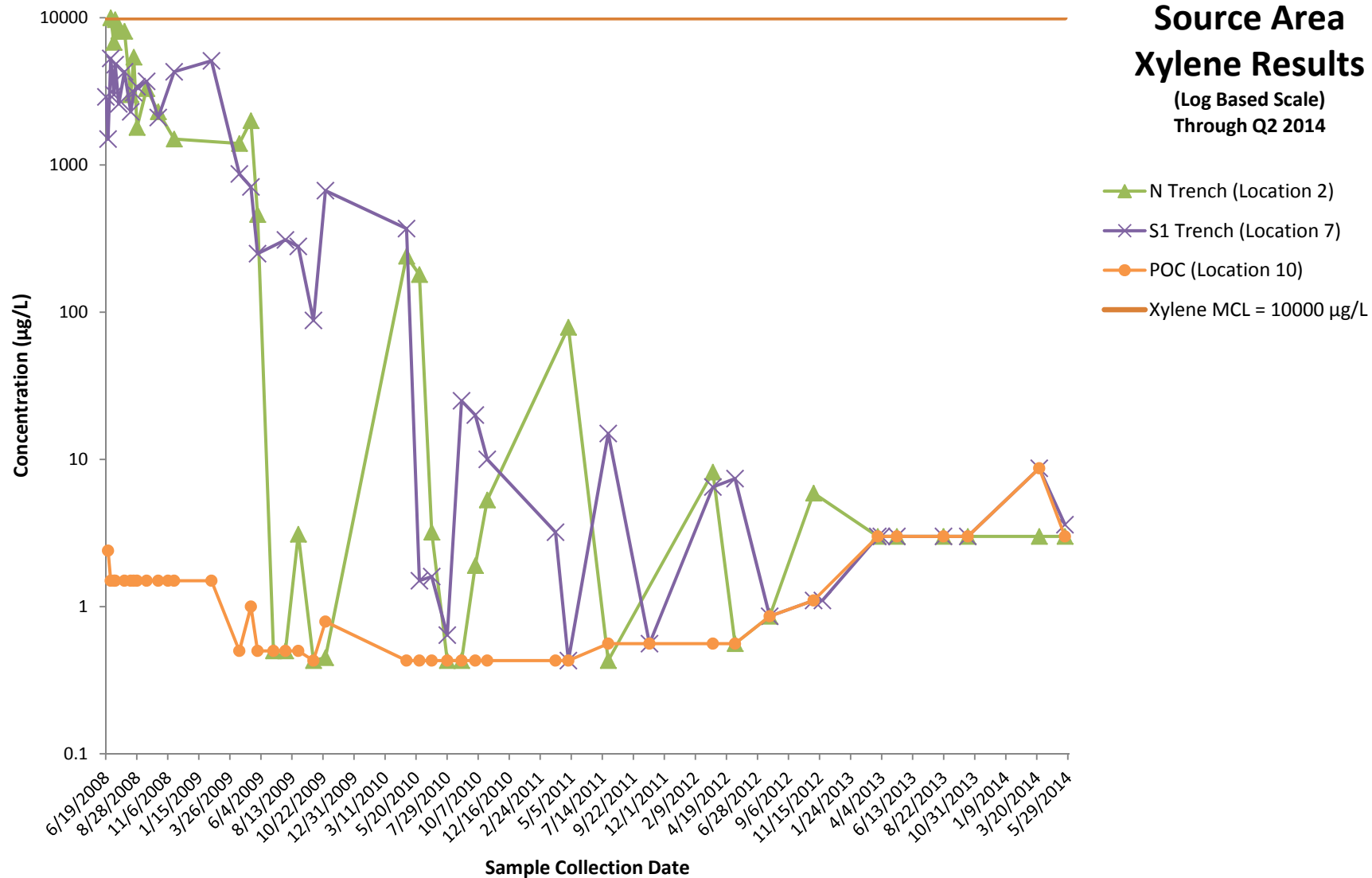
Source Area Ethylbenzene Results

(Log Based Scale)
Through Q2 2014



Source Area Xylene Results

(Log Based Scale)
Through Q2 2014



Comprehensive Laboratory Data Summary by Location (June 2008 - May 2014)

Sample Date	Benzene (MCL = 5.0 µg/L)	Toluene (MCL= 560 to 1000 µg/L)*	Ethylbenzene (MCL= 700 µg/L)	Xylenes (MCL= 1400 to 10000 µg/L)*	GRO (MCL = Detection - µg/L)	TDS (MCL = 487 ppm)**
Latham - Upstream (#1)						
6/16/2008	0.5	5.0	0.5	1.5	100	NA
6/24/2008	6.0	5.0	1.9	16	500	340
6/30/2008	2.4	5.0	1.8	9.8	590	350
7/2/2008	0.5	5.0	0.5	1.5	100	NA
7/7/2008	2.9	5.0	2.1	15	940	NA
7/10/2008	2.8	5.0	2.7	9.2	590	NA
7/18/2008	0.5	5.0	0.5	1.5	100	360
7/31/2008	5.7	5.1	0.8	160	670	NA
8/14/2008	36	<5.0	7.7	430	2800	NA
4/30/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/12/2009	0.18	<1.6	0.22	1.0	76	NA
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
5/27/2010	<0.13	<0.21	<0.21	<0.43	<40	380
6/24/2010	Water Unavailable for Sample Collection					
7/29/2010	Water Unavailable for Sample Collection					
9/30/2010	Water Unavailable for Sample Collection					
4/28/2011	Water Unavailable for Sample Collection					
7/27/2011	Water Unavailable for Sample Collection					
Upstream - Conn Camp (#1u)						
4/30/2009	<0.16	<1.6	<0.16	0.5	<33	NA
5/12/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
7/29/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
8/27/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
9/30/2009	<0.13	<0.21	<0.21	<0.43	<33	NA
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
6/24/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
7/29/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
8/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
9/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
4/28/2011	Water Unavailable for Sample Collection					
7/27/2011	Water Unavailable for Sample Collection					
N. Trench (#2)						
6/24/2008	1600	2500	<0.5	11000	<100	470
6/30/2008	1200	8300	520	10000	46000	470
7/7/2008	1000	5800	320	6800	<50000	NA
7/10/2008	930	6100	560	9700	<50000	NA
7/18/2008	580	4500	330	8100	NA	410
7/31/2008	760	3500	330	8100	24000	NA
8/14/2008	490	1200	250	3000	22000	NA
8/21/2008	610	1100	270	5400	15000	NA
8/28/2008	28	<500	91	1800	<10000	NA
9/19/2008	380	300	200	3300	9500	NA
10/15/2008	320	230	180	2300	6900	NA
11/20/2008	230	120	2.0	1500	4500	NA
4/16/2009	250	71	31	1400	5300	NA
5/12/2009	190	<1.6	100	2000	8200	NA
5/27/2009	110	<1.6	30	460	3000	NA
7/2/2009	1.8	<1.6	<0.16	<0.5	41	470
7/29/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
8/27/2009	2.2	<1.6	0.38	3.1	44	NA
9/30/2009	1.3	<0.21	<0.21	<0.43	<33	NA
10/27/2009	0.2	<0.21	<0.21	0.45	43	NA
11/24/2009	Water Unavailable for Sample Collection					

