Tables 1-16

Table 1: 2011 Non-detect Parameters at Sherman, Slate and Johnson Creek Stations

SHERMAN CREEK

SH109			SH113			SH105		
Parameter	PQL	Units	Parameter	PQL	Units	Parameter	PQL	Units
Ammonia	<0.10	mg/L	D-Arsenic	<2.5	ug/L	TSS	<4.0	mg/L
TSS	<4.0	mg/L	D-Cadmium	<0.1	ug/L	D-Arsenic	<2.5	ug/L
D-Arsenic	<2.5	ug/L	D-Lead	<0.16	ug/L	D-Cadmium	<0.1	ug/L
D-Cadmium	<0.1	ug/L	D-Silver	<0.1	ug/L	D-Chromium	<2.5	ug/L
D-Chromium	<2.5	ug/L				D-Nickel	<1	ug/L
D-Iron	<0.05	mg/L				D-Lead	<0.16	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						

SLATE CREEK

MLA			SLB			SLC			SMP-5 (Site #5)		
Parameter	PQL	Units	Parameter	PQL	Units	Parameter	PQL	Units	Parameter	PQL	Units
D-Arsenic	<2.5	ug/L	TSS	<4.0	mg/L	TSS	<4.0	mg/L	D-Arsenic	<2.5	ug/L
D-Cadmium	<0.1	ug/L	D-Arsenic	<2.5	ug/L	D-Arsenic	<2.5	ug/L	D-Chromium	<2.5	ug/L
D-Chromium	<2.5	ug/L	D-Chromium	<2.5	ug/L	D-Cadmium	<0.1	ug/L	D-Lead	<0.16	ug/L
D-Copper	<1	ug/L	D-Lead	<0.16	ug/L	D-Chromium	<2.5	ug/L	D-Silver	<0.1	ug/L
D-Lead	<0.16	ug/L	D-Selenium	<1	ug/L	D-Lead	<0.16	ug/L			
D-Nickel	<1	ug/L	D-Silver	<0.1	ug/L	D-Selenium	<1	ug/L			
D-Selenium	<1	ug/L				D-Silver	<0.1	ug/L			

JOHNSON CREEK

JS-2			JS-5			JS-4		
Parameter	PQL	Units	Parameter	PQL	Units	Parameter	PQL	Units
Ammonia	<0.1	mg/L	Ammonia	<0.1	mg/L	Ammonia	<0.1	mg/L
D-Arsenic	<2.5	ug/L	TSS	<4.0	mg/L	TSS	<4.0	mg/L
D-Cadmium	<0.1	ug/L	D-Arsenic	<2.5	ug/L	D-Arsenic	<2.5	ug/L
D-Chromium	<2.5	ug/L	D-Cadmium	<0.1	ug/L	D-Cadmium	<0.1	ug/L
D-Copper	<1	ug/L	D-Chromium	<2.5	ug/L	D-Chromium	<2.5	ug/L
D-Iron	<0.05	mg/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-Lead	<0.16	ug/L
D-Mercury	<0.001	ug/L	D-Nickel	<1	ug/L	D-Nickel	<1	ug/L
D-Nickel	<1	ug/L	D-Selenium	<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-Silver	<0.1	ug/L						

Table 2: 2011 Non-detect Parameters at Ophir Creek and Outfall 001 & 002 Stations

OPHIR CREEK

SH111

Parameter	PQL	Units
Ammonia	<0.1	mg/L
Color	<5.0	mg/L
TSS	<5	mg/L
D-Arsenic	<2.5	ug/L
D-Cadmium	<0.1	ug/L
D-Chromium	<2.5	ug/L
D-Iron	<0.05	mg/L
D-Lead	<0.16	ug/L
D-Manganese	<1	ug/L
D-Mercury	<0.001	ug/L
D-Nickel	<1	ug/L
D-Selenium	<1	ug/L
D-Silver	<0.1	ug/L
D-Zinc	<2.5	ug/L

SH103

Parameter	PQL	Units
Ammonia	<0.1	mg/L
TSS	<5	mg/L
D-Arsenic	<2.5	ug/L
D-Cadmium	<0.1	ug/L
D-Chromium	<2.5	ug/L
D-Iron	<0.05	mg/L
D-Lead	<0.16	ug/L
D-Nickel	<1	ug/L
D-Selenium	<1	ug/L
D-Silver	<0.1	ug/L

OUTFALL 001

001 Effluent

Parameter	PQL	Units
TR-Arsenic	<2.5	ug/L
TR-Cadmium	<0.1	ug/L

OUTFALL 002

002 Effluent

Parameter	PQL	Units
Arsenic	<2.5	ug/L
Chromium	<2.5	ug/L
TR-Copper	<1	ug/L
TR-Cadmium	<0.1	ug/L
TR-Silver	<0.1	ug/L

Parameter	PQL	Units
TR-Lead	<0.16	ug/L
TR-Selenium	<1	ug/L
TR-Silver	<0.1	ug/L

Table 3: Station JS2 2011 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	1.6	6.4	4.8	12	0	0.0%	4.39	1.5
Dissolved Oxygen	mg/L	5.82	14.2	8.38	12	0	0.0%	11.07	2.5
pH	pH	7.19	7.65	0.46	12	0	0.0%	7.46	0.1
Conductivity	umhos/cm	31.3	64.1	32.8	12	0	0.0%	40.44	9.9
Turbidity	NTU	0.1	0.42	0.32	12	0	0.0%	0.21	0.1
Nitrate as N	mg/L	<0.05	0.544	0.544	12	1	8.3%	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	1.16	4.8	3.64	12	0	0.0%	1.76	1.0
Chloride	mg/L	<1	1.2	1.2	12	9	75.0%	0.28	0.1
Total Dissolved Solids	mg/L	<10	46	46	12	2	16.7%	27.08	12.4
Total Suspended Solids	mg/L	<4	4	4	12	11	91.7%	0.33	0.0
Hardness, Total	mg/L	12.7	23.9	11.2	12	0	0.0%	16.03	3.1
Dissolved Aluminum	ug/L	1.3	8.4	7.1	12	0	0.0%	3.55	1.9
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	0	12	12	100.0%	0.00	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	3.5	3.5	12	4	33.3%	1.18	0.8
Mercury Dissolved	ug/L	<0.001	<0.001	0	12	12	100.0%	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	3.8	3.8	12	10	83.3%	0.56	0.4
Color	color unit	<5	5	5	12	10	83.3%	0.83	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 4: Station JS5 2011 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	0.2	7.7	7.5	12	0	0.0%	4.23	2.4
Dissolved Oxygen	mg/L	8.62	15.01	6.39	12	0	0.0%	12.07	1.8
pH	pH	7.3	7.98	0.68	12	0	0.0%	7.78	0.2
Conductivity	umhos/cm	36.5	117.1	80.6	12	0	0.0%	74.53	27.6
Turbidity	NTU	0.12	2.37	2.25	12	0	0.0%	0.49	0.6
Nitrate as N	mg/L	0.056	0.498	0.442	12	0	0.0%	0.29	0.1
Ammonia as N	mg/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Sulfate	mg/L	2.46	9.6	7.14	12	0	0.0%	5.97	2.5
Chloride	mg/L	<1	2.3	2.3	12	8	66.7%	0.57	0.4
Total Dissolved Solids	mg/L	12	67	55	12	0	0.0%	47.58	15.7
Total Suspended Solids	mg/L	<4	<4	0	12	12	100.0%	0.00	0.0
Hardness, Total	mg/L	17	47	30	12	0	0.0%	31.42	10.2
Dissolved Aluminum	ug/L	3.7	27.5	23.8	12	0	0.0%	9.86	6.6
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	1.2	1.2	12	10	83.3%	0.19	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	5.4	5.4	12	1	8.3%	2.34	1.3
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	6.7	6.7	12	9	75.0%	1.24	1.4
Color	color unit	<5	15	15	12	5	41.7%	5.42	4.0

*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 JS4 2011 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	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	2.5	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 6: Station MLA 2011 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	15.3	15	12	0	0.0%	5.31	5.3
Dissolved Oxygen	mg/L	7.04	13.36	6.32	11	0	0.0%	10.57	2.4
pH	pH	7.22	8.03	0.81	12	0	0.0%	7.55	0.2
Conductivity	umhos/cm	74.2	179.5	105.3	12	0	0.0%	105.42	29.3
Turbidity	NTU	0.31	1.1	0.79	12	0	0.0%	0.64	0.3
Nitrate as N	mg/L	<0.05	<0.1	0	12	11	91.7%	0.00	0.0
Ammonia as N	mg/L	<0.1	0.18	0.18	12	11	91.7%	0.02	0.0
Sulfate	mg/L	1.87	3.14	1.27	12	0	0.0%	2.52	0.4
Chloride	mg/L	1.4	3.7	2.3	12	0	0.0%	2.20	0.7
Total Dissolved Solids	mg/L	30	169	139	12	0	0.0%	74.00	41.7
Total Suspended Solids	mg/L	<4	4	0	12	11	91.7%	0.33	0.0
Hardness, Total	mg/L	31.7	77.2	45.5	12	0	0.0%	51.15	13.2
Dissolved Aluminum	ug/L	19.6	118	98.4	12	0	0.0%	67.45	29.6
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	0	12	12	100.0%	0.00	0.0
Dissolved Iron	mg/L	<0.05	0.199	0.199	12	2	16.7%	0.12	0.1
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	10.5	40.7	30.2	12	0	0.0%	22.13	8.9
Mercury Dissolved	ug/L	<0.001	0.0039	0.0039	12	2	16.7%	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	11	91.7%	0.01	0.0
Dissolved Zinc	ug/L	<2.5	2.8	2.8	12	10	83.3%	0.45	0.1
Color	color unit	15	125	110	12	0	0.0%	60.83	32.4

*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 7: Station SMP-5 2011 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	2.4	11.4	9	5	0	0.0%	6.88	3.9
Dissolved Oxygen	mg/L	8.6	11.08	2.48	5	0	0.0%	10.21	1.0
pH	pH	7.63	7.88	0.25	5	0	0.0%	7.75	0.1
Conductivity	umhos/cm	37.3	508	470.7	5	0	0.0%	305.66	187.1
Turbidity	NTU	0.54	1.91	1.37	8	0	0.0%	1.05	0.5
Nitrate as N	mg/L	0.18	1.32	1.14	8	0	0.0%	0.61	0.4
Ammonia as N	mg/L	0.13	0.93	0.8	8	0	0.0%	0.41	0.3
Sulfate	mg/L	23.5	255	231.5	8	0	0.0%	139.69	85.9
Chloride	mg/L	3.4	17.5	14.1	8	0	0.0%	9.16	4.4
Total Dissolved Solids	mg/L	124	484	360	8	0	0.0%	303.38	134.6
Total Suspended Solids	mg/L	<4	5.2	5.2	8	7	87.5%	0.65	0.4
Hardness, Total	mg/L	84.9	293	208.1	8	0	0.0%	187.36	77.1
Dissolved Aluminum	ug/L	4	102	98	8	0	0.0%	42.81	34.2
Dissolved Arsenic	ug/L	<2.5	<2.5	0	8	8	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	0.2	0.2	8	6	75.0%	0.04	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	8	8	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	3.1	3.1	8	4	50.0%	0.90	0.7
Dissolved Iron	mg/L	<0.05	0.14	0.14	8	3	37.5%	0.08	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	8	8	100.0%	0.00	0.0
Dissolved Manganese	ug/L	58.1	334	275.9	8	0	0.0%	136.00	91.7
Mercury Dissolved	ug/L	<0.001	0.0654	0.0654	8	3	37.5%	0.01	0.0
Dissolved Nickel	ug/L	<1	4.4	4.4	8	2	25.0%	1.70	1.4
Dissolved Selenium	ug/L	<1	<1	0	8	8	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	8	8	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	12	12	8	2	25.0%	5.50	3.8
Color	color unit	<5	100	100	8	1	12.5%	41.88	31.6

*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 8: Station SLB 2011 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	0.7	14.6	13.9	12	0	0.0%	5.95	5.0
Dissolved Oxygen	mg/L	8.67	14.95	6.28	11	0	0.0%	11.71	2.1
pH	pH	7.96	8.31	0.35	12	0	0.0%	8.15	0.1
Conductivity	umhos/cm	73	717	644	12	0	0.0%	433.42	180.1
Turbidity	NTU	0.22	1.28	1.06	12	0	0.0%	0.60	0.3
Nitrate as N	mg/L	<0.05	1.46	1.46	12	1	8.3%	0.63	0.4
Ammonia as N	mg/L	<0.1	0.95	0.95	12	1	8.3%	0.34	0.2
Sulfate	mg/L	2.65	252	249.35	12	0	0.0%	125.42	67.8
Chloride	mg/L	1.4	11.5	10.1	12	0	0.0%	7.81	2.6
Total Dissolved Solids	mg/L	36	494	458	12	0	0.0%	272.08	127.5
Total Suspended Solids	mg/L	<4	<4	0	12	12	100.0%	0.00	0.0
Hardness, Total	mg/L	36.9	294	257.1	12	0	0.0%	170.41	70.1
Dissolved Aluminum	ug/L	8.7	145	136.3	12	0	0.0%	39.65	37.1
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	0.1	12	10	83.3%	0.02	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%	0.35	0.2
Dissolved Iron	mg/L	<0.05	0.169	0.169	12	6	50.0%	0.05	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	1.4	153	151.6	12	0	0.0%	69.60	52.0
Mercury Dissolved	ug/L	<0.001	0.0054	0.0054	12	6	50.0%	0.00	0.0
Dissolved Nickel	ug/L	<1	2.1	2.1	12	7	58.3%	0.67	0.4
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	3	7.9	4.9	12	0	0.0%	5.27	1.6
Color	color unit	<5	150	150	12	1	8.3%	37.08	39.9

*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 9: Station SLC 2011 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	11.7	11.3	12	0	0.0%	4.89	4.2
Dissolved Oxygen	mg/L	8.89	15.22	6.33	11	0	0.0%	12.12	2.1
pH	pH	7.87	8.22	0.35	12	0	0.0%	8.05	0.1
Conductivity	umhos/cm	70.4	501	430.6	12	0	0.0%	268.46	111.9
Turbidity	NTU	0.18	1.09	0.91	12	0	0.0%	0.39	0.3
Nitrate as N	mg/L	<0.05	0.77	0.77	12	1	8.3%	0.28	0.2
Ammonia as N	mg/L	<0.1	0.55	0.55	12	3	25.0%	0.16	0.1
Sulfate	mg/L	2.93	145	142.07	12	0	0.0%	60.04	37.4
Chloride	mg/L	2.2	9.7	7.5	12	0	0.0%	6.29	2.1
Total Dissolved Solids	mg/L	32	304	272	12	0	0.0%	158.58	68.5
Total Suspended Solids	mg/L	<4	<4	0	12	12	100.0%	0.00	0.0
Hardness, Total	mg/L	33.4	202	168.6	12	0	0.0%	106.60	43.7
Dissolved Aluminum	ug/L	10.3	121	110.7	12	0	0.0%	36.79	28.4
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	1.4	1.4	12	11	91.7%	0.12	0.1
Dissolved Iron	mg/L	<0.05	0.117	0.117	12	9	75.0%	0.02	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	12	12	100.0%	0.00	0.0
Dissolved Manganese	ug/L	<1	94.2	94.2	12	1	8.3%	35.93	30.1
Mercury Dissolved	ug/L	<0.001	0.0042	0.0042	12	3	25.0%	0.00	0.0
Dissolved Nickel	ug/L	<1	1.3	1.3	12	9	75.0%	0.29	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	6.2	6.2	12	4	33.3%	2.68	1.2
Color	color unit	<5	100	100	12	1	8.3%	30.42	24.7

*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 2011 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	8.5	8.6	12	0	0.0%	3.58	3.3
Dissolved Oxygen	mg/L	7.07	17.13	10.06	12	0	0.0%	12.33	2.8
pH	pH	7.7	8.08	0.38	12	0	0.0%	7.90	0.1
Conductivity	umhos/cm	0	115.6	115.6	11	0	0.0%	80.87	19.6
Turbidity	NTU	0.13	1.01	0.88	12	0	0.0%	0.37	0.3
Nitrate as N	mg/L	<0.05	0.282	0.282	12	4	33.3%	0.13	0.1
Ammonia as N	mg/L	<0.1	<0.1	0	12	12	100.0%	0.00	0.0
Sulfate	mg/L	3.91	11.4	7.49	12	0	0.0%	7.11	2.4
Chloride	mg/L	<1	4.4	4.4	12	5	41.7%	1.22	1.1
Total Dissolved Solids	mg/L	<20	153	153	12	1	8.3%	58.42	37.6
Total Suspended Solids	mg/L	<4	<4	0	12	12	100.0%	0.00	0.0
Hardness, Total	mg/L	27.9	53.7	25.8	12	0	0.0%	40.97	8.0
Dissolved Aluminum	ug/L	5.4	20.9	15.5	12	0	0.0%	10.74	5.4
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	4.7	4.7	12	7	58.3%	0.87	1.1
Dissolved Iron	mg/L	<0.05	<0.05	0	12	12	100.0%	0.00	0.0
Dissolved Lead	ug/L	<0.16	0.2	0.2	12	11	91.7%	0.02	0.0
Dissolved Manganese	ug/L	<1	1.8	1.8	12	5	41.7%	0.72	0.2
Mercury Dissolved	ug/L	<0.001	0.0011	0.0011	12	10	83.3%	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	3.1	3.1	12	11	91.7%	0.26	0.2
Color	color unit	<5	15	15	12	7	58.3%	3.75	3.3

*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 2011 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	1.4	9.6	8.2	15	0	0.0%	4.89	2.8
Dissolved Oxygen	mg/L	8.17	16.59	8.42	15	0	0.0%	11.22	2.4
pH	pH	0	7.85	7.85	14	0	0.0%	7.20	0.1
Conductivity	umhos/cm	0	335	335	14	0	0.0%	176.76	81.4
Turbidity	NTU	0.17	1.52	1.35	19	0	0.0%	0.59	0.3
Nitrate as N	mg/L	0.131	1.94	1.809	19	0	0.0%	0.71	0.5
Ammonia as N	mg/L	<0.1	1.12	1.12	19	3	15.8%	0.28	0.3
Sulfate	mg/L	10.4	59.8	49.4	19	0	0.0%	29.97	15.4
Chloride	mg/L	3.6	18.7	15.1	19	0	0.0%	9.15	3.9
Total Dissolved Solids	mg/L	49	206	157	19	0	0.0%	115.47	38.9
Total Suspended Solids	mg/L	<4	23.2	23.2	19	17	89.5%	1.47	4.4
Hardness, Total	mg/L	35.5	139	103.5	19	0	0.0%	81.37	29.0
Dissolved Aluminum	ug/L	3.6	35.9	32.3	19	0	0.0%	10.75	7.8
Dissolved Arsenic	ug/L	<2.5	<2.5	0	19	19	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	19	19	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	2.7	2.7	18	17	94.4%	0.15	0.0
Dissolved Copper	ug/L	<1	1.9	1.9	19	14	73.7%	0.35	0.2
Dissolved Iron	mg/L	<0.05	0.075	0.075	19	18	94.7%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	19	19	100.0%	0.00	0.0
Dissolved Manganese	ug/L	5.6	143	137.4	19	0	0.0%	51.74	37.9
Mercury Dissolved	ug/L	<0.001	0.0018	0.0018	19	13	68.4%	0.00	0.0
Dissolved Nickel	ug/L	<1	1.6	1.6	19	17	89.5%	0.16	0.2
Dissolved Selenium	ug/L	<1	1	1	19	18	94.7%	0.05	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	19	19	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	4.9	4.9	19	14	73.7%	0.94	0.7
Color	color unit	<5	20	20	19	9	47.4%	4.47	4.2

*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 2011 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	-0.2	9	9.2	12	0	0.0%	4.08	3.5
Dissolved Oxygen	mg/L	9.08	17.13	8.05	12	0	0.0%	12.59	2.3
pH	pH	6.78	8.02	1.24	12	0	0.0%	7.77	0.3
Conductivity	umhos/cm	76.5	252	175.5	12	0	0.0%	132.87	55.8
Turbidity	NTU	0.14	1.21	1.07	12	0	0.0%	0.44	0.3
Nitrate as N	mg/L	0.101	1.24	1.139	12	0	0.0%	0.41	0.3
Ammonia as N	mg/L	<0.1	0.17	0.17	12	11	91.7%	0.01	0.0
Sulfate	mg/L	8.01	40.1	32.09	12	0	0.0%	17.03	10.0
Chloride	mg/L	2.1	16.7	14.6	12	0	0.0%	6.28	4.3
Total Dissolved Solids	mg/L	37	124	87	12	0	0.0%	77.83	31.7
Total Suspended Solids	mg/L	<4	<4	0	12	12	100.0%	0.00	0.0
Hardness, Total	mg/L	33.2	102	68.8	12	0	0.0%	54.16	21.4
Dissolved Aluminum	ug/L	5.8	65.2	59.4	12	0	0.0%	20.87	16.7
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	2.1	2.1	12	7	58.3%	0.53	0.3
Dissolved Iron	mg/L	<0.05	0.072	0.072	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	2.9	22	19.1	12	0	0.0%	8.13	5.1
Mercury Dissolved	ug/L	<0.001	0.0041	0.0041	12	7	58.3%	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	4.7	4.7	12	4	33.3%	2.36	0.9
Color	color unit	<5	40	40	12	4	33.3%	11.25	10.8

*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 13: Station SH111 2011 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	4.7	11	6.3	3	0	0.0%	7.57	3.2
Dissolved Oxygen	mg/L	9.42	11.29	1.87	3	0	0.0%	10.26	0.9
pH	pH	7.35	7.95	0.6	3	0	0.0%	7.70	0.3
Conductivity	umhos/cm	44.7	53.3	8.6	3	0	0.0%	48.63	4.3
Turbidity	NTU	<0.1	0.19	0.19	4	1	25.0%	0.11	0.0
Nitrate as N	mg/L	<0.05	0.493	0.493	4	1	25.0%	0.19	0.2
Ammonia as N	mg/L	<0.1	<0.1	0	4	4	100.0%	0.00	0.0
Sulfate	mg/L	2.17	2.86	0.69	4	0	0.0%	2.46	0.3
Chloride	mg/L	<1	1.3	1.3	4	3	75.0%	0.33	0.2
Total Dissolved Solids	mg/L	22	27	5	4	0	0.0%	24.50	2.9
Total Suspended Solids	mg/L	<4	<4	0	4	4	100.0%	0.00	0.0
Hardness, Total	mg/L	20.2	25.5	5.3	4	0	0.0%	22.73	2.7
Dissolved Aluminum	ug/L	2.9	4.2	1.3	4	0	0.0%	3.75	0.6
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	0	4	4	100.0%	0.00	0.0
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	7.1	7.1	4	3	75.0%	1.78	2.3
Color	color unit	<5	<5	0	4	4	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 14: Station SH103 2011 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	4.8	8.9	4.1	5	0	0.0%	4.94	3.1
Dissolved Oxygen	mg/L	9.14	14.01	4.87	5	0	0.0%	10.09	2.6
pH	pH	7.18	7.53	0.35	5	0	0.0%	7.35	0.1
Conductivity	umhos/cm	83	558	475	5	0	0.0%	196.50	203.7
Turbidity	NTU	0.11	0.45	0.34	6	0	0.0%	0.23	0.1
Nitrate as N	mg/L	0.063	1.14	1.077	6	0	0.0%	0.47	0.4
Ammonia as N	mg/L	<0.1	<0.1	0	6	6	100.0%	0.00	0.0
Sulfate	mg/L	10.4	223	212.6	6	0	0.0%	86.05	94.8
Chloride	mg/L	<1	3.6	3.6	6	3	50.0%	1.52	1.2
Total Dissolved Solids	mg/L	28	394	366	6	0	0.0%	171.33	170.0
Total Suspended Solids	mg/L	<4	<4	0	6	6	100.0%	0.00	0.0
Hardness, Total	mg/L	32.2	263	230.8	6	0	0.0%	117.62	101.3
Dissolved Aluminum	ug/L	2.7	5.4	2.7	6	0	0.0%	3.87	0.9
Dissolved Arsenic	ug/L	<2.5	<2.5	0	6	6	100.0%	0.00	0.0
Dissolved Cadmium	ug/L	<0.1	<0.1	0	6	6	100.0%	0.00	0.0
Dissolved Chromium	ug/L	<2.5	<2.5	0	6	6	100.0%	0.00	0.0
Dissolved Copper	ug/L	<1	1.4	1.4	6	3	50.0%	0.62	0.2
Dissolved Iron	mg/L	<0.05	<0.05	0	6	6	100.0%	0.00	0.0
Dissolved Lead	ug/L	<0.16	<0.16	0	6	6	100.0%	0.00	0.0
Dissolved Manganese	ug/L	<1	3.5	3.5	6	1	16.7%	1.62	0.9
Mercury Dissolved	ug/L	<0.001	0.002	0.002	6	5	83.3%	0.00	0.0
Dissolved Nickel	ug/L	<1	<1	0	6	6	100.0%	0.00	0.0
Dissolved Selenium	ug/L	<1	<1	0	6	6	100.0%	0.00	0.0
Dissolved Silver	ug/L	<0.1	<0.1	0	6	6	100.0%	0.00	0.0
Dissolved Zinc	ug/L	<2.5	7.4	7.4	6	4	66.7%	1.83	2.0
Color	color unit	<5	10	10	6	3	50.0%	4.17	2.6

*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 15: Station CAK-001EFF (Outfall 001 Effluent) 2011 Water Quality Data Summary Statistics

Parameter	Units	Min	Max	Range (Max - Min)	Number of Samples	Number of NonDetects	Percent NonDetects	Arithmetic Mean
Temp	oC	0.8	13	12.2	62	0	0.00%	7.96
Dissolved oxygen	mg/L	6.74	16.19	9.45	62	0	0.00%	10.66
Lab Turbidity	NTU	0.17	12.4	12.23	63	0	0.00%	1.17
Ammonia as N	mg/L	<0.1	2.14	2.14	63	1	1.59%	0.85
Nitrate as N	mg/L	0.72	4.98	4.26	63	0	0.00%	1.98
Sulfate (as S)	mg/L	6.6	67.7	61.1	63	0	0.00%	12.50
Total Dissolved Solids	mg/L	187	593	406	63	0	0.00%	265.08
Total Suspended Solids	mg/L	<4.0	10.8	10.8	354	345	97.46%	0.18
Total Recoverable Aluminum	ug/L	1.7	110	108.3	63	0	0.00%	11.43
Total Recoverable Arsenic	ug/L	<2.5	<2.5	0	63	63	100.00%	0.00
Total Recoverable Cadmium	ug/L	<0.1	<0.1	0	63	63	100.00%	0.00
Total Chromium	ug/L	<2.5	7.9	7.9	63	56	88.89%	0.56
Total Recoverable Copper	ug/L	<1	11.2	11.2	63	53	84.13%	0.38
Total Recoverable Iron	mg/L	<0.05	1.41	1.41	63	8	12.70%	0.16
Total Recoverable Lead	ug/L	<0.16	0.3	0.3	63	59	93.65%	0.01
Total Recoverable Manganese	ug/L	13	482	469	63	0	0.00%	156.83
Total Recoverable Nickel	ug/L	<1	3.8	3.8	63	38	60.32%	0.71
Total Recoverable Selenium	ug/L	<1	2.3	2.3	63	1	1.59%	1.62
Total Recoverable Silver	ug/L	<0.1	0.1	0.1	63	62	98.41%	0.00
Total Recoverable Zinc	ug/L	<2.5	53.4	53.4	63	32	50.79%	2.73
Total Mercury (1631)	ug/L	<0.001	0.0032	0.0032	63	46	73.02%	0.0004
Hardness (Downstream of Outfall)	mg/L	34.1	192	157.9	63	0	0.00%	82.99

* 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: Station CAK-002EFF (Outfall 002 Effluent) 2011 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	2.5	17.1	14.6	60	0	0.00%	8.69	4.72
Lab Turbidity	NTU	0.19	4.53	4.34	63	0	0.00%	0.80	0.8
Ammonia as N	mg/L	0.29	1.12	0.83	63	0	0.00%	0.69	0.28
Nitrate as N	mg/L	0.61	1.41	0.8	63	0	0.00%	0.94	0.22
Hardness	mg/L	181	319	138	63	0	0.00%	269.21	25.9
Hardness (Downstream of Outfall)	mg/L	41.3	185	143.7	21	0	0.00%	126.43	42.6
Sulfate (as S)	mg/L	178	309	131	63	0	0.00%	230.39	24.0
Total Suspended Solids	mg/L	<4	10.8	10.8	354	344	97.18%	0.18	0.6
Total Recoverable Arsenic	mg/L	<2.5	<2.5	0	63	63	100.00%	0.00	0.00
Total Recoverable Iron	ug/L	<0.05	1.47	1.47	62	10	16.13%	0.11	0
Total Recoverable Selenium	ug/L	<1	<1	0	63	63	100.00%	0.00	0.0
Total Chromium	ug/L	<2.5	<2.5	0	63	63	100.00%	0.00	0.0
Total Recoverable Nickel	ug/L	<1	4.9	4.9	63	3	4.76%	2.00	0.86
Total Recoverable Silver	ug/L	<0.1	<0.1	0	63	63	100.00%	0.00	0.0
Total Recoverable Zinc	mg/L	<2.5	4.5	4.5	63	48	76.19%	0.77	0.42
Total Recoverable Aluminum	ug/L	1.2	29	27.8	63	0	0.00%	5.23	4.92
Total Recoverable Cadmium	ug/L	<0.1	<0.1	0	63	63	100.00%	0.00	0
Total Recoverable Lead	ug/L	<0.16	<0.16	0	63	62	98.41%	0.00	0.0
Total Recoverable Copper	ug/L	<1	1.3	1.3	63	56	88.89%	0.11	0.1
Total Recoverable Manganese	ug/L	35.5	391	355.5	63	0	0.00%	240.5823	100.1
Total Dissolved Solids	ug/L	319	520	201	63	0	0.00%	433.66	40.7
Total Mercury (1631)	ug/L	<0.001	<0.001	0	63	47	74.60%	0.00	0.0005

* 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 17: 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 Non -carcinogens

Figures 1-11

Figure 1: Project Area Map

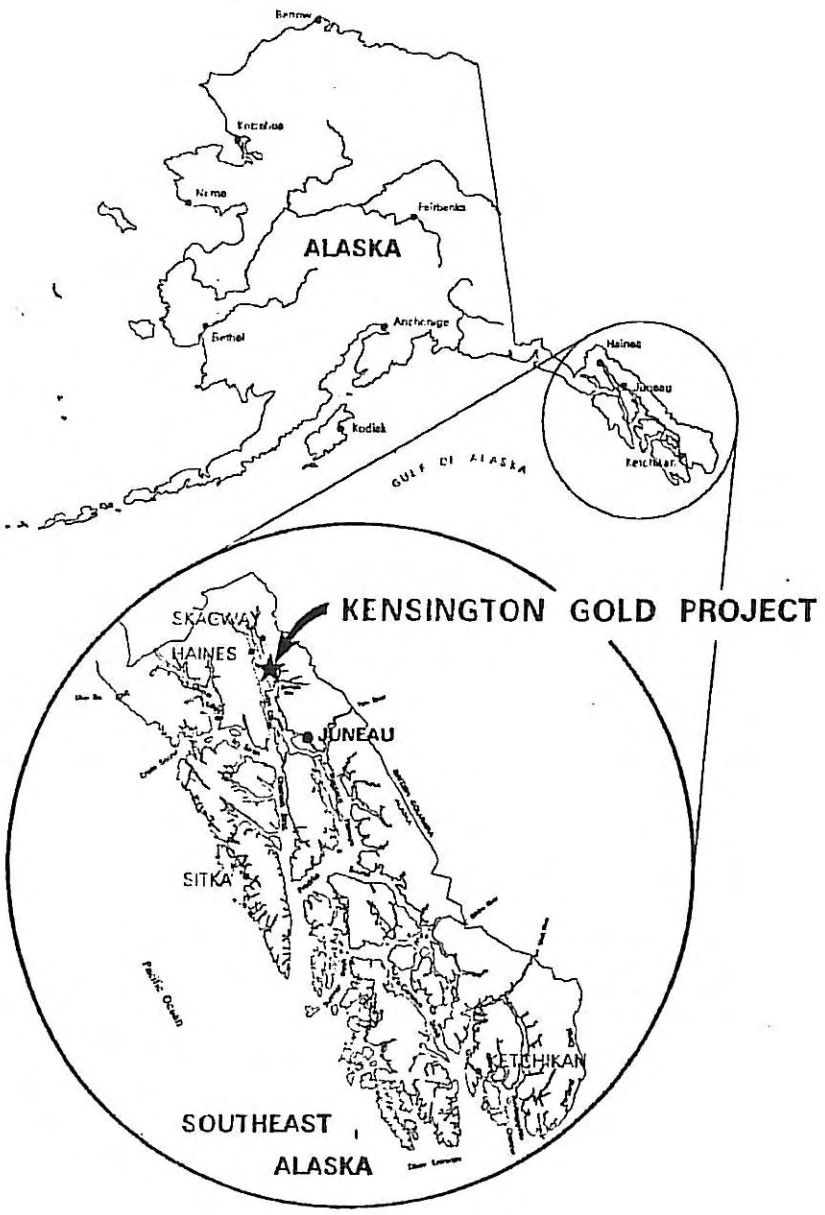


Figure 2: Location of streams and permitted outfalls near Kensington and Jualin Mines, Lynn Canal, southeast Alaska. Water quality monitoring is conducted on Sherman, Ophir, Slate and Johnson Creeks.

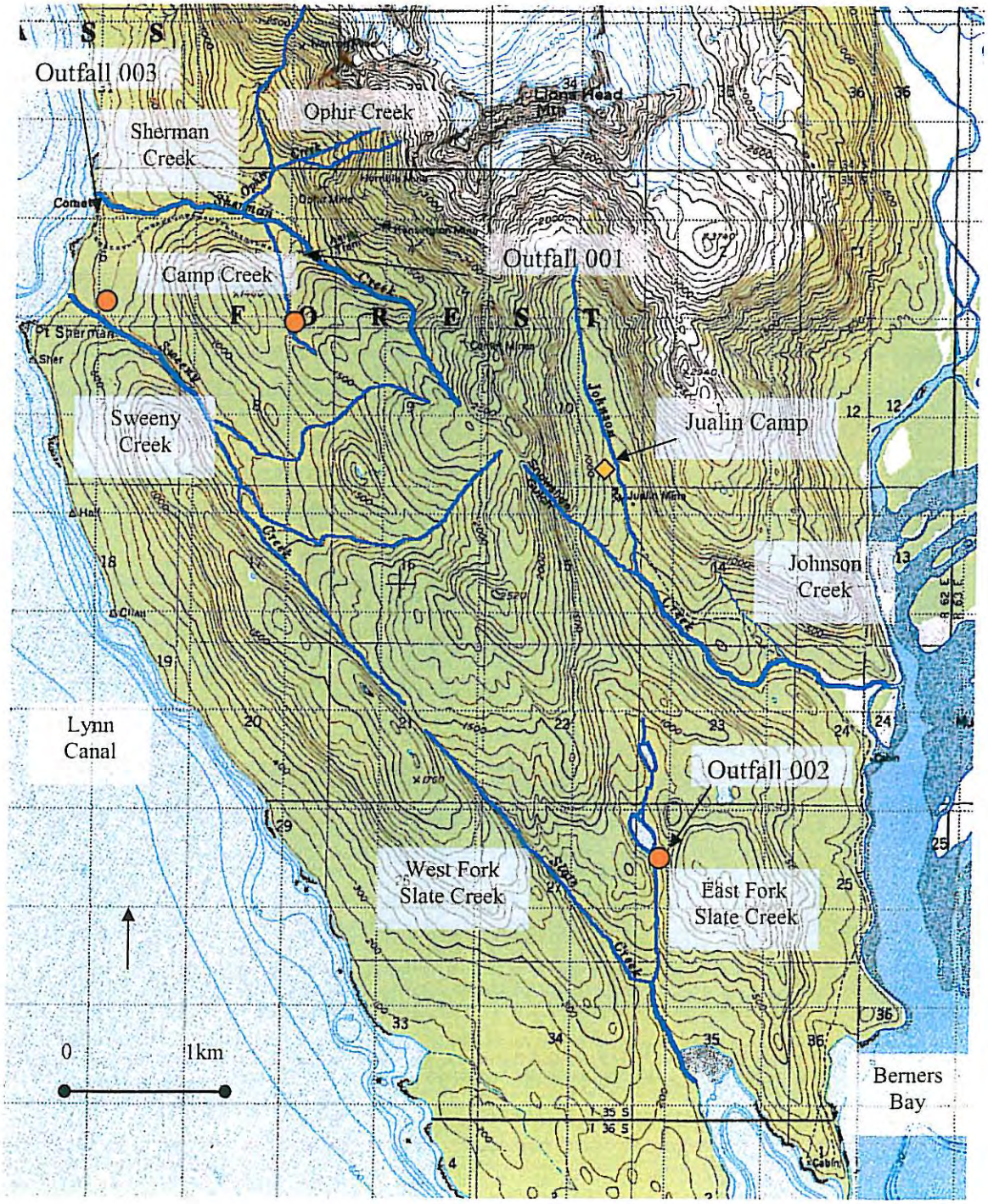


Figure 3: Water Treatment Facility Monitoring Sites.

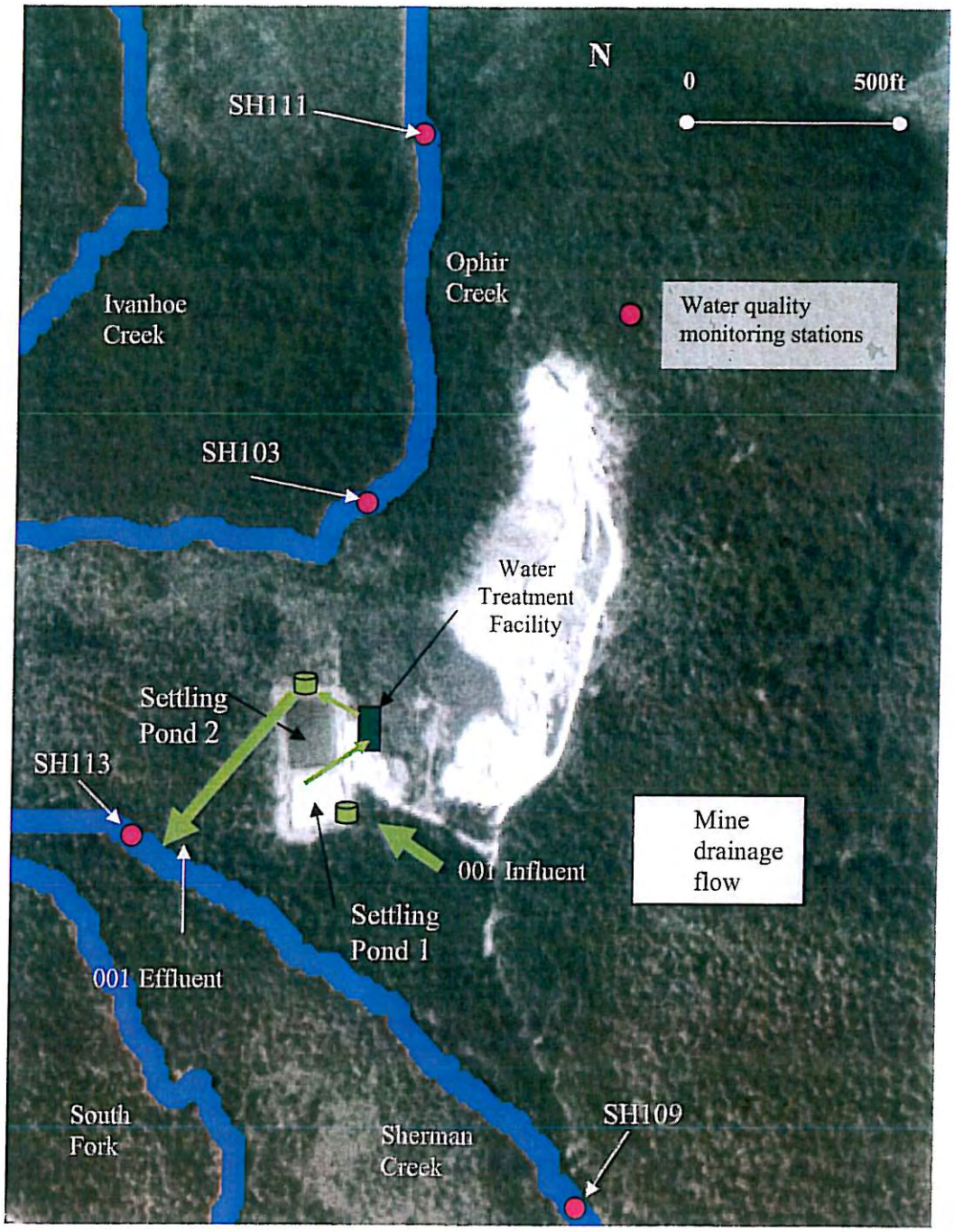


Figure 4: Location of receiving water quality monitoring stations on Sherman and Ophir Creeks.

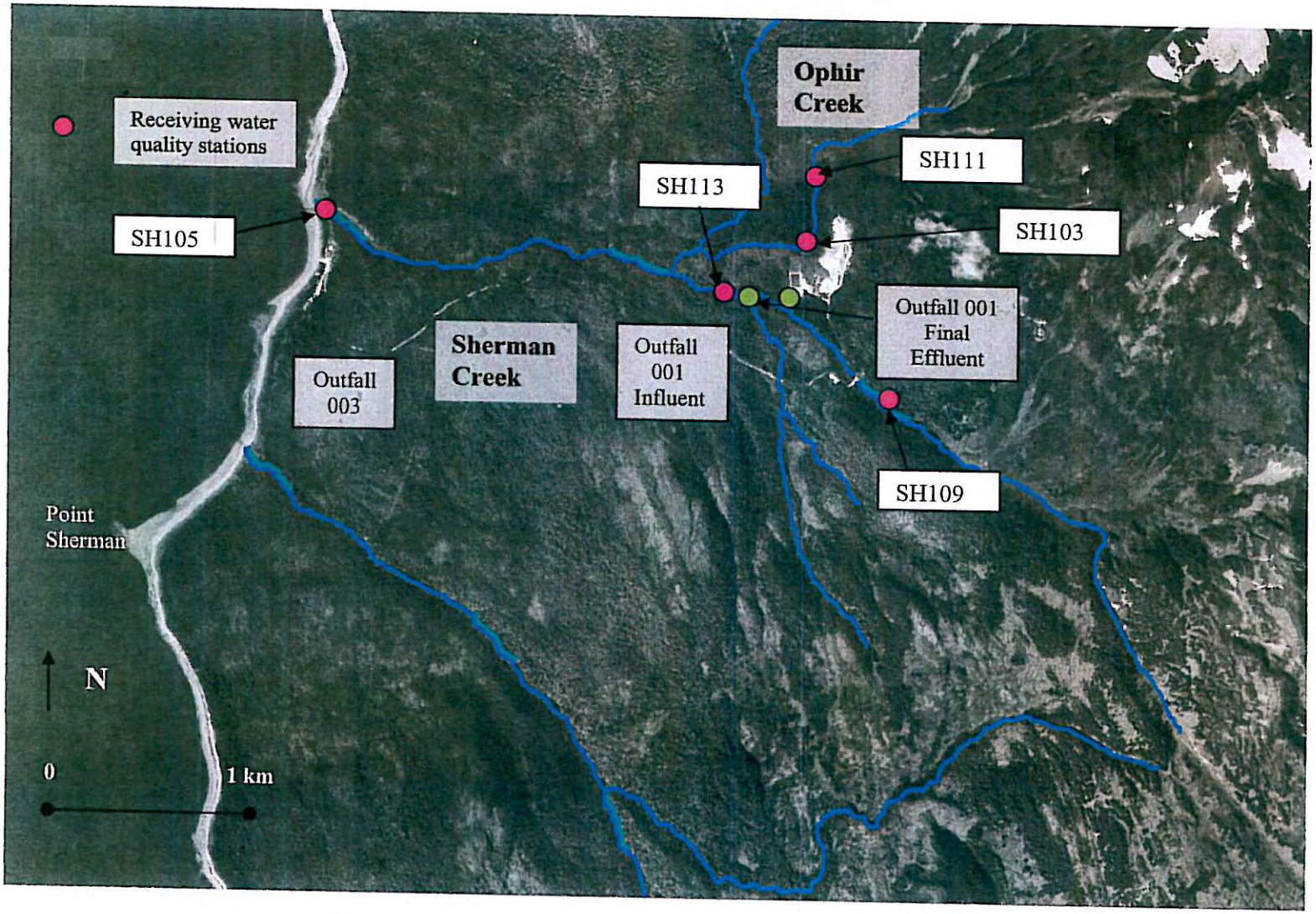


Figure 5: Locations of receiving water quality monitoring stations on Slate and Johnson Creeks.

