

Tables 1-16

Table 1: Non-detect Parameters at Sherman, Slate and Johnson Creek Stations

SHERMAN CREEK								
SH109			SH113			SH105		
<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>
D-Arsenic	<2.5	ug/L	D-Arsenic	<2.5	ug/L	Ammonia	<0.1	mg/L
D-Cadmium	<0.1	ug/L	D-Cadmium	<0.1	ug/L	D-Arsenic	<2.5	ug/L
D-Chromium	<2.5	ug/L	D-Chromium	<2.5	ug/L	D-Cadmium	<0.1	ug/L
D-Iron	<0.05	mg/L	D-Lead	<0.16	ug/L	D-Chromium	<2.5	ug/L
D-Lead	<0.16	ug/L	D-Selenium	<1	ug/L	D-Iron	<0.05	mg/L
D-Nickel	<1	ug/L	D-Silver	<0.1	ug/L	D-Lead	<0.16	ug/L
D-Selenium	<1	ug/L				D-Selenium	<1	ug/L
D-Silver	<0.1	ug/L				D-Silver	<0.1	ug/L

SLATE CREEK								
MLA			SLB			SLC		
<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>
Nitrate as N	<0.05	mg/L	D-Arsenic	<2.5	ug/L	D-Arsenic	<2.5	ug/L
TSS	<5	mg/L	D-Chromium	<2.5	ug/L	D-Chromium	<2.5	ug/L
D-Arsenic	<2.5	ug/L	D-Lead	<0.16	ug/L	D-Lead	<0.16	ug/L
D-Cadmium	<0.1	ug/L	D-Selenium	<1	ug/L	D-Selenium	<1	ug/L
D-Chromium	<2.5	ug/L	D-Silver	<0.1	ug/L	D-Silver	<0.1	ug/L
D-Copper	<1	ug/L						
D-Lead	<0.16	ug/L						
D-Nickel	<1	ug/L						
D-Selenium	<1	ug/L						
D-Silver	<0.1	ug/L						

JOHNSON CREEK								
JS-2			JS-5			JS-4		
<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>
Ammonia	<0.1	mg/L	Ammonia	<0.1	mg/L	D-Arsenic	<2.5	ug/L
Chloride	<1	mg/L	D-Arsenic	<2.5	ug/L	D-Cadmium	<0.1	ug/L
TSS	<5	mg/L	D-Cadmium	<0.1	ug/L	D-Chromium	<2.5	ug/L
Color	<5	Color Unit	D-Chromium	<2.5	ug/L	D-Iron	<0.05	mg/L
D-Arsenic	<2.5	ug/L	D-Iron	<0.05	mg/L	D-Lead	<0.16	ug/L
D-Cadmium	<0.1	ug/L	D-Lead	<0.16	ug/L	D-Nickel	<1	ug/L
D-Chromium	<2.5	ug/L	D-Nickel	<1	ug/L	D-Selenium	<1	ug/L
D-Iron	<0.05	mg/L	D-Selenium	<1	ug/L	D-Silver	<0.1	ug/L
D-Lead	<0.16	ug/L	D-Silver	<0.1	ug/L			
D-Nickel	<1	ug/L						
D-Selenium	<1	ug/L						
D-Silver	<0.1	ug/L						
D-Zinc	<2.5	ug/L						

Table 2: Non-detect Parameters at Ophir Creek and Outfall 001 & 002 Stations

OPHIR CREEK					
SH111			SH103		
<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>
Ammonia	<0.1	mg/L	Ammonia	<0.1	mg/L
Chloride	<1	mg/L	Chloride	<1	mg/L
TSS	<5	mg/L	D-Arsenic	<2.5	ug/L
D-Arsenic	<2.5	ug/L	D-Cadmium	<0.1	ug/L
D-Cadmium	<0.1	ug/L	D-Chromium	<2.5	ug/L
D-Chromium	<2.5	ug/L	D-Copper	<1	ug/L
D-Iron	<0.05	mg/L	D-Iron	<0.05	mg/L
D-Lead	<0.16	ug/L	D-Lead	<0.16	ug/L
D-Manganese	<1	ug/L	D-Mercury	<0.001	ug/L
D-Mercury	<0.001	ug/L	D-Nickel	<1	ug/L
D-Nickel	<1	ug/L	D-Selenium	<1	ug/L
D-Selenium	<1	ug/L	D-Silver	<0.1	ug/L
D-Silver	<0.1	ug/L	D-Zinc	<2.5	ug/L
D-Zinc	<2.5	ug/L			

OUTFALL 001					
001 Effluent			001 Influent		
<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>
TR-Arsenic	<2.5	ug/L	No parameter remained non-detect for all of 2010		
TR-Cadmium	<0.1	ug/L			
TR-Silver	<0.1	ug/L			
OUTFALL 002*					
002 Effluent					
<u>Parameter</u>	<u>PQL</u>	<u>Units</u>	<u>Parameter</u>	<u>PQL</u>	<u>Units</u>
Arsenic	<2.5	ug/L	TR-Lead	<0.16	ug/L
Chromium	<2.5	ug/L	TR-Selenium	<1	ug/L
TR-Copper	<1	ug/L	TR-Silver	<0.1	ug/L
TR-Silver	<0.1	ug/L	T-Mercury	<0.001	ug/L

*Discharge occurred only during December in 2010

Table 3: Potential Outliers identified from Variance Tables 2010

Parameter	Value	Units	Date	Site	Average
Copper	6.0	ug/L	1/5/2010	001 Effluent	2ug/L
Dissolved oxygen	7.08	mg/L	1/26/2010	001 Effluent	12mg/L
Turbidity	21	NTU	3/9/2010	SLB	1.48ntu
Turbidity	13	NTU	3/9/2010	SLC	1.02ntu
TR Potassium	1.73	mg/L	4/6/2010	001 Effluent	0.79mg/L
Chloride	8.0	mg/L	5/17/2010	SLB	1.3mg/L
TSS	14	mg/L	6/9/2010	001 Effluent	4.3mg/L
TDS	318	mg/L	6/14/2010	JS-2	24.7mg/L
Ammonia	2.2	mg/L	8/3/2010	001 Effluent	0.23mg/L
Chloride	14	mg/L	8/11/2010	SH113	3.9mg/L
Manganese	151	ug/L	8/11/2010	SH113	19ug/L
Color	70	CU	8/12/2010	SH109	8.5cu
Ammonia	3.3	mg/L	8/24/2010	001 Effluent	0.24mg/L
Dissolved oxygen	7.8	mg/L	8/24/2010	001 Effluent	12mg/L
Nitrate	5.2	mg/L	8/24/2010	001 Effluent	0.74mg/L
Ammonia	4.5	mg/L	9/7/2010	001 Effluent	0.24mg/L
Nitrate	7.3	mg/L	9/7/2010	001 Effluent	0.8mg/L
TDS	470	mg/L	9/13/2010	SH105	69mg/L
Ammonia	2.53	mg/L	9/28/2010	001 Effluent	0.25mg/L
pH	6.88	su	10/12/2010	001 Effluent	8.06su
TDS	146	mg/L	10/25/2010	SLB	66mg/L
Aluminum	52.4	ug/L	11/4/2010	JS-4	13ug/L
Aluminum	31.3	ug/L	11/4/2010	JS-5	7.7ug/L
TSS	16.4	mg/L	11/6/2010	001 Effluent	4.3mg/L
Conductivity	358	umhos/cm	12/6/2010	SLB	102umhos/cm
Hardness	138	mg/L	12/6/2010	SLB	45.6mg/L
Sulfate	85.6	mg/L	12/6/2010	SLB	5.8mg/L
TDS	225	mg/L	12/6/2010	SLB	66.5mg/L
Conductivity	235	umhos/cm	12/6/2010	SLC	103umhos/cm
Sulfate	42.7	mg/L	12/6/2010	SLC	5.2mg/L
Aluminum	214	ug/L	12/6/2010	MLA	60ug/L
Dissolved oxygen	17.6	mg/L	12/9/2010	JS-2	12.2mg/L
TSS	19.6	mg/L	12/18/2010	001 Effluent	4.3mg/L

Table 3A: Potential Outliers identified from Variance Tables 2010

Parameter	Value	Units	Date	Site	Average
TR Manganese	181	ug/L	2/19/2010	001 Effluent	49ug/L
TR Manganese	180	ug/L	2/23/2010	001 Effluent	49ug/L
TR Manganese	148	ug/L	3/2/2010	001 Effluent	49ug/L
Diss. Manganese	228	ug/L	3/9/2010	SLB	26.9ug/L
Diss. Manganese	138	ug/L	3/9/2010	SLC	14ug/L
TR Manganese	150	ug/L	4/6/2010	001 Effluent	51ug/L
TR Manganese	167	ug/L	4/13/2010	001 Effluent	51ug/L
TR Manganese	150	ug/L	4/20/2010	001 Effluent	52ug/L
TR Manganese	191	ug/L	5/4/2010	001 Effluent	52ug/L
TR Manganese	172	ug/L	5/6/2010	001 Effluent	53ug/L
TR Manganese	176	ug/L	5/11/2010	001 Effluent	53ug/L
TR Manganese	179	ug/L	5/18/2010	001 Effluent	54ug/L
TR Manganese	222	ug/L	7/20/2010	001 Effluent	56ug/L
TR Manganese	252	ug/L	8/3/2010	001 Effluent	57ug/L
TR Manganese	321	ug/L	8/10/2010	001 Effluent	57ug/L
Diss. Manganese	151	ug/L	8/11/2010	SH113	19ug/L
TR Manganese	538	ug/L	8/12/2010	001 Effluent	58/ug/L
TR Manganese	431	ug/L	8/17/2010	001 Effluent	60ug/L
TR Manganese	314	mg/L	8/24/2010	001 Effluent	61ug/L
TR Manganese	447	ug/L	9/7/2010	001 Effluent	62ug/L
TR Manganese	420	ug/L	9/14/2010	001 Effluent	63ug/L
TR Manganese	349	ug/L	9/16/2010	001 Effluent	65ug/L
TR Manganese	468	ug/L	9/21/2010	001 Effluent	65ug/L
TR Manganese	320	ug/L	9/28/2010	001 Effluent	66ug/L
TR Manganese	512	ug/L	10/5/2010	001 Effluent	67ug/L
TR Manganese	304	ug/L	10/26/2010	001 Effluent	69ug/L
TR Manganese	426	ug/L	11/3/2010	001 Effluent	70ug/L

Table 4: Station JS2 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.4	6.7	6.3	12	0	0.0%	3.30	2.1
Dissolved Oxygen	mg/L	11.3	17.57	6.27	12	0	0.0%	13.73	1.6
pH	pH	0	8.3	8.3	11	0	0.0%	7.06	0.4
Conductivity	umhos/cm	29.6	50.5	20.9	12	0	0.0%	39.95	6.3
Turbidity	NTU	0.1	0.6	0.5	12	0	0.0%	0.26	0.1
Nitrate as N	mg/L	<0.05	0.28	0.28	12	1	8.3%	0.16	0.1
Ammonia as N	mg/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Sulfate	mg/L	0.84	2.2	1.36	12	0	0.0%	1.52	0.4
Chloride	mg/L	<1	<1	0	12	12	100.0%	0.00	0.0
Total Dissolved Solids	mg/L	14	318	304	12	0	0.0%	47.17	85.5
Total Suspended Solids	mg/L	<4	<4	0	12	12	100.0%	0.00	0.0
Hardness, Total	mg/L	11.1	18.9	7.8	12	0	0.0%	15.09	2.5
Dissolved Aluminum	ug/L	1.7	12.2	10.5	12	0	0.0%	4.37	3.2
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.1	1.1	12	11	91.7%	0.09	0.0
Dissolved Iron	mg/L	<0.05	<0.05	0	12	12	100.0%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	<1	1.6	1.6	12	6	50.0%	0.70	0.2
Mercury Dissolved	ug/L	<0.001	0.001	0.001	12	11	91.7%	0.00	0.0
Dissolved Nickel	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Color	color unit	<5	<5	0	12	12	100.0%	0.00	0.0

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 5: Station JS5 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.6	6.9	6.3	12	0	0.0%	3.33	2.1
Dissolved Oxygen	mg/L	11.27	14.52	3.25	12	0	0.0%	13.46	1.0
pH	pH	7.28	8.4	1.12	12	0	0.0%	7.85	0.3
Conductivity	umhos/cm	45.9	114.1	68.2	12	0	0.0%	73.65	22.3
Turbidity	NTU	0.2	1.8	1.6	12	0	0.0%	0.56	0.4
Nitrate as N	mg/L	0.07	0.299	0.229	12	0	0.0%	0.21	0.1
Ammonia as N	mg/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Sulfate	mg/L	2.6	10.8	8.2	12	0	0.0%	5.32	2.4
Chloride	mg/L	<1	1	1	12	8	66.7%	0.33	0.0
Total Dissolved Solids	mg/L	14	67	53	12	0	0.0%	36.83	14.1
Total Suspended Solids	mg/L	<4	4	4	12	11	91.7%	0.33	0.0
Hardness, Total	mg/L	18.1	45.5	27.4	12	0	0.0%	29.58	10.6
Dissolved Aluminum	ug/L	3.7	31.3	27.6	12	0	0.0%	11.85	7.9
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.3	1.3	12	11	91.7%	0.11	0.1
Dissolved Iron	mg/L	<0.05	<0.05	0	12	12	100.0%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	1.2	3.6	2.4	12	0	0.0%	2.27	0.7
Mercury Dissolved	ug/L	<0.001	0.0013	0.0013	12	11	91.7%	0.00	0.0
Dissolved Nickel	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	7.5	7.5	12	10	83.3%	0.86	1.4
Color	color unit	<5	10	10	12	8	66.7%	2.08	1.4

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 6: Station JS4 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.6	7.2	6.6	12	0	0.0%	3.48	2.1
Dissolved Oxygen	mg/L	11.68	14.35	2.67	12	0	0.0%	13.28	1.0
pH	pH	6.87	8.27	1.4	12	0	0.0%	7.76	0.4
Conductivity	umhos/cm	51.3	117.7	66.4	12	0	0.0%	86.73	22.9
Turbidity	NTU	0.3	3.1	2.8	12	0	0.0%	0.97	0.9
Nitrate as N	mg/L	0.09	0.302	0.212	12	0	0.0%	0.21	0.1
Ammonia as N	mg/L	<0.1	0.1	0.1	12	10	83.3%	0.02	0.0
Sulfate	mg/L	3.4	11.4	8.0	12	0	0.0%	6.68	2.7
Chloride	mg/L	<1	1	1	12	7	58.3%	0.42	0.0
Total Dissolved Solids	mg/L	31	72	41	12	0	0.0%	50.92	12.6
Total Suspended Solids	mg/L	<4	7.6	7.6	12	10	83.3%	1.10	1.1
Hardness, Total	mg/L	21.1	53.4	32.3	12	0	0.0%	35.70	11.5
Dissolved Aluminum	ug/L	5.5	52.4	46.9	12	0	0.0%	18.03	13.3
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.5	1.5	12	10	83.3%	0.23	0.2
Dissolved Iron	mg/L	<0.05	<0.05	0	12	12	100.0%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	1.2	14.3	13.1	12	0	0.0%	5.43	4.1
Mercury Dissolved	ug/L	<0.001	0.0023	0.0023	11	8	72.7%	0.00	0.0
Dissolved Nickel	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	4.1	4.1	12	10	83.3%	0.56	0.5
Color	color unit	<5	15	15	12	4	33.3%	6.25	4.5

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 7: Station MLA 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.1	12.5	12.4	12	0	0.0%	5.48	4.7
Dissolved Oxygen	mg/L	9	14.76	5.76	12	0	0.0%	11.65	1.6
pH	pH	7.04	8.55	1.51	12	0	0.0%	7.62	0.4
Conductivity	umhos/cm	83.9	143.6	59.7	12	0	0.0%	110.35	20.8
Turbidity	NTU	0.3	1.8	1.5	12	0	0.0%	0.87	0.4
Nitrate as N	mg/L	<0.05	<0.05	0	12	12	100.0%	0.00	0.0
Ammonia as N	mg/L	<0.1	0.2	0.2	12	10	83.3%	0.03	0.0
Sulfate	mg/L	1.9	4	2.1	12	0	0.0%	2.38	0.5
Chloride	mg/L	<1	1.59	1.59	12	2	16.7%	0.93	0.2
Total Dissolved Solids	mg/L	36	90	54	12	0	0.0%	60.92	14.5
Total Suspended Solids	mg/L	<4	<4	0	12	12	100.0%	0.00	0.0
Hardness, Total	mg/L	35.1	70.3	35.2	12	0	0.0%	49.83	10.9
Dissolved Aluminum	ug/L	21.1	214	192.9	12	0	0.0%	79.53	48.7
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Iron	mg/L	<0.05	0.193	0.193	12	1	8.3%	0.13	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	13.1	45.3	32.2	12	0	0.0%	26.68	11.8
Mercury Dissolved	ug/L	<0.001	0.0026	0.0026	12	3	25.0%	0.00	0.0
Dissolved Nickel	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	4.2	4.2	12	8	66.7%	1.01	0.5
Color	color unit	15	80	65	12	0	0.0%	51.25	19.2

Table 8: Station SLB 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.5	10.4	9.9	12	0	0.0%	5.11	3.8
Dissolved Oxygen	mg/L	10.31	15.09	4.78	12	0	0.0%	12.42	1.6
pH	pH	7.73	8.48	0.75	12	0	0.0%	8.04	0.2
Conductivity	umhos/cm	78.7	358	279.3	12	0	0.0%	134.28	74.1
Turbidity	NTU	0.4	21	20.6	12	0	0.0%	3.1	5.8
Nitrate as N	mg/L	<0.05	0.359	0.359	12	9	75.0%	0.04	0.1
Ammonia as N	mg/L	<0.1	0.22	0.22	12	11	91.7%	0.02	0.0
Sulfate	mg/L	2.31	85.6	83.29	12	0	0.0%	12.16	23.6
Chloride	mg/L	<1	8	8	12	2	16.7%	1.86	2.1
Total Dissolved Solids	mg/L	29	225	196	12	0	0.0%	86.50	54.4
Total Suspended Solids	mg/L	<4	8	8	12	11	91.7%	0.67	1.2
Hardness, Total	mg/L	35.7	138	102.3	12	0	0.0%	58.35	27.4
Dissolved Aluminum	ug/L	21.5	101	79.5	12	0	0.0%	58.58	26.5
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	0.2	0.2	12	9	75.0%	0.03	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	2.5	2.5	12	7	58.3%	0.71	0.5
Dissolved Iron	mg/L	<0.05	0.247	0.247	12	1	8.3%	0.13	0.1
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	1.5	228	226.5	12	0	0.0%	36.73	64.2
Mercury Dissolved	ug/L	<0.001	0.0026	0.0026	12	3	25.0%	0.00	0.0
Dissolved Nickel	ug/L	<1	2	2	12	8	66.7%	0.54	0.3
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	13.7	13.7	12	1	8.3%	5.78	3.2
Color	color unit	<5	80	80	12	1	8.3%	45.83	23.8

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 9: Station SLC 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.5	8.8	8.3	12	0	0.0%	4.42	3.2
Dissolved Oxygen	mg/L	10.31	13.79	3.48	12	0	0.0%	12.43	1.2
pH	pH	7.4	8.16	0.76	12	0	0.0%	7.92	0.2
Conductivity	umhos/cm	81.6	235	153.4	12	0	0.0%	125.08	39.4
Turbidity	NTU	0.4	12.9	12.5	12	0	0.0%	2.00	3.5
Nitrate as N	mg/L	<0.05	0.171	0.171	12	11	91.7%	0.01	0.0
Ammonia as N	mg/L	<0.1	0.17	0.17	12	11	91.7%	0.01	0.0
Sulfate	mg/L	2.6	42.7	40.1	12	0	0.0%	8.66	11.0
Chloride	mg/L	<1	4	4	12	1	8.3%	1.93	0.9
Total Dissolved Solids	mg/L	43	145	102	12	0	0.0%	70.17	28.0
Total Suspended Solids	mg/L	<4	5	5	12	11	91.7%	0.42	0.3
Hardness, Total	mg/L	38.1	87.7	49.6	12	0	0.0%	53.75	13.8
Dissolved Aluminum	ug/L	18.5	68.8	50.3	12	0	0.0%	41.94	14.2
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	0.1	0.1	12	11	91.7%	0.01	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.9	1.9	12	9	75.0%	0.34	0.3
Dissolved Iron	mg/L	<0.05	0.154	0.154	12	3	25.0%	0.06	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	<1	138	138	12	3	25.0%	19.11	38.6
Mercury Dissolved	ug/L	<0.001	0.002	0.002	12	4	33.3%	0.00	0.0
Dissolved Nickel	ug/L	<1	1.2	1.2	12	11	91.7%	0.10	0.1
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	6.8	6.8	12	4	33.3%	2.82	1.5
Color	color unit	15	60	45	12	0	0.0%	35.42	12.5

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 10: Station SH109 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.3	7.5	7.2	12	0	0.0%	2.83	2.3
Dissolved Oxygen	mg/L	10.79	14.09	3.3	12	0	0.0%	12.46	1.0
pH	pH	6.57	8.02	1.45	12	0	0.0%	7.74	0.4
Conductivity	umhos/cm	54.5	125.9	71.4	12	0	0.0%	90.91	24.8
Turbidity	NTU	0.14	2.64	2.5	12	0	0.0%	0.71	0.8
Nitrate as N	mg/L	<0.05	0.32	0.32	12	3	25.0%	0.13	0.1
Ammonia as N	mg/L	<0.1	0.1	0.1	12	11	91.7%	0.01	0.0
Sulfate	mg/L	2.7	9.9	7.2	12	0	0.0%	6.15	2.5
Chloride	mg/L	<1	1	1	12	11	91.7%	0.08	0.0
Total Dissolved Solids	mg/L	33	92	59	12	0	0.0%	55.50	20.4
Total Suspended Solids	mg/L	<4	7.2	7.2	12	9	75.0%	1.43	1.0
Hardness, Total	mg/L	20.9	52.5	31.6	12	0	0.0%	38.23	10.4
Dissolved Aluminum	ug/L	5.8	32.7	26.9	12	0	0.0%	12.46	8.3
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.7	1.7	12	8	66.7%	0.44	0.2
Dissolved Iron	mg/L	<0.05	<0.05	0	12	12	100.0%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	<1	1.5	1.5	12	8	66.7%	0.39	0.2
Mercury Dissolved	ug/L	<0.001	0.0016	0.0016	12	11	91.7%	0.00	0.0
Dissolved Nickel	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	2.9	2.9	12	11	91.7%	0.24	0.1
Color	color unit	<5	70	70	12	6	50.0%	10.42	18.6

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 11: Station SH113 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.3	8.8	8.5	12	0	0.0%	3.45	2.7
Dissolved Oxygen	mg/L	10.79	14.59	3.8	12	0	0.0%	12.58	1.0
pH	pH	7.37	7.79	0.42	12	0	0.0%	7.61	0.1
Conductivity	umhos/cm	92	316	224	12	0	0.0%	182.01	73.5
Turbidity	NTU	0.24	5.47	5.23	12	0	0.0%	1.16	1.5
Nitrate as N	mg/L	0.1	0.77	0.67	12	0	0.0%	0.29	0.2
Ammonia as N	mg/L	<0.1	0.55	0.55	12	8	66.7%	0.10	0.1
Sulfate	mg/L	9.2	53.3	44.1	12	0	0.0%	24.28	13.7
Chloride	mg/L	2	14	12	12	0	0.0%	5.73	3.7
Total Dissolved Solids	mg/L	32	144	112	12	0	0.0%	95.92	37.8
Total Suspended Solids	mg/L	<4	13.2	13.2	12	9	75.0%	2.55	3.4
Hardness, Total	mg/L	34.9	119	84.1	12	0	0.0%	73.38	29.8
Dissolved Aluminum	ug/L	4.1	45.1	41	12	0	0.0%	15.60	12.6
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.7	1.7	12	9	75.0%	0.38	0.3
Dissolved Iron	mg/L	<0.05	0.052	0.052	12	11	91.7%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	15.5	151	135.5	12	0	0.0%	50.99	44.2
Mercury Dissolved	ug/L	<0.001	0.0021	0.0021	12	9	75.0%	0.00	0.0
Dissolved Nickel	ug/L	<1	1.8	1.8	12	9	75.0%	0.34	0.2
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	6.5	6.5	12	7	58.3%	1.63	1.2
Color	color unit	<5	30	30	12	5	41.7%	7.08	7.9

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 12: Station SH105 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.1	8.2	8.1	12	0	0.0%	3.03	2.7
Dissolved Oxygen	mg/L	11.62	15.06	3.44	12	0	0.0%	13.32	1.0
pH	pH	7.09	8.01	0.92	12	0	0.0%	7.64	0.3
Conductivity	umhos/cm	20	176.9	156.9	12	0	0.0%	99.83	42.6
Turbidity	NTU	0.12	2.41	2.29	12	0	0.0%	0.82	0.8
Nitrate as N	mg/L	0.1	0.37	0.27	12	0	0.0%	0.19	0.1
Ammonia as N	mg/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Sulfate	mg/L	5.4	27.7	22.3	12	0	0.0%	13.75	7.6
Chloride	mg/L	1	6	5	12	0	0.0%	2.58	1.4
Total Dissolved Solids	mg/L	<10	470	470	12	1	8.3%	99.17	120.7
Total Suspended Solids	mg/L	<4	11.2	11.2	12	11	91.7%	0.93	2.1
Hardness, Total	mg/L	28.5	73.3	44.8	12	0	0.0%	45.93	15.9
Dissolved Aluminum	ug/L	7.2	71.6	64.4	12	0	0.0%	26.13	20.1
Dissolved Arsenic	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	12	12	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.8	1.8	12	7	58.3%	0.62	0.3
Dissolved Iron	mg/L	<0.05	0.063	0.063	12	10	83.3%	0.01	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	3.4	23.1	19.7	12	0	0.0%	8.44	5.7
Mercury Dissolved	ug/L	<0.001	0.0021	0.0021	12	8	66.7%	0.00	0.0
Dissolved Nickel	ug/L	<1	1.2	1.2	12	11	91.7%	0.10	0.1
Dissolved Selenium	ug/L	<1	<1	0	12	12	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	3.1	3.1	12	9	75.0%	0.73	0.2
Color	color unit	<5	40	40	12	4	33.3%	12.50	12.4

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 13: Station SH111 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	1.1	4.6	3.5	4	0	0.0%	3.43	1.6
Dissolved Oxygen	mg/L	11.57	13.75	2.18	4	0	0.0%	12.48	1.0
pH	pH	7.53	7.94	0.41	4	0	0.0%	7.75	0.2
Conductivity	umhos/cm	47.3	59	11.7	4	0	0.0%	52.50	4.9
Turbidity	NTU	0.18	0.5	0.32	4	0	0.0%	0.33	0.2
Nitrate as N	mg/L	0.05	0.389	0.339	4	0	0.0%	0.23	0.1
Ammonia as N	mg/L	<0.1	<0.1	0	4	4	100.0%	0.00	0.0
Sulfate	mg/L	1.9	2.33	0.43	4	0	0.0%	2.11	0.2
Chloride	mg/L	<1	<1	0	4	4	100.0%	0.00	0.0
Total Dissolved Solids	mg/L	12	125	113	4	0	0.0%	51.50	50.5
Total Suspended Solids	mg/L	<4	<5	0	4	4	100.0%	0.00	0.5
Hardness, Total	mg/L	18.6	23.5	4.9	4	0	0.0%	20.45	2.3
Dissolved Aluminum	ug/L	2.8	10	7.2	4	0	0.0%	6.63	3.7
Dissolved Arsenic	ug/L	<2.5	<2.5	0	4	4	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	4	4	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	4	4	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.6	1.6	4	3	75.0%	0.40	0.3
Dissolved Iron	mg/L	<0.05	<0.05	0	4	4	100.0%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	4	4	100.0%	0.00	0.0
Dissolved Manganese	ug/L	<1	<1	0	4	4	100.0%	0.00	0.0
Mercury Dissolved	ug/L	<0.001	<0.001	0	4	4	100.0%	0.00	0.0
Dissolved Nickel	ug/L	<1	<1	0	4	4	100.0%	0.00	0.0
Dissolved Selenium	ug/L	<1	<1	0	4	4	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	4	4	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	2.5	2.5	4	3	75.0%	0.63	0.0
Color	color unit	<5	5	5	4	3	75.0%	1.25	0.0

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 14: Station SH103 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.6	4.9	4.3	4	0	0.0%	3.53	2.0
Dissolved Oxygen	mg/L	11.32	13.56	2.24	4	0	0.0%	12.56	0.9
pH	pH	7.23	7.65	0.42	4	0	0.0%	7.48	0.2
Conductivity	umhos/cm	63.9	164.7	100.8	4	0	0.0%	114.25	56.7
Turbidity	NTU	0.2	1.71	1.51	4	0	0.0%	0.64	0.7
Nitrate as N	mg/L	0.06	0.37	0.31	4	0	0.0%	0.24	0.1
Ammonia as N	mg/L	<0.1	<0.1	0	4	4	100.0%	0.00	0.0
Sulfate	mg/L	6.4	40.7	34.3	4	0	0.0%	22.28	17.9
Chloride	mg/L	<1	<1	0	4	4	100.0%	0.00	0.0
Total Dissolved Solids	mg/L	34	111	77	4	0	0.0%	69.25	31.8
Total Suspended Solids	mg/L	<4	4.8	4.8	4	3	75.0%	1.20	0.4
Hardness, Total	mg/L	23.4	66.7	43.3	4	0	0.0%	43.25	22.9
Dissolved Aluminum	ug/L	2.4	10.2	7.8	4	0	0.0%	5.00	3.5
Dissolved Arsenic	ug/L	<2.5	<2.5	0	4	4	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	4	4	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	4	4	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.6	1.6	4	3	75.0%	0.40	0.3
Dissolved Iron	mg/L	<0.05	<0.05	0	4	4	100.0%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	4	4	100.0%	0.00	0.0
Dissolved Manganese	ug/L	<1	3.2	3.2	4	2	50.0%	1.33	1.1
Mercury Dissolved	ug/L	<0.001	<0.001	0	4	4	100.0%	0.00	0.0
Dissolved Nickel	ug/L	<1	<1	0	4	4	100.0%	0.00	0.0
Dissolved Selenium	ug/L	<1	<1	0	4	4	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	4	4	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	<2.5	0	4	4	100.0%	0.00	0.0
Color	color unit	<5	5	5	4	3	75.0%	1.25	0.0

*Non-detects are assigned a value of zero in the arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 15: Station CAK-001EFF (Outfall 001 Effluent) 2010 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean	Standard Deviation
Temp	oC	0.1	10.6	10.5	61	0	0.00%	5.39	2.7
Dissolved oxygen	mg/L	7.08	14.57	7.49	61	0	0.00%	12.11	1.3
Lab Turbidity	NTU	0.1	2.45	2.35	61	0	0.00%	0.56	0.5
Ammonia as N	mg/L	0	4.5	4.5	62	11	17.74%	0.63	0.8
Nitrate as N	mg/L	0.08	7.26	7.18	62	0	0.00%	1.21	1.2
Sulfate (as S)	mg/L	0	40.4	40.4	61	0	0.00%	16.56	11.4
Total Dissolved Solids	mg/L	132	375	243	61	0	0.00%	244.08	45.7
Total Suspended Solids	mg/L	<1.0	19.6	19.6	365	343	93.97%	0.44	1.4
Total Recoverable Aluminum	ug/L	<1	113	113	61	6	9.84%	7.81	18.0
Total Recoverable Arsenic	ug/L	<2.5	<2.5	0	61	61	100.00%	0.00	0.0
Total Recoverable Cadmium	ug/L	<0.1	0.1	0.1	61	59	96.72%	0.00	0.0
Total Chromium	ug/L	<2.5	<2.5	0	61	61	100.00%	0.00	0.0
Total Recoverable Copper	ug/L	0.6	6	5.4	61	57	93.44%	0.17	0.7
Total Recoverable Iron	mg/L	<0.05	1.97	1.97	61	45	73.77%	0.11	0.3
Total Recoverable Lead	ug/L	<0.16	0.5	0.5	61	58	95.08%	0.02	0.1
Total Recoverable Manganese	ug/L	41.5	538	496.5	61	0	0.00%	190.74	119.9
Total Recoverable Nickel	ug/L	<1	3.7	3.7	61	15	24.59%	1.58	0.7
Total Recoverable Selenium	ug/L	<1	2	2	61	2	3.28%	1.48	0.3
Total Recoverable Silver	ug/L	<0.1	<0.1	0	61	61	100.00%	0.00	0.0
Total Recoverable Zinc	ug/L	<2.5	8.7	8.7	61	19	31.15%	3.03	1.6
Total Mercury (1631)	ug/L	<0.001	0.0057	0.0057	62	56	90.32%	0.00	0.0
Hardness (Downstream of Outfall)	mg/L	22.8	123	100.2	61	0	0.00%	76.99	23.3

* Non-detects are treated as 0.0 in range and arithmetic mean calculation

**Non-detects are assigned a value equal to the detection limit in standard deviation calculation

Table 16: Applicable Alaska Water Quality Standards

Parameter	Water Quality Standard Used	Hardness Based Y/N	Value or Formula if hardness based	Units
aluminum	Chronic Toxicity	N	87	ug/l
arsenic	Drinking Water	N	10	ug/l
cadmium	Chronic Toxicity	Y	$EXP(0.7409*(LN\ Hardness))-4.719$	ug/l
chloride	Chronic Toxicity	N	230	mg/l
chromium	Drinking Water	N	100	ug/l
copper	Chronic Toxicity	Y	$EXP(0.8545*(LN\ Hardness))-1.702$	ug/l
iron	Chronic Toxicity	N	1	mg/l
lead	Chronic Toxicity	Y	$EXP(1.273*(LN\ Hardness))-4.705$	ug/l
manganese	Human Health*	N	50	ug/l
mercury	Human Health*	N	0.05	ug/l
nickel	Chronic Toxicity	Y	$EXP(0.846*(LN\ Hardness))+0.0584$	ug/l
nitrate (as N)	Drinking Water	N	10	mg/l
selenium***	Chronic Toxicity	N	5	ug/l
silver	Acute Toxicity	Y	$EXP(1.72*(LN\ Hardness))-6.52$	ug/l
zinc	Acute Toxicity	Y	$EXP(0.8473*(LN\ Hardness))+0.884$	ug/l

Chronic and Acute Toxicity refer to aquatic life in freshwater

*Human Health Criteria for NonCarcinogens

Figures 1-11

Figure 1: Project Area Map

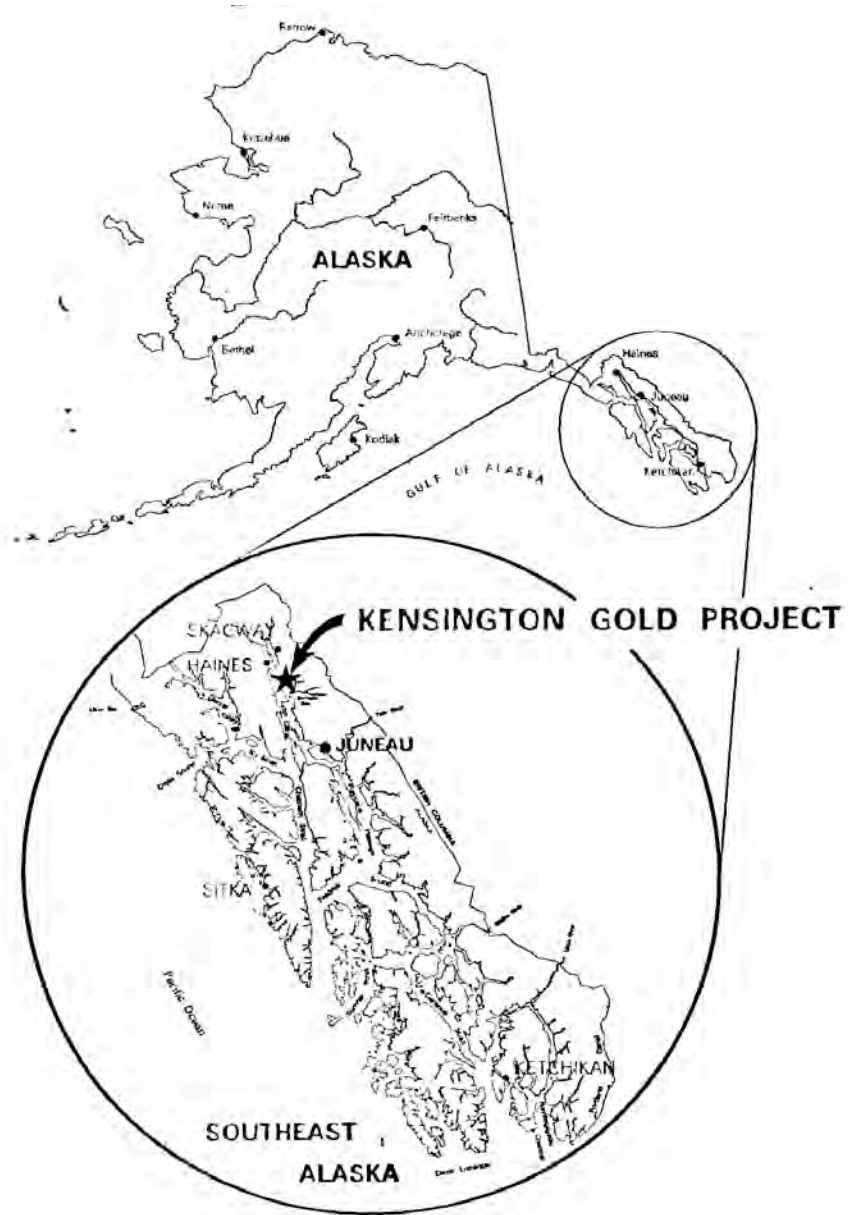


Figure 2: Location of streams and permitted outfalls near Kensington and Jualin Mines, Lynn Canal, southeast Alaska. Water quality monitoring is conducted on Sherman, Ophir, Slate and Johnson Creeks.

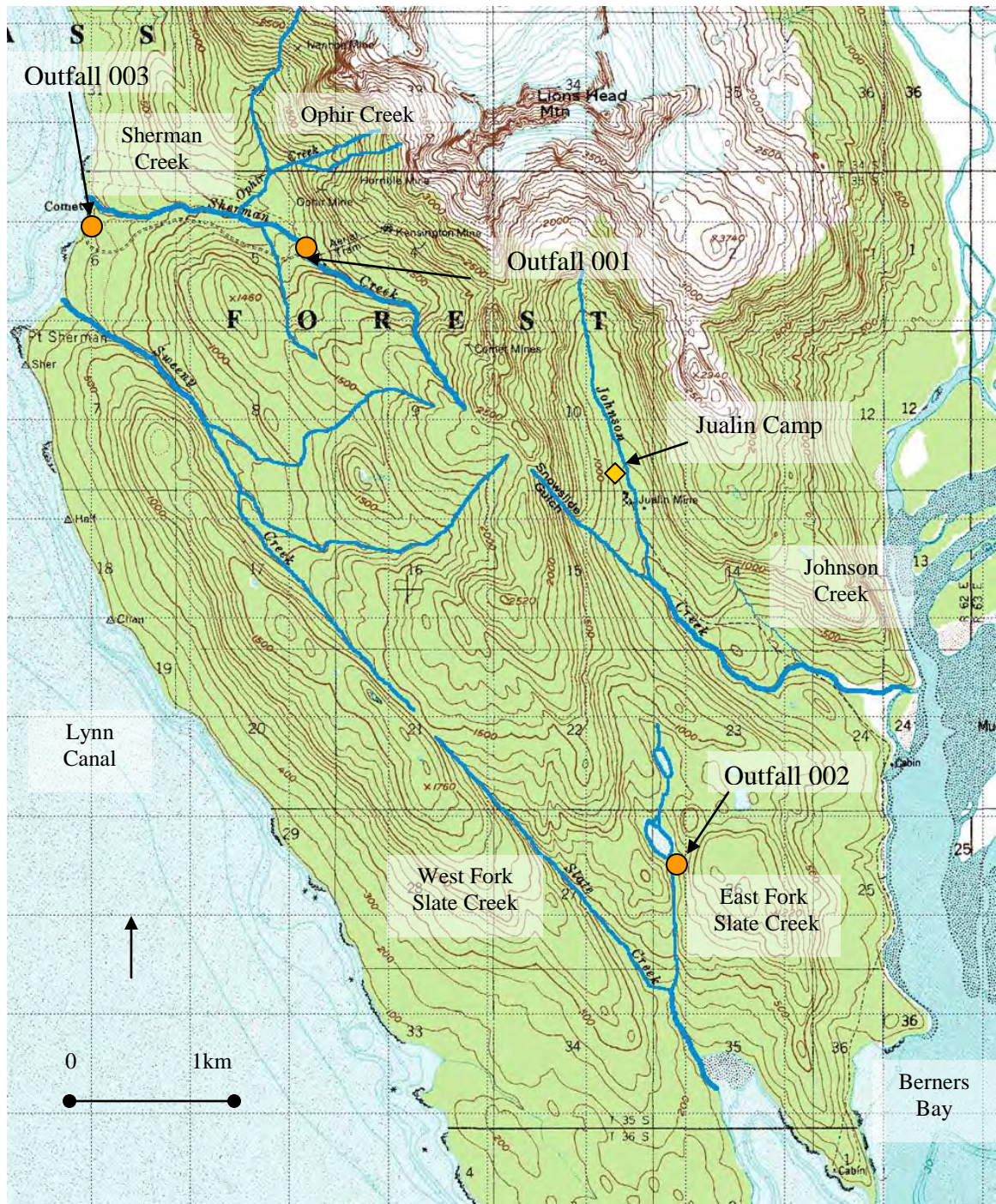


Figure 3: Water Treatment Facility Monitoring Sites.

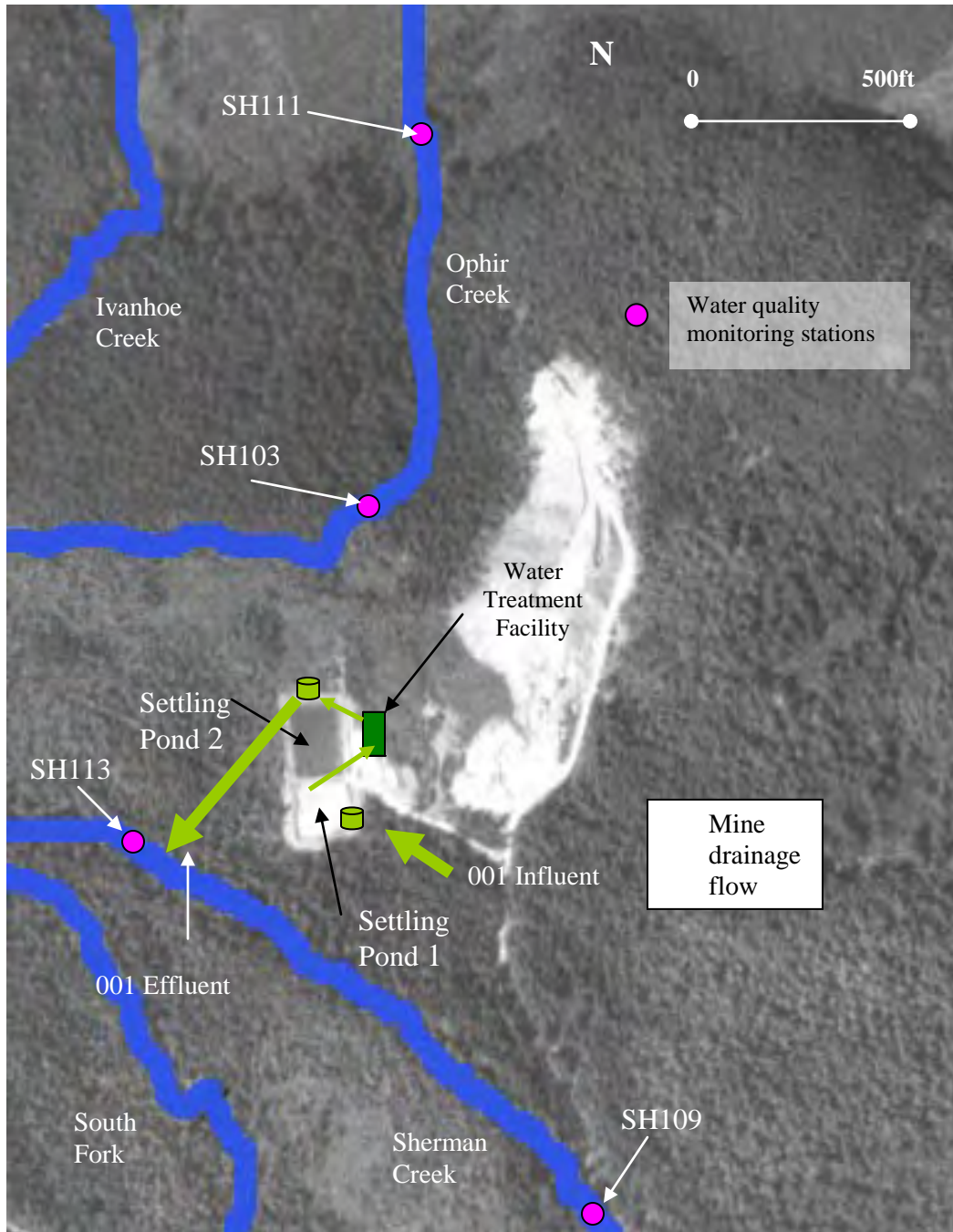


Figure 4: Location of receiving water quality monitoring stations on Sherman and Ophir Creeks.

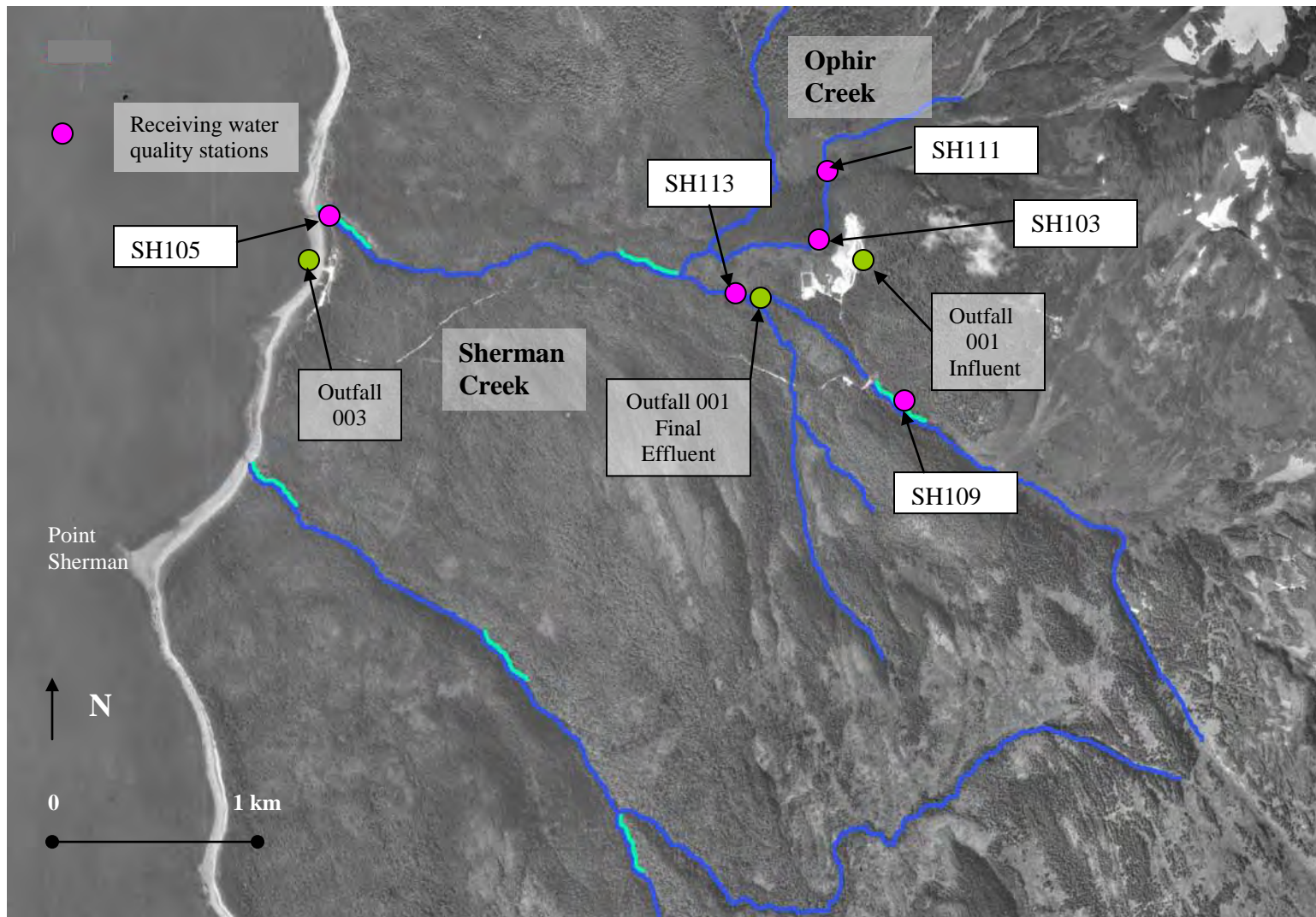


Figure 5: Locations of receiving water quality monitoring stations on Slate and Johnson Creeks.