Comprehensive Laboratory Data Summary by Location (June 2008 - May 2014)

Sample Date	Benzene (MCL = 5.0 µg/L)	Toluene (MCL= 560 to 1000 µg/L)*	Ethylbenzene (MCL= 700 µg/L)	Xylenes (MCL= 1400 to 10000 µg/L)*	GRO (MCL = Detection - µg/L)	TDS (MCL = 487 ppm)**
12/29/2009	Water Unavailable for Sample Collection					
1/27/2010	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
4/28/2010	53	3.5	11	240	1600	NA
5/27/2010	40	<0.21	8.2	180	1400	460
6/24/2010	1.5	<0.21	0.43	3.2	<40	NA
7/29/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
8/30/2010	0.14	<0.21	<0.21	<0.43	<40	NA
9/30/2010	0.43	<0.21	0.39	1.9	<40	NA
10/27/2010	<0.13	<0.21	0.74	5.3	<40	NA
11/29/2010	Water Unavailable for Sample Collection					
4/28/2011	15	0.28	3.2	79	1100	NA
7/27/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
10/28/2011	Water Unavailable for Sample Collection					
3/19/2012	1.9	<0.30	0.57	8.2	210	NA
5/8/2012	<0.17	<0.30	<0.22	<0.56	<40	NA
7/25/2012	0.33	<0.16	<0.27	<0.86	<40	NA
11/1/2012	<0.33	<0.78	0.7	5.9	77	NA
3/26/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
5/8/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013 D	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013 S	<1.0	<1.0	<1.0	<3.0	<50	NA
10/15/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
10/15/2013 D	<1.0	<5.0	<1.0	<3.0	<100	NA
10/15/2013 S	<1.0	<5.0	<1.0	<3.0	<50	NA
3/25/2014	<1.0	<5.0	<1.0	<3.0	<100	NA
3/25/2014 D	<1.0	<5.0	<1.0	<3.0	<100	NA
5/22/2014	<1.0	<5.0	<1.0	<3.0	<100	NA
5/22/2014 D	<1.0	<5.0	<1.0	<3.0	<100	NA
Source 2 - Upstream (#3)						
6/19/2008	1100	9600	180	9500	NA	562
6/30/2008	960	12000	850	19000	150000	540
7/7/2008	27	120	5.0	1700	6000	NA
Latham - Trough (#4)						
6/30/2008	<0.5	<5.0	<0.5	<1.5	<100	360
7/2/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
7/7/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
7/31/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/7/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/14/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/21/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/28/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
9/4/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
9/19/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
10/15/2008	<0.5	<5.0	<0.5	1.7	<100	NA
11/20/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
7/2/2009	<0.16	<1.6	<0.16	<0.5	<33	370
7/29/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
8/27/2009	Water Unavailable for Sample Collection					
9/30/2009	<0.13	<0.21	<0.21	<0.43	<33	NA
10/27/2009	0.13	<0.21	<0.21	0.94	<40	NA

Comprehensive Laboratory Data Summary by Location (June 2008 - May 2014)

Sample Date	Benzene (MCL = 5.0 µg/L)	Toluene (MCL= 560 to 1000 µg/L)*	Ethylbenzene (MCL= 700 µg/L)	Xylenes (MCL= 1400 to 10000 µg/L)*	GRO (MCL = Detection - µg/L)	TDS (MCL = 487 ppm)**
11/24/2009	<0.13	<0.21	<0.21	0.61	<40	NA
12/29/2009	0.4	0.43	0.4	0.7	<40	NA
1/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
2/22/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
3/25/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
5/27/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
6/24/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
7/29/2010	Water Unavailable for Sample Collection					
8/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
9/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
10/27/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
11/29/2010	<0.13	<0.21	<0.21	0.83	<40	NA
3/30/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
7/27/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
10/28/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
11/16/2012	<0.17	<0.30	<0.22	<0.56	<40	NA
Latham Pump - Inside (#5)						
6/17/2008	<0.5	0.59	<0.5	0.56	<100	NA
4/16/2009	<0.16	<1.6	<0.16	0.51	<33	NA
Latham Dam 1 (#6)						
6/17/2008	87	830	24	1300	6200	NA
6/24/2008	110	490	32	1000	4000	370
6/30/2008	1.9	<5.0	<0.5	67	1100	390
7/7/2008	<0.5	<5.0	<0.5	70	740	NA
7/10/2008	15	66	<0.5	500	1300	NA
7/18/2008	11	8.9	<0.5	230	1100	NA
7/31/2008	<0.5	8.6	<0.5	97	380	NA
8/14/2008	<0.5	<5.0	<0.5	1.9	<100	NA
8/21/2008	0.73	<5.0	<0.5	4.3	<100	NA
8/28/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
S1 Trench (#7)						
6/19/2008	1400	3000	44	2900	NA	1062
6/24/2008	1300	3300	84	1500	11000	800
6/30/2008	1600	5800	160	5300	27000	790
7/7/2008	1300	4000	<0.5	3000	<50000	NA
7/10/2008	1400	5300	370	4800	<100	NA
7/18/2008	1100	3300	<0.5	2600	NA	620
7/31/2008	1000	2500	220	4300	15000	NA
8/14/2008	640	690	<0.5	2300	12000	NA
8/21/2008	2500	<2500	330	3100	<50000	NA
8/28/2008	890	1100	180	3400	12000	NA
9/19/2008	960	1000	200	3700	12000	NA
10/15/2008	740	780	120	2100	<10000	NA
11/20/2008	930	1600	200	4300	13000	NA
2/12/2009	770	640	290	5100	17000	NA
4/16/2009	89	<16.0	9.7	870	3000	NA
5/12/2009	190	<1.6	46	710	4100	NA
5/27/2009	94	<1.6	18	250	1300	NA
7/29/2009	60	<1.6	21	310	840	NA
8/27/2009	64	<1.6	22	280	1200	NA
9/30/2009	21	0.23	7.6	88	490	NA