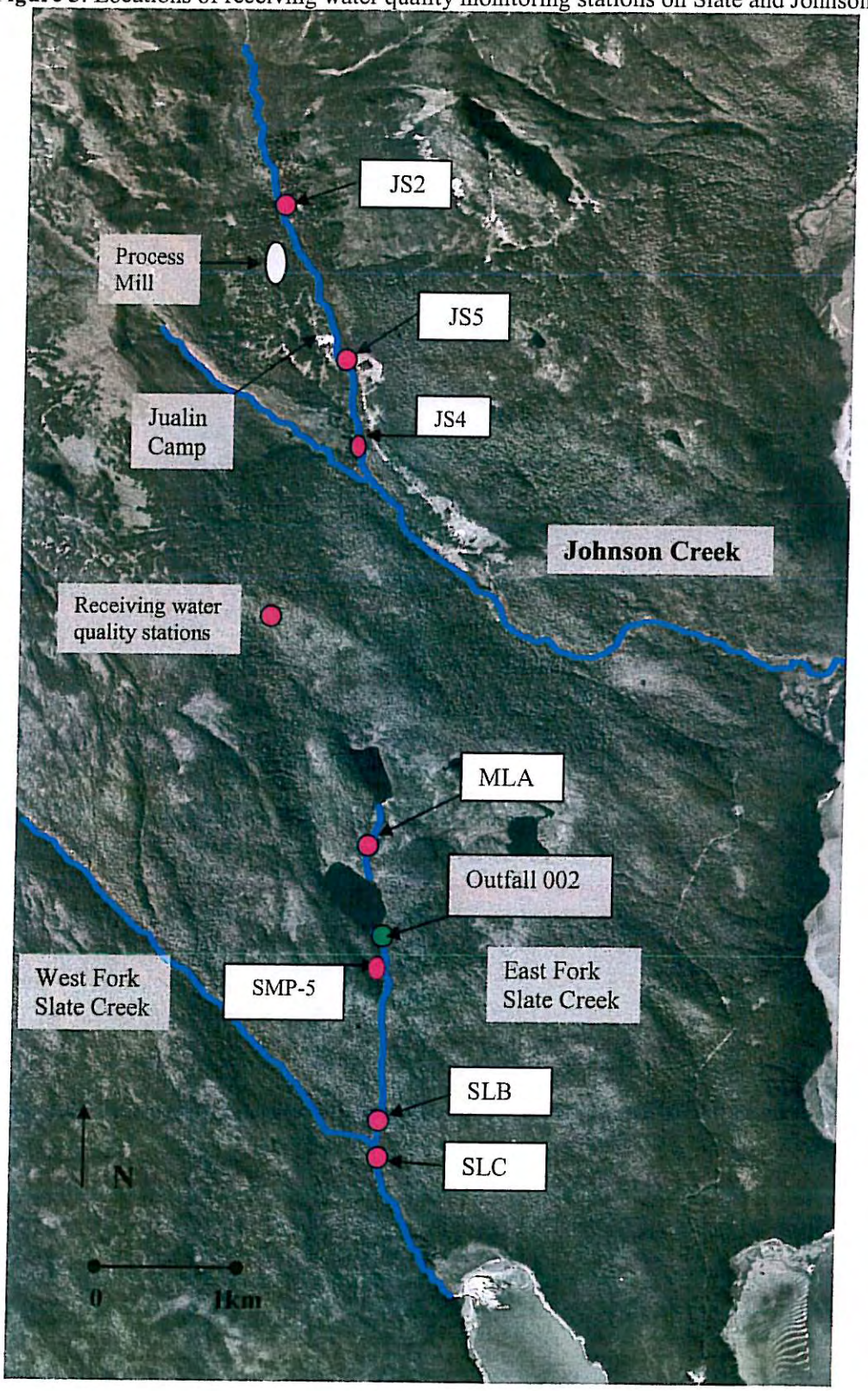
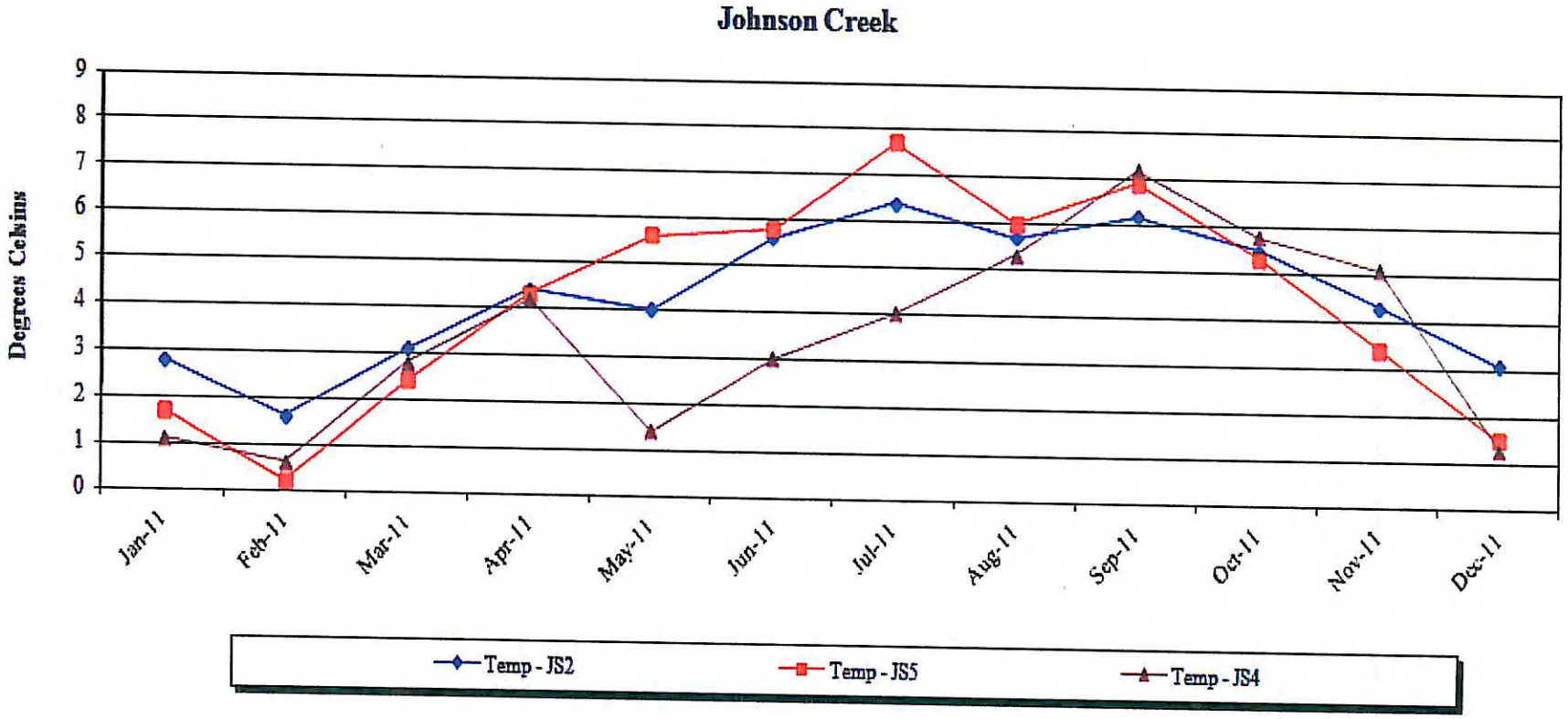


Figure 6a: Johnson Creek Monitoring Results 2011, Field Parameters



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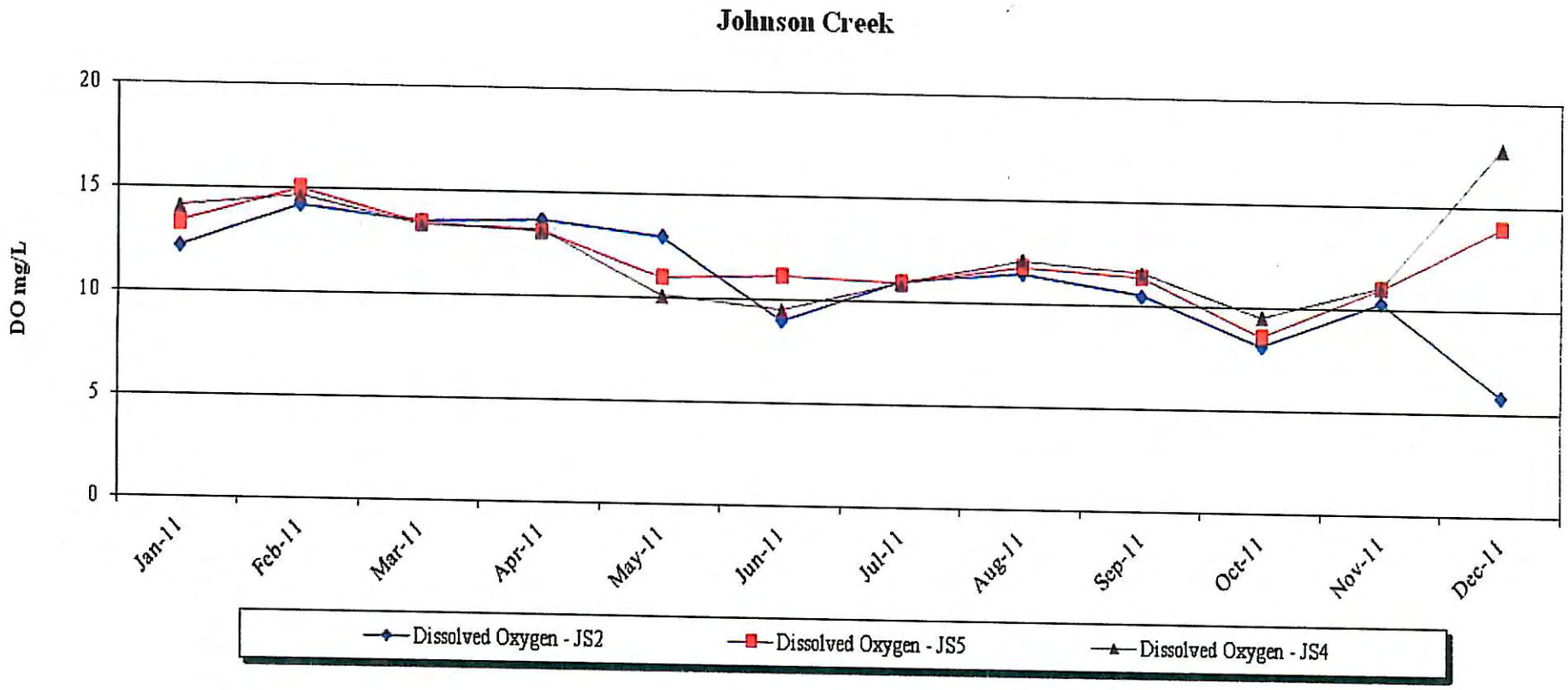

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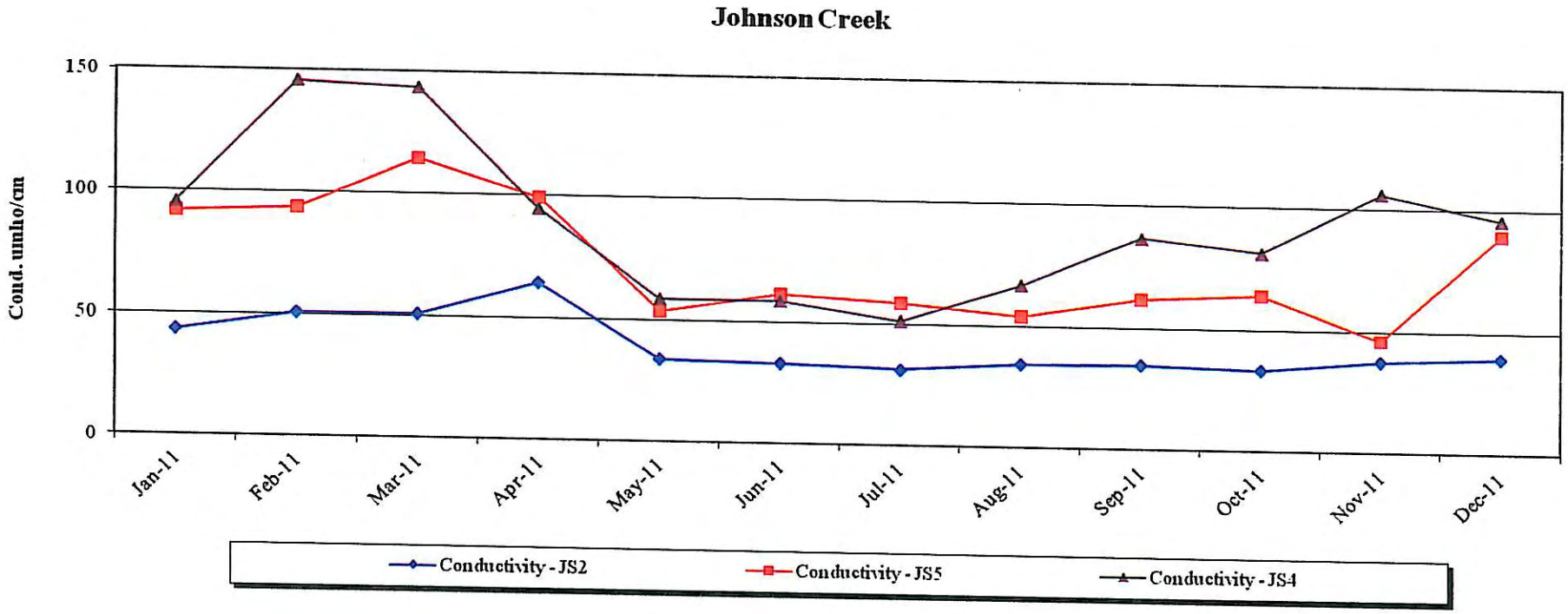

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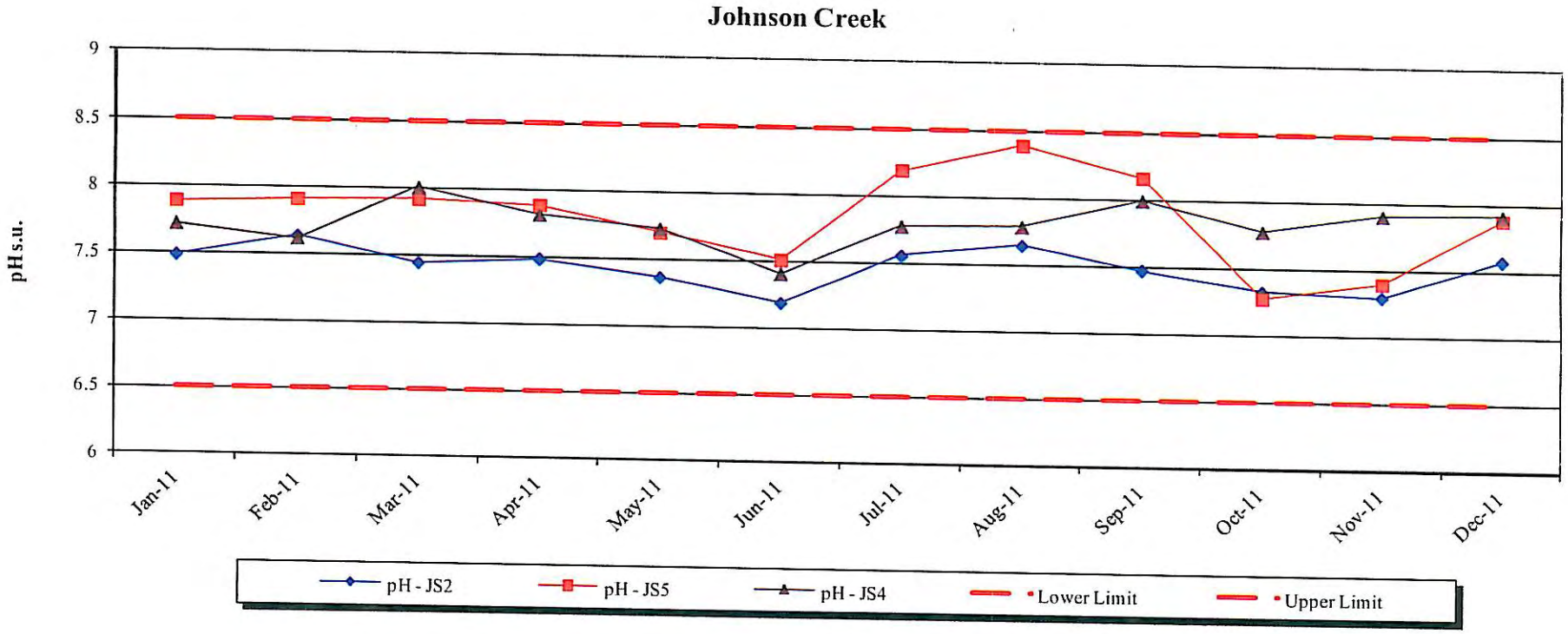
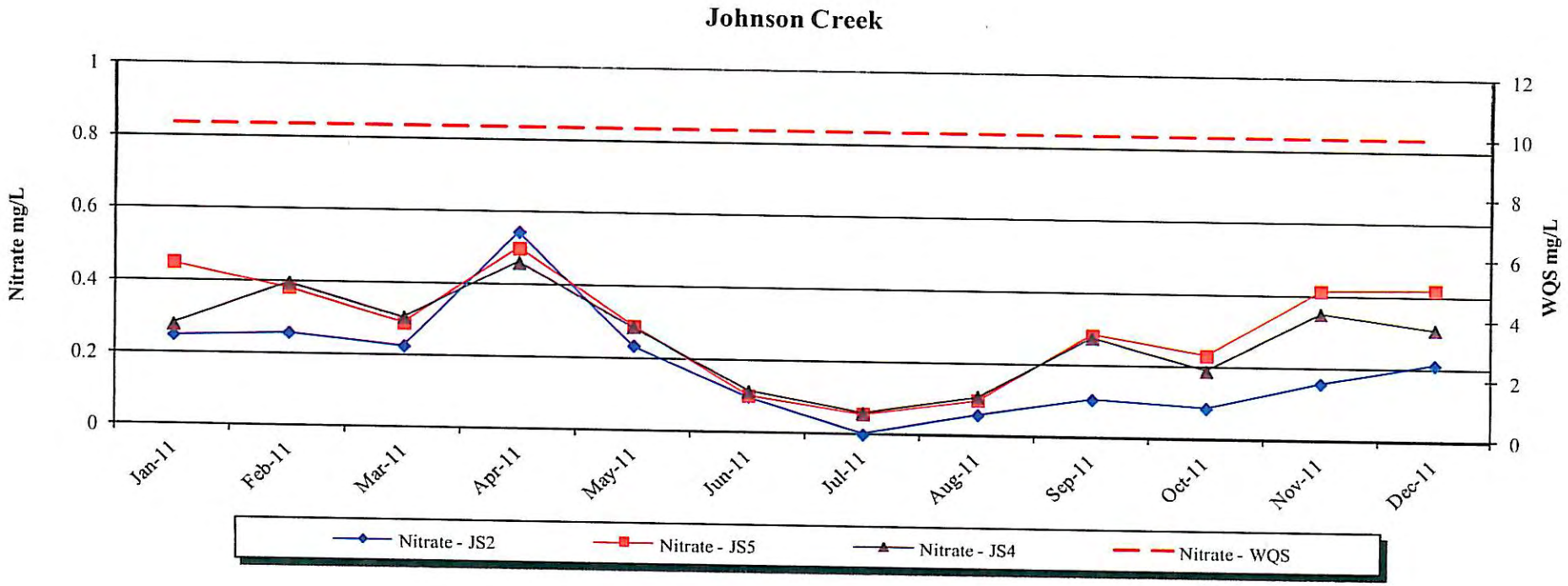


Figure 6b: Johnson Creek Monitoring Results 2011, Major Chemistry



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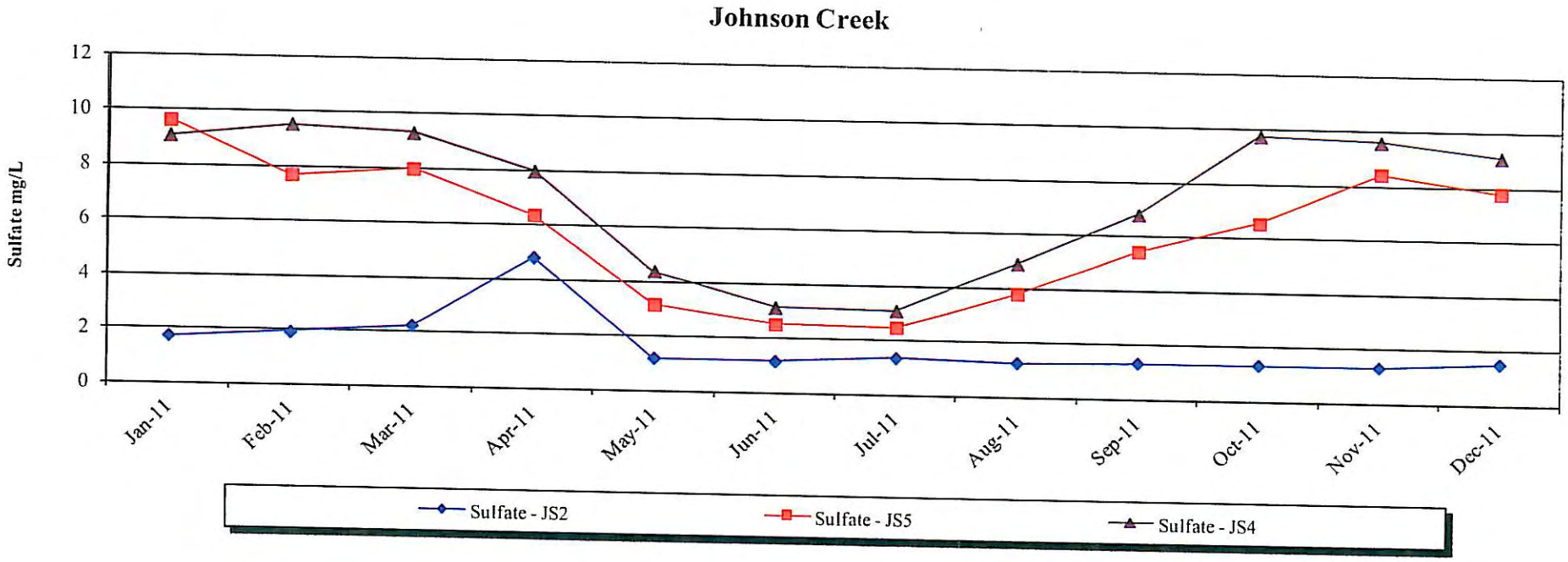

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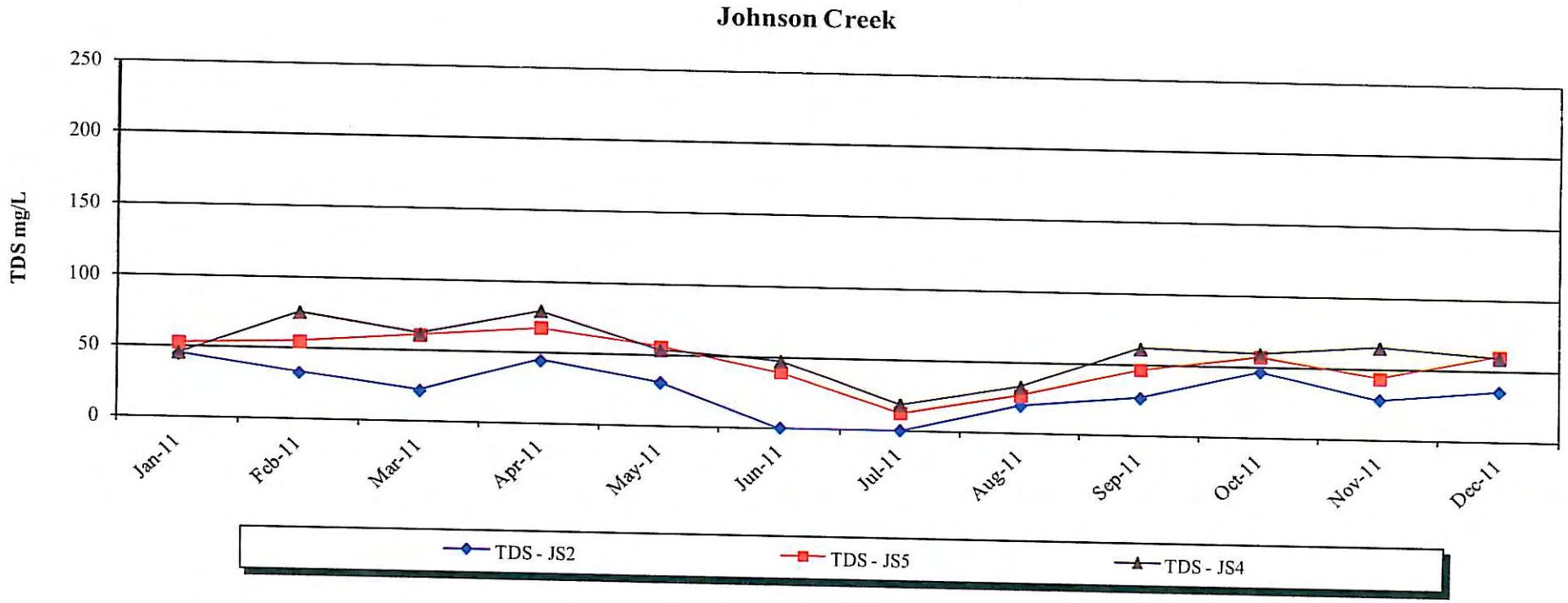

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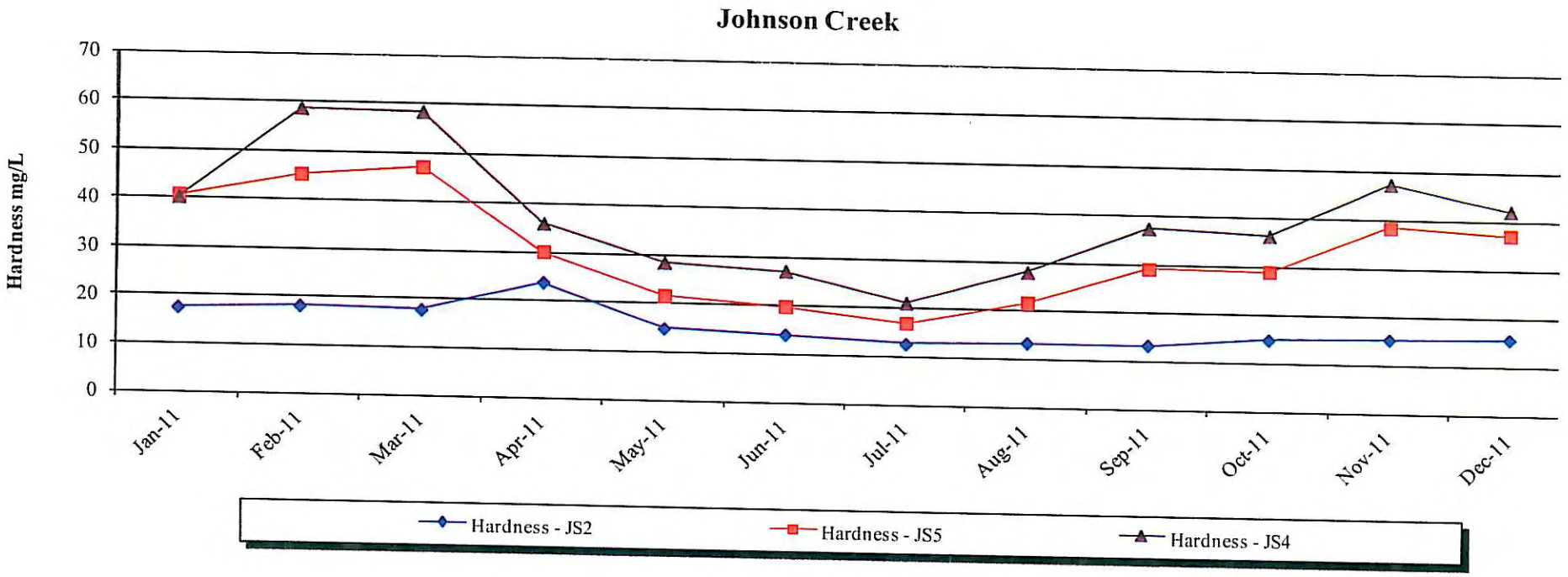

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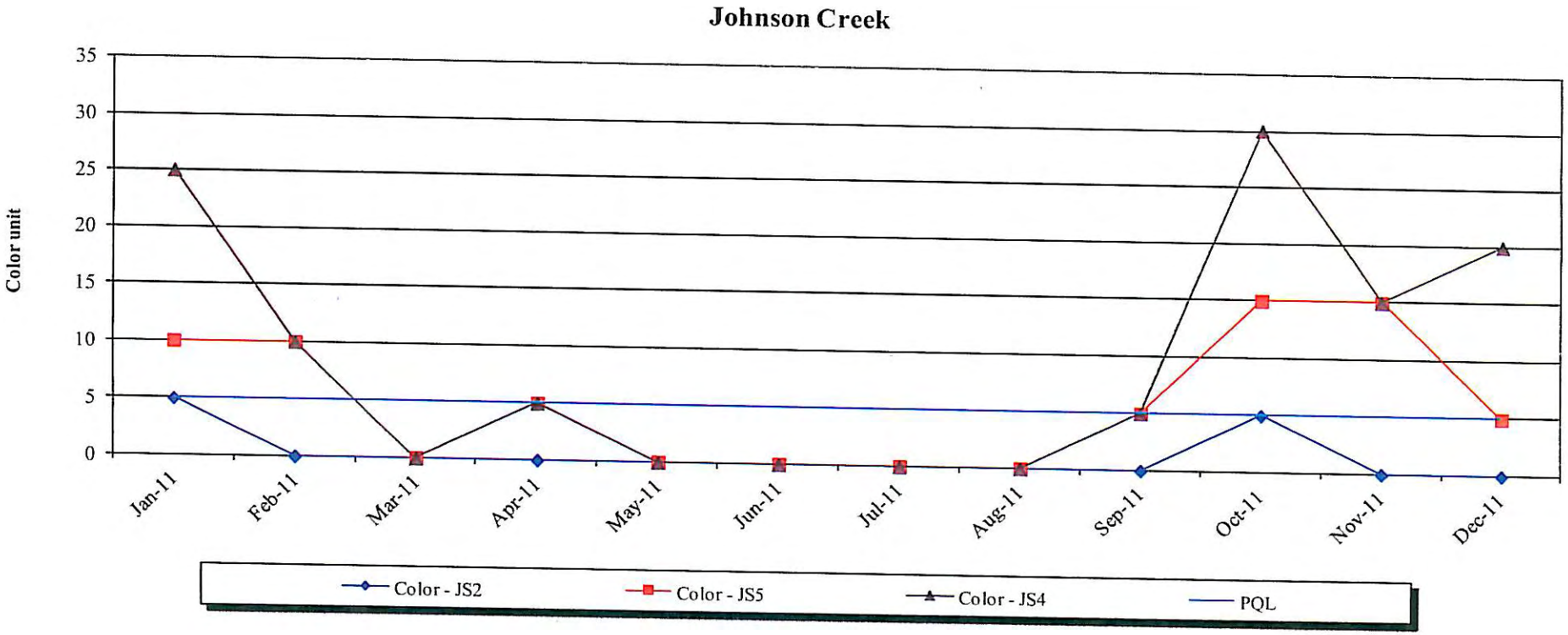

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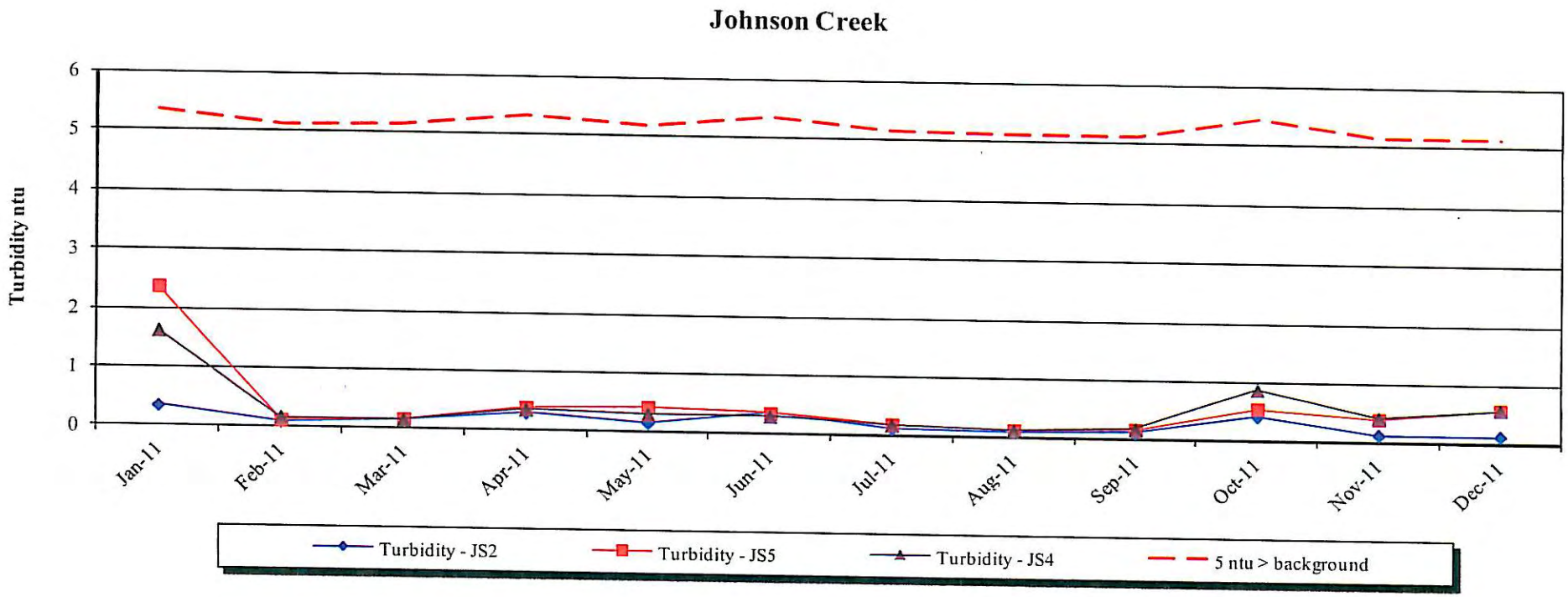

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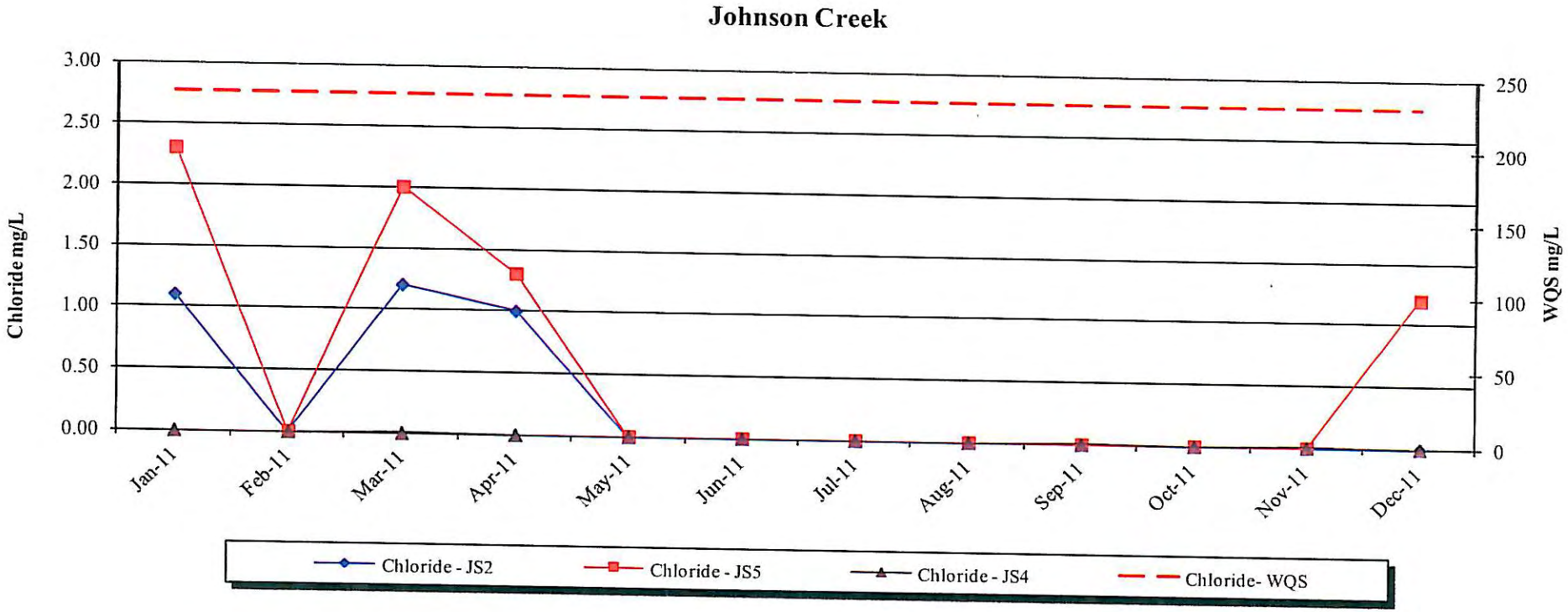

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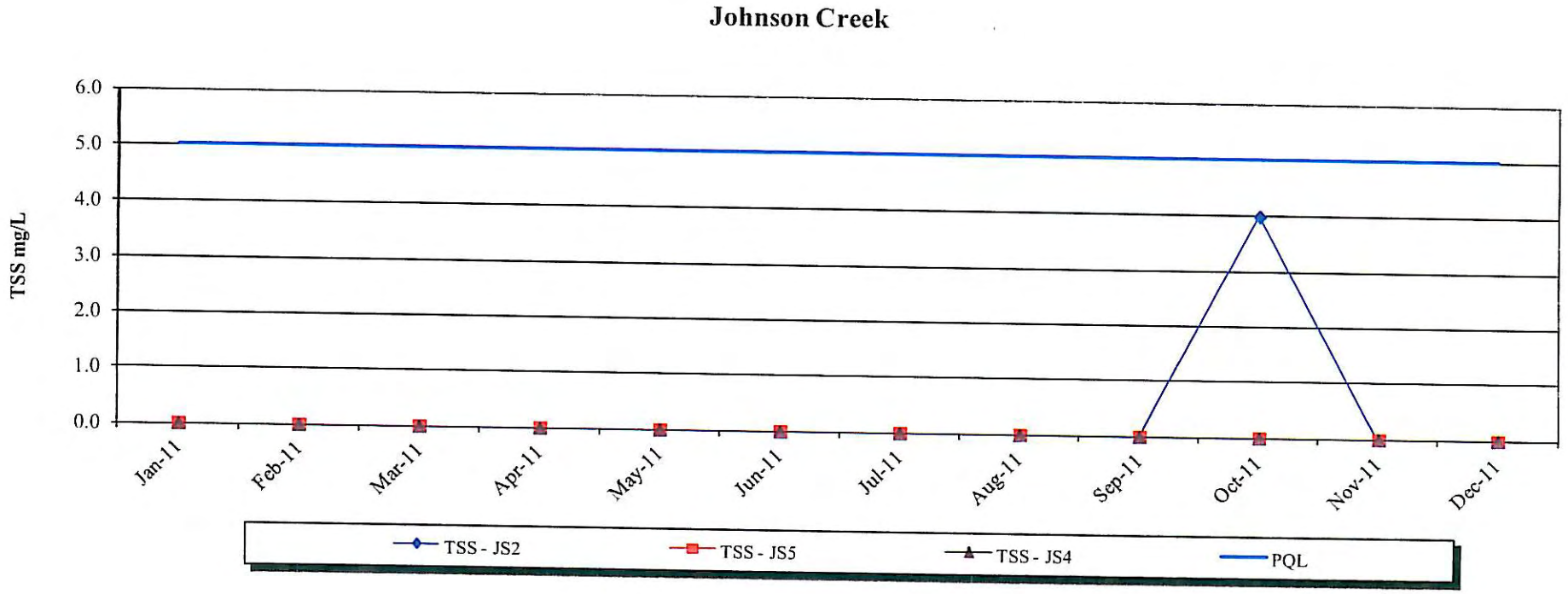
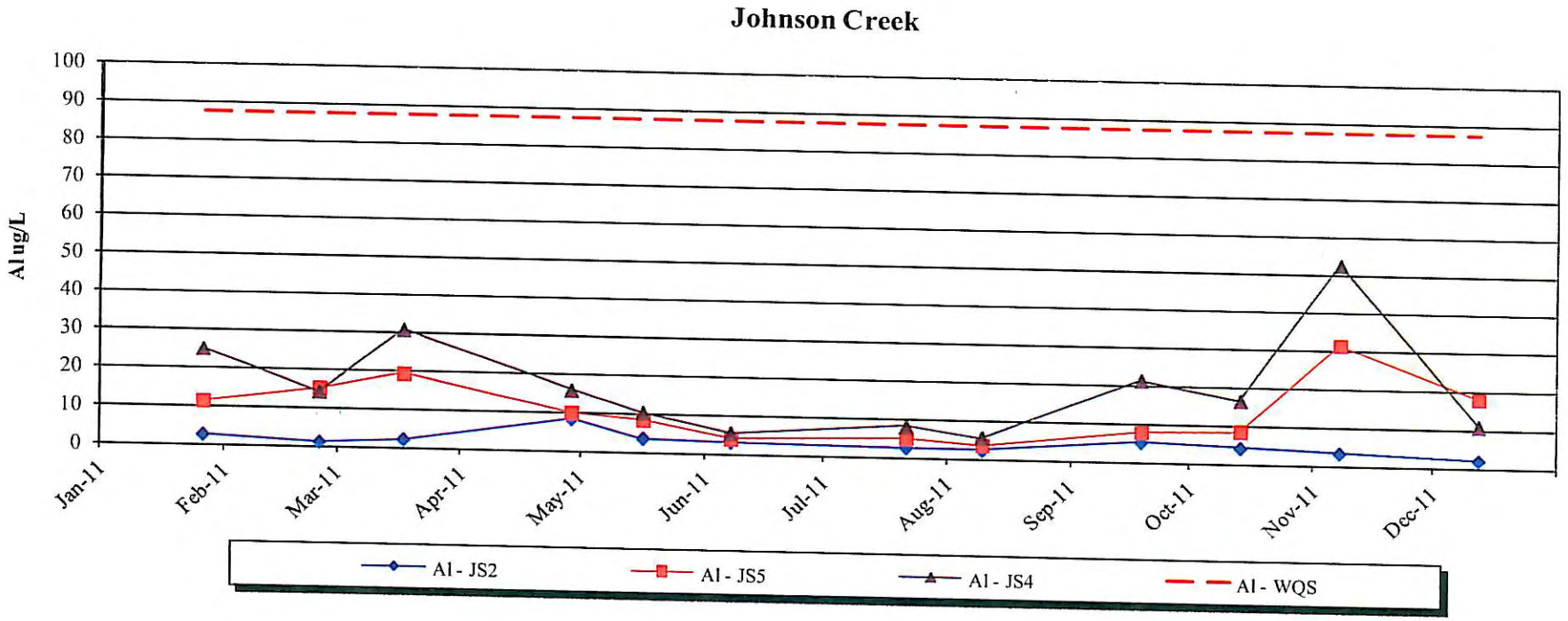