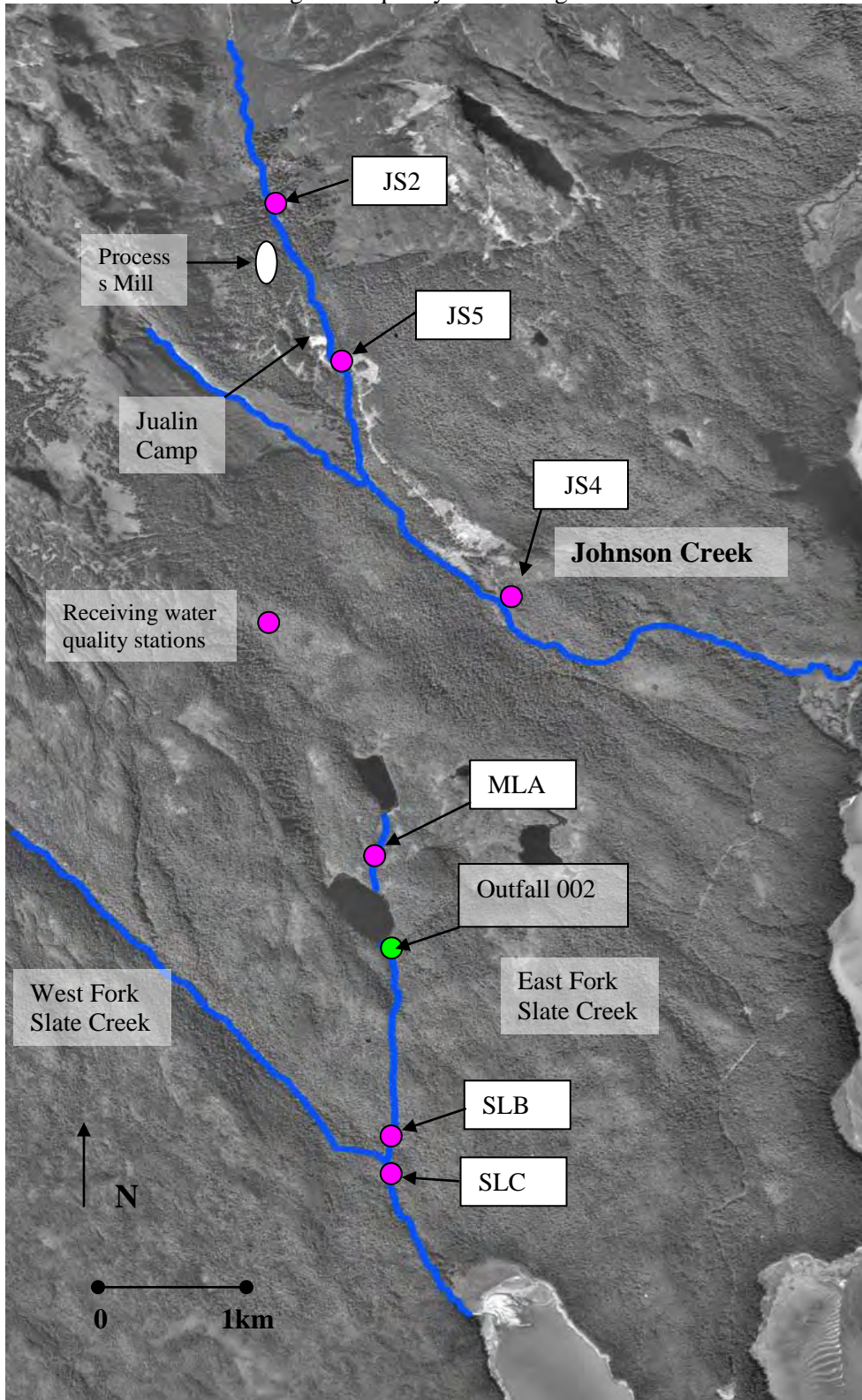


Figure 6a: Johnson Creek Monitoring Results 2010, Field Parameters

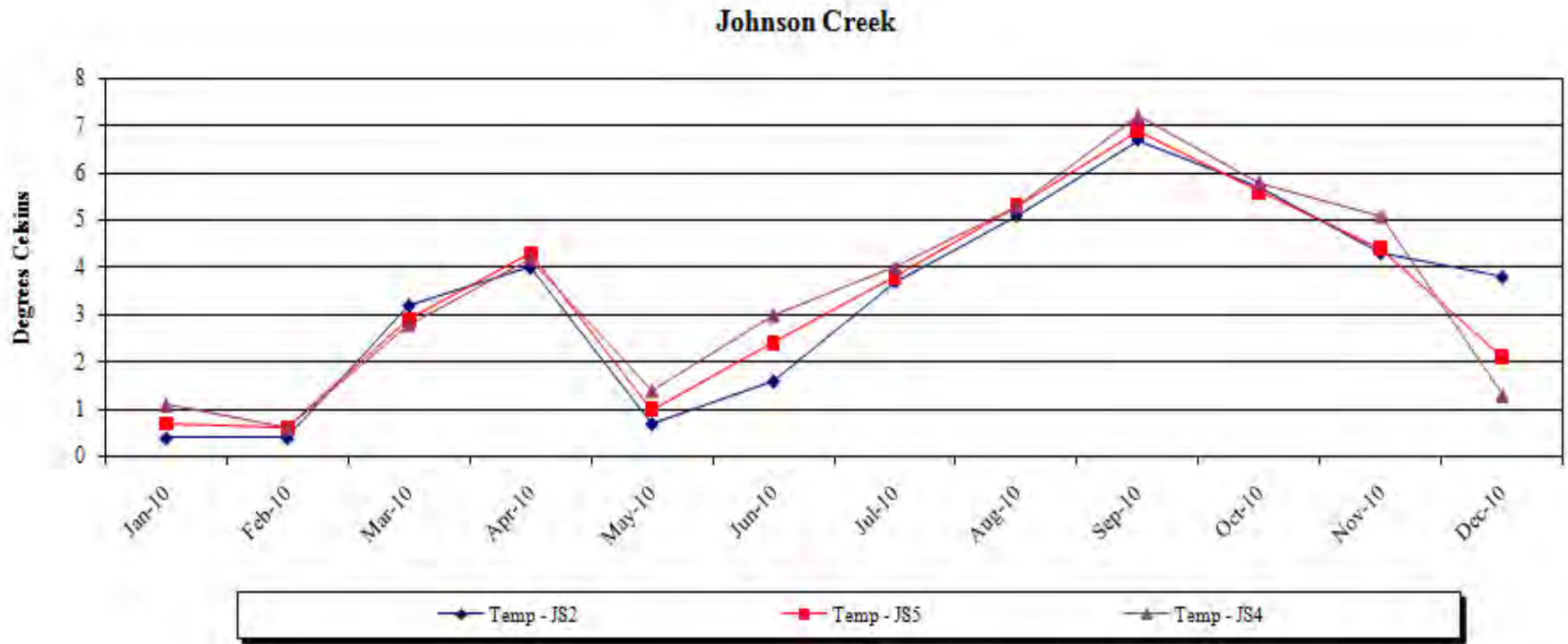


Figure 6a: Johnson Creek Monitoring Results 2010, Field Parameters

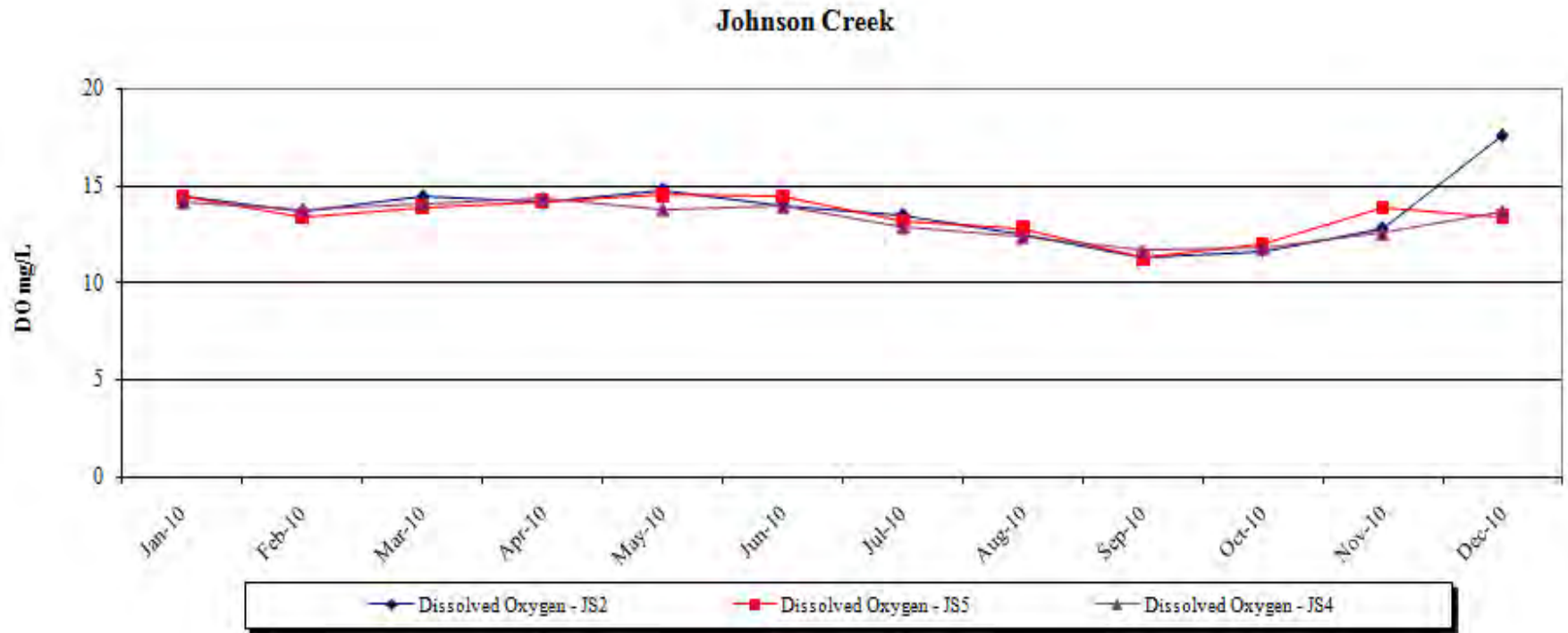


Figure 6a: Johnson Creek Monitoring Results 2010, Field Parameters

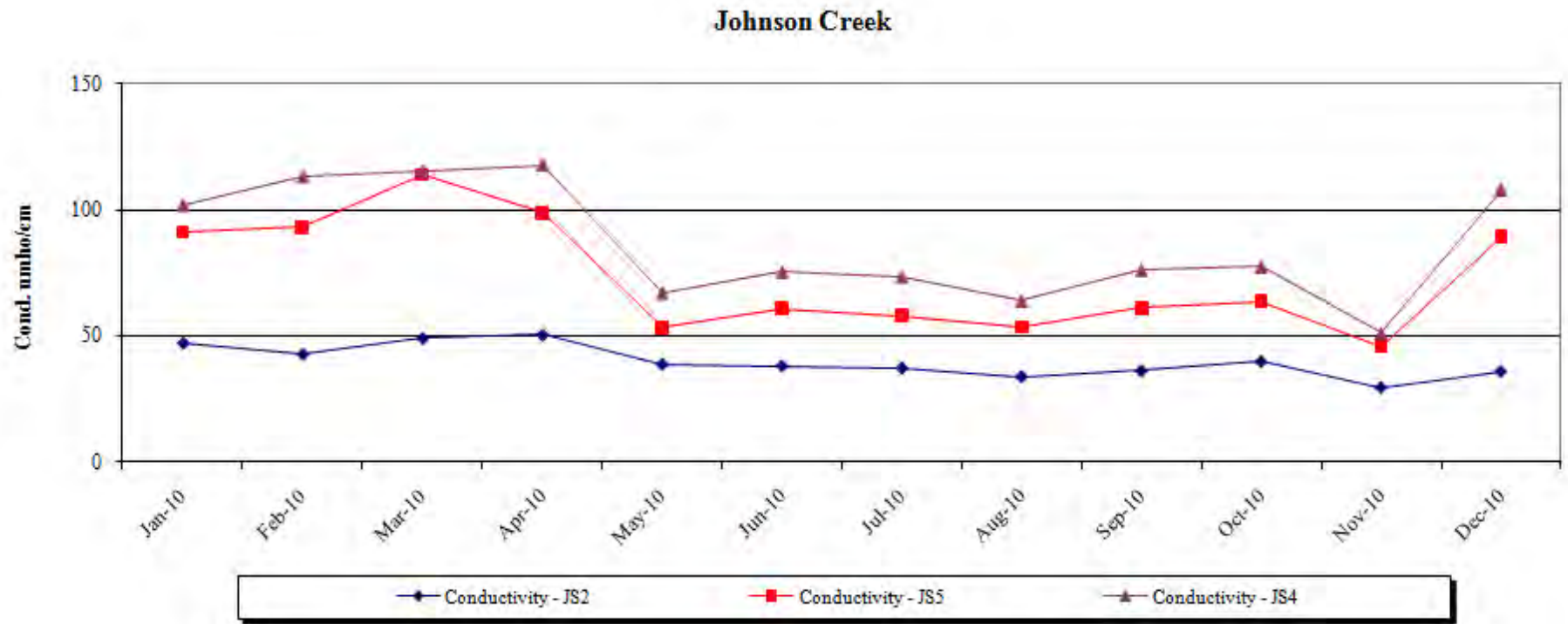


Figure 6a: Johnson Creek Monitoring Results 2010, Field Parameters

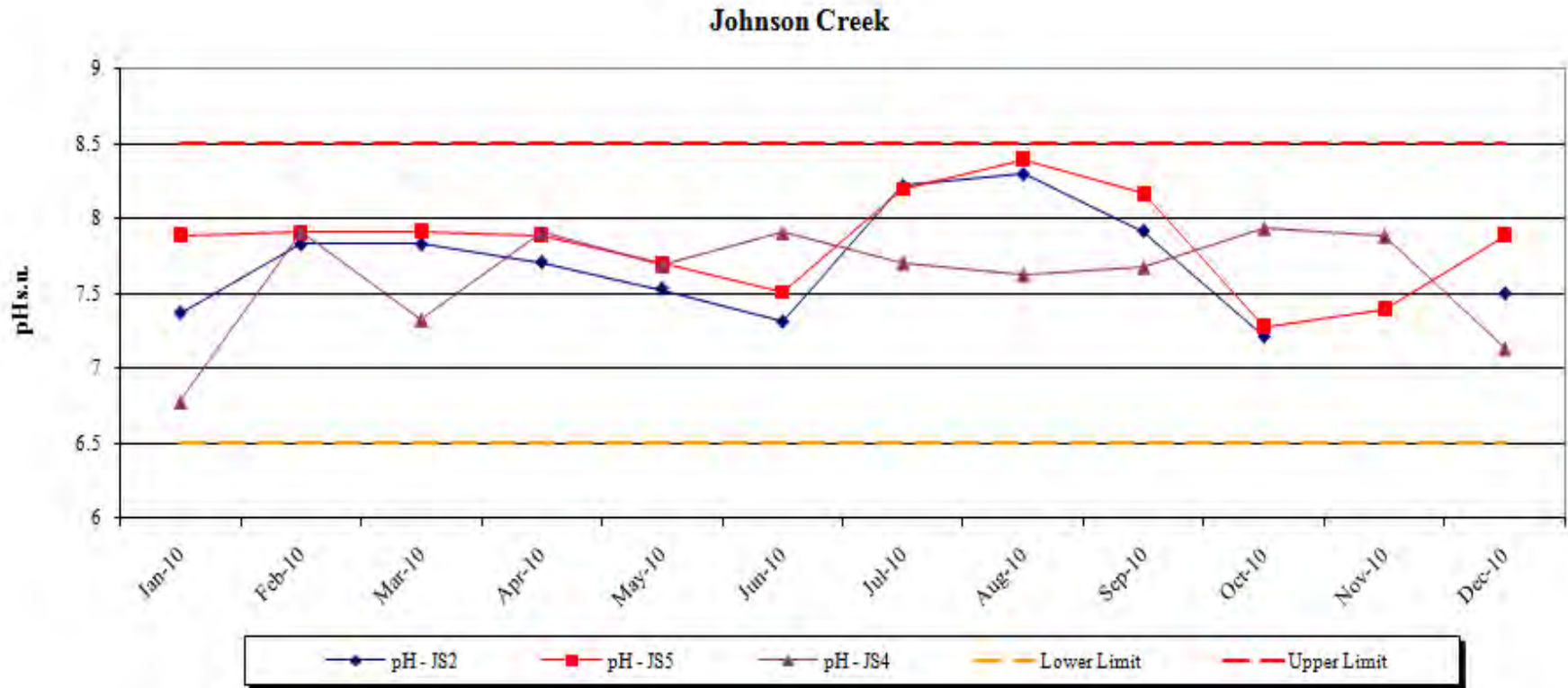


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

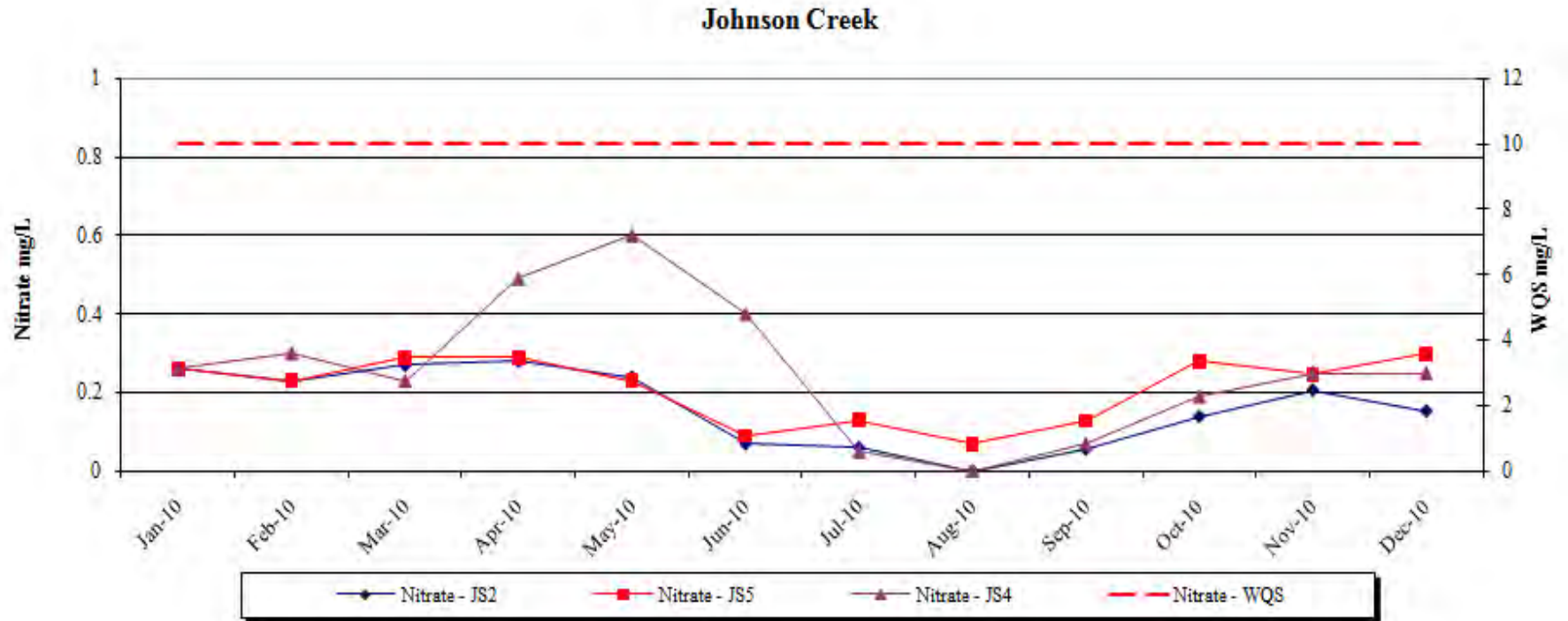


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

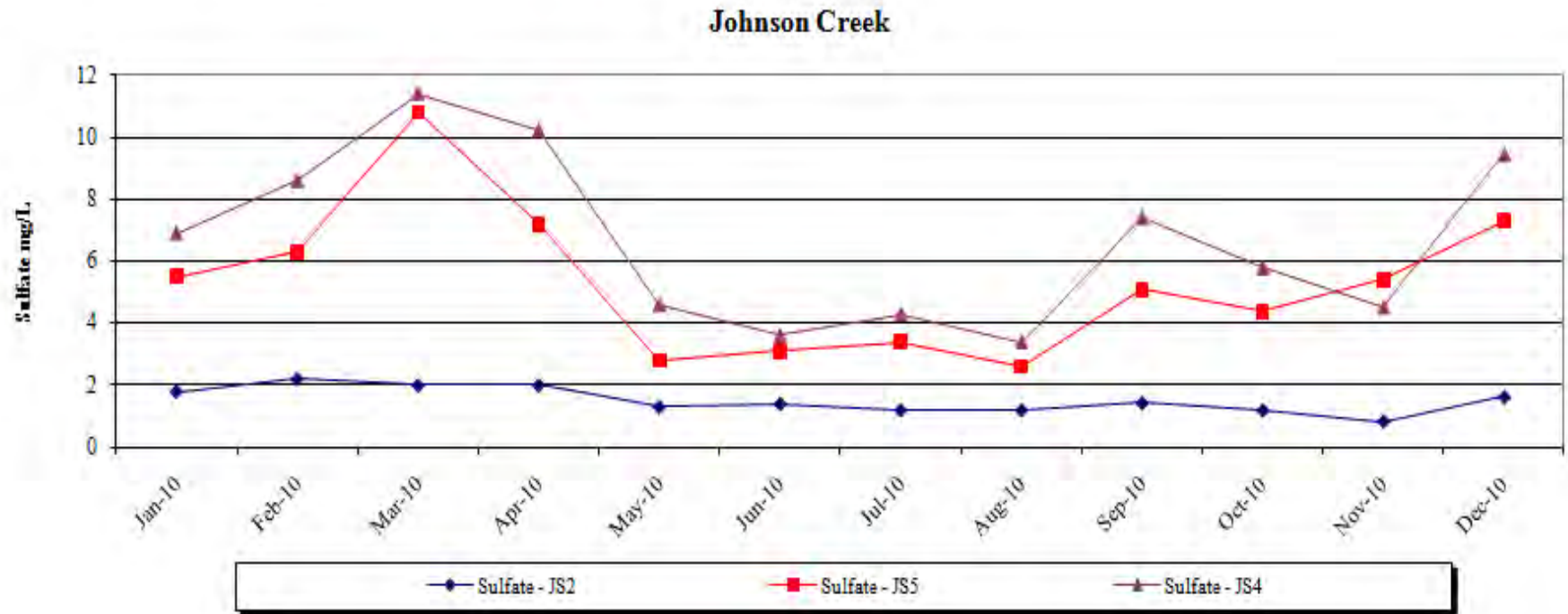


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

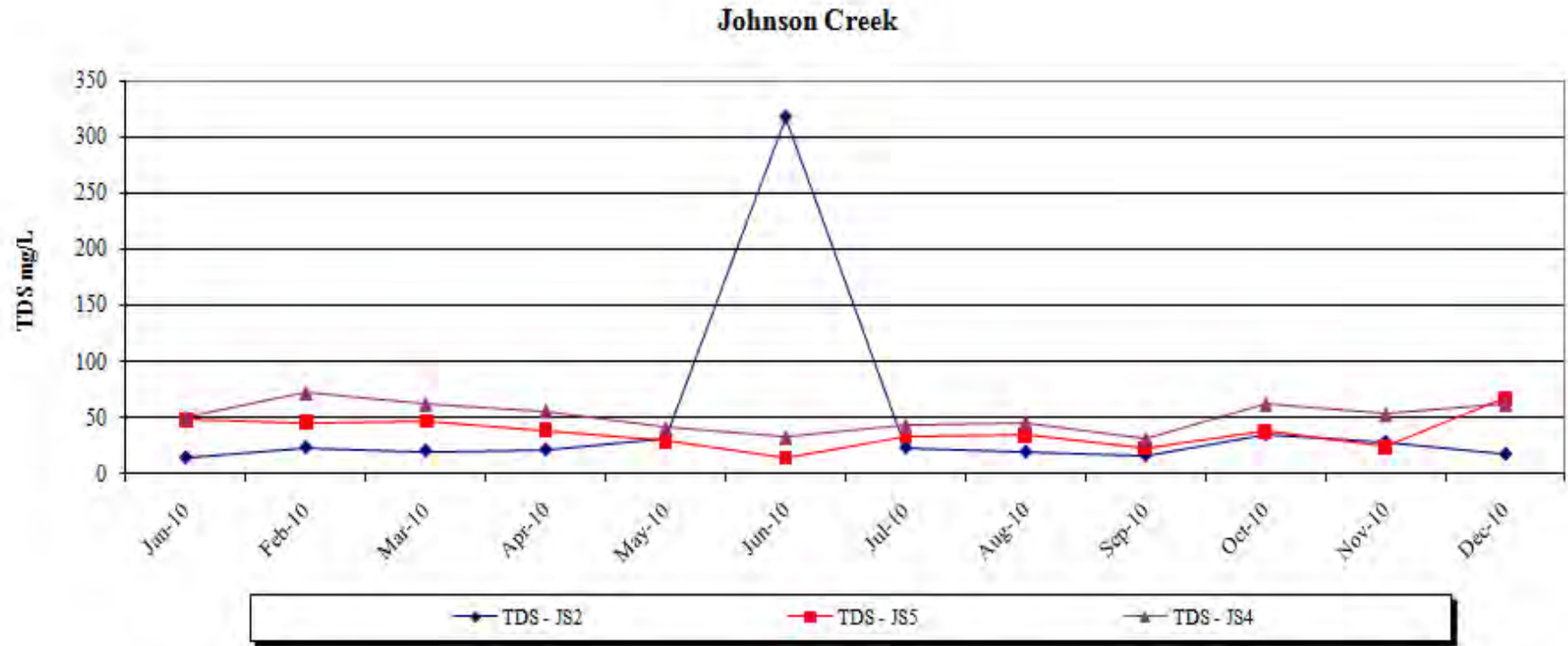


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

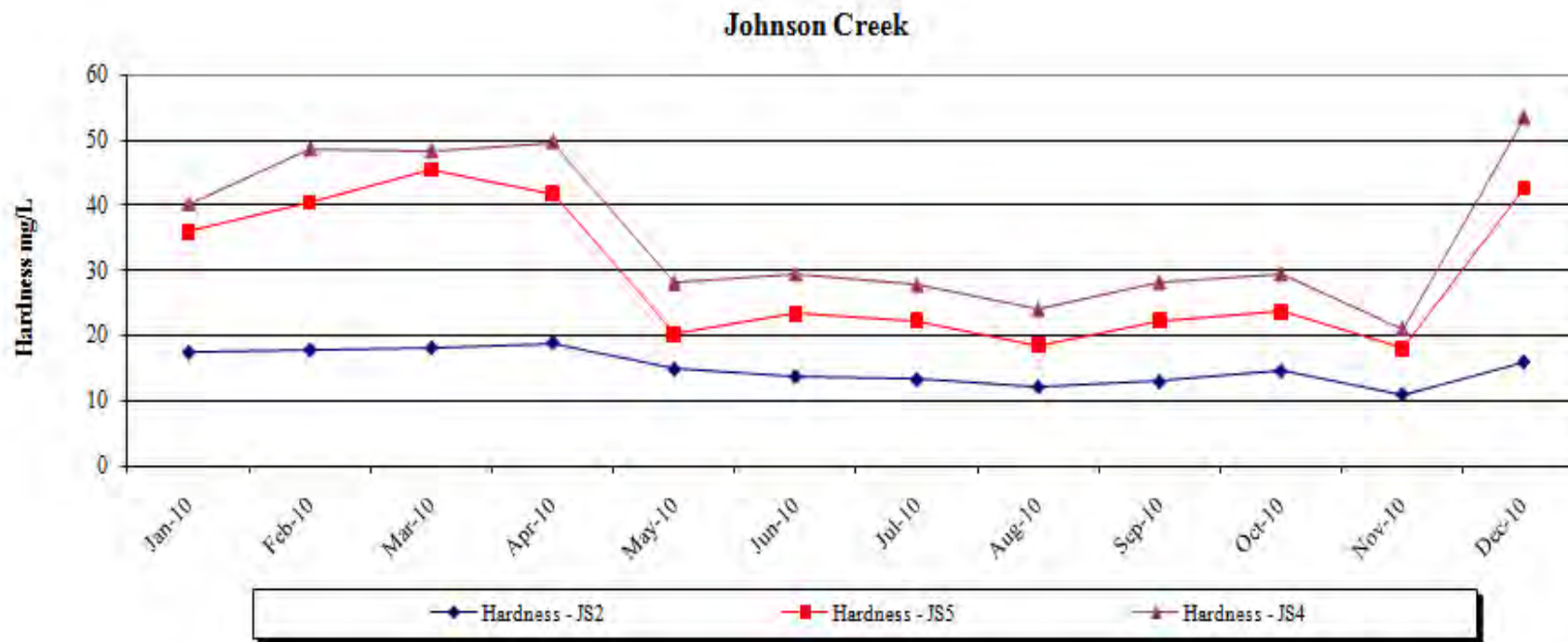


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

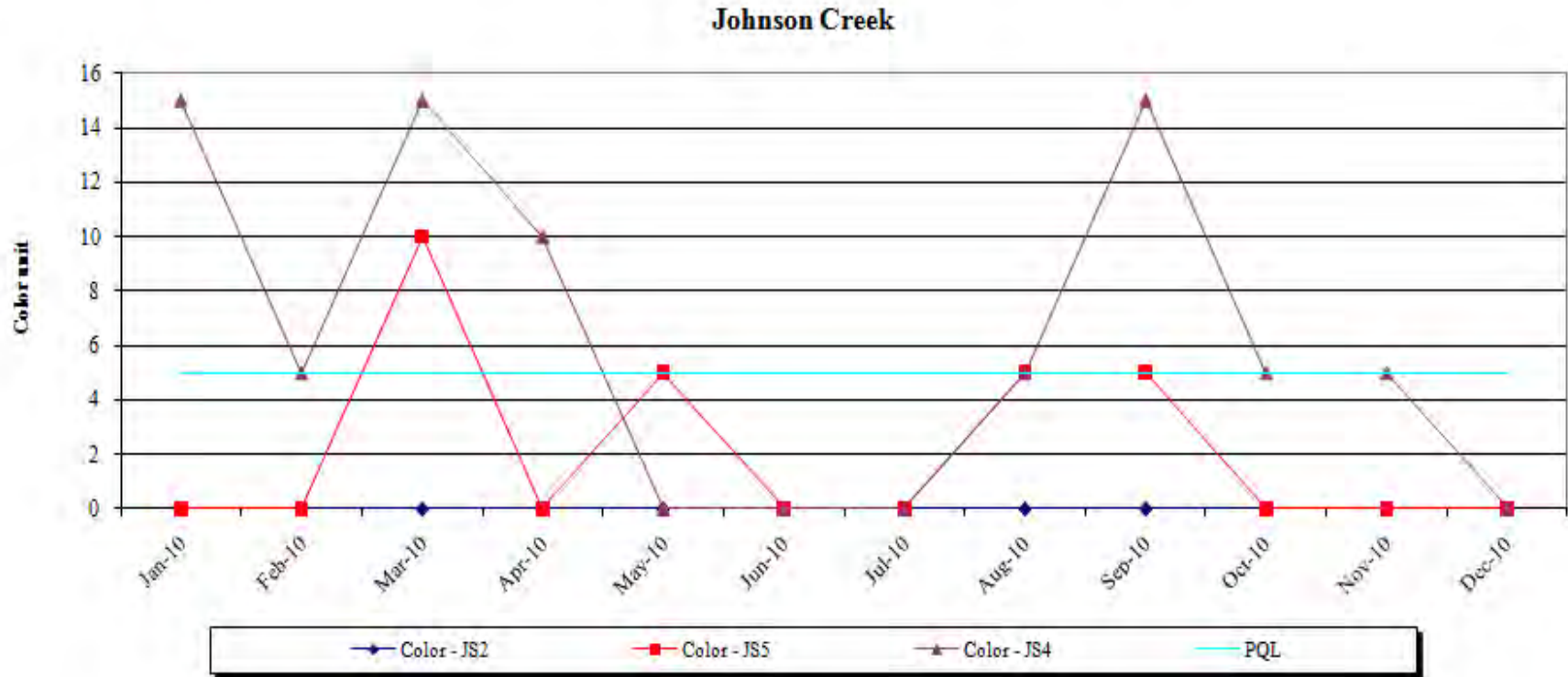


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

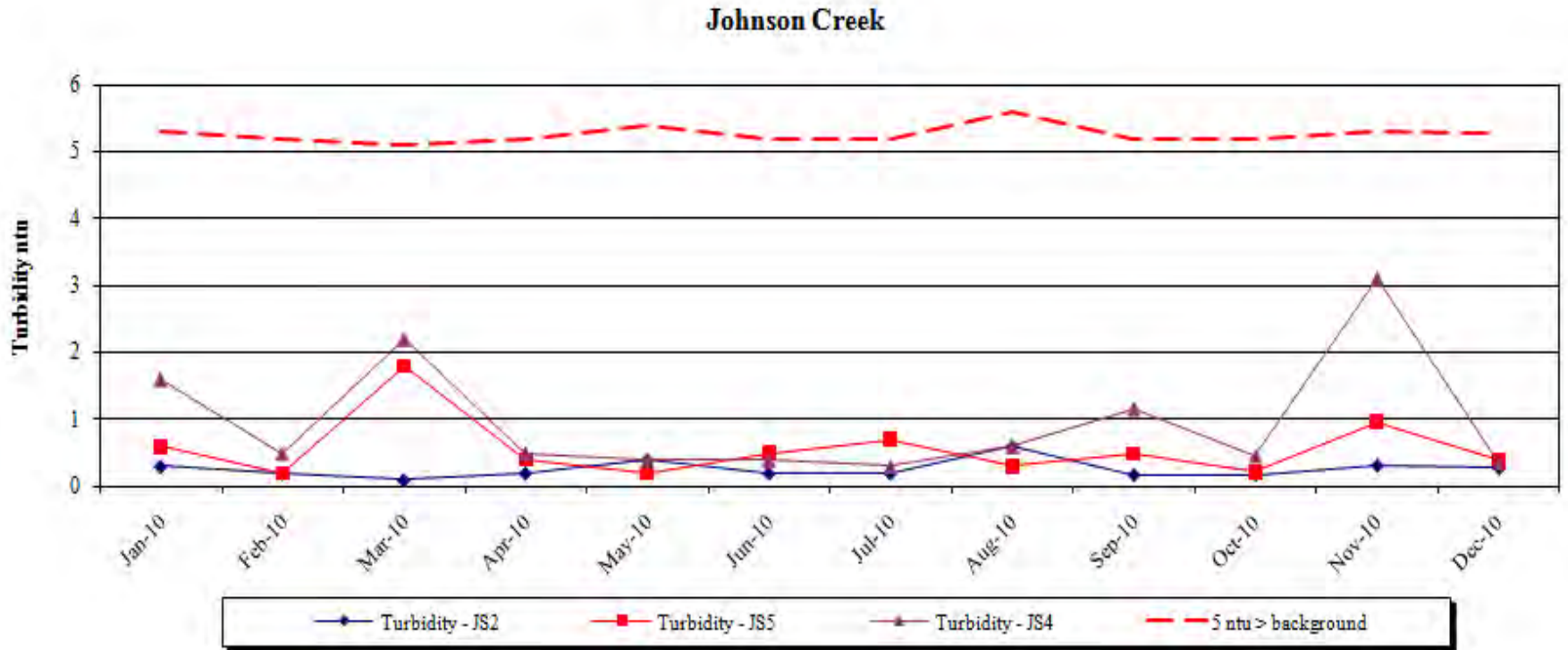


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

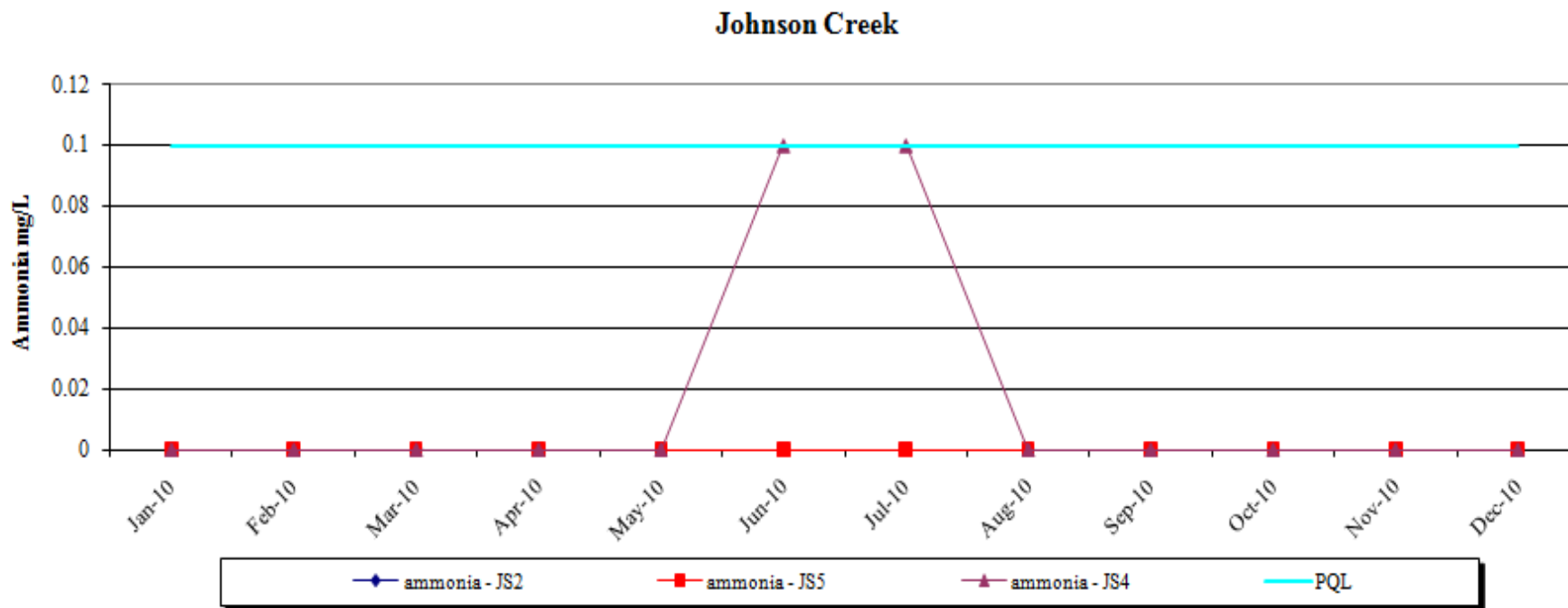


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

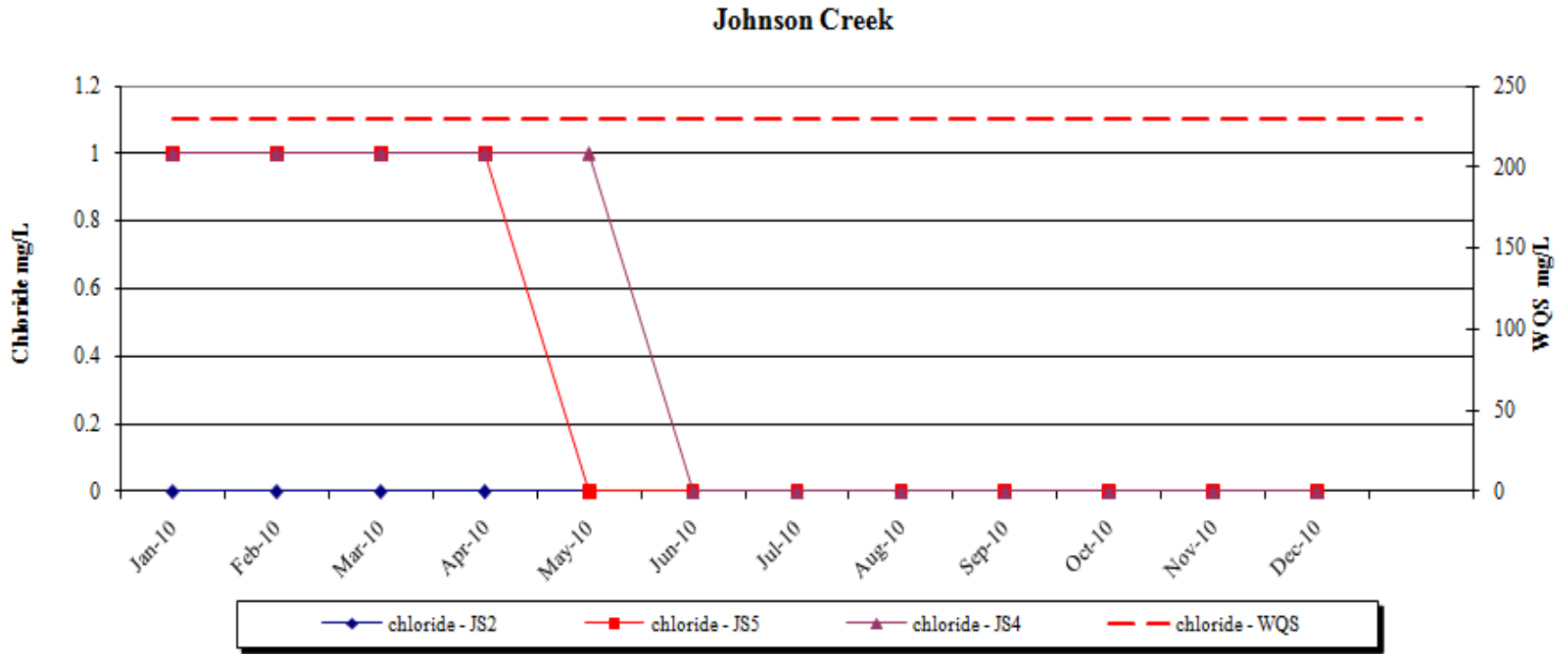


Figure 6b: Johnson Creek Monitoring Results 2010, Major Chemistry

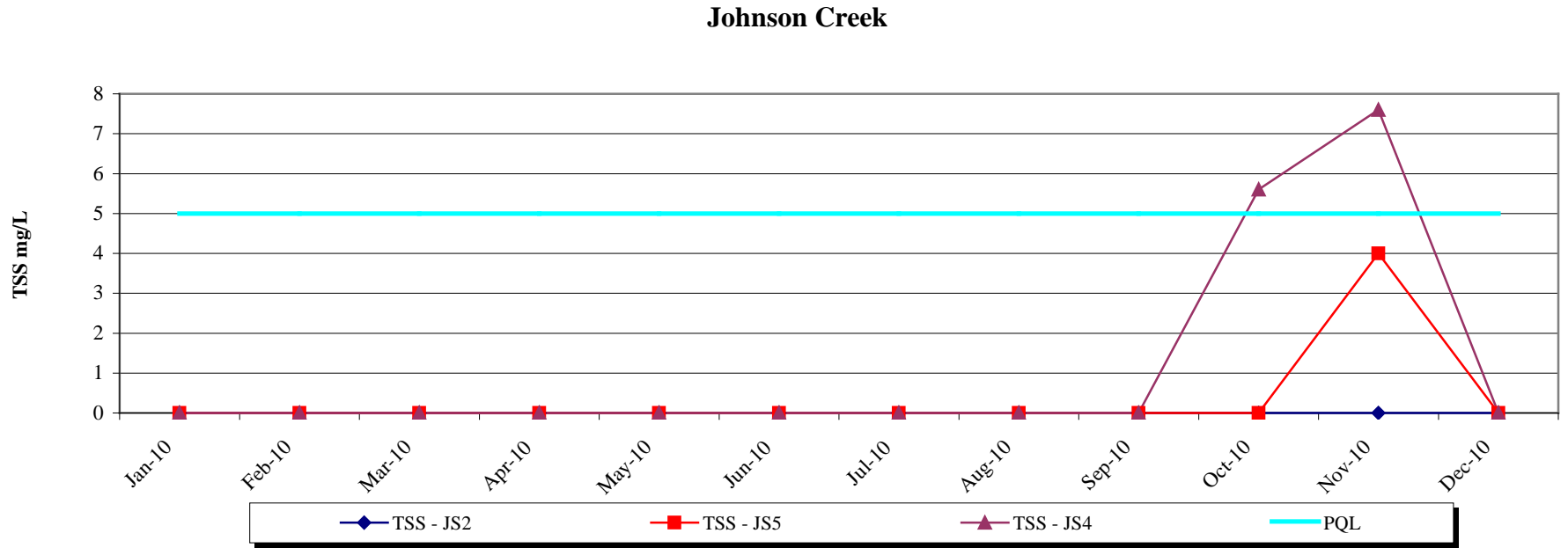


Figure 6c: Johnson Creek Monitoring Results 2010, Trace Chemistry

Johnson Creek

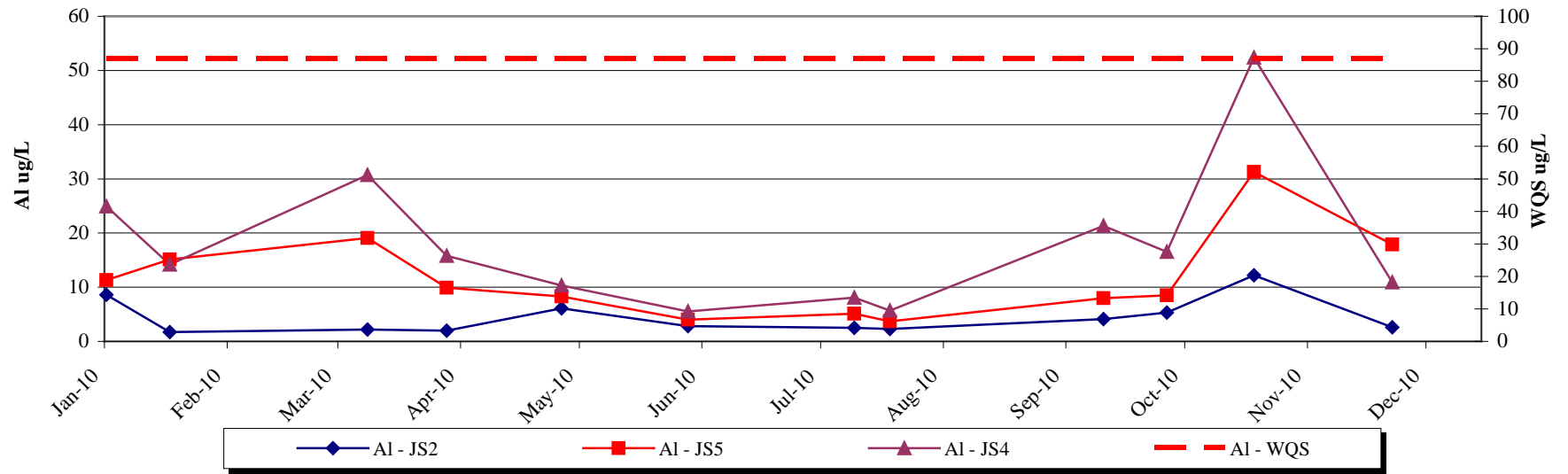


Figure 6c: Johnson Creek Monitoring Results 2010, Trace Chemistry

Johnson Creek

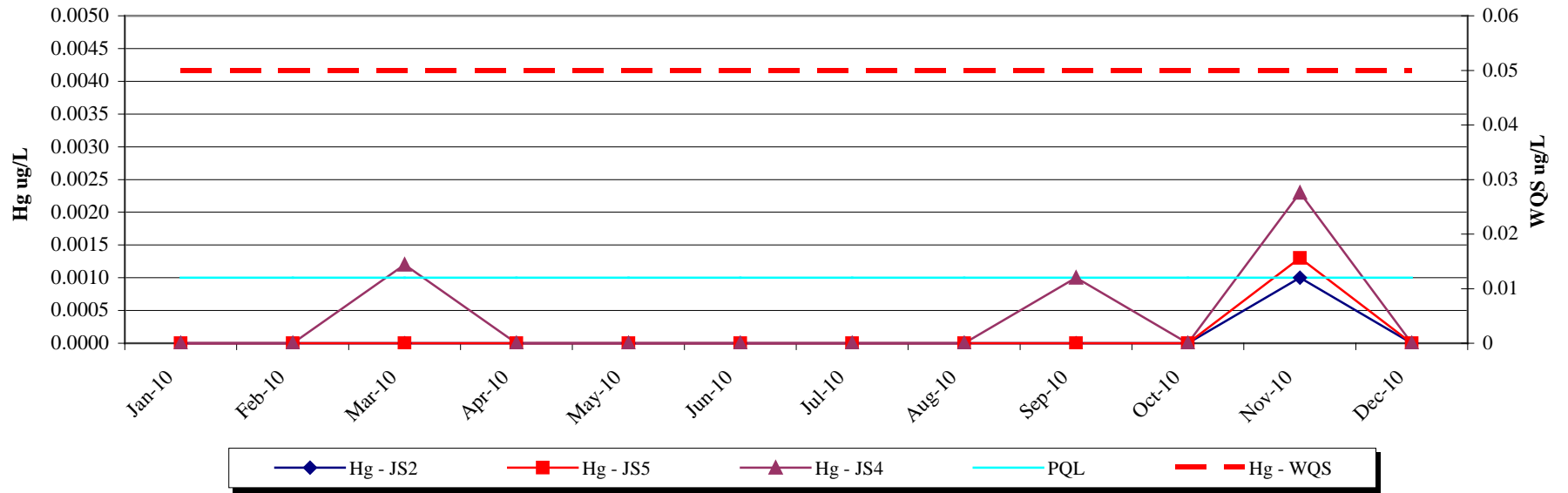


Figure 6c: Johnson Creek Monitoring Results 2010, Trace Chemistry

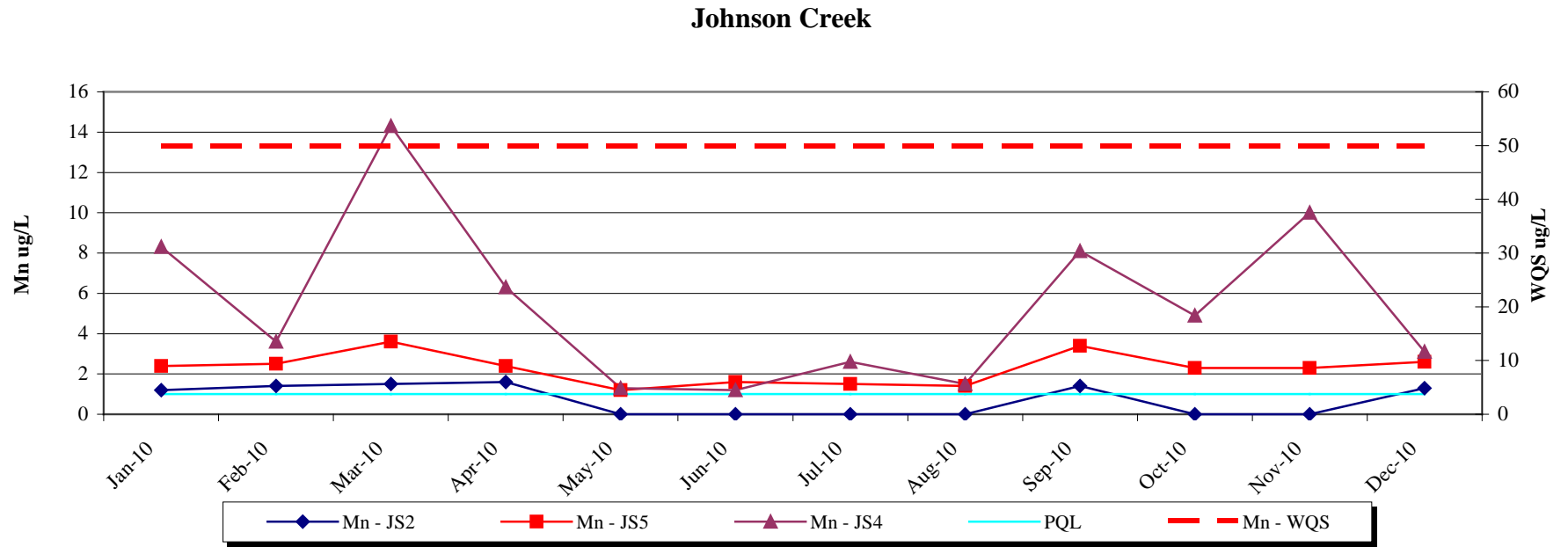


Figure 6c: Johnson Creek Monitoring Results 2010, Trace Chemistry

Johnson Creek - JS2

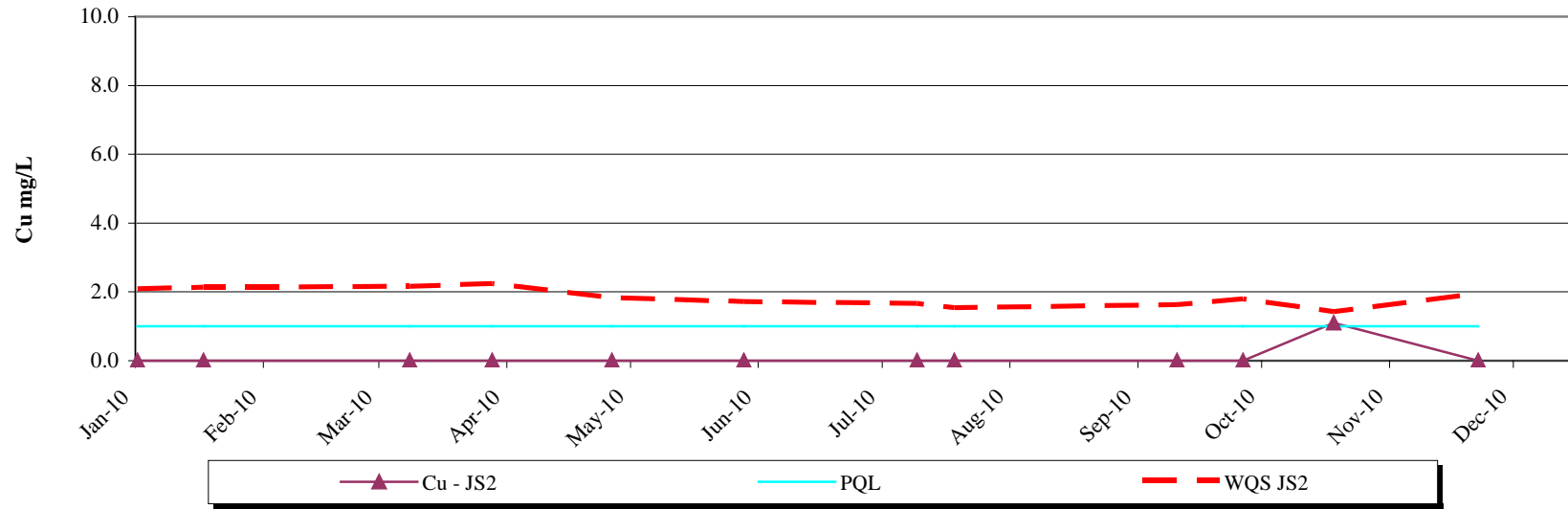