Comprehensive Laboratory Data Summary by Location (June 2008 - May 2014)

Sample Date	Benzene (MCL = 5.0 µg/L)	Toluene (MCL= 560 to 1000 µg/L)*	Ethylbenzene (MCL= 700 µg/L)	Xylenes (MCL= 1400 to 10000 µg/L)*	GRO (MCL = Detection - µg/L)	TDS (MCL = 487 ppm)**
10/27/2009	130	0.88	44	670	2800	NA
11/24/2009	Water Unavailable for Sample Collection					
12/29/2009	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
4/28/2010	9.7	<0.21	4.8	370	250	562
5/27/2010	2.3	<0.21	<0.21	1.5	<40	520
6/24/2010	2.8	<0.21	<0.21	1.6	<40	NA
7/29/2010	<0.13	<0.21	<0.21	0.64	<40	NA
8/30/2010	4.1	<0.21	2.9	25	<40	NA
9/30/2010	2.3	<0.21	1.8	20	<40	NA
10/27/2010	1.6	<0.21	1.5	10	<40	NA
11/29/2010	Water Unavailable for Sample Collection					
3/30/2011	<0.13	<0.21	<0.21	3.2	44	NA
4/28/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
7/27/2011	7.0	<0.30	2.2	15	120	NA
10/28/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
3/19/2012	3.3	<0.30	1.0	6.5	<40	NA
5/8/2012	3.7	<0.30	0.99	7.4	<40	NA
7/25/2012	0.46	<0.16	<0.27	<0.86	<40	NA
11/1/2012	7.8	<0.78	<0.38	<1.1	45	NA
11/21/2012	0.79	<0.78	<0.38	<1.1	<31	NA
3/26/2013	5.2	<5.0	<1.0	<3.0	<100	NA
4/3/2013	<1.0	<5.0	<1.0	<3.0	NA	NA
4/3/2013 D	<1.0	<5.0	<1.0	<3.0	NA	NA
5/8/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013 D	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013 S	<1.0	<1.0	<1.0	<3.0	<50	NA
10/15/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
10/15/2013 D	<1.0	<5.0	<1.0	<3.0	<100	NA
10/15/2013 S	<1.0	<5.0	<1.0	<3.0	<50	NA
3/25/2014	<1.0	<5.0	<1.0	5.8	<100	NA
3/25/2014 D	<1.0	<5.0	<1.0	8.7	<100	NA
5/22/2014	<1.0	<5.0	<1.0	3.6	<100	NA
5/22/2014 D	<1.0	<5.0	<1.0	3.4	<100	NA
Latham S Source (#8)						
6/19/2008	730	1500	<0.5	3700	<100	NA
6/30/2008	1300	6000	140	6000	30000	640
7/7/2008	890	3500	<0.5	2700	<25000	NA
2/12/2009	270	28	57	790	3000	NA
Latham - Dam 2 (#9)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
6/17/2008	<0.5	1.7	<0.5	7.1	<100	NA
6/24/2008	1.1	56	<0.5	16	130	1300
6/30/2008	<0.5	<5.0	<0.5	<1.5	<100	890
7/7/2008	0.6	<5.0	<0.5	2.8	<100	1000
7/10/2008	<0.5	<5.0	<0.5	1.8	<100	NA
7/18/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
7/31/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/7/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/14/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/21/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/28/2008	<0.5	<5.0	<0.5	<1.5	<100	NA

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Sample Date	Benzene (MCL = 5.0 µg/L)	Toluene (MCL= 560 to 1000 µg/L)*	Ethylbenzene (MCL= 700 µg/L)	Xylenes (MCL= 1400 to 10000 µg/L)*	GRO (MCL = Detection - µg/L)	TDS (MCL = 487 ppm)**
9/4/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
9/11/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
9/19/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
10/15/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
11/6/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
2/12/2009	<0.5	<5.0	<0.5	<1.5	<100	800
4/16/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
4/23/2009	<0.16	<1.6	0.16	1.6	90	NA
4/30/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/6/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/12/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/21/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/27/2009	<0.16	<1.6	<0.16	0.71	<33	NA
6/10/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
6/16/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
6/23/2009	<0.16	<1.6	<0.16	<0.5	<33	510
7/2/2009	<0.16	<1.6	<0.16	<0.5	<33	530
7/29/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
8/27/2009	<0.16	16	<0.16	<0.5	<33	NA
9/30/2009	<0.13	<0.21	<0.21	<0.43	<33	NA
10/27/2009	<0.13	<0.21	<0.21	0.82	<40	NA
11/24/2009	Water Unavailable for Sample Collection					
12/29/2009	Water Unavailable for Sample Collection					
1/28/2010	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
5/27/2010	<0.13	<0.21	<0.21	<0.43	<40	440
6/24/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
7/29/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
8/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
9/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
10/27/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
11/29/2010	Water Unavailable for Sample Collection					
3/30/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
7/27/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
10/28/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
POC (#10)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
6/17/2008	<0.5	1.6	<0.5	<1.5	<100	NA
6/24/2008	<0.5	<5.0	<0.5	2.4	<100	350
6/30/2008	<0.5	<5.0	<0.5	<1.5	<100	370
7/7/2008	<0.5	<5.0	<0.5	<1.5	<100	370
7/10/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
7/24/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
7/31/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/7/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/14/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/21/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
8/28/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
9/4/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
9/11/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
9/19/2008	<0.5	<5.0	<0.5	1.5	<100	NA