Figure 6c: Johnson Creek Monitoring Results 2011, Trace Chemistry



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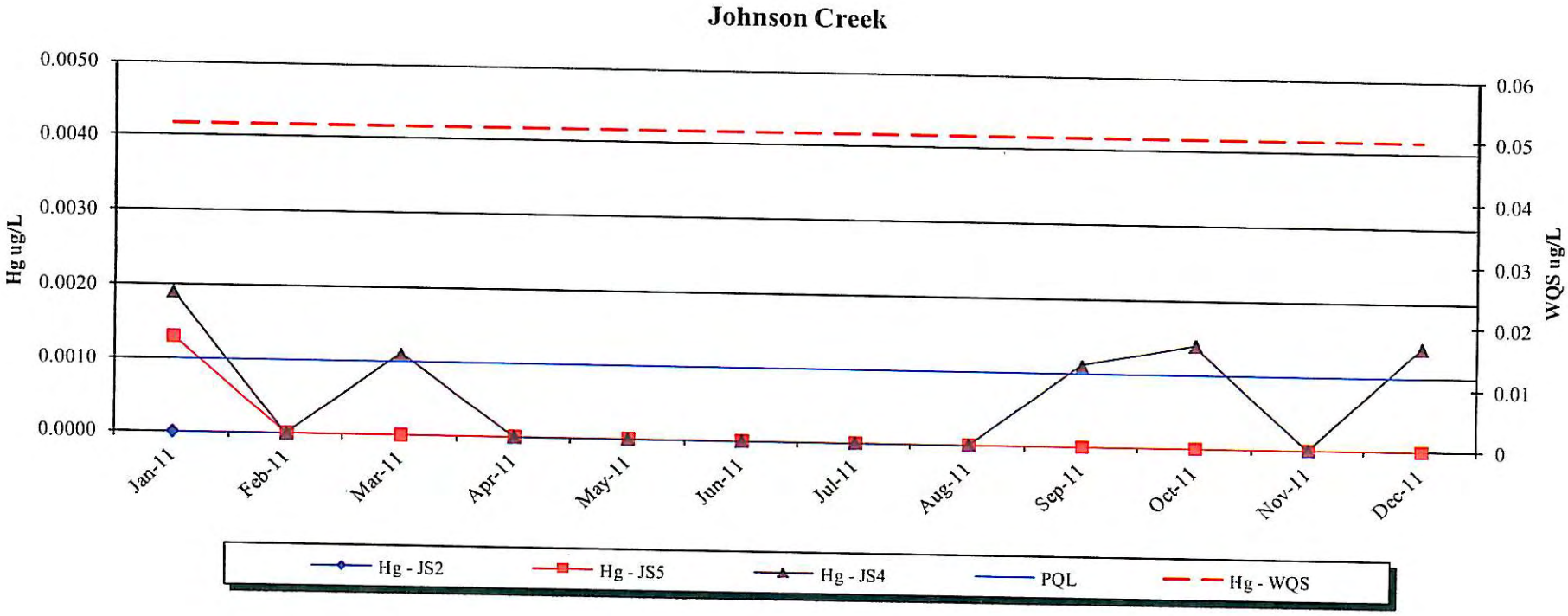

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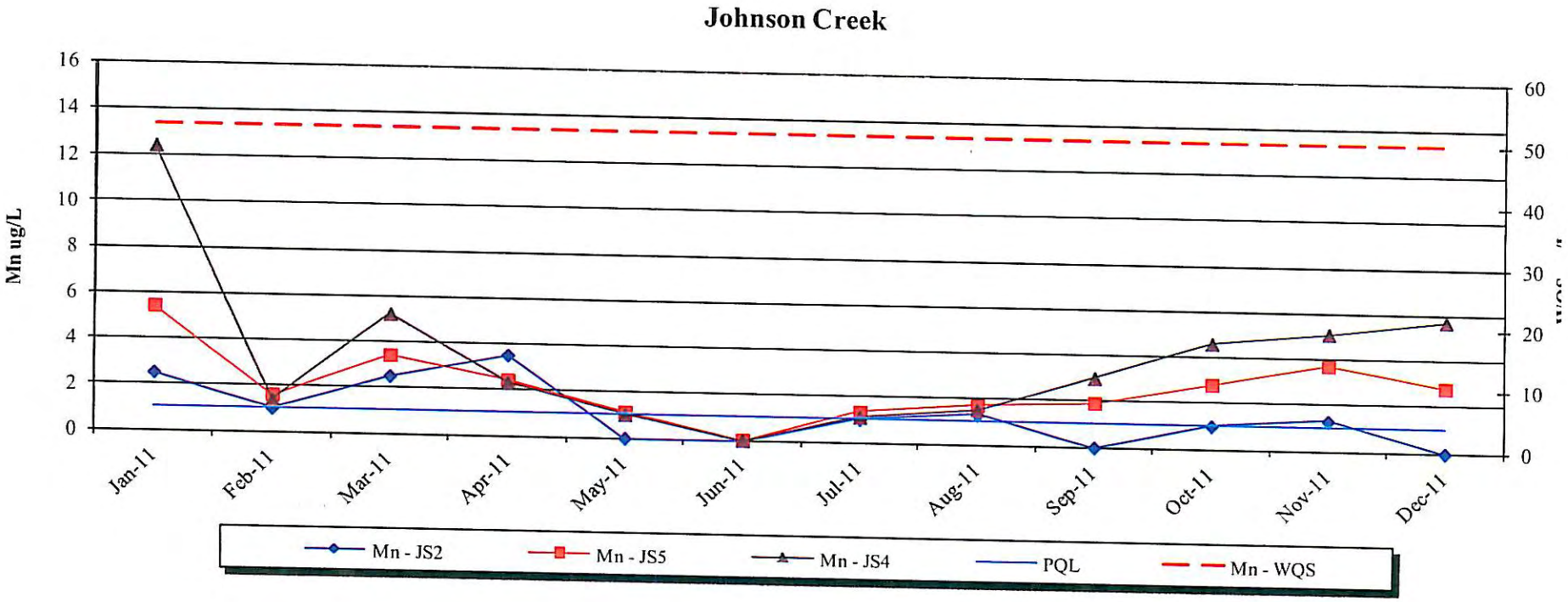

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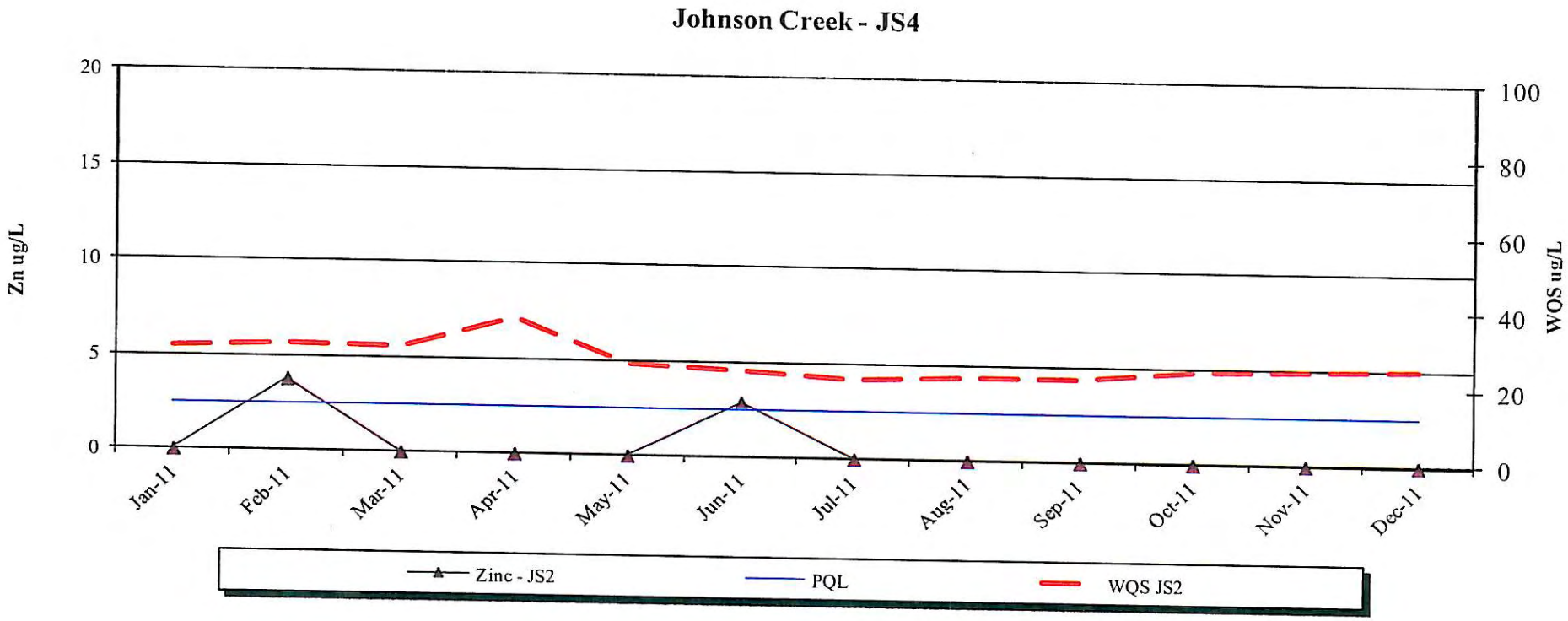

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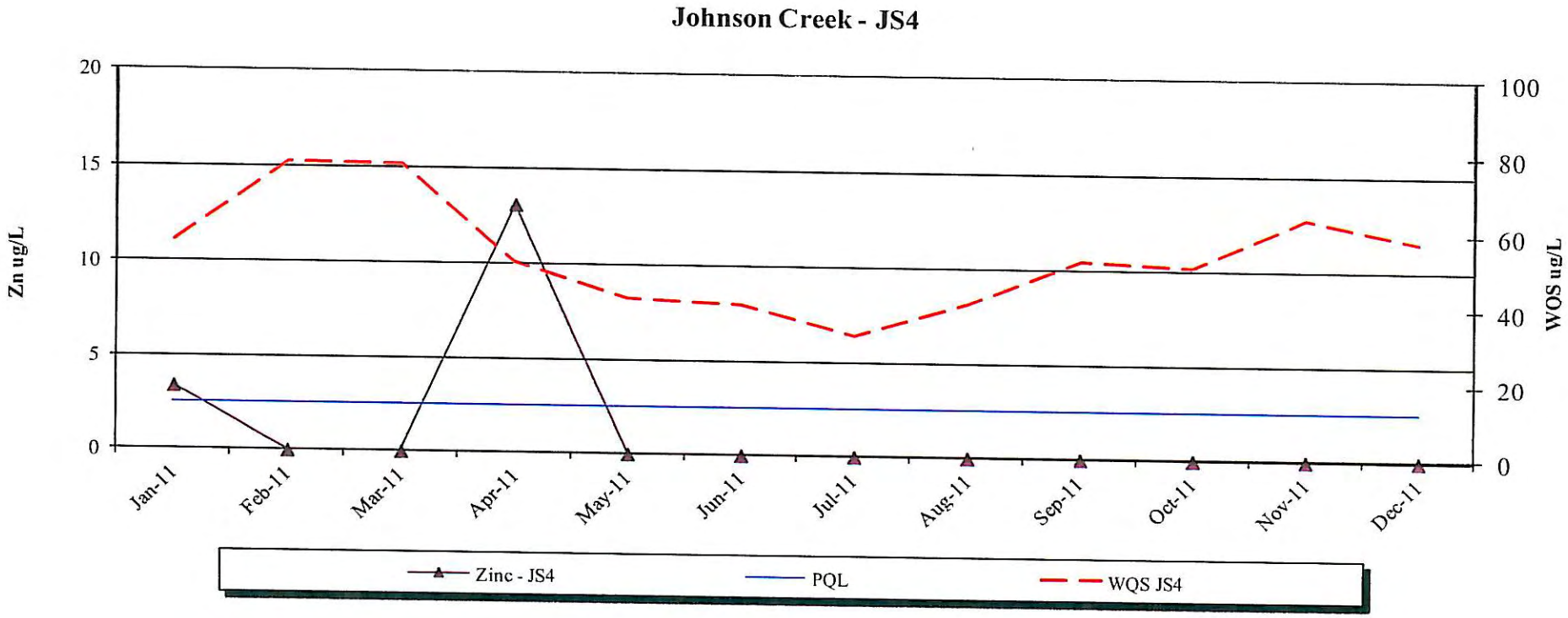

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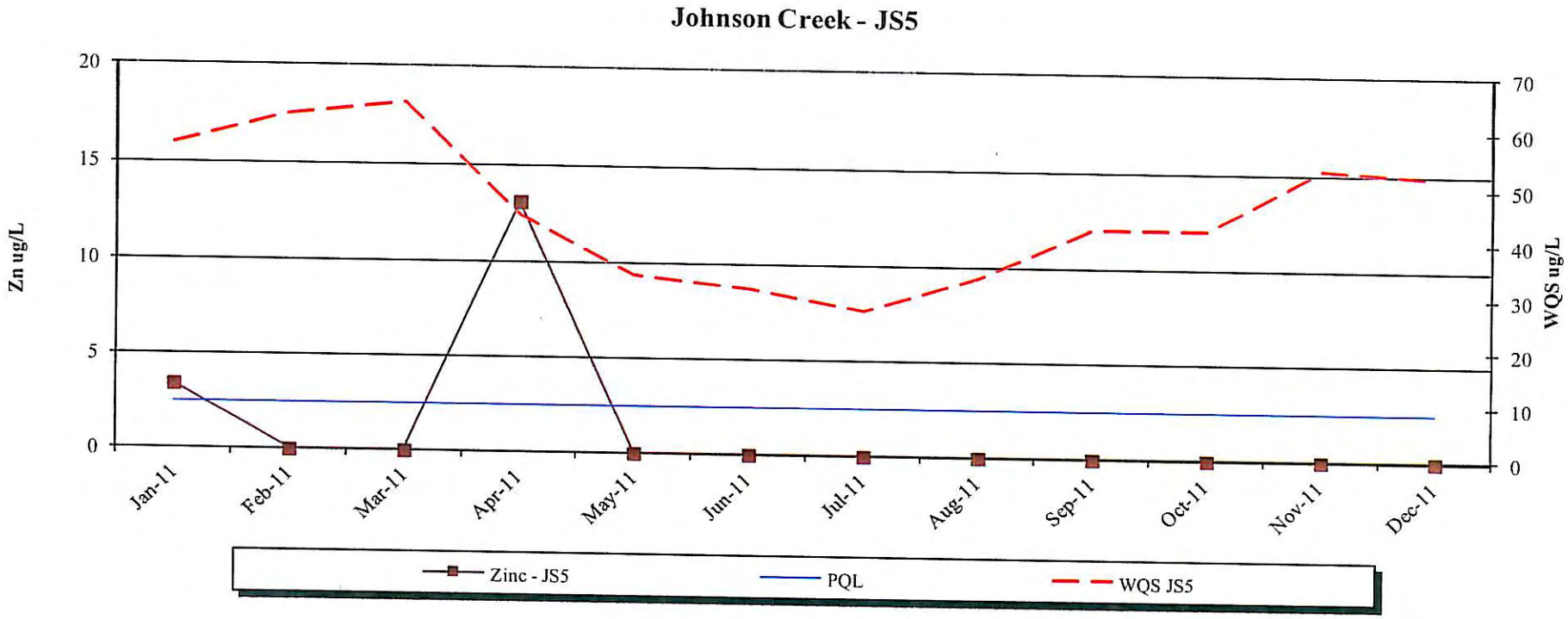

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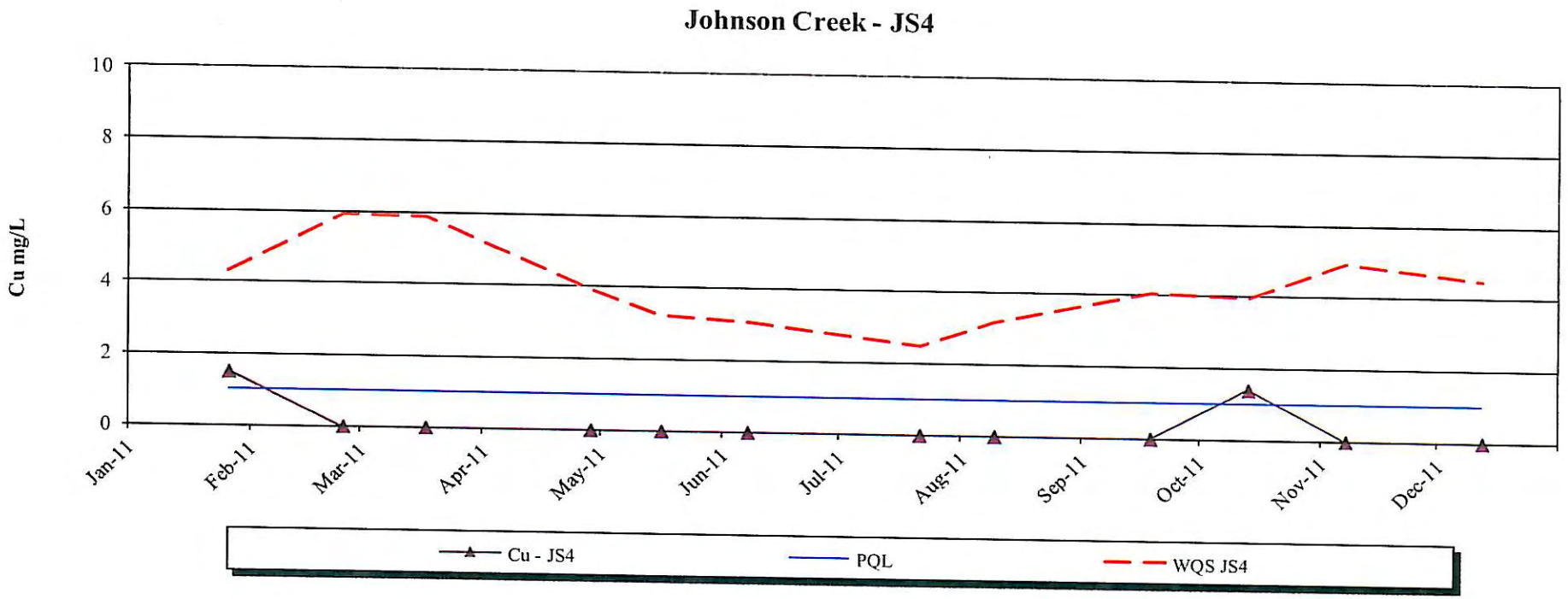

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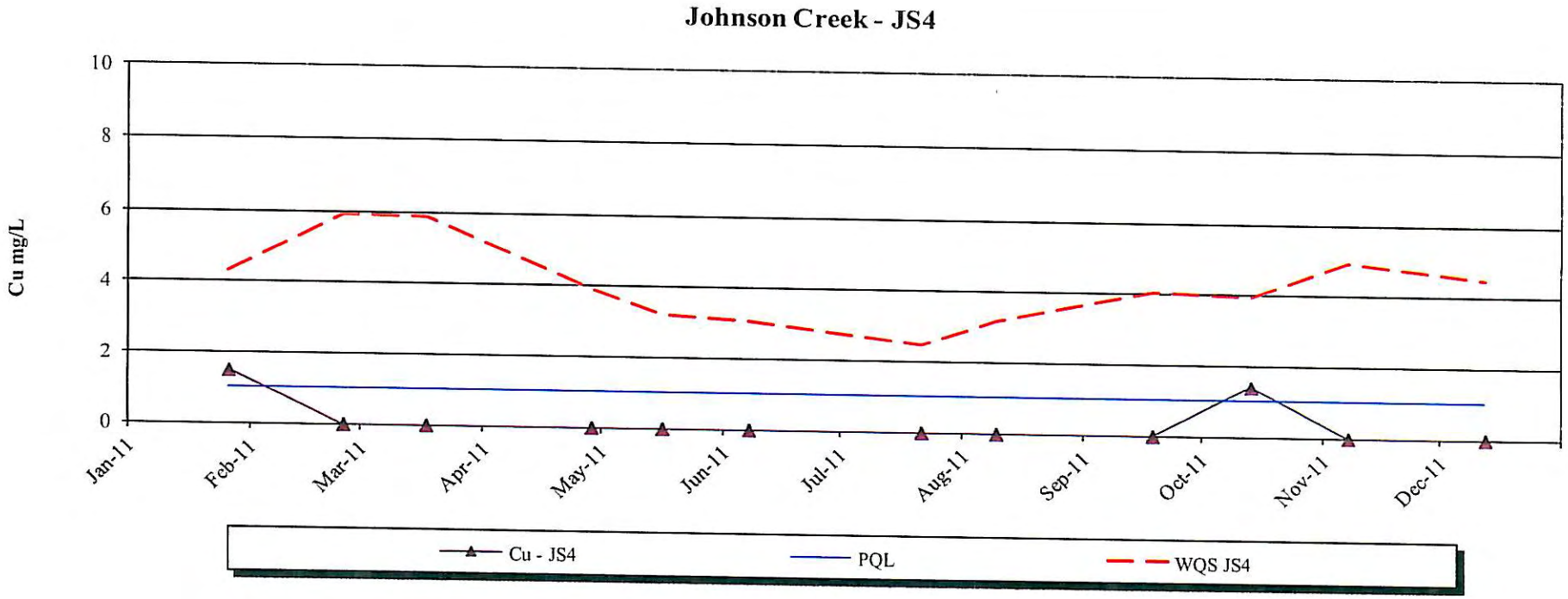
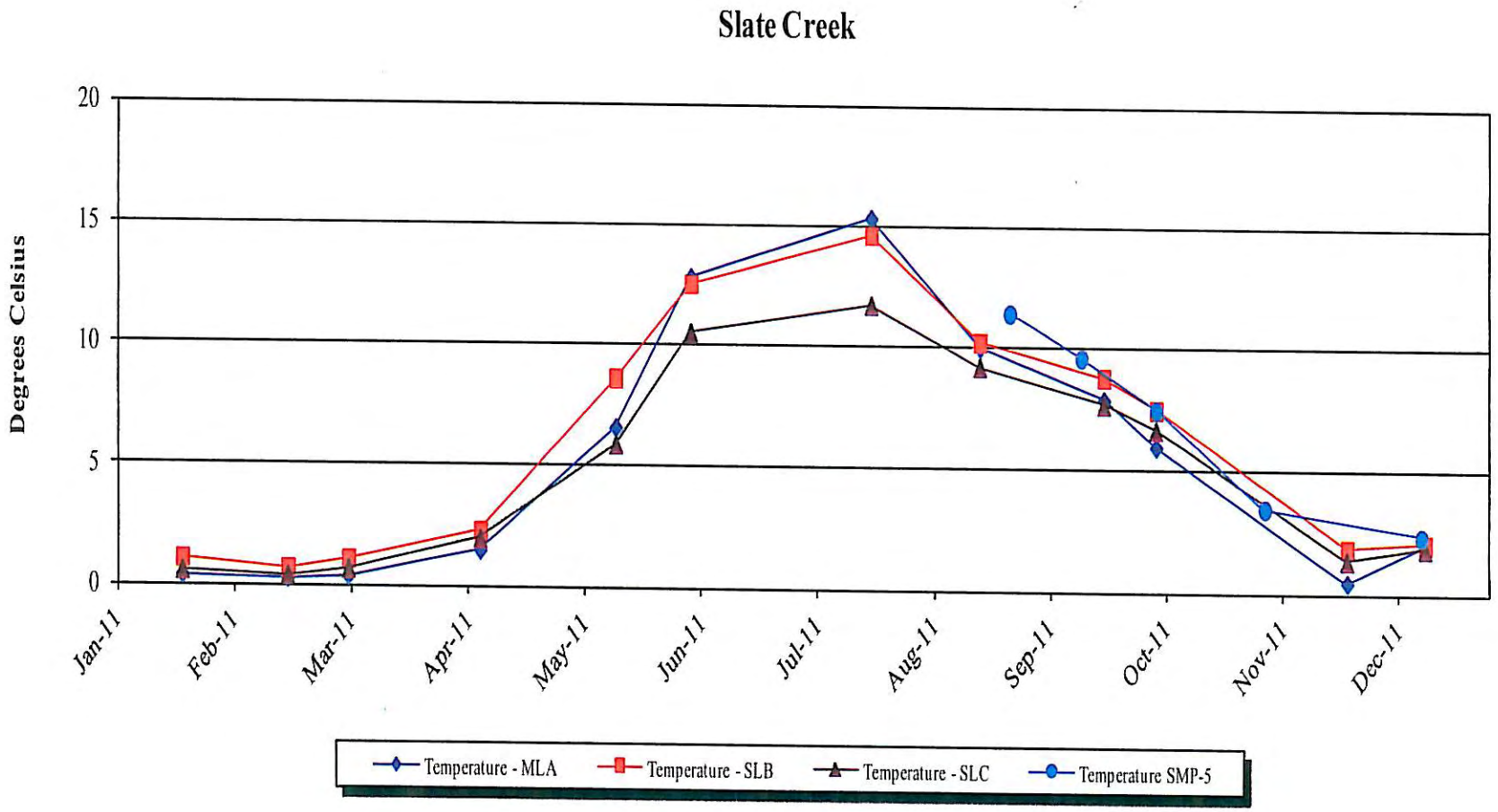


Figure 7a: Slate Creek Monitoring Results 2011, Field Parameters



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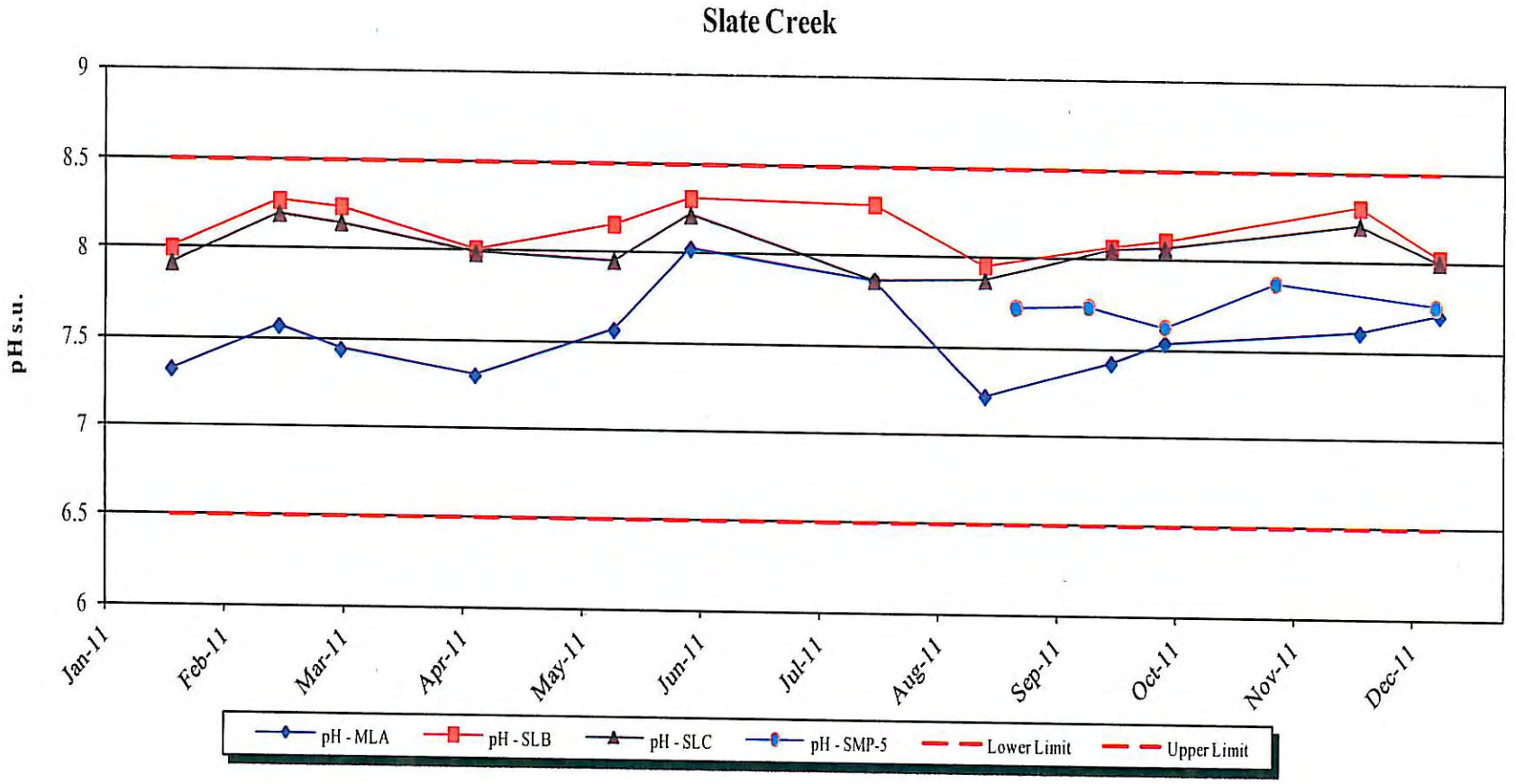

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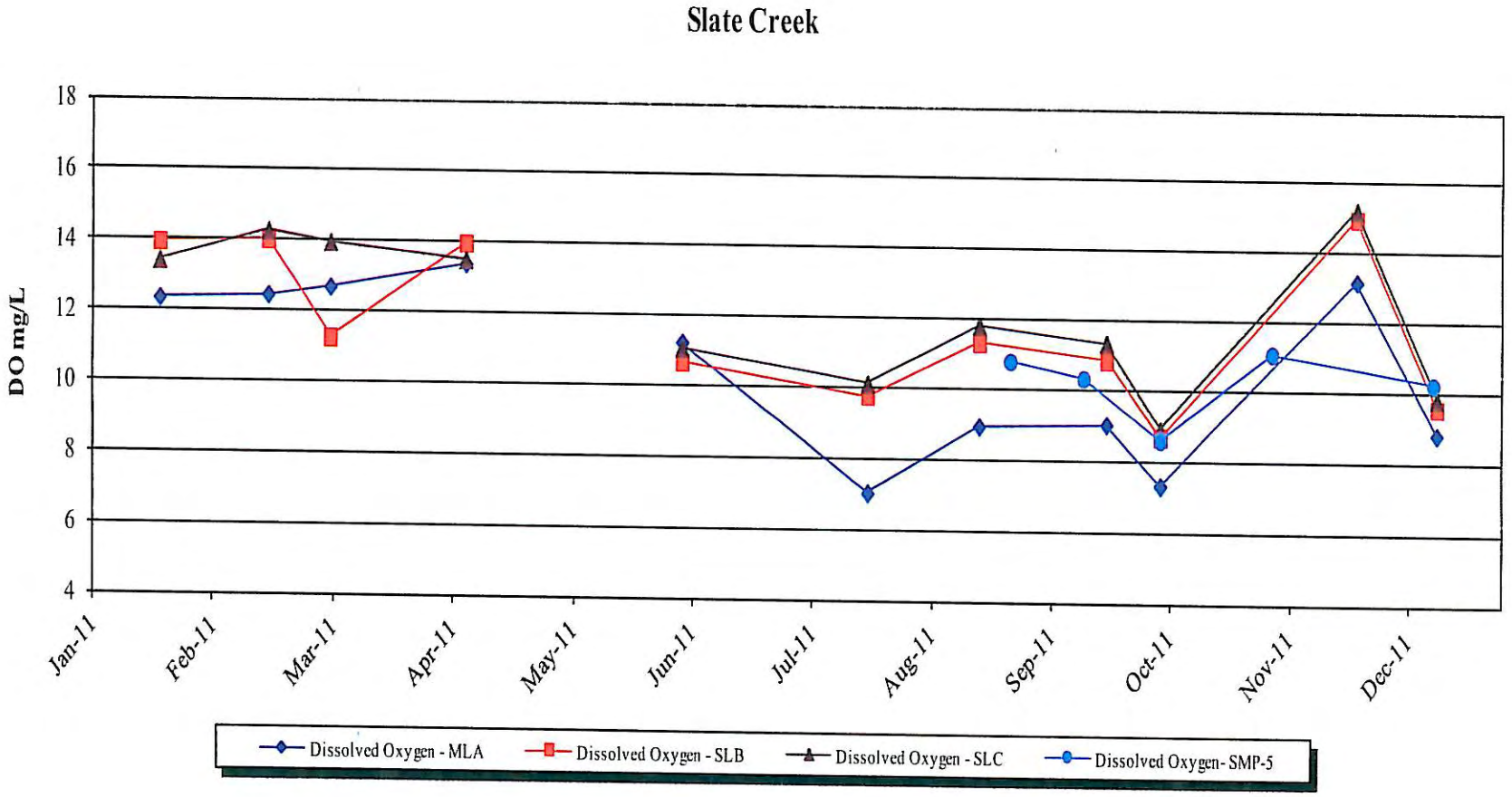

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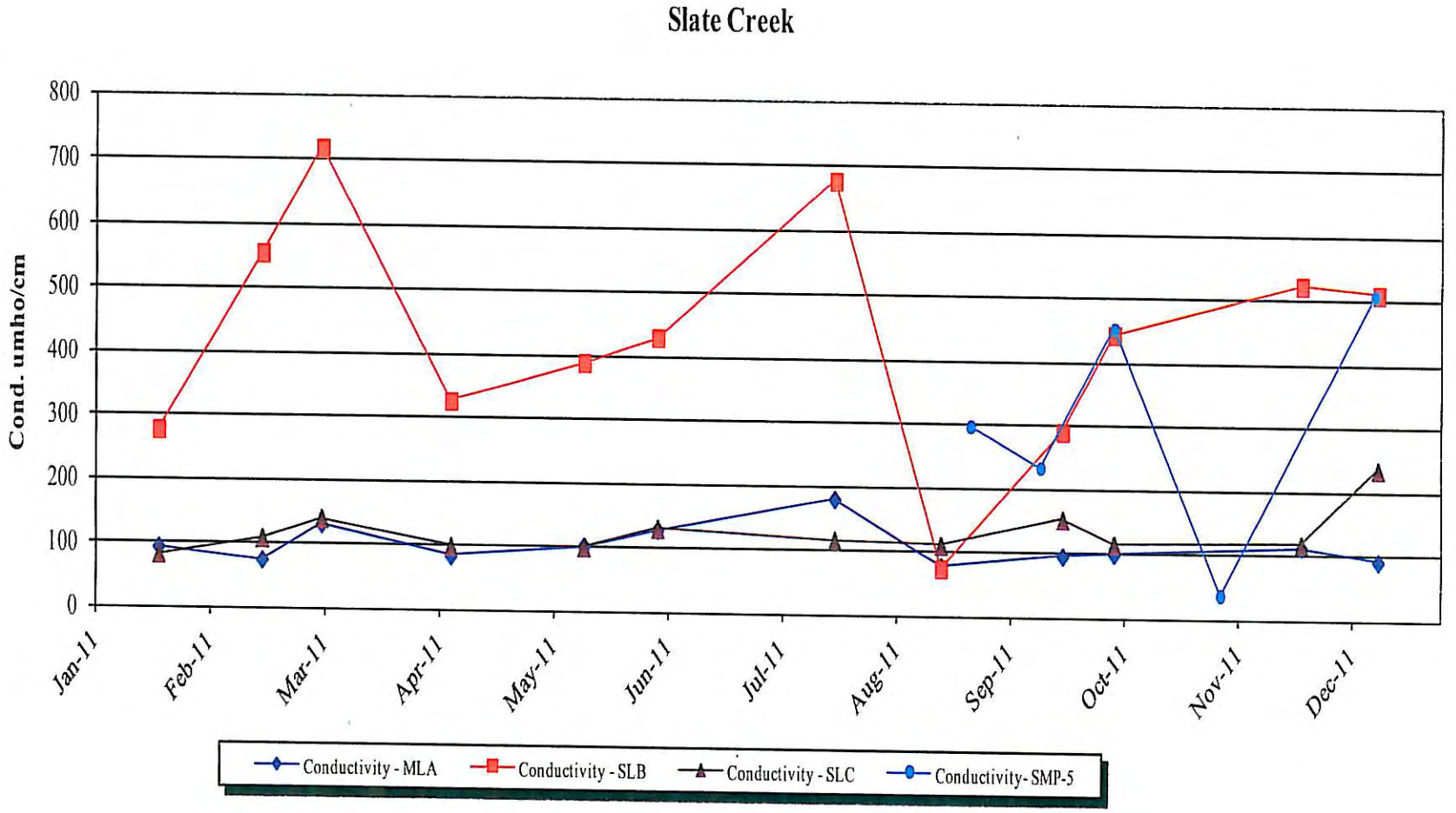

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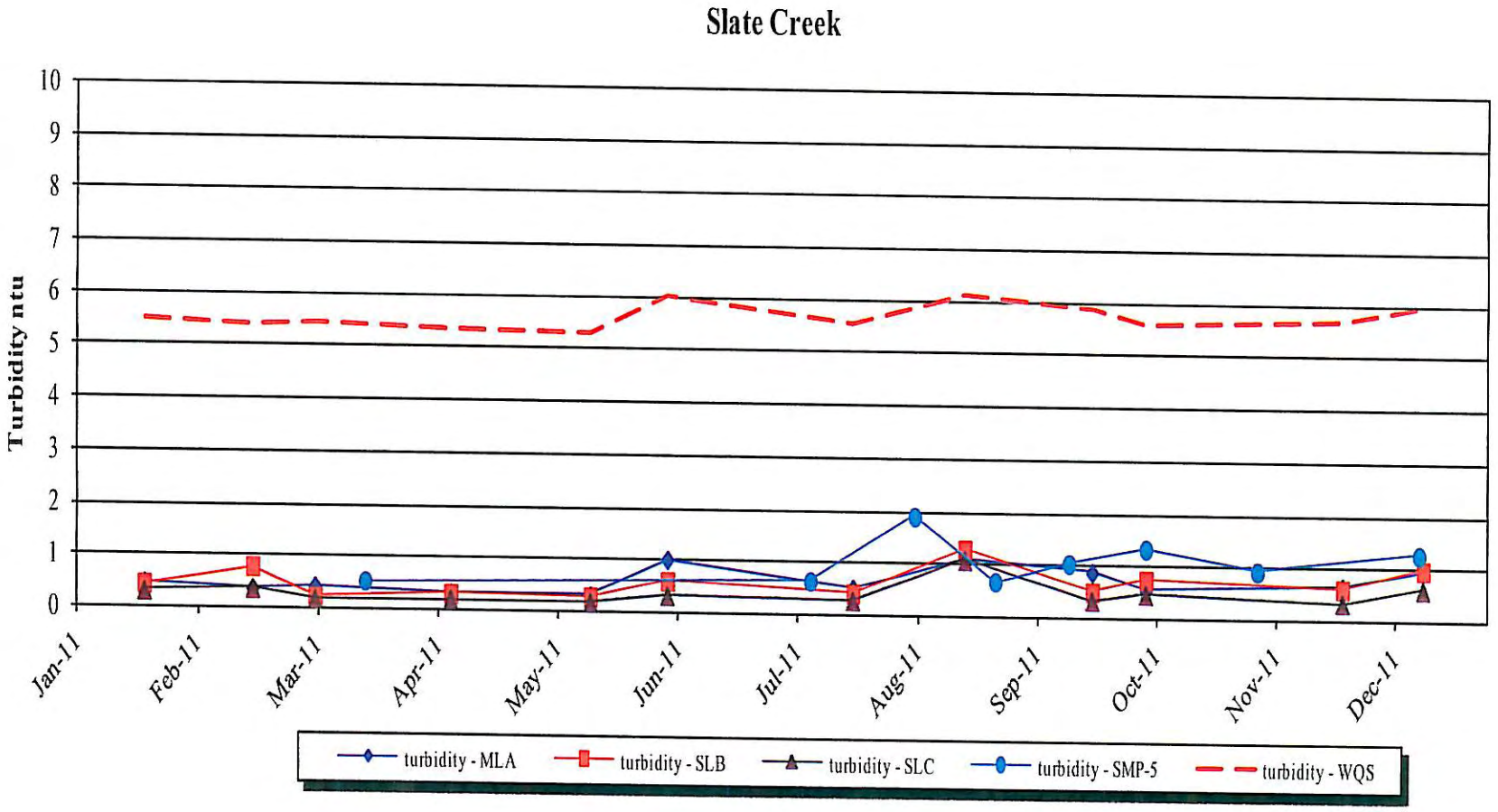

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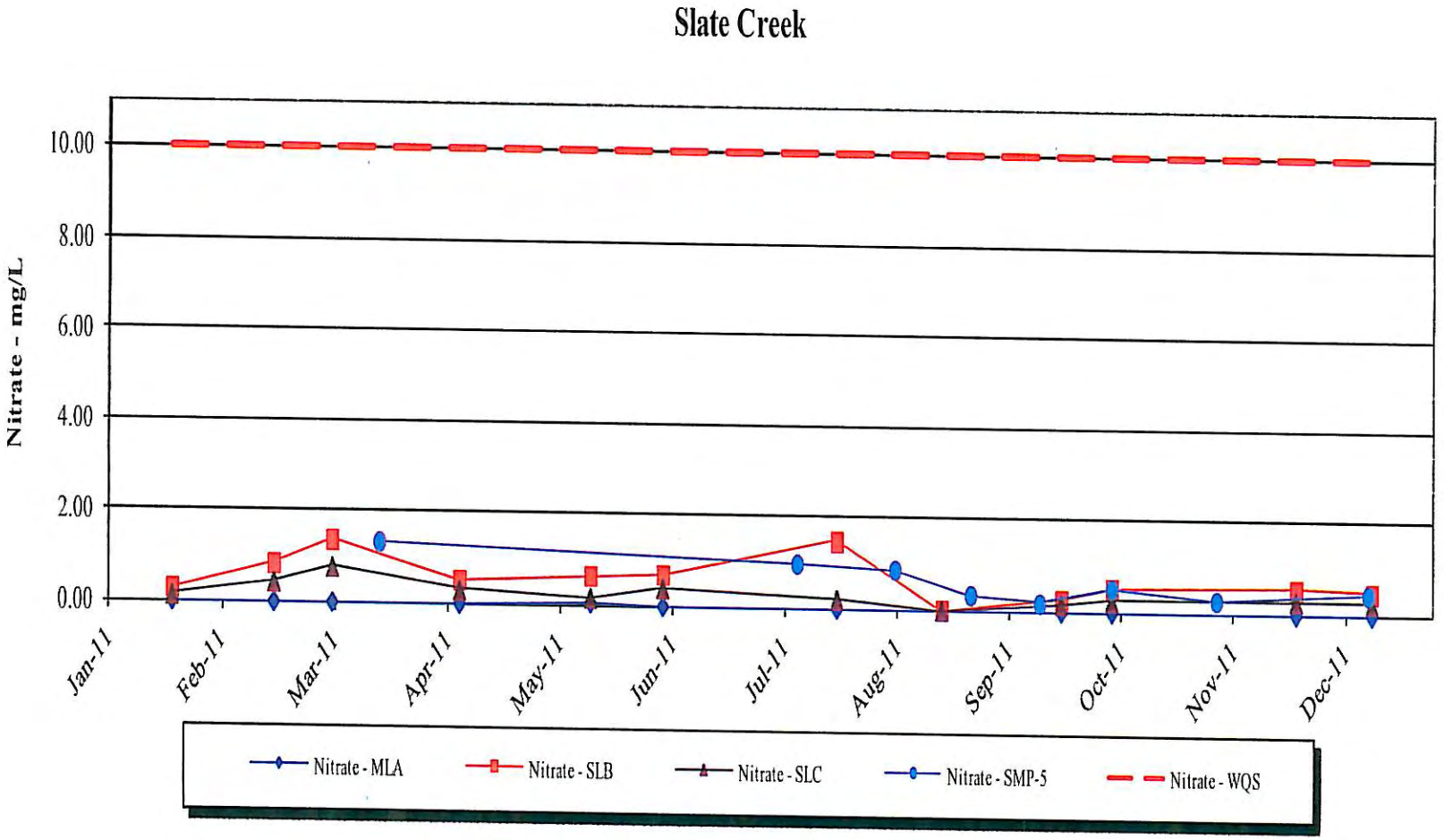