Figure 6c: Johnson Creek Monitoring Results 2010, Trace Chemistry

Johnson Creek - JS4

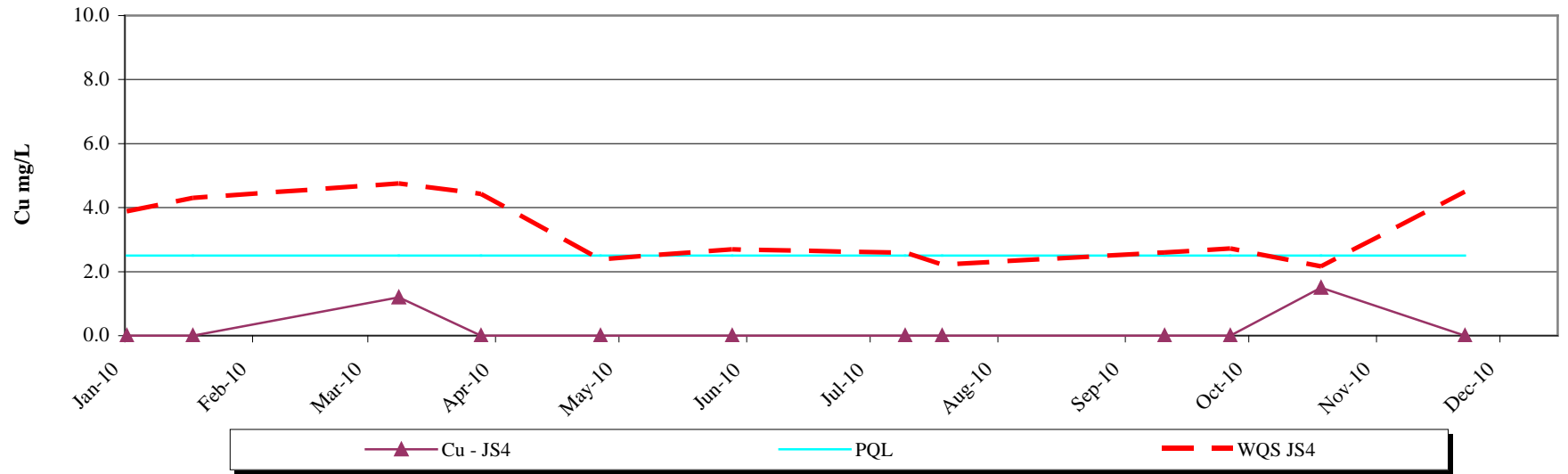


Figure 6c: Johnson Creek Monitoring Results 2010, Trace Chemistry

Johnson Creek - JS5

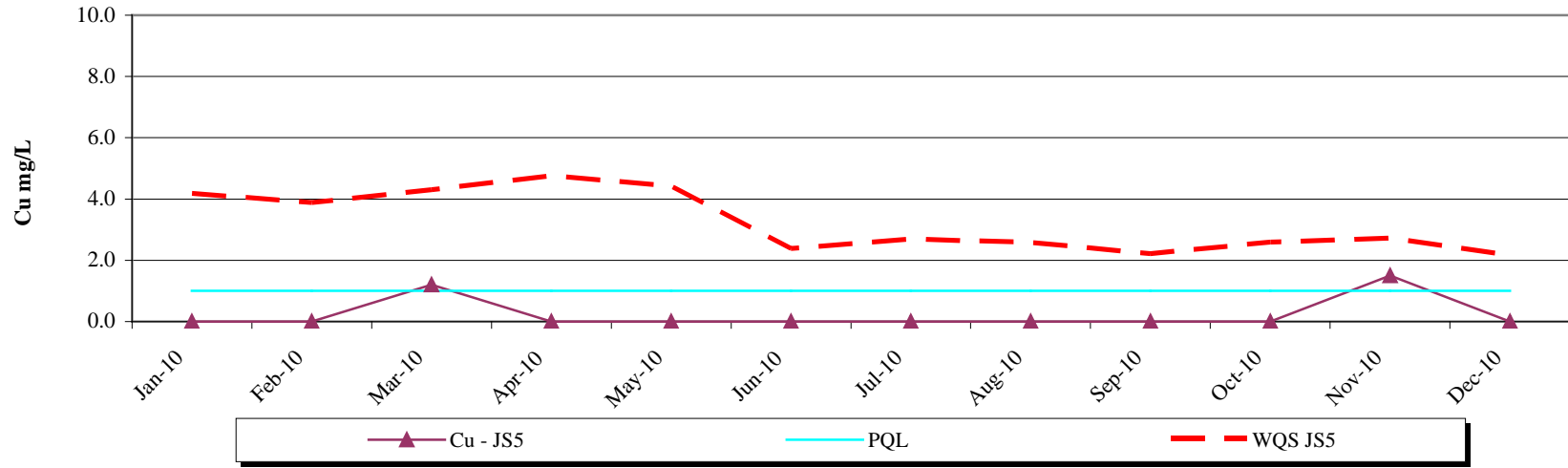


Figure 6c: Johnson Creek Monitoring Results 2010, Trace Chemistry

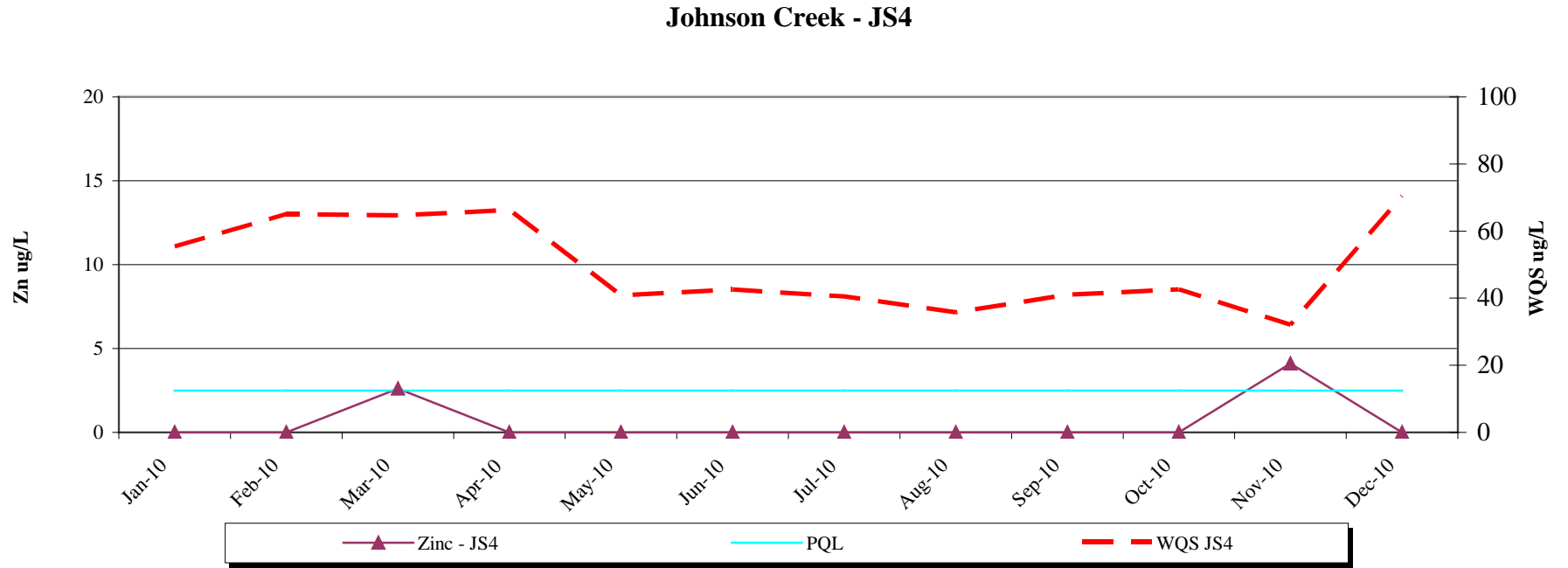


Figure 6c: Johnson Creek Monitoring Results 2010, Trace Chemistry

Johnson Creek - JS5

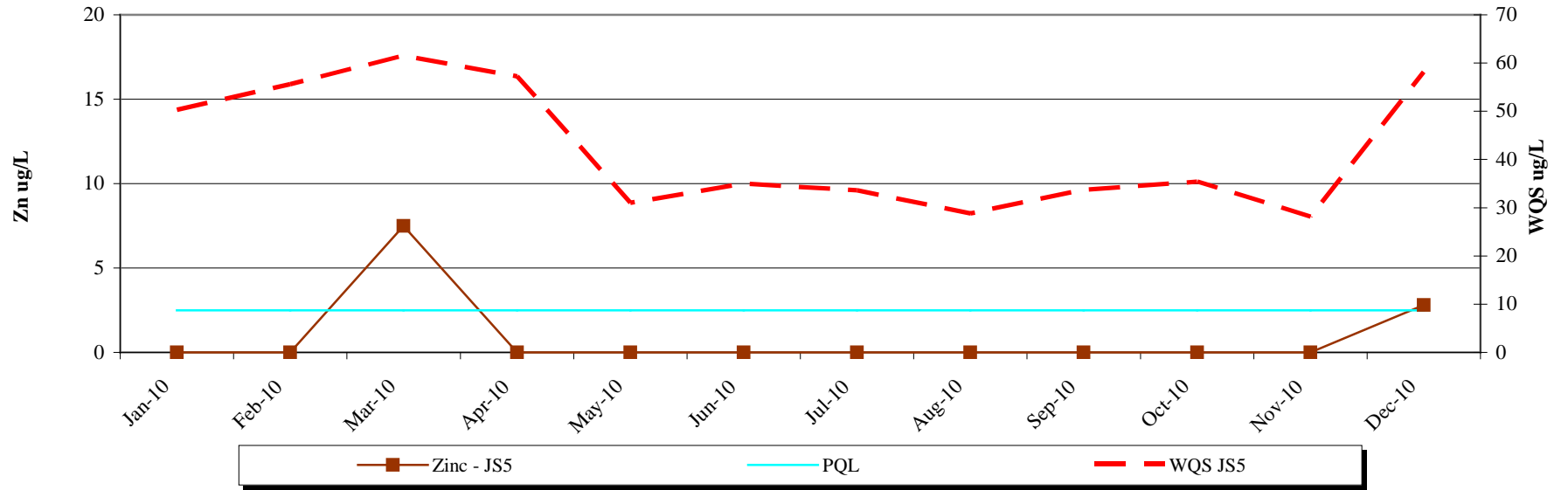


Figure 7a: Slate Creek Monitoring Results 2010, Field Parameters

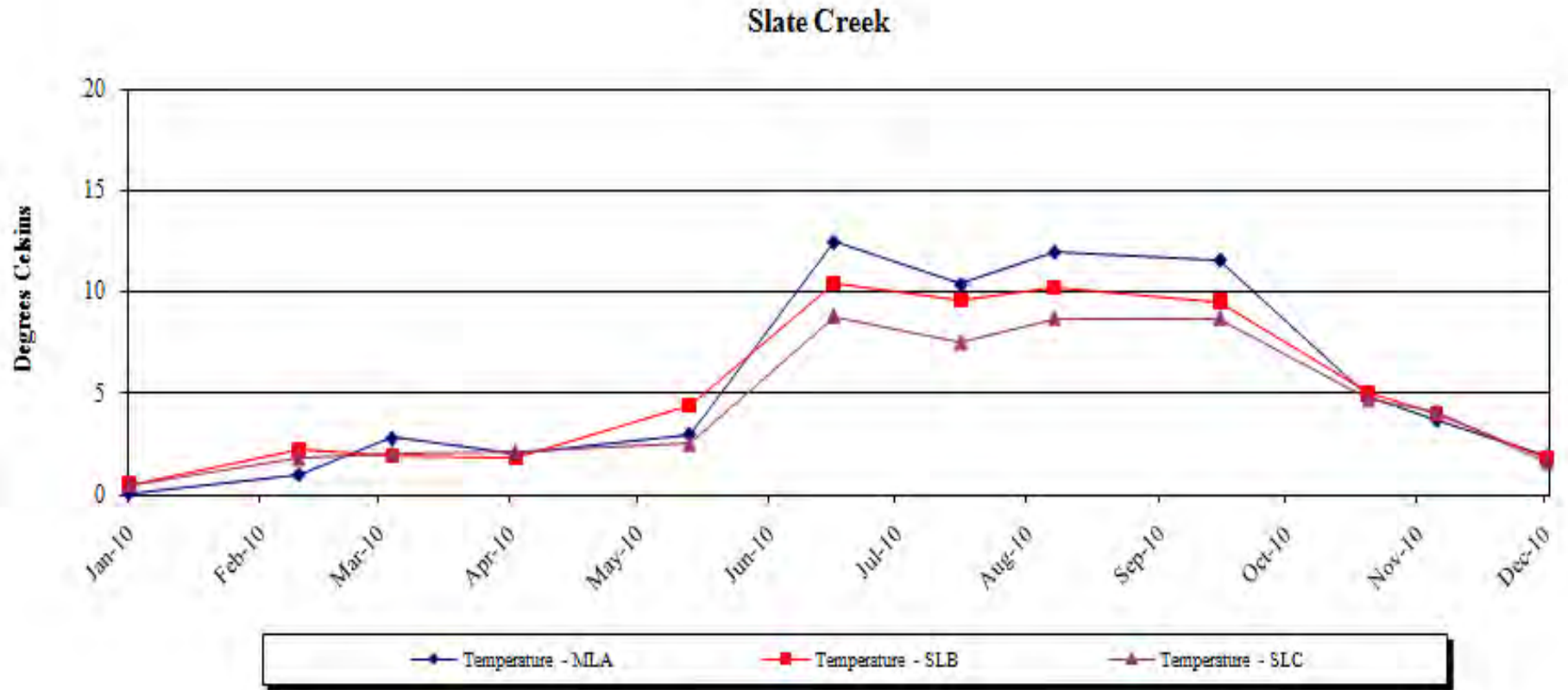


Figure 7a: Slate Creek Monitoring Results 2010, Field Parameters

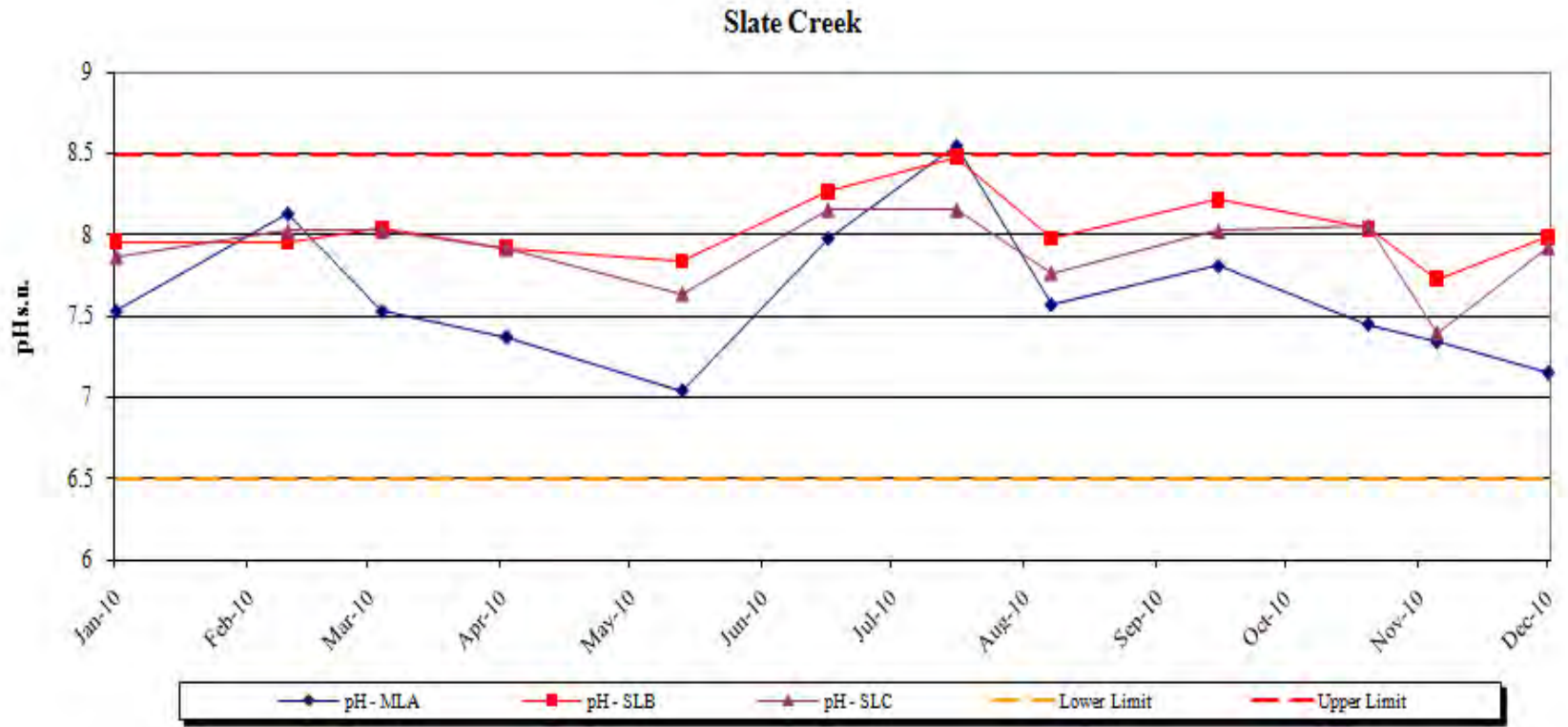


Figure 7a: Slate Creek Monitoring Results 2010, Field Parameters

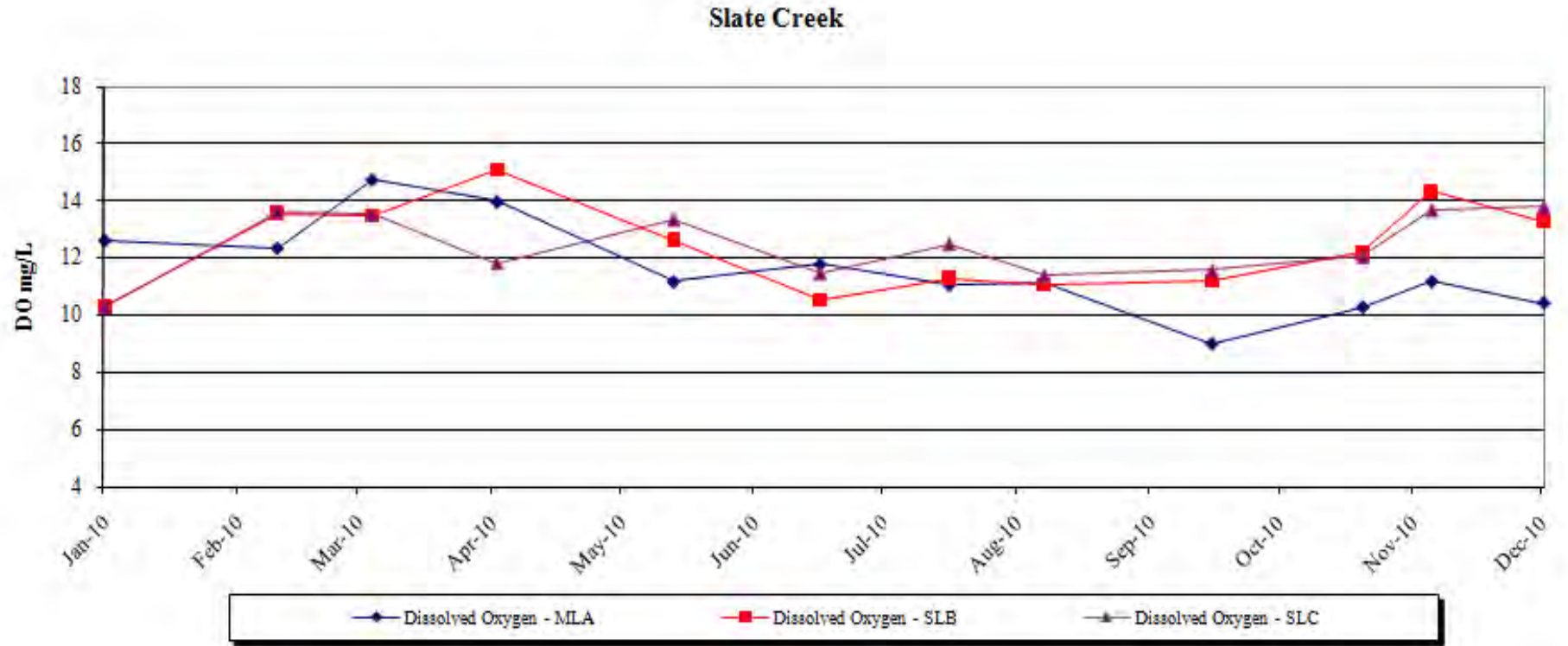


Figure 7a: Slate Creek Monitoring Results 2010, Field Parameters

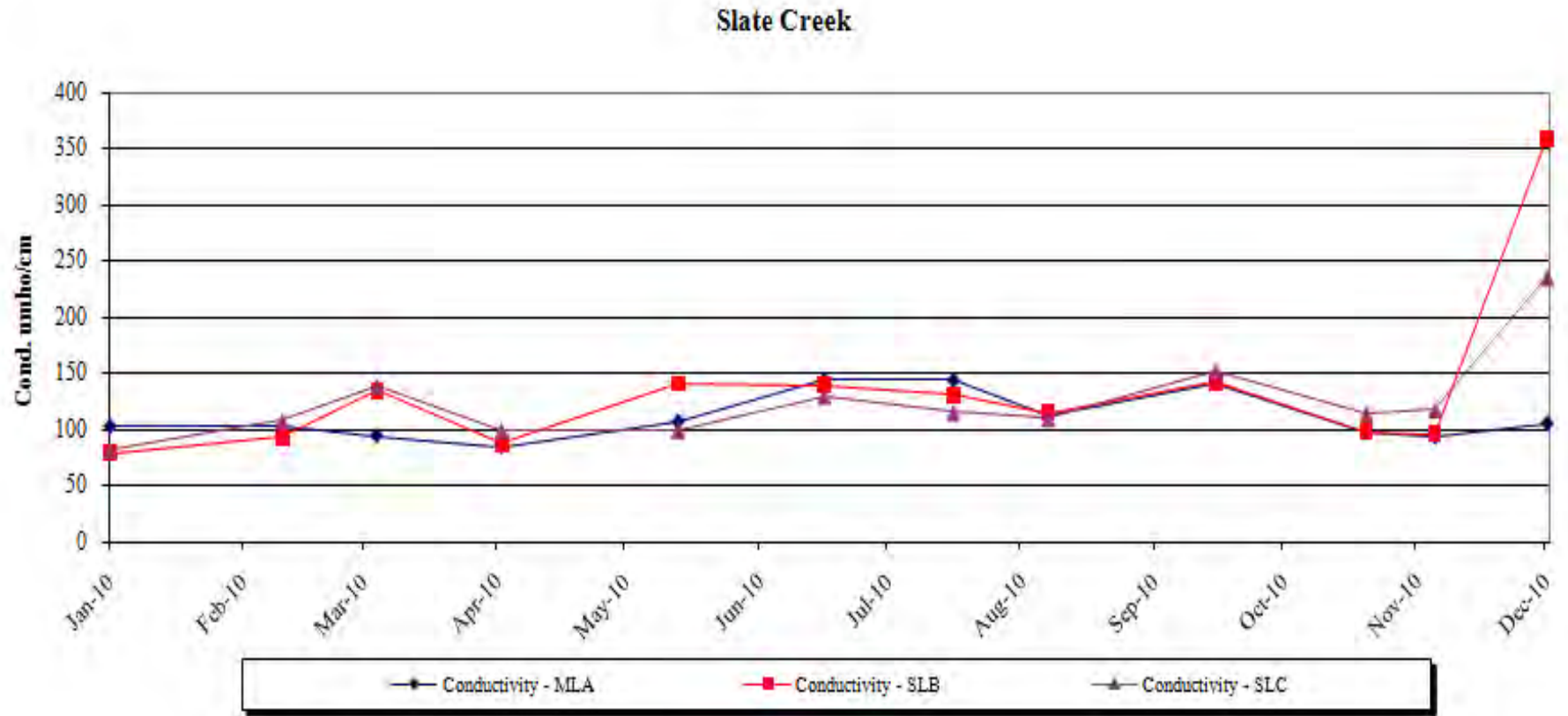


Figure 7b: Slate Creek Monitoring Results 2010, Major Chemistry

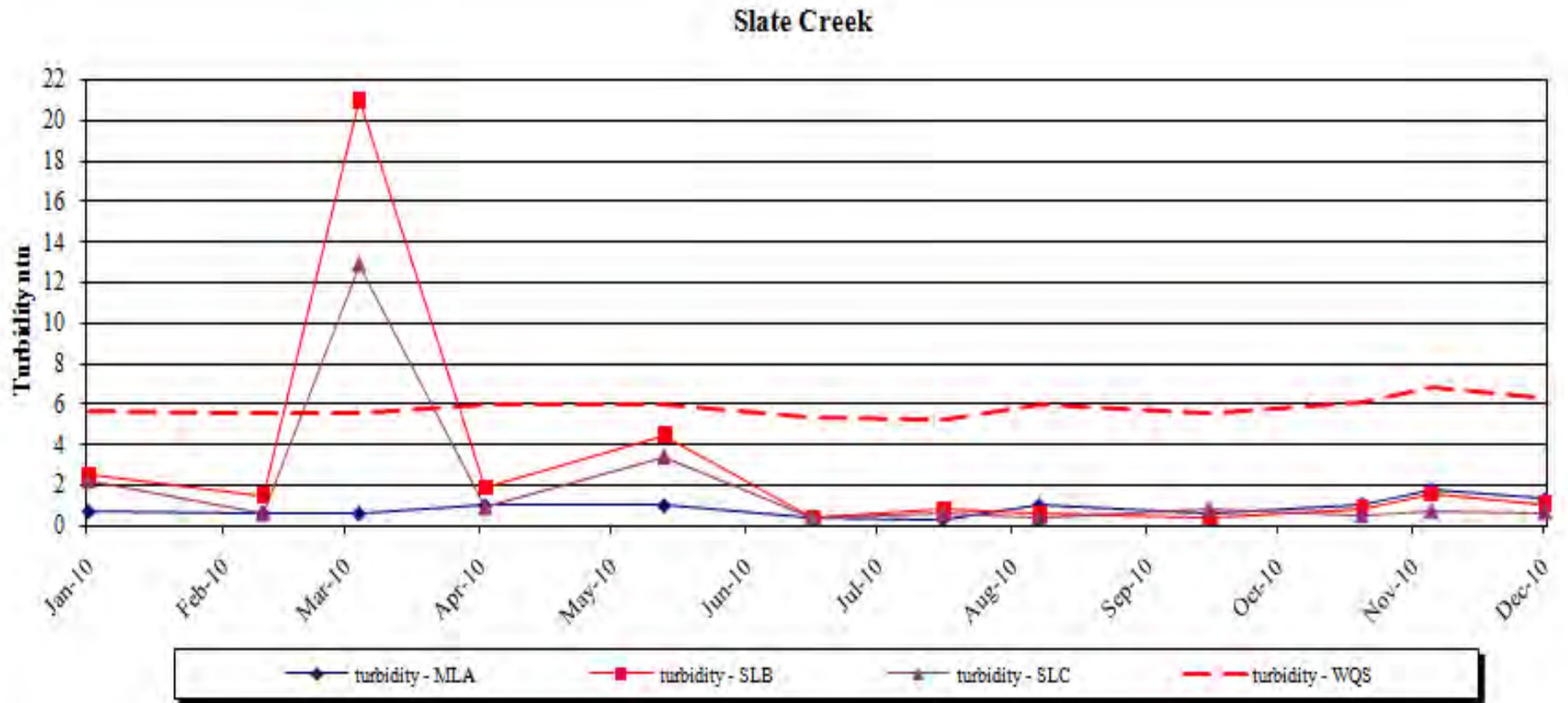


Figure 7b: Slate Creek Monitoring Results 2010, Major Chemistry

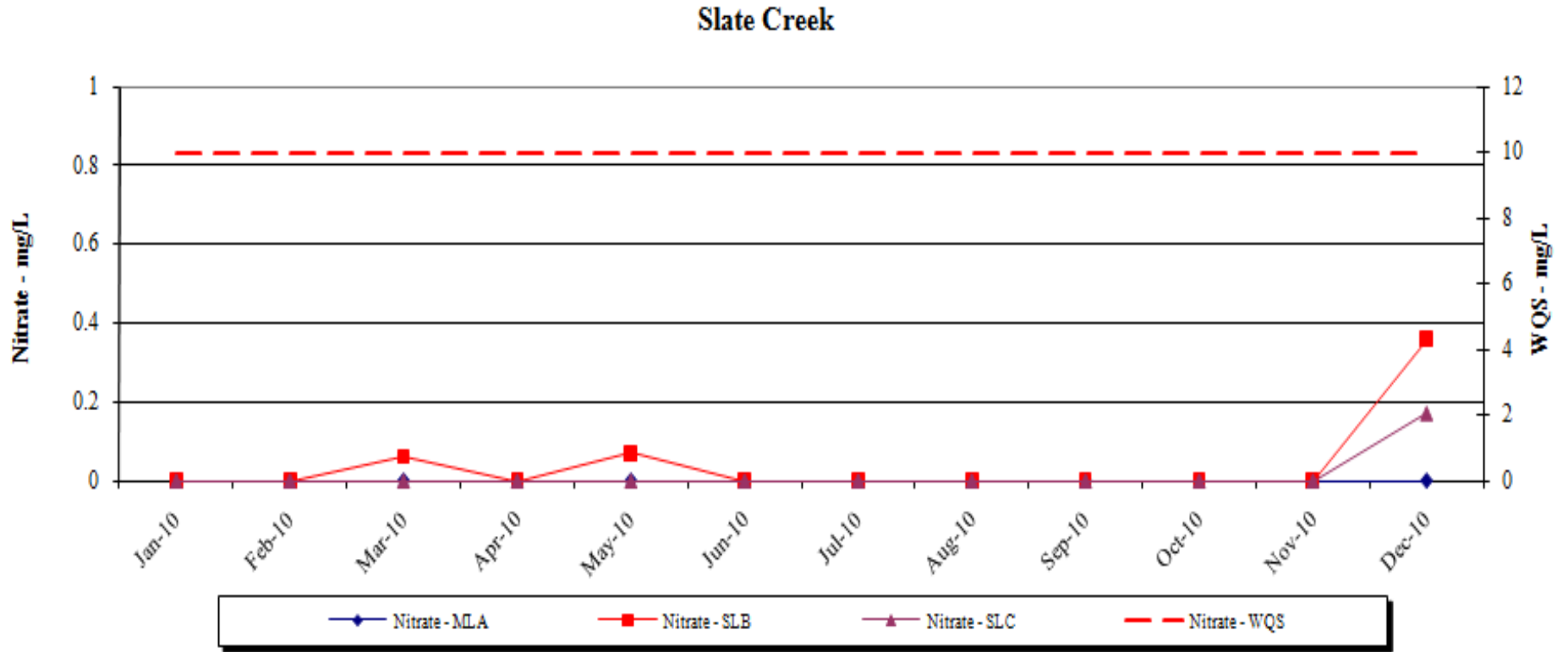


Figure 7b: Slate Creek Monitoring Results 2010, Major Chemistry

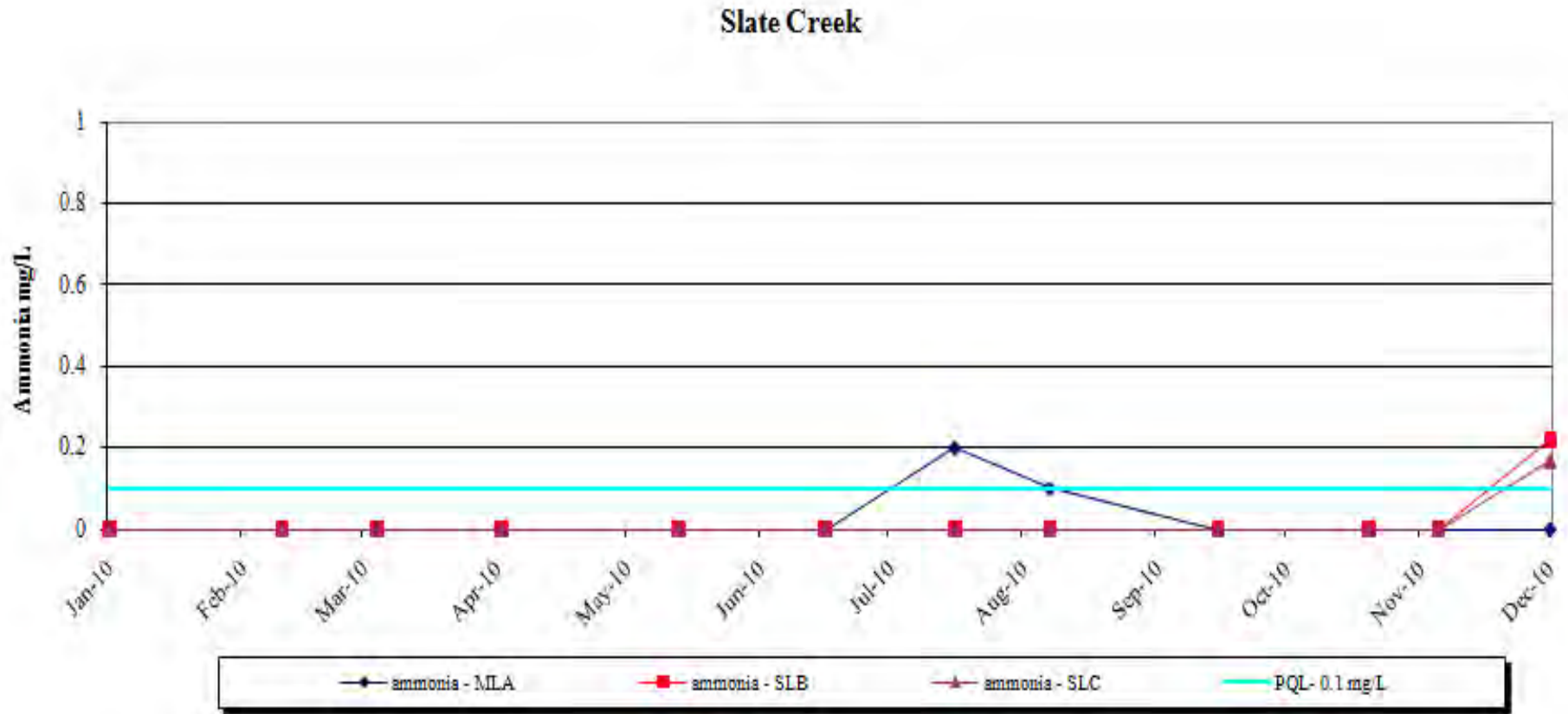


Figure 7b: Slate Creek Monitoring Results 2010, Major Chemistry

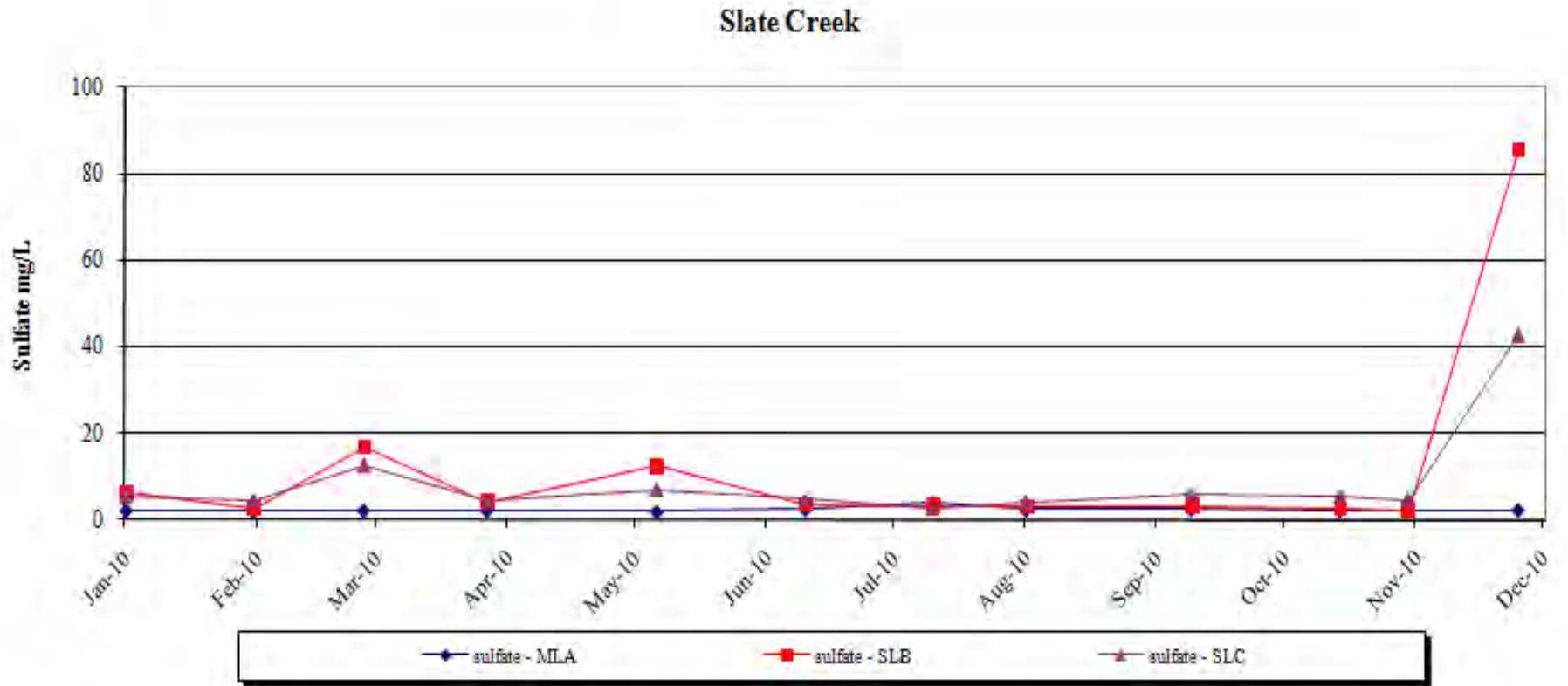


Figure 7b: Slate Creek Monitoring Results 2010, Major Chemistry

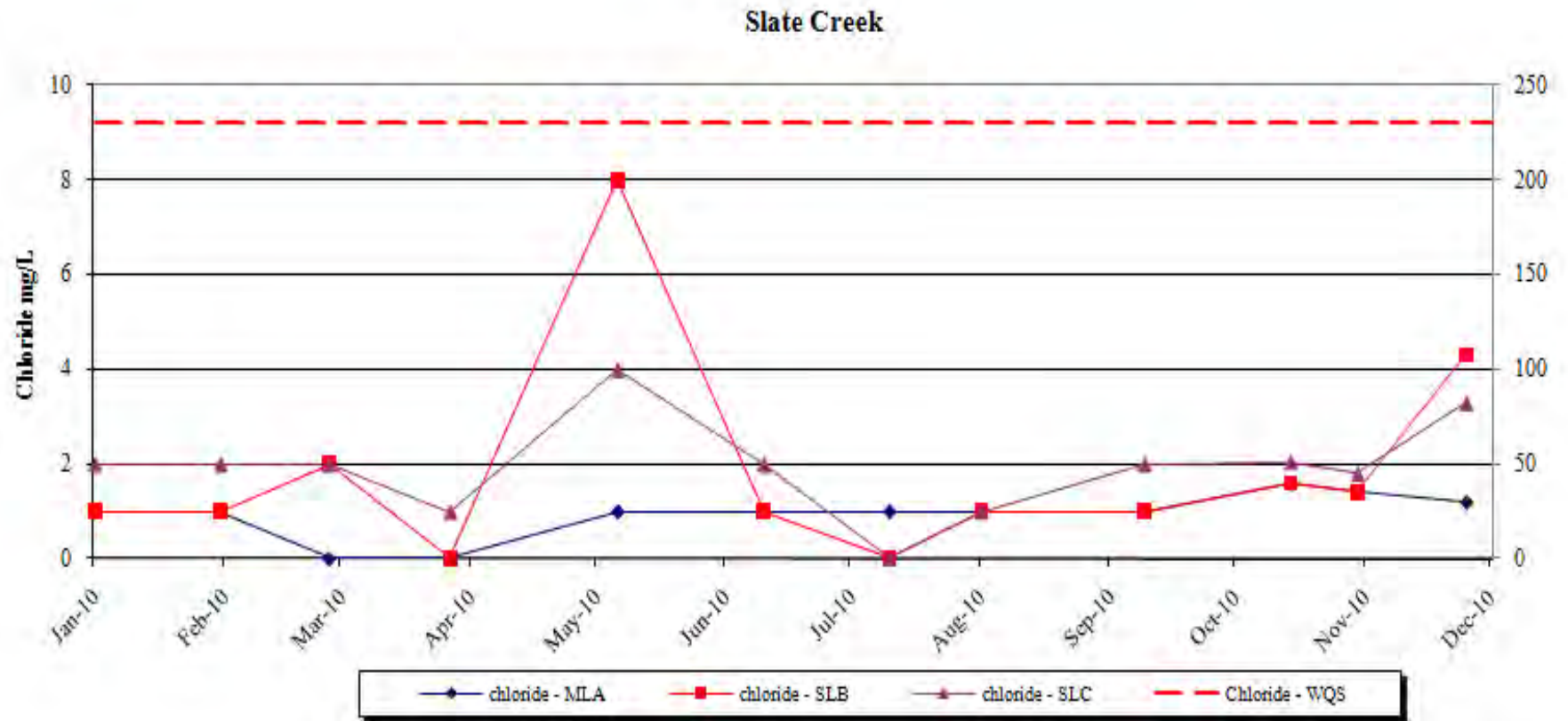


Figure 7b: Slate Creek Monitoring Results 2010, Major Chemistry

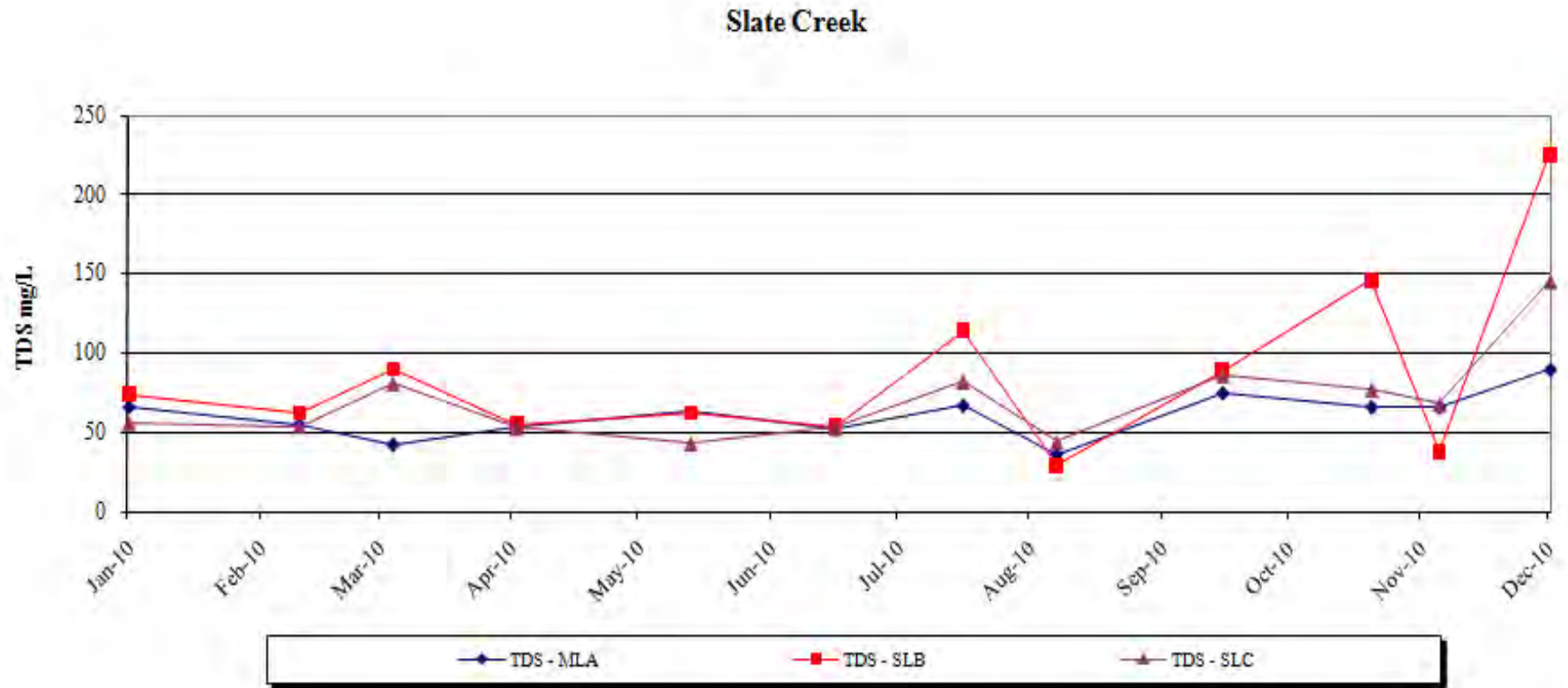


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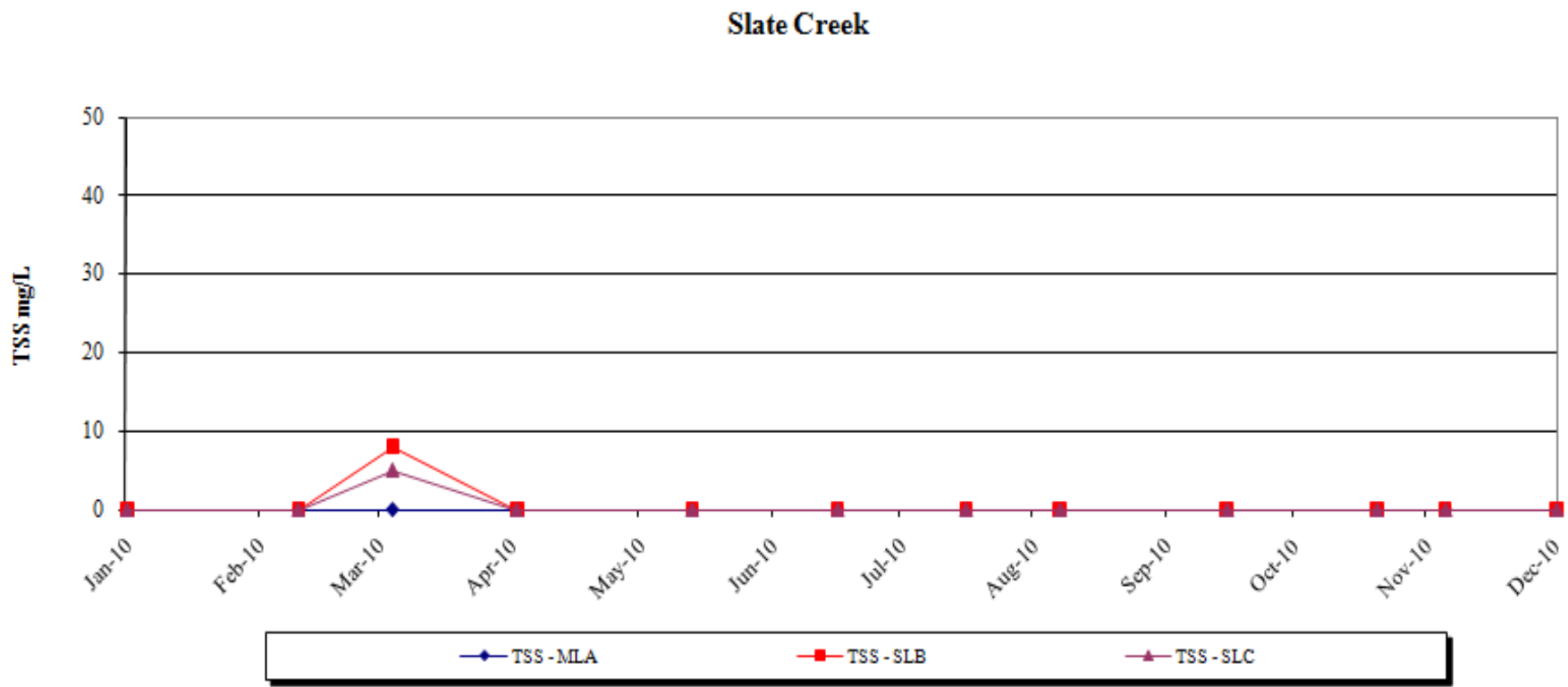


Figure 7b: Slate Creek Monitoring Results 2010, Major Chemistry

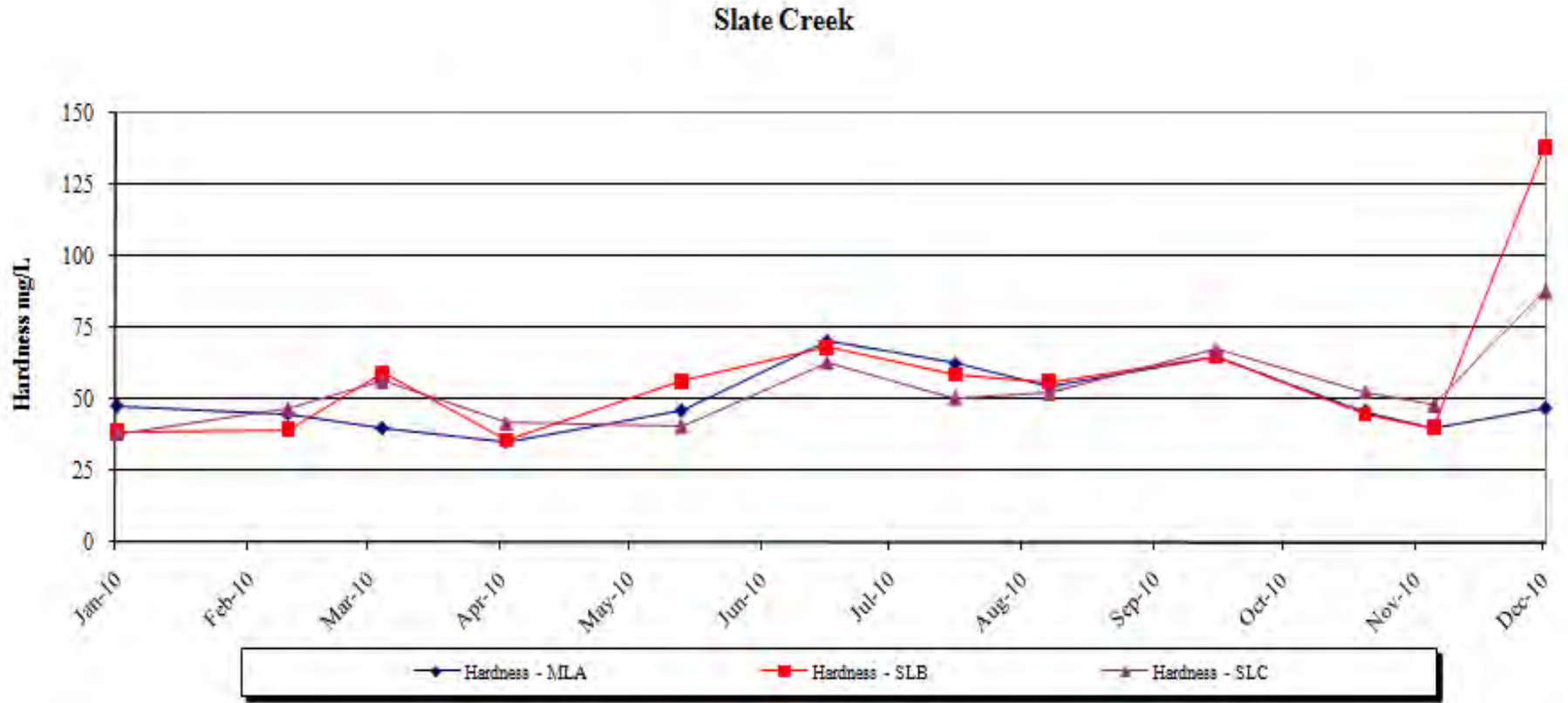


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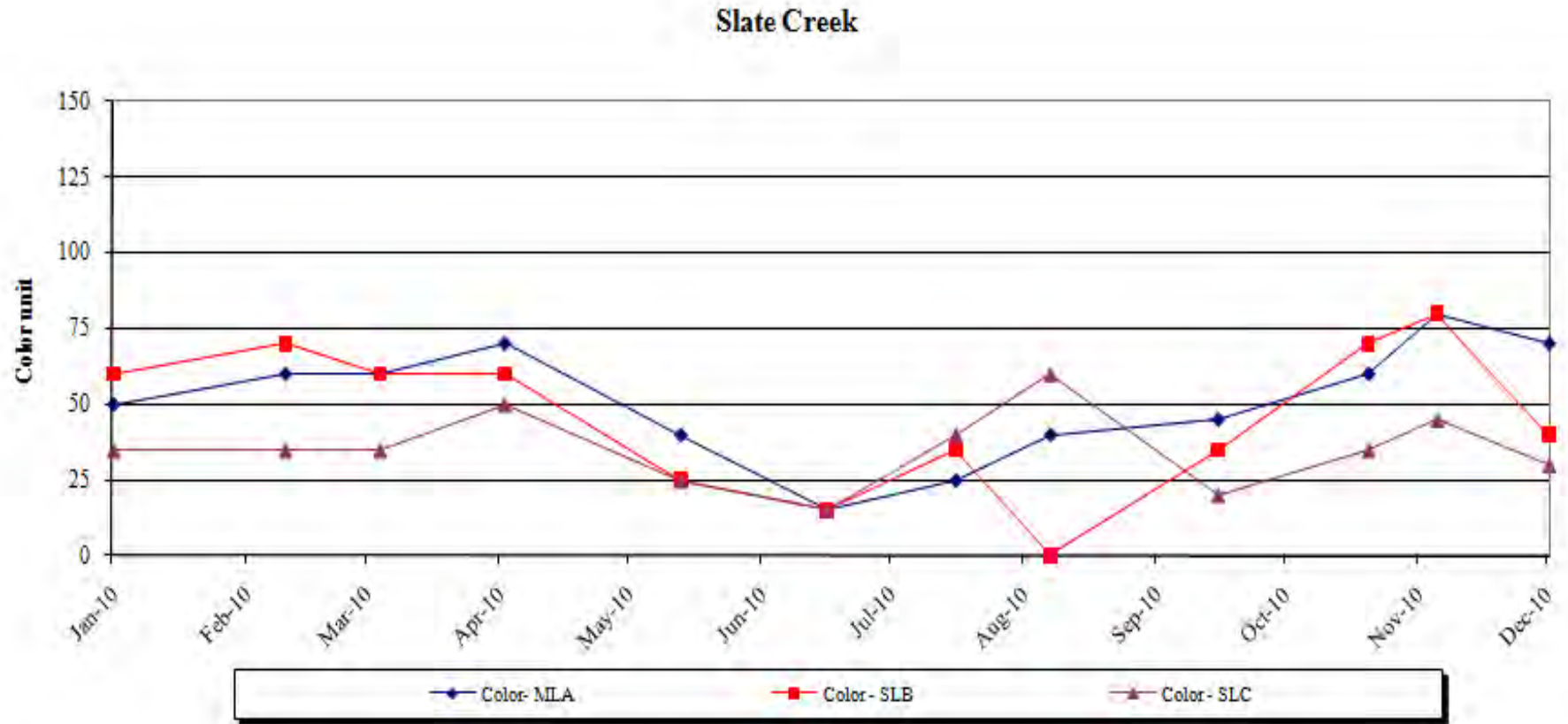