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10/15/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
11/6/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
11/20/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
2/12/2009	<0.5	<5.0	<0.5	<1.5	<100	440
4/16/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
4/23/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
4/30/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/6/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/12/2009	0.16	<1.6	<0.16	1.0	<33	NA
5/21/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/27/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
6/10/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
6/16/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
6/23/2009	<0.16	<1.6	<0.16	<0.5	<33	370
7/2/2009	<0.16	<1.6	<0.16	<0.5	<33	370
7/29/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
8/27/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
9/30/2009	<0.13	<0.21	<0.21	<0.43	<33	NA
10/27/2009	<0.13	<0.21	<0.21	0.79	<40	NA
11/24/2009	<0.13	<0.21	<0.21	0.45	<40	NA
12/29/2009	0.48	0.50	0.33	0.76	<40	NA
1/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
2/22/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
3/25/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
5/27/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
6/24/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
7/29/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
8/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
9/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
10/27/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
11/29/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
3/30/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
4/28/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
7/27/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
10/28/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
3/19/2012	<0.17	<0.30	<0.22	<0.56	<40	NA
5/8/2012	<0.17	<0.30	<0.22	<0.56	<40	NA
7/25/2012	0.35	0.3	<0.27	<0.86	<40	NA
11/1/2012	<0.33	<0.78	<0.38	<1.1	<31	NA
3/26/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
5/8/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013 D	<1.0	<5.0	<1.0	<3.0	<100	NA
8/21/2013 S	<1.0	<1.0	<1.0	<3.0	<50	NA
10/15/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
10/15/2013 D	<1.0	<5.0	<1.0	<3.0	<100	NA
10/15/2013 S	<1.0	<5.0	<1.0	<3.0	<50	NA
3/25/2014	<1.0	<5.0	<1.0	<3.0	<100	NA
3/25/2014 D	<1.0	<5.0	<1.0	<3.0	<100	NA
5/22/2014	<1.0	<5.0	<1.0	<3.0	<100	NA
5/22/2014 D	<1.0	<5.0	<1.0	<3.0	<100	NA

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POC (#10u)						
3/25/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
S2 Trench (#11)						
7/7/2008	110	180	<0.50	210	1200	NA
7/10/2008	390	1500	81	2100	7400	NA
7/18/2008	560	2200	120	2700	17000	NA
7/31/2008	130	79	7.5	320	980	NA
8/14/2008	110	29	5.8	250	1200	NA
8/21/2008	360	520	77	1700	4700	NA
8/28/2008	85	24	6.5	180	620	NA
9/19/2008	230	220	45	840	2600	NA
10/15/2008	340	300	76	1300	4000	NA
11/6/2008	23	<5.0	1.4	20	170	NA
11/20/2008	<0.5	<5.0	<0.5	1.5	<100	NA
2/12/2009	570	<50.0	82	1400	5600	930
4/16/2009	33	<8.2	2.5	210	840	NA
5/12/2009	120	<1.6	11	260	1800	NA
5/27/2009	42	<1.6	3.6	66	460	NA
7/2/2009	18	<1.6	3.4	41	330	610
7/29/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
8/27/2009	13	<1.6	0.66	4.6	960	NA
9/30/2009	5.2	<0.21	0.46	4.9	62	NA
10/27/2009	42	0.34	3.5	44	330	NA
4/28/2010	6.7	<0.21	1.0	13	<40	NA
5/27/2010	1.8	<0.21	0.23	1.8	<40	NA
6/24/2010	2.1	<0.21	<0.21	2.3	<40	NA
7/29/2010	2.5	<0.21	<0.21	3.2	<40	NA
8/30/2010	3.5	<0.21	0.72	6.2	<40	NA
9/30/2010	3.9	<0.21	0.74	7.7	<40	NA
10/27/2010	9.1	<0.21	1.7	18	140	NA
3/30/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
7/27/2011	2.5	<0.30	<0.22	0.86	<40	NA
10/28/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
Upstream - South Y (#12)						
6/24/2008	<0.5	<5.0	<0.5	<1.5	<100	340
7/18/2008	<0.5	<5.0	<0.5	<1.5	<100	330
2/12/2009	<0.5	<5.0	<0.5	<1.5	<100	390
4/16/2009	<0.16	<1.6	<0.16	1.6	<33	NA
5/12/2009	<0.16	<1.6	<0.16	0.72	<33	NA
7/2/2009	<0.16	<1.6	<0.16	<0.5	<33	360
7/29/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
8/27/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
9/30/2009	<0.13	<0.21	<0.21	<0.43	<33	NA
10/27/2009	<0.13	<0.21	<0.21	1.00	<40	NA
11/24/2009	<0.13	<0.21	<0.21	<0.43	<40	NA
12/29/2009	0.42	0.43	0.35	0.78	<40	NA
1/28/2010	0.19	0.24	<0.21	1.2	<40	NA
2/22/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
3/25/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
5/27/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
6/24/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
7/29/2010	<0.13	<0.21	<0.21	<0.43	<40	NA

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8/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
9/30/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
10/27/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
11/29/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
12/30/2010	<0.13	0.23	<0.21	<0.43	<40	NA
3/30/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
4/28/2011	<0.13	<0.21	<0.21	<0.43	NA	NA
7/27/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
10/28/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
1/16/2012	<0.17	<0.30	<0.22	<0.56	<40	NA
Creek - South - 3 miles (#14)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
6/18/2008	0.43	0.65	<0.5	0.52	NA	NA
Creek - Guard Shack (Lower) (#15)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
6/17/2008	<0.5	0.63	<0.5	<1.5	NA	NA
6/18/2008	0.93	1.2	0.51	1.8	NA	NA
(#16)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
6/17/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
6/18/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
(#17)						
6/16/2008	0.33	0.91	<0.5	<1.5	NA	NA
6/17/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
6/18/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
(#20)						
6/17/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
6/18/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
4/23/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/12/2009	<0.16	<1.6	<0.16	0.59	<33	NA
5/27/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
6/10/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
7/29/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
8/27/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
Latham Spring Pond (#23)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
4/16/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
Lower Williams - Pond (#24)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
Joining Stream - Culvert (#25)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
7/18/2008	<0.5	<5.0	<0.5	<1.5	NA	480
Joining Stream - Upstream (#26)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
Lower Williams - Upstream - Culvert (#27)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA