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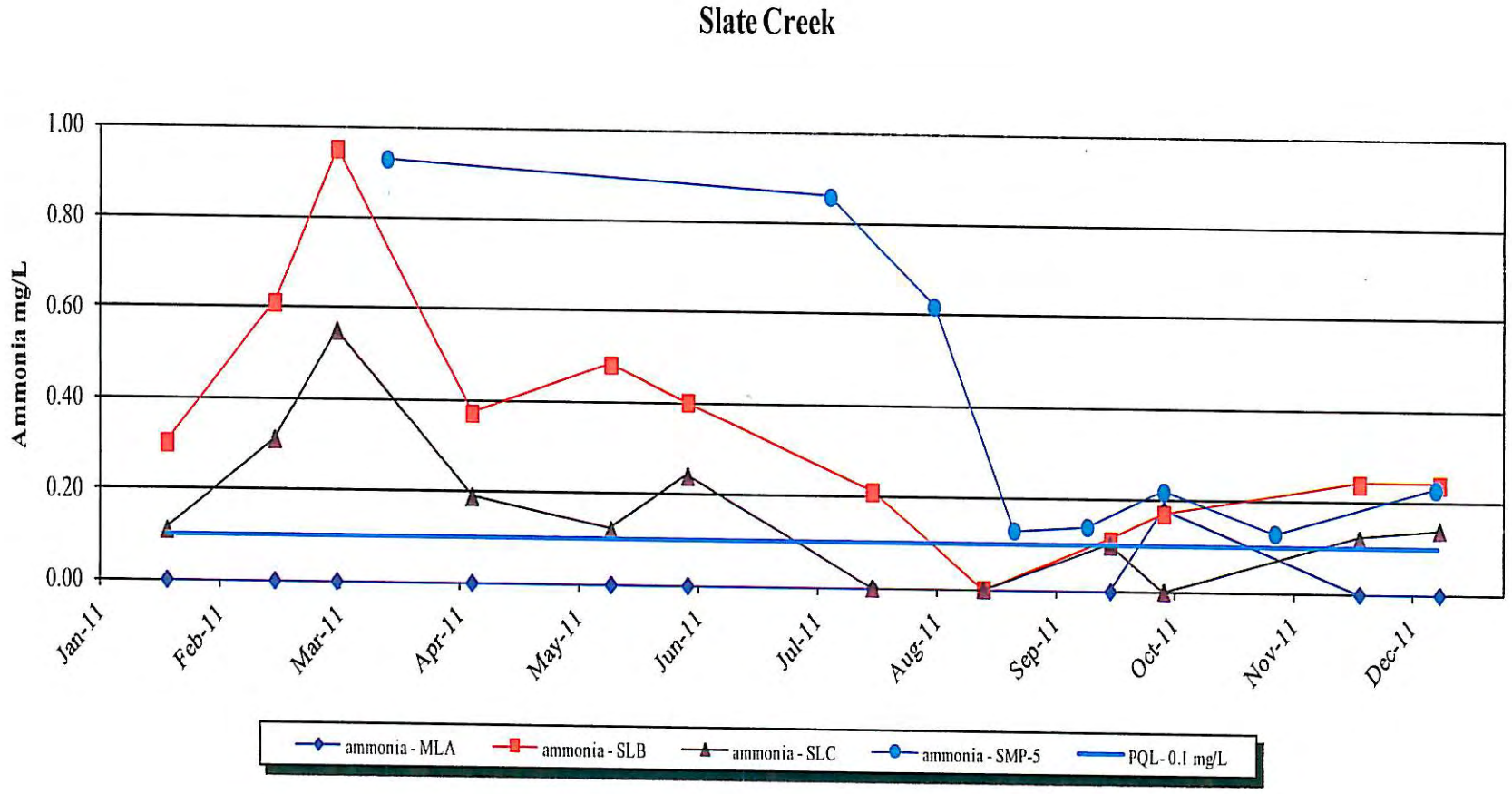

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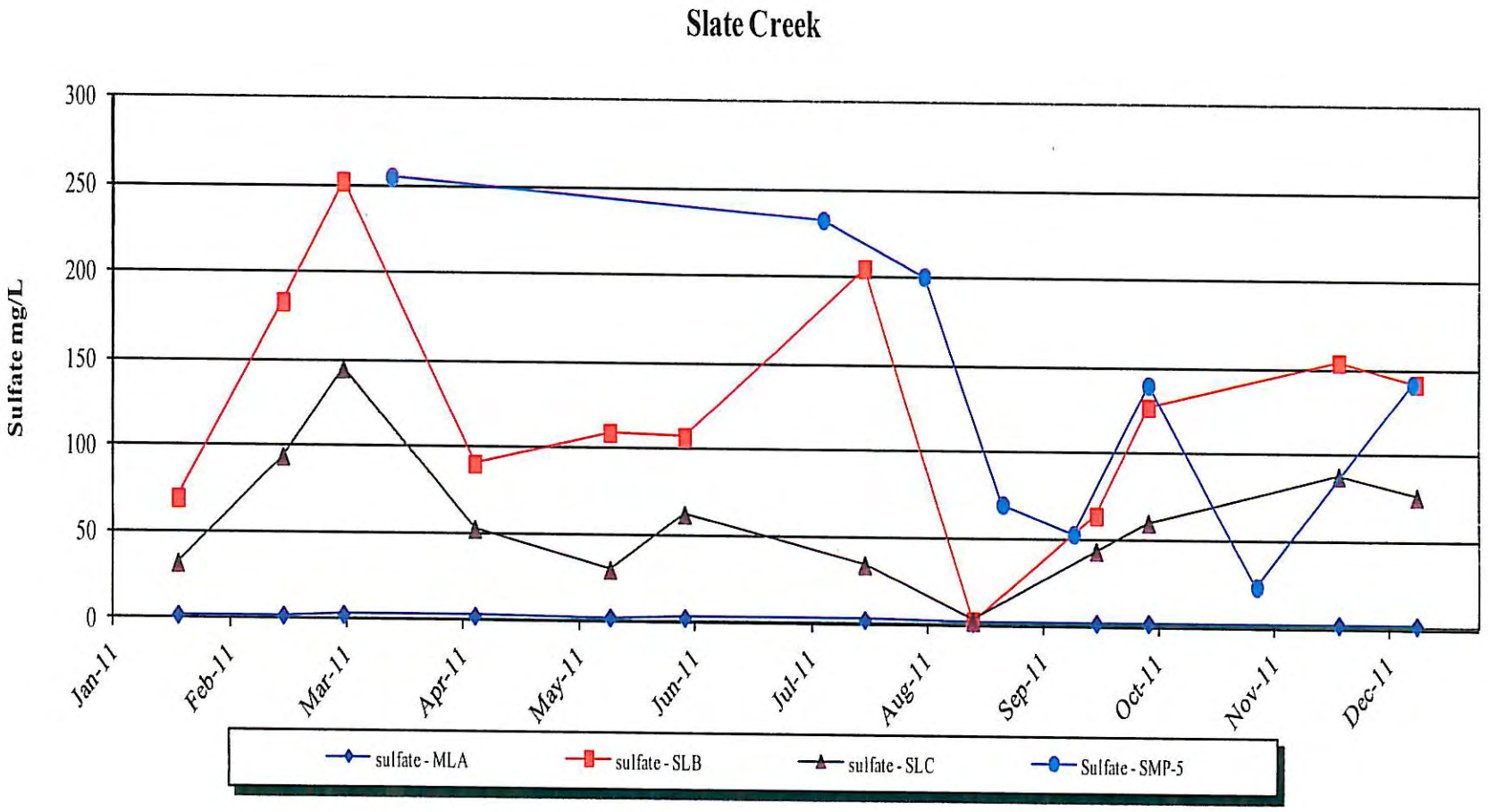

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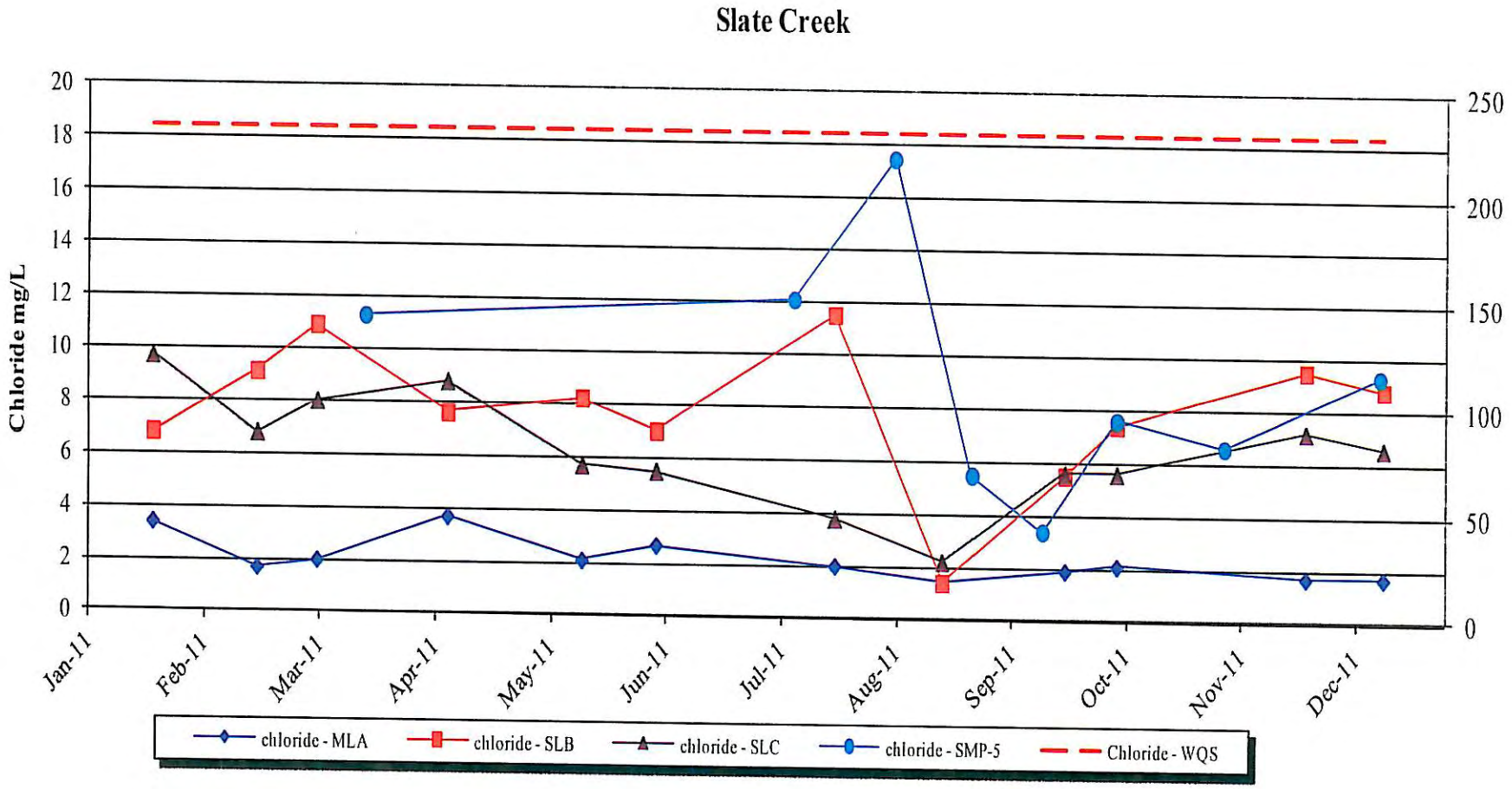

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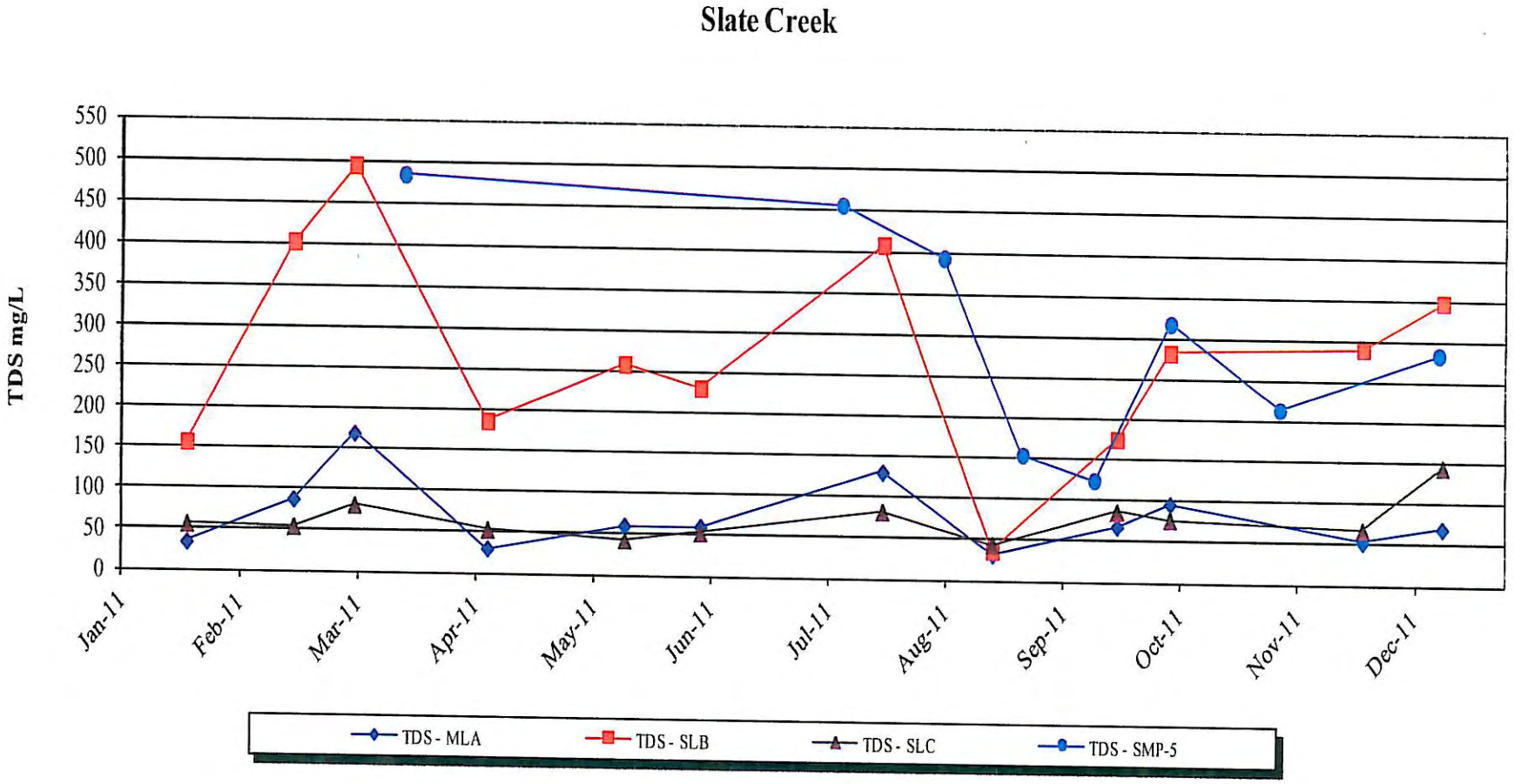
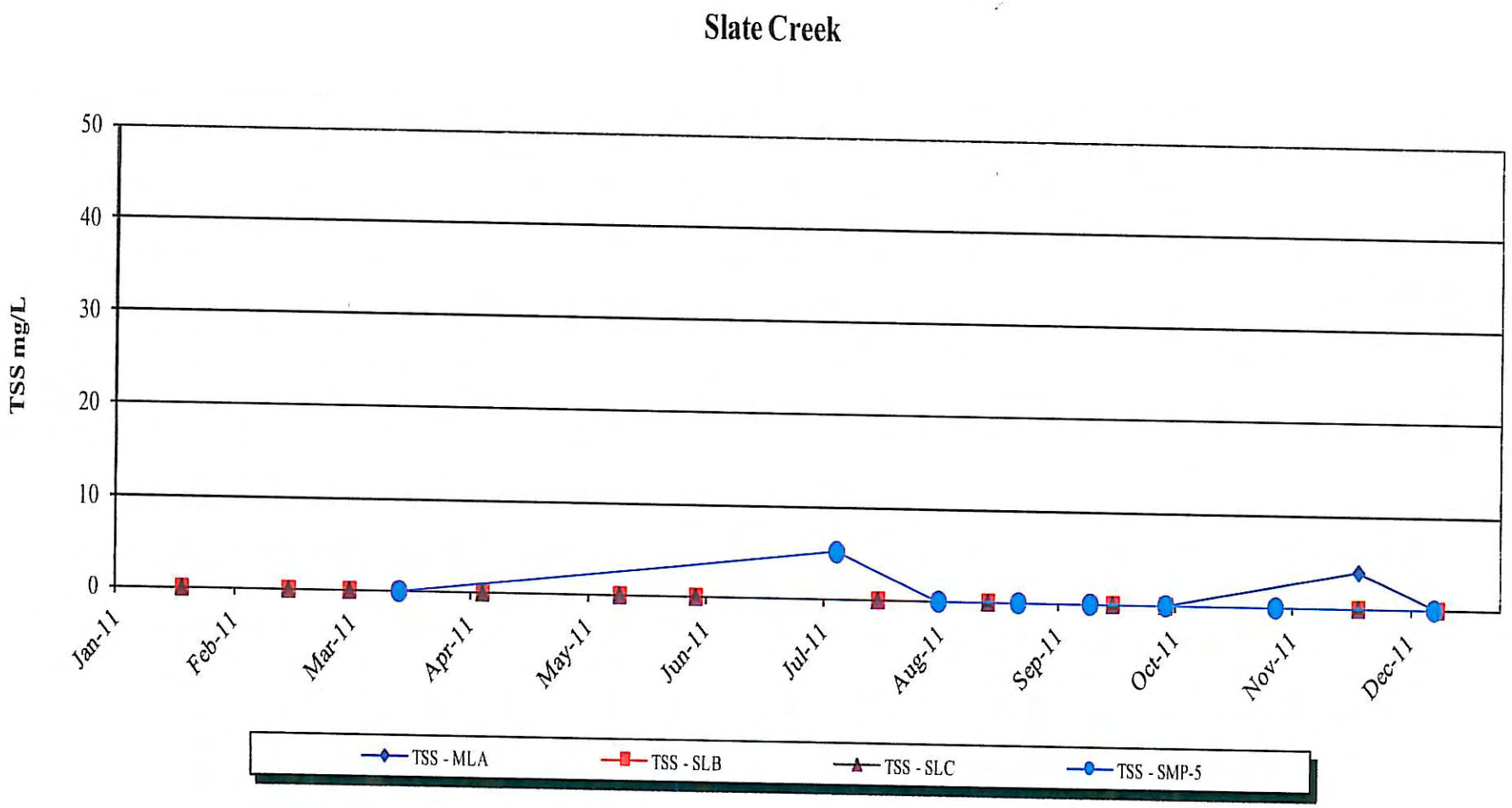


Figure 7c: Slate Creek Monitoring Results 2011, Major Chemistry



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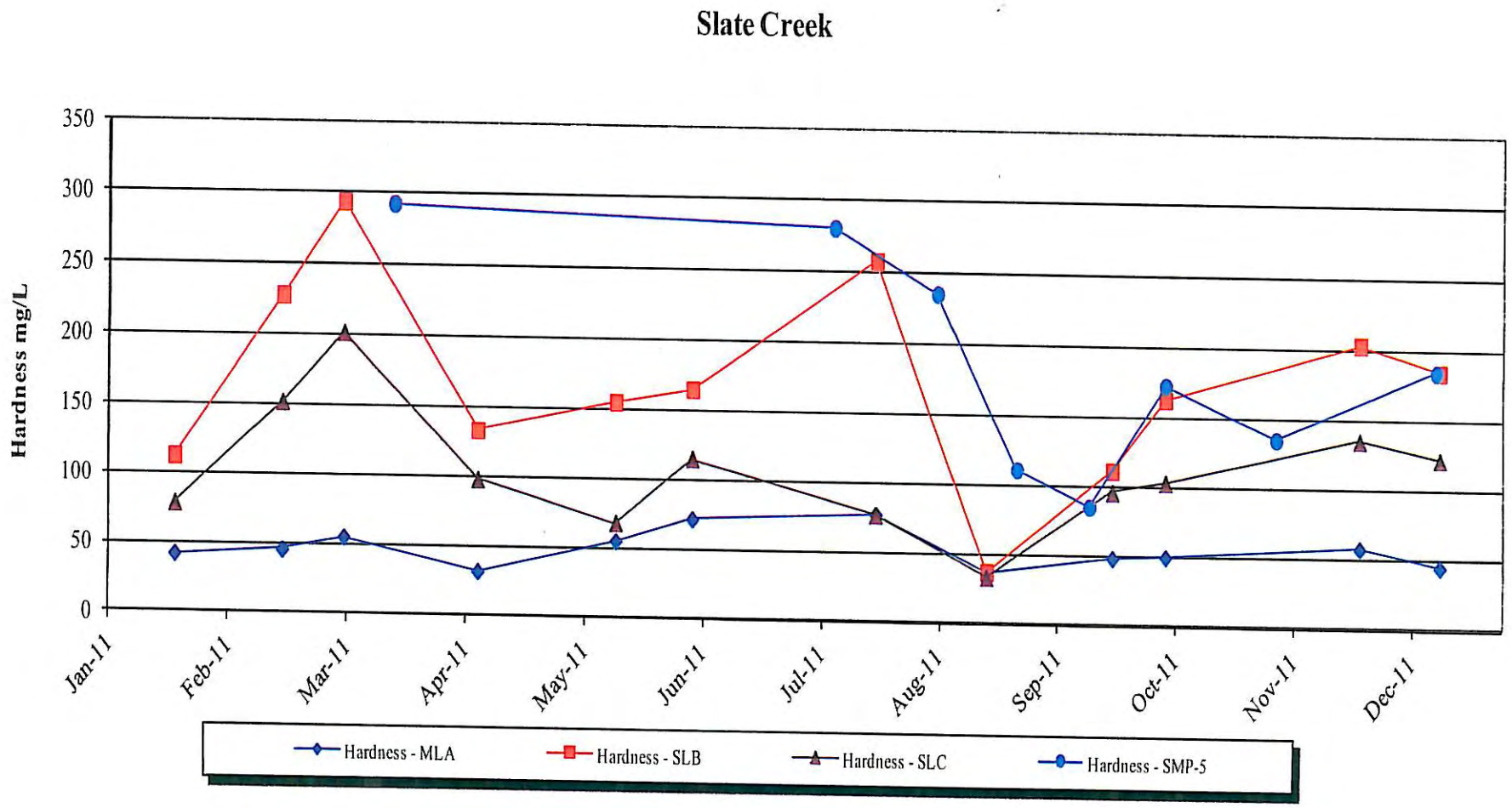

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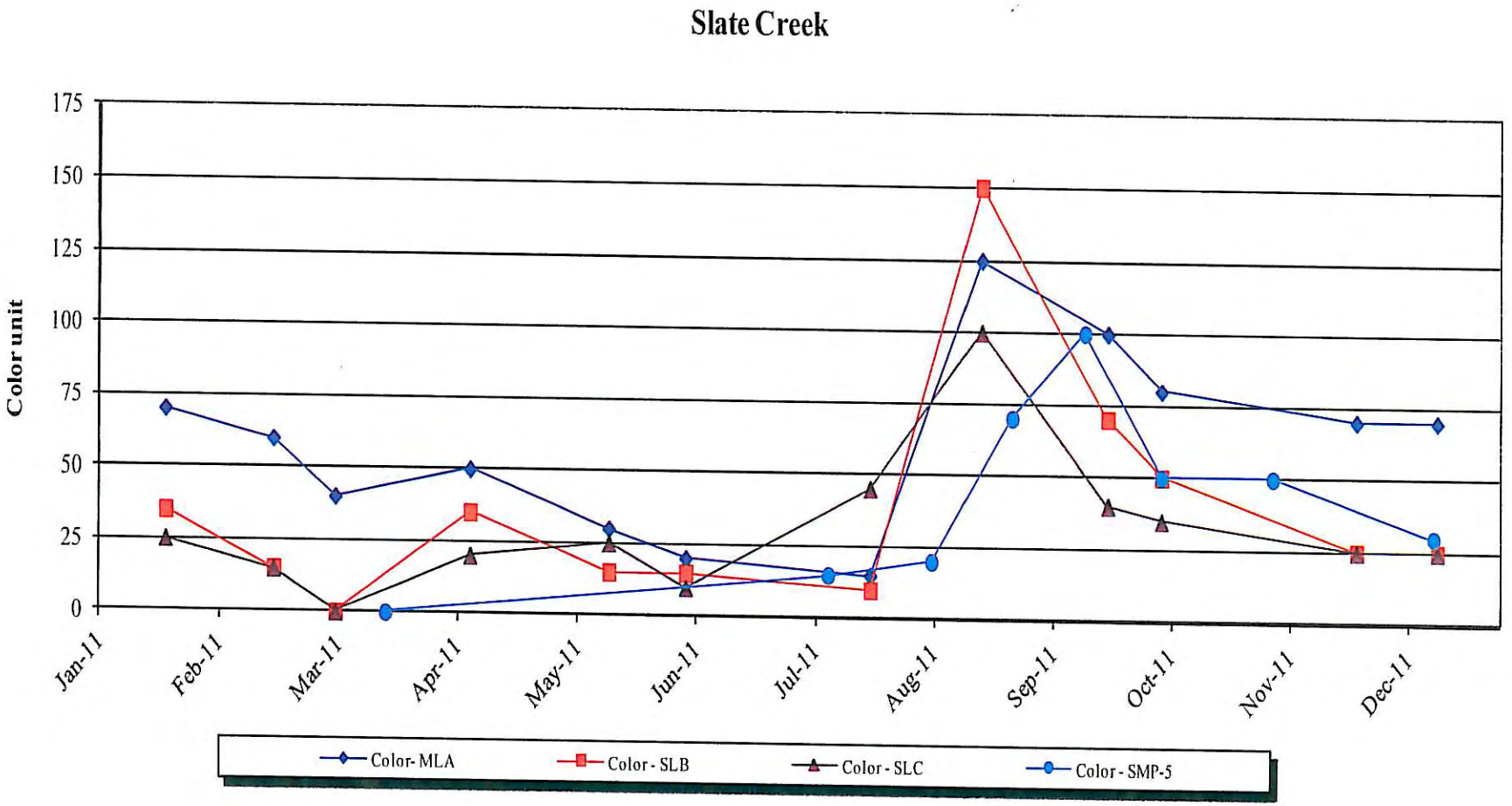
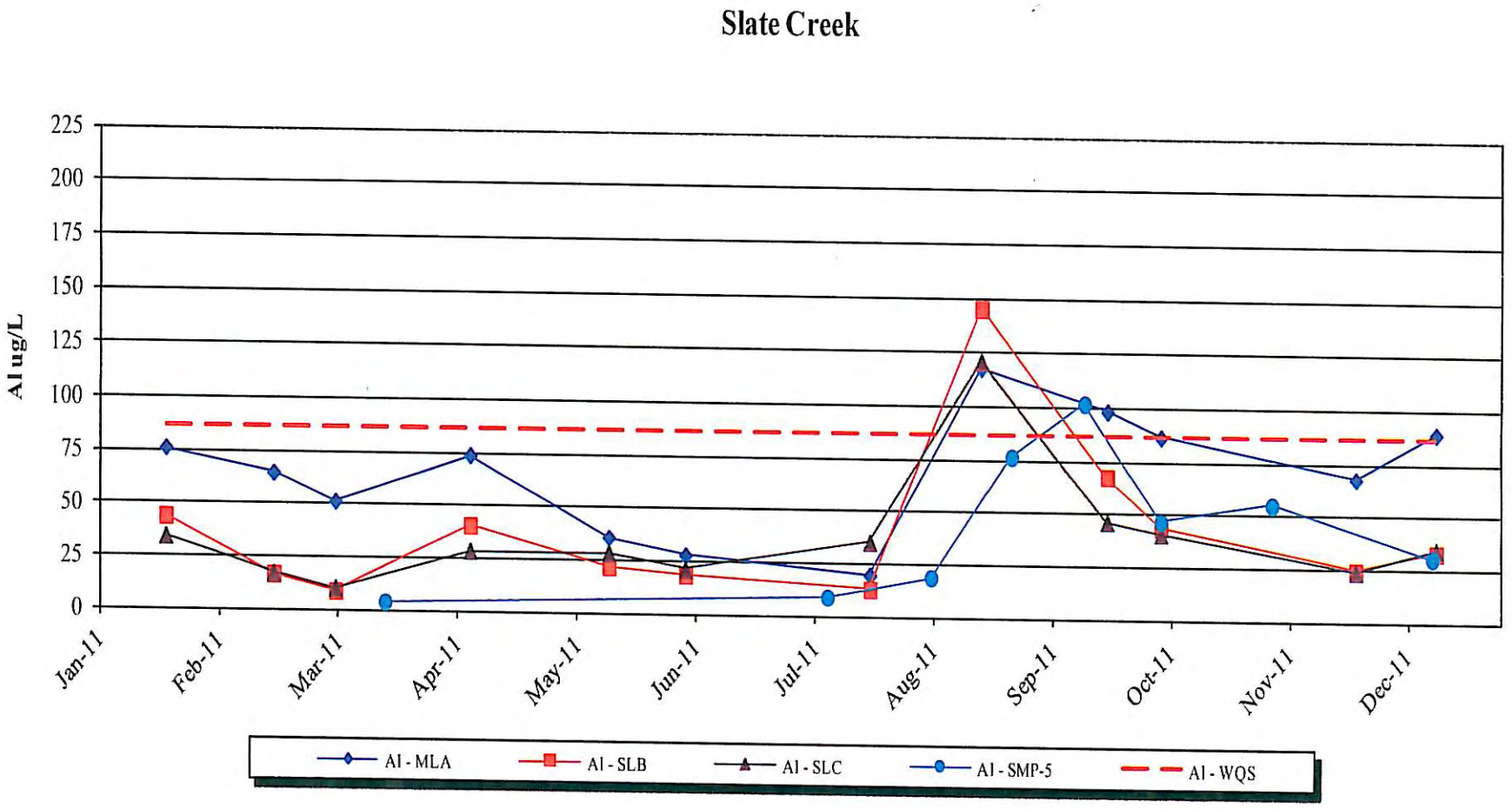


Figure 7c: Slate Creek Monitoring Results 2011, Trace Chemistry



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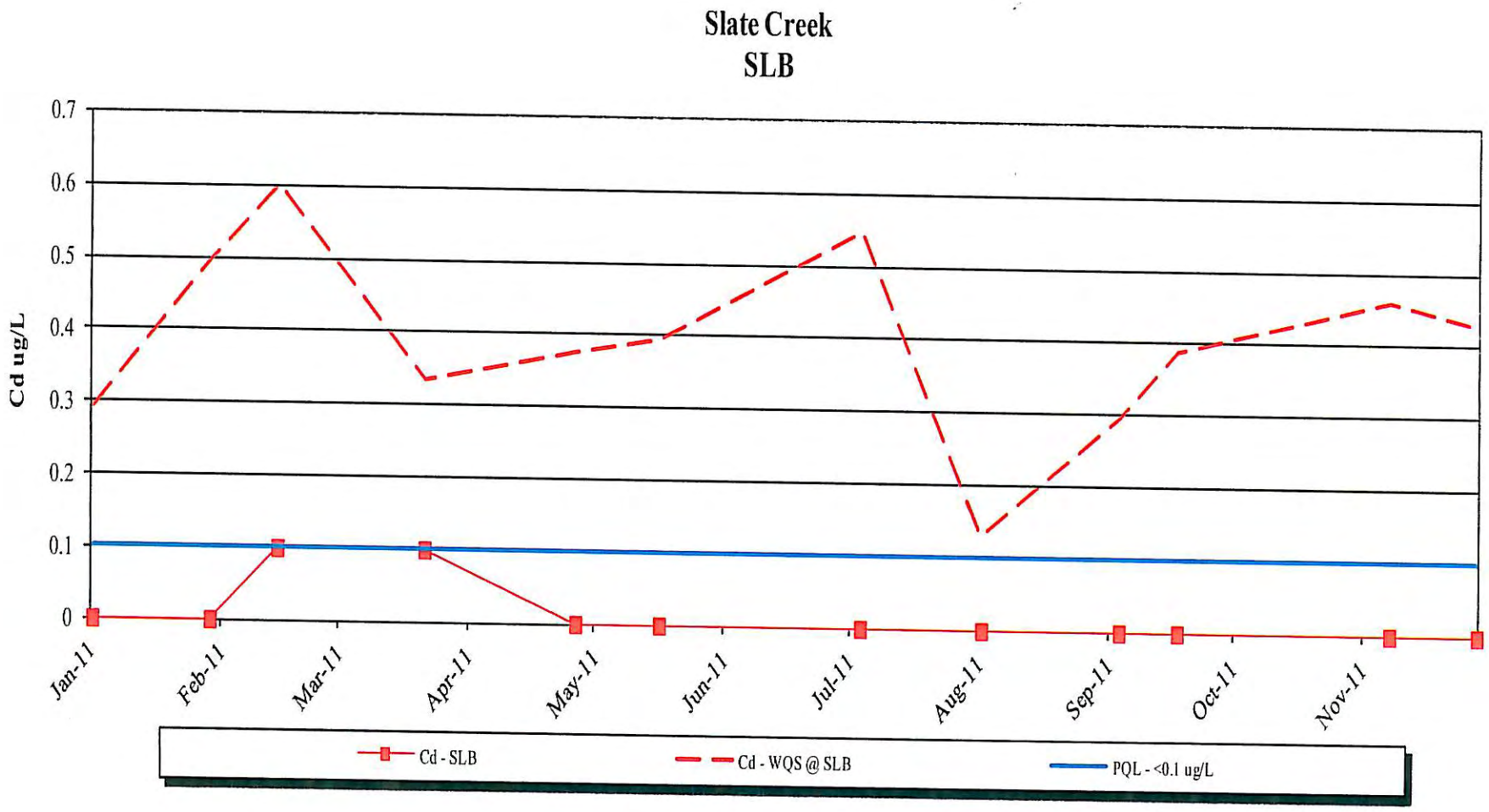

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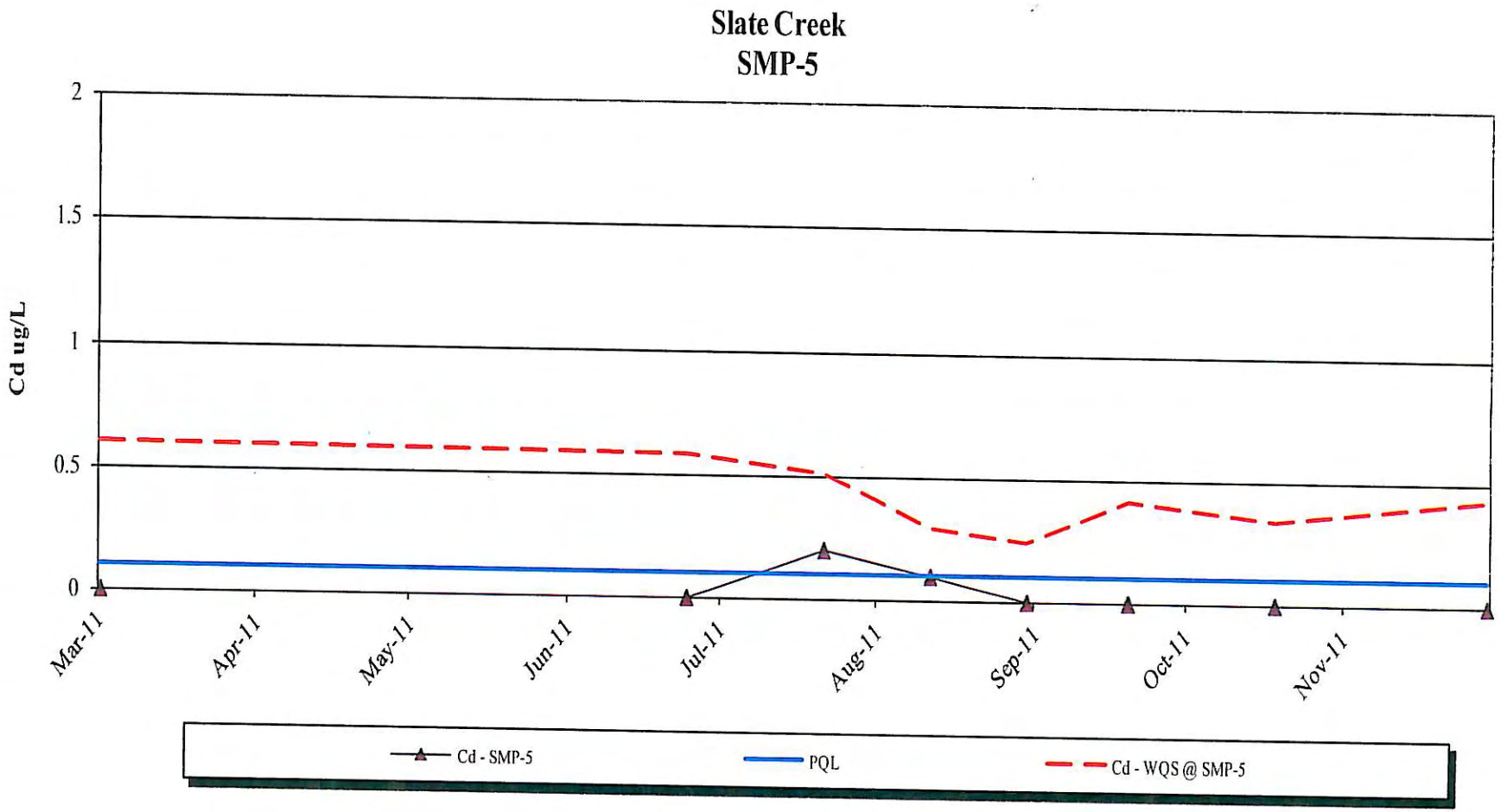

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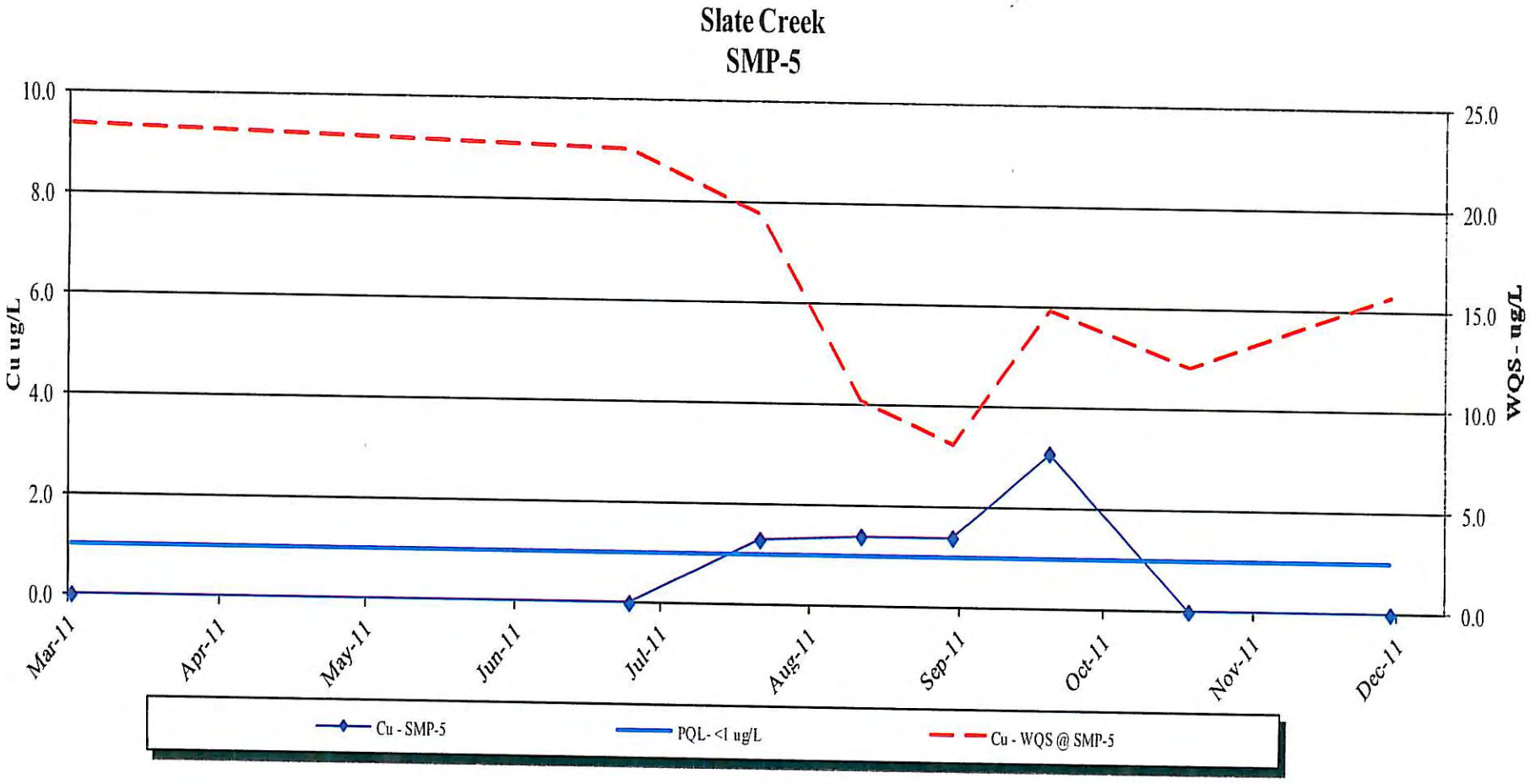