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

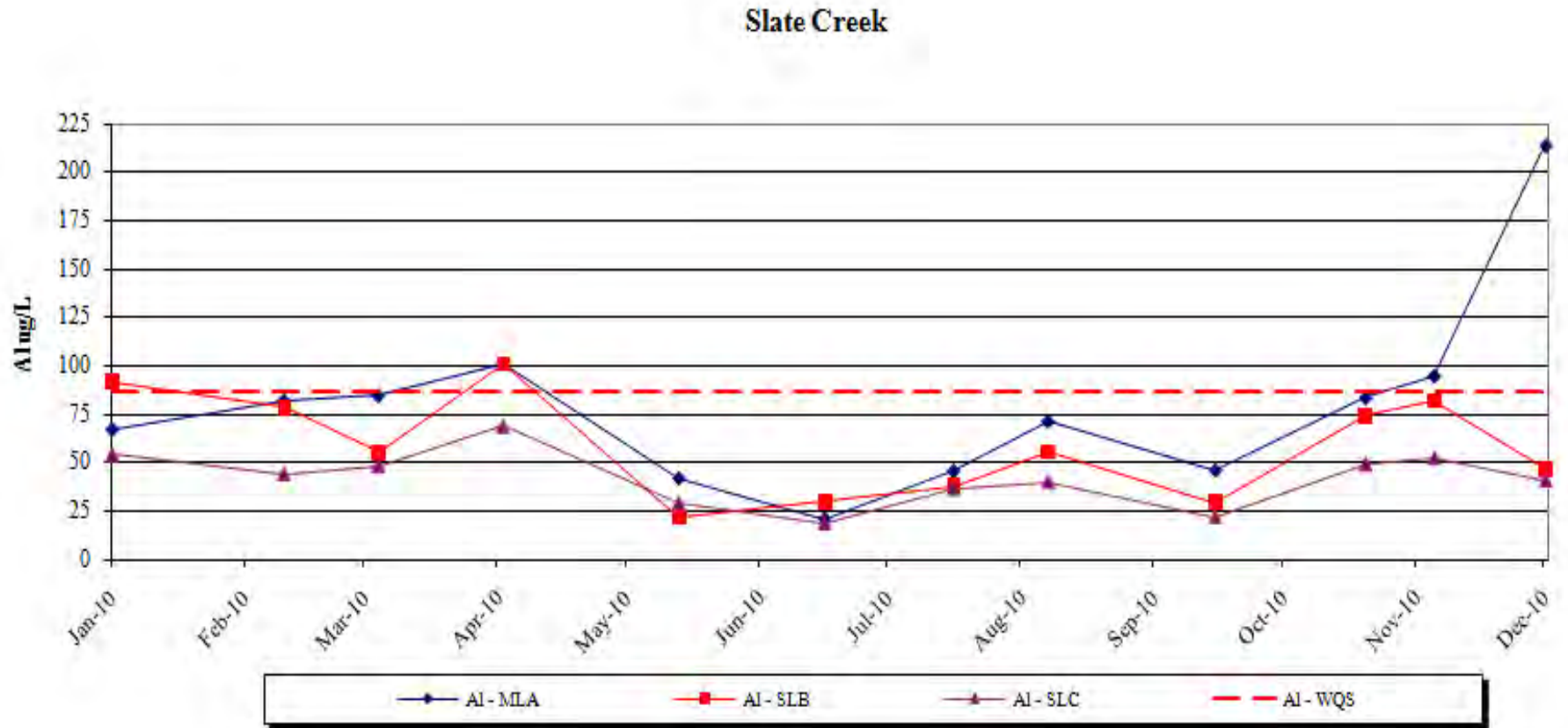


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

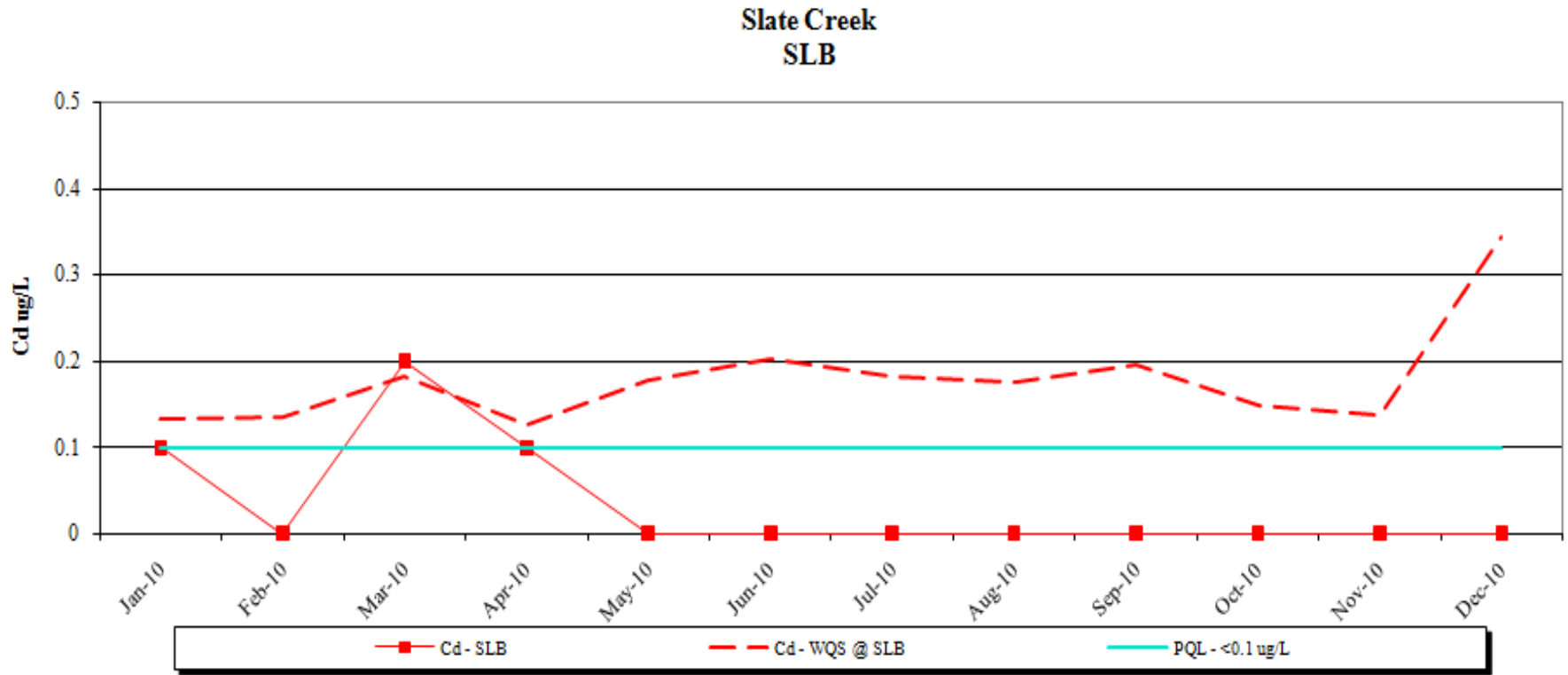


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

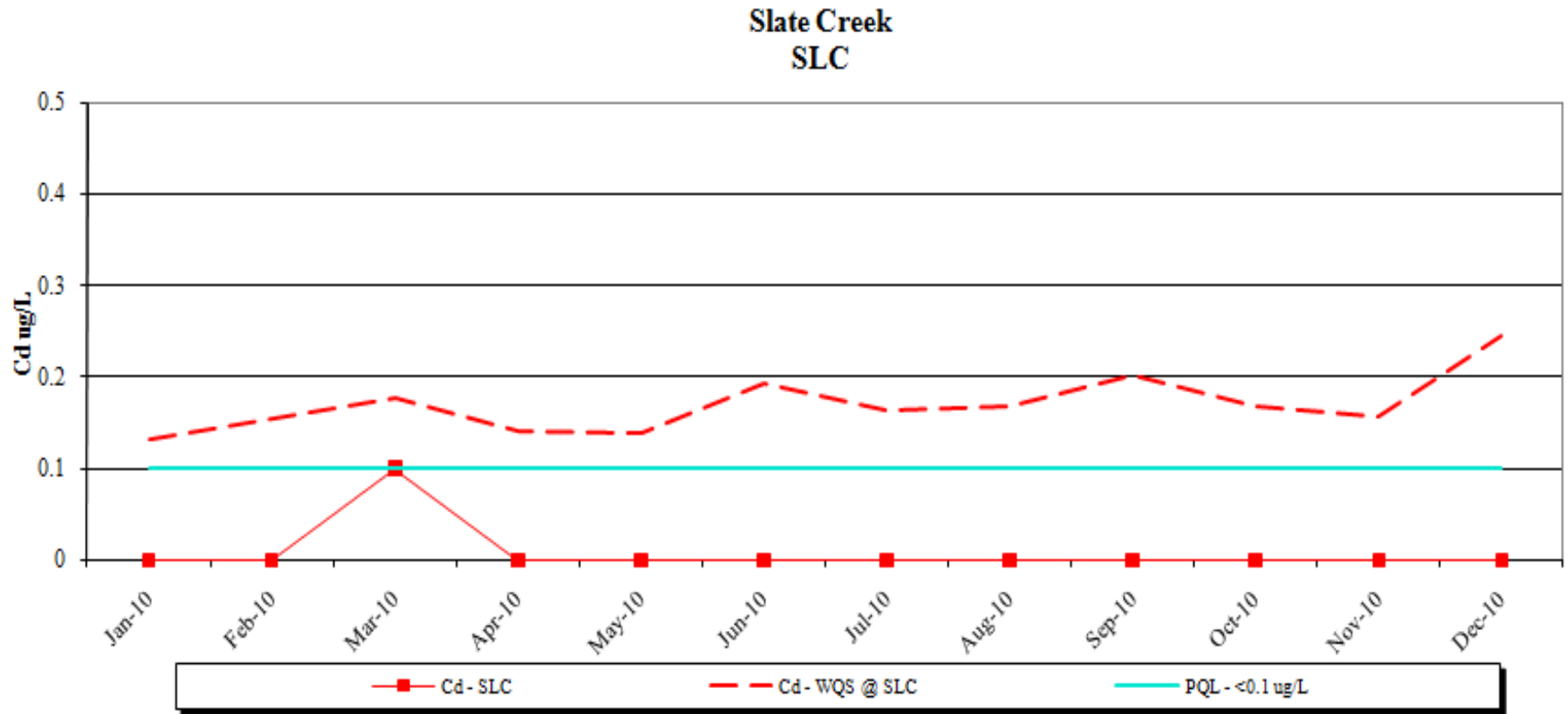


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

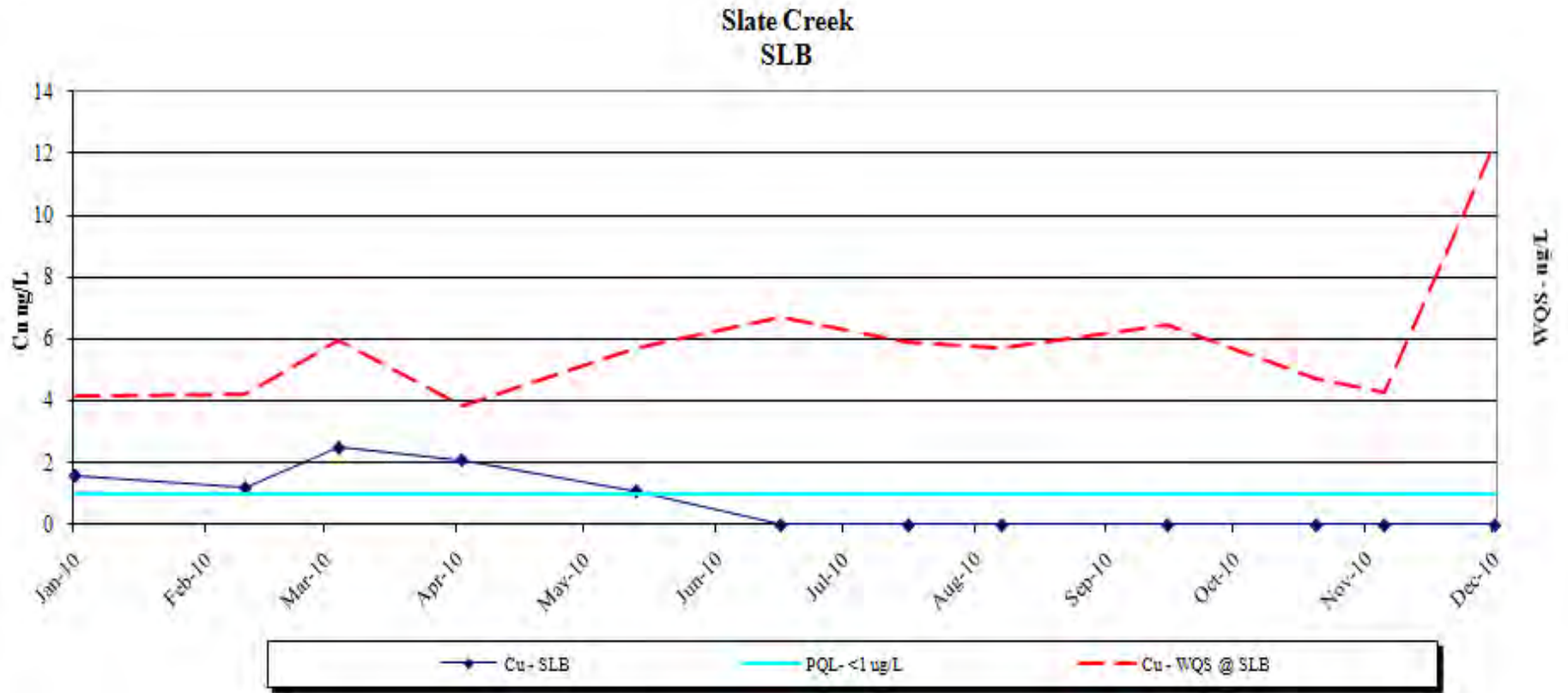


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

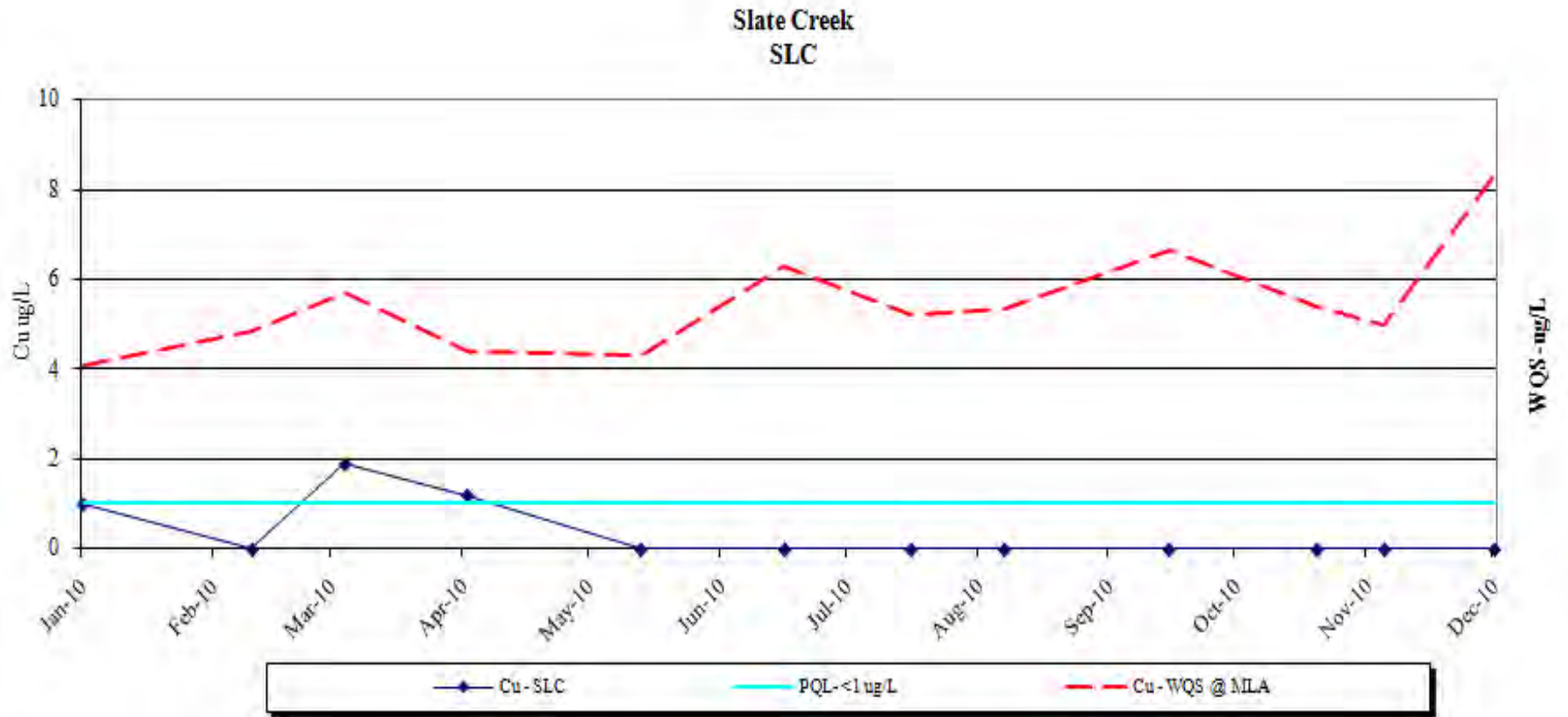


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

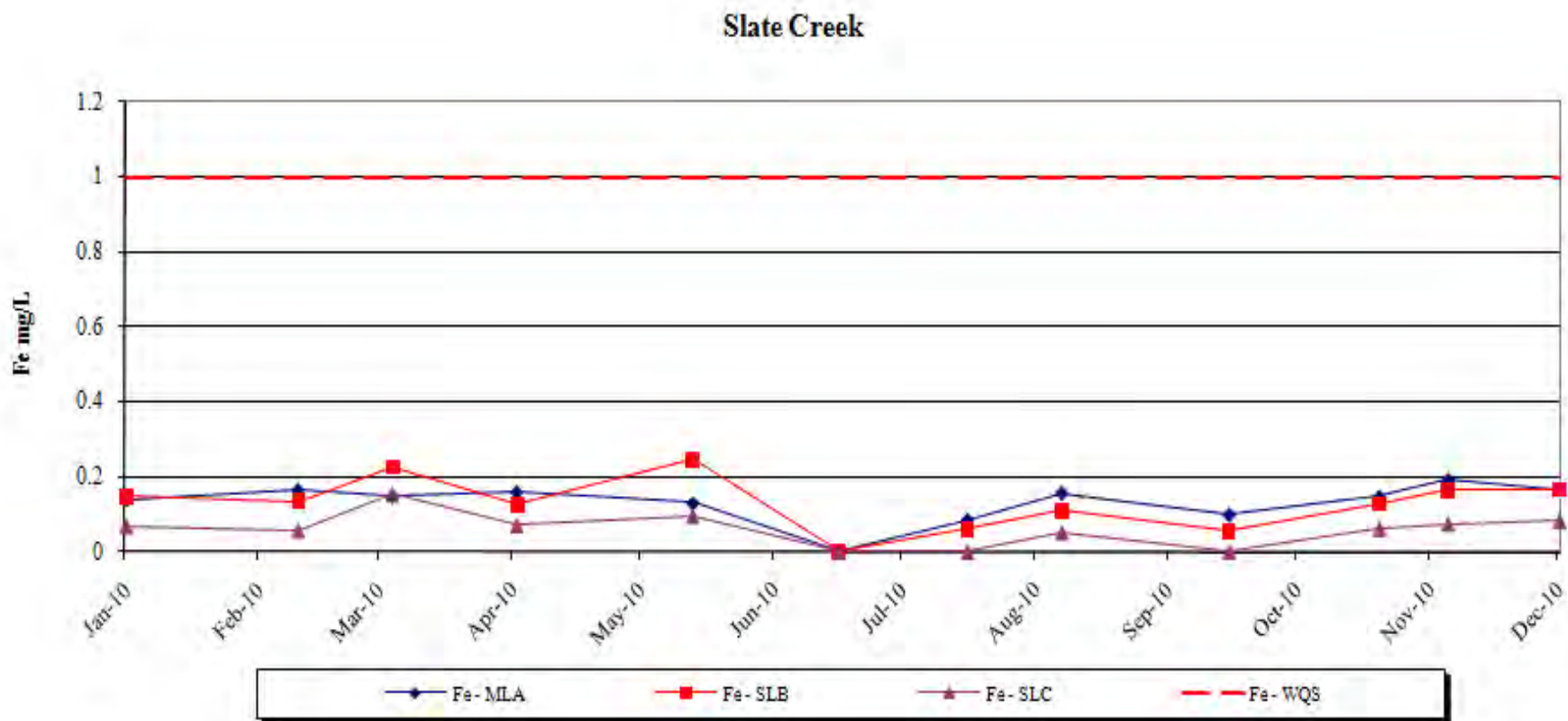


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

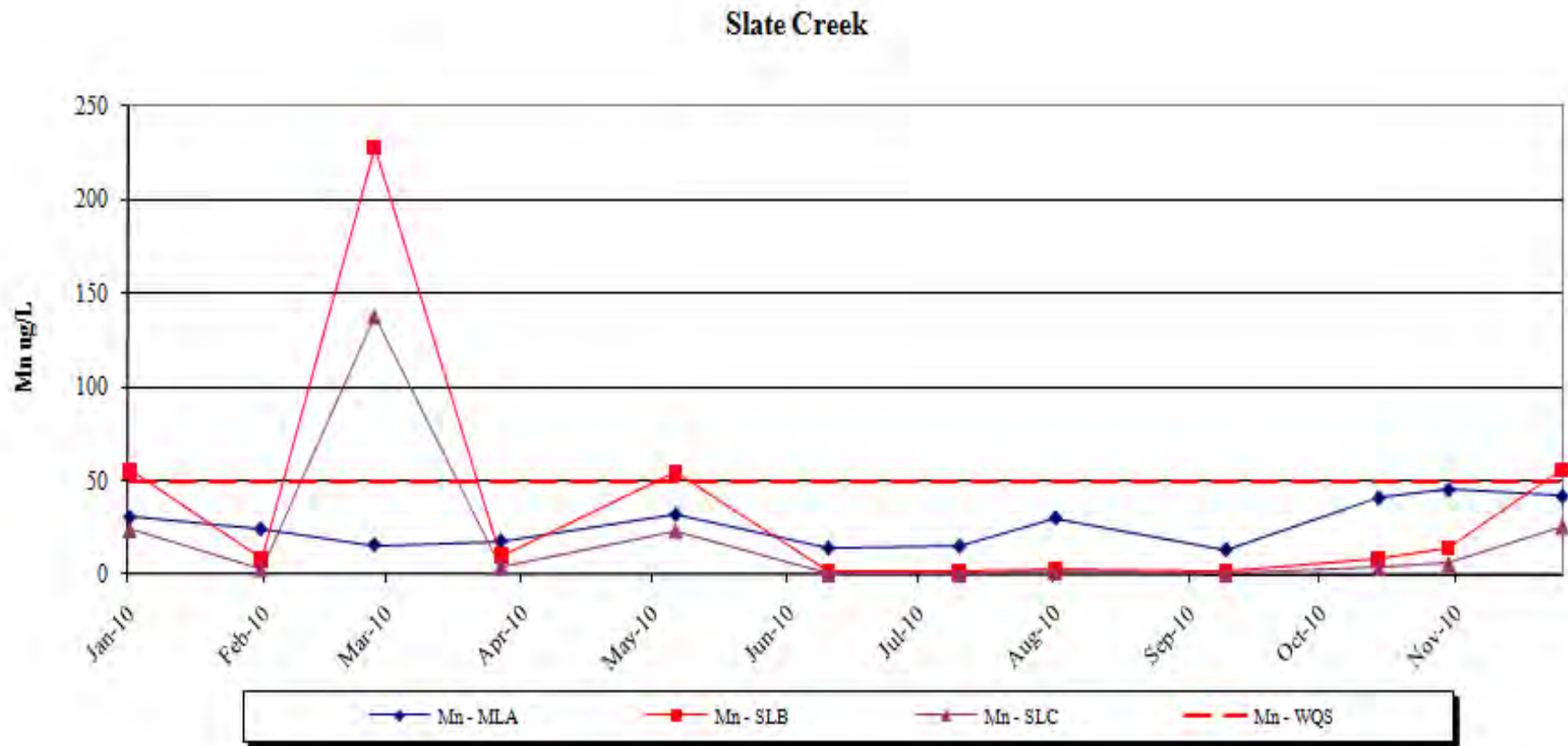


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

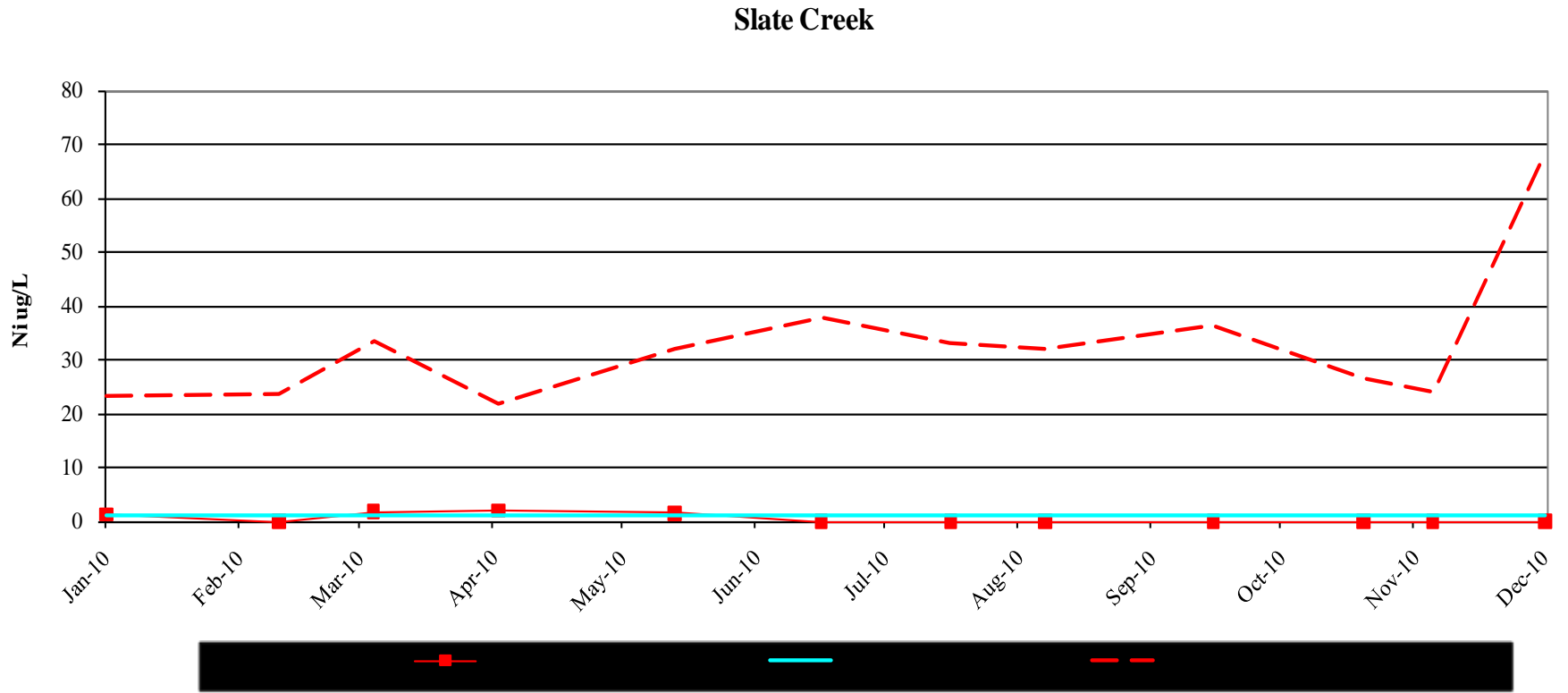


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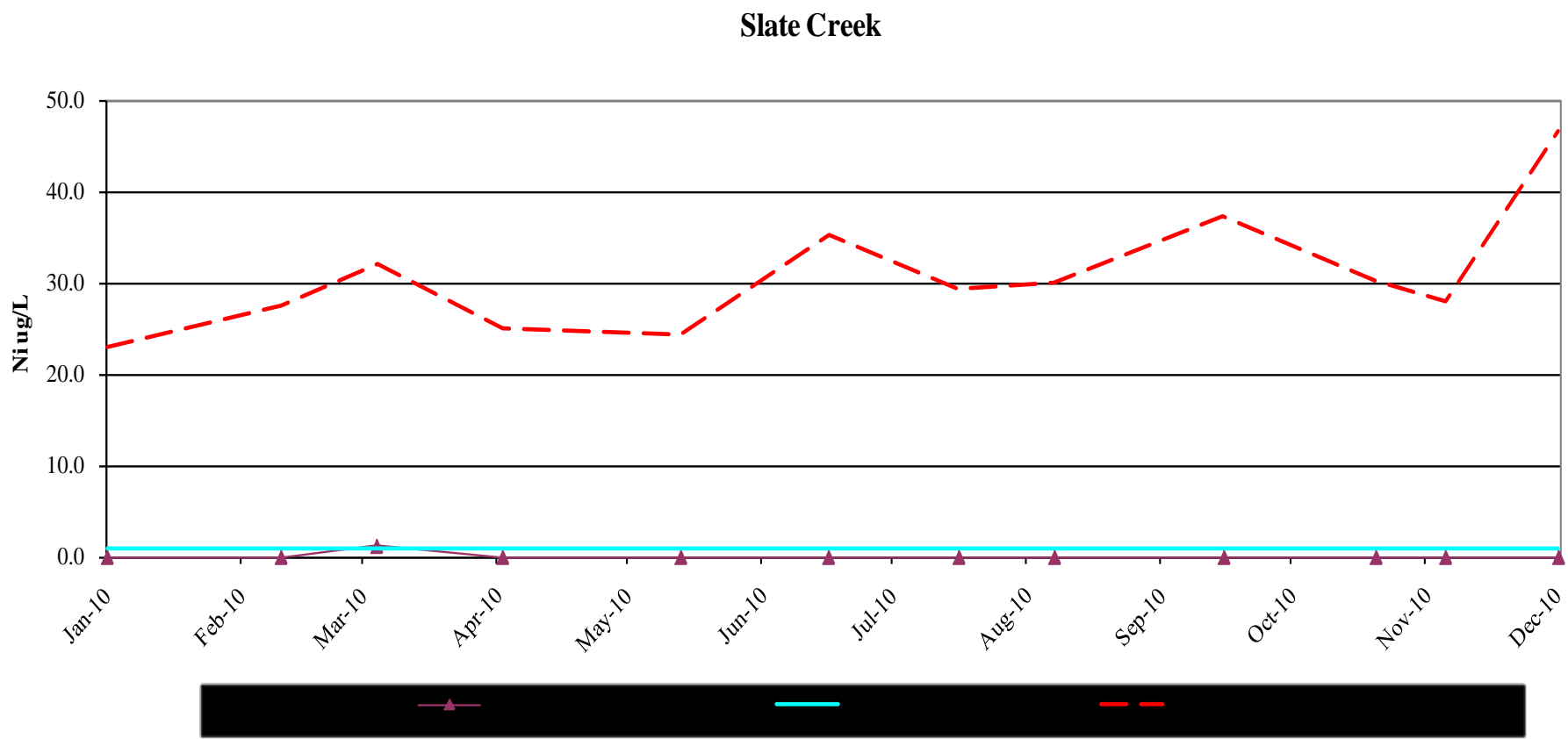


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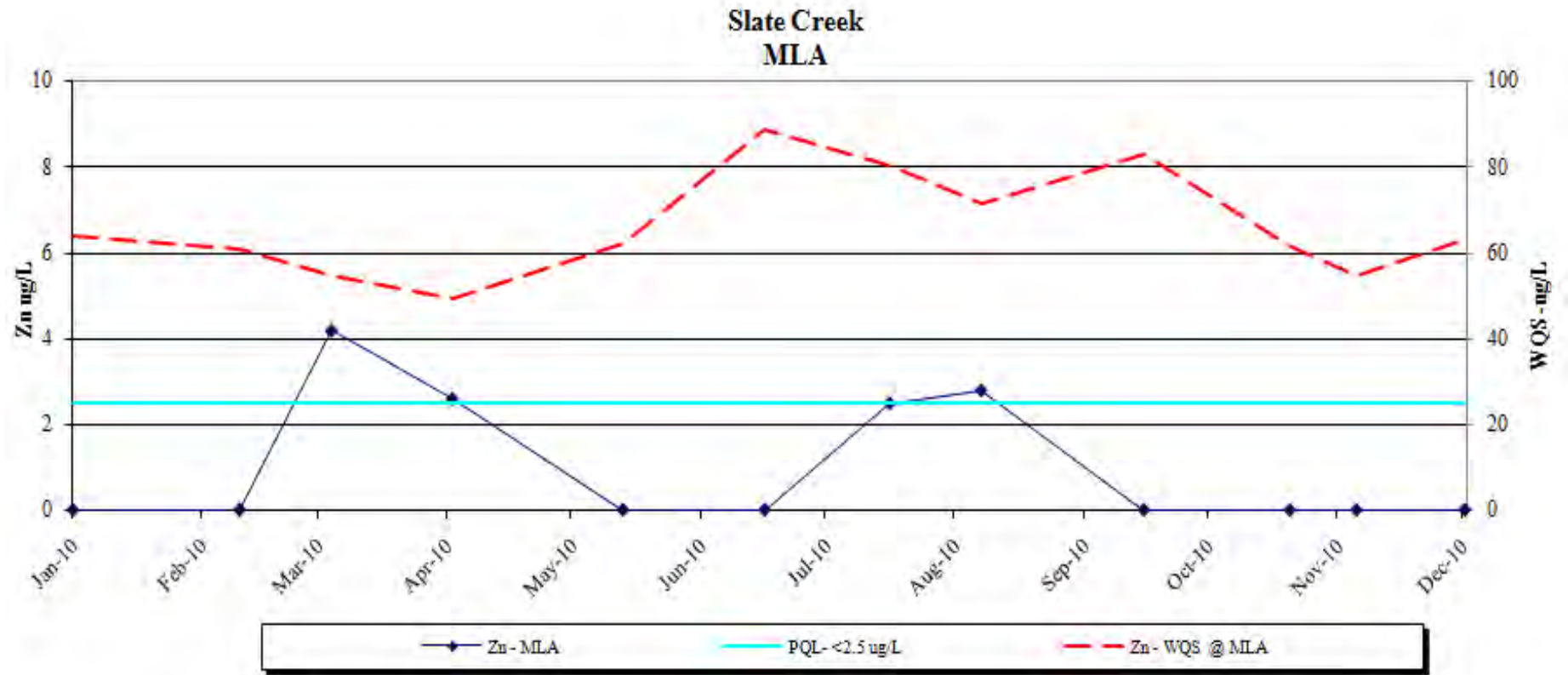


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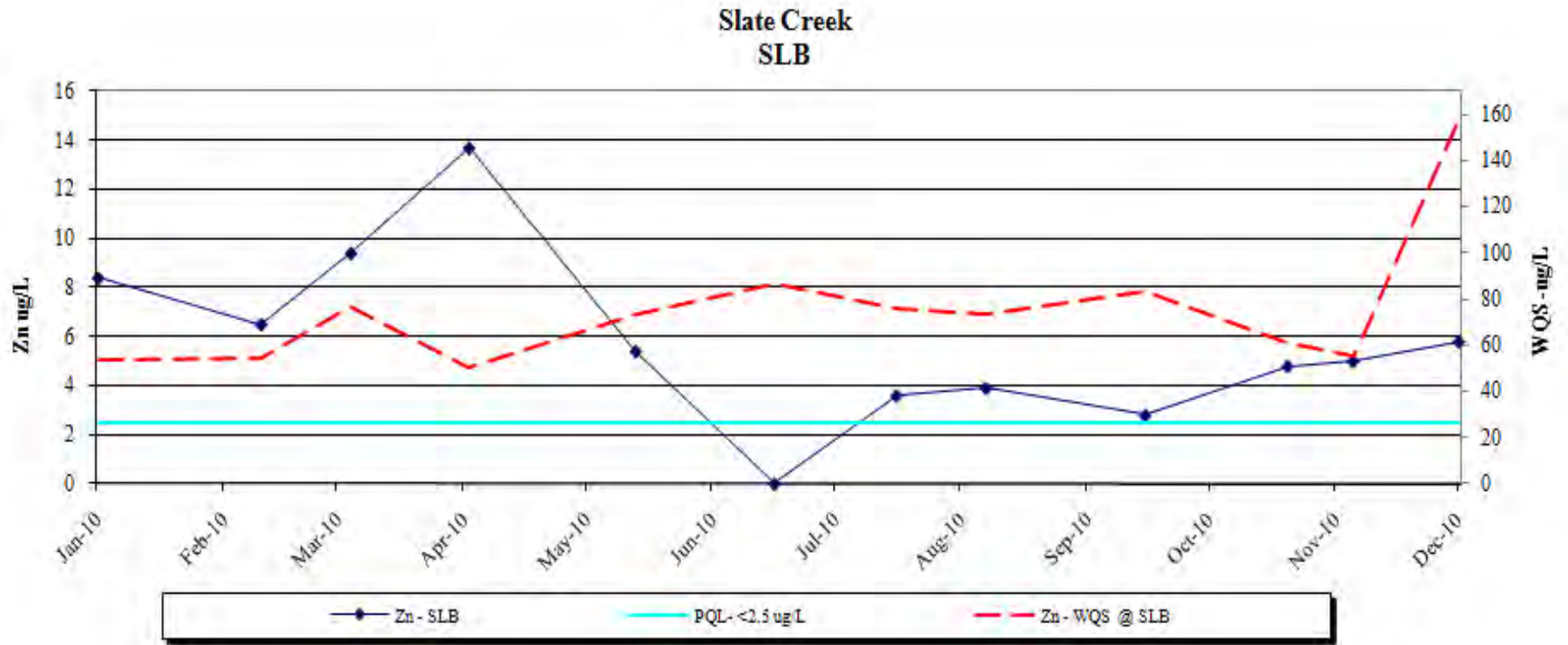


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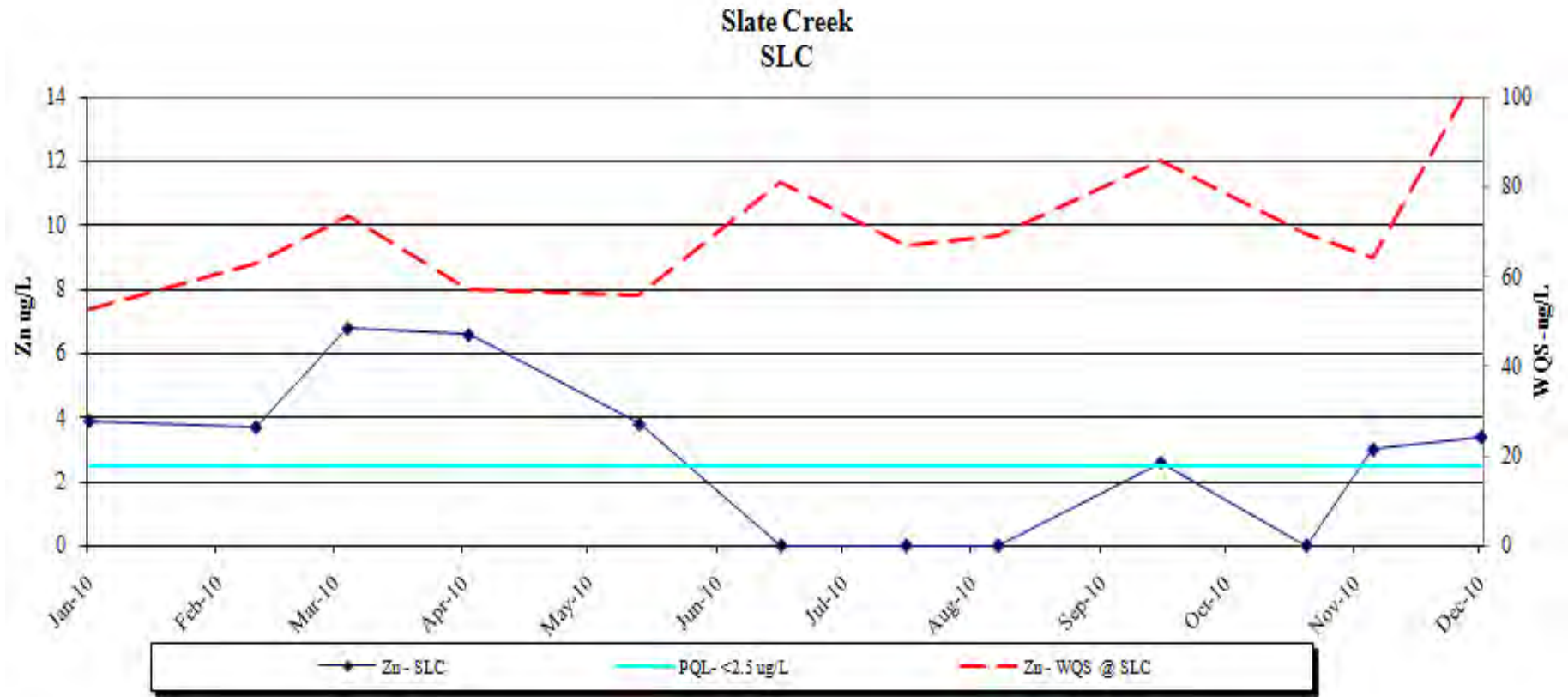


Figure 7c: Slate Creek Monitoring Results 2010, Trace Chemistry

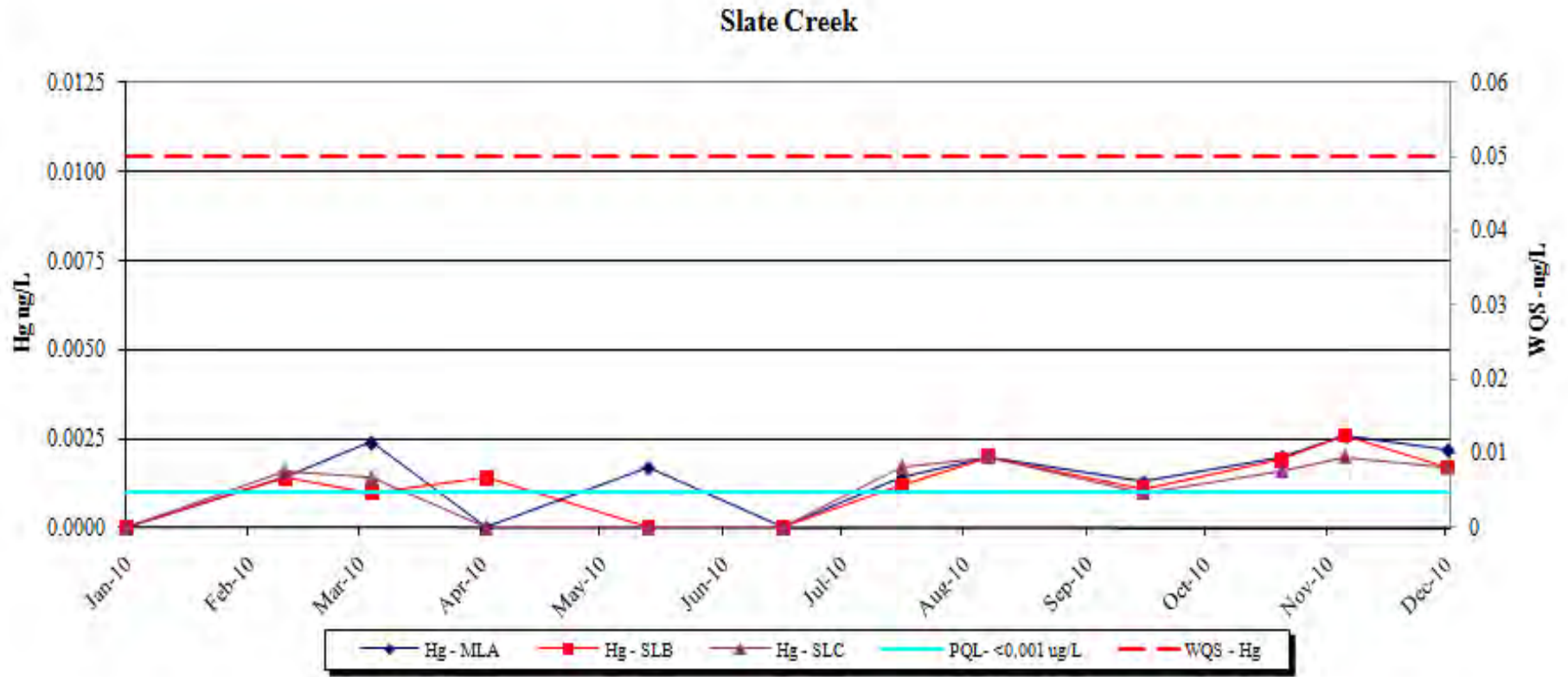


Figure 8a: Sherman Creek Monitoring Results 2010, Field Parameters

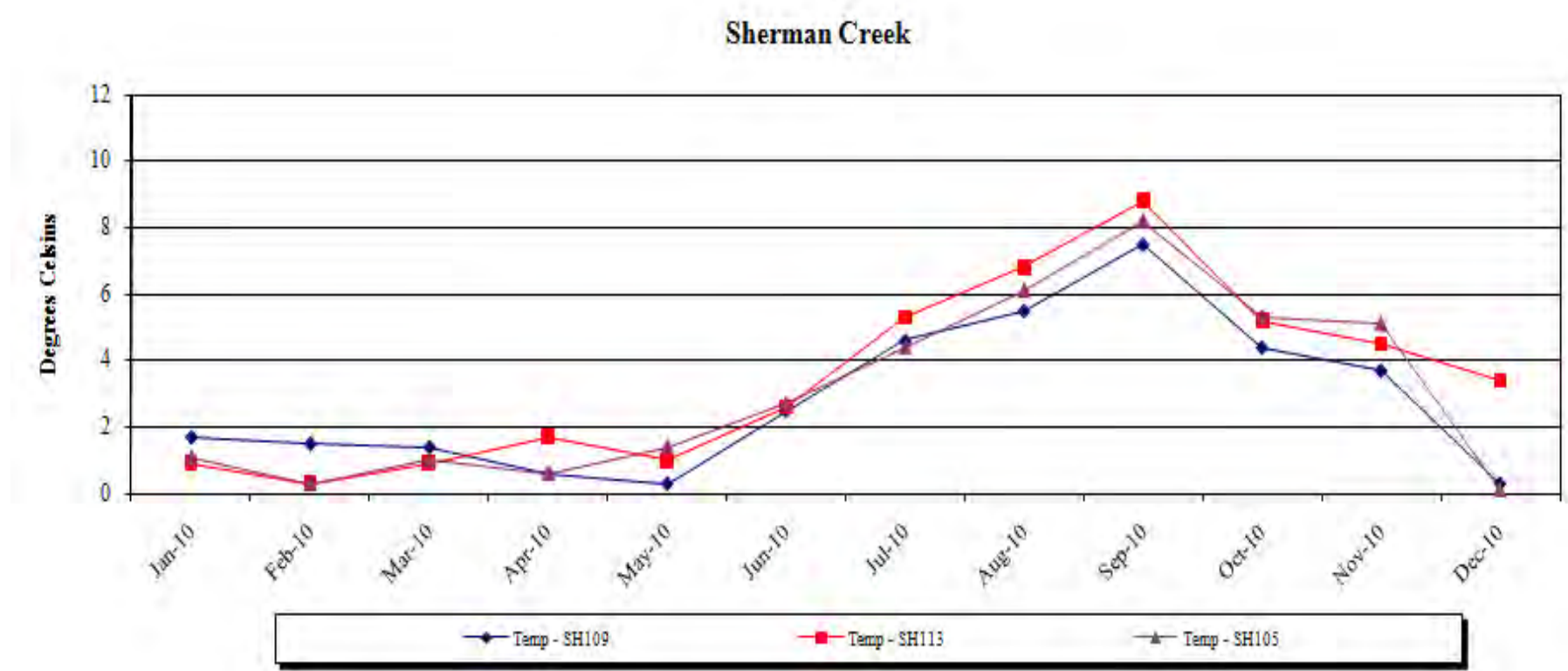


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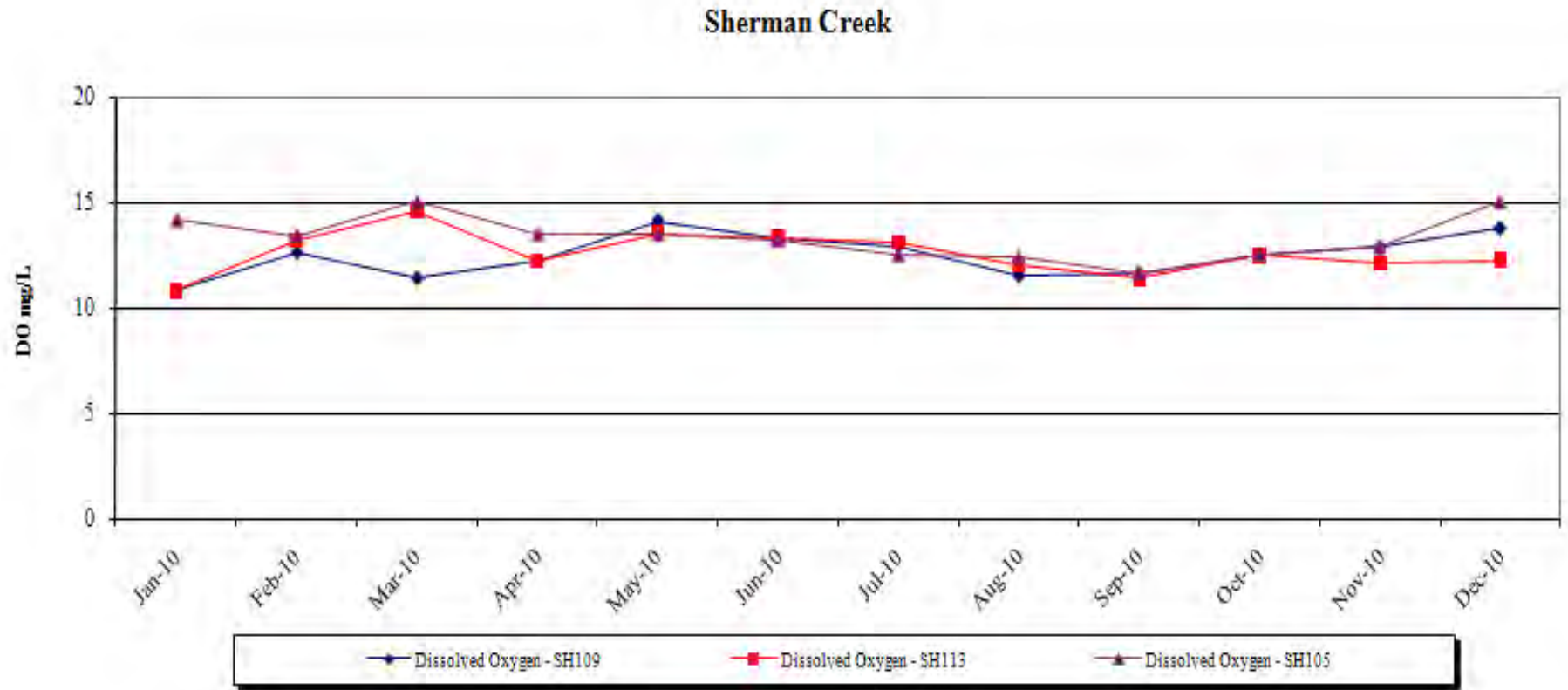


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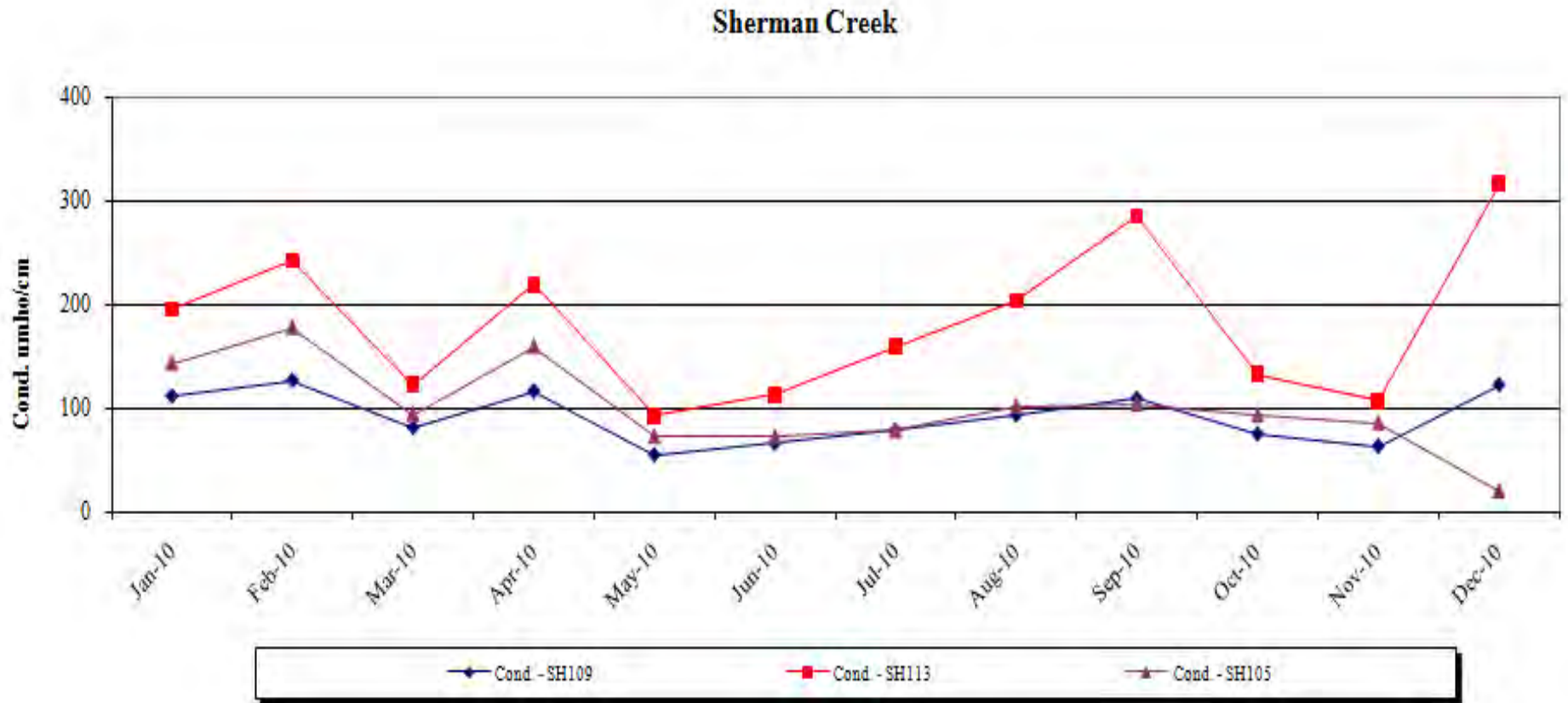


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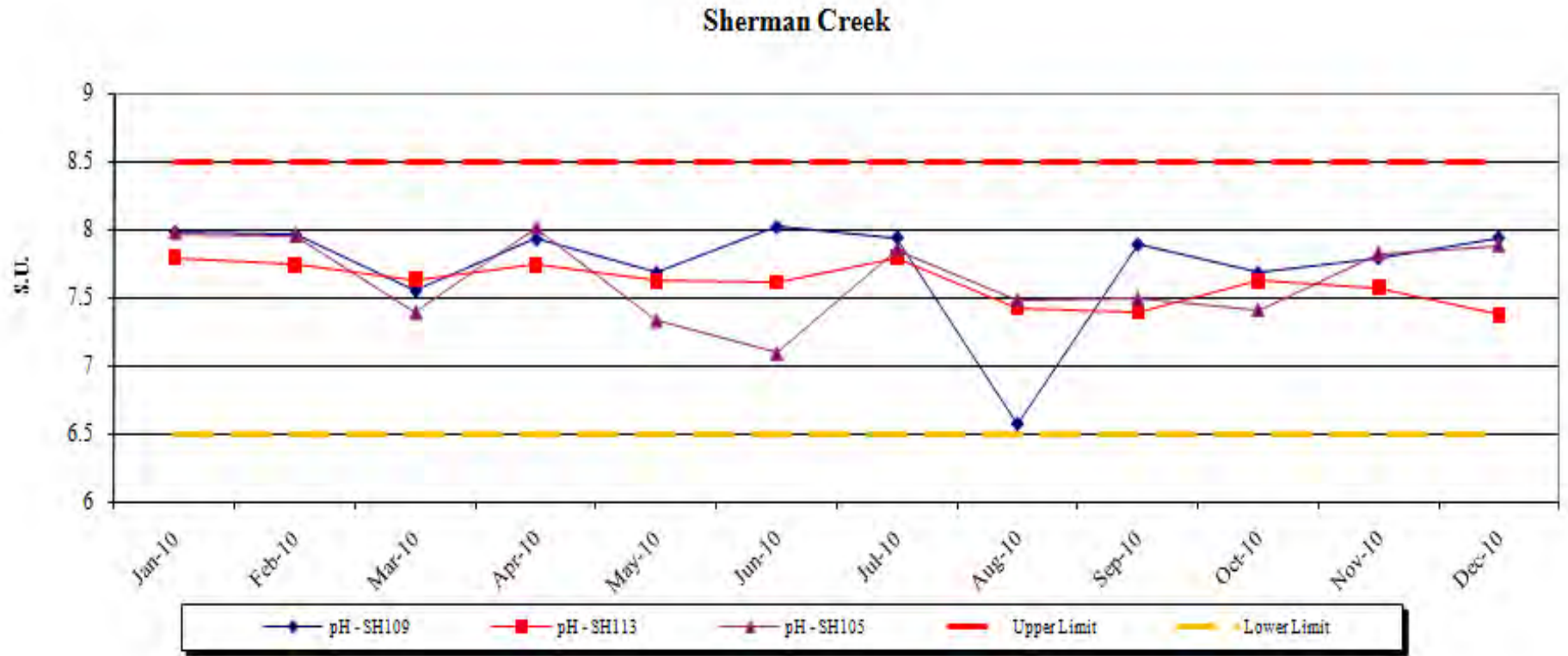


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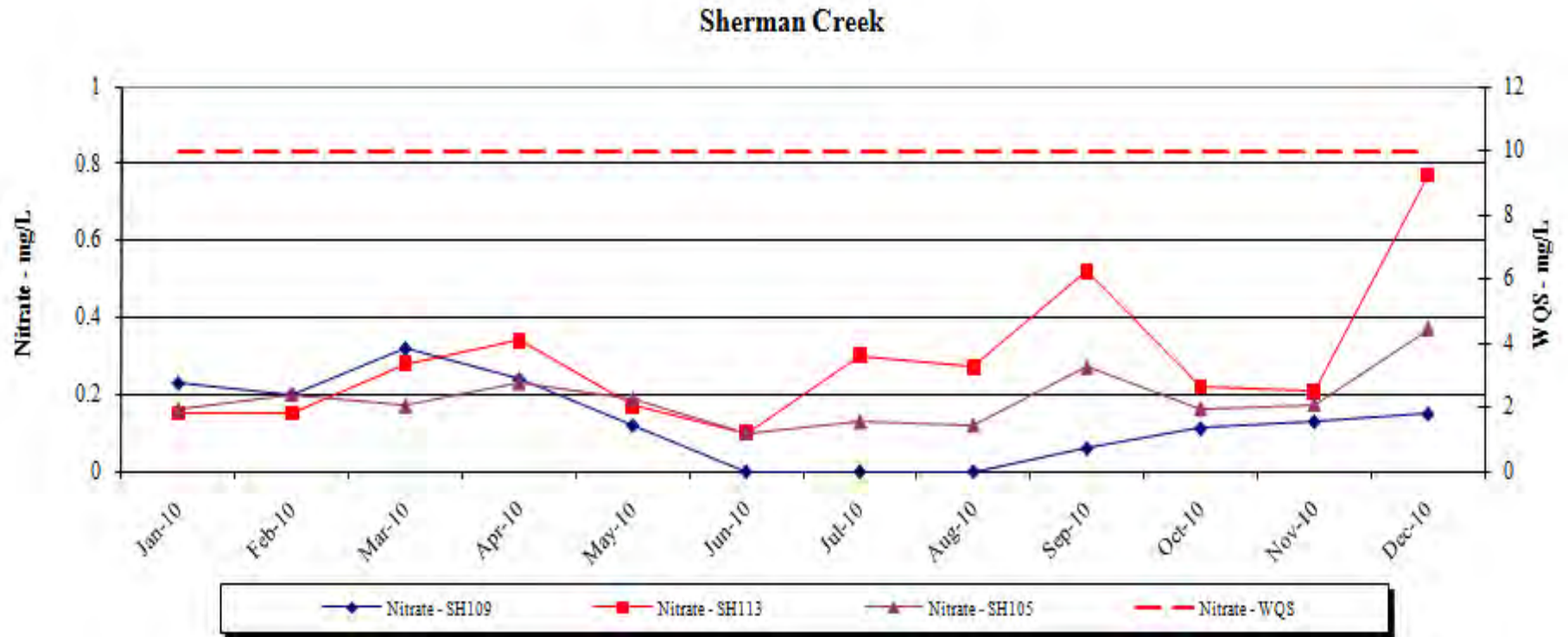


Figure 8b: Sherman Creek Monitoring Results 2010, Major Chemistry

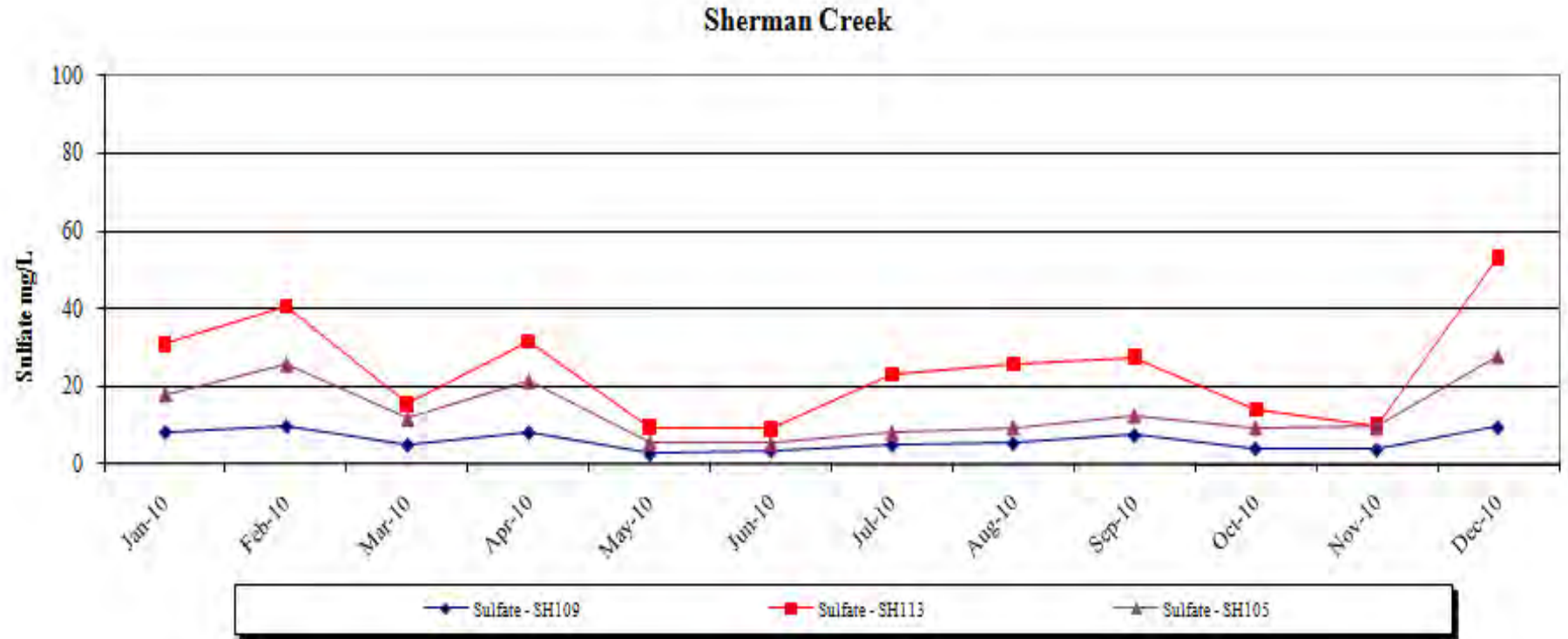


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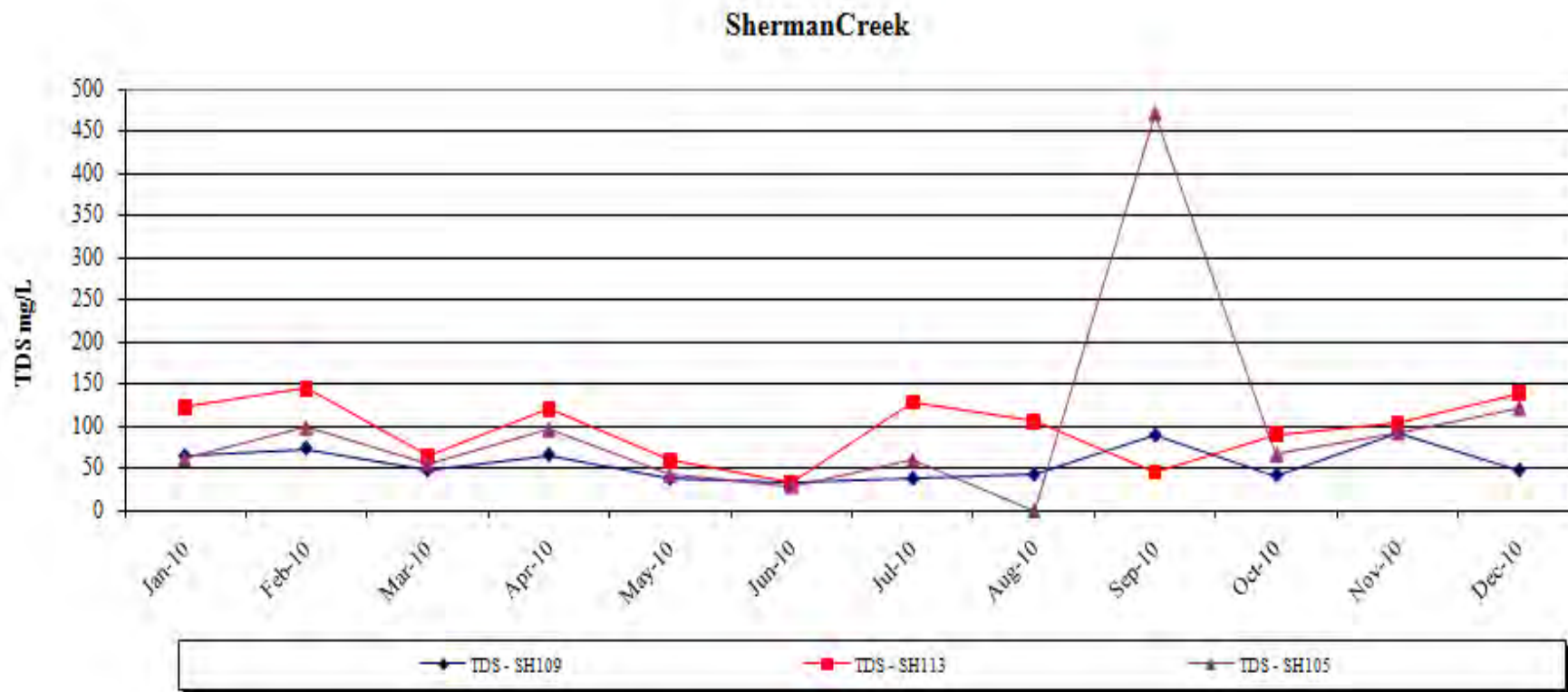