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Lower Williams - Upstream - Upstream (#28)						
6/16/2008	<0.5	<5.0	<0.5	<1.5	NA	NA
Latham - Upstream - Spring (#31)						
6/17/2008	<0.5	<5.0	<0.5	<1.5	<100	NA
Latham Springs Pond (#32)						
6/17/2008	37	160	2.4	690	3000	NA
8/21/2008	20	<5.0	1.6	110	820	NA
8/28/2008	<0.5	<5.0	<0.5	2.2	<100	NA
5/12/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
7/29/2009	<0.16	<1.6	<0.16	<0.5	2300	NA
8/27/2009	21	<1.6	13	48	1400	NA
9/30/2009	4.7	0.55	4.8	21	630	NA
7/29/2010	2.1	<0.21	2.3	13	230	NA
8/30/2010	2.0	0.38	2.1	8.0	<40	NA
12/29/2009	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
9/30/2010	0.96	0.26	0.61	2.5	<40	NA
10/27/2010	1.7	<0.21	1.0	6.1	240	NA
11/29/2010	Water Unavailable for Sample Collection					
7/27/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
10/28/2011	0.24	<0.30	<0.22	0.91	93	NA
3/19/2012	<0.17	<0.30	<0.22	<0.56	<40	NA
4/8/2012	Water Unavailable for Sample Collection					
7/25/2012	Water Unavailable for Sample Collection					
11/1/2012	Water Unavailable for Sample Collection					
3/26/2013	Water Unavailable for Sample Collection					
5/8/2013	Water Unavailable for Sample Collection					
10/15/2013	<1.0	<5.0	<1.0	<3.0	<100	NA
10/15/2013 D	<1.0	<5.0	<1.0	<3.0	<100	NA
10/15/2013 S	<1.0	<5.0	<1.0	<3.0	<50	NA
3/25/2014	Water Unavailable for Sample Collection					
5/22/2014	Water Unavailable for Sample Collection					
Latham Spring - Fresh (#33)						
6/17/2008	<0.5	<5.0	<0.5	0.75	<100	NA
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
Lower Corral (#34)						
6/17/2008	<0.5	0.84	<0.5	<1.5	NA	NA
Creek (#37)						
6/16/2008	300	790	<0.5	2000	<100	NA
6/18/2008	530	290	4.2	540	NA	1436
7/2/2008	<0.5	<5.0	<0.5	15	200	NA
4/16/2009	7.9	2.0	2.4	71	350	NA
5/12/2009	12	<1.6	3.2	48	2900	NA
5/27/2009	20	<1.6	5.3	72	240	NA
12/29/2009	6.8	0.56	0.21	7.4	<40	NA
1/22/2010	Water Unavailable for Sample Collection					
3/25/2010	4.9	<0.21	1.2	9.1	<40	NA
4/28/2010	2.5	<0.21	1.1	13	<40	NA
5/27/2010	2.6	<0.21	1.3	8.3	<40	NA
6/24/2010	1.6	<0.21	0.43	3.2	<40	NA
7/29/2010	0.87	<0.21	<0.21	1.6	<40	NA
8/30/2010	0.49	<0.21	<0.21	0.8	<40	NA

Comprehensive Laboratory Data Summary by Location (June 2008 - May 2014)

Sample Date	Benzene (MCL = 5.0 µg/L)	Toluene (MCL= 560 to 1000 µg/L)*	Ethylbenzene (MCL= 700 µg/L)	Xylenes (MCL= 1400 to 10000 µg/L)*	GRO (MCL = Detection - µg/L)	TDS (MCL = 487 ppm)**
9/30/2010	0.16	<0.21	<0.21	<0.43	<40	NA
10/27/2010	0.68	<0.21	<0.21	1.3	<40	NA
11/29/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
3/30/2011	<0.13	<0.21	<0.21	<0.43	<40	NA
7/27/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
10/28/2011	<0.17	<0.30	<0.22	<0.56	<40	NA
Tributary - Southwest (#39)						
6/19/2008	790	2100	<0.5	5300	18000	NA
Core Spring A (39a)						
4/16/2009	<0.16	<1.6	<0.16	2.5	<33	NA
4/30/2009	<0.16	<1.6	<0.16	0.59	34	NA
5/12/2009	Water Unavailable for Sample Collection					
4/28/2010	<0.13	0.27	<0.21	<0.43	<40	NA
Core Spring B (39b)						
4/16/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
4/30/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/12/2009	2.1	<1.6	2.4	13	240	NA
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
Core Spring C (#39c)						
4/30/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
5/12/2009	0.24	<1.6	0.26	1.0	59	NA
11/24/2009	0.41	<0.21	<0.21	0.6	<40	NA
4/28/2010	<0.13	<0.21	<0.21	<0.43	<40	NA
Core Spring Confluence (conf-39)						
4/30/2009	<0.16	<1.6	<0.16	<0.5	<33	NA
7/29/2009	1.2	<1.6	1.3	9.0	170	NA
8/27/2009	2.6	<1.6	1.4	9.4	190	NA
9/30/2009	0.92	0.56	0.57	2.5	52	NA
10/27/2009	0.56	<0.21	<0.21	0.5	42	NA
11/24/2009	Water Unavailable for Sample Collection					
1/22/2010	Water Unavailable for Sample Collection					
5/27/2010	2.0	0.22	1.9	12	76	NA
6/24/2010	3.0	<0.21	2.5	12.0	260	NA
7/29/2010	4.6	1.2	4.5	17	520	NA
8/30/2010	4.8	0.46	4.5	21	140	NA
9/30/2010	3.8	0.98	3.6	14	110	NA
10/27/2010	1.8	<0.21	1.1	4.1	140	NA
Core Creek Seep (#39-seep)						
4/30/2009	3.3	<1.6	1.9	22	360	NA

Notes:

µg/L - micrograms per liter

MCL - maximum contaminant level

GRO - gasoline range organics

TDS - total dissolved solids

ppm - parts per million

*- the highest number within the range is the MCL

** - 1.25 x background measurement from location #12 on 2/12/09 (390 ppm)

D - Indicates duplicate sample

S - Indicates Split Sample

Comprehensive Field Parameter Summary by Location (June 2008 - May 2014)