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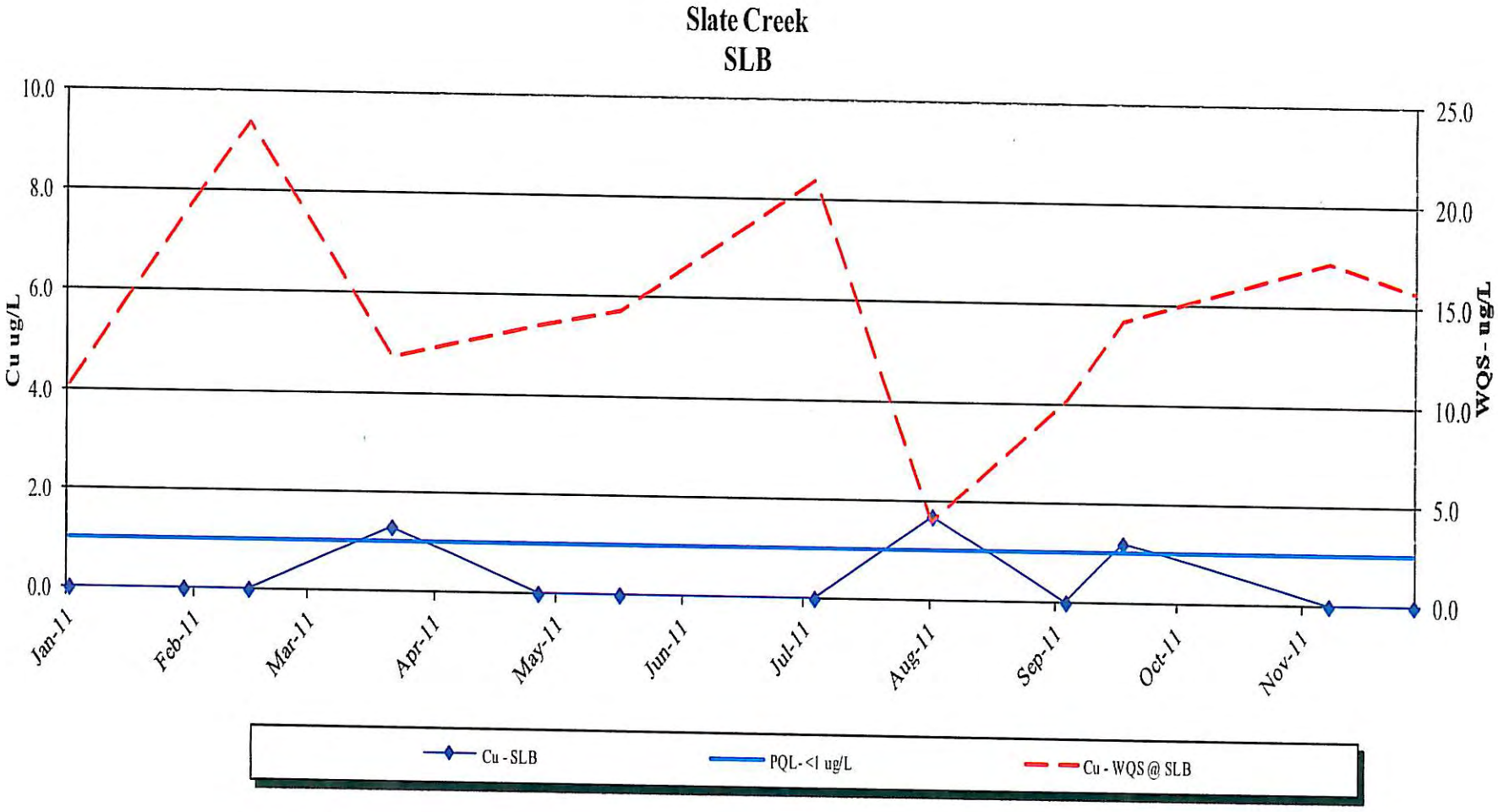

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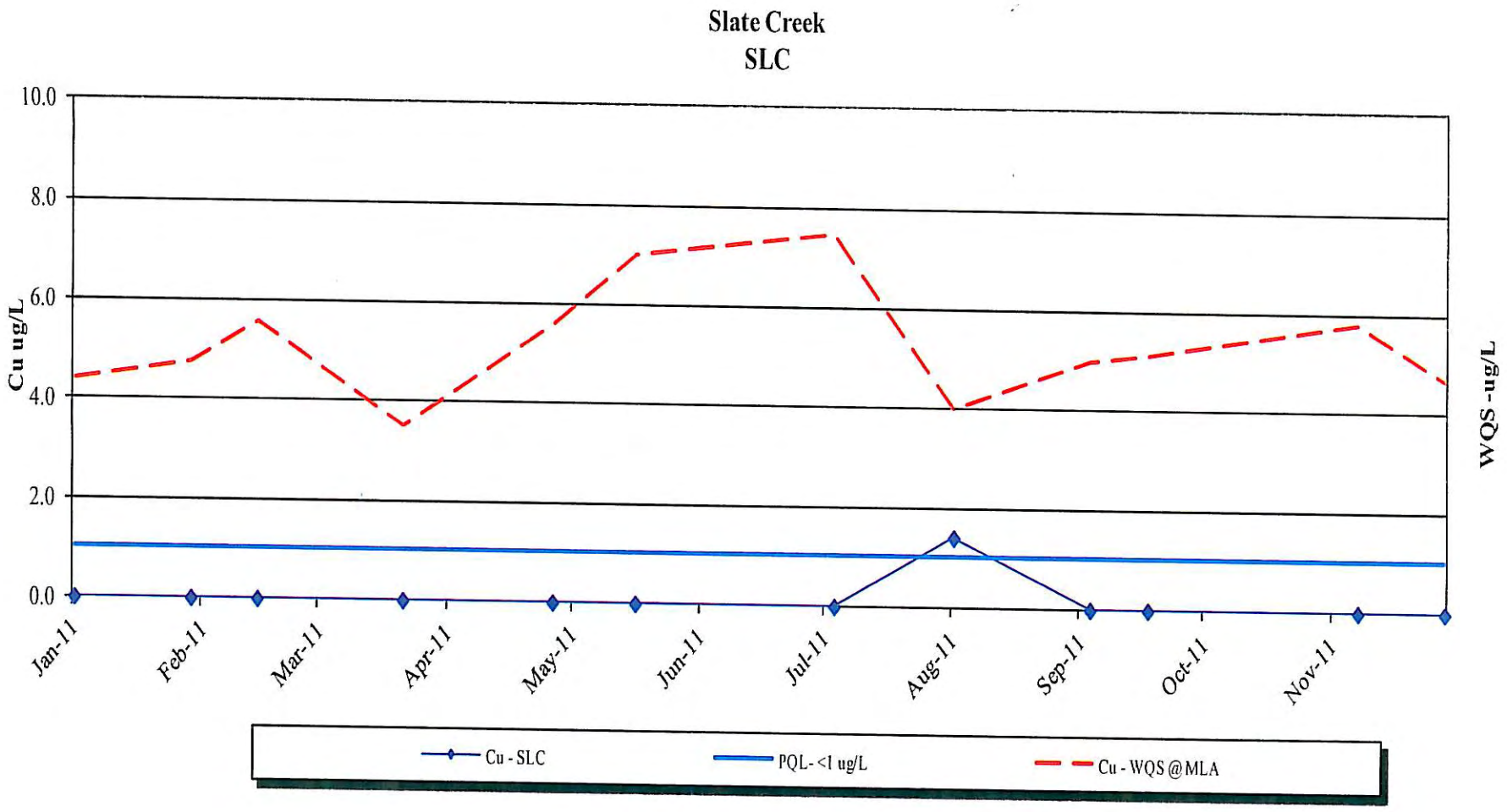

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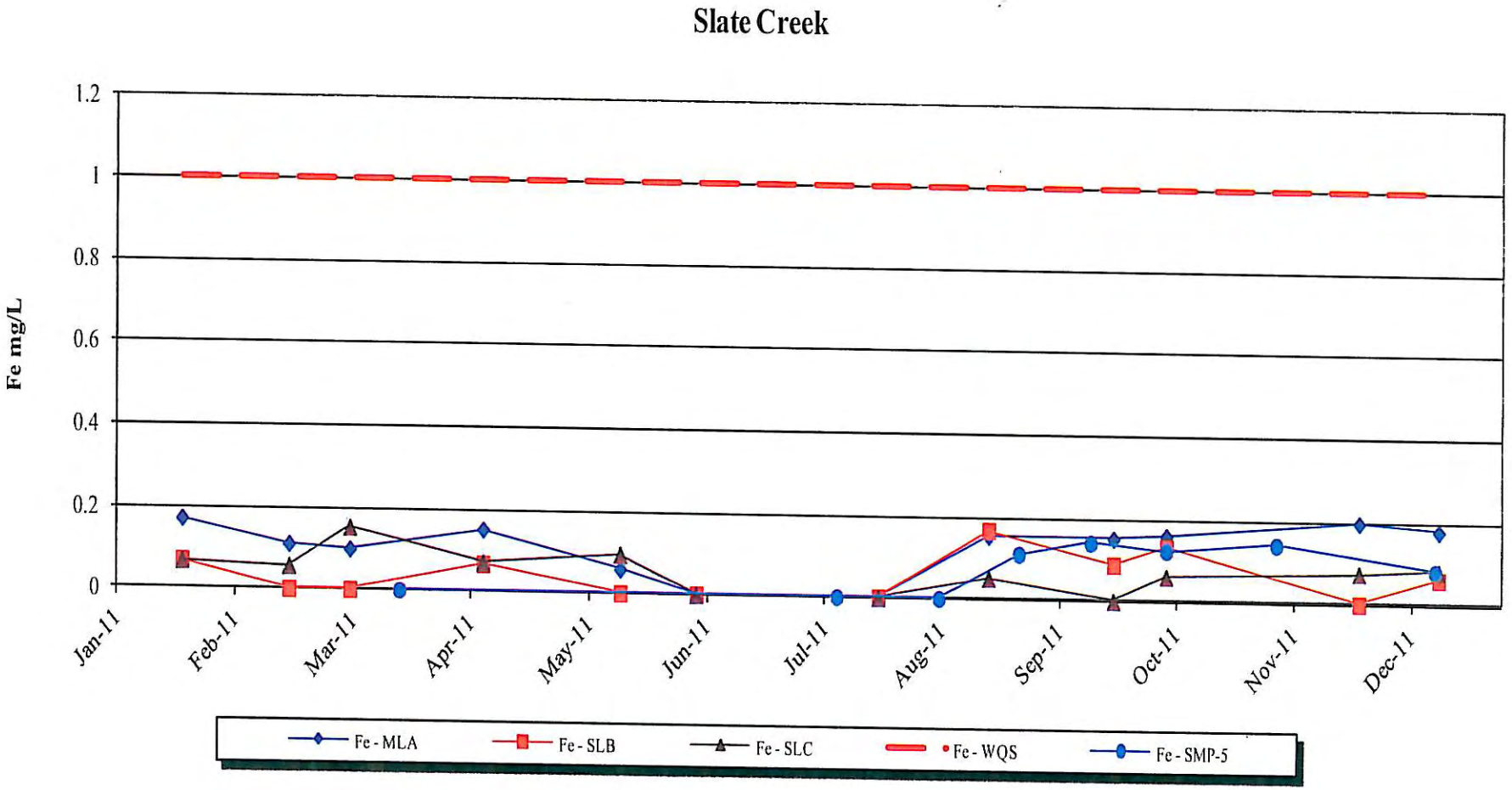

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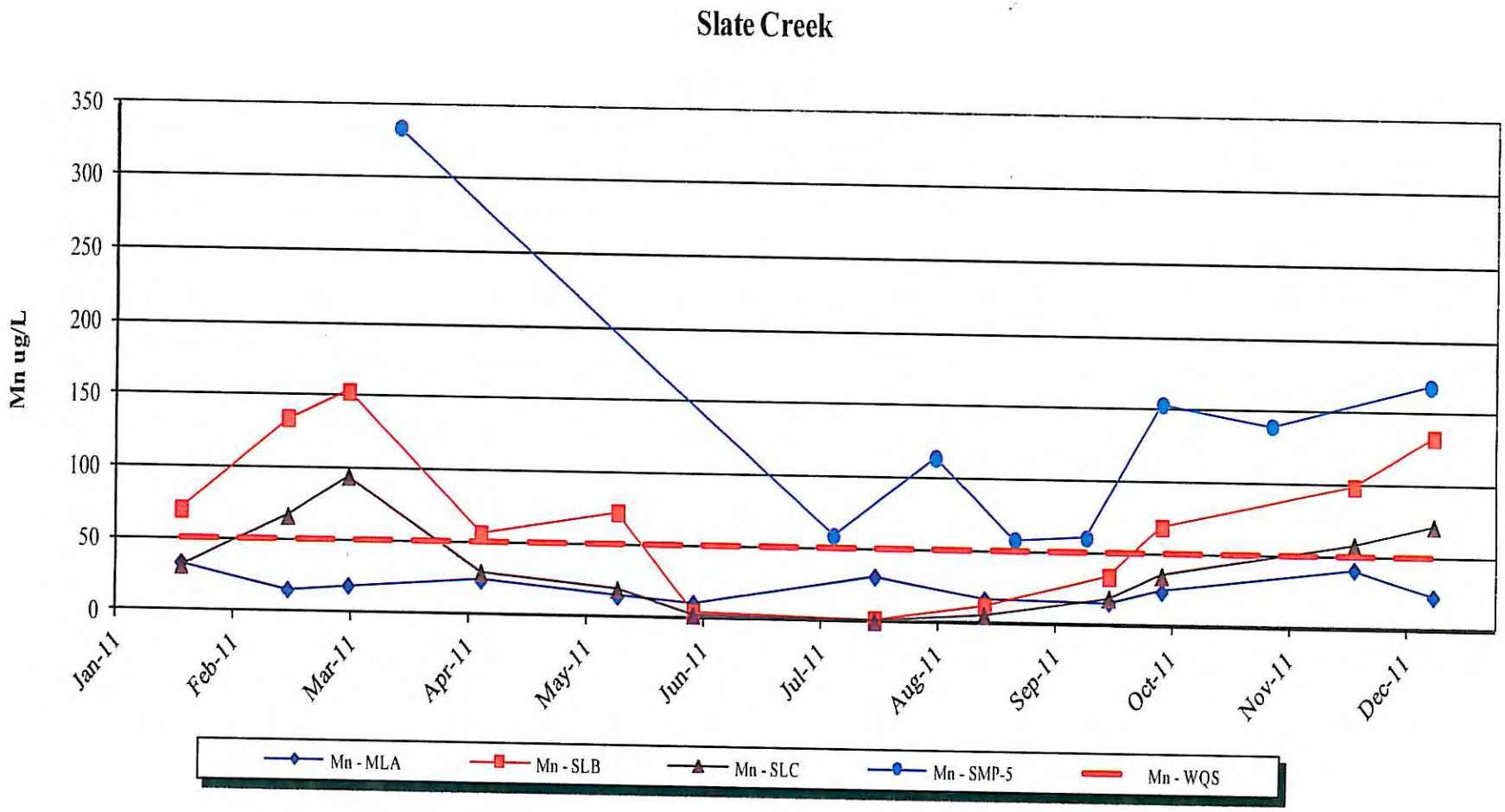

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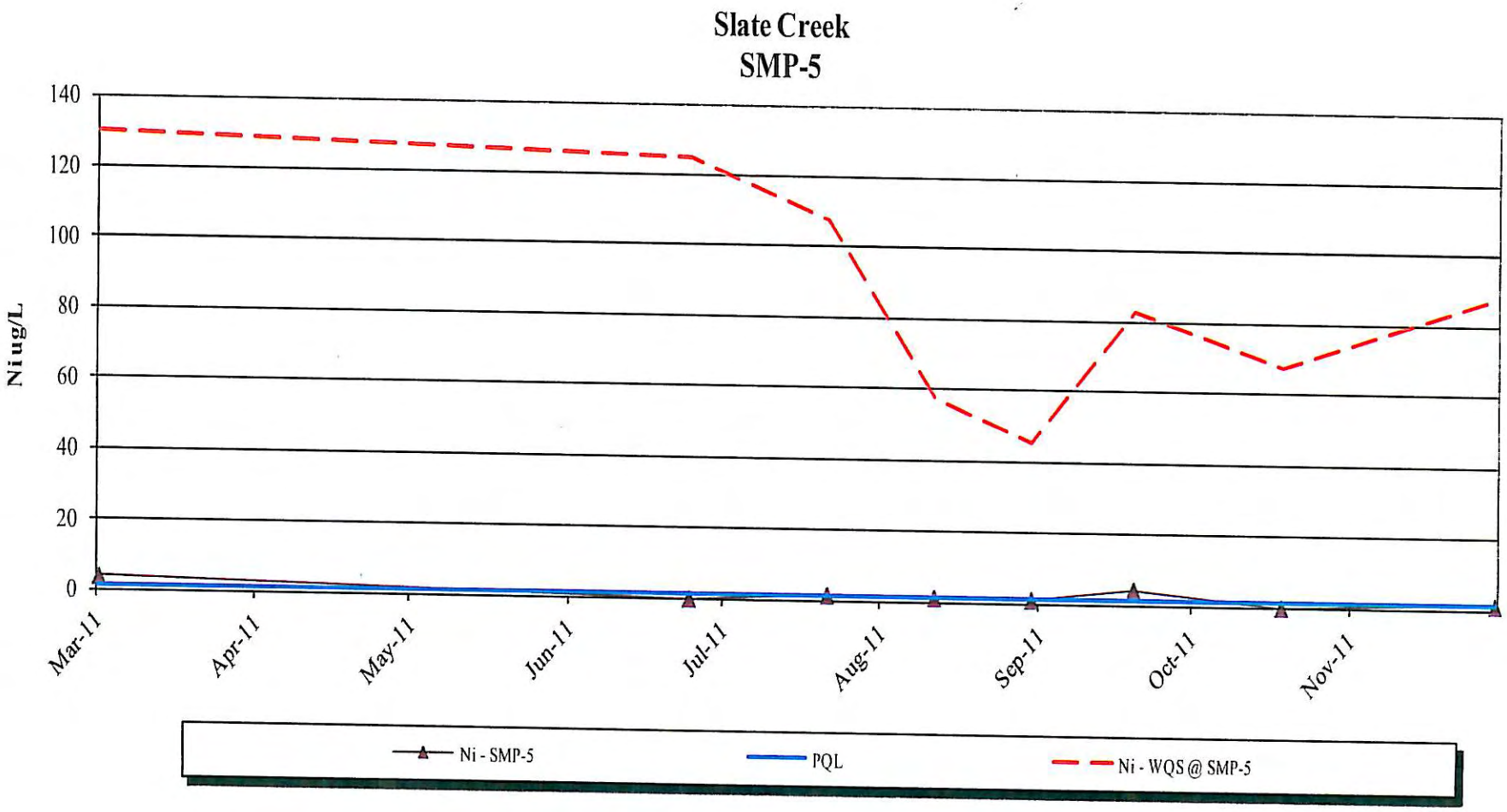

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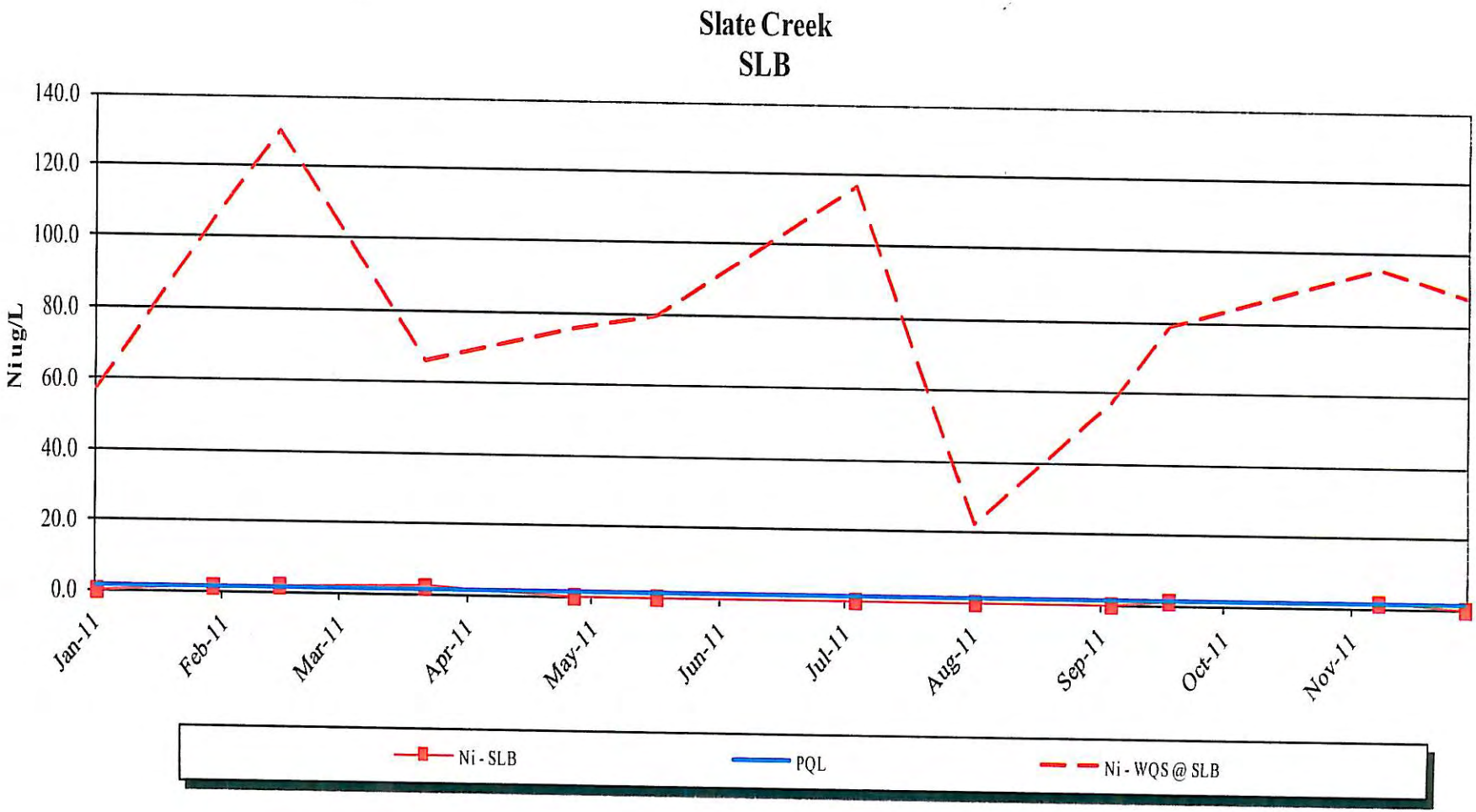

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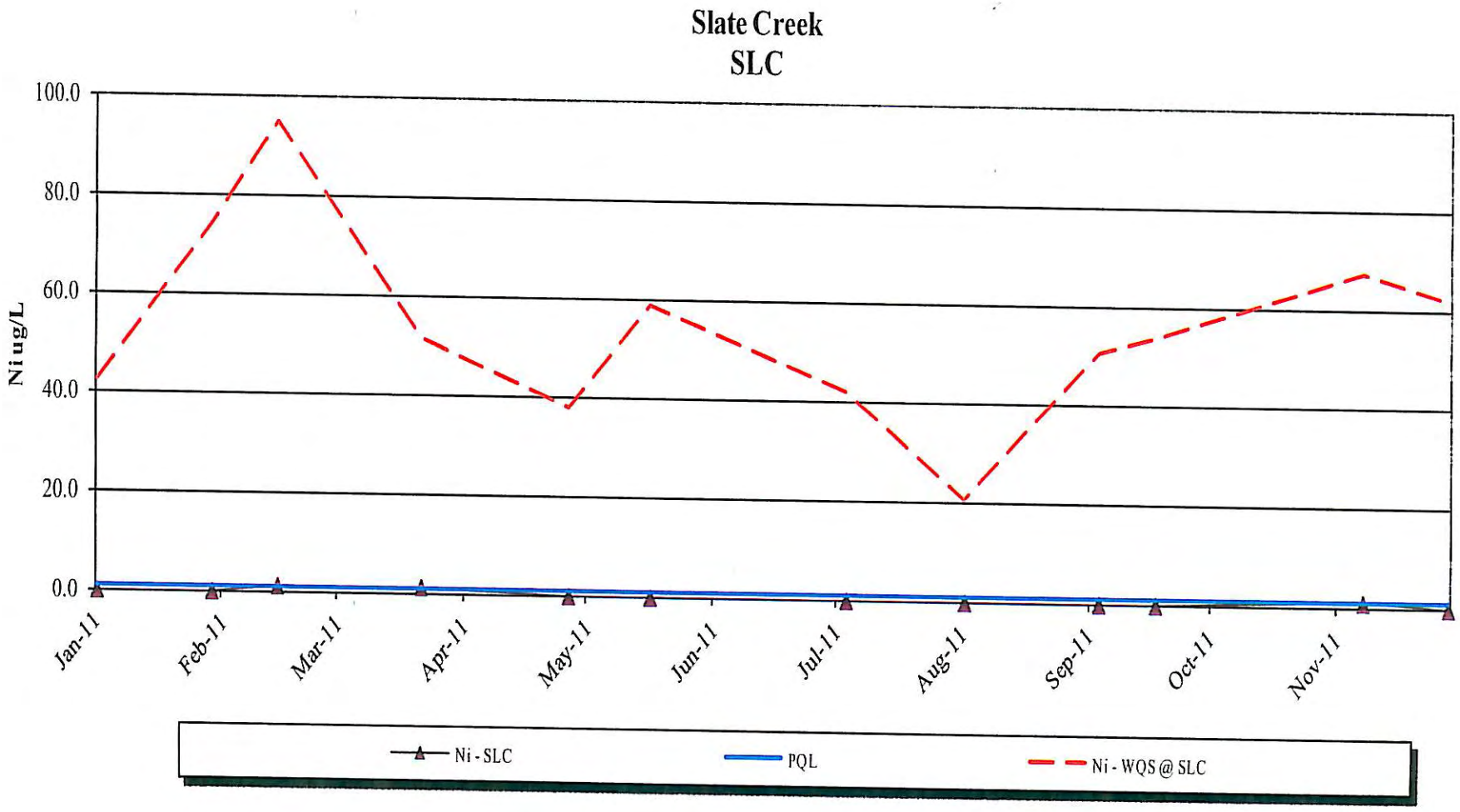

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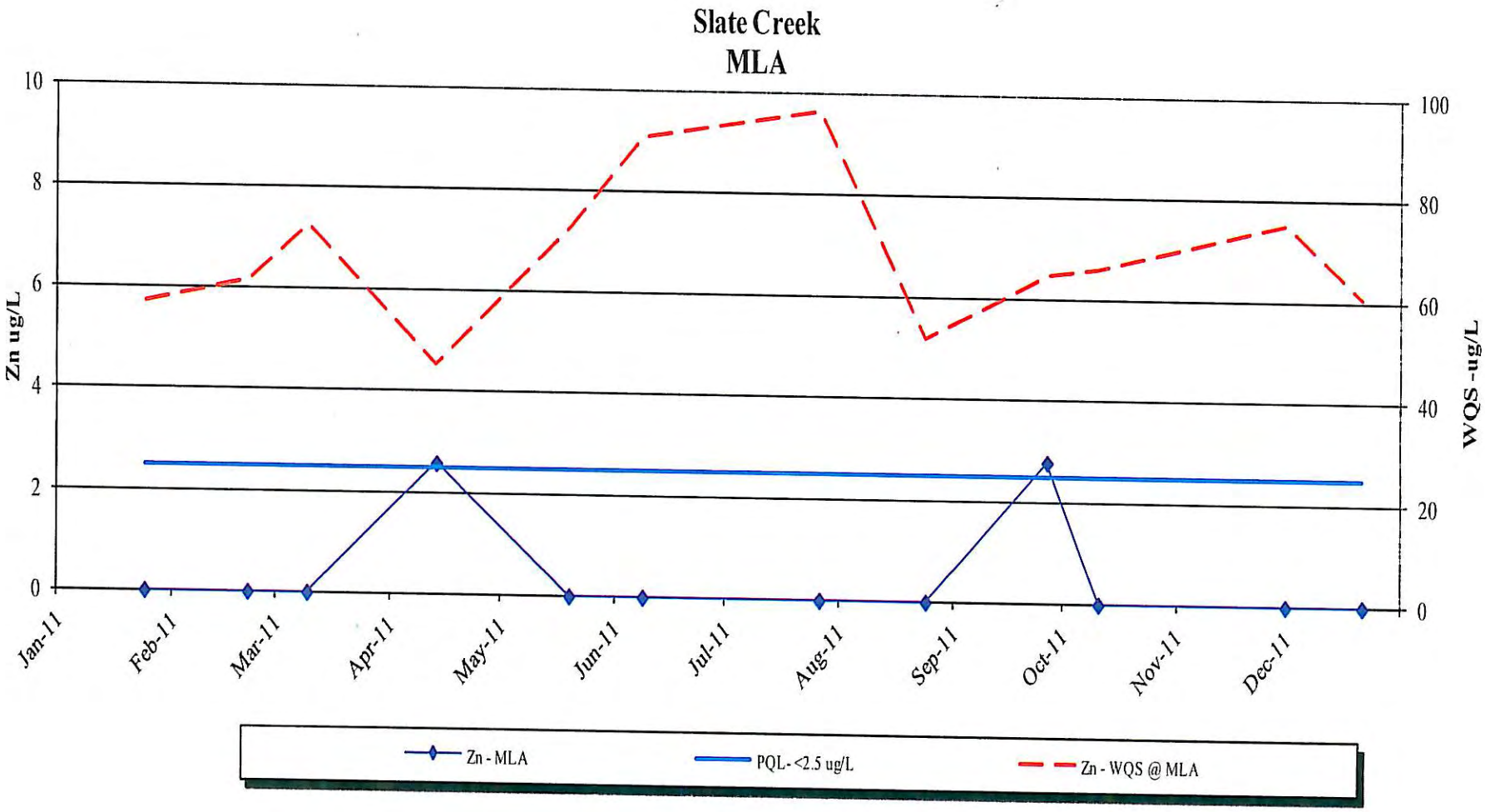