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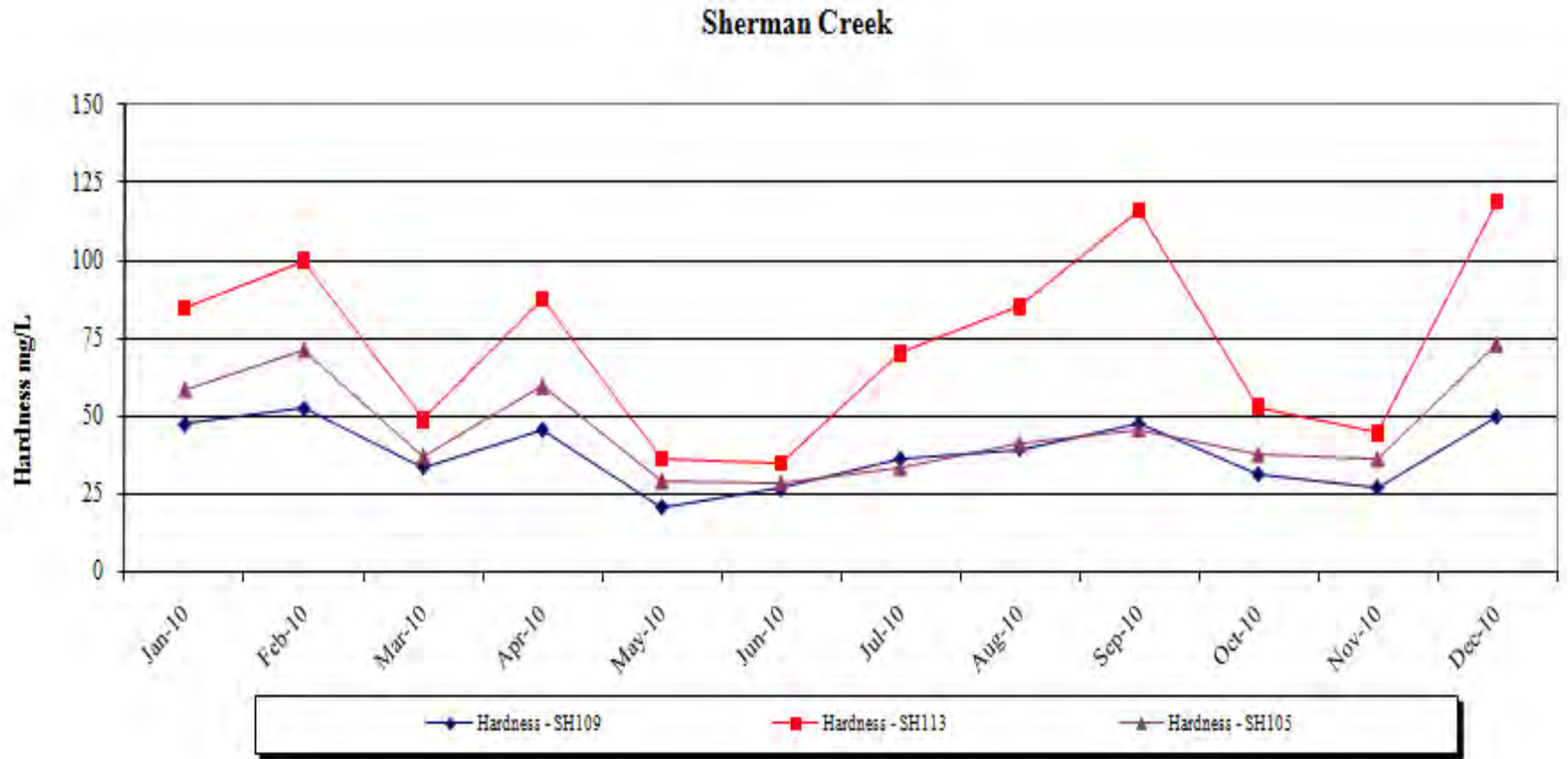


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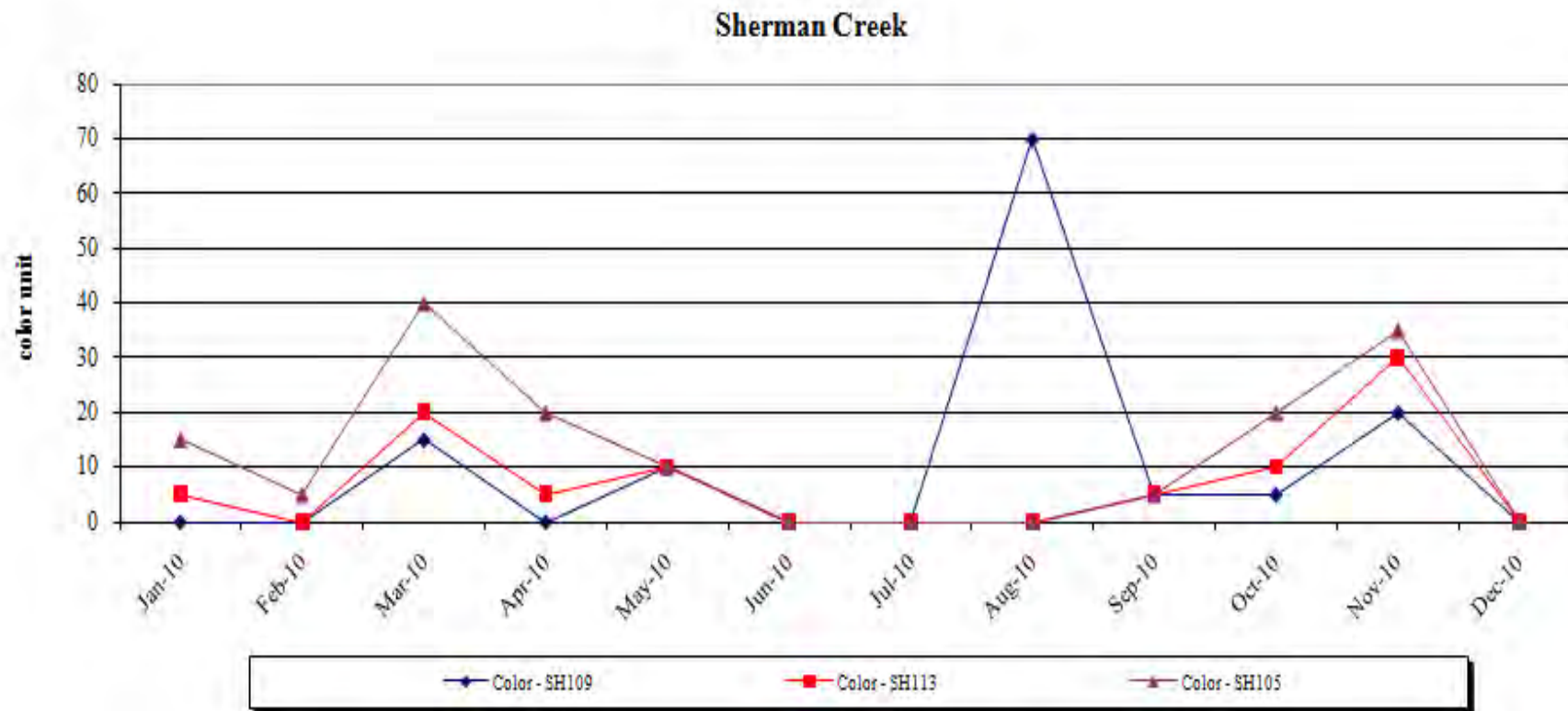


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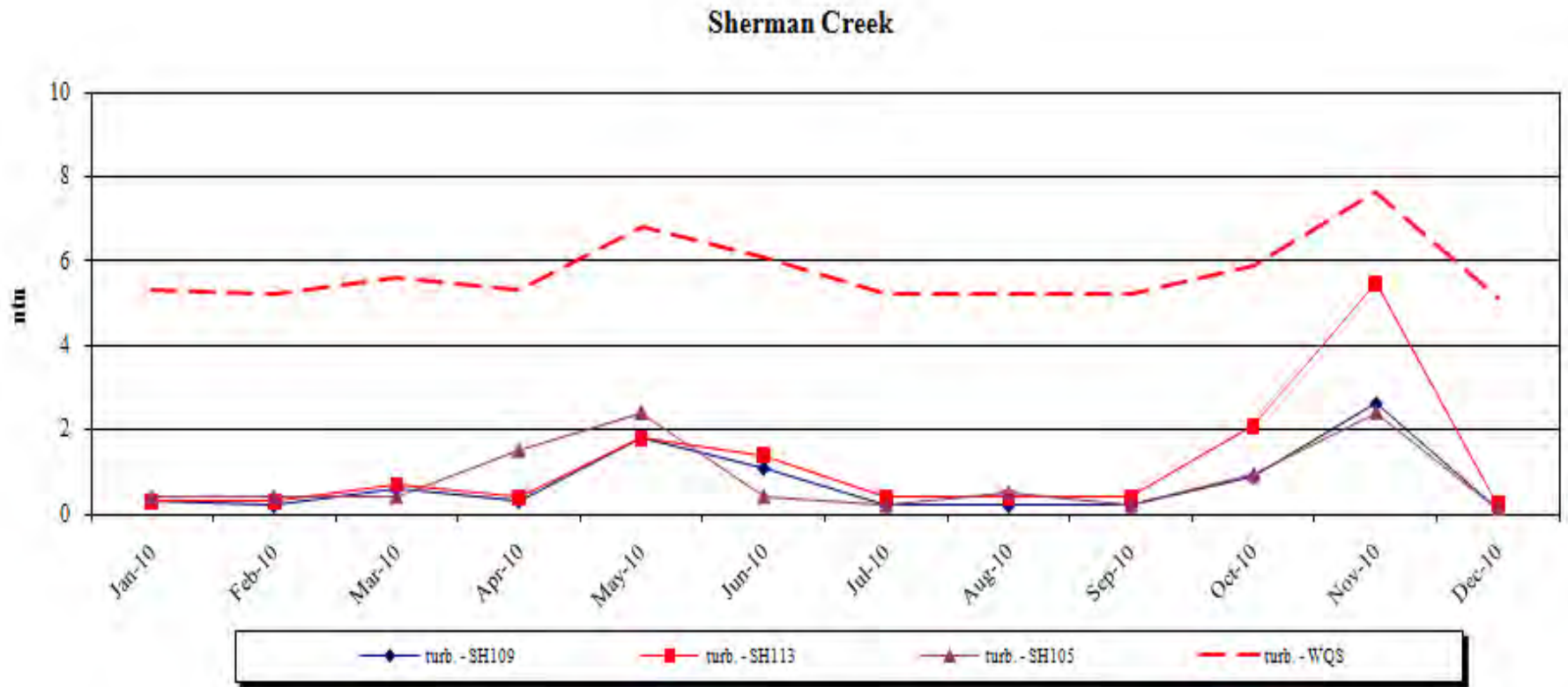


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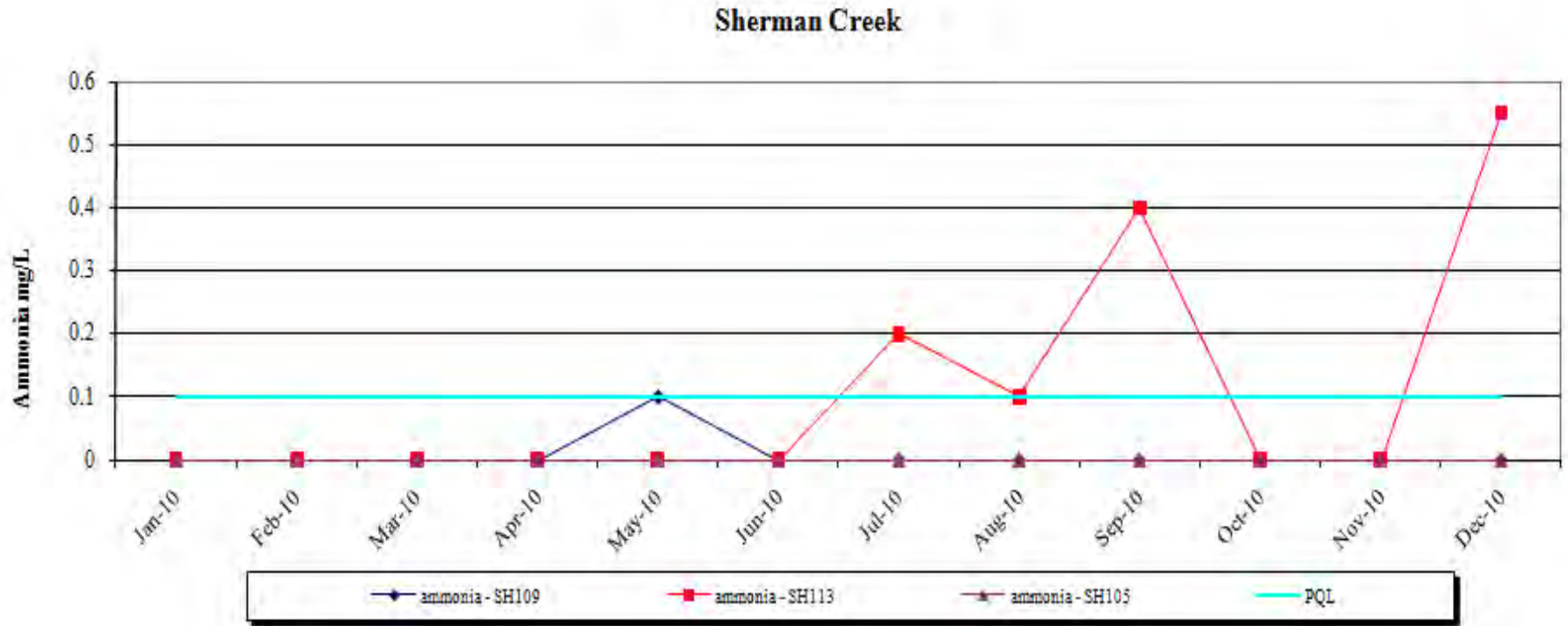