Sample Date	pH	EC (mmohs)	Temperature (°F)	TDS (ppt)	DO (mg/L)	ORP (mV)
Latham - Upstream (#1)						
4/30/2009	8.34	0.660	47.6	370		
5/12/2009	8.26	0.740	49.6	365		
4/28/2010	8.39	0.536	44.7	266		
5/27/2010	7.80	0.586	46.9	290		
6/24/2010	Water Unavailable for Sample Collection					
7/29/2010	Water Unavailable for Sample Collection					
9/30/2010	Water Unavailable for Sample Collection					
4/28/2011	Water Unavailable for Sample Collection					
7/27/2011	Water Unavailable for Sample Collection					
Upstream - Conn Camp (#1u)						
4/30/2009	8.00	0.550	48.1	260		
5/12/2009	8.27	0.560	48.2	280		
7/29/2009	8.43	0.598	58.7	300		
8/27/2009	7.00	0.595	54.7	299		
9/30/2009	8.38	0.565	54.2	285	7.30	
4/28/2010	7.67	0.488	42.8	244		
6/24/2010	8.45	0.588	45.0	293		
7/29/2010	8.45	0.606	53.2	302		
8/30/2010	7.01	0.598	50.1	292		
9/30/2010	8.48	0.651	68.4	325		
4/28/2011	Water Unavailable for Sample Collection					
7/27/2011	Water Unavailable for Sample Collection					
N. Trench (#2)						
4/16/2009	7.47	0.924	42.6	468		
5/12/2009	7.74	0.713	56.9	362		
5/27/2009	7.84	1.231	54.4	575	0.32	71
6/23/2009					1.72	55
7/2/2009					2.66	214
7/29/2009	7.75	0.741	64.3	371	4.69	
8/27/2009	7.85	0.724	58.0	362		
9/30/2009	7.94	0.745	49.4	370	5.04	
10/27/2009	7.81	0.790	39.3	405		
11/24/2009	Water Unavailable for Sample Collection					
12/29/2009	Water Unavailable for Sample Collection					
1/27/2010	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
4/28/2010	7.72	0.755	49.8	377		
5/27/2010	6.30	0.701	54.0	352	3.57	170
6/24/2010	7.73	0.652	56.5	327		
7/29/2010	8.00	0.644	64.8	318		
8/30/2010	7.55	0.656	54.3	328		
9/30/2010	8.10	0.691	58.6	349		
10/27/2010	7.75	0.645	42.4	318		
11/29/2011	Water Unavailable for Sample Collection					
4/28/2011	7.52	0.614	47.3	306		
7/27/2011	7.51	0.536	54.5	267		
10/28/2011	Water Unavailable for Sample Collection					
4/8/2012	7.36	0.560	58.8	279		
7/25/2012	7.45	0.624	61.9	300		

Comprehensive Field Parameter Summary by Location (June 2008 - May 2014)

Sample Date	pH	EC (mmohs)	Temperature (°F)	TDS (ppt)	DO (mg/L)	ORP (mV)
11/1/2012	7.59	0.714	46.4	356		
3/26/2013	7.51	0.775	37.9	386		
5/8/2013	7.99	0.837	42.1	500		
8/21/2013	8.19	0.730	61.7	600	3.68	
10/15/2013	8.55	0.607	39.9	500	5.37	
3/25/2014	9.18	0.597	37.1		5.73	
5/22/2014	7.67	0.704	53.8	455	4.55	
Latham - Trough (#4)						
4/16/2009	7.99	0.601	41.0	303		
7/2/2009					3.20	200
7/29/2009	7.87	0.580	58.6	289	6.81	
8/27/2009	Water Unavailable for Sample Collection					
9/30/2009	8.02	0.229	49.4	112	9.60	
10/27/2009	7.83	0.649	41.9	323		
11/24/2009	7.94	0.650	42.5	325	8.80	
12/29/2009	7.91	0.650	41.3	335		
1/28/2010						
2/22/2010	7.98	0.692	37.9	345	NA	NA
3/25/2010	7.01	0.700	46.2	347		
4/28/2010	8.16	0.535	42.4	268		
5/27/2010	7.97	0.524	46.0	262		
6/24/2010	7.95	0.578	49.3	290		
7/29/2010	Water Unavailable for Sample Collection					
8/30/2010	7.47	0.597	48.6	298		
9/30/2010	7.80	0.614	52.5	306		
10/27/2010	7.65	0.626	45.9	313		
11/29/2010	7.88	0.644	40.7	324		
2/16/2011	7.99	0.622	40.6	331		
3/30/2011	7.94	0.619	44.0	310		
4/28/2011	7.80	0.527	44.5	262		
7/27/2011	7.74	0.540	47.7	270		
10/28/2011	7.75	0.882	33.9	439		
11/16/2012	NA	NA	NA	NA	NA	NA
Latham Pump - Inside (#5)						
4/16/2009	7.99	0.544	39.9	273		
S1 Trench (#7)						
4/16/2009	7.64	1.113	43.6	553		
5/12/2009	7.58	0.820	51.3	410		
5/27/2009	7.56	0.874	47.4	445	2.20	38
6/23/2009					3.65	80
7/2/2009					4.14	104
7/29/2009	7.71	0.845	69.8	420	4.31	
8/27/2009	8.68	0.861	59.4	430		
9/30/2009	7.86	0.793	51.3	396	5.20	
10/27/2009	7.60	0.901	33.8	452		
11/24/2009	Water Unavailable for Sample Collection					
12/29/2009	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
4/28/2010	7.87	1.013	49.5	562		
5/27/2010	7.78	0.879	53.1	433	5.41	180

Comprehensive Field Parameter Summary by Location (June 2008 - May 2014)

Sample Date	pH	EC (mmohs)	Temperature (°F)	TDS (ppt)	DO (mg/L)	ORP (mV)
6/24/2010	7.59	0.543	51.8	370		
7/29/2010	7.46	0.691	69.0	430		
8/30/2010	7.73	0.719	50.4	360		
9/30/2010	7.91	0.777	60.7	390		
10/27/2010	7.01	0.729	39.0	364		
11/29/2010	Water Unavailable for Sample Collection					
3/30/2011	7.25	1.018	51.3	510		
4/28/2011	7.52	0.863	54.4	433		
7/27/2011	7.53	0.812	50.2	406		
10/28/2011	7.74	0.882	33.9	439		
4/8/2012	7.47	0.794	62.6	410		
7/25/2012	7.24	0.890	66.6	447		
11/1/2012	7.30	0.925	46.8	460		
3/26/2013	7.31	1.043	45.3	500		
5/8/2013	8.03	0.575	45.9	500		
7/23/2013	7.91	0.592	65.1	700	12.10	
8/21/2013	8.04	0.843	63.9	600	2.29	
10/15/2013	8.40	0.990	43.2	700		
3/25/2014	8.36	1.109	49.8		4.08	
5/22/2014	7.71	0.954	52.3	624	5.70	
Latham - Dam 2 (#9)						
4/16/2009	8.11	0.853	45.5	348		
4/23/2009	8.45	0.970	54.1	505		
4/30/2009	8.60	0.830	57.9	438		
5/6/2009	8.80	0.470	59.0	375		
5/12/2009	8.91	0.740	60.8	370		
5/21/2009	8.64	1.773	54.8	902		
5/27/2009	8.72	0.905	53.0	455	5.30	34
6/10/2009	7.90	1.032	72.4	525		
6/16/2009	8.63	0.964	63.1	491	0.49	56
6/23/2009					2.84	105
7/2/2009					3.50	200
7/29/2009	8.53	0.933	76.6	465	5.43	
8/27/2009	7.97	0.959	66.2	476		
9/30/2009	8.54	1.084	58.8	544		
10/27/2009	8.48	1.095	32.5	547		
11/24/2009	Water Unavailable for Sample Collection					
12/29/2009	Water Unavailable for Sample Collection					
1/28/2010	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
4/28/2010	8.72	0.716	53.4	358		
5/27/2010	8.74	0.720	70.2	358	5.43	180
6/24/2010	8.48	0.193	63.0	404		
7/29/2010	7.51	0.737	82.5	368		
8/30/2010	8.68	0.781	53.1	392		
9/30/2010	8.68	0.882	67.8	412		
10/27/2010	7.01	0.964	35.3	483		
11/29/2010	Water Unavailable for Sample Collection					
3/30/2011	8.42	0.745	40.5	374		
4/28/2011	8.25	0.570	51.3	285		