Figure 7c: Slate Creek Monitoring Results 2011, Trace Chemistry

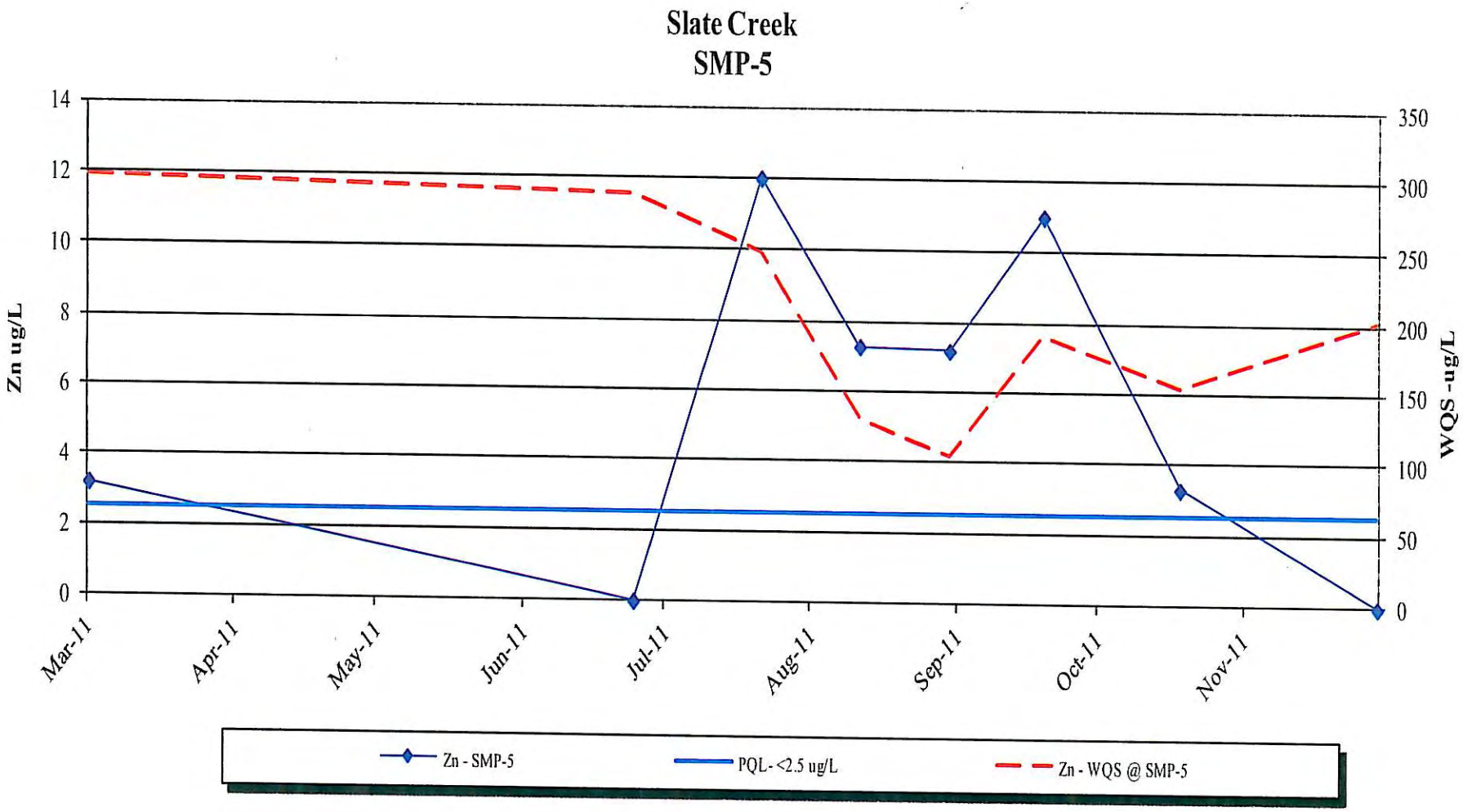


Figure 7c: Slate Creek Monitoring Results 2011, Trace Chemistry

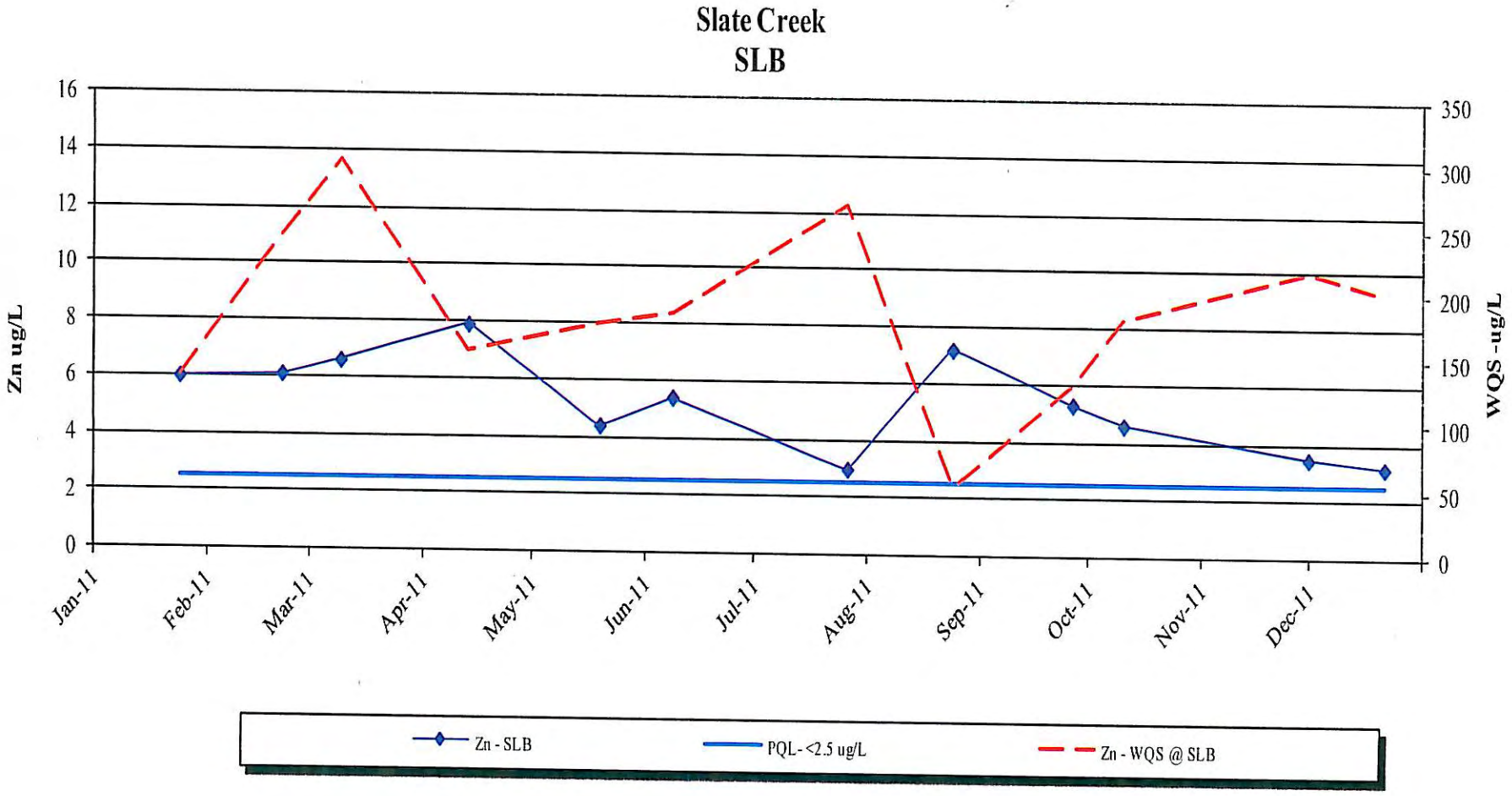


Figure 7c: Slate Creek Monitoring Results 2011, Trace Chemistry

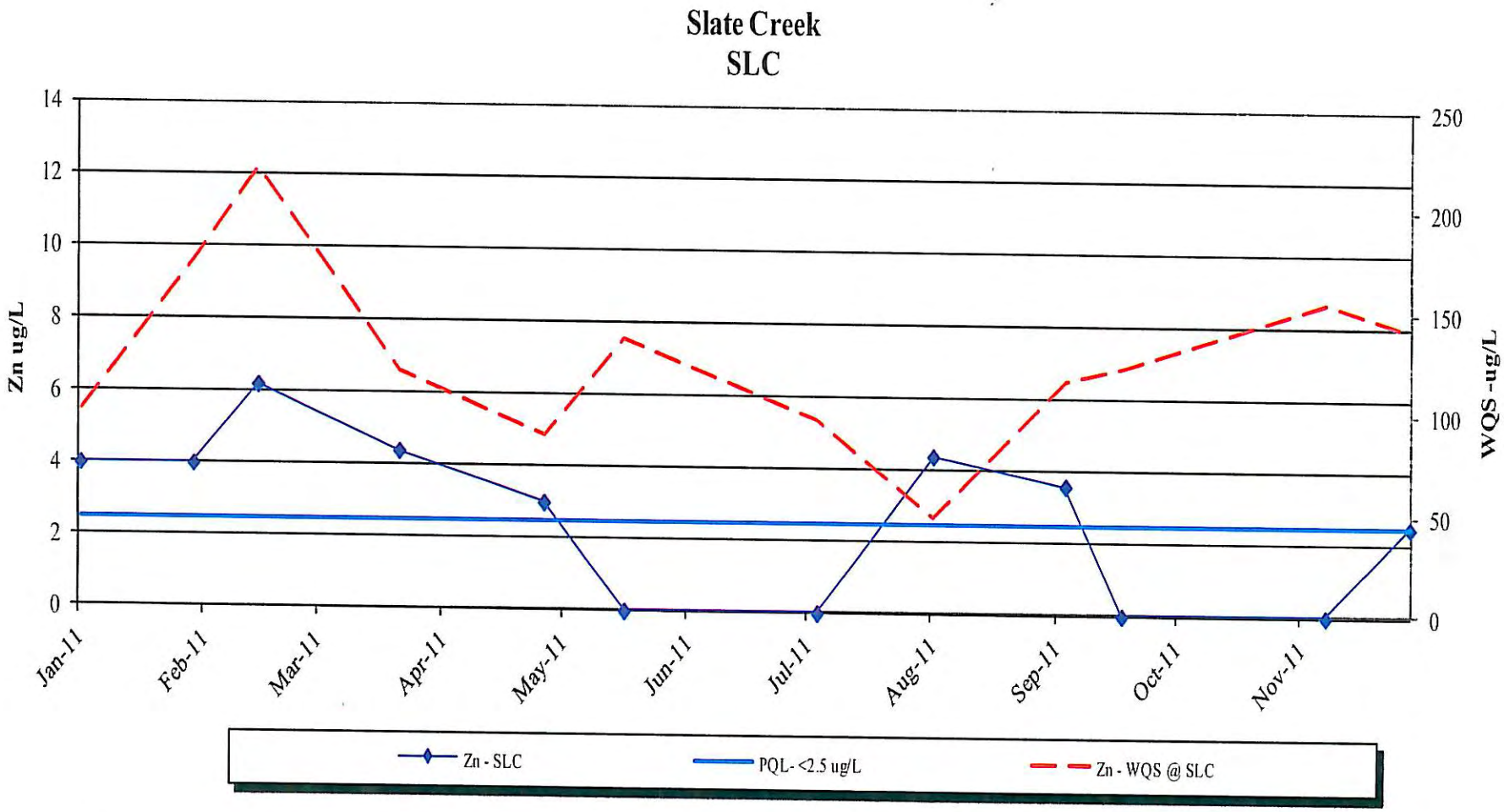


Figure 7c: Slate Creek Monitoring Results 2011, Trace Chemistry

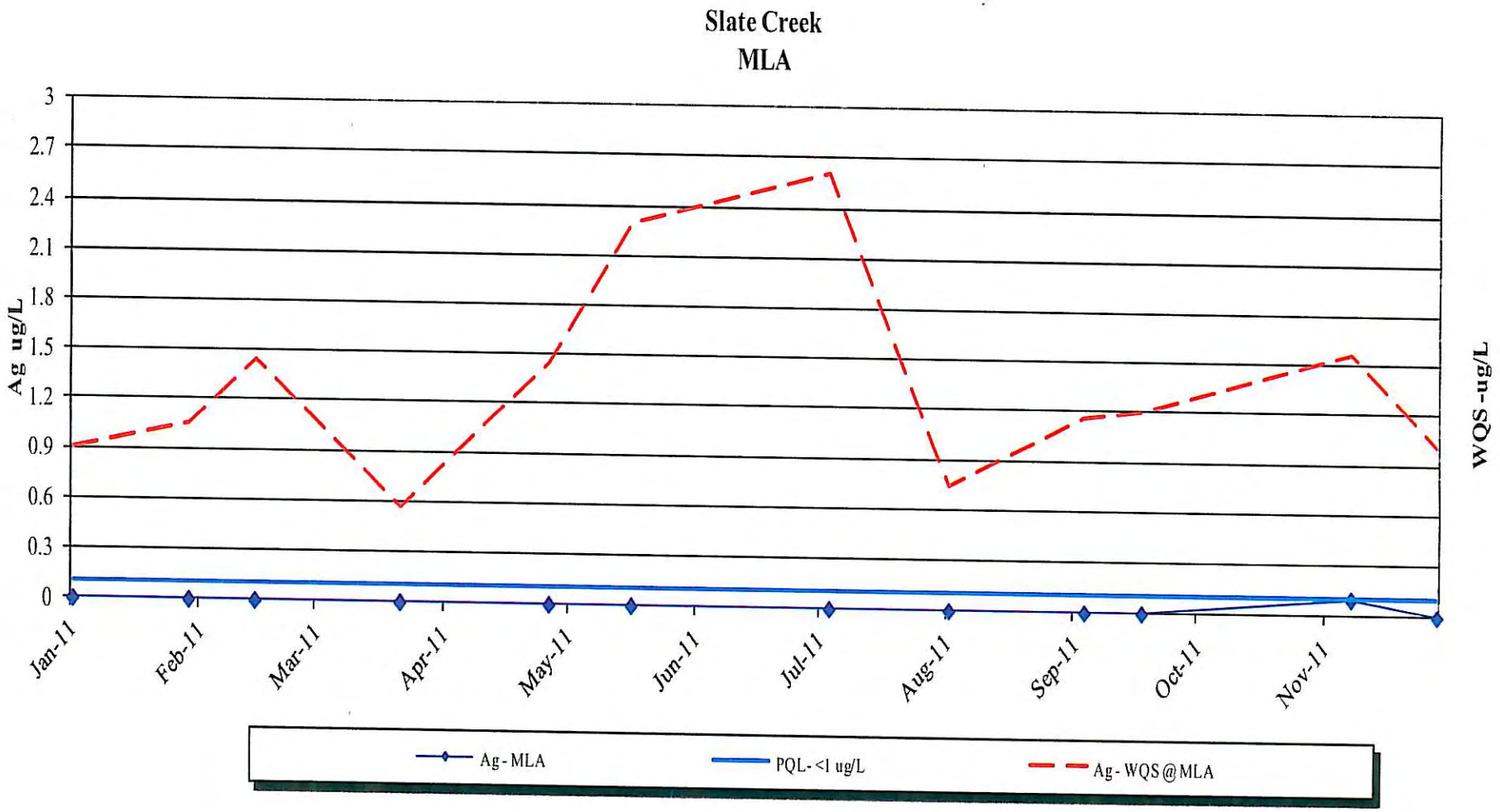


Figure 7c: Slate Creek Monitoring Results 2011, Trace Chemistry

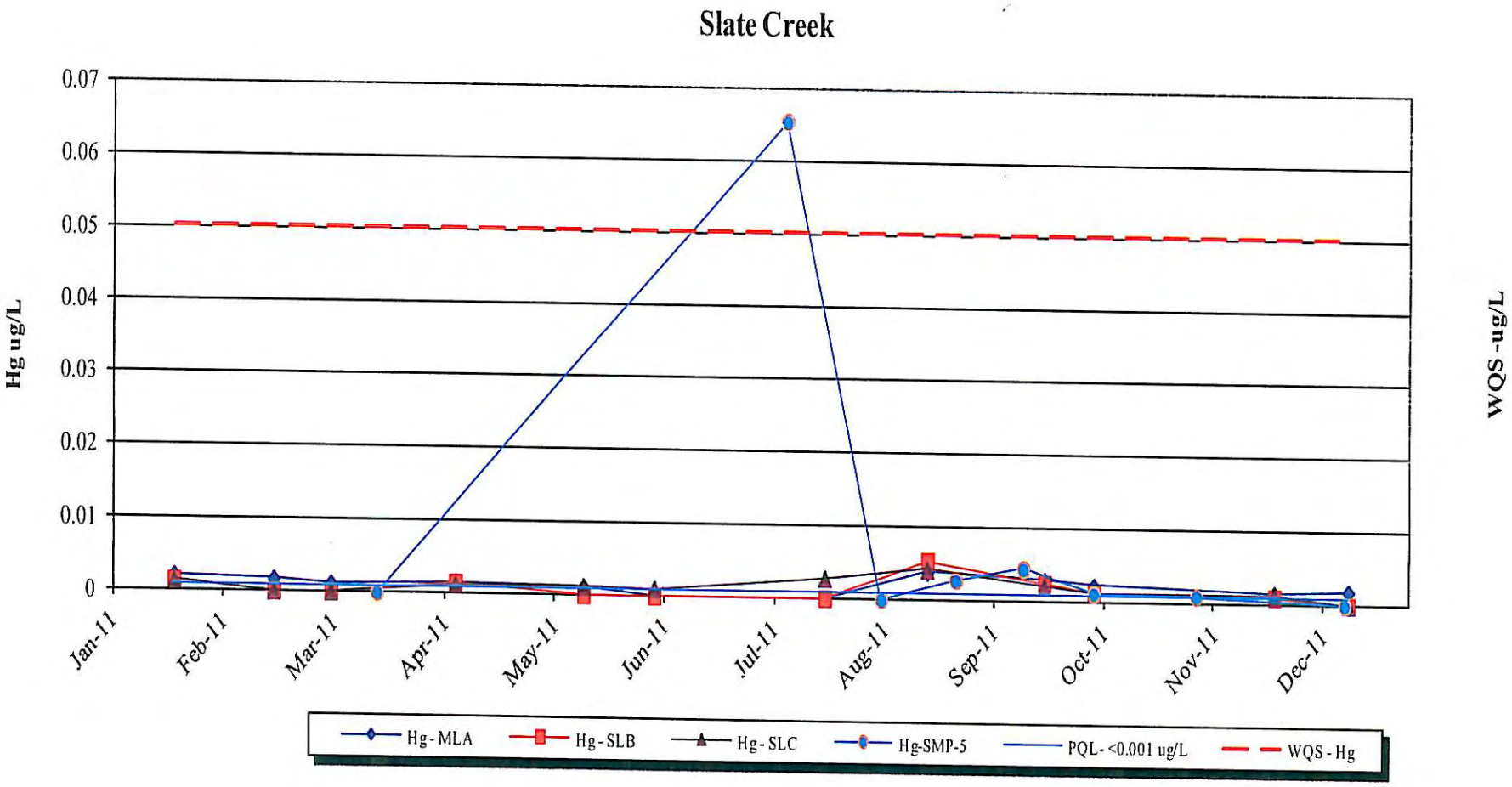


Figure 7c: Slate Creek Monitoring Results 2011, Major Chemistry

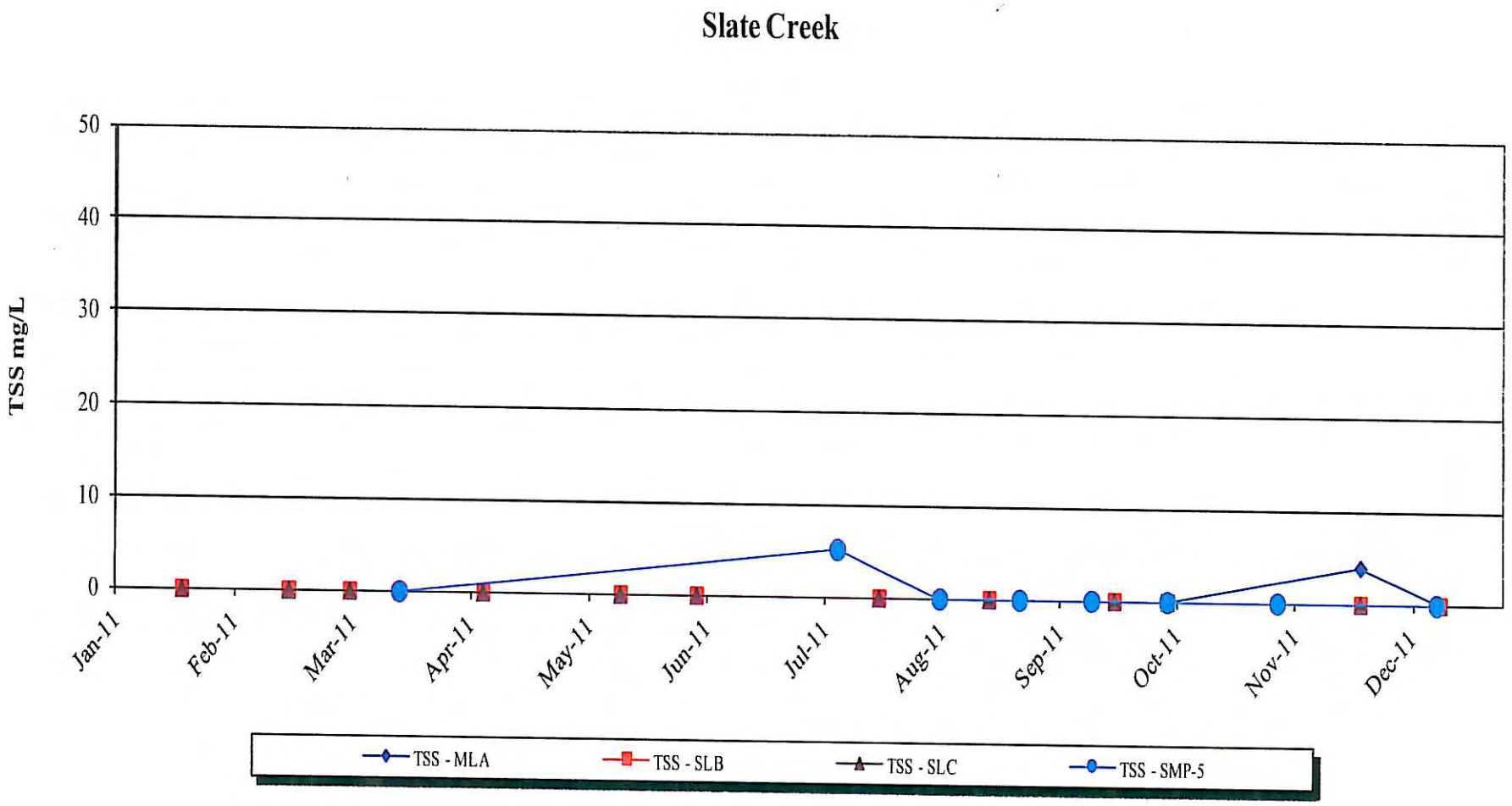


Figure 8a: Sherman Creek Monitoring Results 2011, Field Parameters

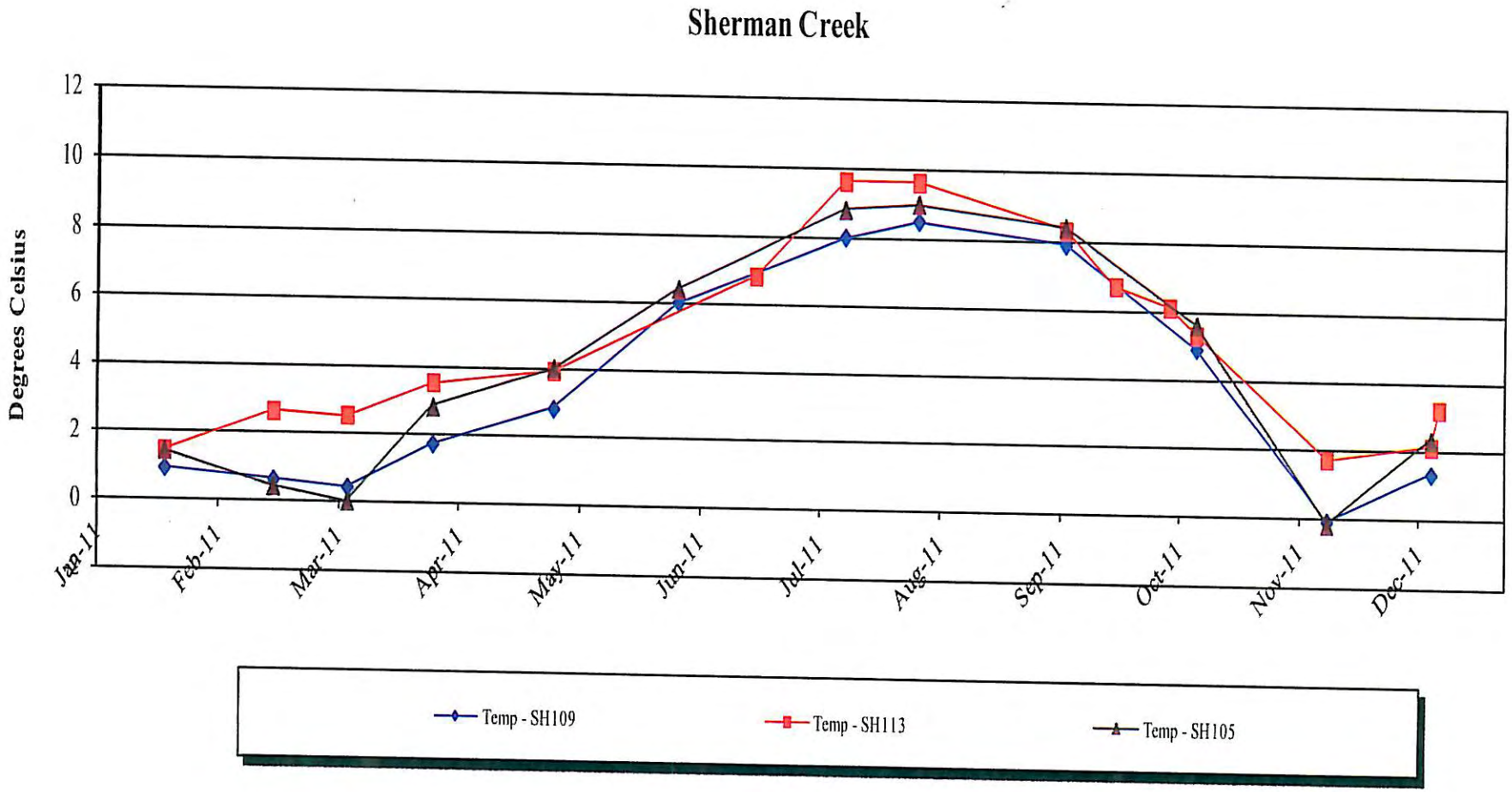
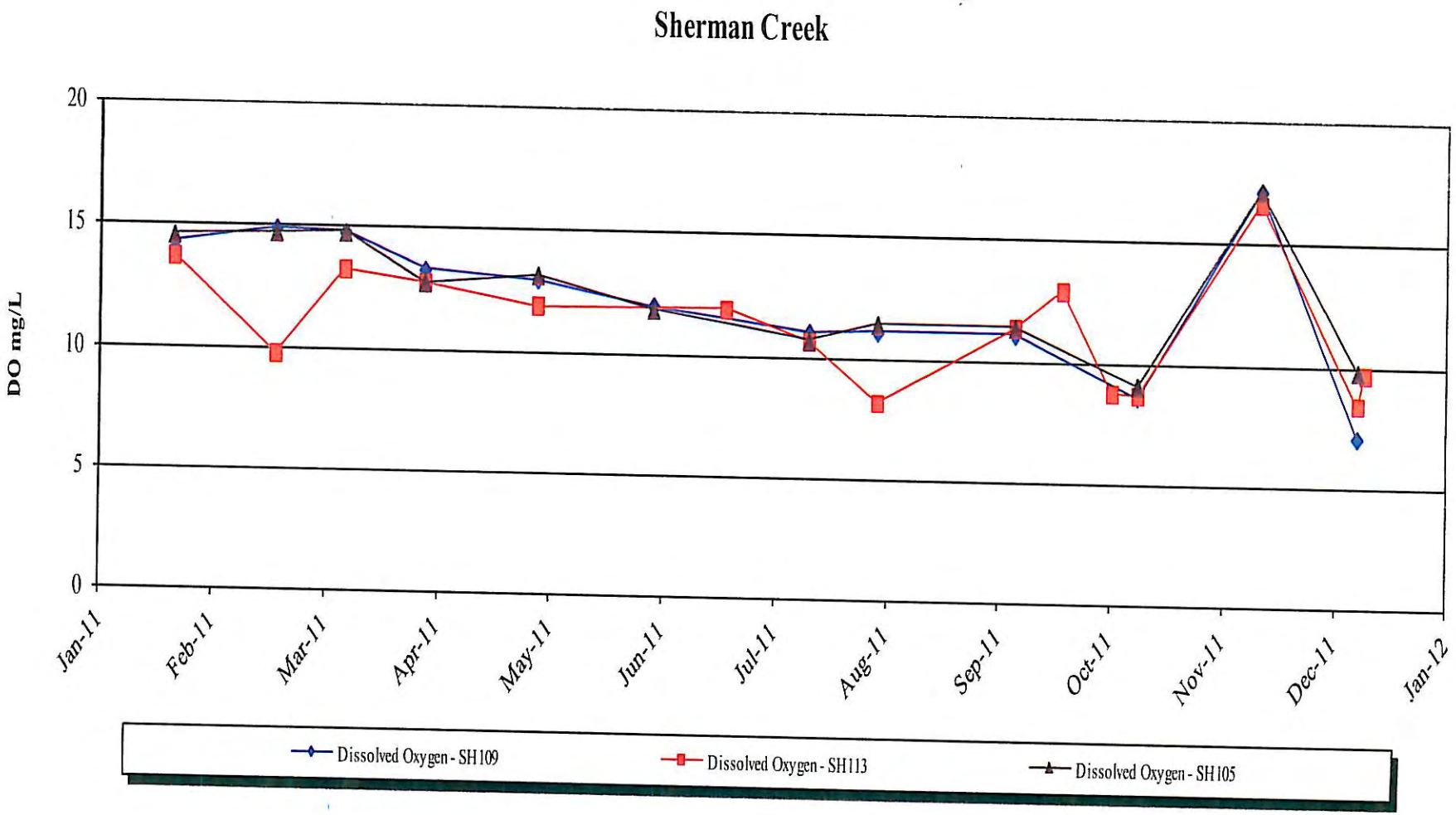


Figure 8a: Sherman Creek Monitoring Results 2011, Field Parameters



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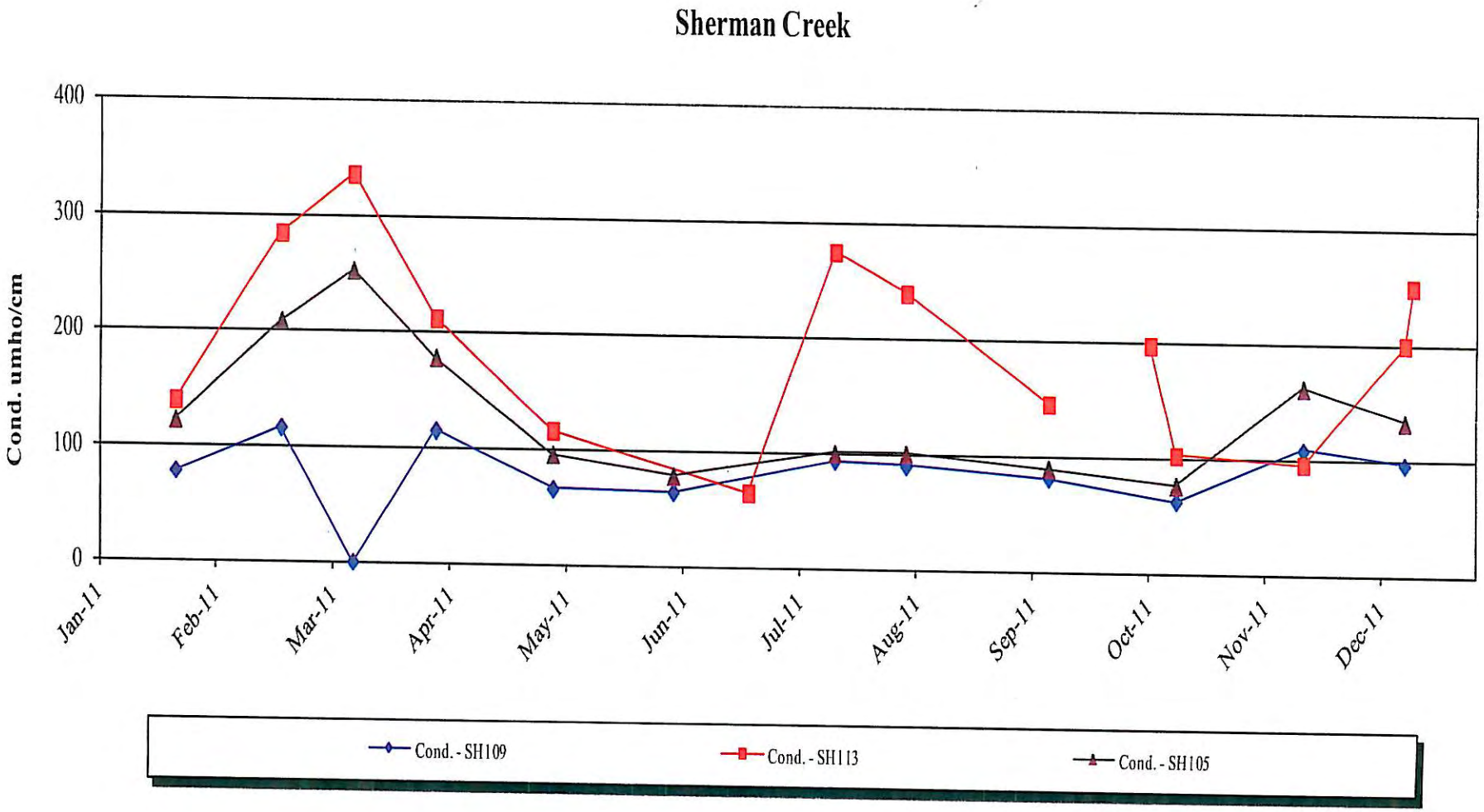


Figure 8a: Sherman Creek Monitoring Results 2011, Field Parameters

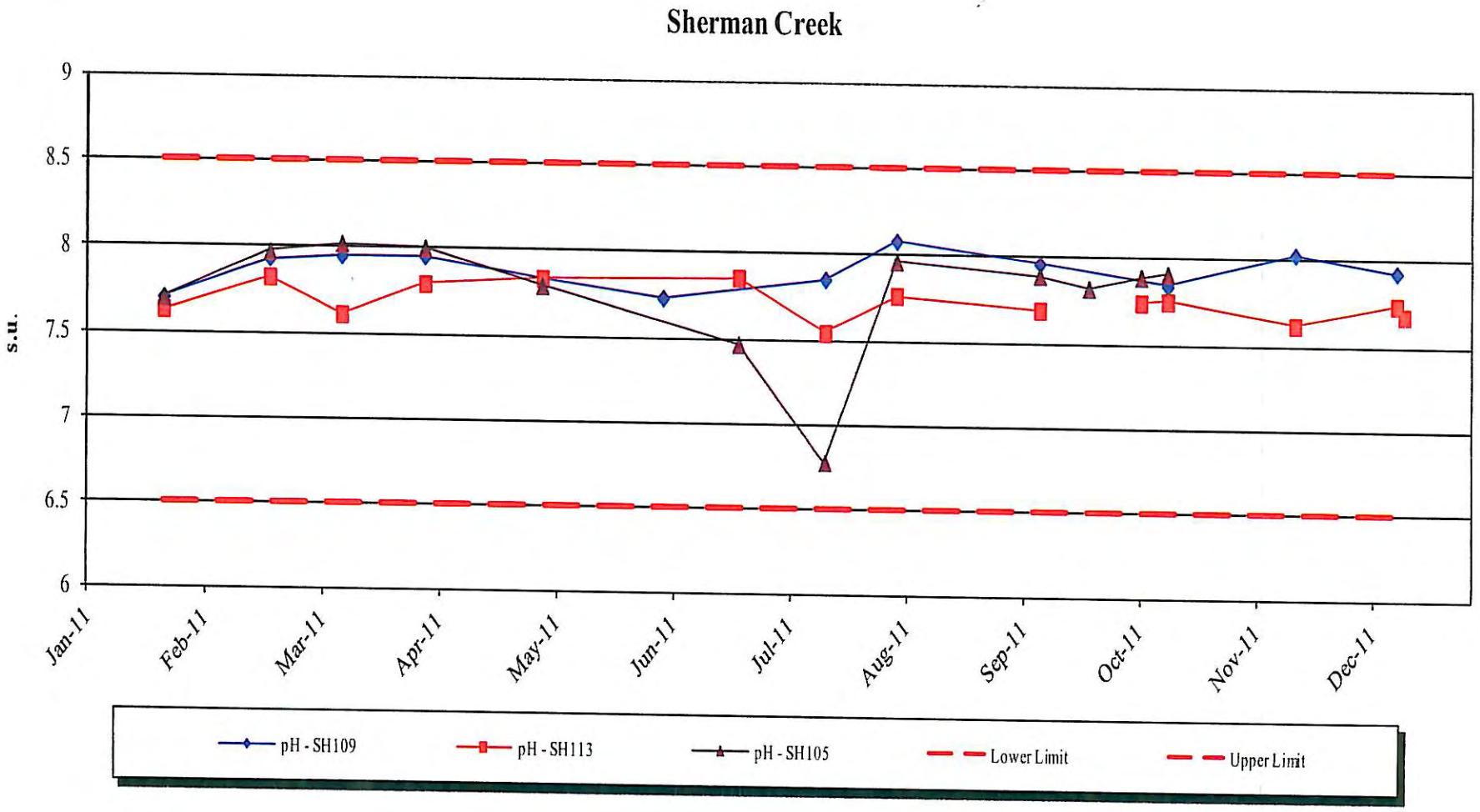


Figure 8b: Sherman Creek Monitoring Results 2011, Major Chemistry

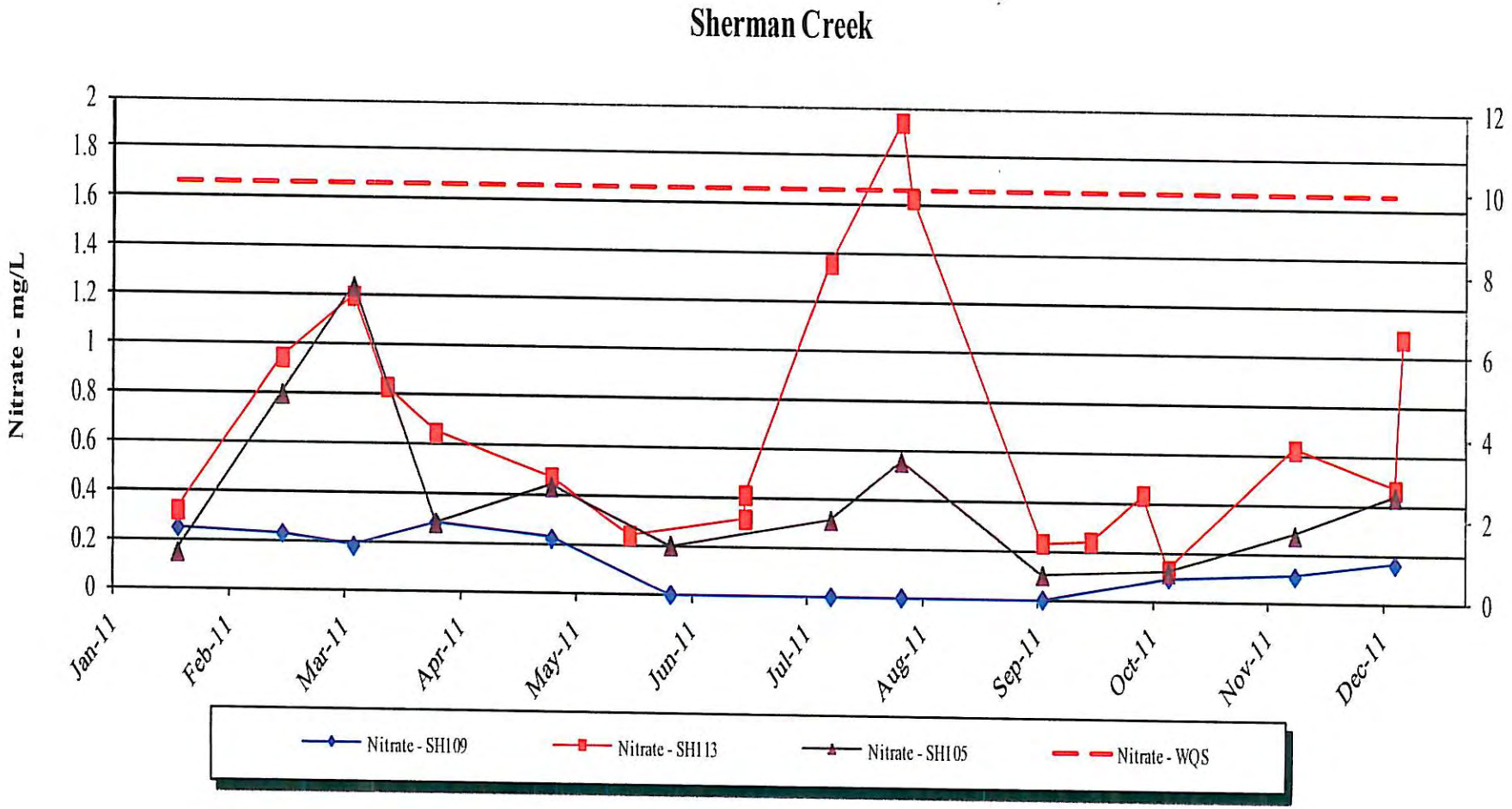


Figure 8b: Sherman Creek Monitoring Results 2011, Major Chemistry

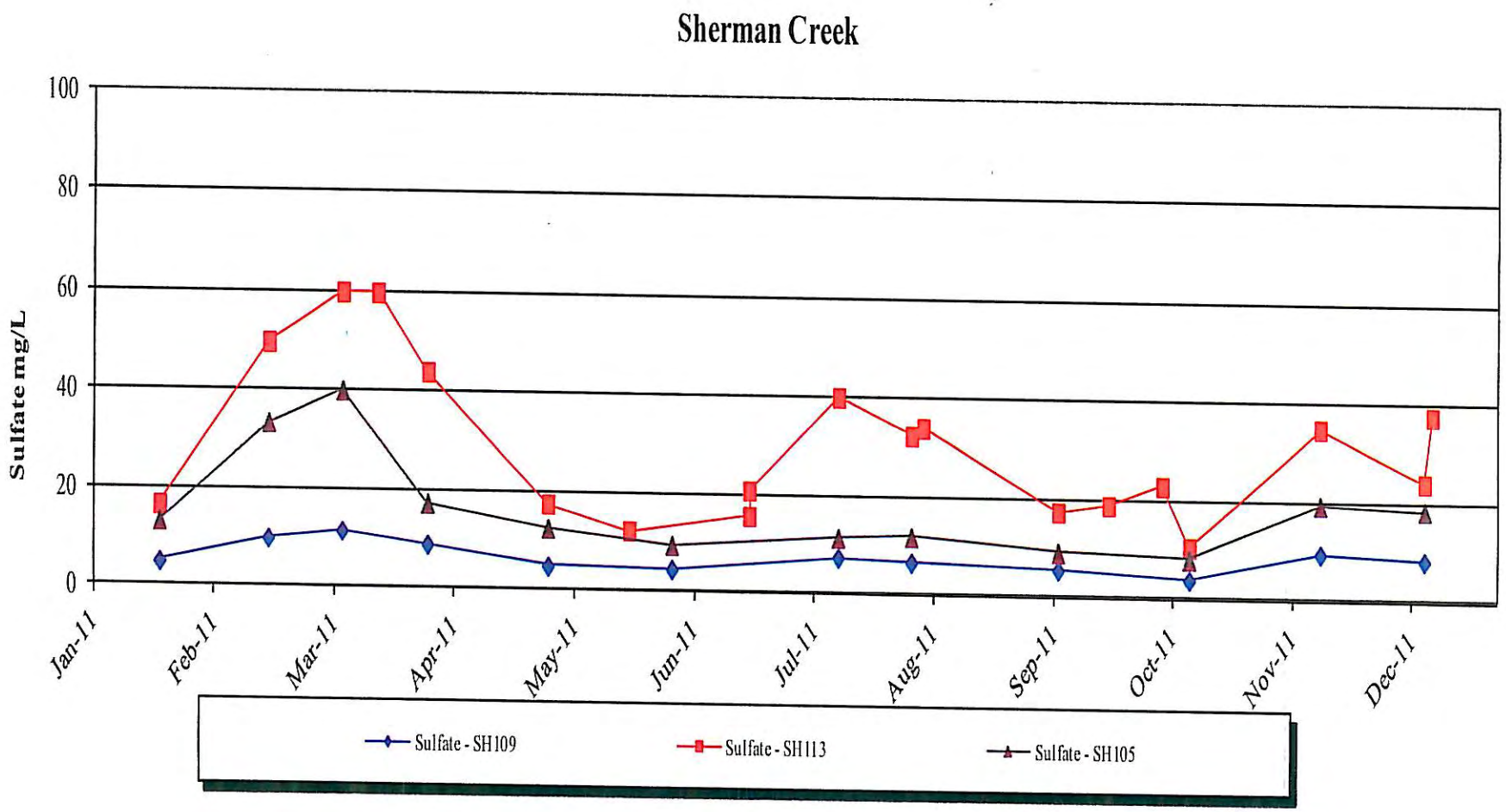


Figure 8b: Sherman Creek Monitoring Results 2011, Major Chemistry

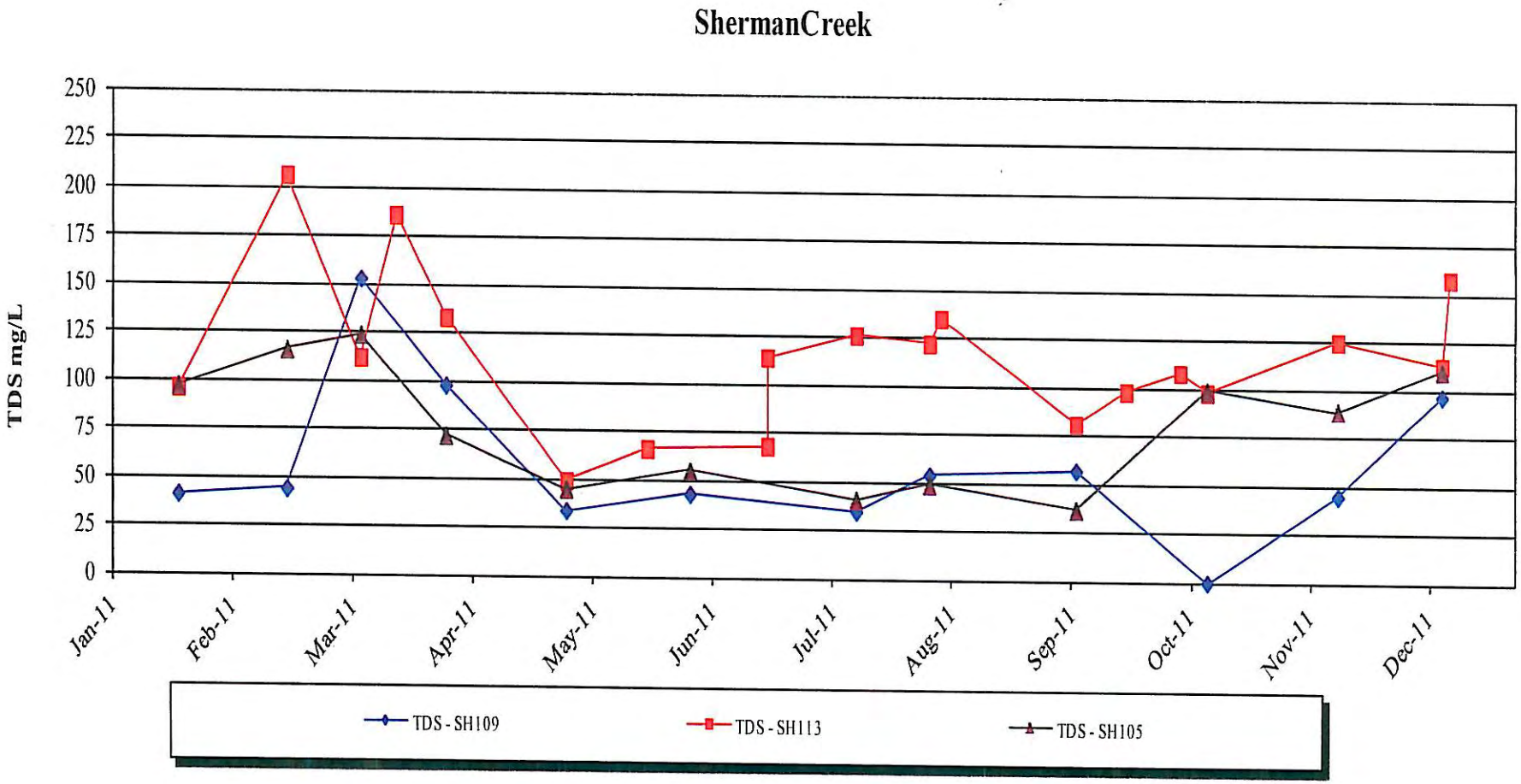
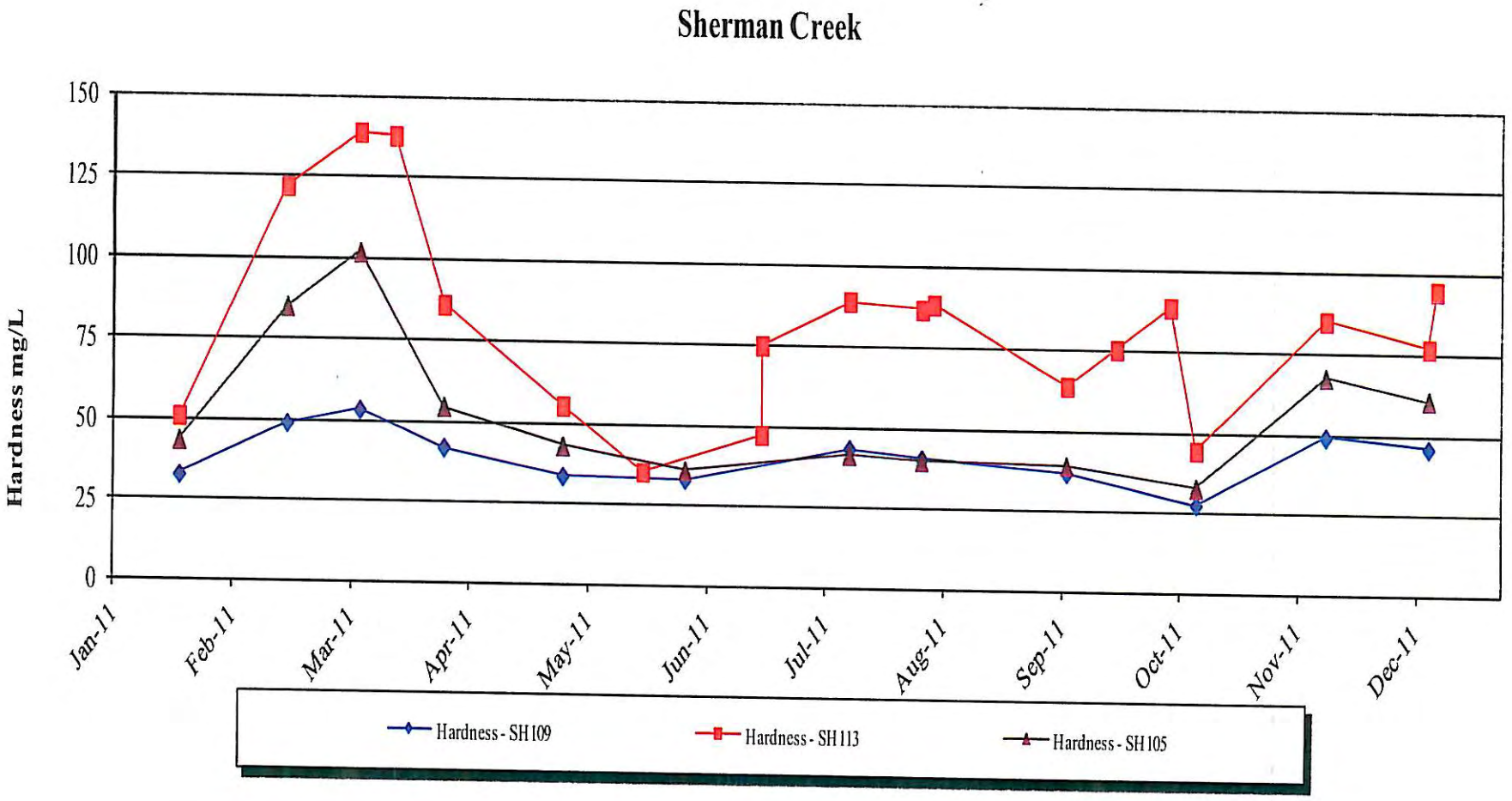


Figure 8b: Sherman Creek Monitoring Results 2011, Major Chemistry



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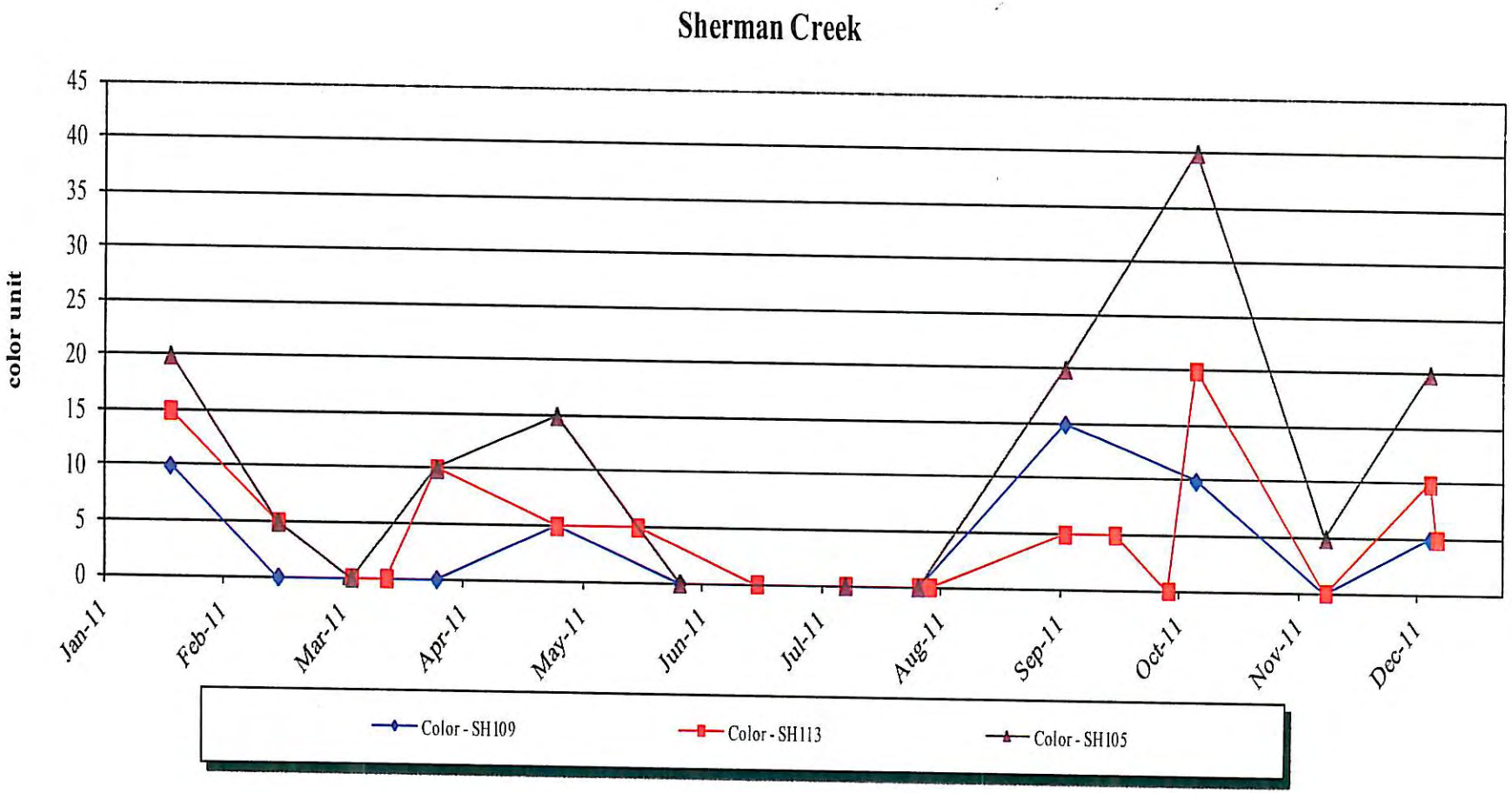