Figure 8b: Sherman Creek Monitoring Results 2010, Major Chemistry

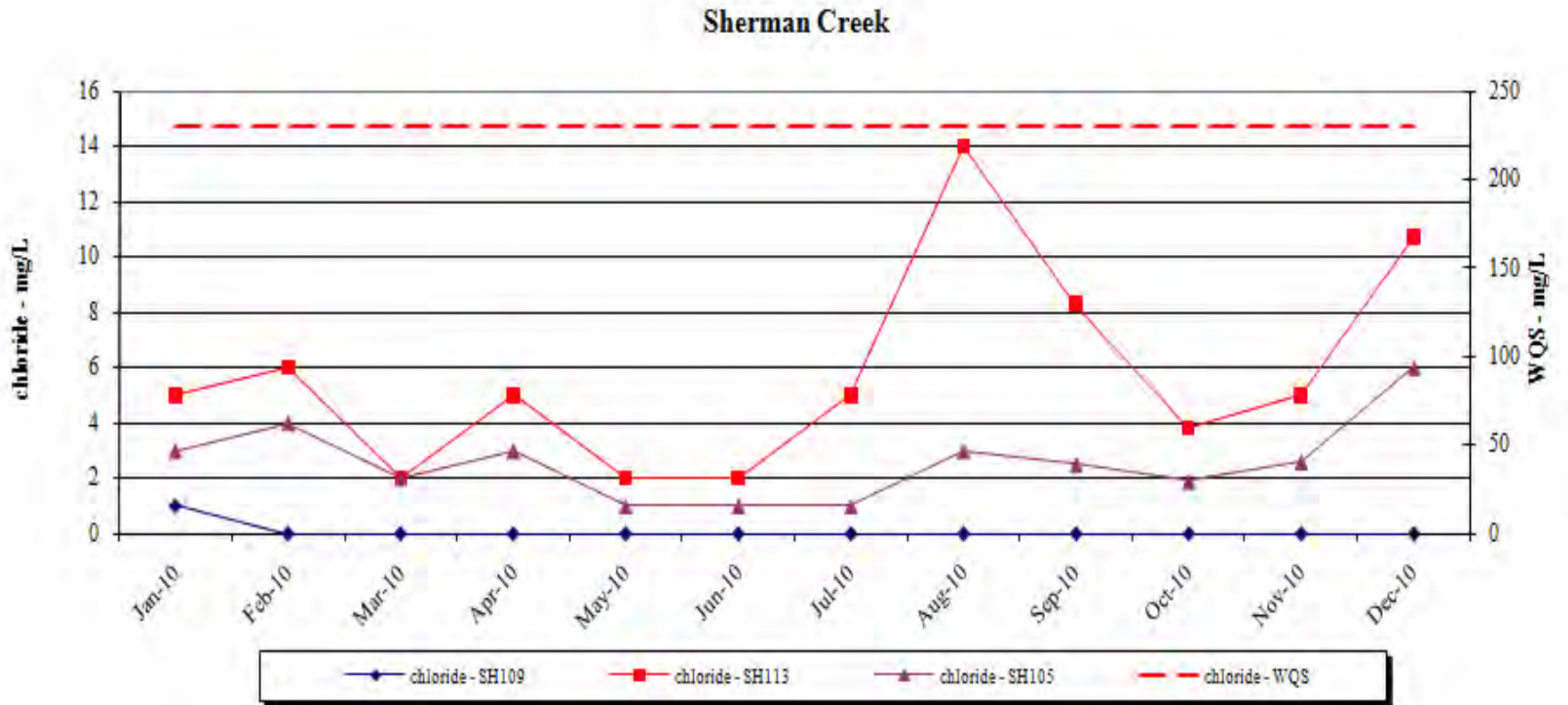


Figure 8b: Sherman Creek Monitoring Results 2010, Major Chemistry

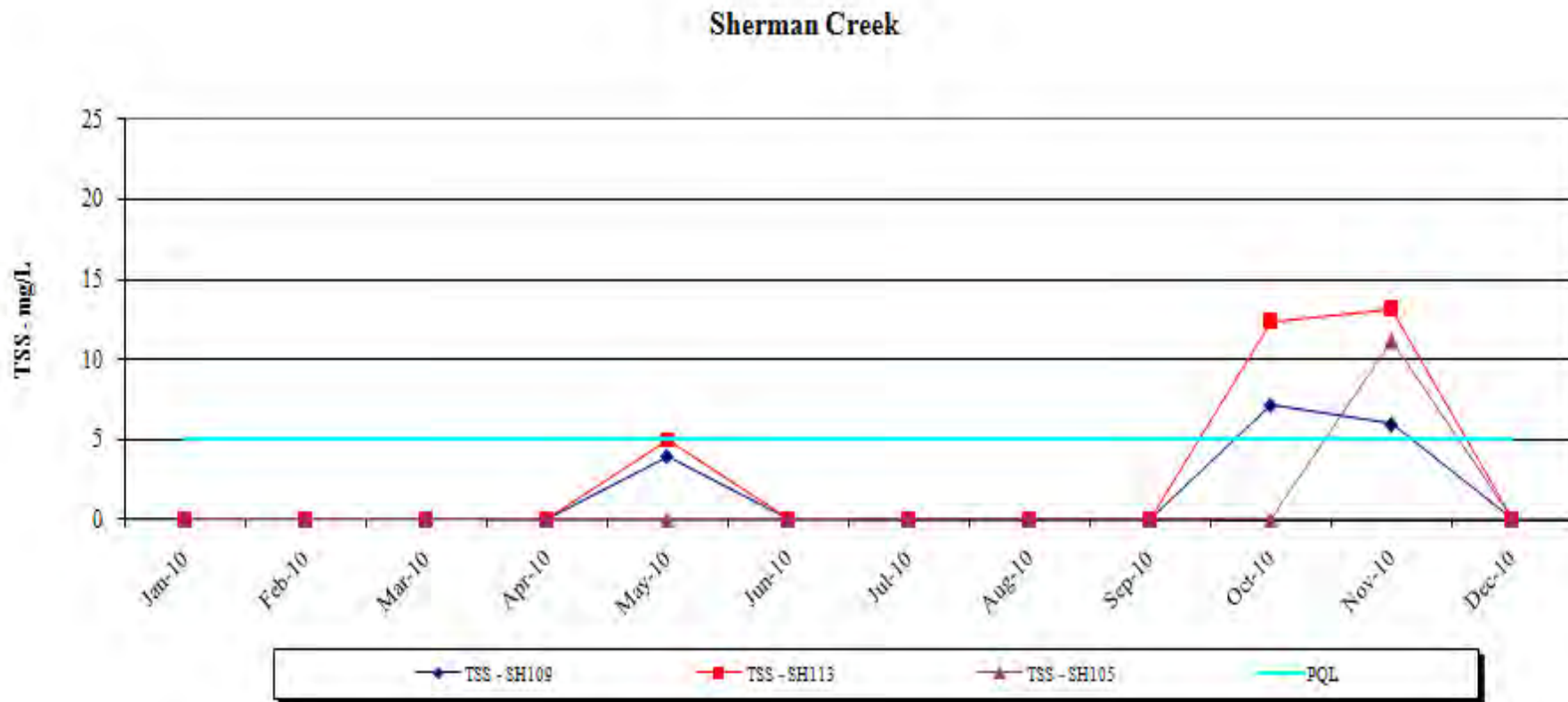


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

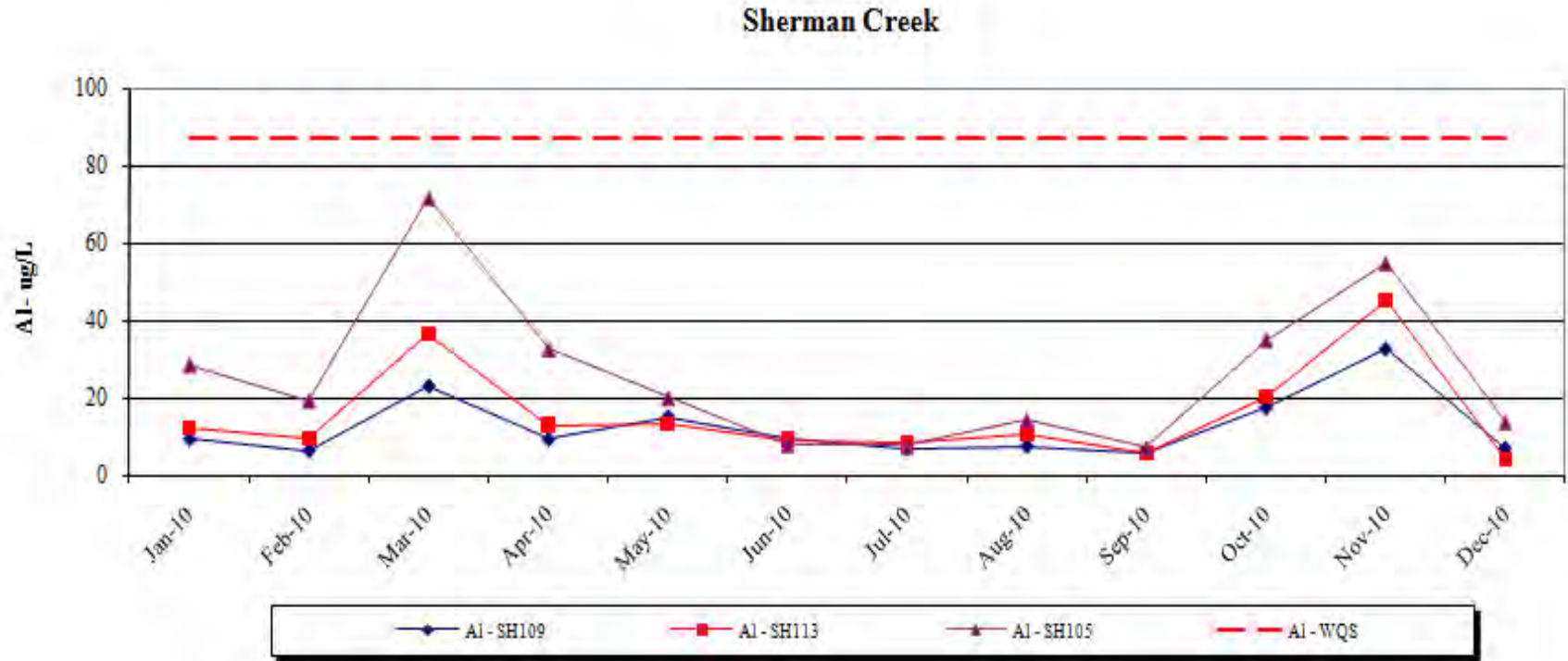


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

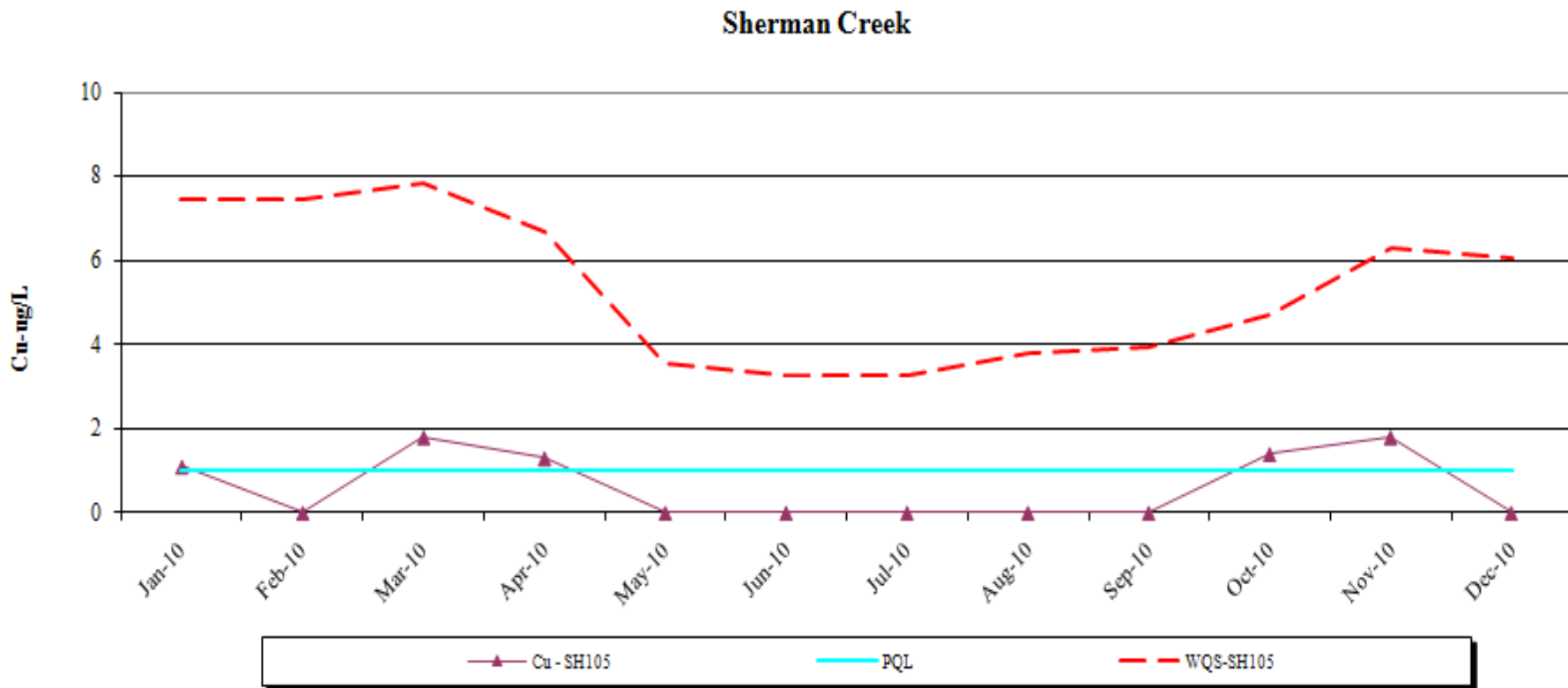


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

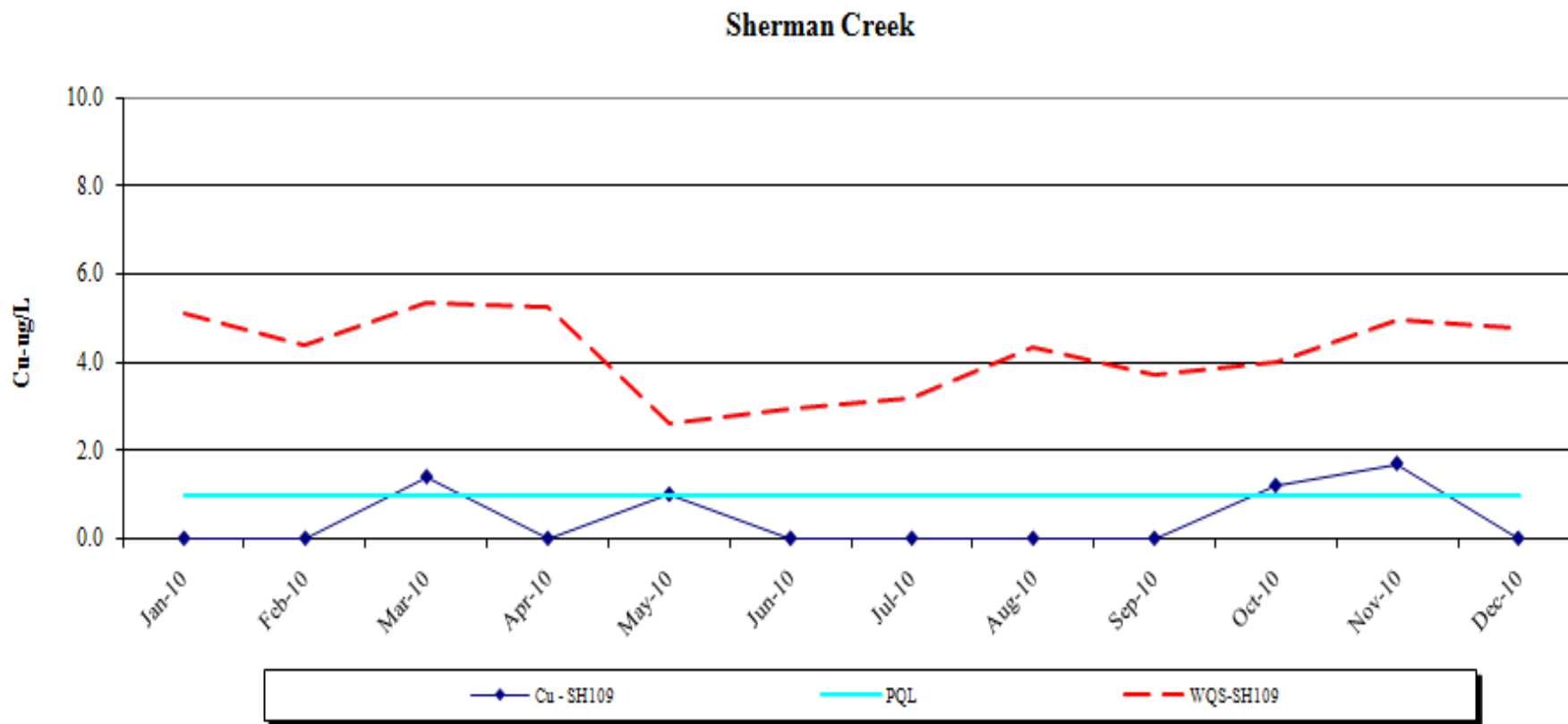


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

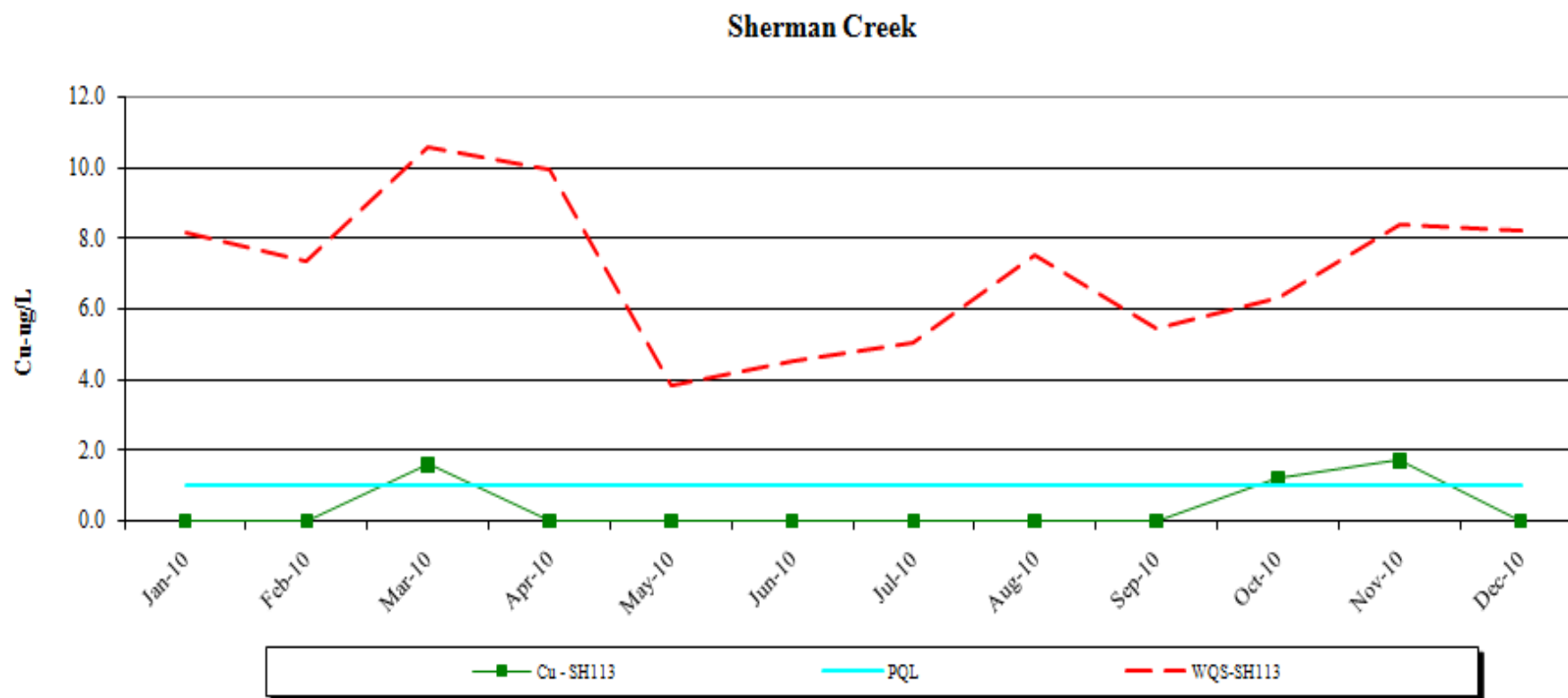


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

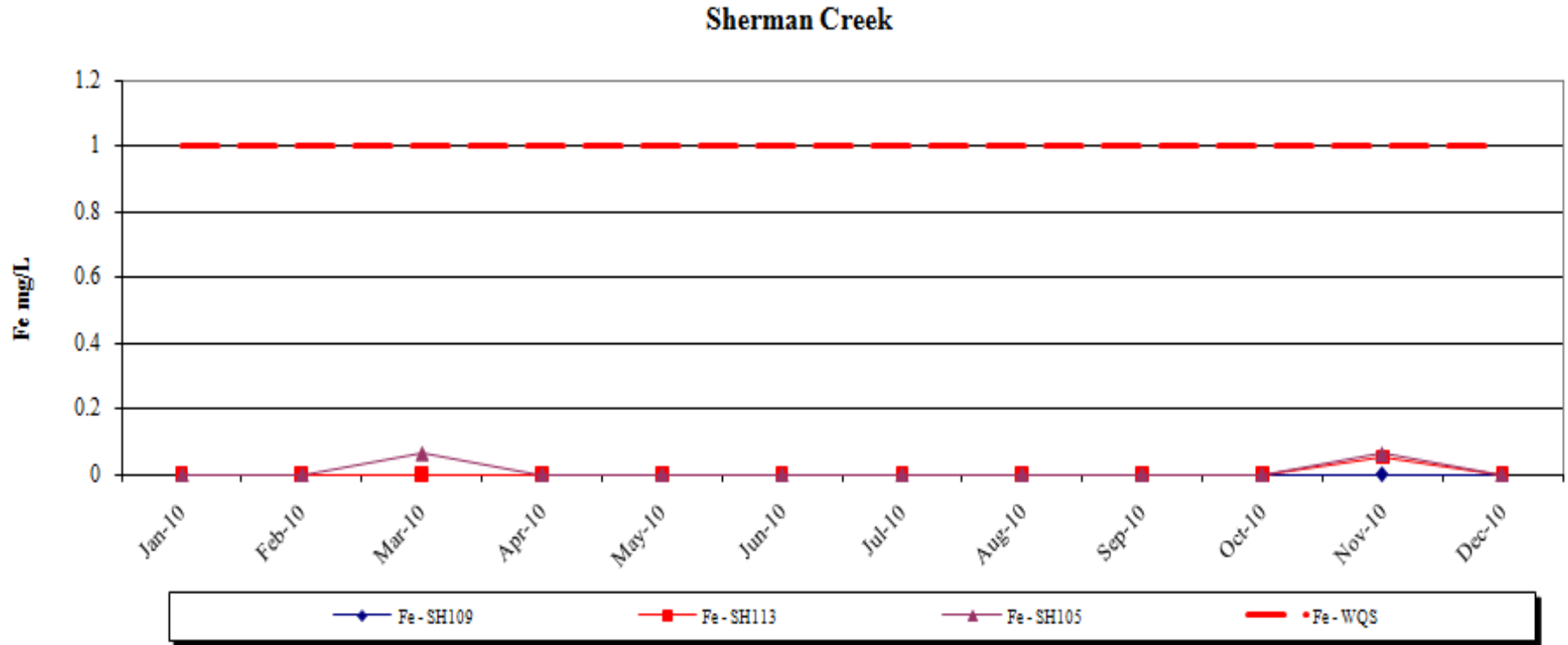


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

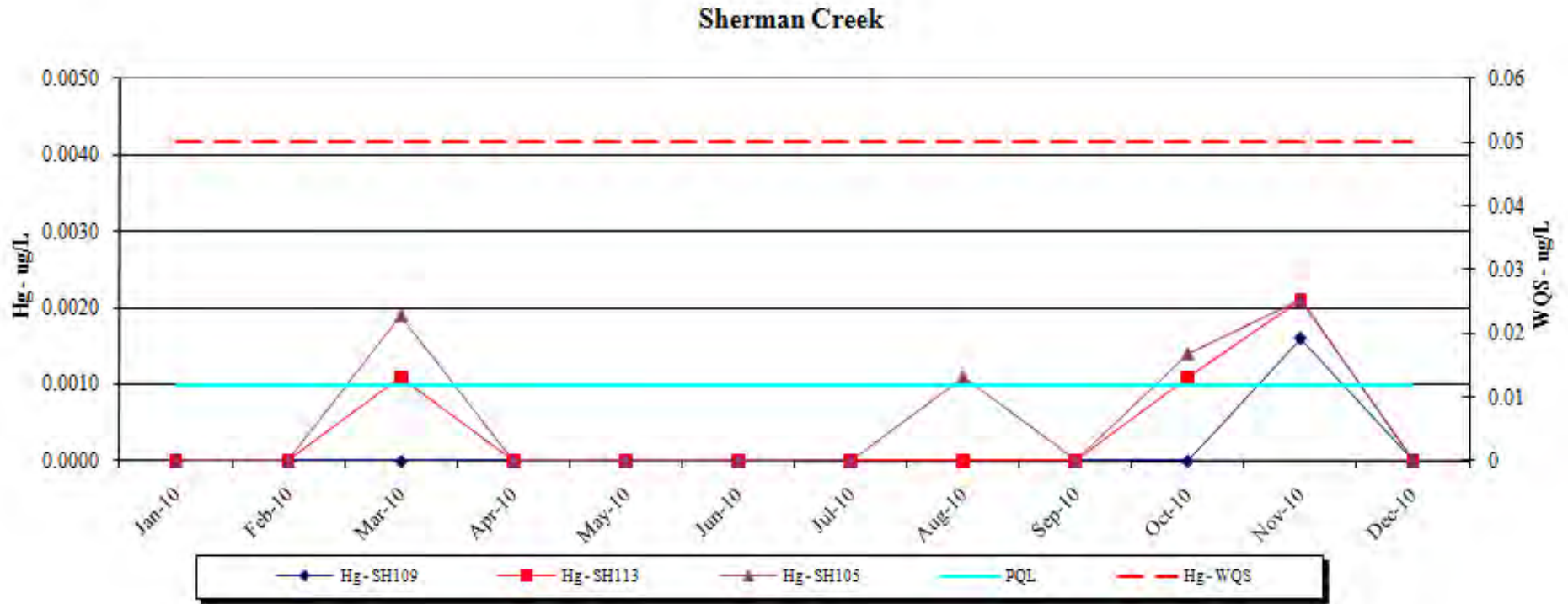


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

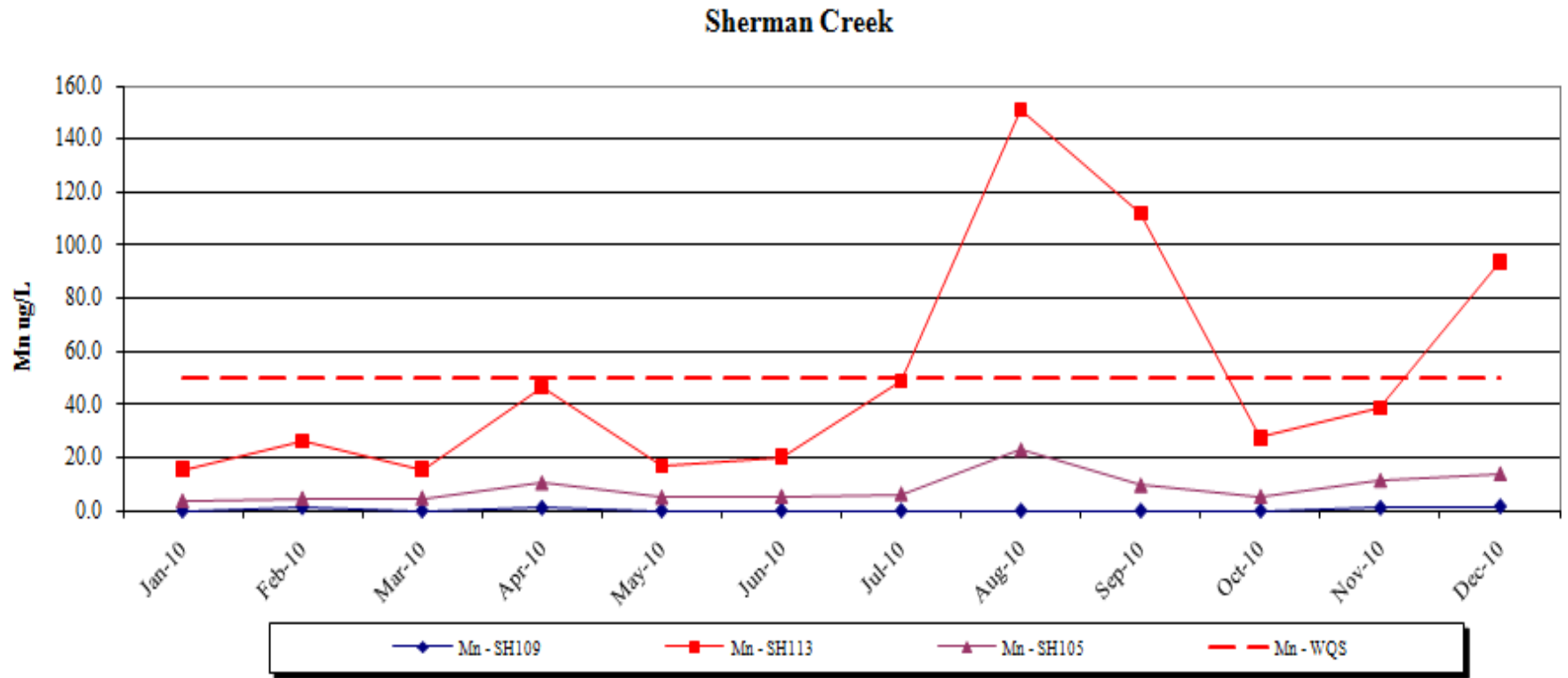


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

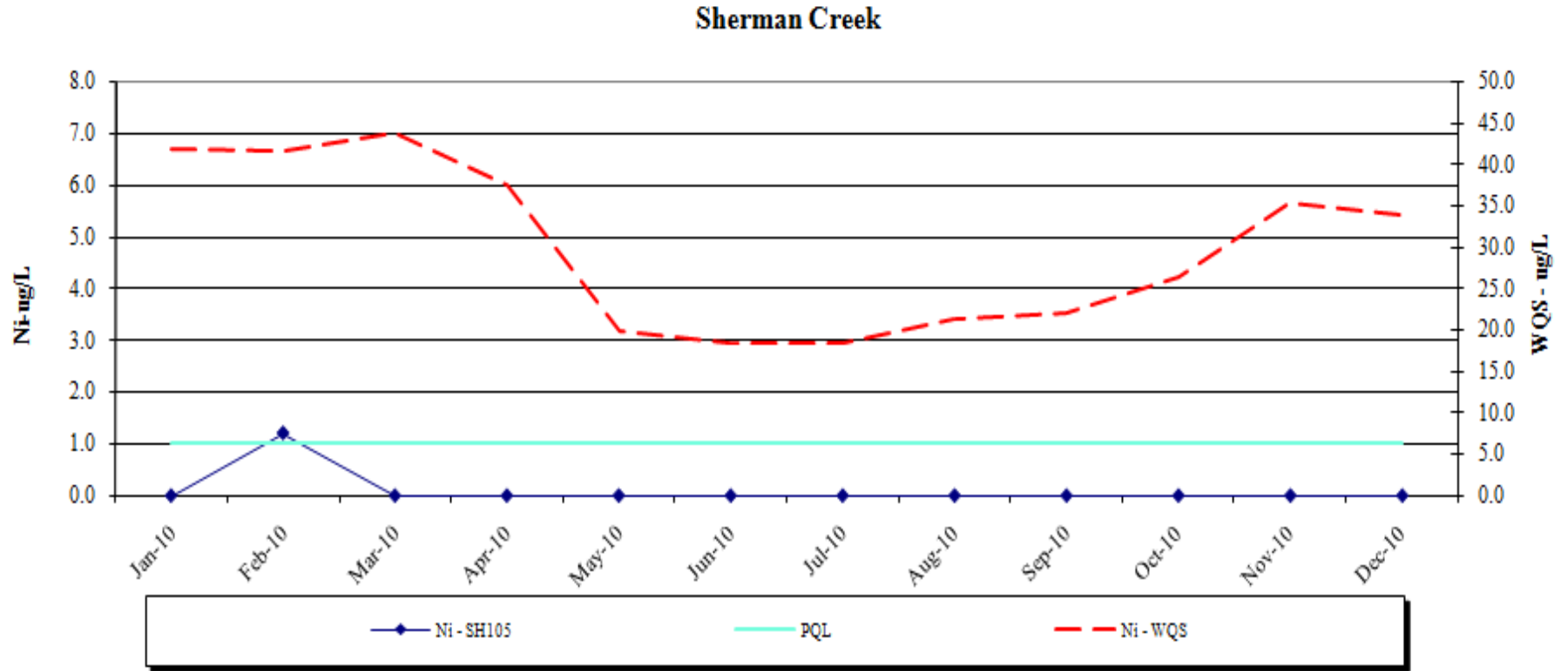


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

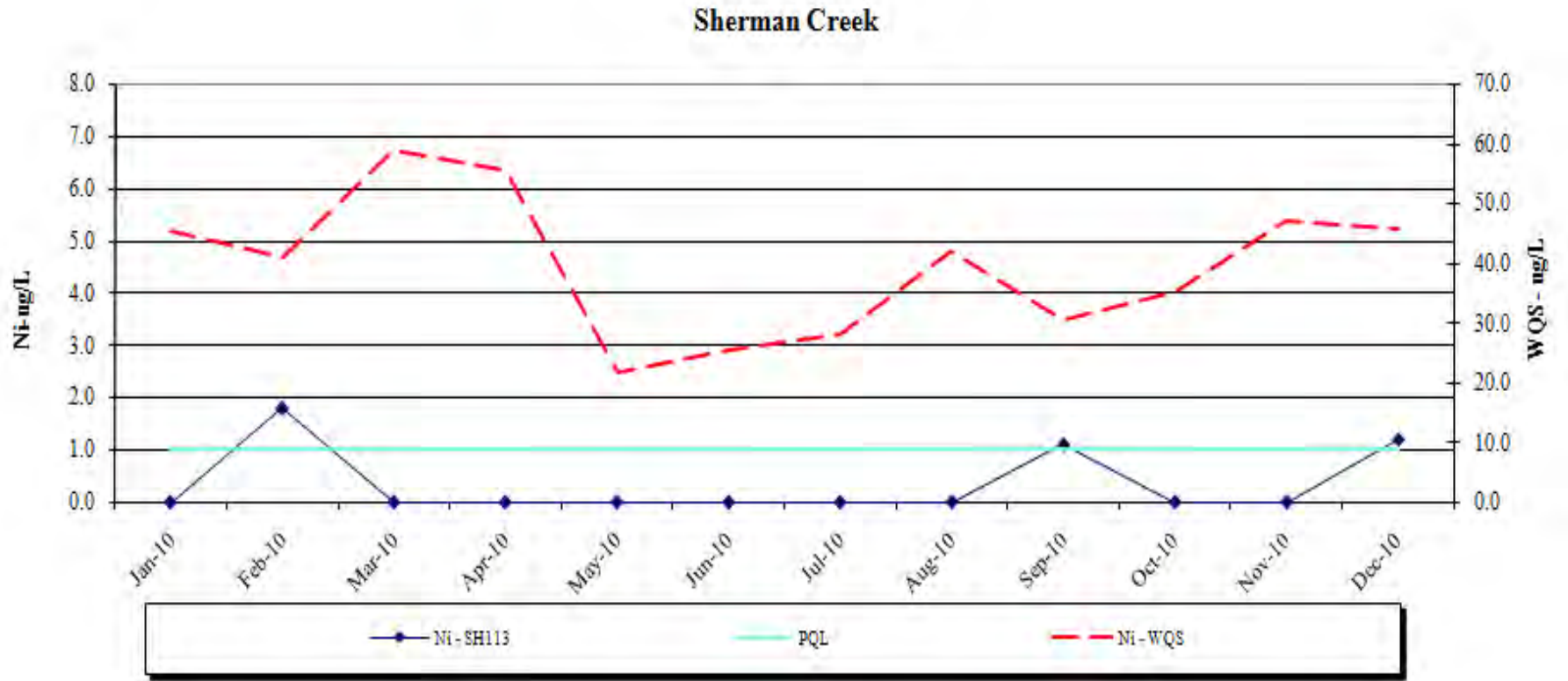


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

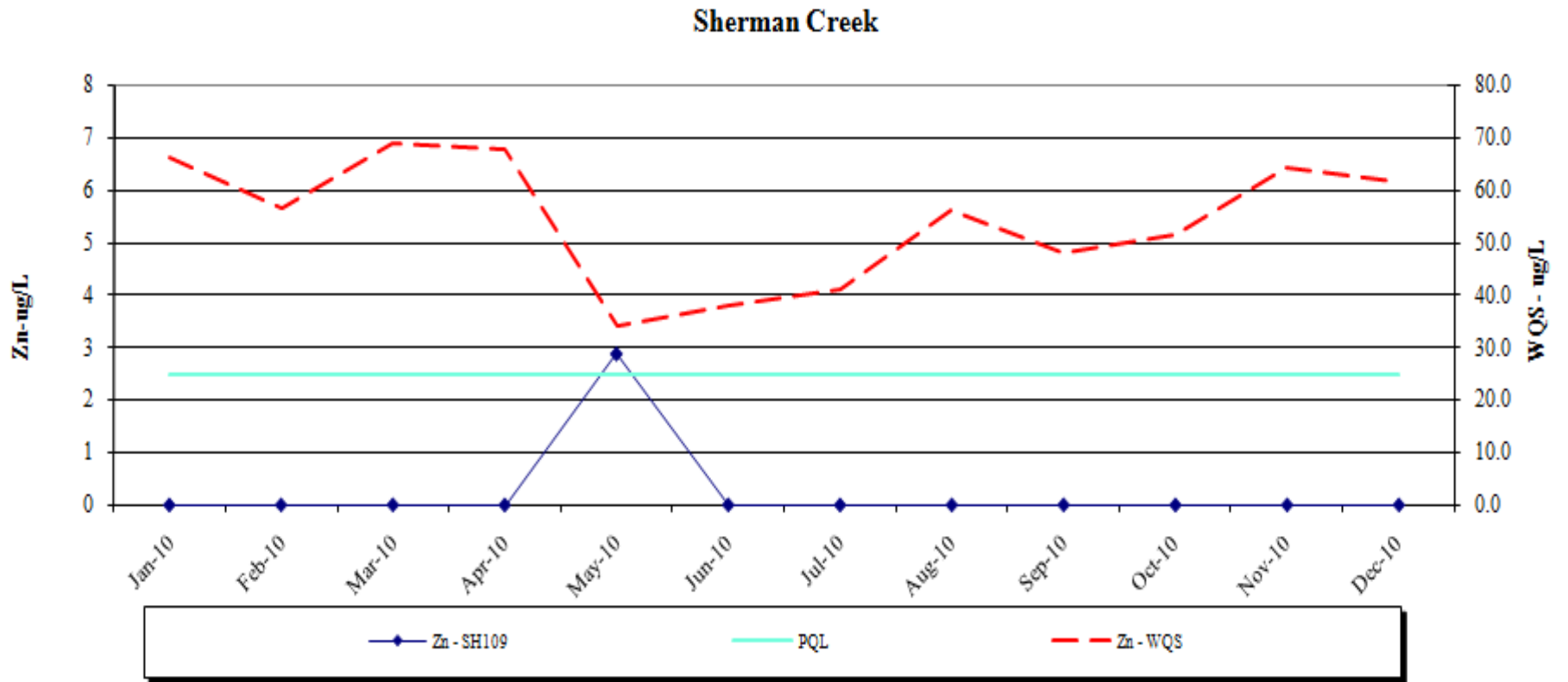


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

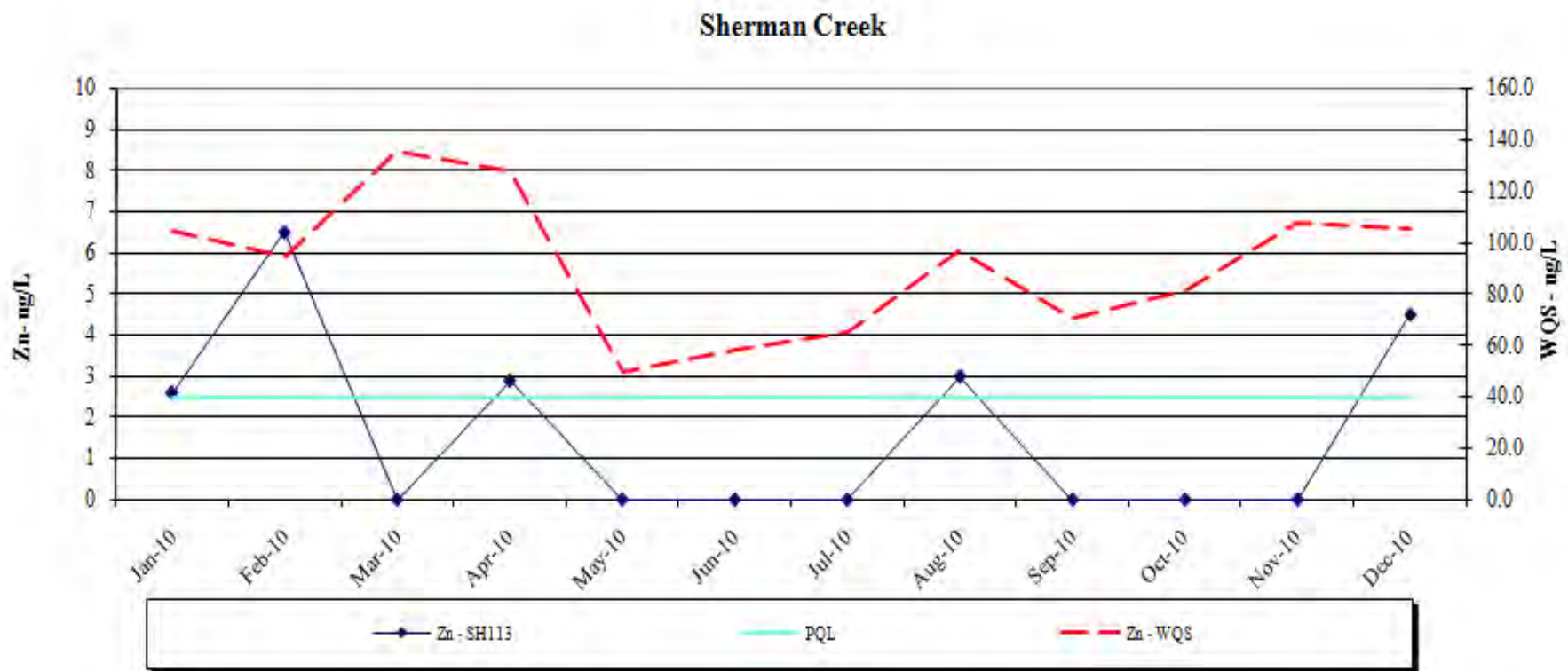


Figure 8c: Sherman Creek Monitoring Results 2010, Trace Chemistry

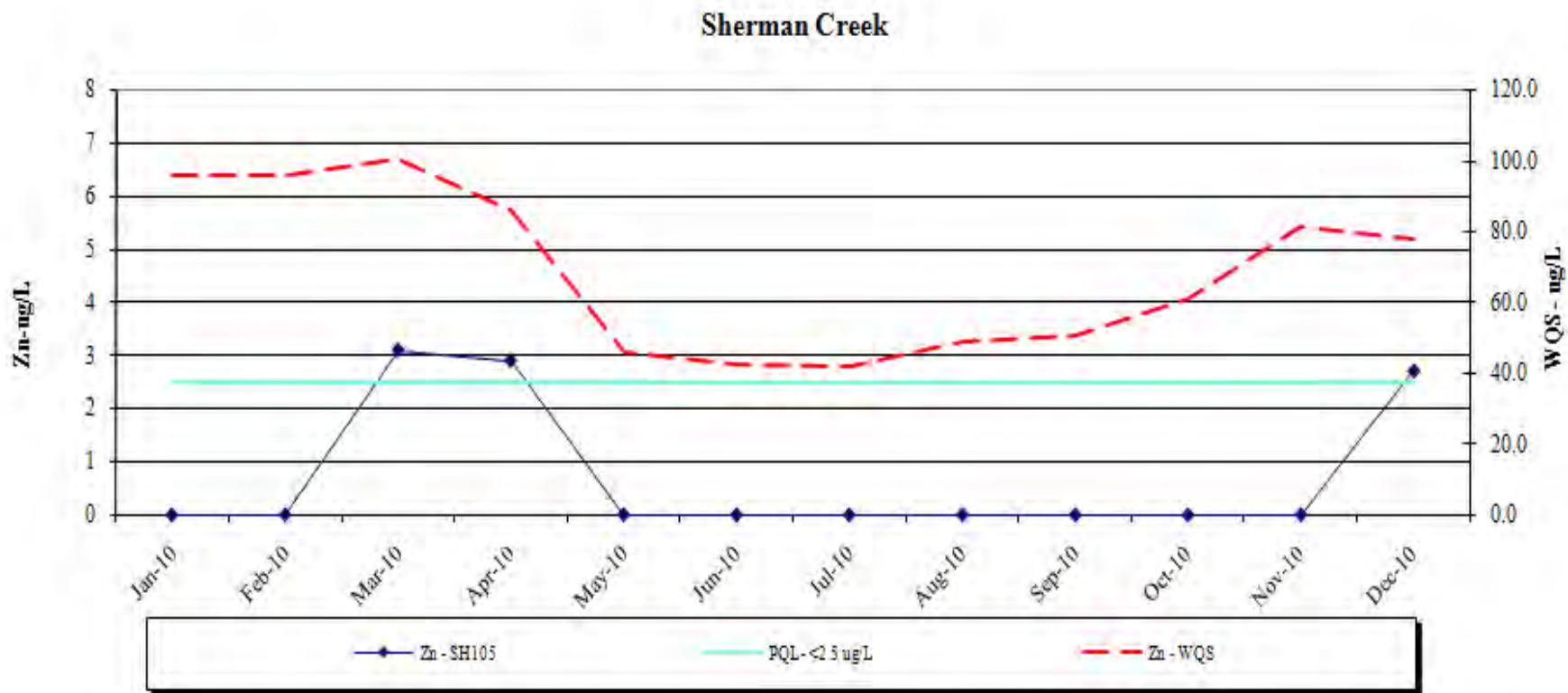


Figure 9a: Ophir Creek Monitoring Results 2010, Field Parameters

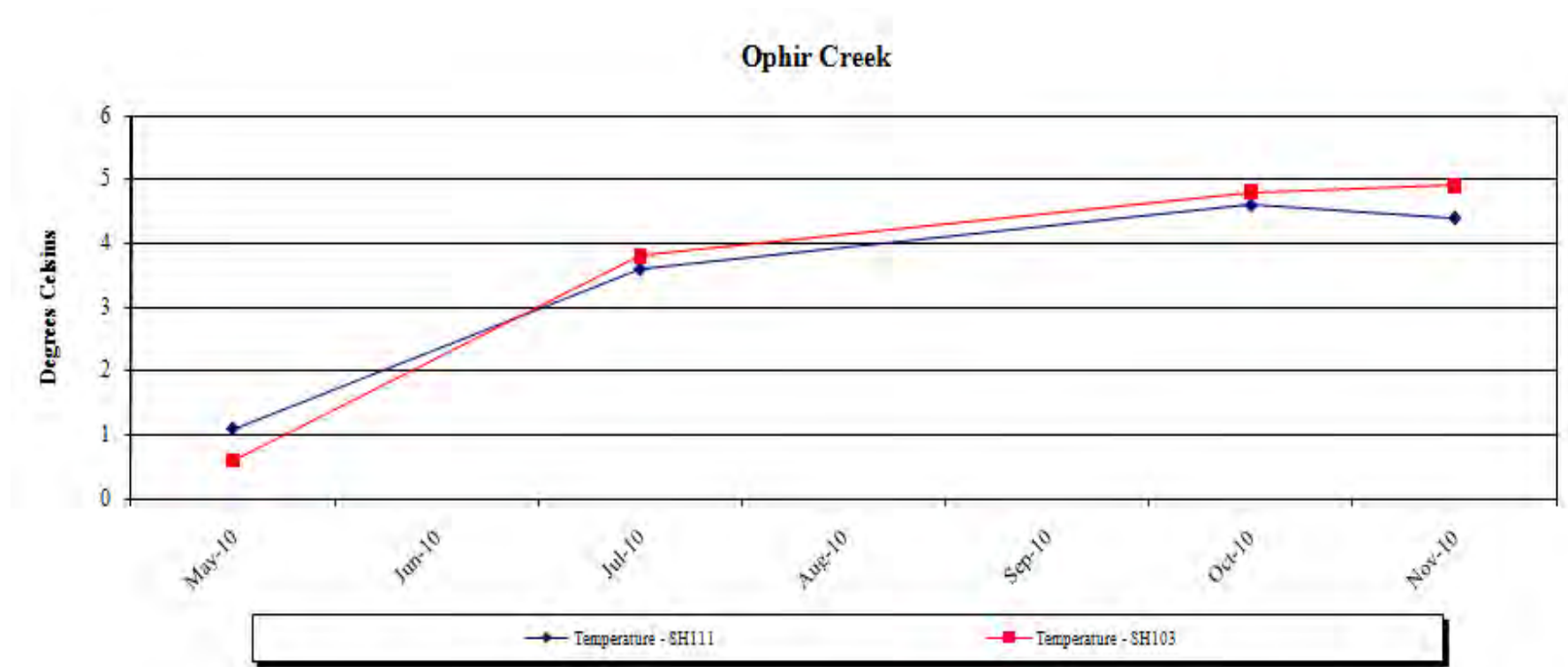


Figure 9a: Ophir Creek Monitoring Results 2010, Field Parameters

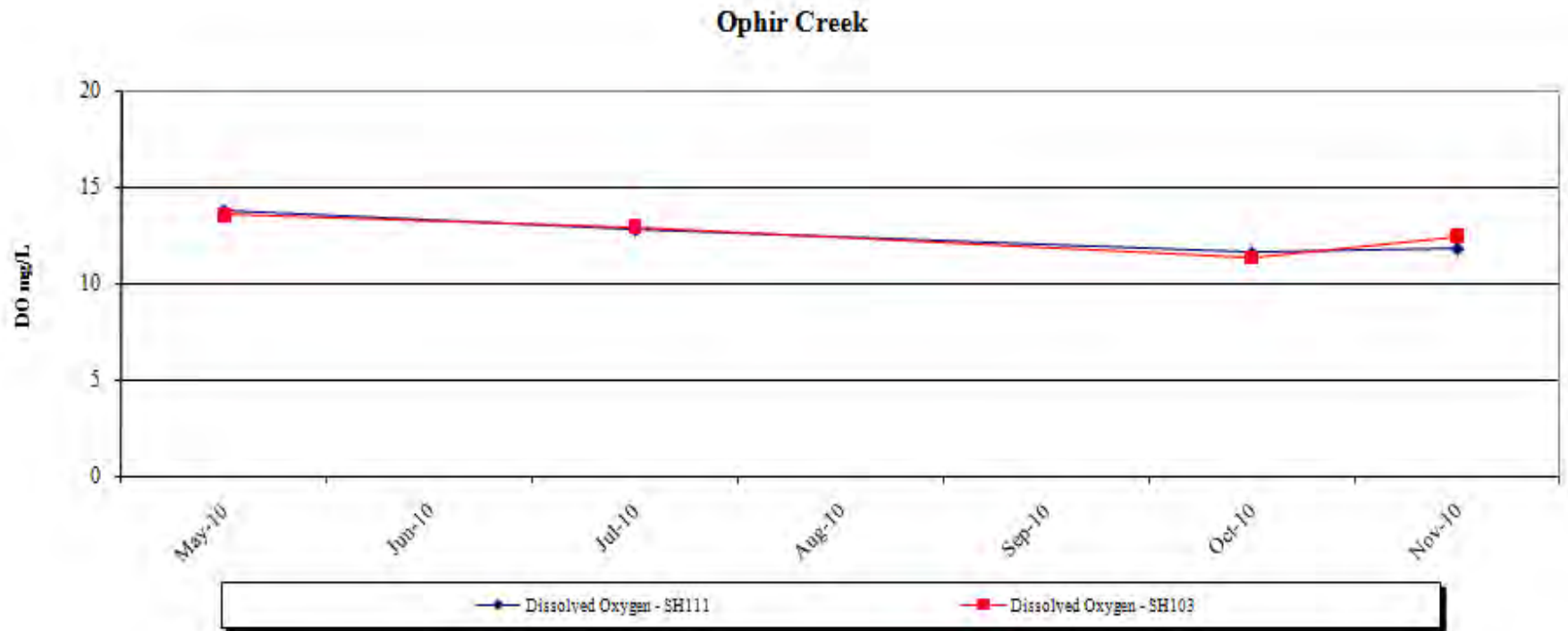


Figure 9a: Ophir Creek Monitoring Results 2010, Field Parameters

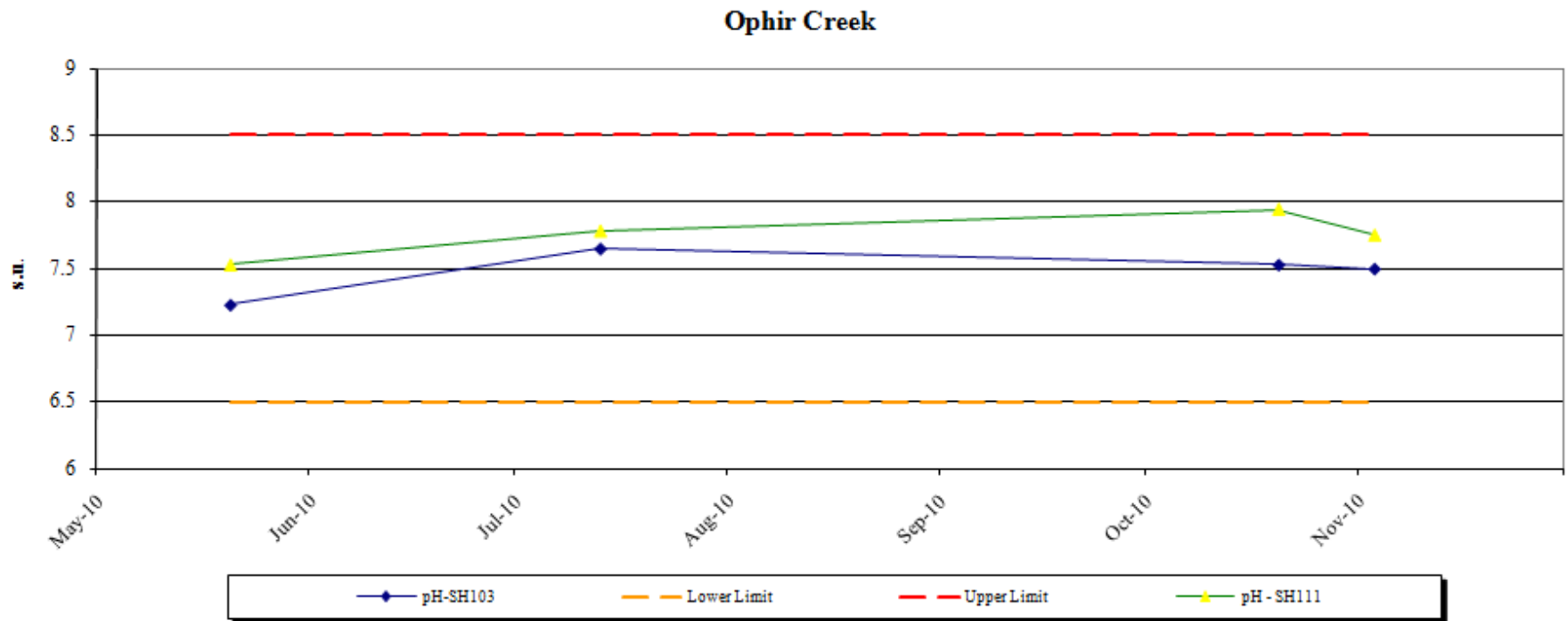


Figure 9a: Ophir Creek Monitoring Results 2010, Field Parameters

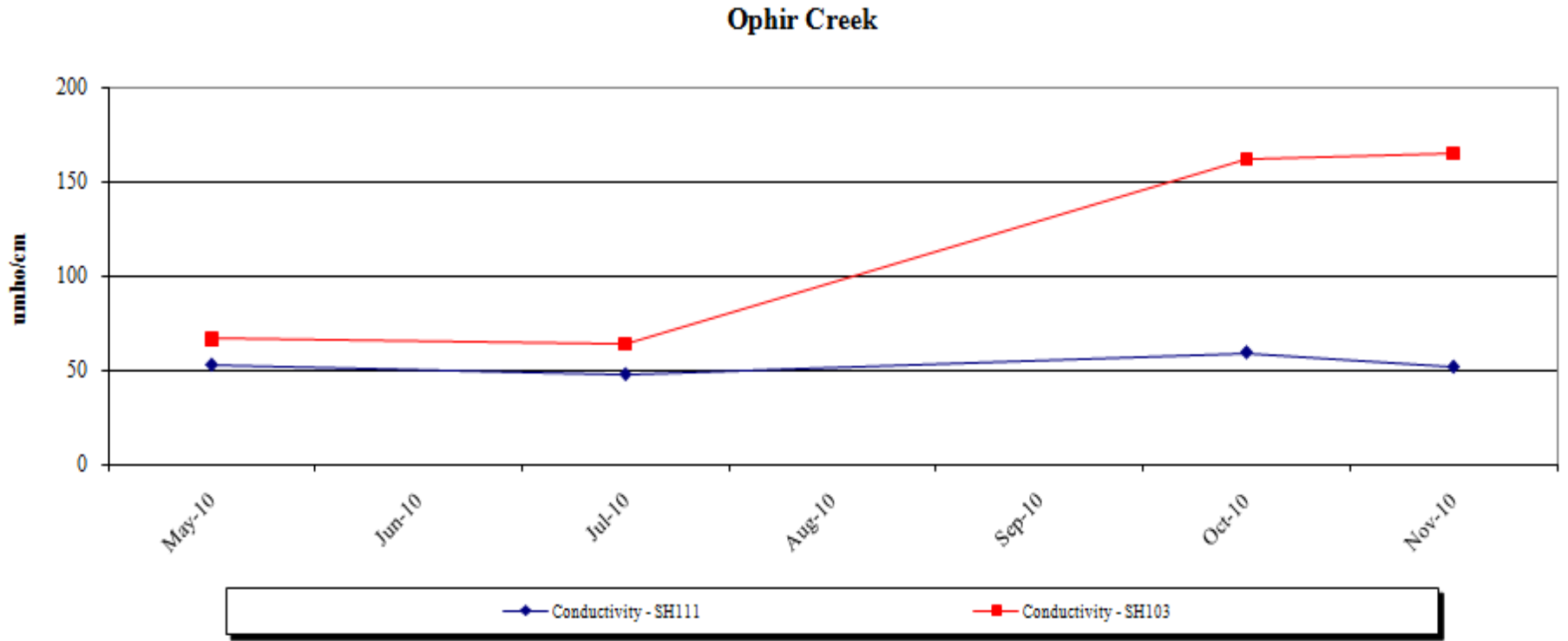


Figure 9b: Ophir Creek Monitoring Results 2010, Major Chemistry

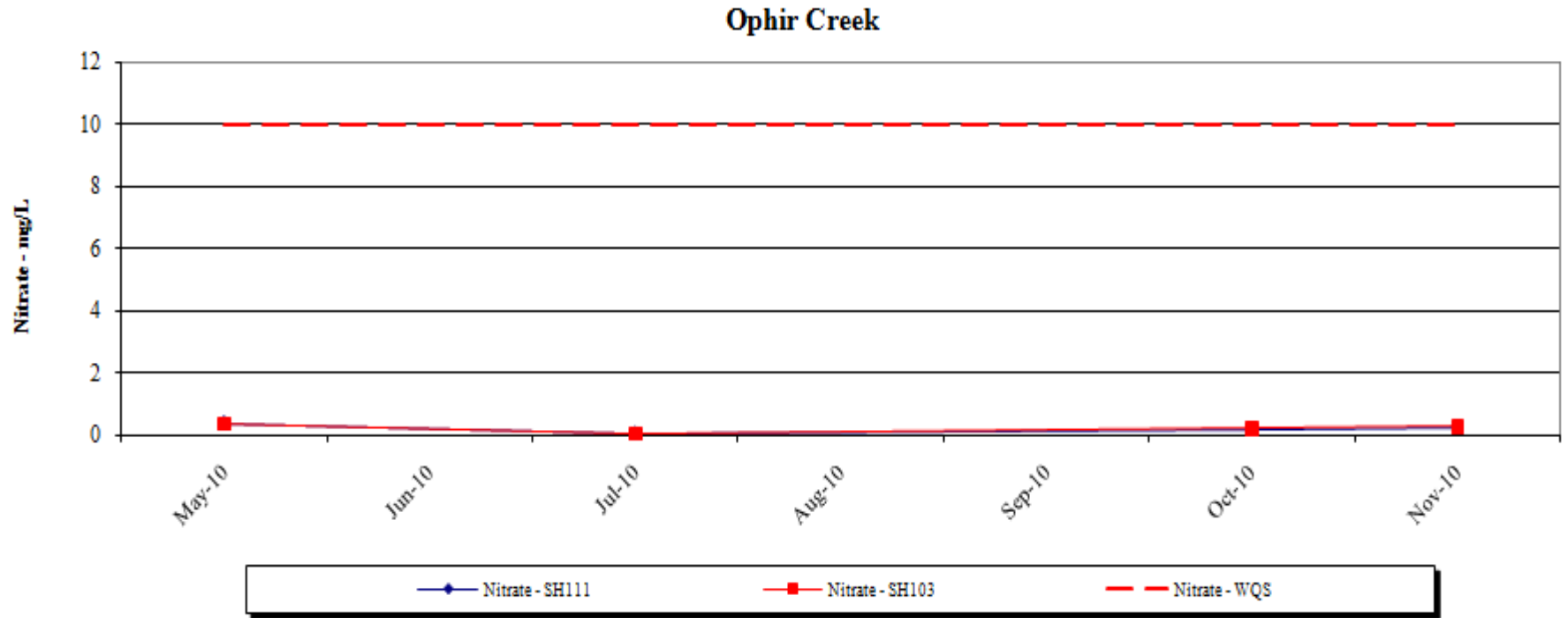


Figure 9b: Ophir Creek Monitoring Results 2010, Major Chemistry

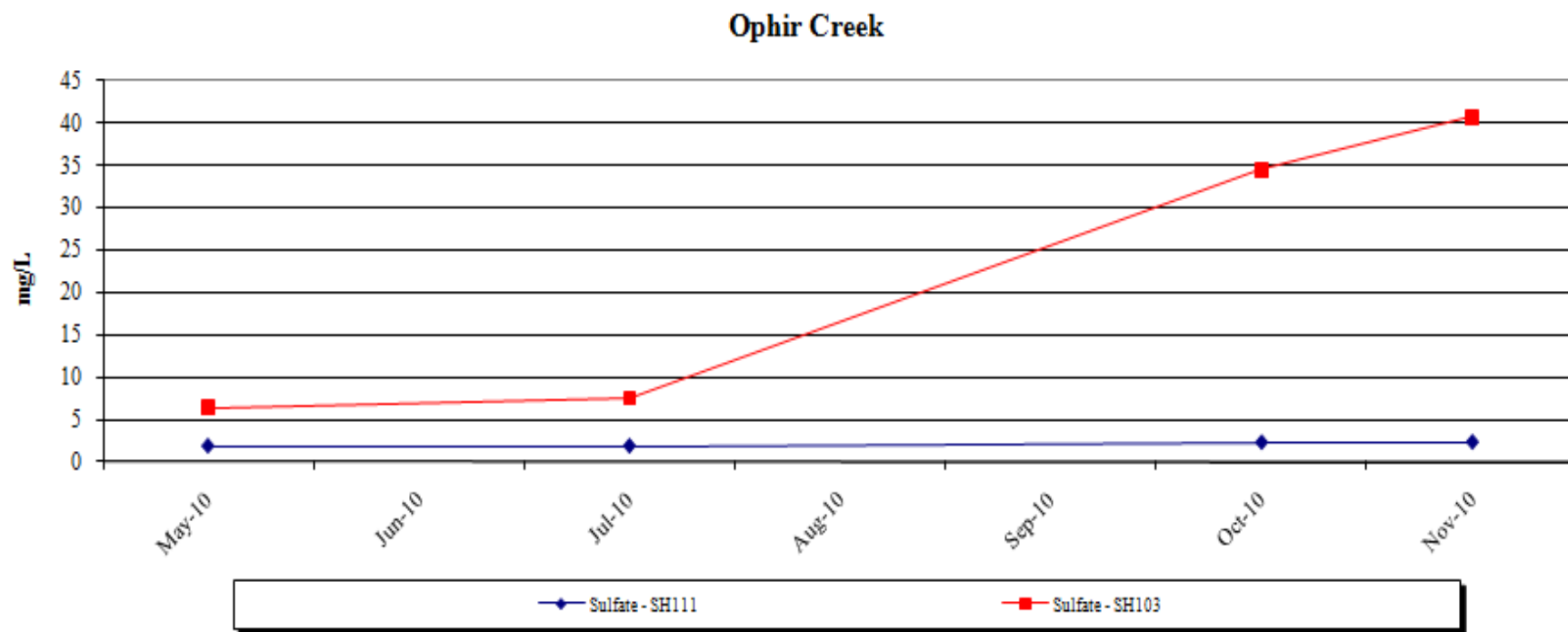


Figure 9b: Ophir Creek Monitoring Results 2010, Major Chemistry

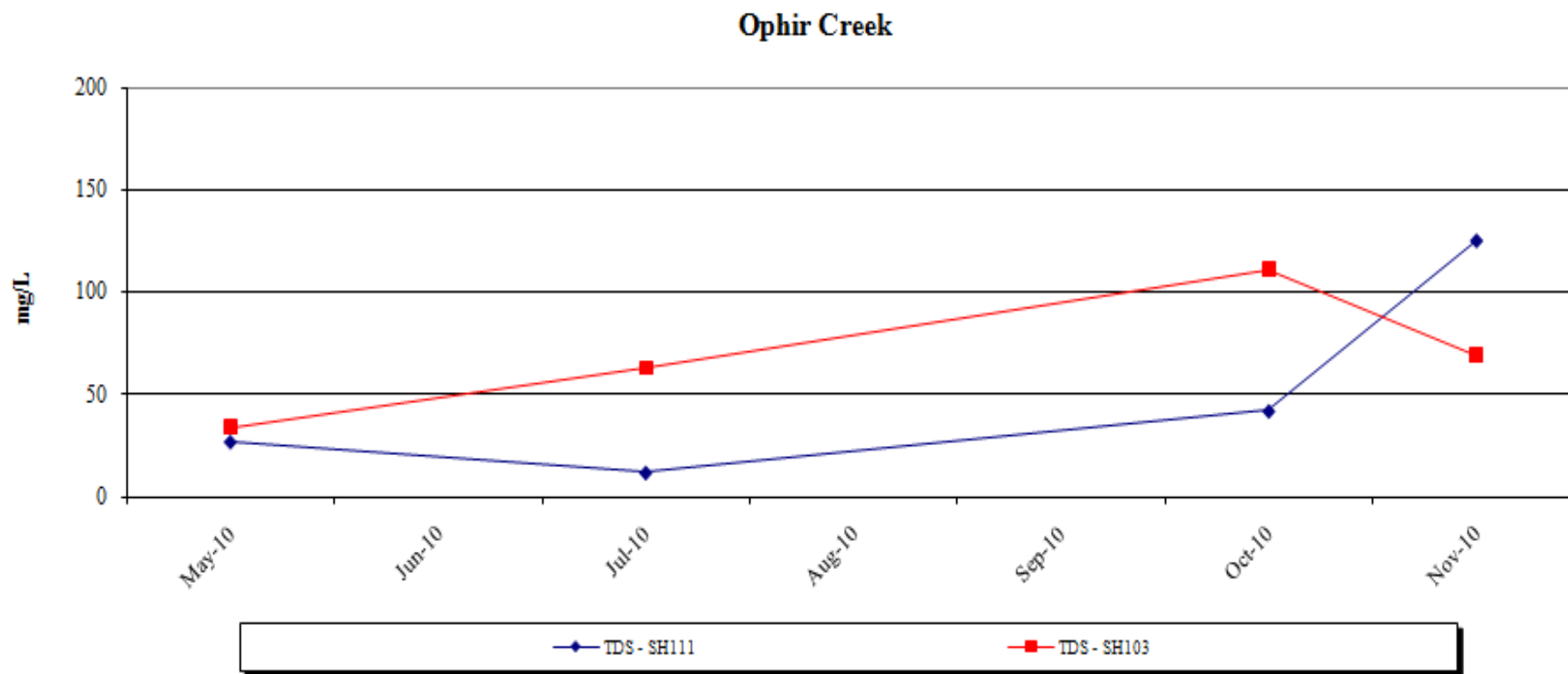


Figure 9b: Ophir Creek Monitoring Results 2010, Major Chemistry

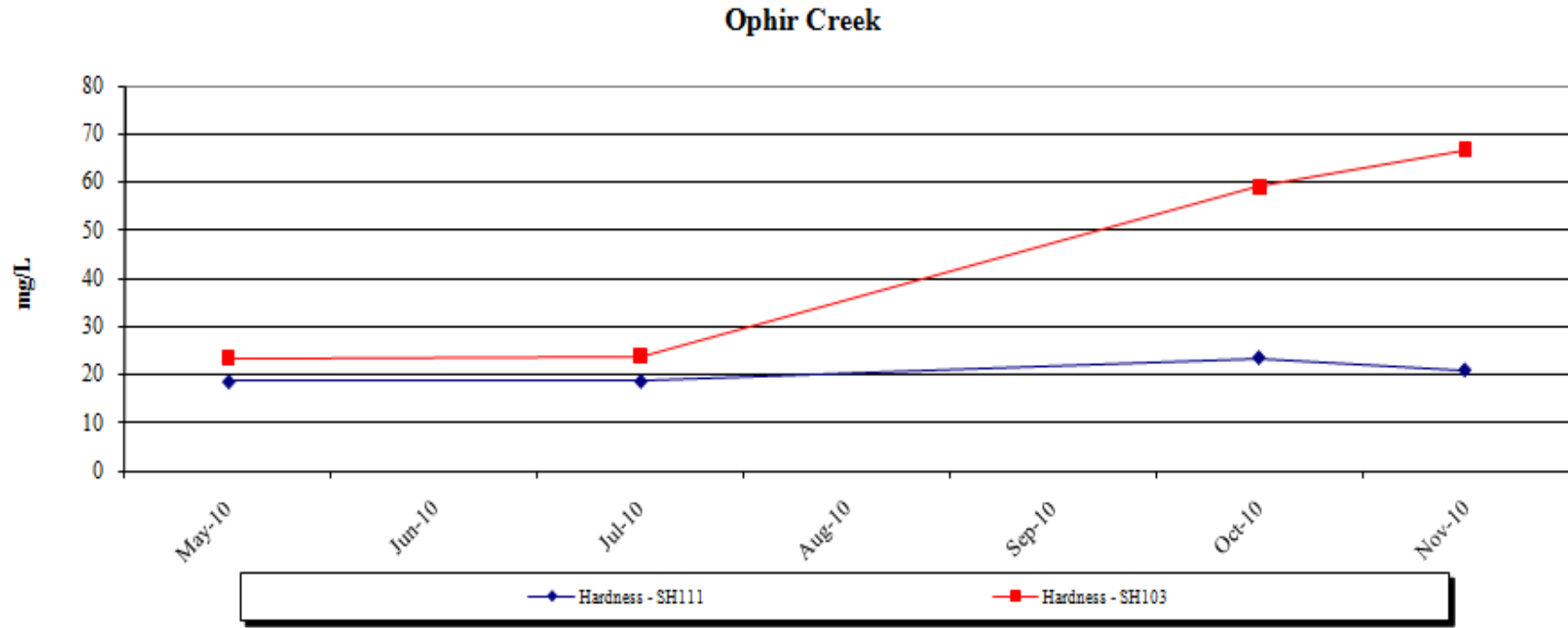