Comprehensive Field Parameter Summary by Location (June 2008 - May 2014)

Sample Date	pH	EC (mmohs)	Temperature (°F)	TDS (ppt)	DO (mg/L)	ORP (mV)
7/27/2011	8.60	0.700	50.1	350		
10/28/2011	8.41	0.867	33.1	432		
POC (#10)						
4/16/2009	8.61	0.625	45.5	310		
4/23/2009	8.49	0.602	52.1	305		
4/30/2009	8.56	0.495	60.7	275		
5/6/2009	8.64	0.490	57.1	249		
5/12/2009	8.63	0.484	58.7	241		
5/21/2009	8.64	0.689	52.3	350		
5/27/2009	7.05	0.460	49.7	225	6.08	48
6/10/2009	7.05	0.499	52.2	260		
6/16/2009	8.69	0.560	60.6	287	0.50	64
6/23/2009					2.90	95
7/2/2009					5.50	206
7/29/2009	8.62	0.571	74.9	285	6.30	
8/27/2009	8.40	0.592	59.8	297		
9/30/2009	8.78	0.601	56.8	299	5.90	
10/27/2009	8.53	0.643	36.0	321		
11/24/2009	8.80	0.593	34.4	295	10.14	
12/29/2009	8.67	0.620	36.8	310		
1/28/2010						
2/22/2010	8.18	0.516	32.4	262		
3/25/2010	8.12	0.628	38.1	313		
4/28/2010	8.59	0.537	50.6	260		
5/27/2010	9.13	0.522	64.0	260		
6/24/2010	8.69	0.590	55.9	295		
7/29/2010	8.56	0.622	74.3	310		
8/30/2010	8.25	0.549	51.4	274		
9/30/2010	8.77	0.621	64.2	310		
10/27/2010	7.01	0.594	36.4	297		
11/29/2010	8.43	0.672	33.0	335		
12/30/2010	8.68	NA	32.2	NA		
3/30/2011	8.32	0.610	45.3	306		
4/28/2011	8.32	0.499	51.5	249		
7/27/2011	8.66	0.573	49.4	287		
10/28/2011	8.51	0.146	32.3	69		
4/8/2012	7.94	0.771	62.4	385		
7/25/2012	8.23	0.602	62.8	301		
11/1/2012	8.36	0.610	47.3	316		
3/26/2013	8.19	0.615	40.7	308		
5/8/2013	8.56	0.575	45.7	500		
7/23/2013	8.49	0.559	73.9	500	4.27	
8/21/2013	8.85	0.617	63.9	500	4.49	
10/15/2013	8.94	0.674	43.5	500	7.41	
3/25/2014	9.16	0.698	45.2		3.73	
5/22/2014	8.78	0.611	66.7	397	5.26	
POC (#10u)						
3/25/2010	8.00	0.670	44.1	339		
S2 Trench (#11)						
4/16/2009	7.70	1.183	44.2	590		
5/12/2009	7.74	0.965	51.0	480		

Comprehensive Field Parameter Summary by Location (June 2008 - May 2014)

Sample Date	pH	EC (mmohs)	Temperature (°F)	TDS (ppt)	DO (mg/L)	ORP (mV)
5/27/2009	7.68	0.920	49.9	290	2.00	41
6/23/2009					2.80	80
7/2/2009					4.62	109
7/29/2009	7.71	0.845	69.8	420	4.31	
8/27/2009	7.77	1.004	57.0	501		
9/30/2009	7.79	0.954	47.9	477	4.20	
10/27/2009	7.64	1.070	33.2	536		
11/24/2009	Water Unavailable for Sample Collection					
12/29/2009	Water Unavailable for Sample Collection					
1/28/2010	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
4/28/2010	7.97	1.126	49.0	562		
5/27/2010	7.99	1.054	59.5	530	5.85	180
6/24/2010	7.92	0.933	54.8	466		
7/29/2010	7.80	0.863	69.0	430		
8/30/2010	8.32	0.798	50.6	399		
9/30/2010	7.91	0.874	54.4	436		
10/27/2010	7.49	0.802	43.4	397		
11/29/2010						
3/30/2011	7.04	1.099	46.2	548		
4/28/2011	7.50	0.328	54.8	467		
7/27/2011	7.56	0.894	53.0	448		
10/28/2011	7.69	0.950	34.6	473		
Upstream - South Y (#12)						
4/16/2009	8.59	0.507	45.7	255		
4/30/2009	7.00	0.608	56.0	315		
5/12/2009	8.68	0.513	59.6	260		
7/2/2009					5.60	186
7/29/2009	8.61	2.330	73.7	116		
8/27/2009	8.58	0.556	60.0	278		
9/30/2009	8.82	0.555	56.7	277	7.28	
10/27/2009	8.64	0.596	36.4	298		
11/24/2009	8.75	0.571	34.7	285	9.87	
12/29/2009	8.30	0.602	37.5	300		
2/22/2010	8.25	0.643	32.9	314		
3/25/2010	8.09	0.604	39.6	300		
4/28/2010	8.72	0.512	52.1	256		
5/27/2010	9.14	0.510	61.2	255		
6/24/2010	8.66	0.586	55.9	291		
7/29/2010	6.68	0.576	74.1	288		
8/30/2010	8.46	0.529	51.5	256		
9/30/2010	8.60	0.591	64.2	293		
10/27/2010	7.01	0.546	35.0	274		
11/29/2010	8.40	0.630	33.5	315		
12/30/2010	8.50	NA	32.0	NA		
2/16/2011	8.45	0.607	36.8	302		
3/30/2011	8.29	0.585	44.8	292		
4/28/2011	8.36	0.500	51.1	249		
7/27/2011	8.49	0.550	49.2	274		
10/28/2011	8.52	0.116	32.1	63		