Figure 8b: Sherman Creek Monitoring Results 2011, Major Chemistry

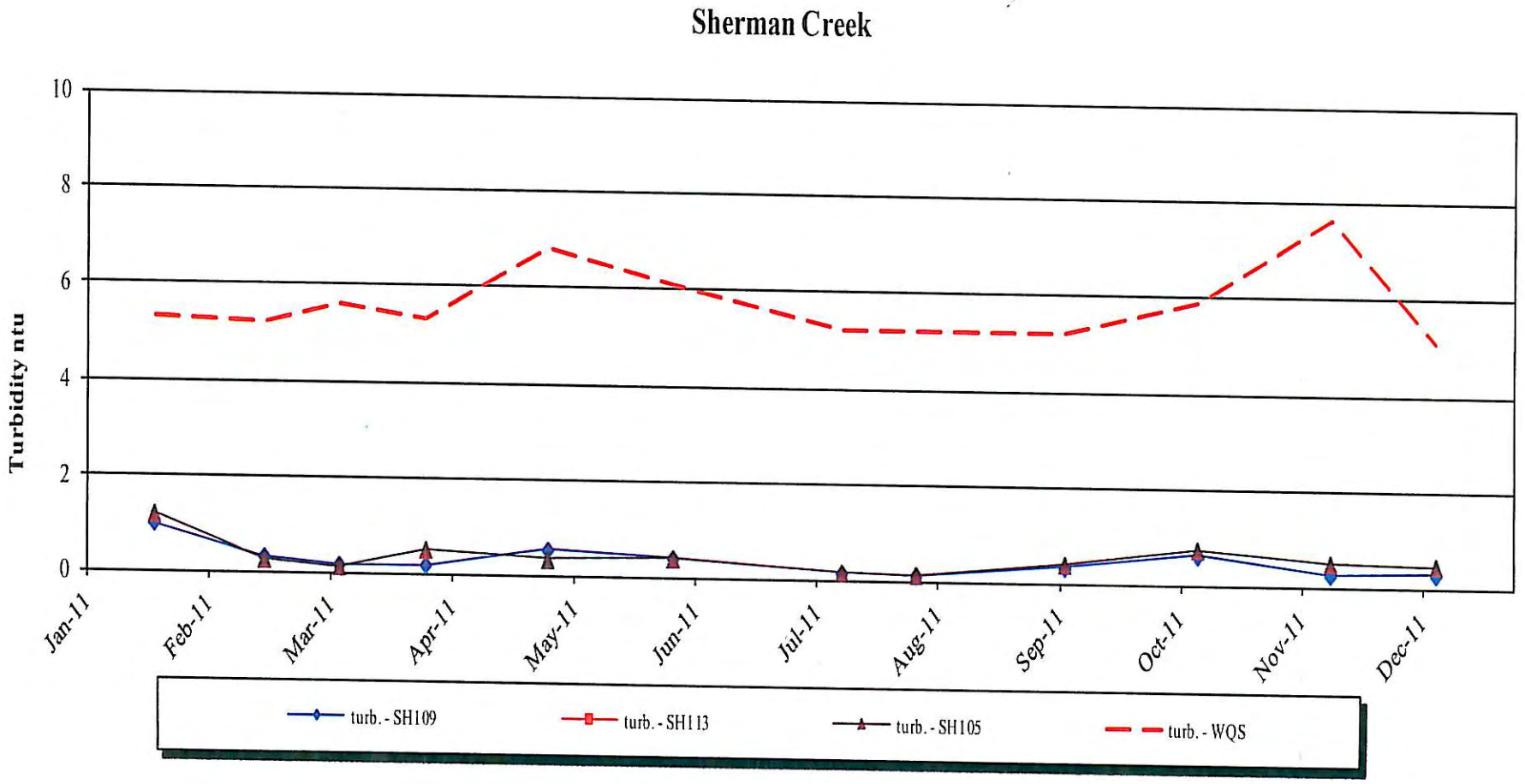
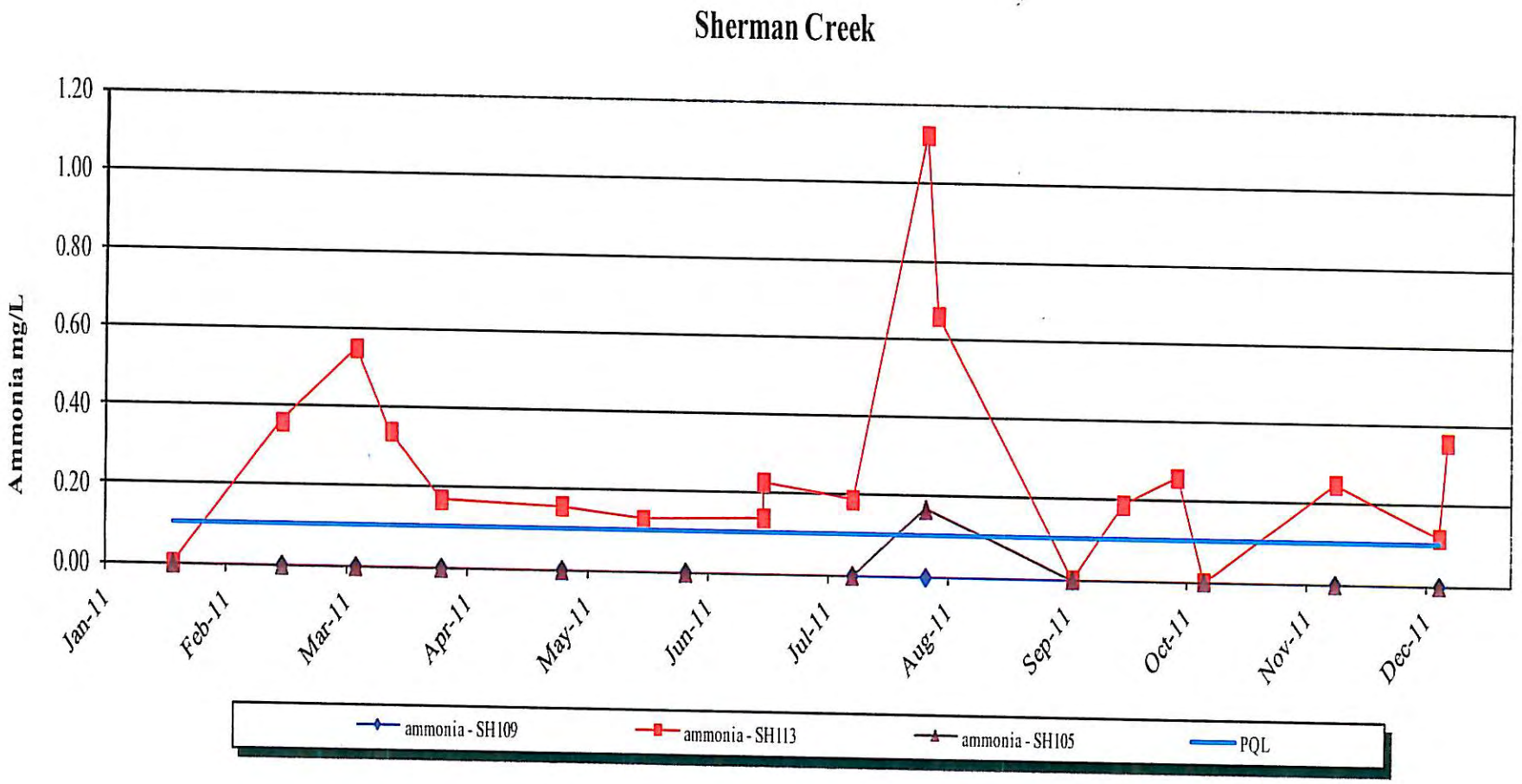


Figure 8b: Sherman Creek Monitoring Results 2011, Major Chemistry



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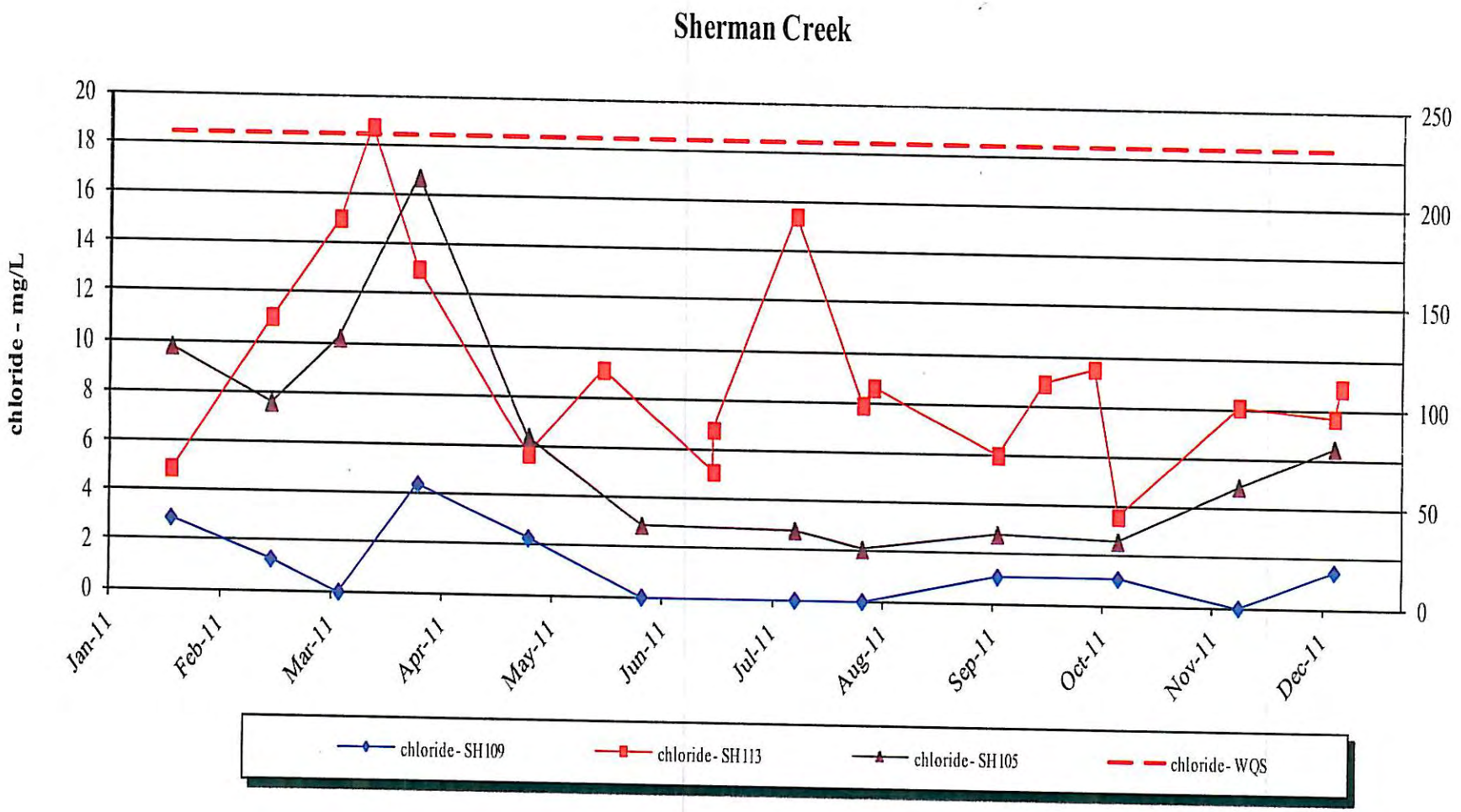

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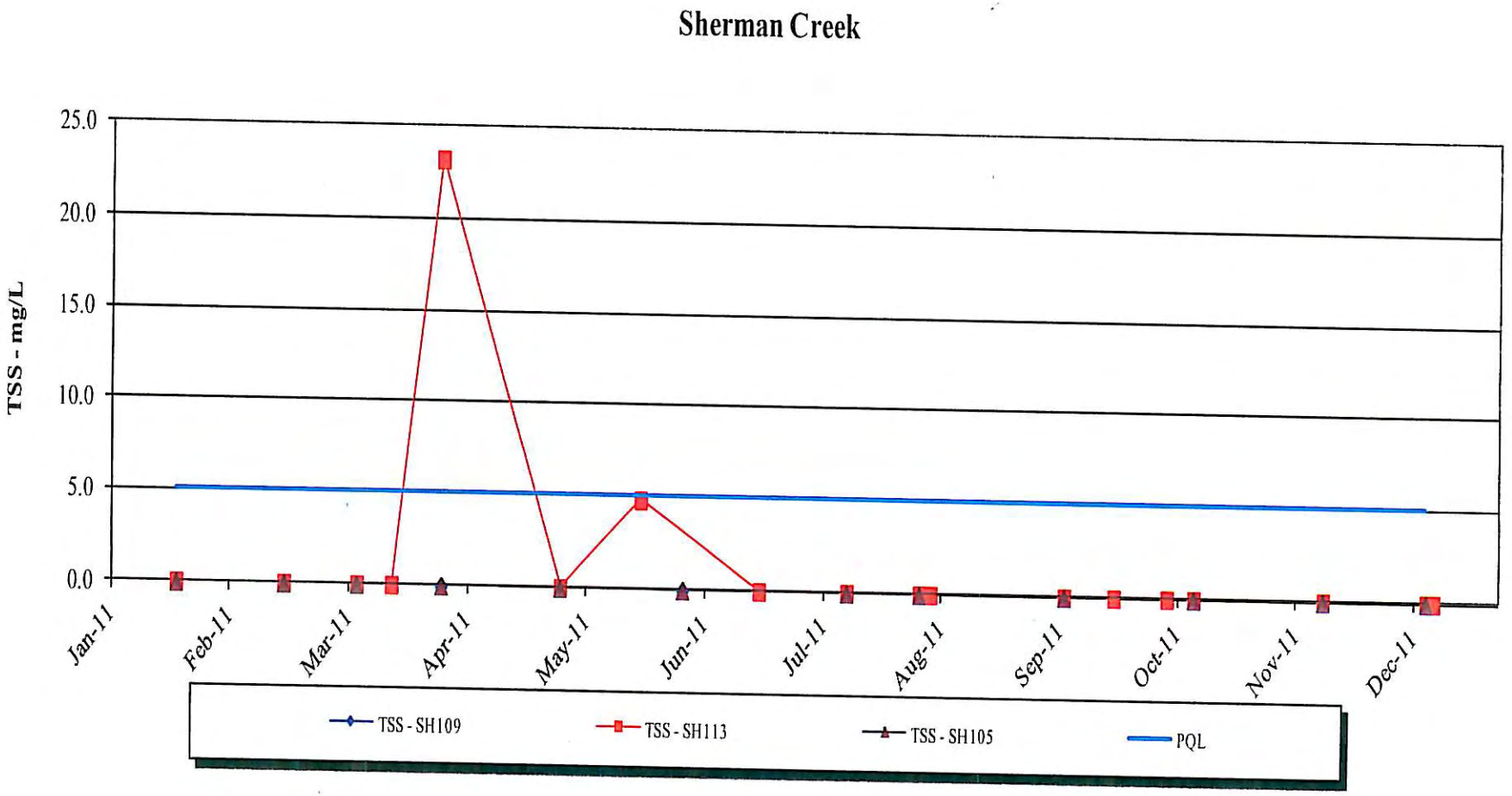
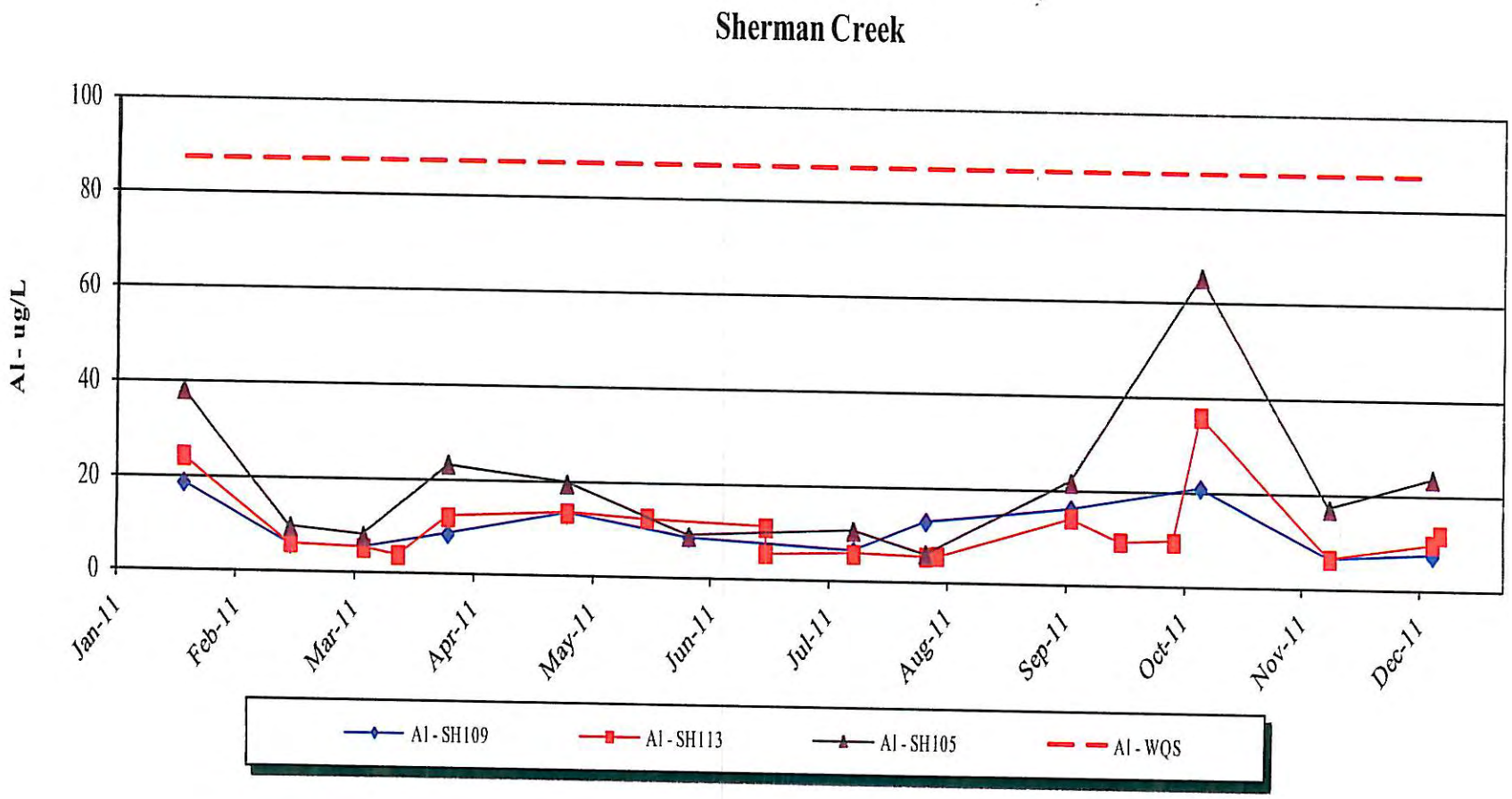


Figure 8c: Sherman Creek Monitoring Results 2011, Trace Chemistry



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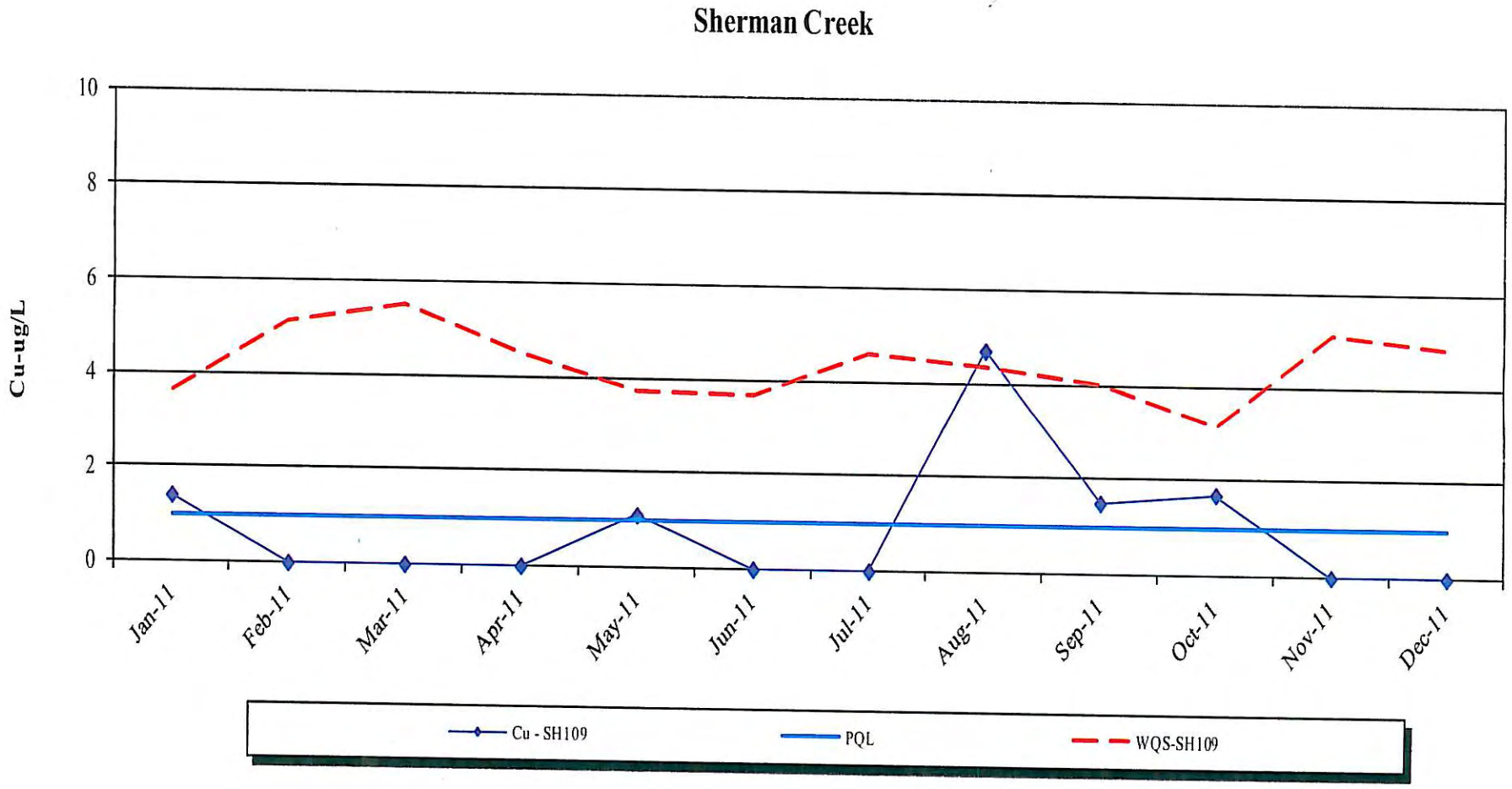

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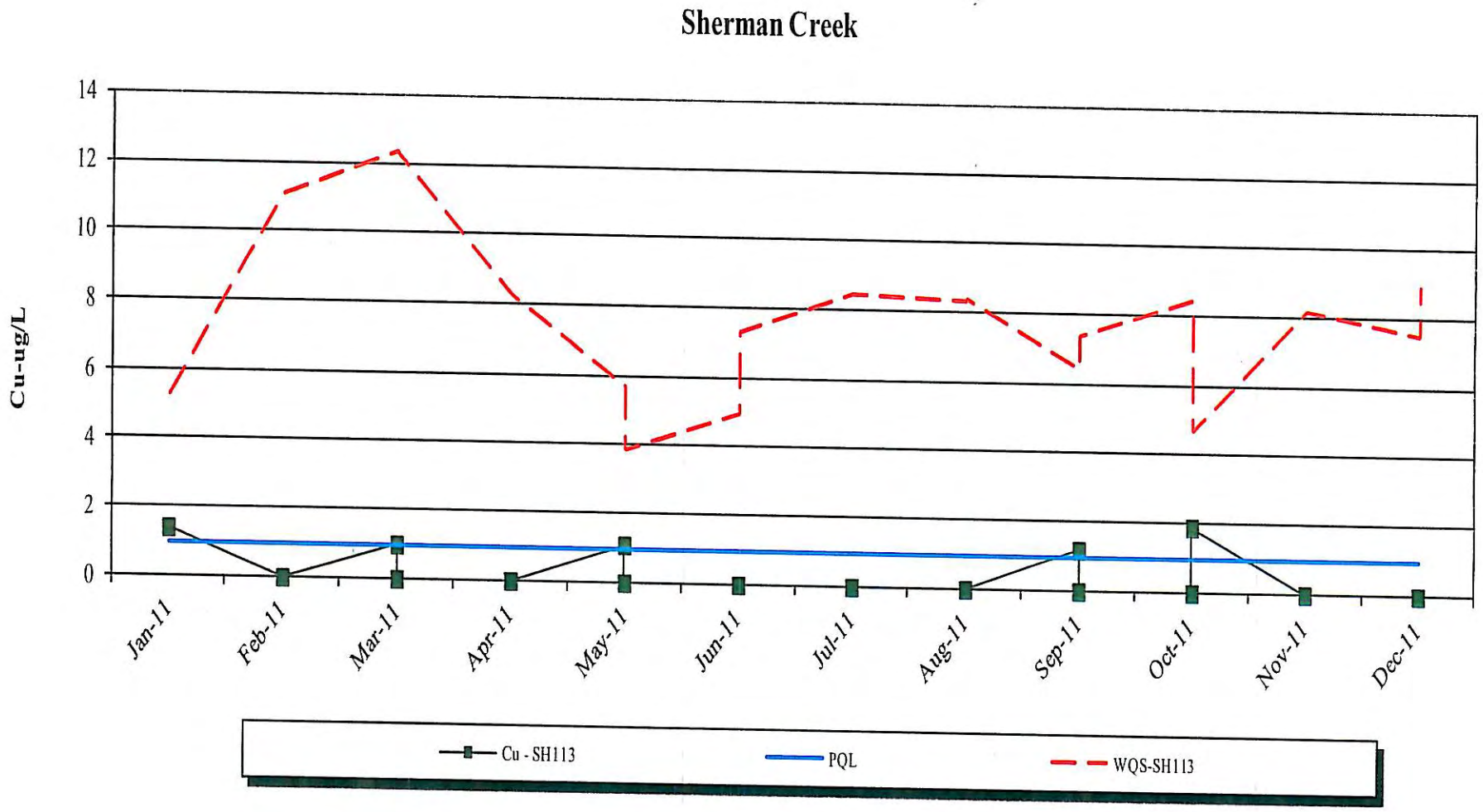

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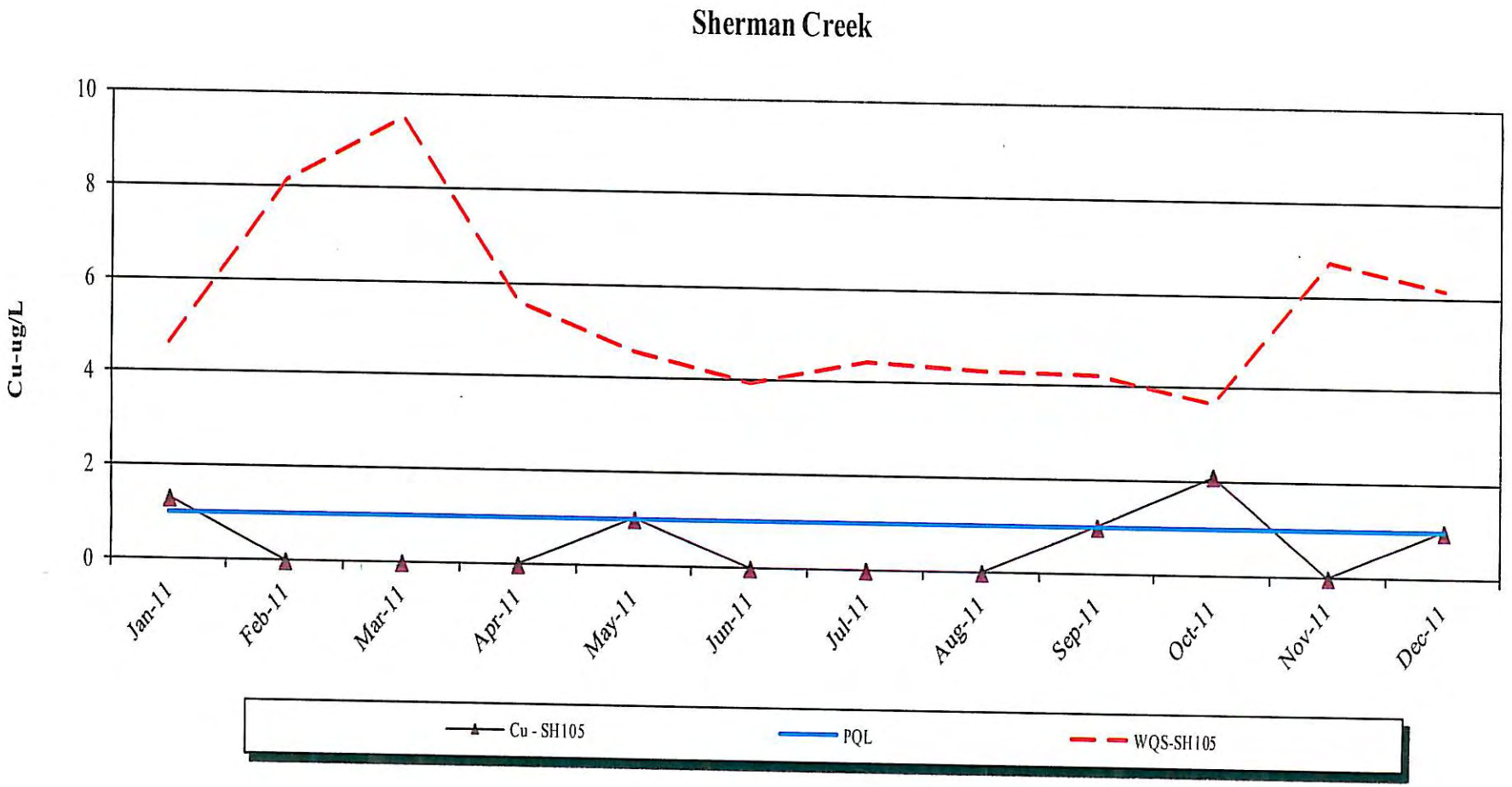

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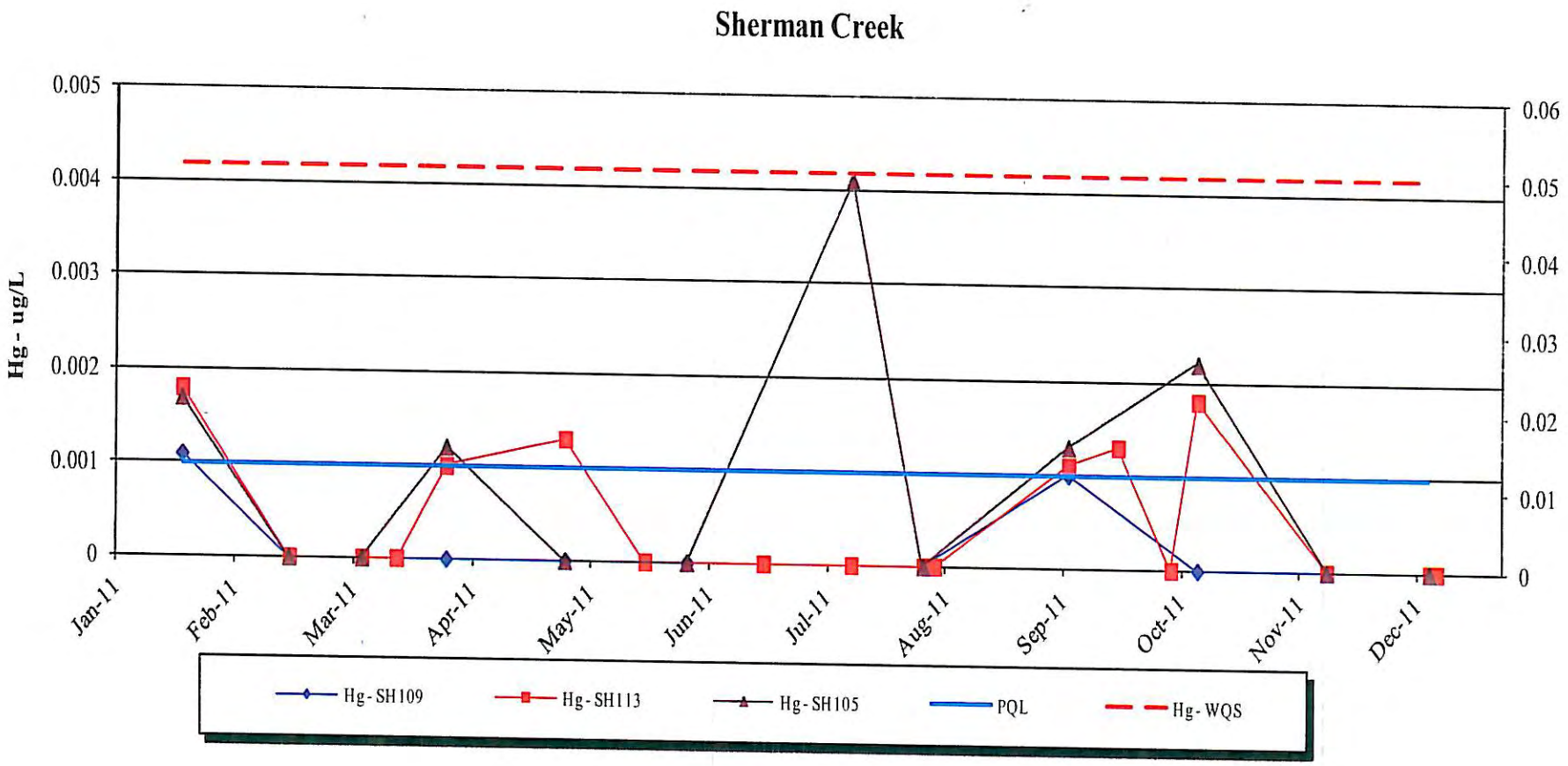

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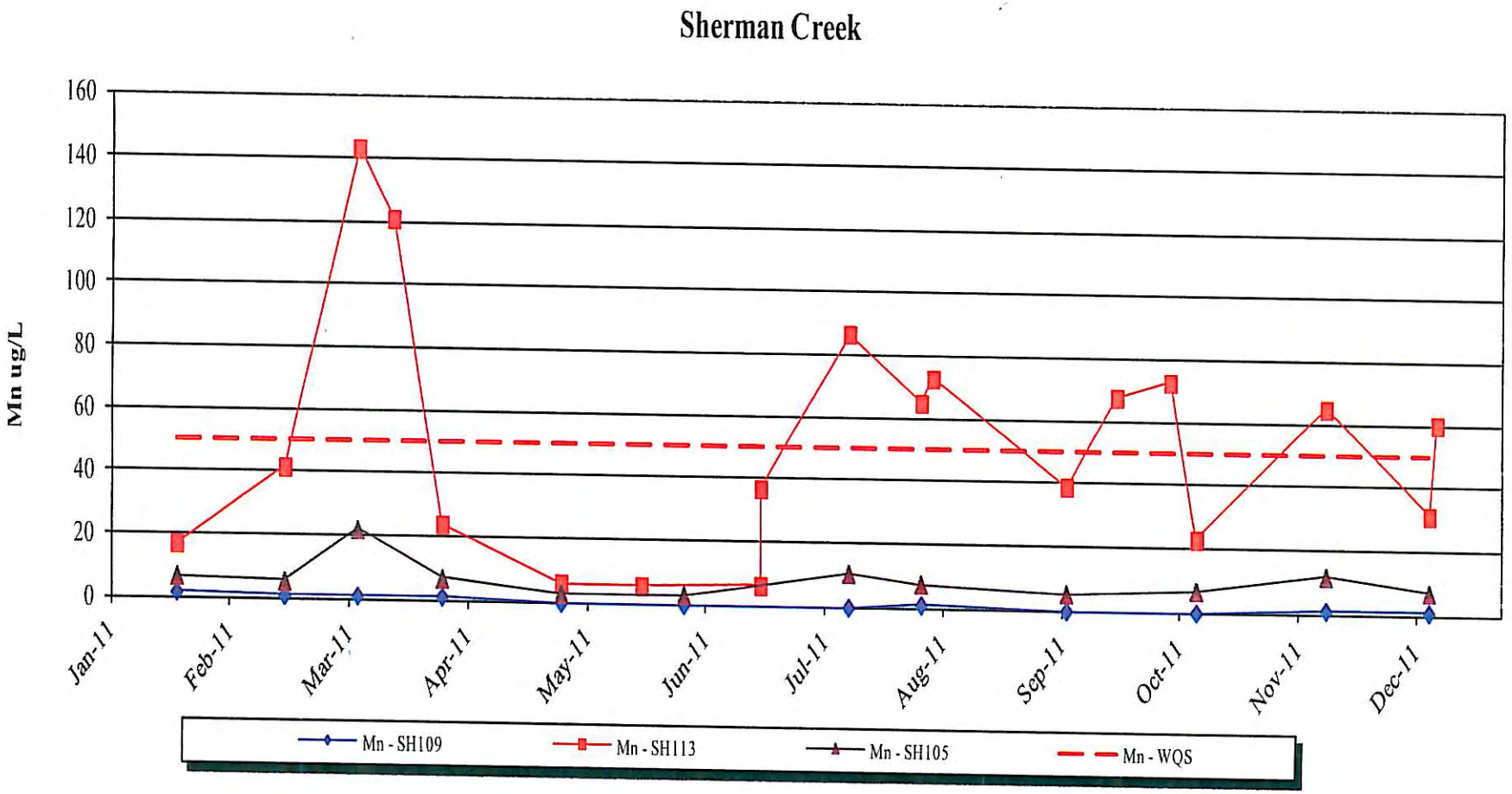

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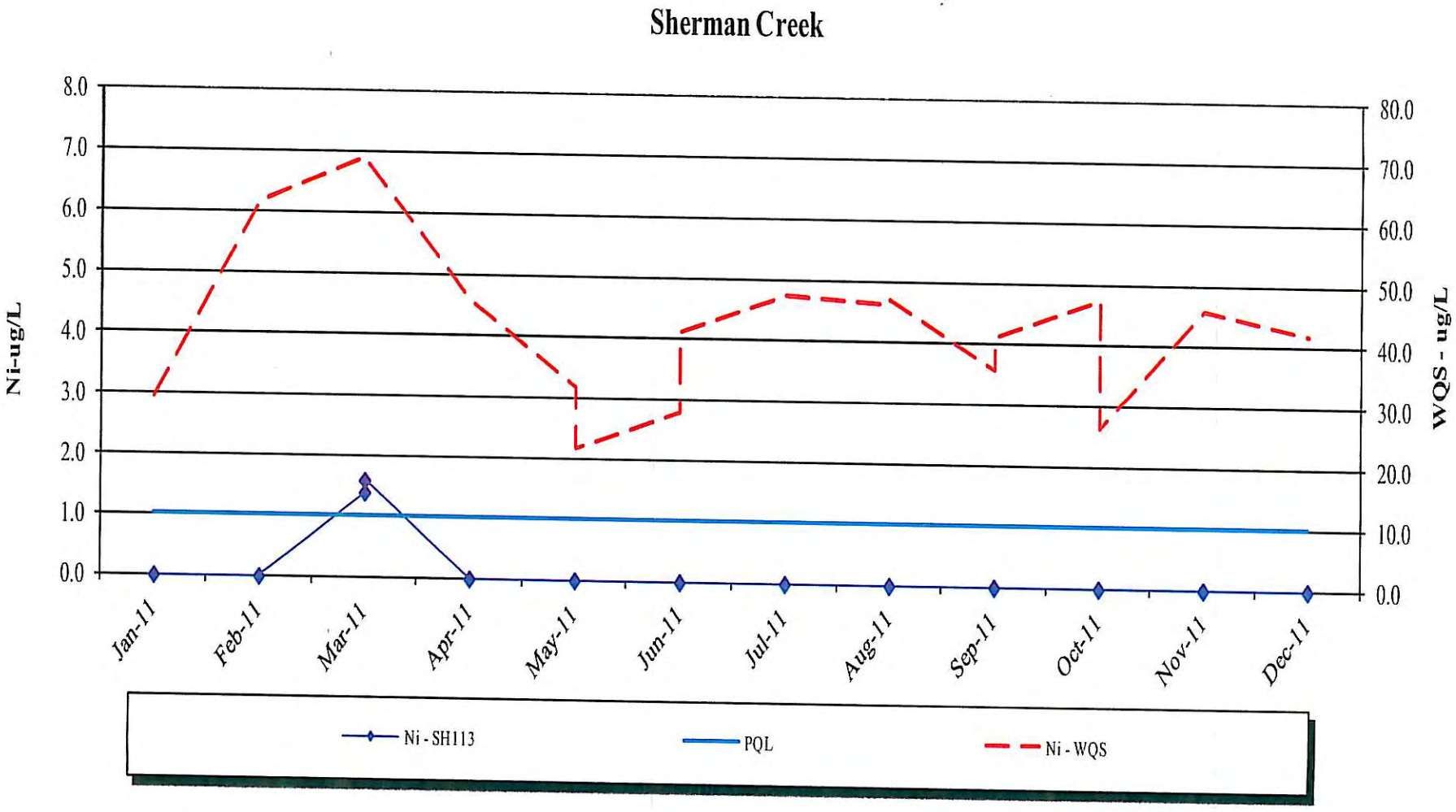