Figure 9b: Ophir Creek Monitoring Results 2010, Major Chemistry

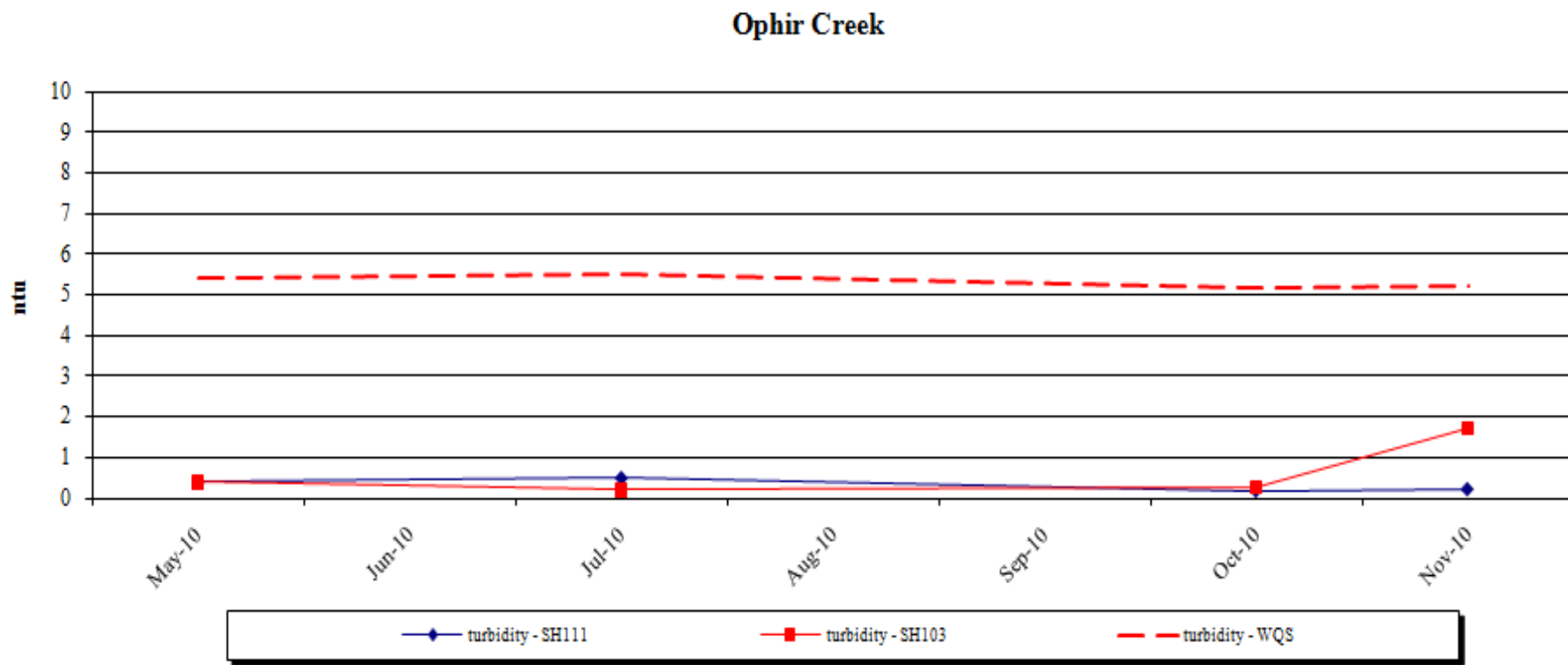


Figure 9b: Ophir Creek Monitoring Results 2010, Major Chemistry

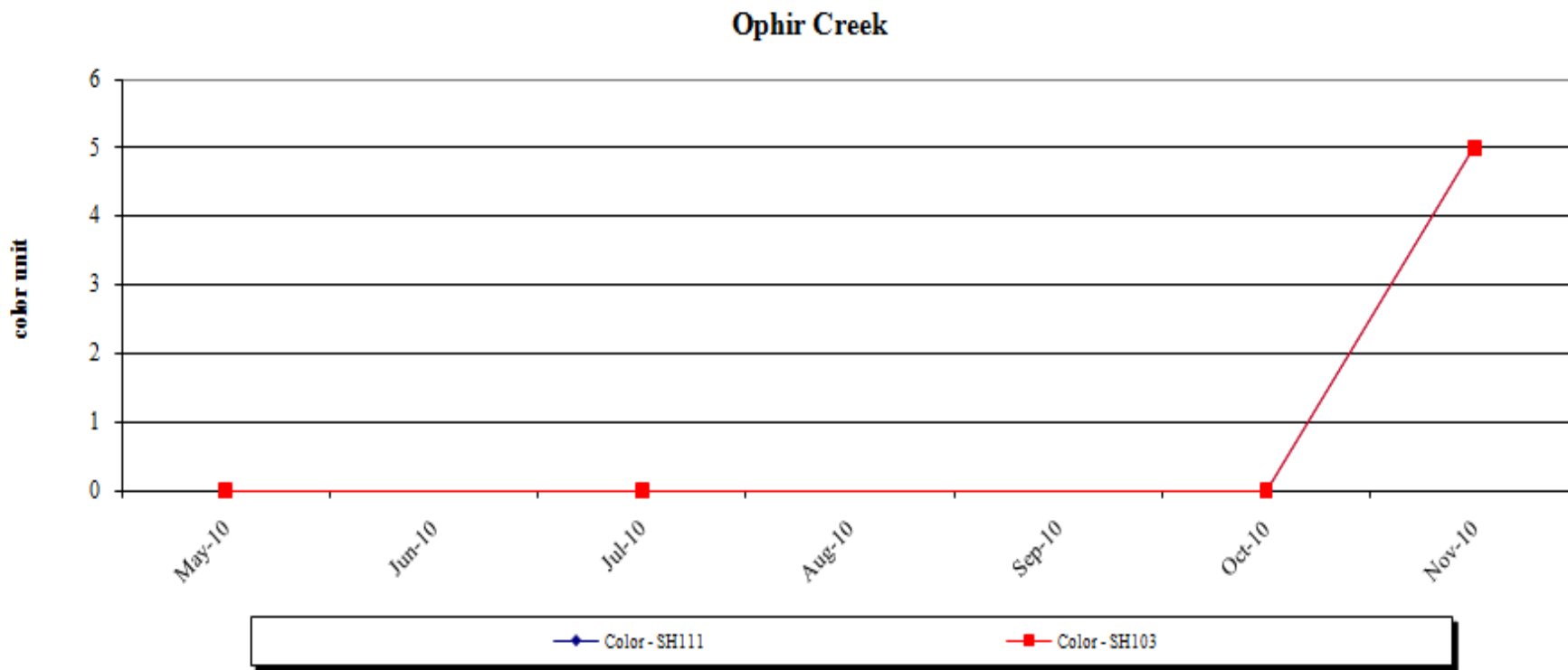


Figure 9c: Ophir Creek Monitoring Results 2010, Trace Chemistry

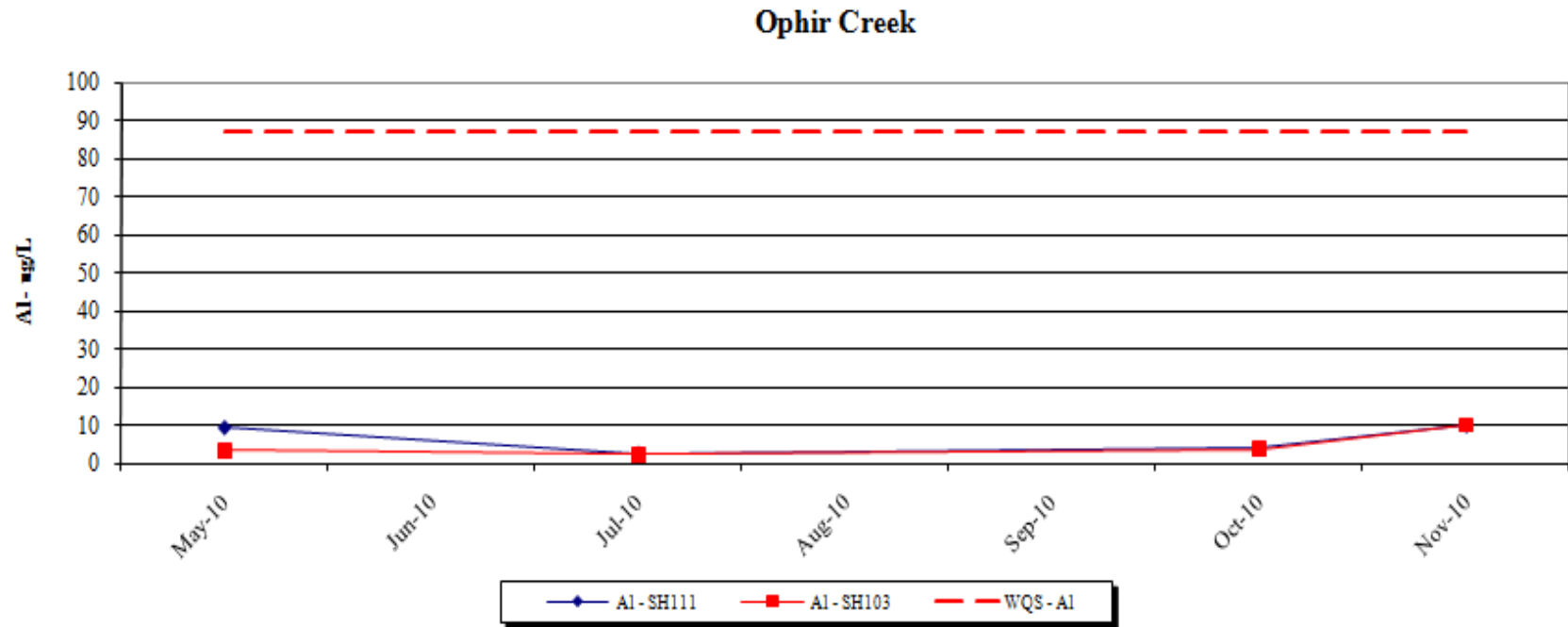


Figure 9c: Ophir Creek Monitoring Results 2010, Trace Chemistry

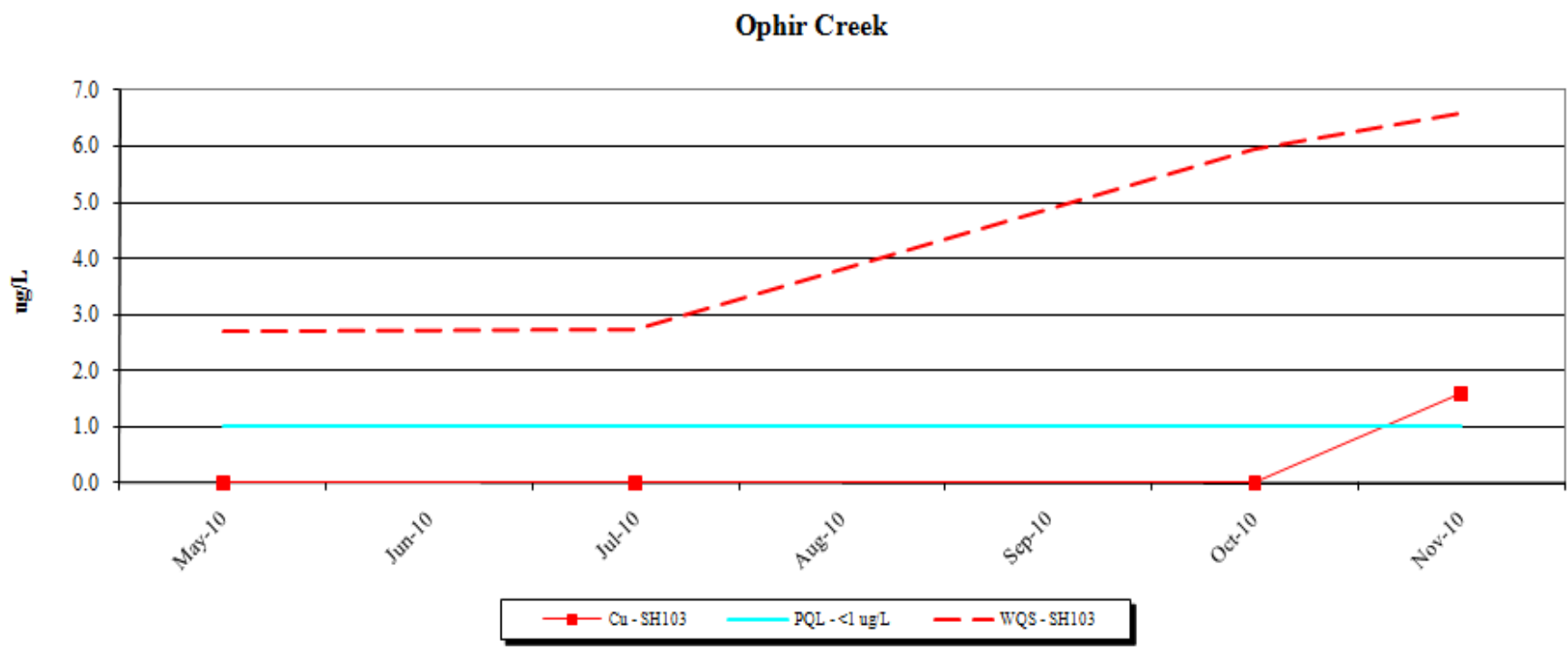


Figure 9c: Ophir Creek Monitoring Results 2010, Trace Chemistry

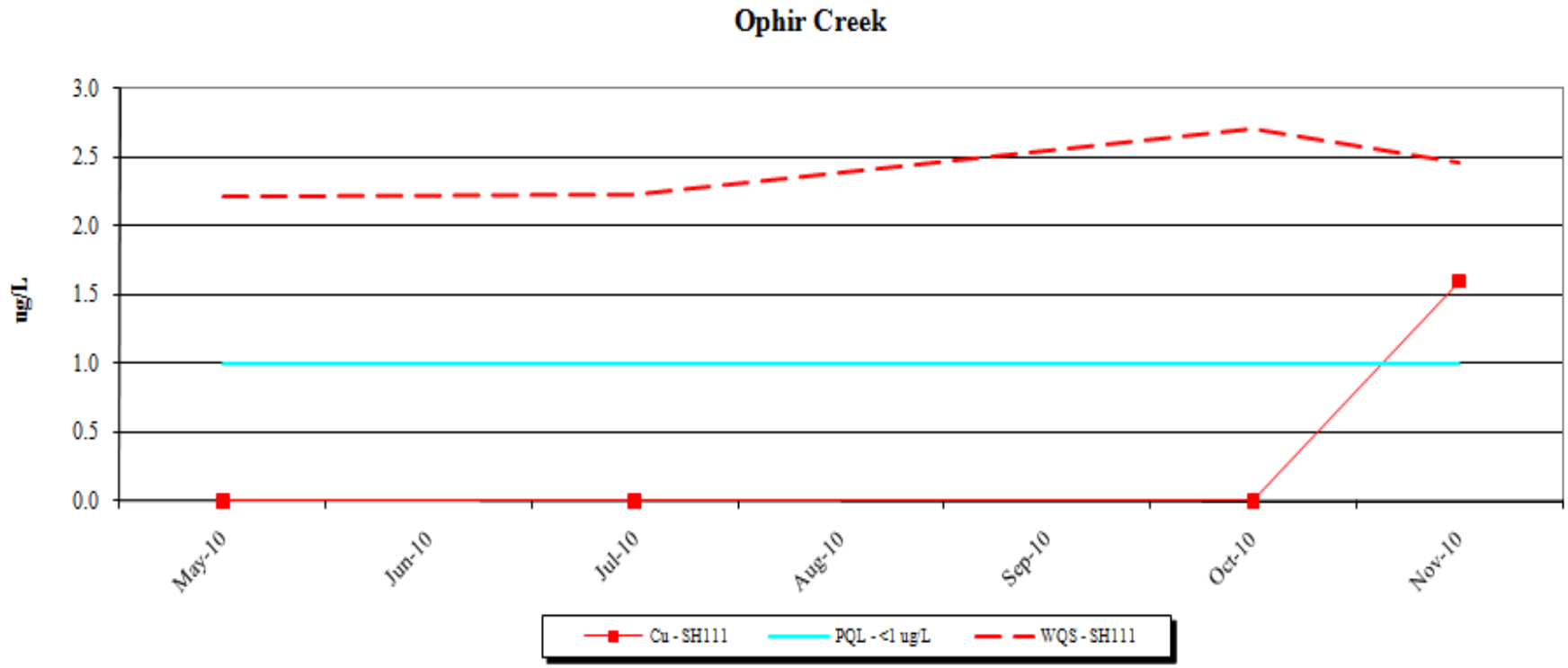


Figure 9c: Ophir Creek Monitoring Results 2010, Trace Chemistry

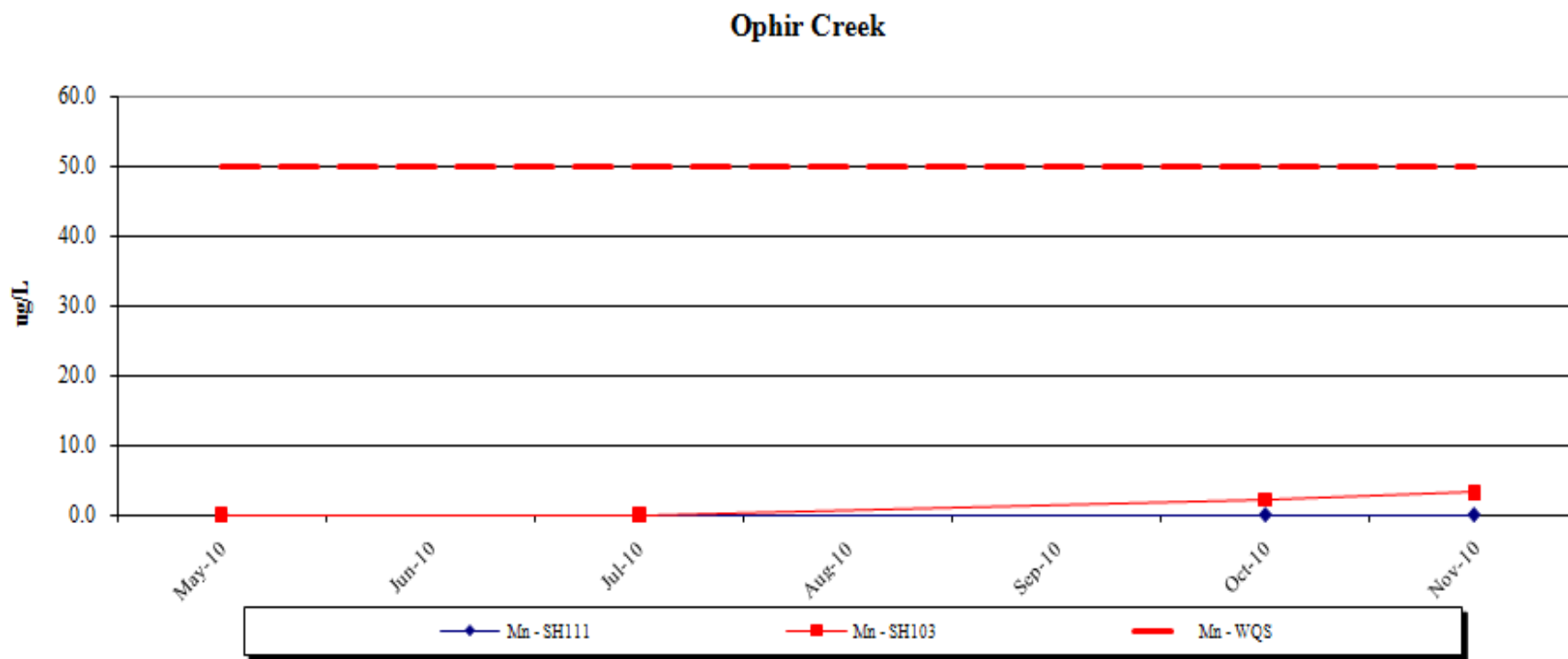


Figure 9c: Ophir Creek Monitoring Results 2010, Trace Chemistry

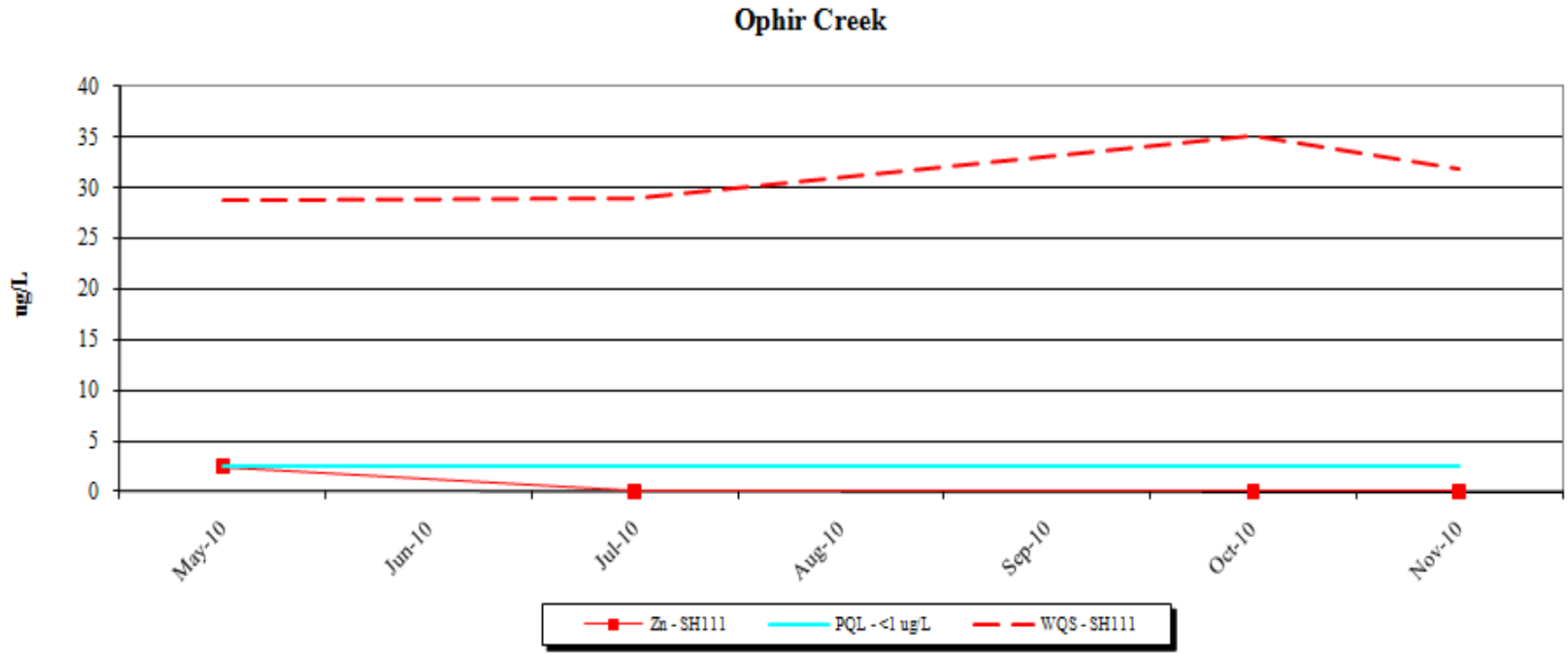


Figure 10a: Outfall 001 Effluent Monitoring Results 2010, Field Parameters

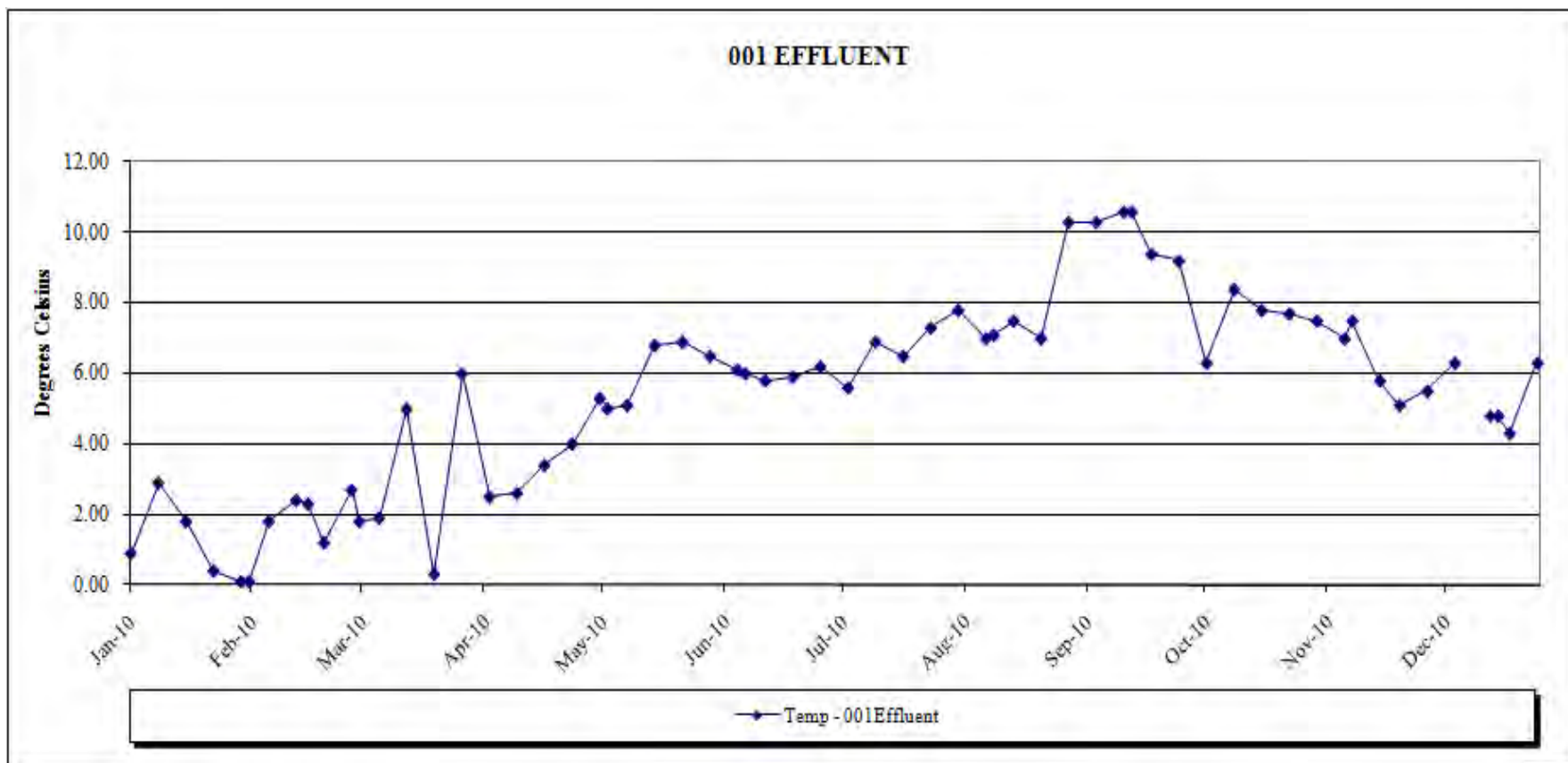


Figure 10b: Outfall 001 Effluent Monitoring Results 2010, Major Chemistry

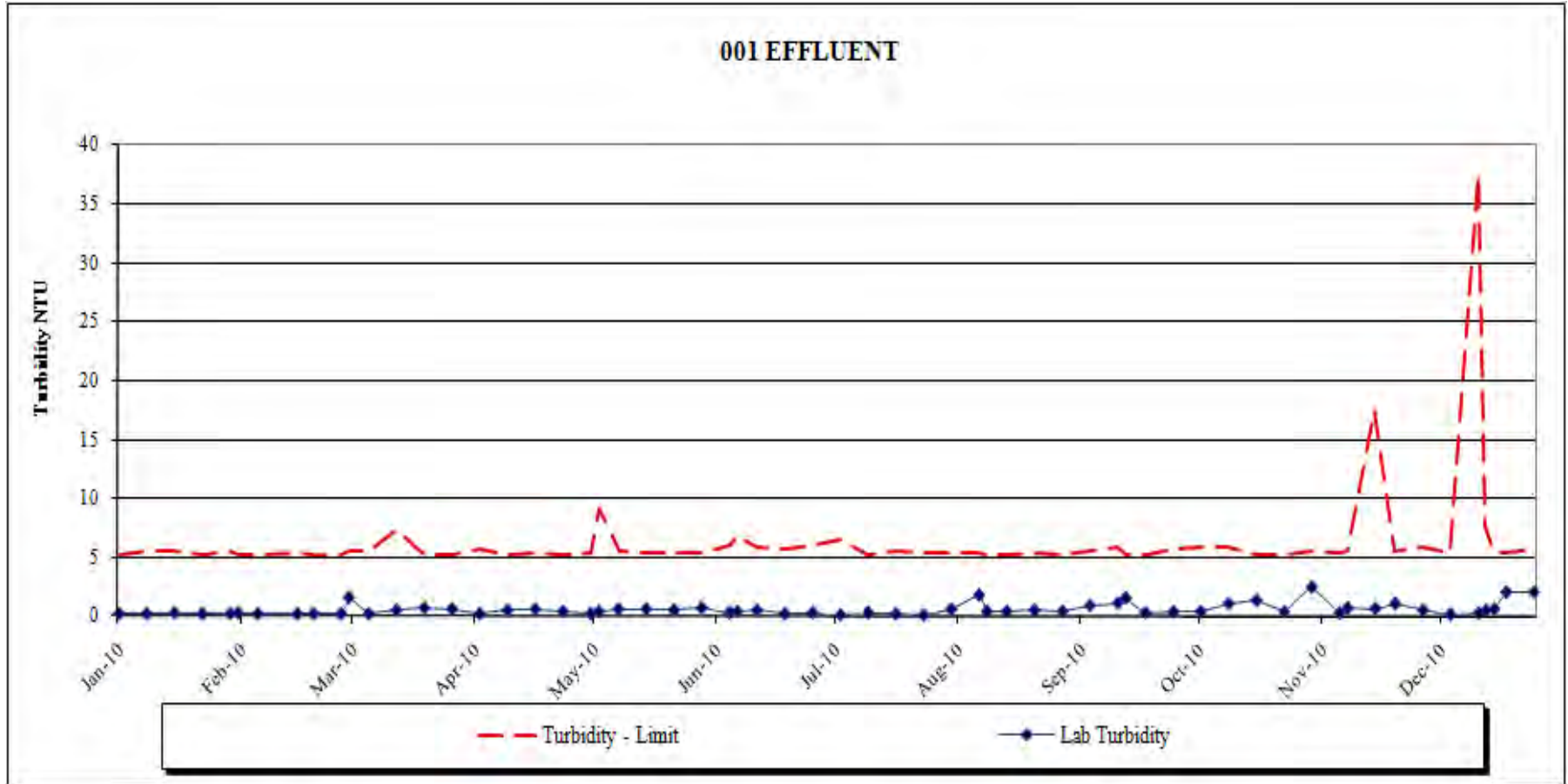


Figure 10b: Outfall 001 Effluent Monitoring Results 2010, Major Chemistry

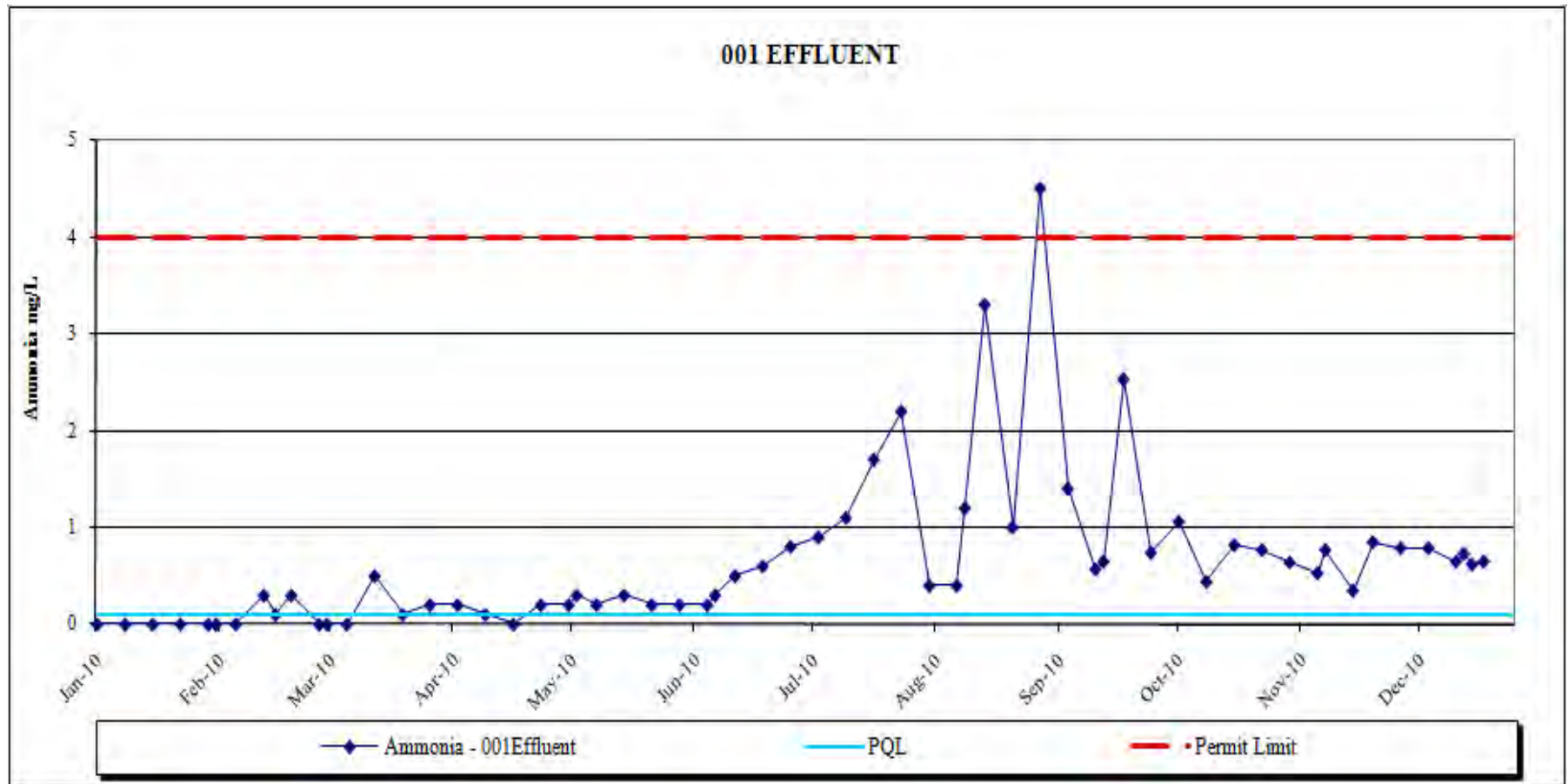


Figure 10b: Outfall 001 Effluent Monitoring Results 2010, Major Chemistry

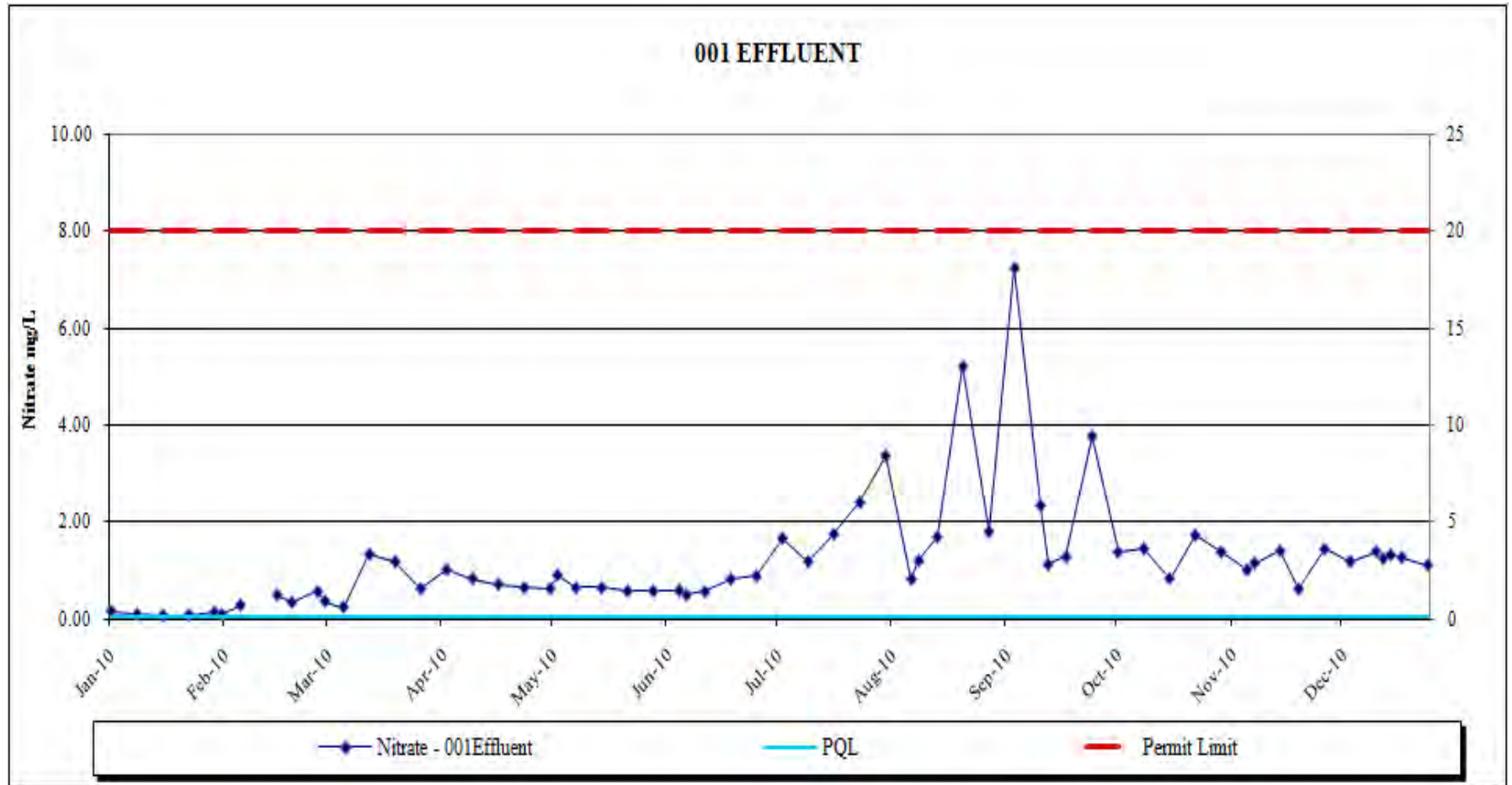


Figure 10b: Outfall 001 Effluent Monitoring Results 2010, Major Chemistry

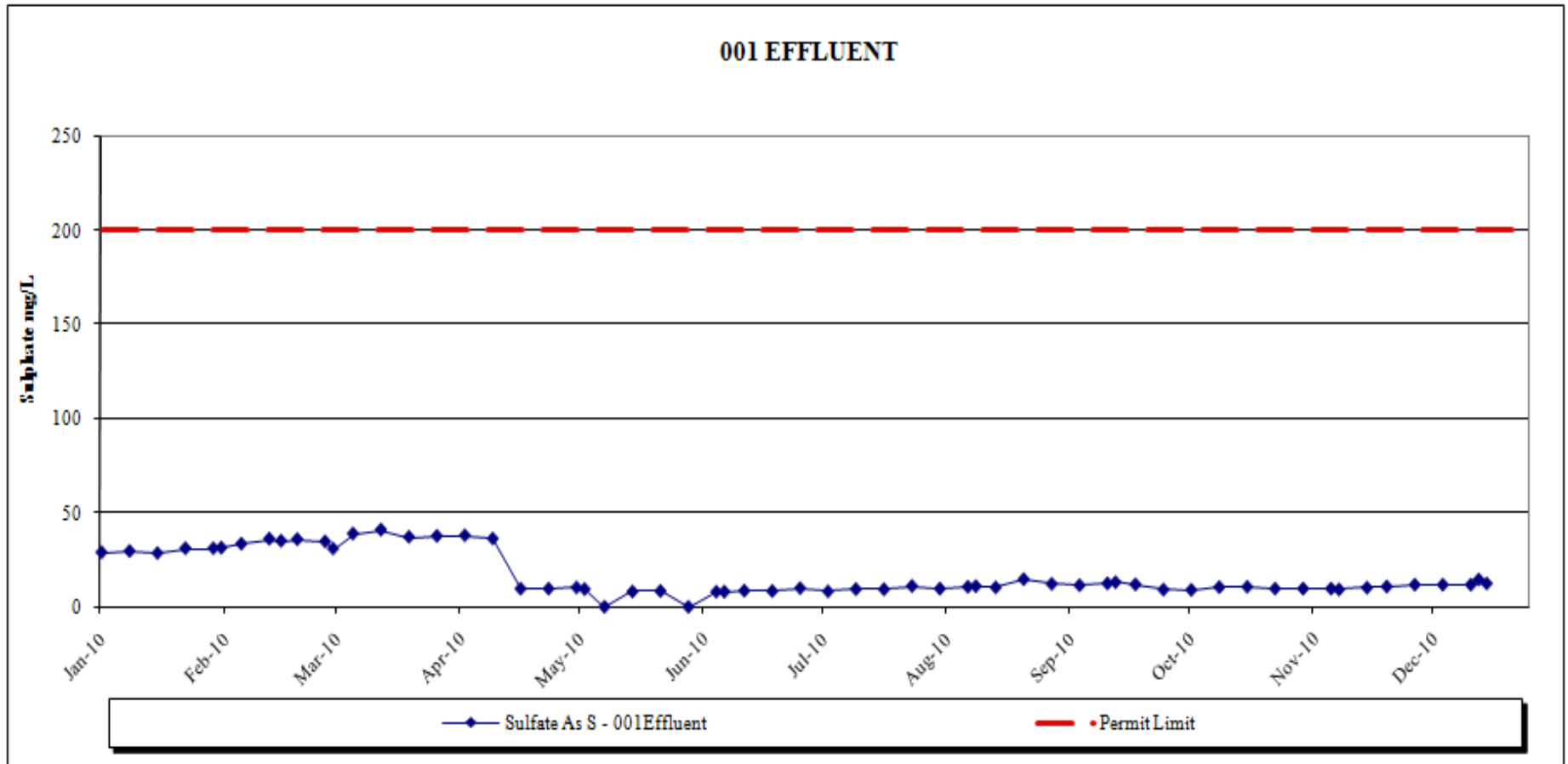


Figure 10b: Outfall 001 Effluent Monitoring Results 2010, Major Chemistry

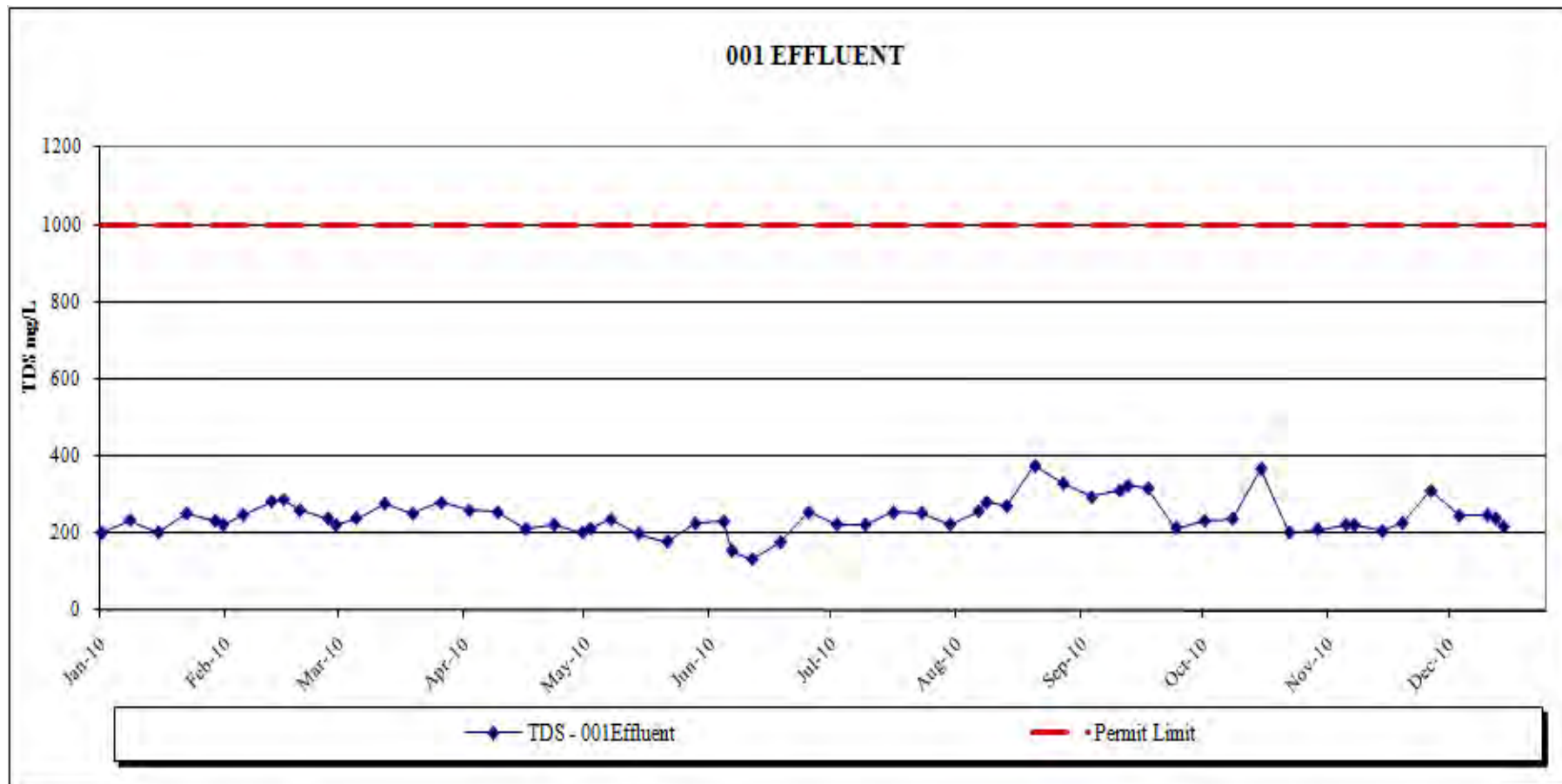


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

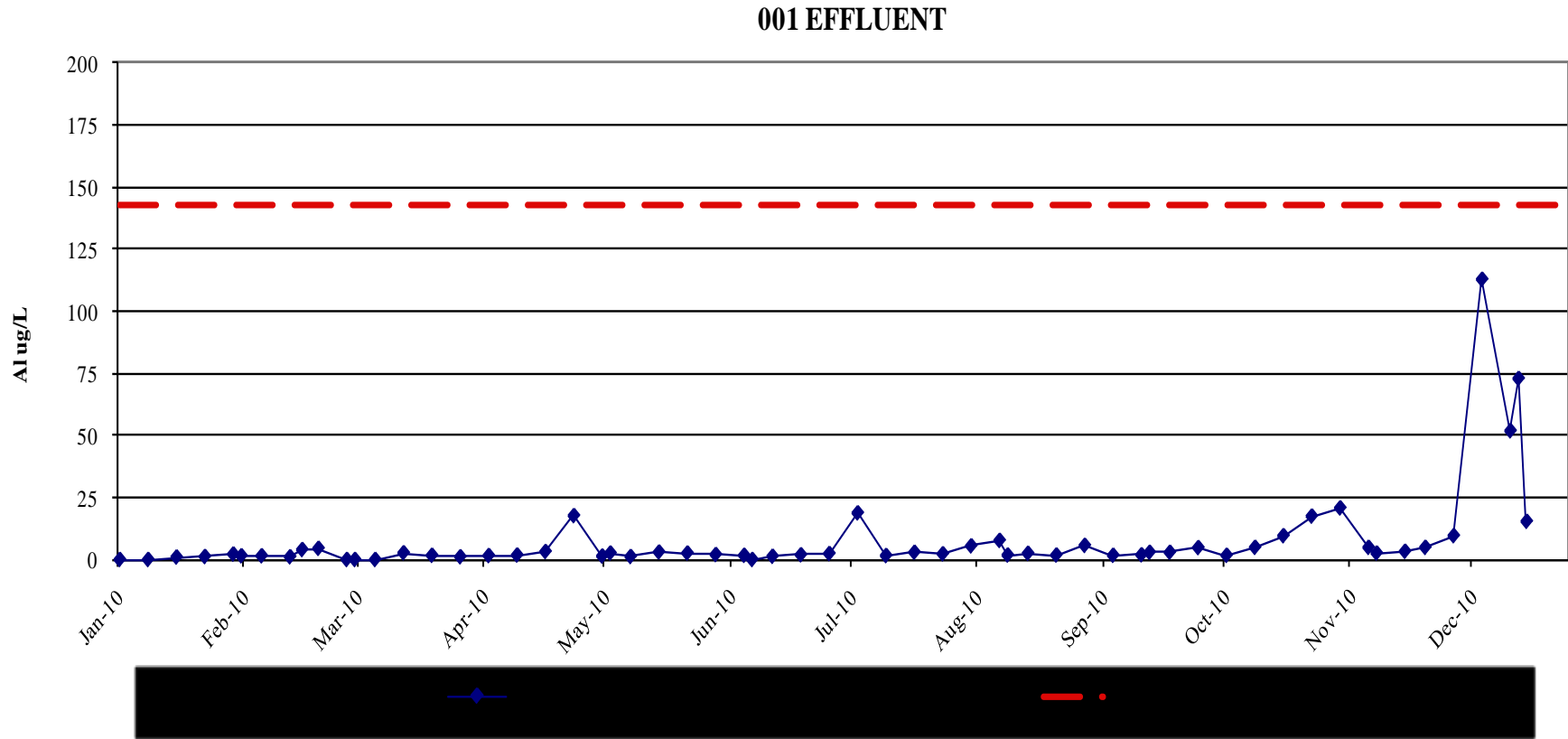


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

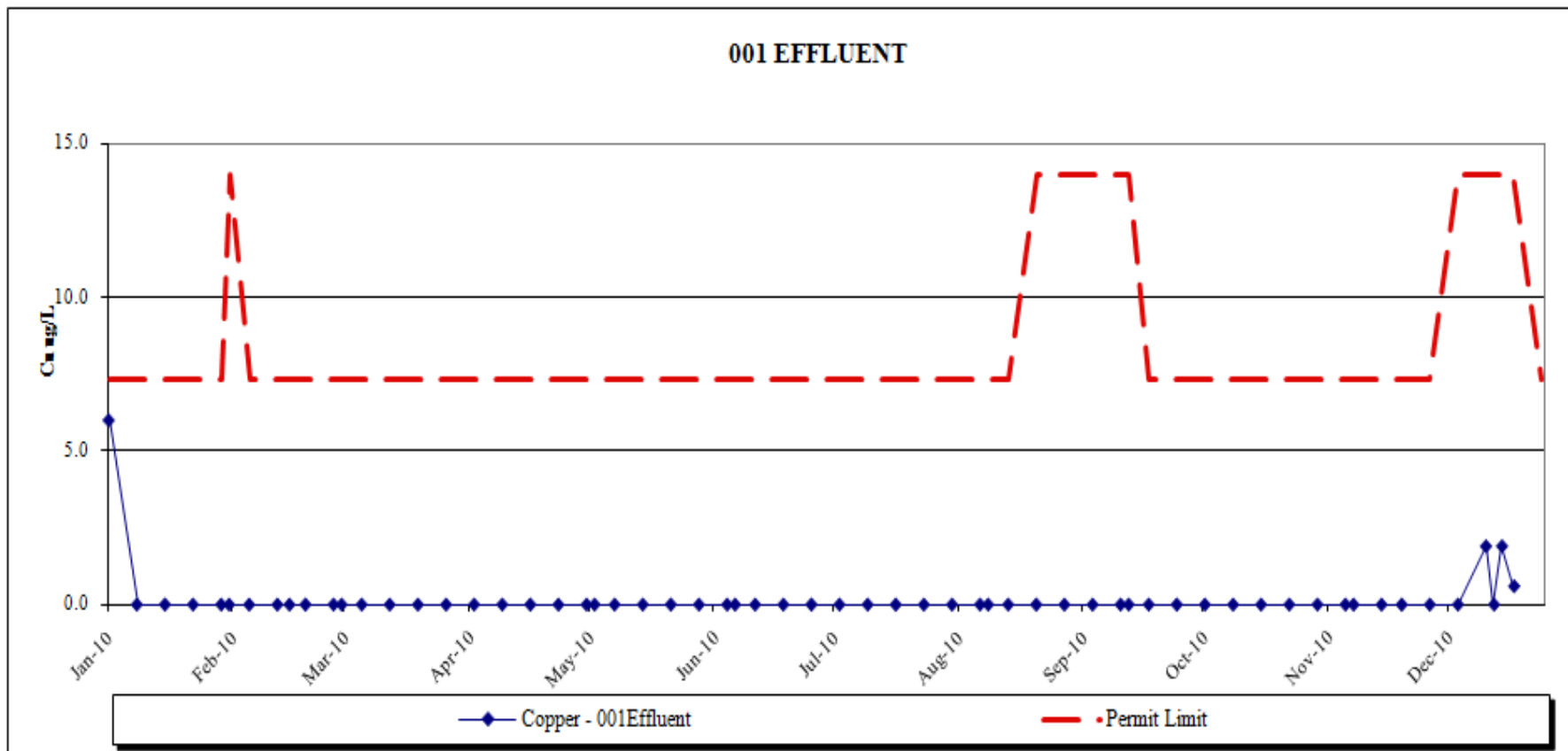


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

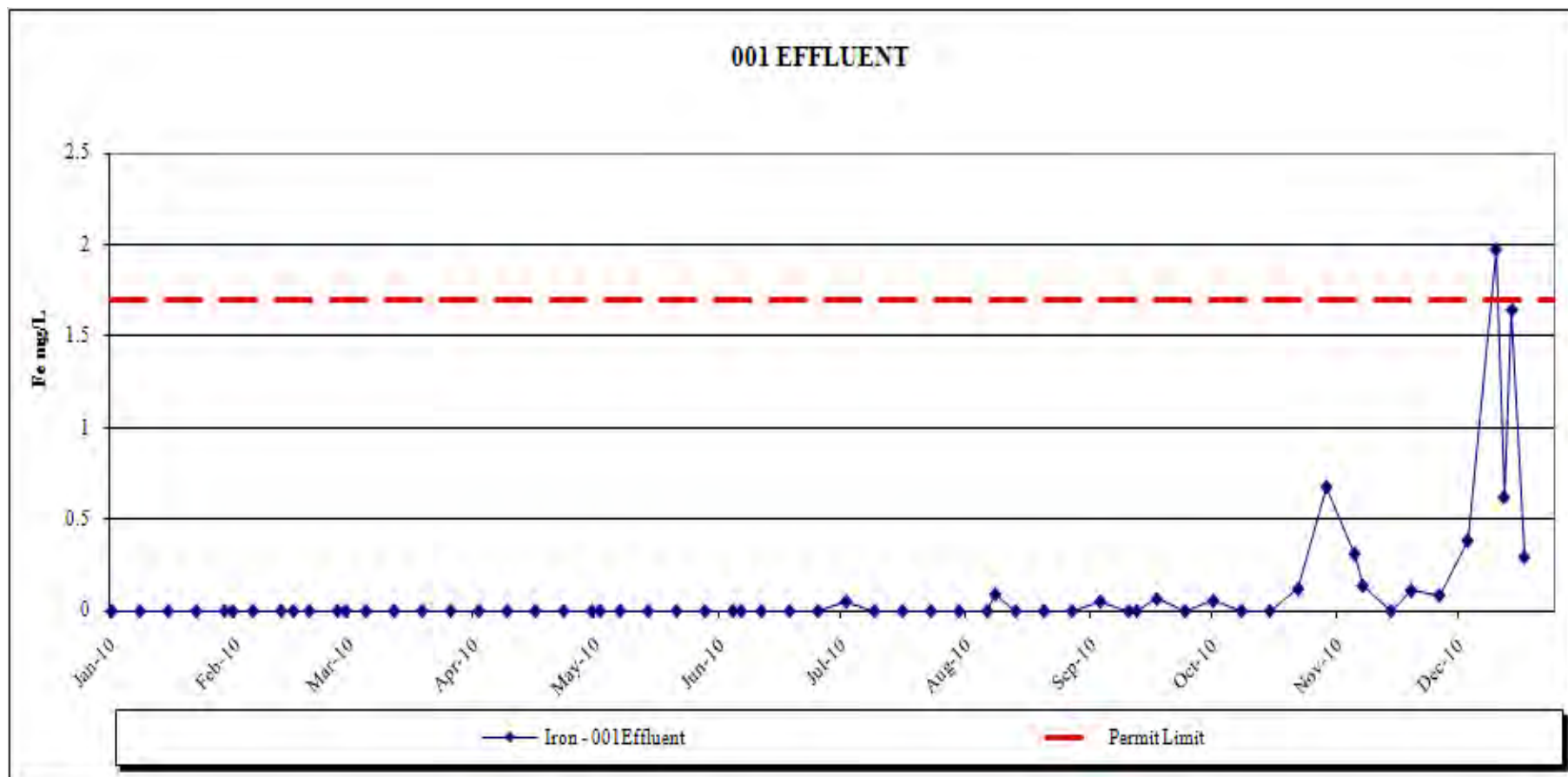


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

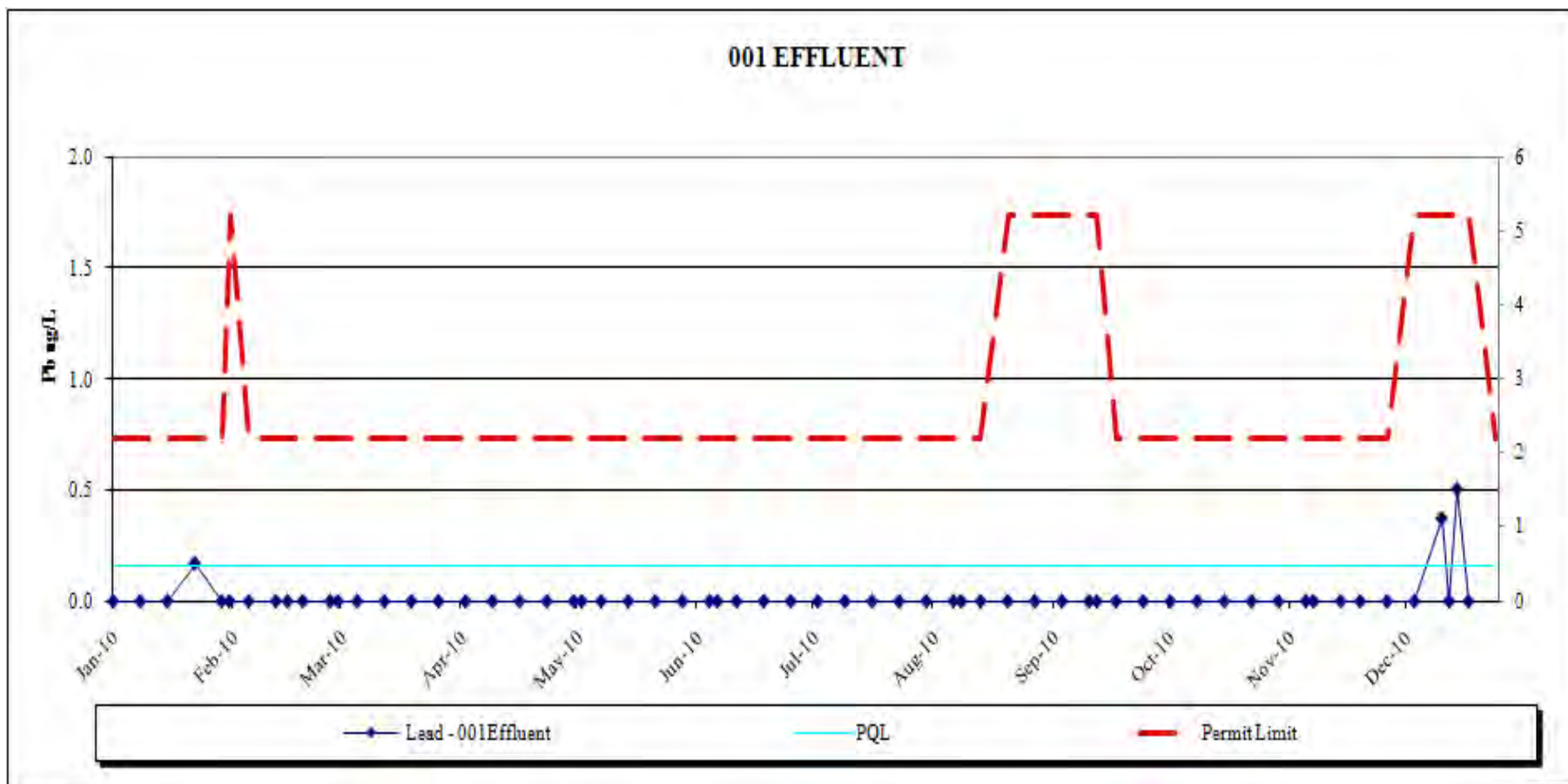


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

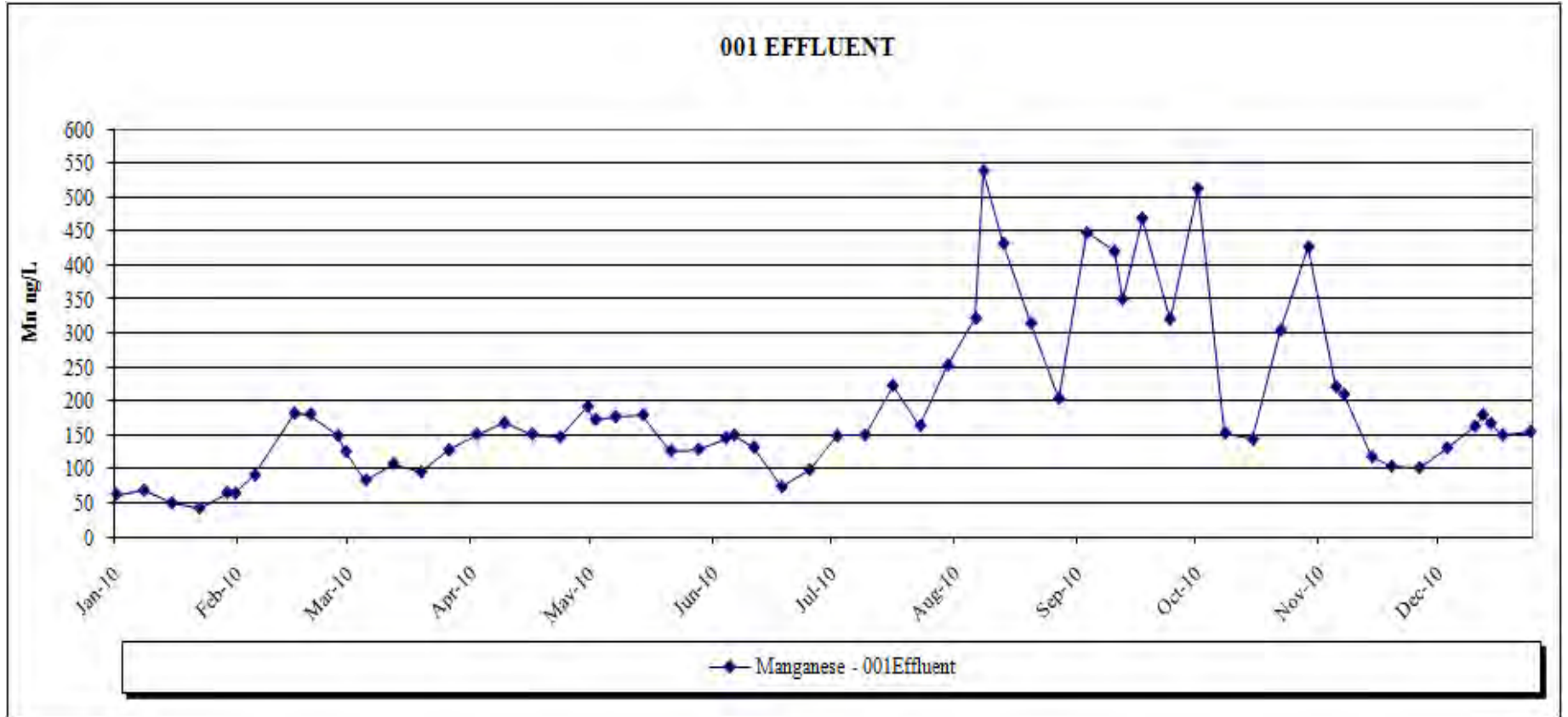


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

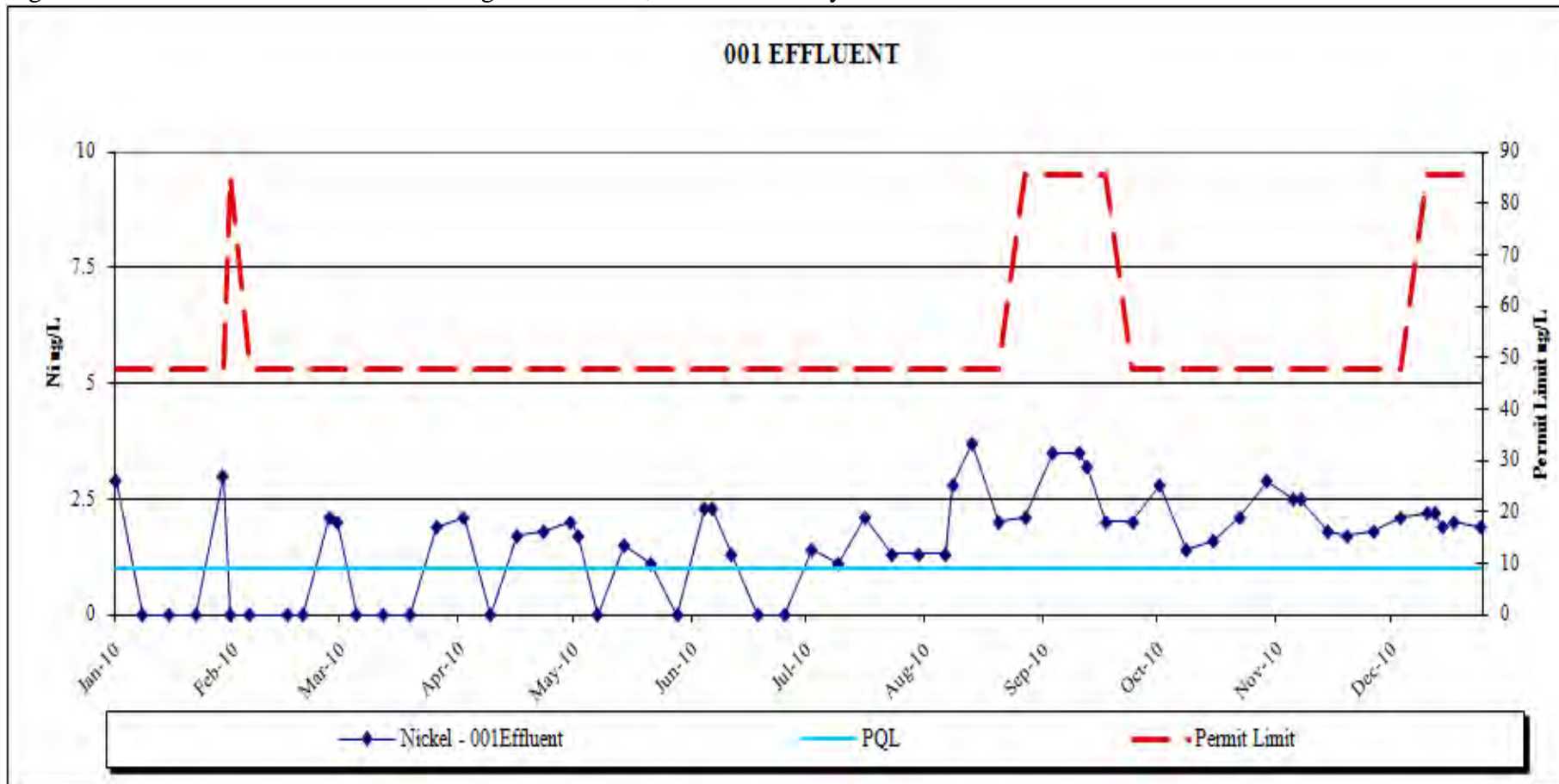


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

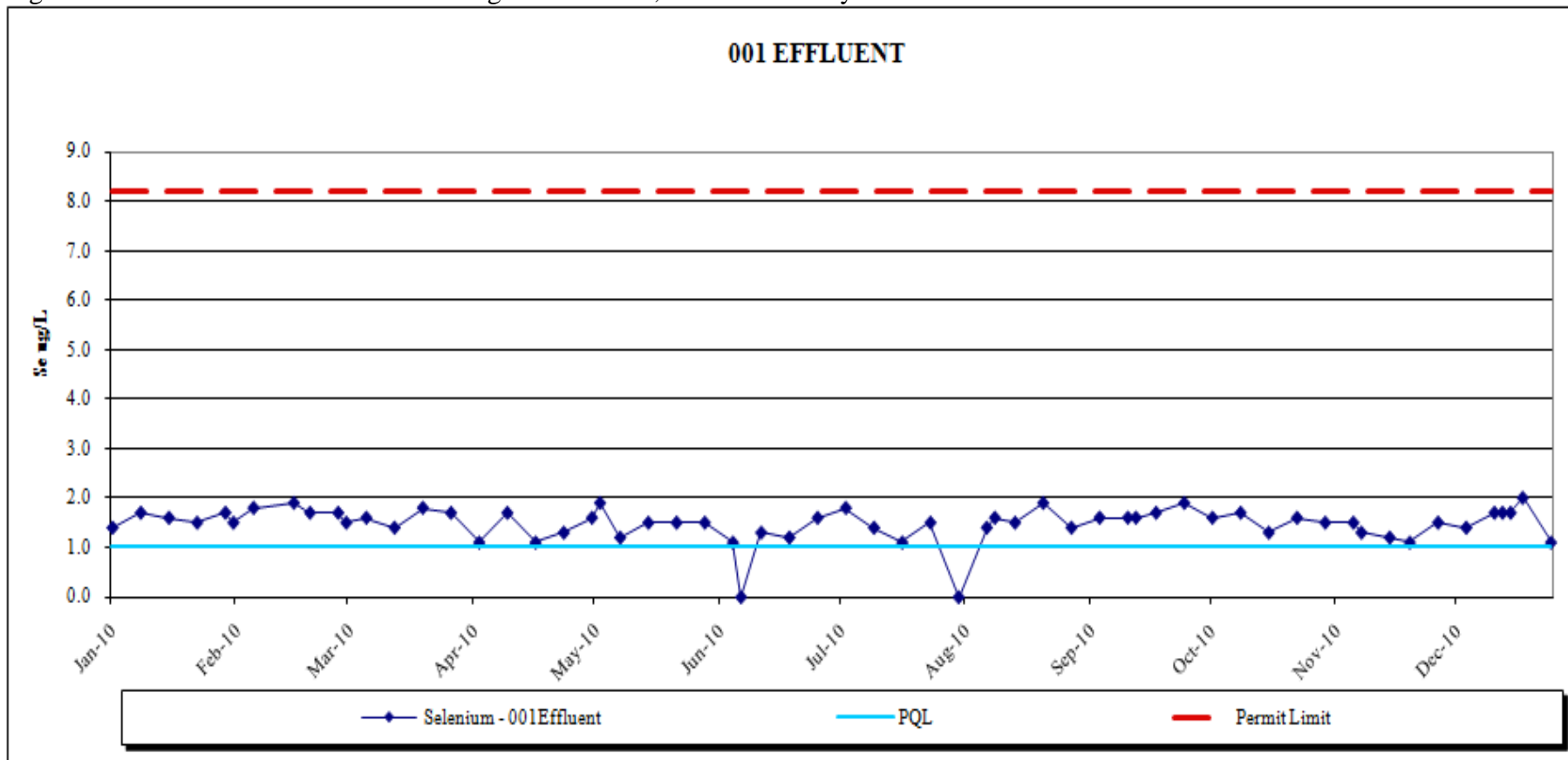


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

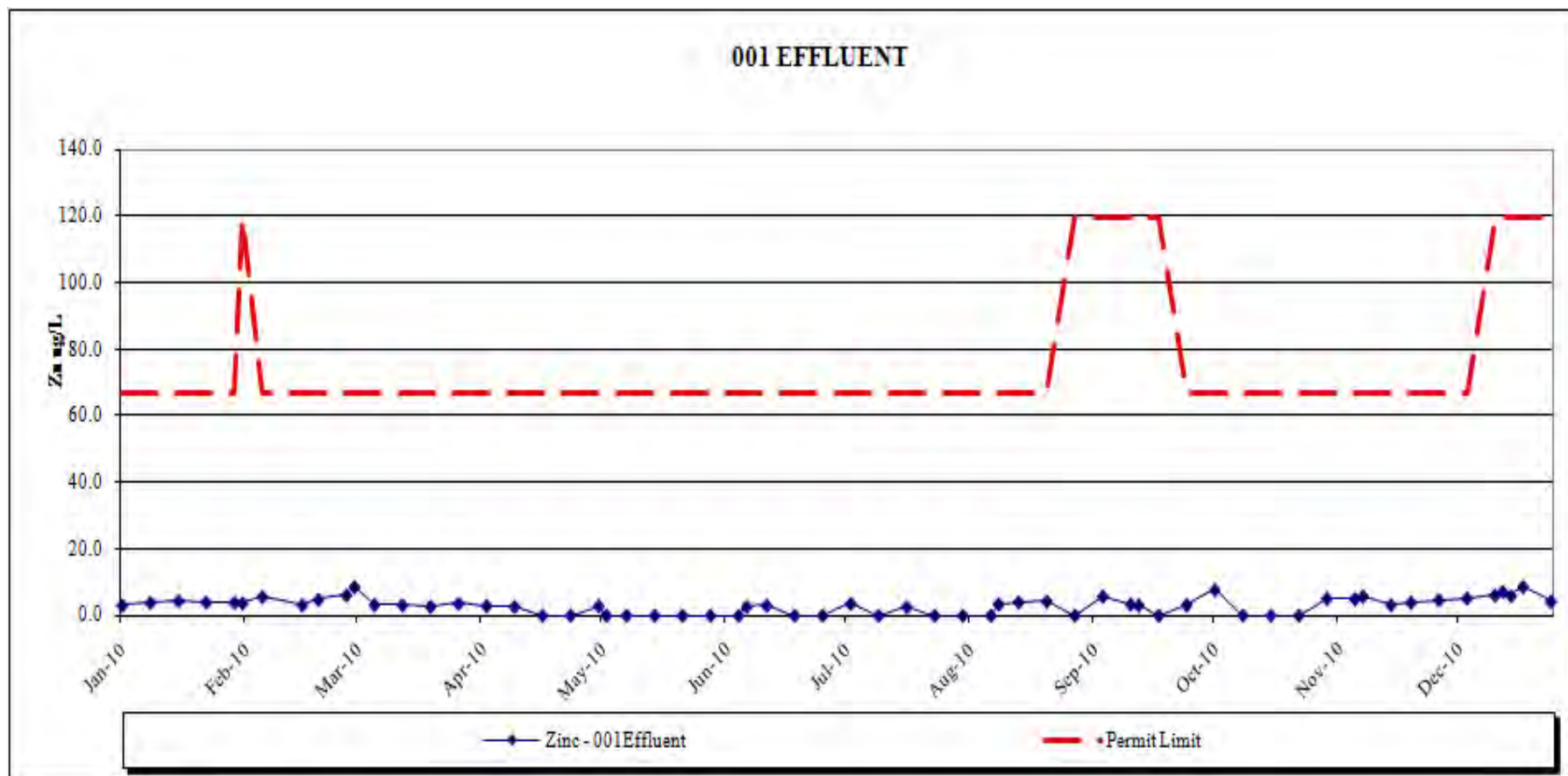


Figure 10c: Outfall 001 Effluent Monitoring Results 2010, Trace Chemistry