Comprehensive Field Parameter Summary by Location (June 2008 - May 2014)

Sample Date	pH	EC (mmohs)	Temperature (°F)	TDS (ppt)	DO (mg/L)	ORP (mV)
1/16/2012	NA	NA	NA	NA	NA	NA
(#20) Cow Paddy Pad (Trinidad Crossing)						
4/23/2009	8.67	1.160	55.4	618		
5/12/2009	8.86	0.495	59.5	250		
5/27/2009	8.89	0.474	53.2	240	5.69	42
6/10/2009	8.78	0.478	58.5	250		
7/29/2009	8.80	0.525	69.3	262		
8/27/2009	8.63	0.573	62.7	284		
Latham Spring Pond (#23)						
4/16/2009	8.06	0.488	40.3	243		
Latham Springs Pond (#32)						
5/12/2009	7.98	0.517	49.8	260		
7/29/2009	7.35	0.619	61.7	308	3.15	
8/27/2009	7.51	0.616	53.1	308		
9/30/2009	7.48	0.231	51.6	119	5.04	
10/27/2009	7.65	0.572	37.8	286		
11/24/2009	7.73	0.653	34.3	326	2.90	
12/29/2009	Water Unavailable for Sample Collection					
2/22/2010	Water Unavailable for Sample Collection					
3/25/2010	Water Unavailable for Sample Collection					
4/28/2010	8.03	0.532	44.6	266		
5/27/2010	7.87	0.538	53.2	272		
6/24/2010	7.79	0.549	53.3	276		
7/29/2010	7.57	0.649	64.9	322		
8/30/2010	7.61	0.589	51.1	293		
9/30/2010	7.44	0.595	54.7	296		
10/27/2010	7.39	0.596	43.7	295		
11/29/2010	Water Unavailable for Sample Collection					
12/30/2010	7.30	0.621	37.8	306		
4/28/2011	7.95	0.516	46.2	260		
7/27/2011	7.89	0.511	48.4	255		
10/28/2011	7.66	0.642	37.9	321		
4/8/2012	Water Unavailable for Sample Collection					
7/25/2012	Water Unavailable for Sample Collection					
11/1/2012	Water Unavailable for Sample Collection					
3/26/2013	Water Unavailable for Sample Collection					
5/8/2013	Water Unavailable for Sample Collection					
10/15/2013	9.70	0.251	44.4	100	4.93	
3/25/2014	Water Unavailable for Sample Collection					
5/22/2014	Water Unavailable for Sample Collection					
Latham Spring - Fresh (#33)						
4/28/2010	8.15	0.583	41.3	267		
Creek (#37)						
4/16/2009	8.34	0.696	42.4	348		
5/12/2009	7.58	0.554	52.2	279		
5/27/2009	8.20	0.905	50.2	270	4.83	-75
12/29/2009	8.03	0.764	33.1	381		
1/22/2010	Water Unavailable for Sample Collection					
3/25/2010	8.23	0.742	37.7	373		
4/28/2010	8.35	0.571	46.0	206		
5/27/2010	8.24	0.490	54.3	245		

Comprehensive Field Parameter Summary by Location (June 2008 - May 2014)

Sample Date	pH	EC (mmhos)	Temperature (°F)	TDS (ppt)	DO (mg/L)	ORP (mV)
6/24/2010	7.25	0.638	51.4	319		
7/29/2010	6.51	0.702	58.7	350		
8/30/2010	8.01	0.696	50.3	342		
9/30/2010	8.07	0.724	51.5	360		
10/27/2010	7.95	0.673	71.6	346		
11/29/2010	7.78	0.620	35.4	311		
3/30/2011	7.85	0.740	41.3	370		
4/28/2011	8.05	0.509	47.9	254		
7/27/2011	8.07	0.606	49.5	302		
10/28/2011	8.04	0.671	36.4	335		
Core Spring A (39a)						
4/16/2009	8.03	0.575	46.2	288		
4/30/2009	7.88	0.600	49.8	320		
5/12/2009	Water Unavailable for Sample Collection					
4/28/2010	7.33	0.526	47.0	260		
Core Spring B (39b)						
4/16/2009	8.03	0.630	44.6	318		
4/30/2009	7.97	0.485	48.5	265		
5/12/2009	8.01	0.629	53.7	325		
4/28/2010	8.17	0.485	44.5	243		
Core Spring C (#39c)						
4/30/2009	7.05	0.598	75.6	315		
5/12/2009	7.77	0.540	47.3	270		
11/24/2009	7.81	0.586	44.7	296	4.28	
4/28/2010	7.66	0.630	45.8	314		
Core Spring Confluence (conf-39)						
4/30/2009	8.53	0.513	58.0	265		
7/29/2009	6.97	0.686	73.8	341		
8/27/2009	8.28	0.676	75.1	337		
9/30/2009	8.40	0.612	55.9	305	5.90	
10/27/2009	8.02	0.699	42.4	346		
11/24/2009	Water Unavailable for Sample Collection					
1/22/2010	Water Unavailable for Sample Collection					
4/28/2010	8.55	0.516	54.9	239		
5/27/2010	8.20	0.520	52.2	260		
6/24/2010	8.18	0.535	64.2	268		
7/29/2010	7.86	0.649	63.4	329		
8/30/2010	7.01	0.586	50.0	292		
9/30/2010	8.04	0.594	65.6	297		
10/27/2010	7.92	0.558	45.2	280		
Core Creek Seep (#39-seep)						
4/30/2009	7.57	0.625	48.6	345		

Notes:

EC - Electroconductivity

mmhos - millimhos

TDS - total dissolved solids

ppt - parts per thousand

DO - Dissolved oxygen

mg/L - milligrams per liter

ORP - Oxidation reduction potential

NA - Indicates field instrument malfunction

Blank - Indicates no readings were taken