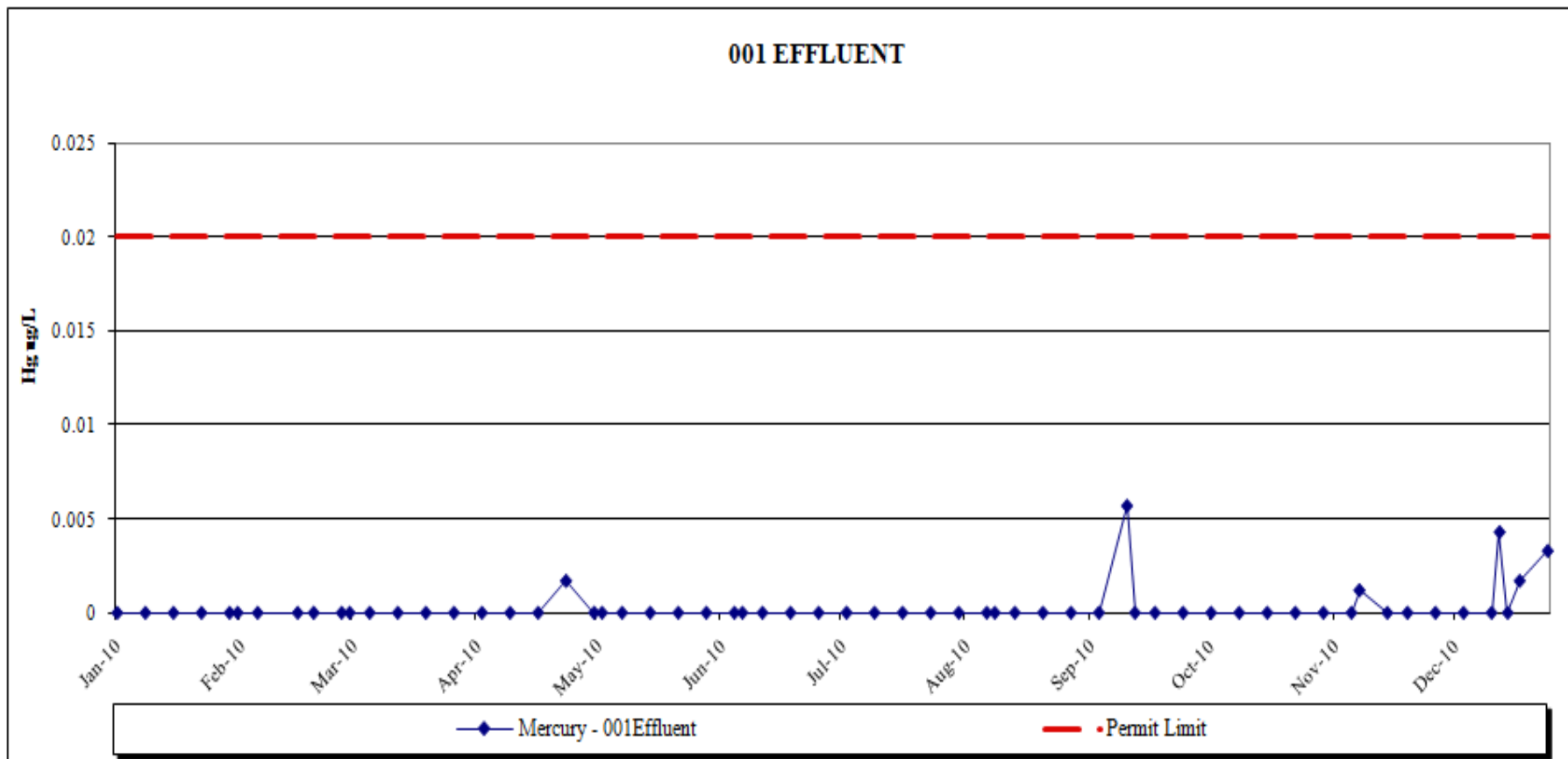


Figure 10d: Outfall 001 Effluent Monitoring Results 2010, Other Parameters

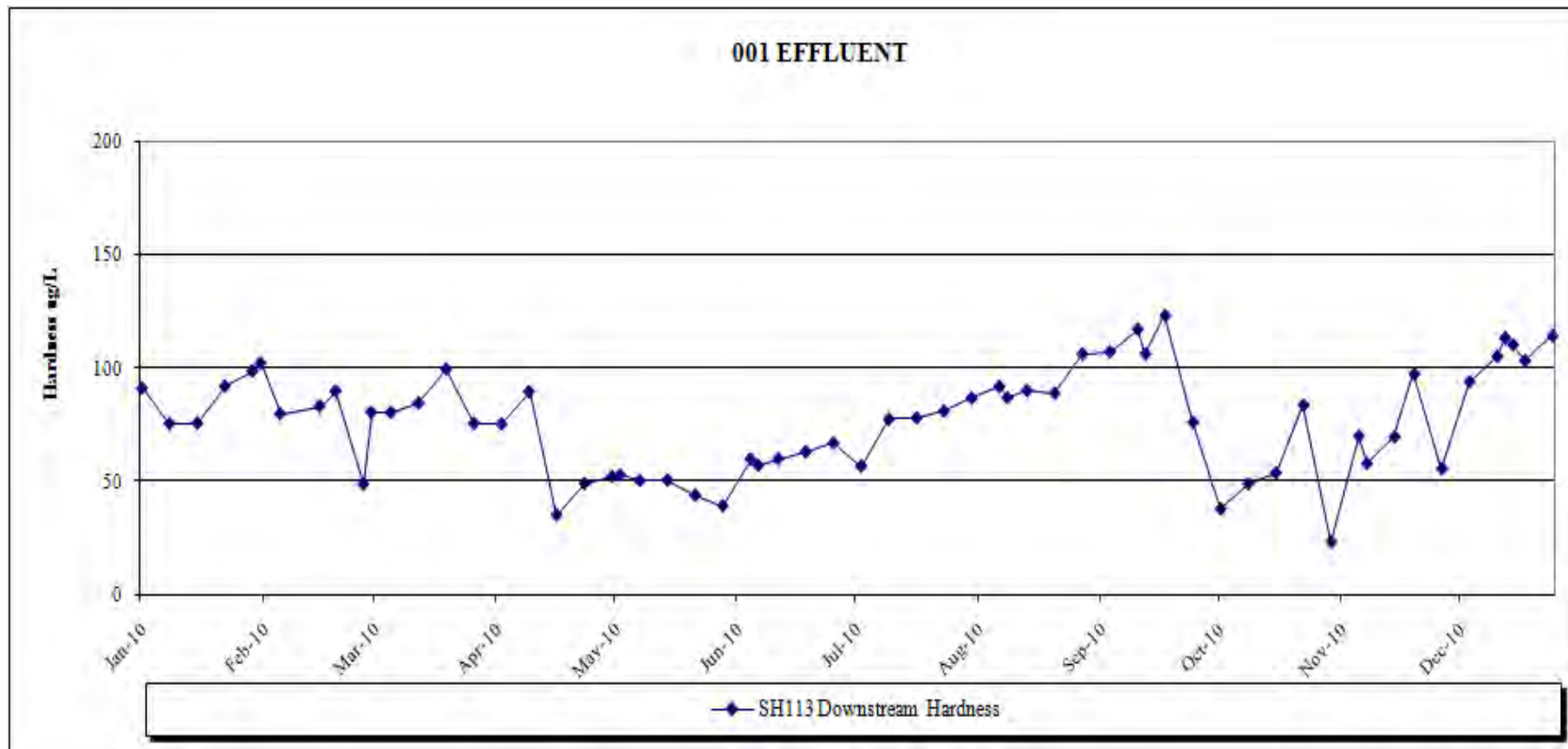


Figure 10d: Outfall 001 Effluent Monitoring Results 2010, Other Parameters

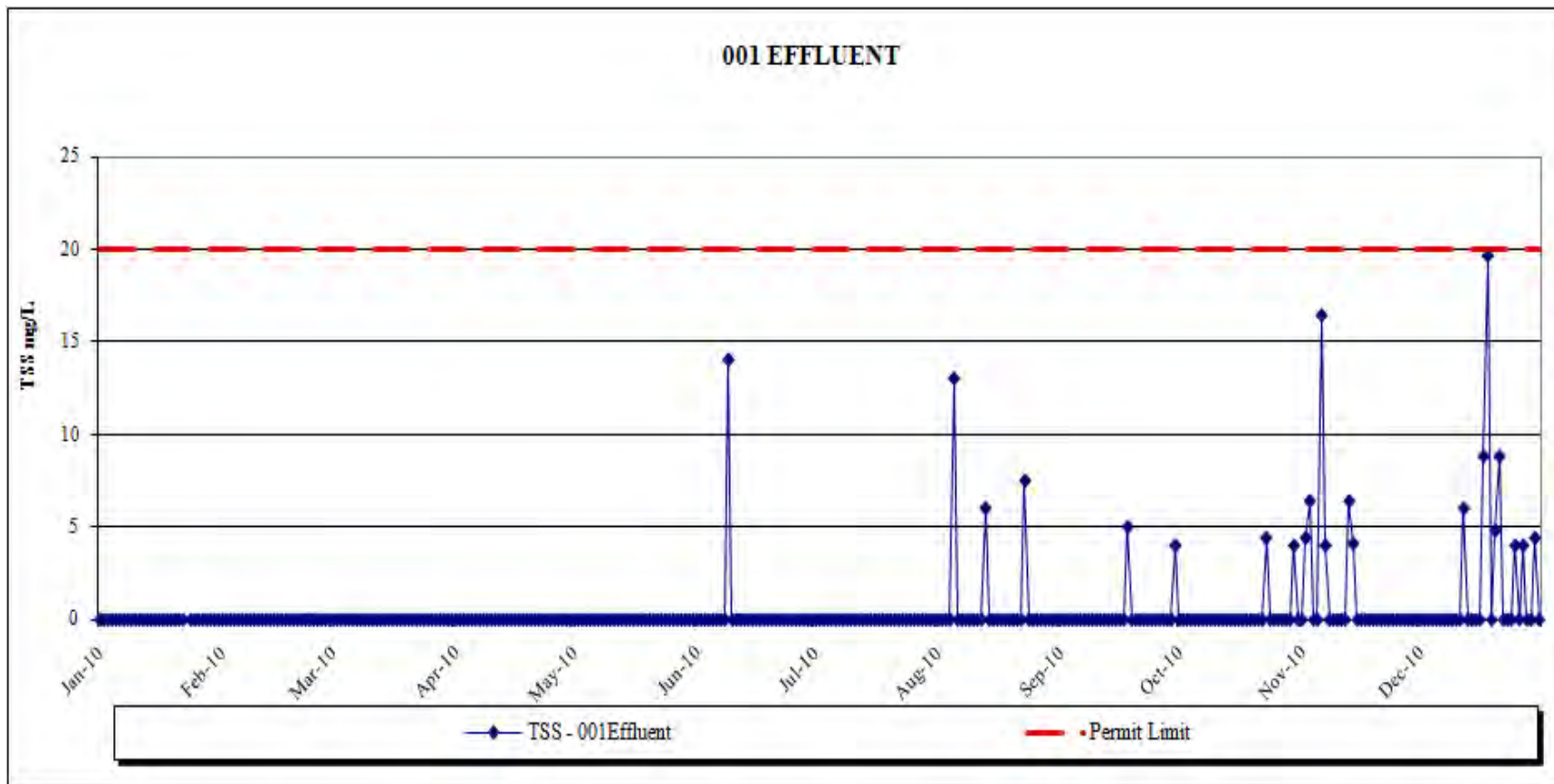


Figure 10d: Outfall 001 Effluent Monitoring Results 2010, Other Parameters

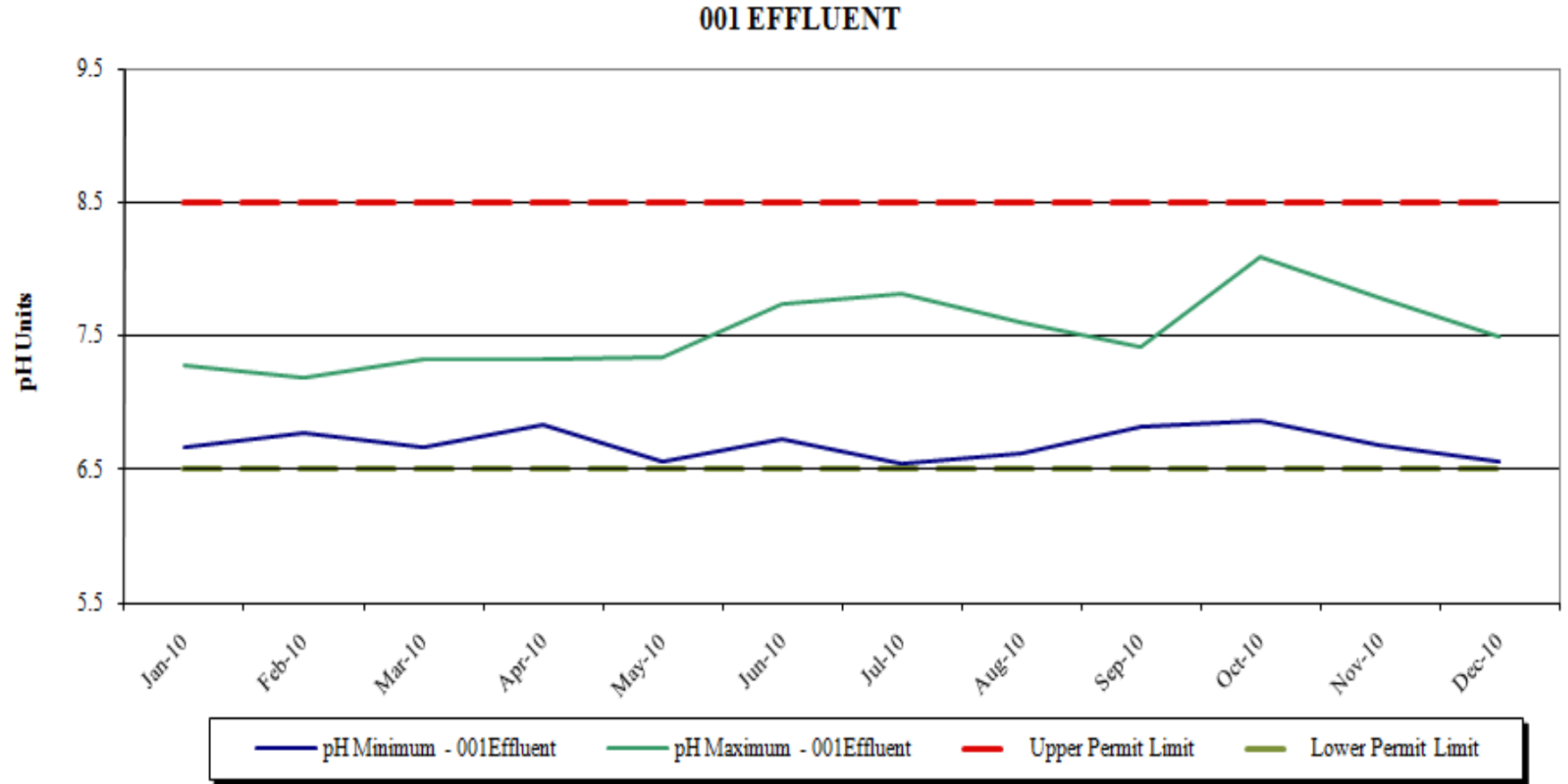


Figure 10d: Outfall 001 Effluent Monitoring Results 2010, Other Parameters

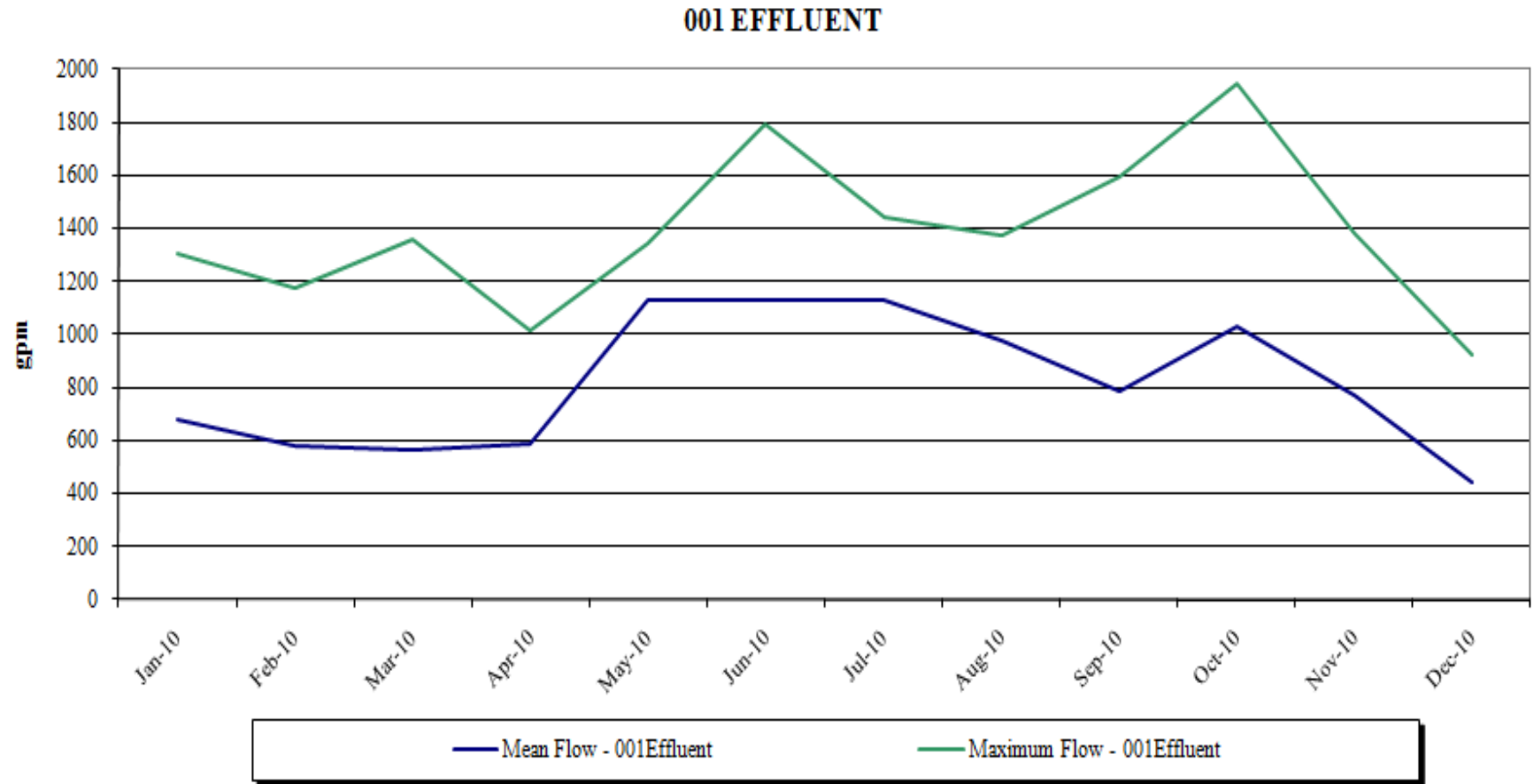


Figure 11a: Outfall 002 Effluent Monitoring Results 2010, Field Parameters

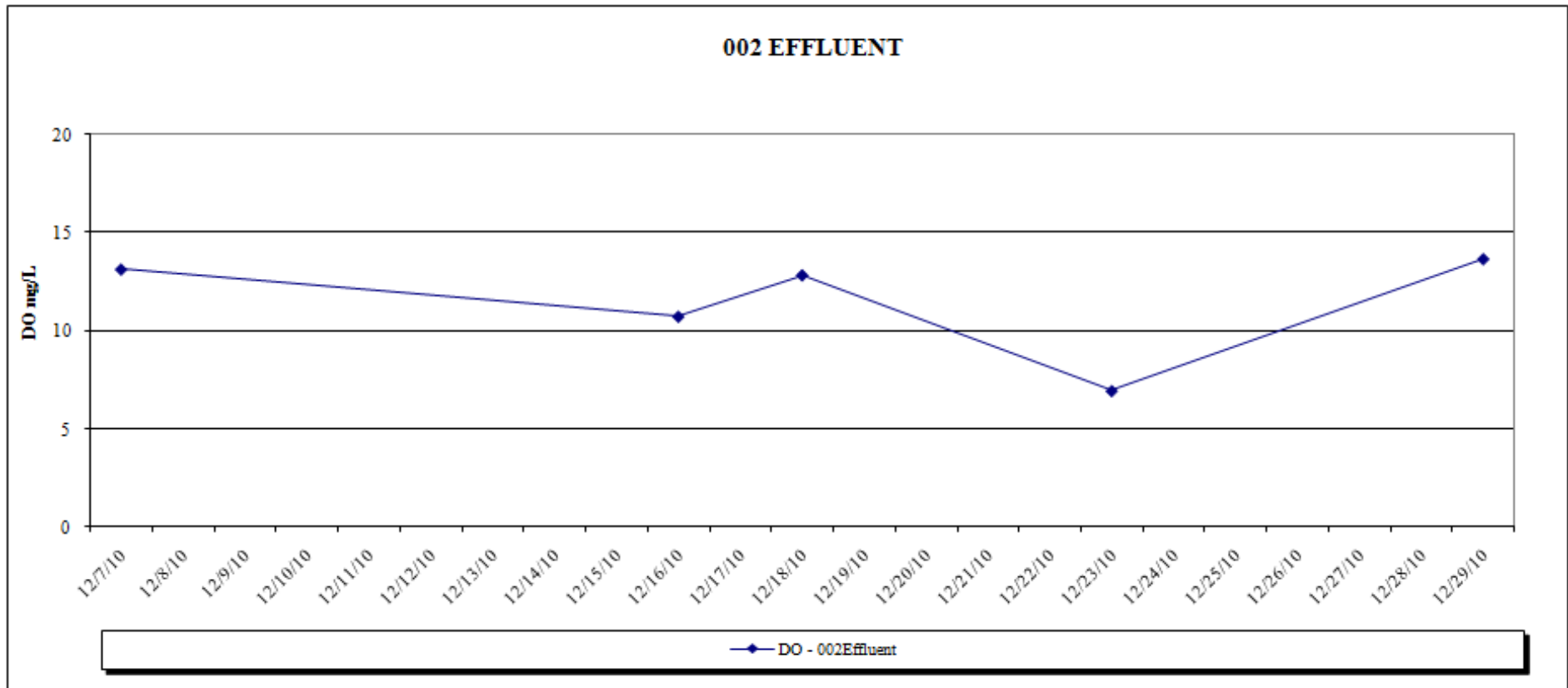


Figure 11a: Outfall 002 Effluent Monitoring Results 2010, Field Parameters

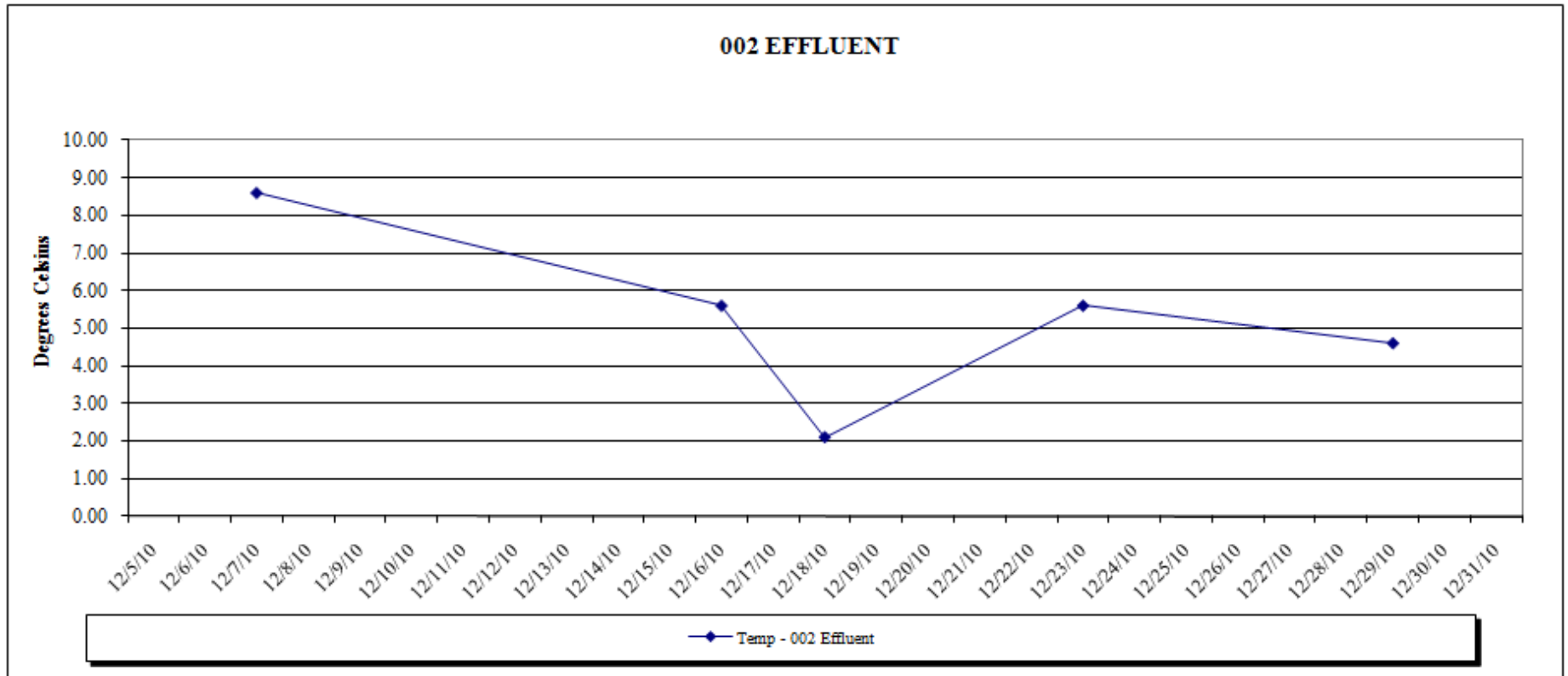


Figure 11a: Outfall 002 Effluent Monitoring Results 2010, Field Parameters

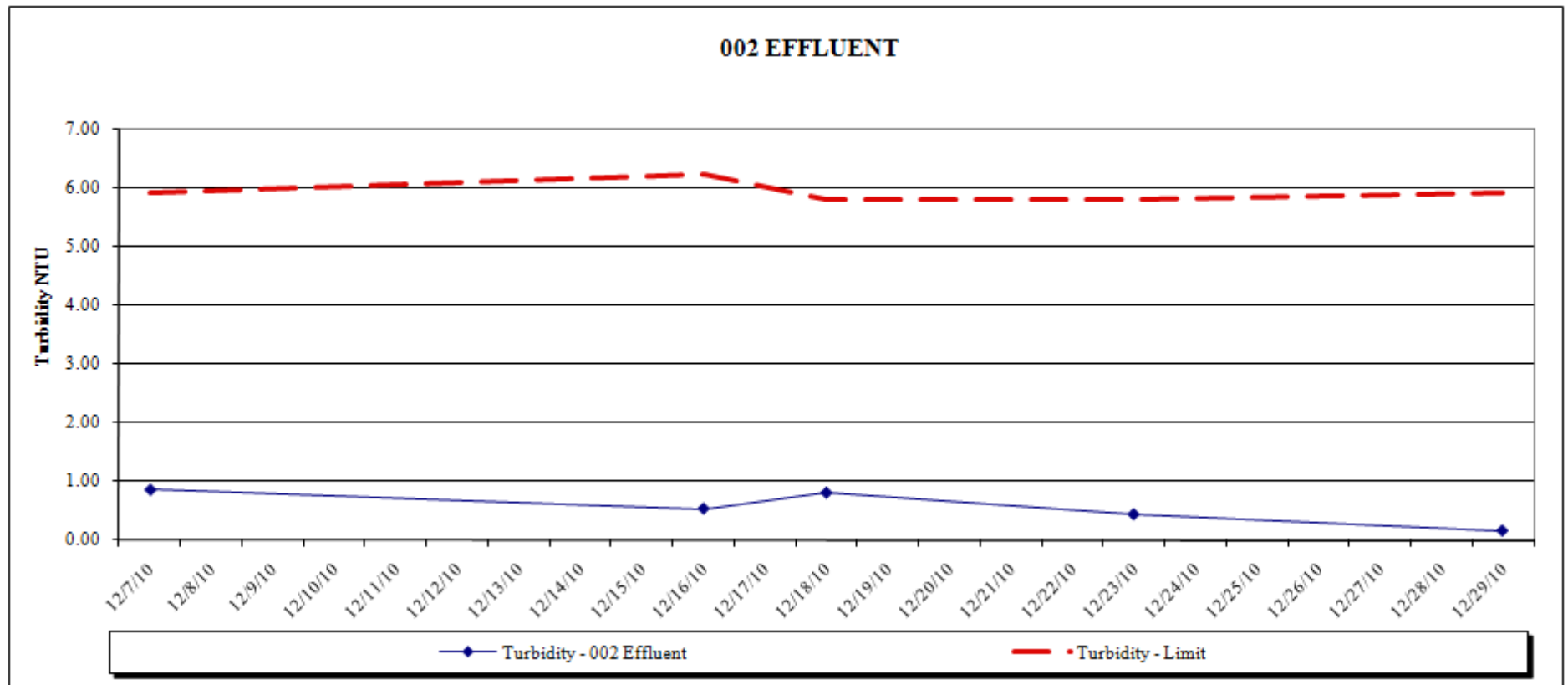


Figure 11b: Outfall 002 Effluent Monitoring Results 2010, Major Chemistry

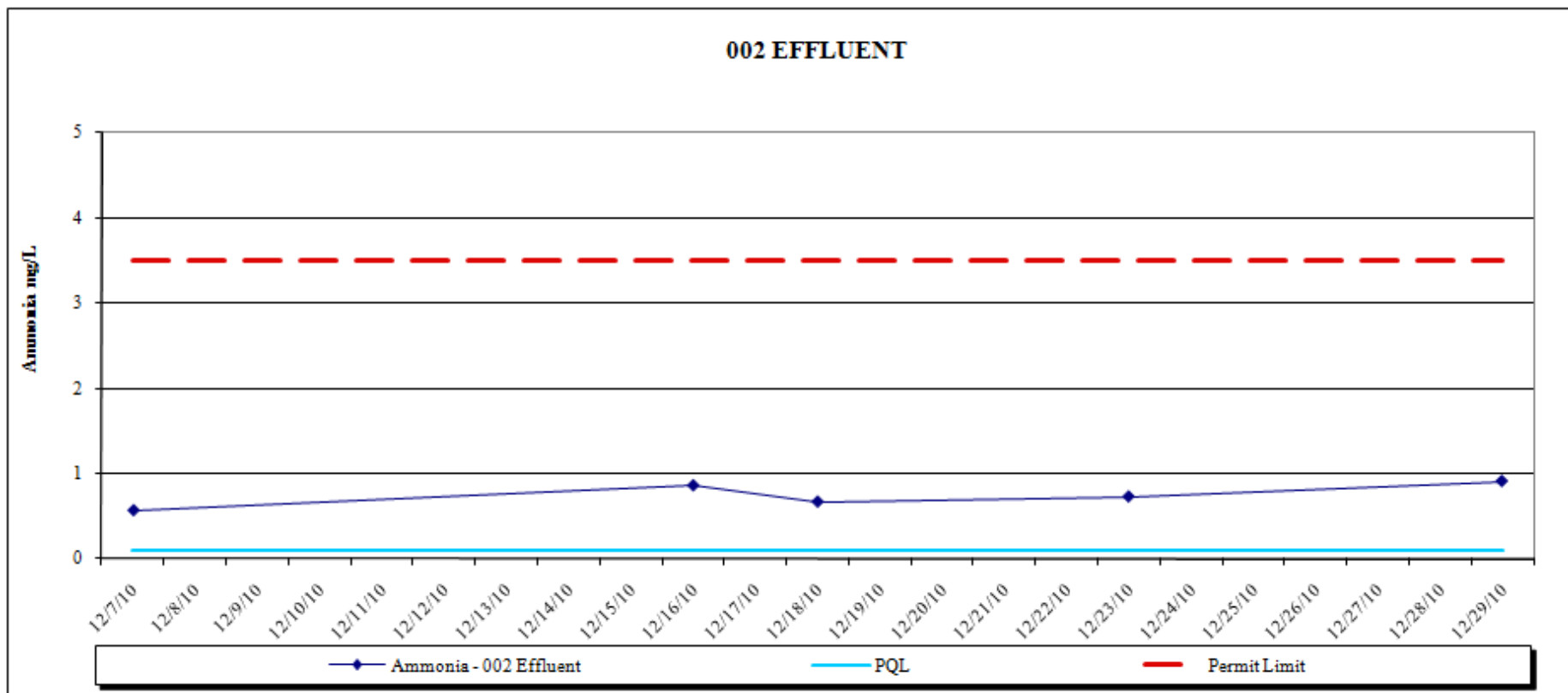


Figure 11b: Outfall 002 Effluent Monitoring Results 2010, Major Chemistry

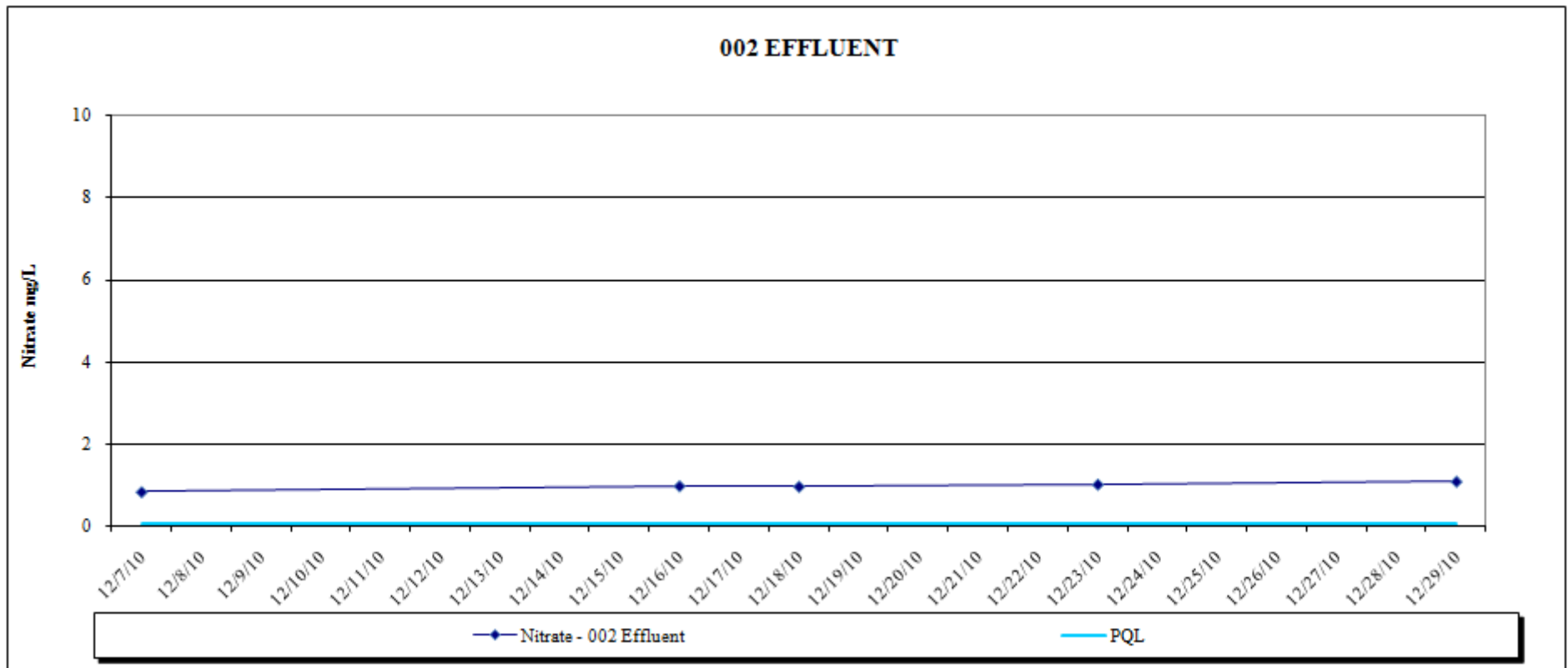


Figure 11b: Outfall 002 Effluent Monitoring Results 2010, Major Chemistry

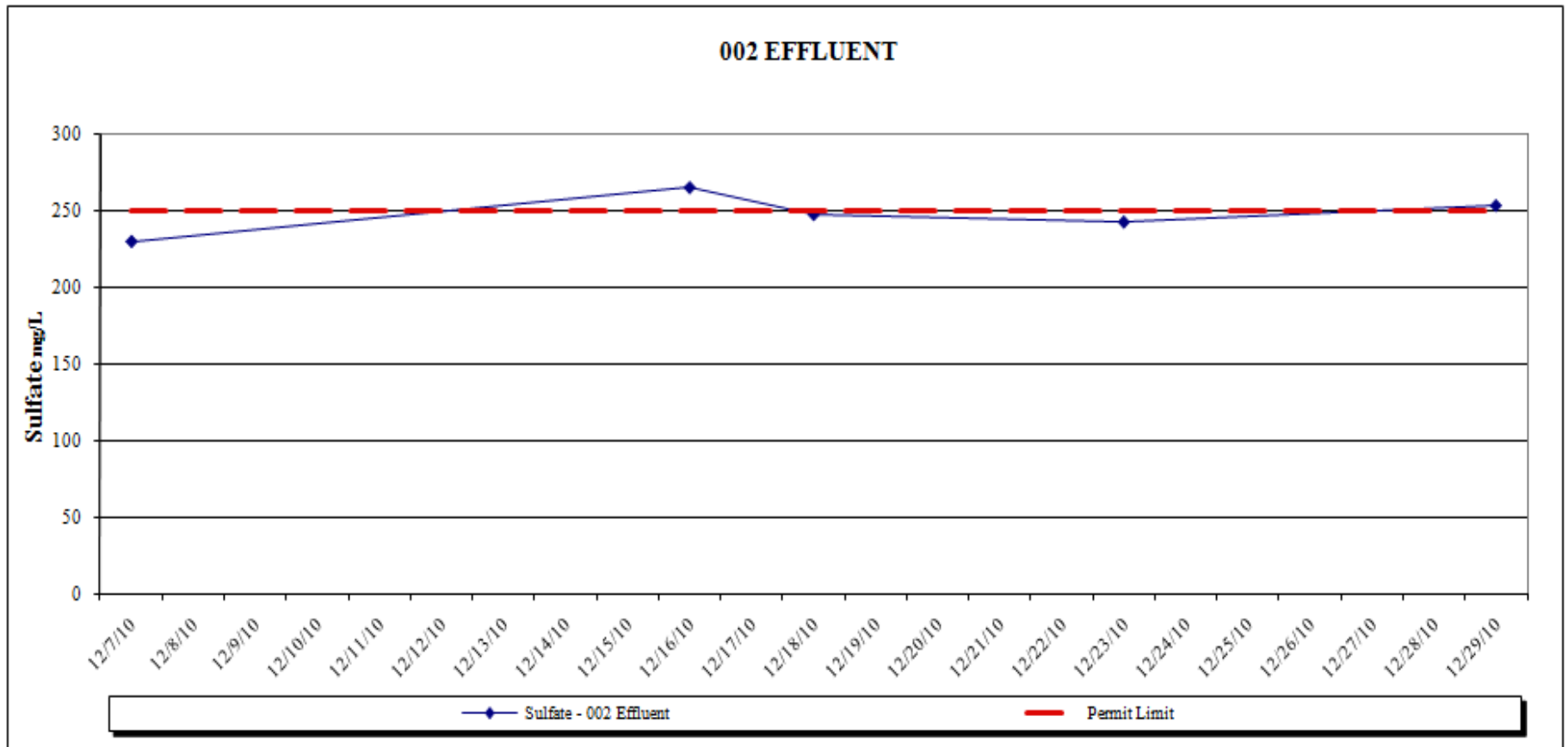


Figure 11b: Outfall 002 Effluent Monitoring Results 2010, Major Chemistry

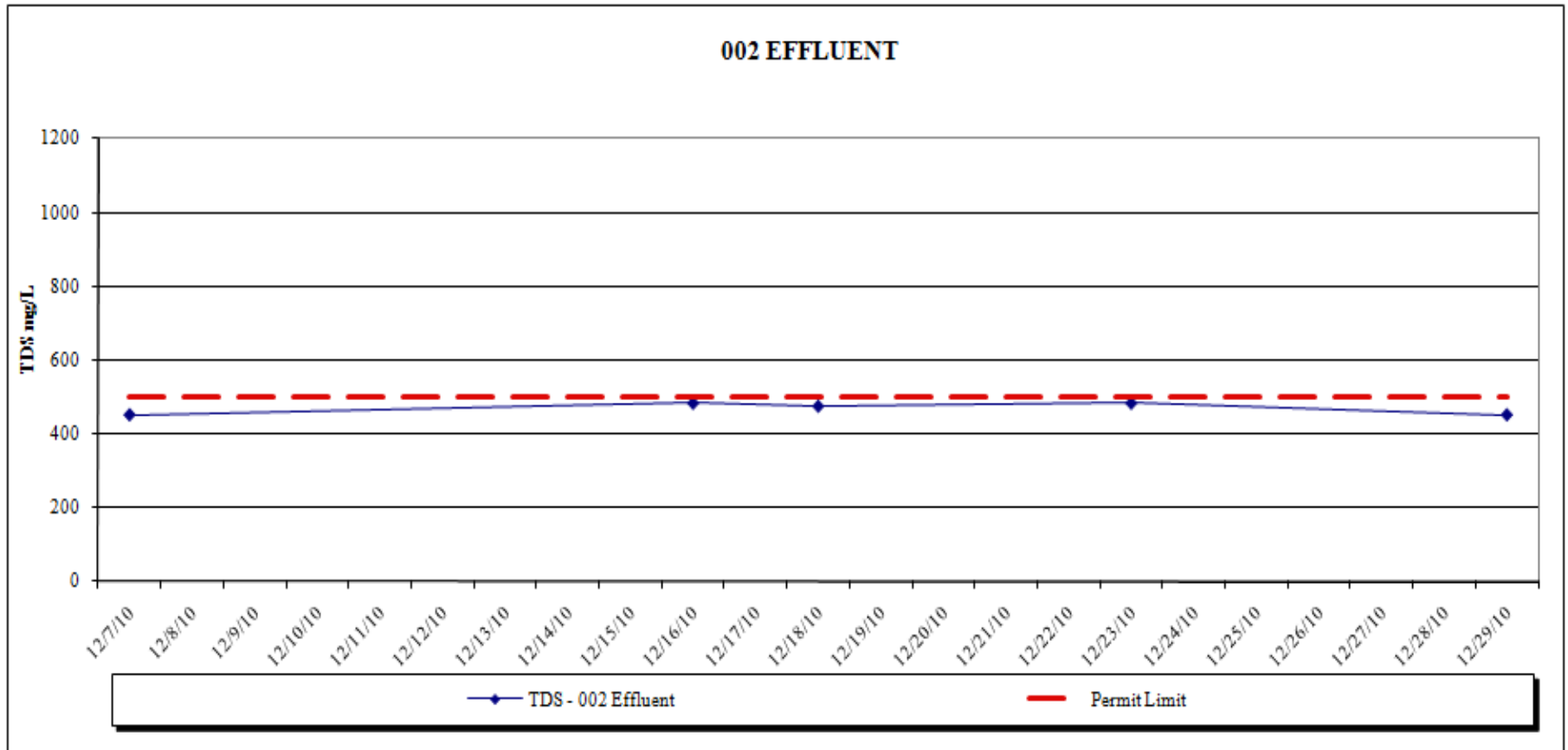


Figure 11c: Outfall 002 Effluent Monitoring Results 2010, Trace Chemistry

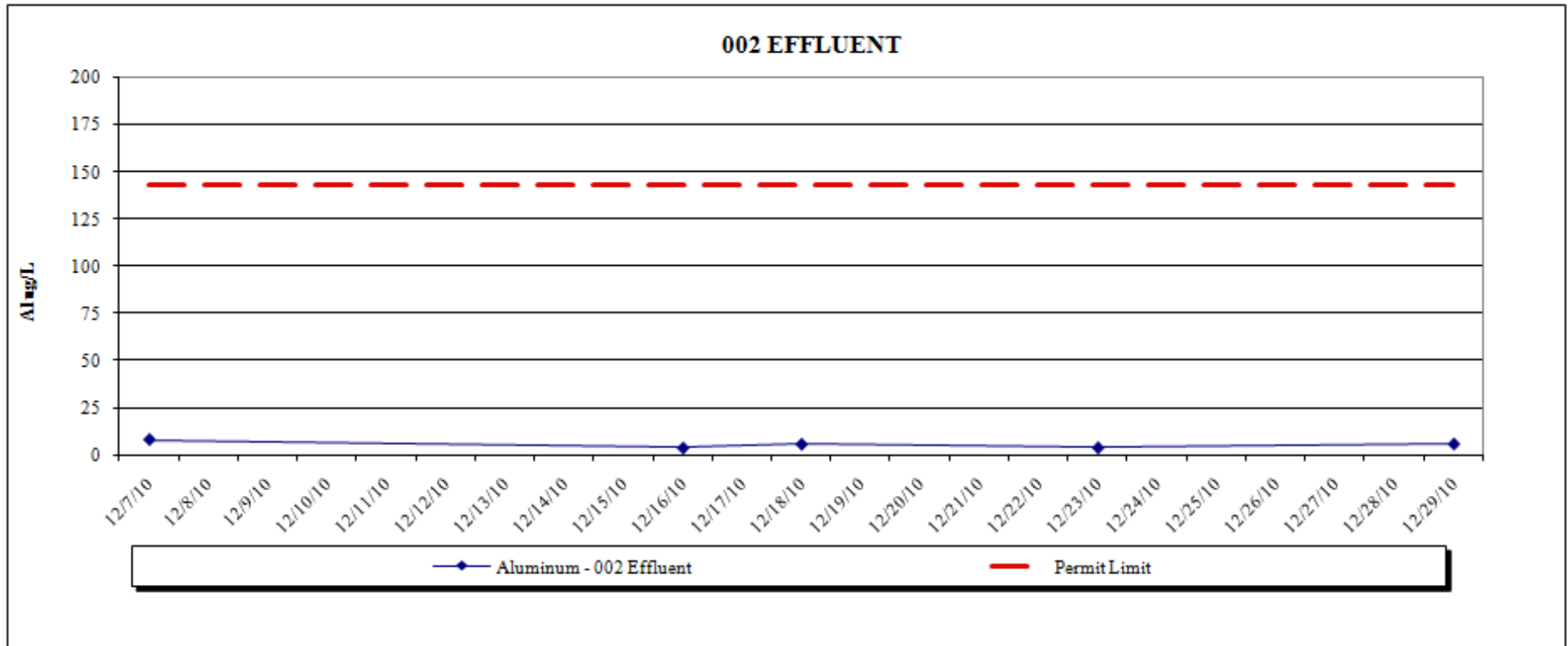


Figure 11c: Outfall 002 Effluent Monitoring Results 2010, Trace Chemistry

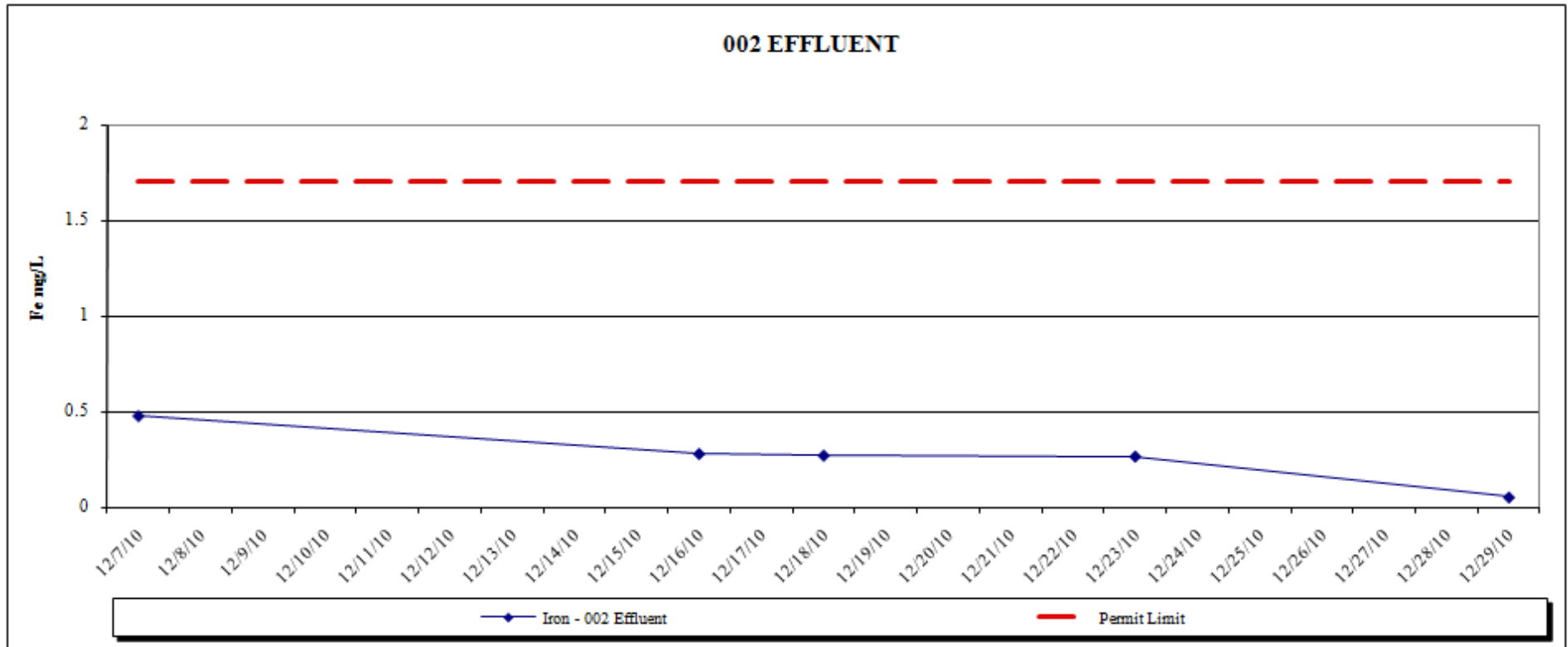


Figure 11c: Outfall 002 Effluent Monitoring Results 2010, Trace Chemistry

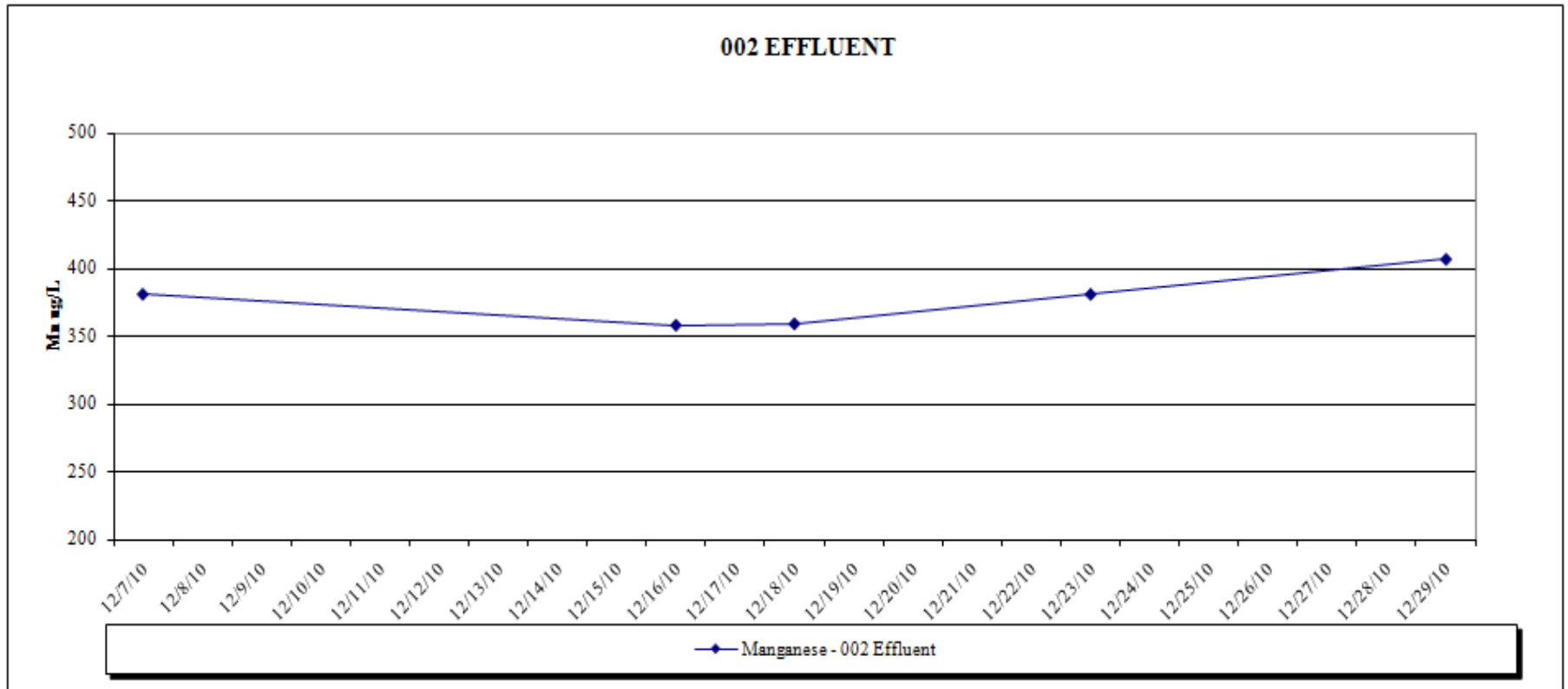


Figure 11c: Outfall 002 Effluent Monitoring Results 2010, Trace Chemistry

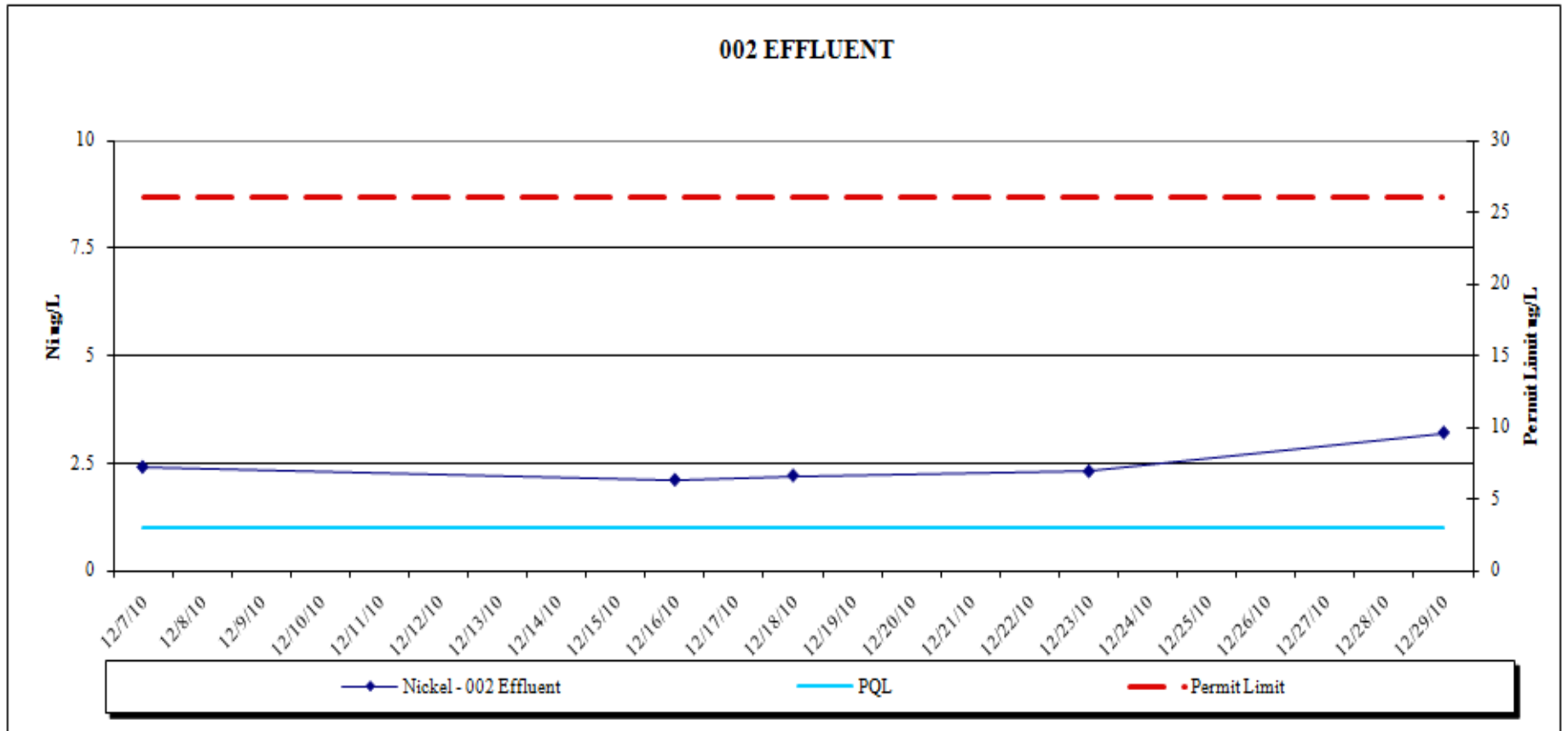


Figure 11c: Outfall 002 Effluent Monitoring Results 2010, Trace Chemistry

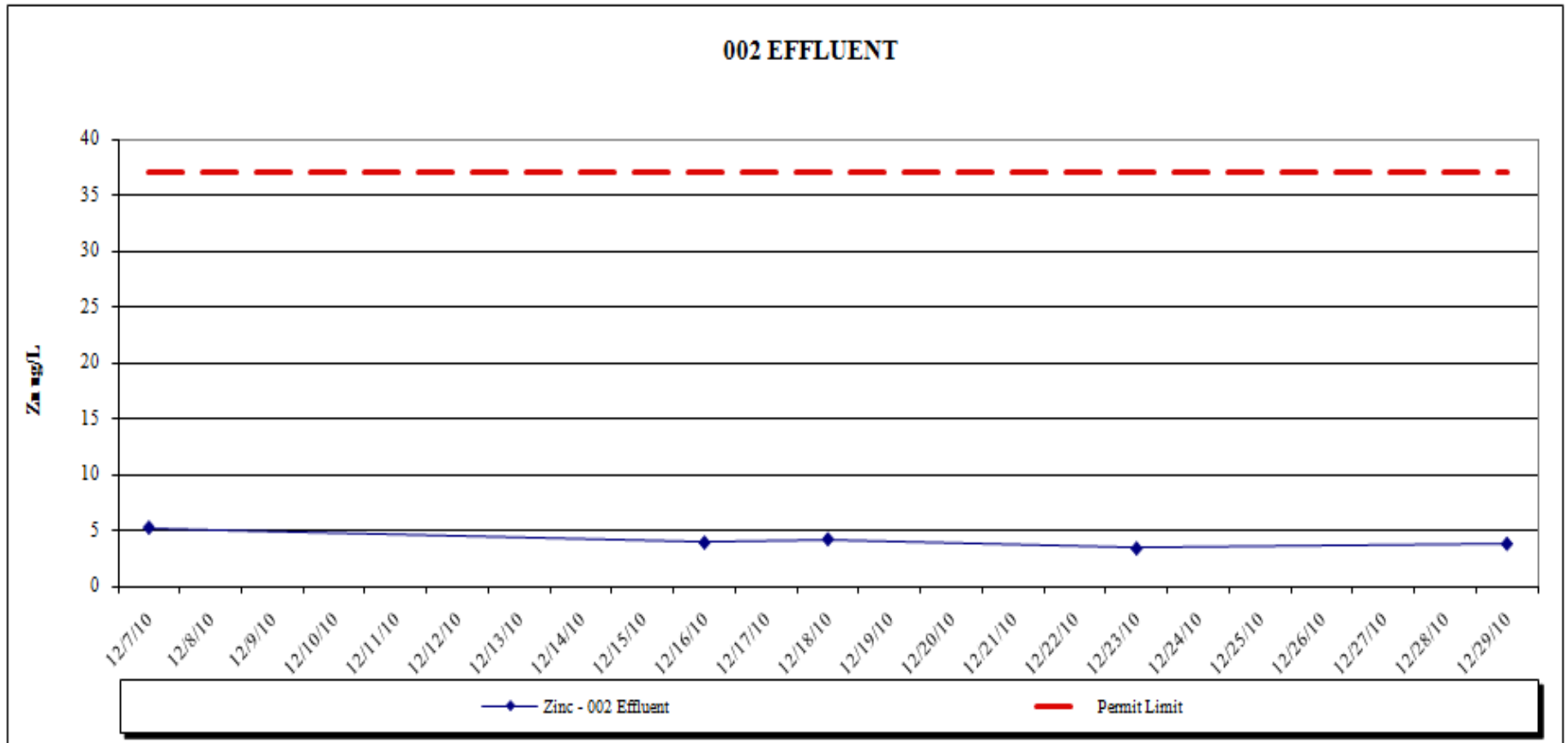


Figure 11c: Outfall 002 Effluent Monitoring Results 2010, Other Parameters

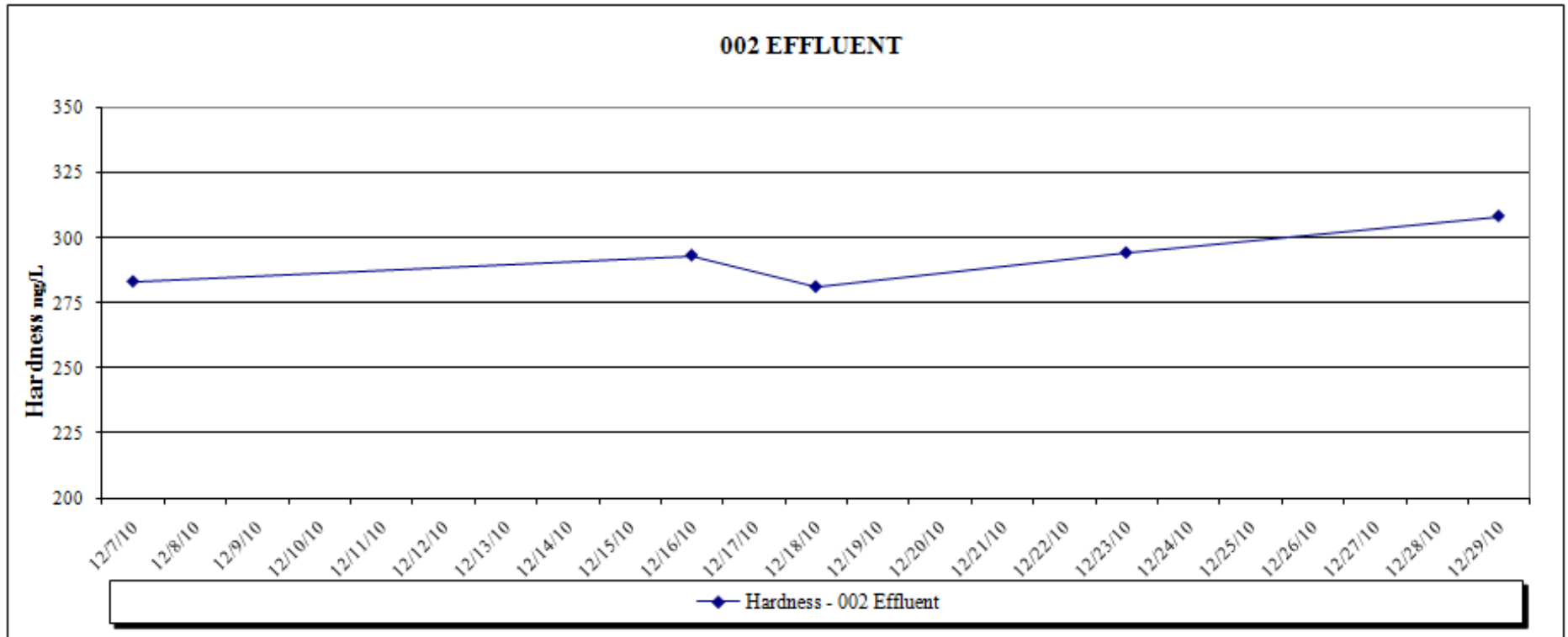


Figure 11c: Outfall 002 Effluent Monitoring Results 2010, Other Parameters

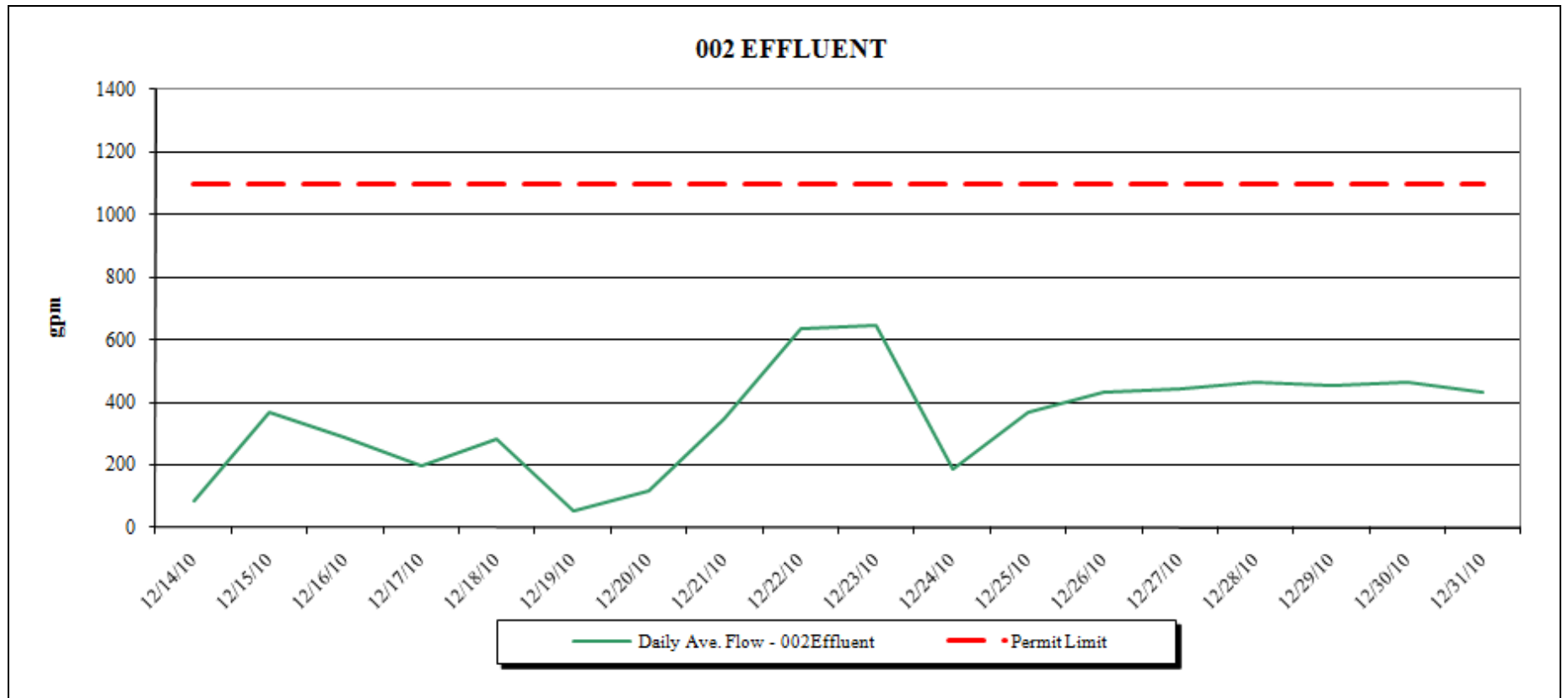


Figure 11d: Outfall 002 Effluent Monitoring Results 2010, Other Parameters