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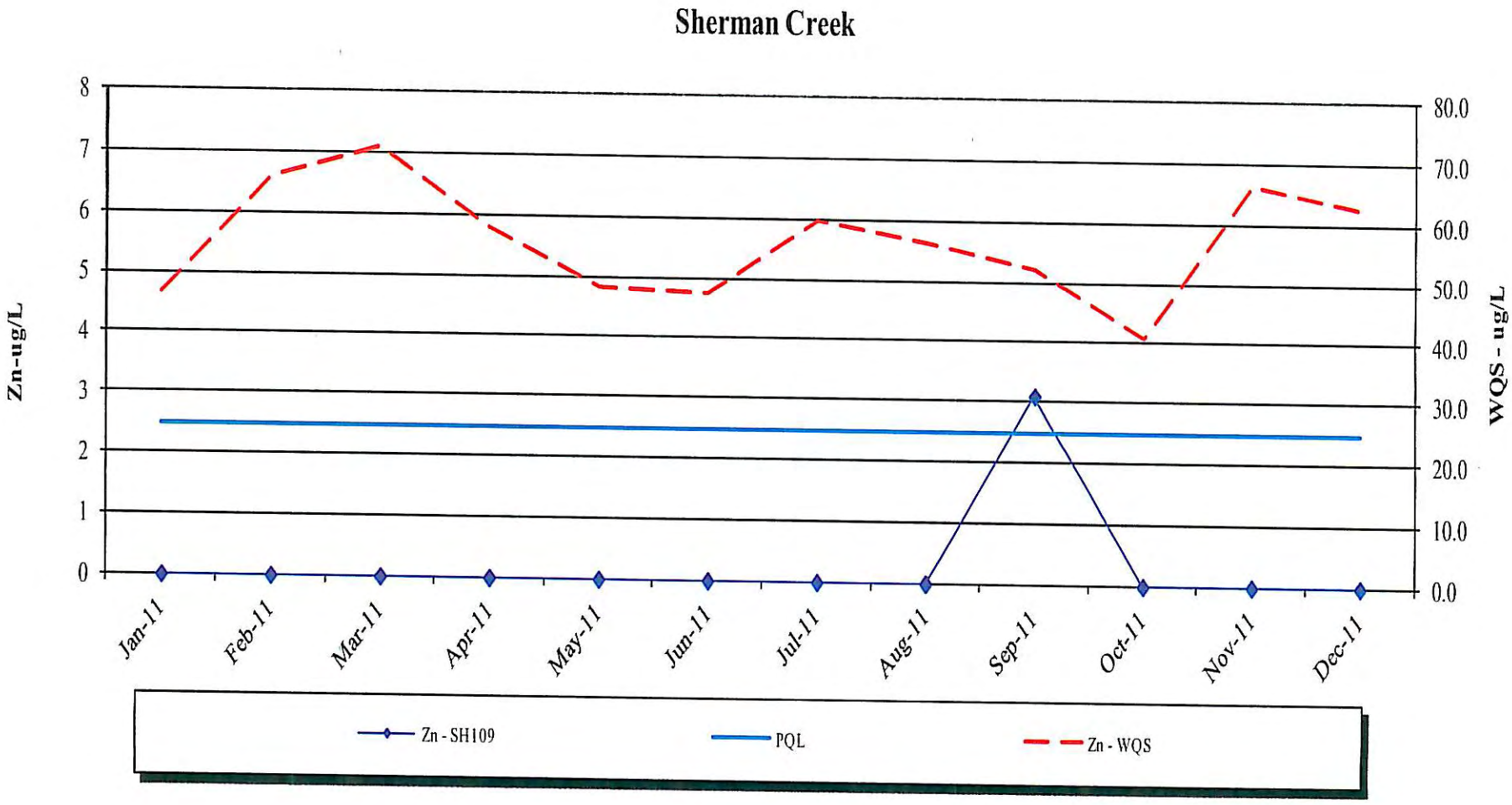

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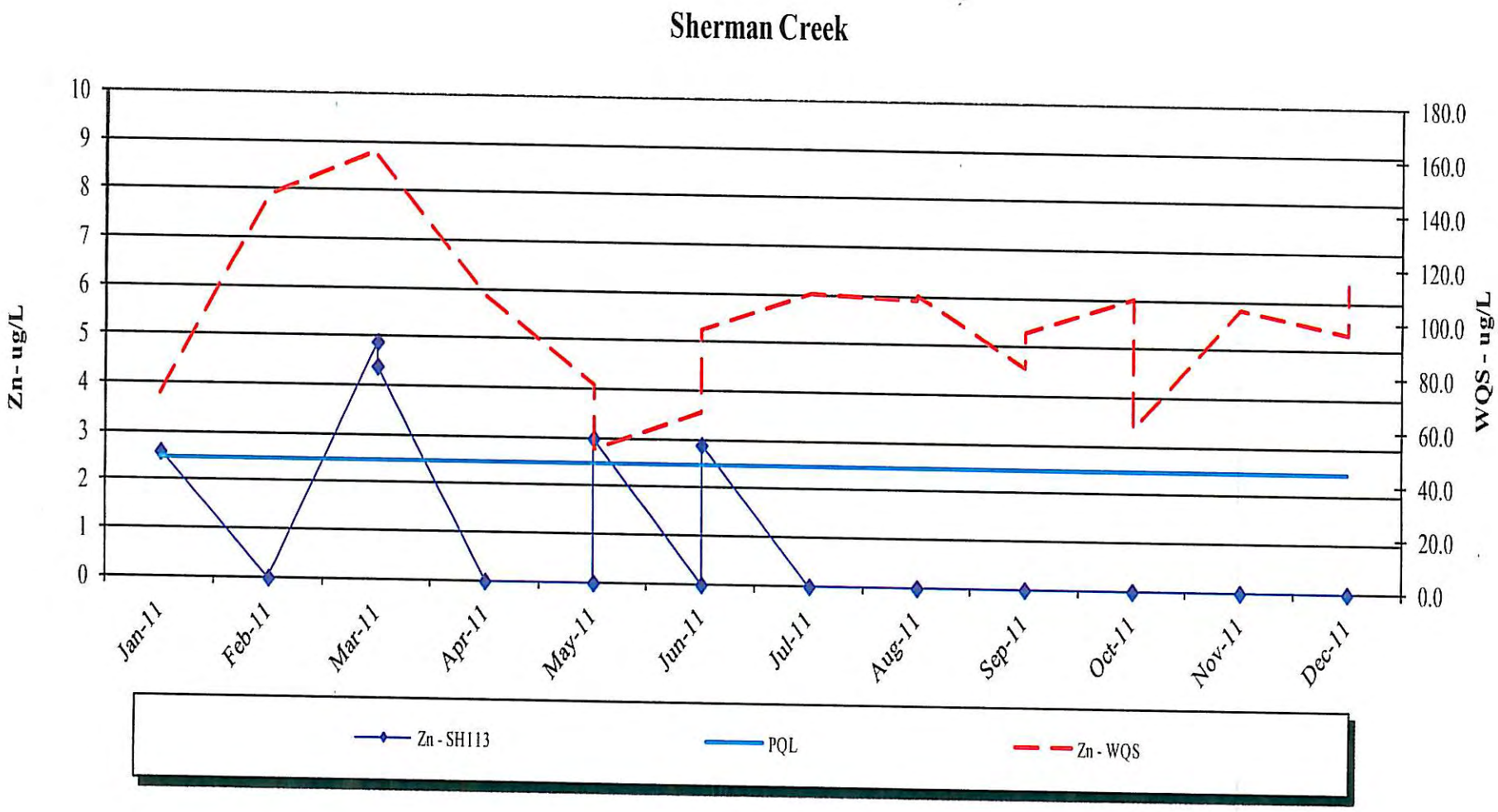

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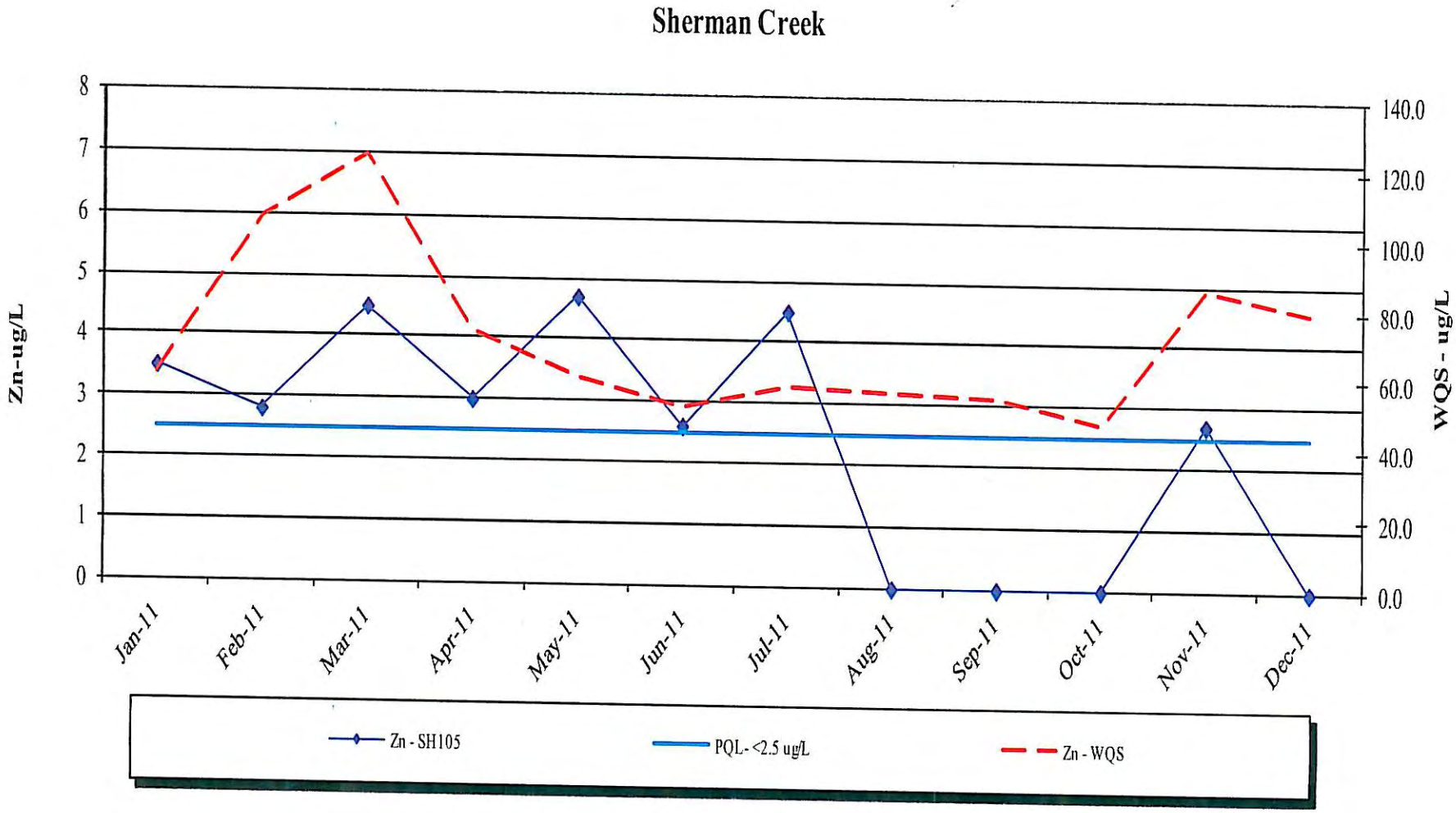

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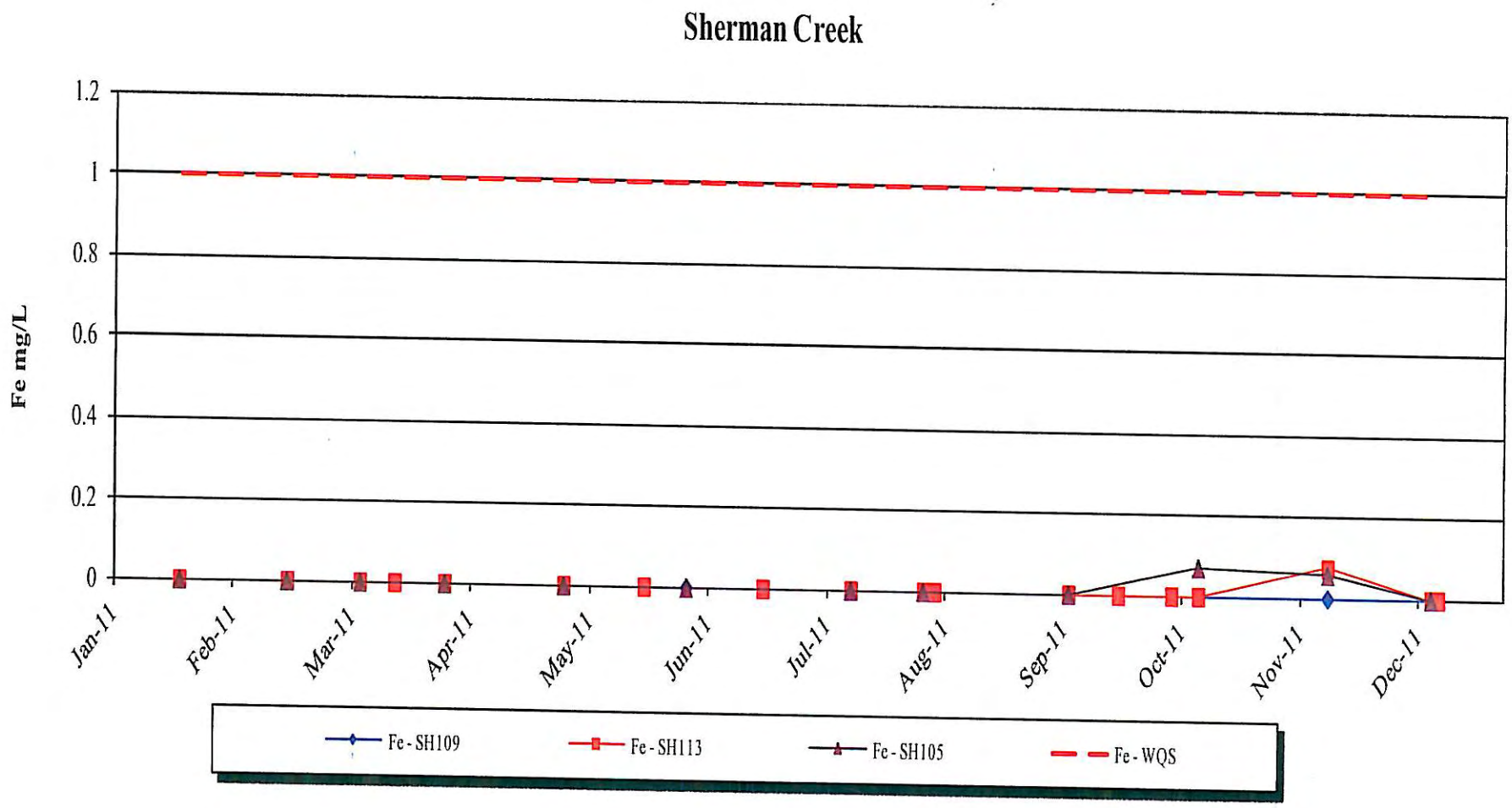
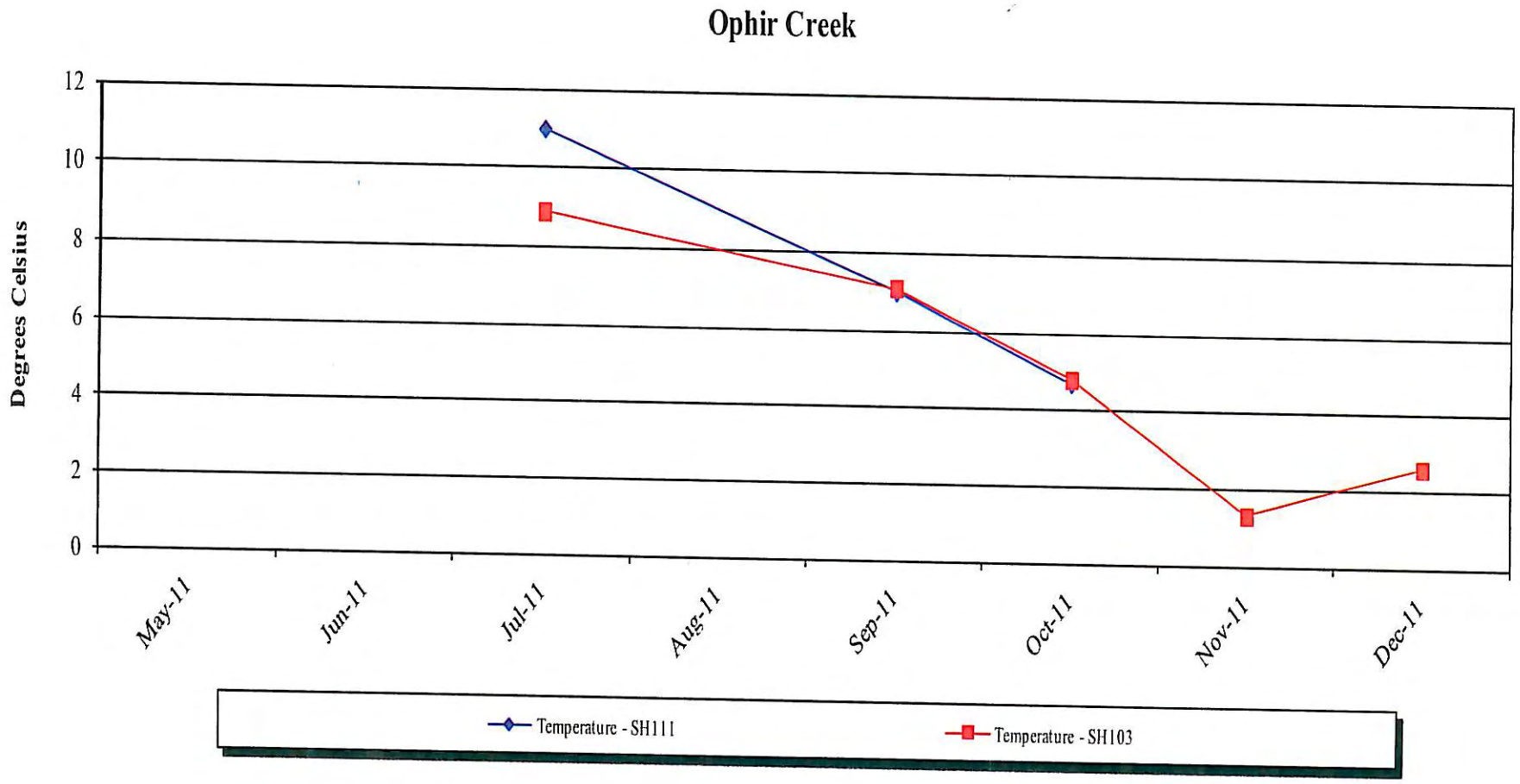


Figure 9a: Ophir Creek Monitoring Results 2011, Field Parameters



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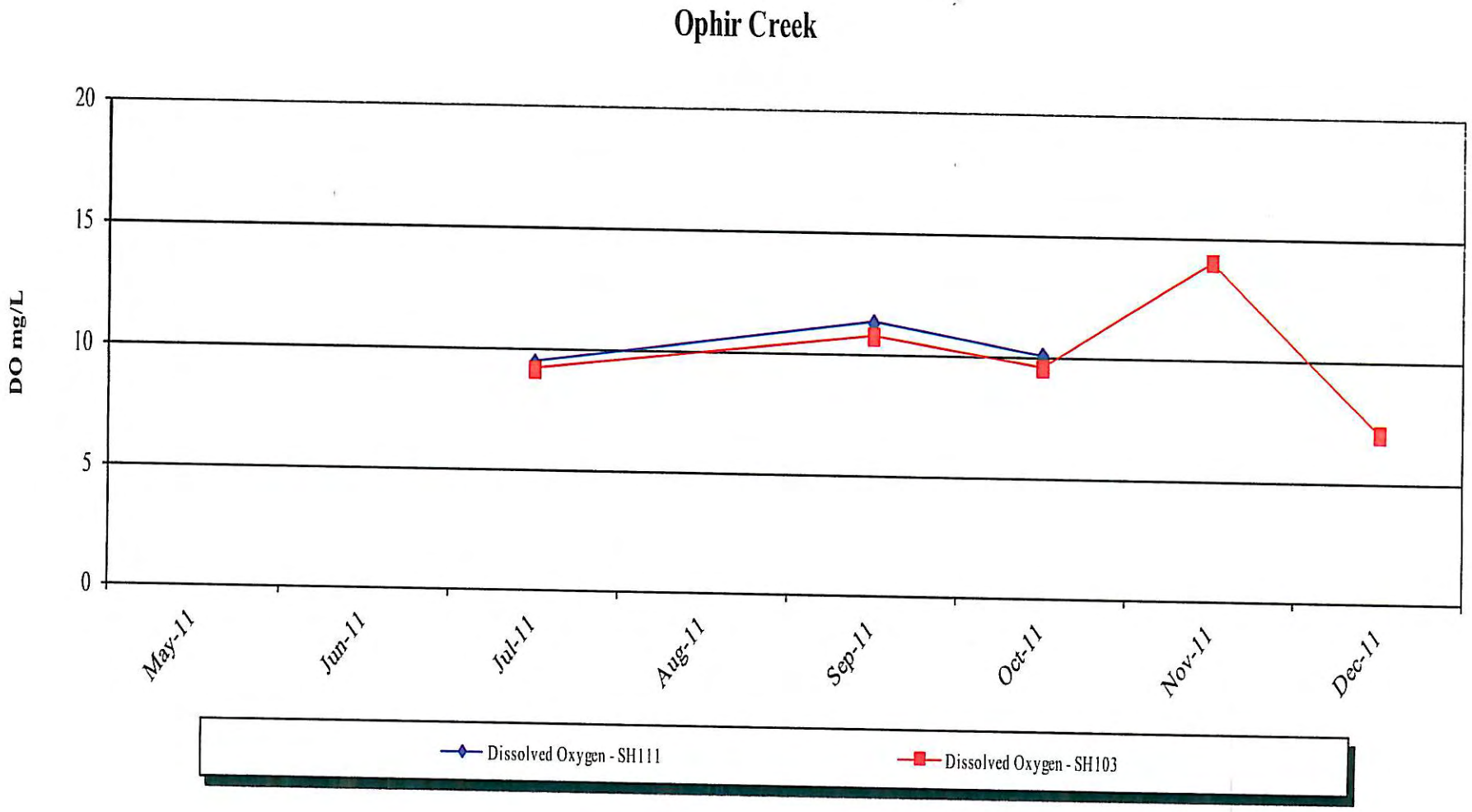

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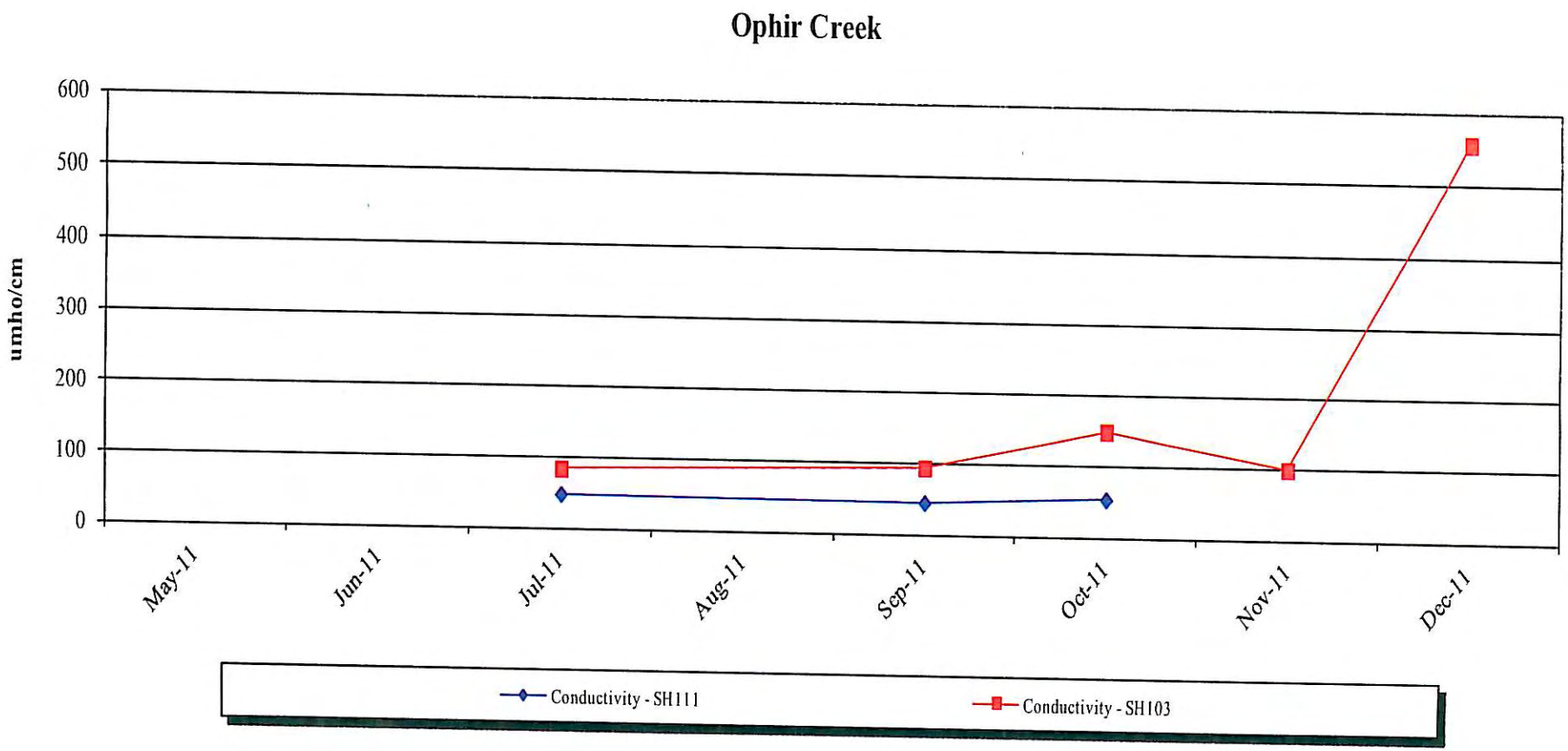

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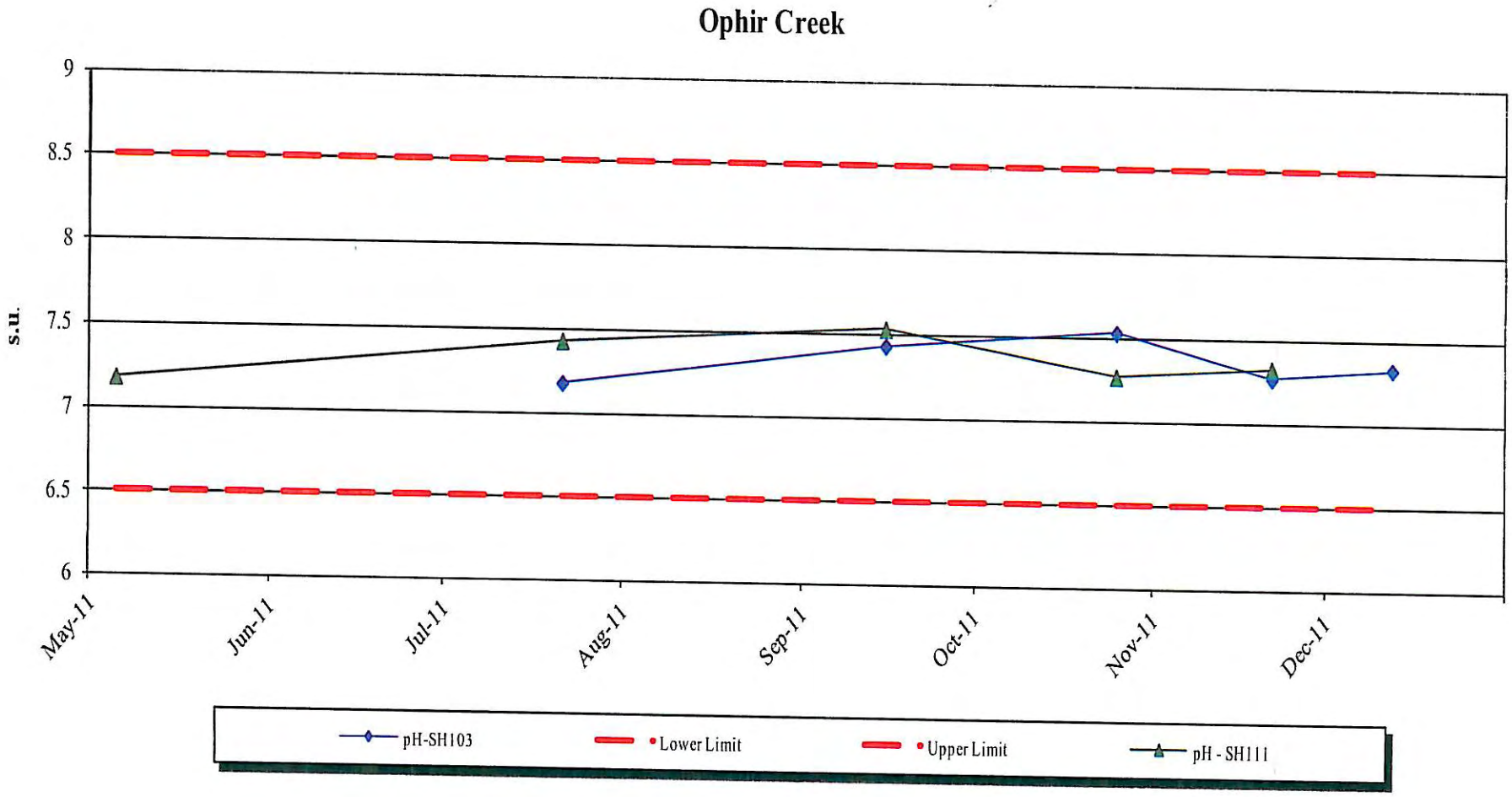


Figure 9b: Ophir Creek Monitoring Results 2011, Major Chemistry

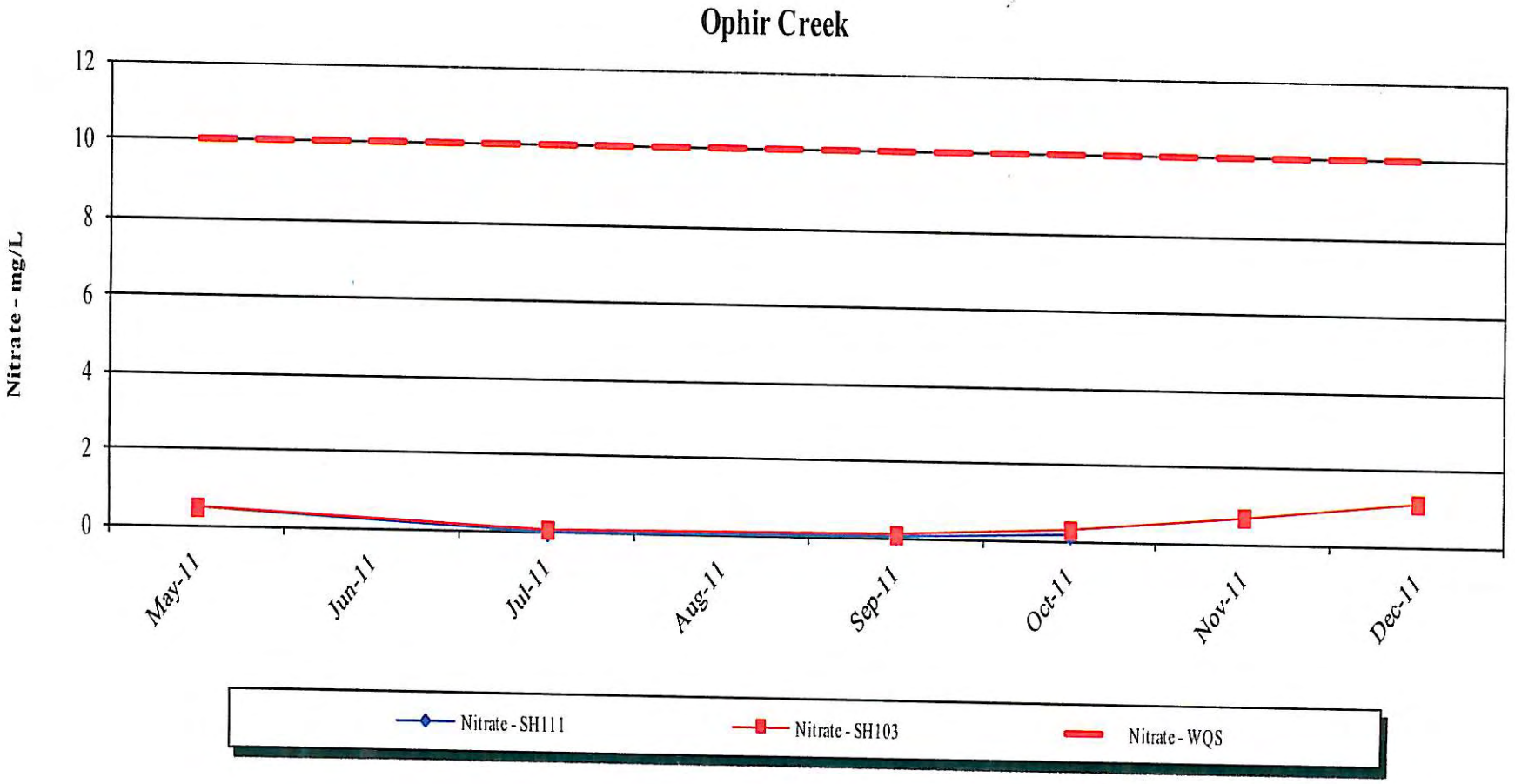
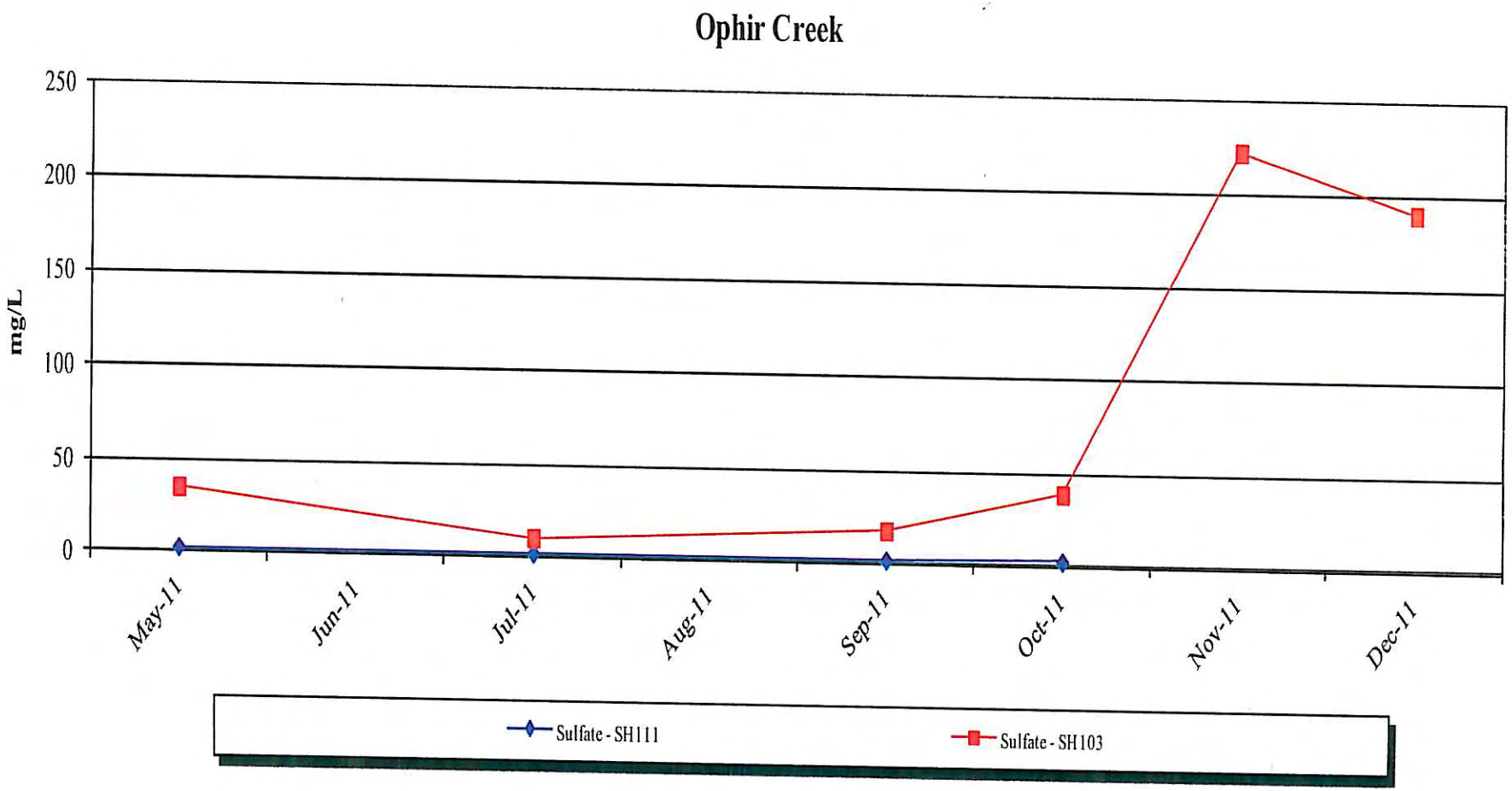


Figure 9b: Ophir Creek Monitoring Results 2011, Major Chemistry



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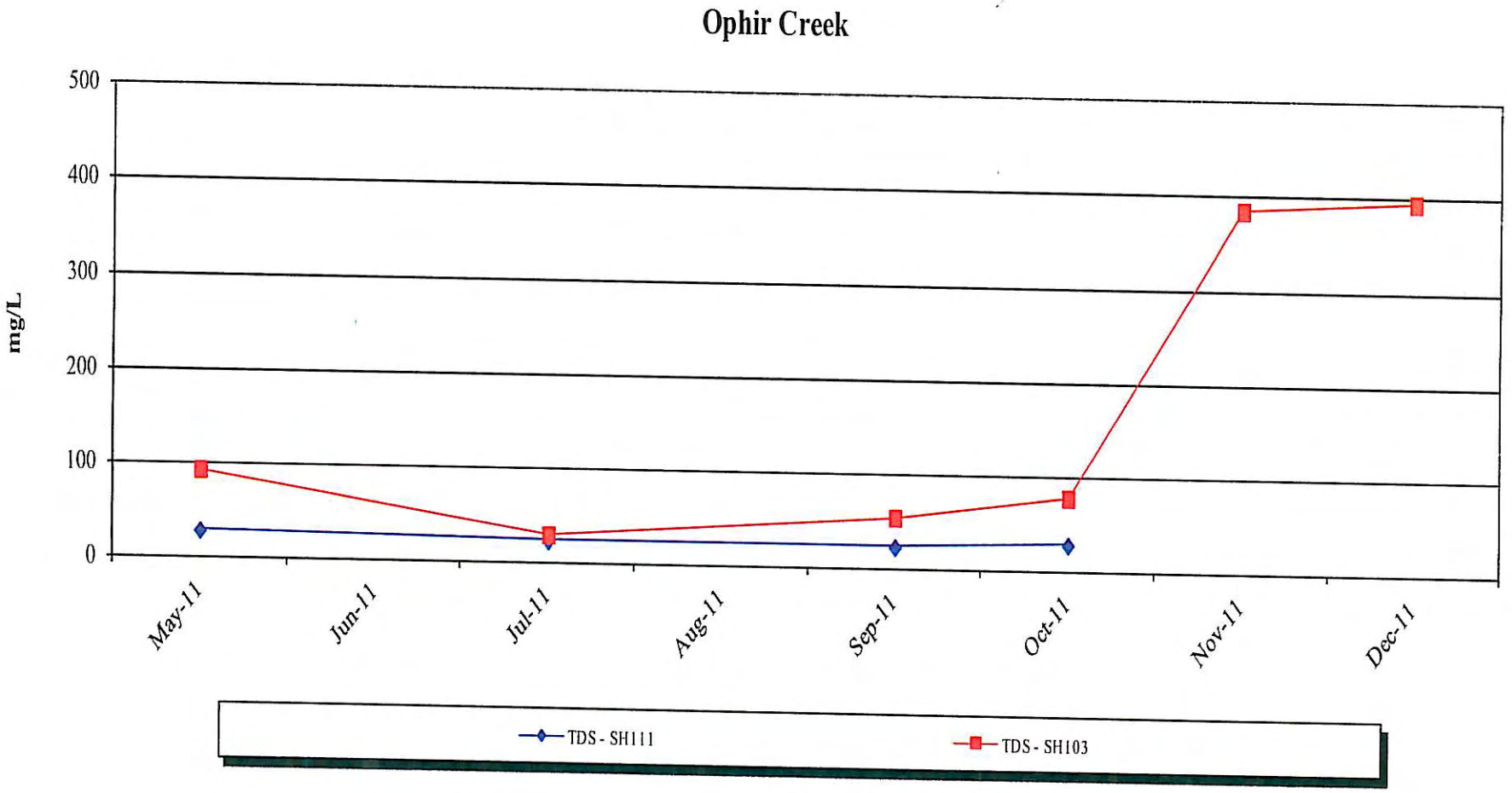

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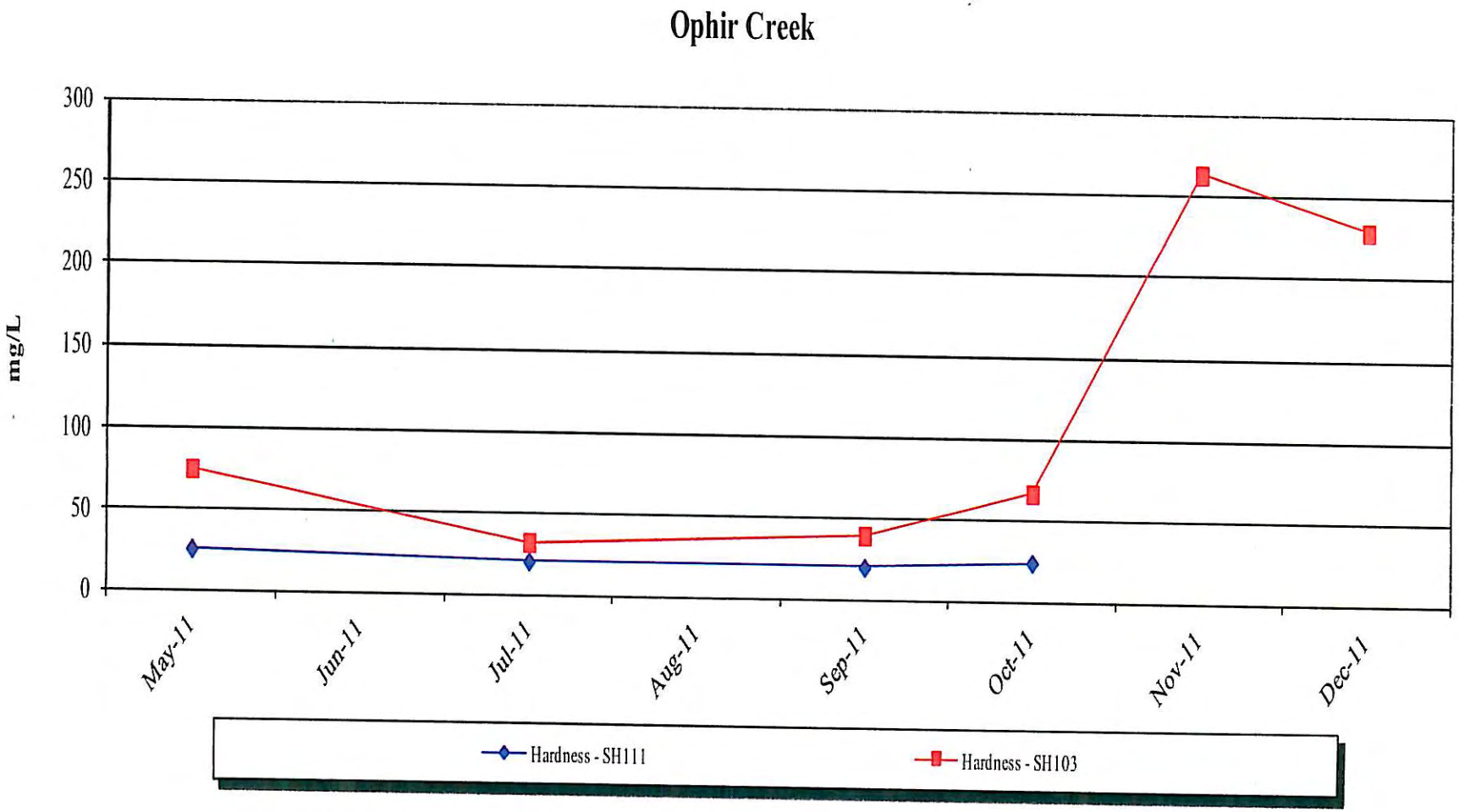

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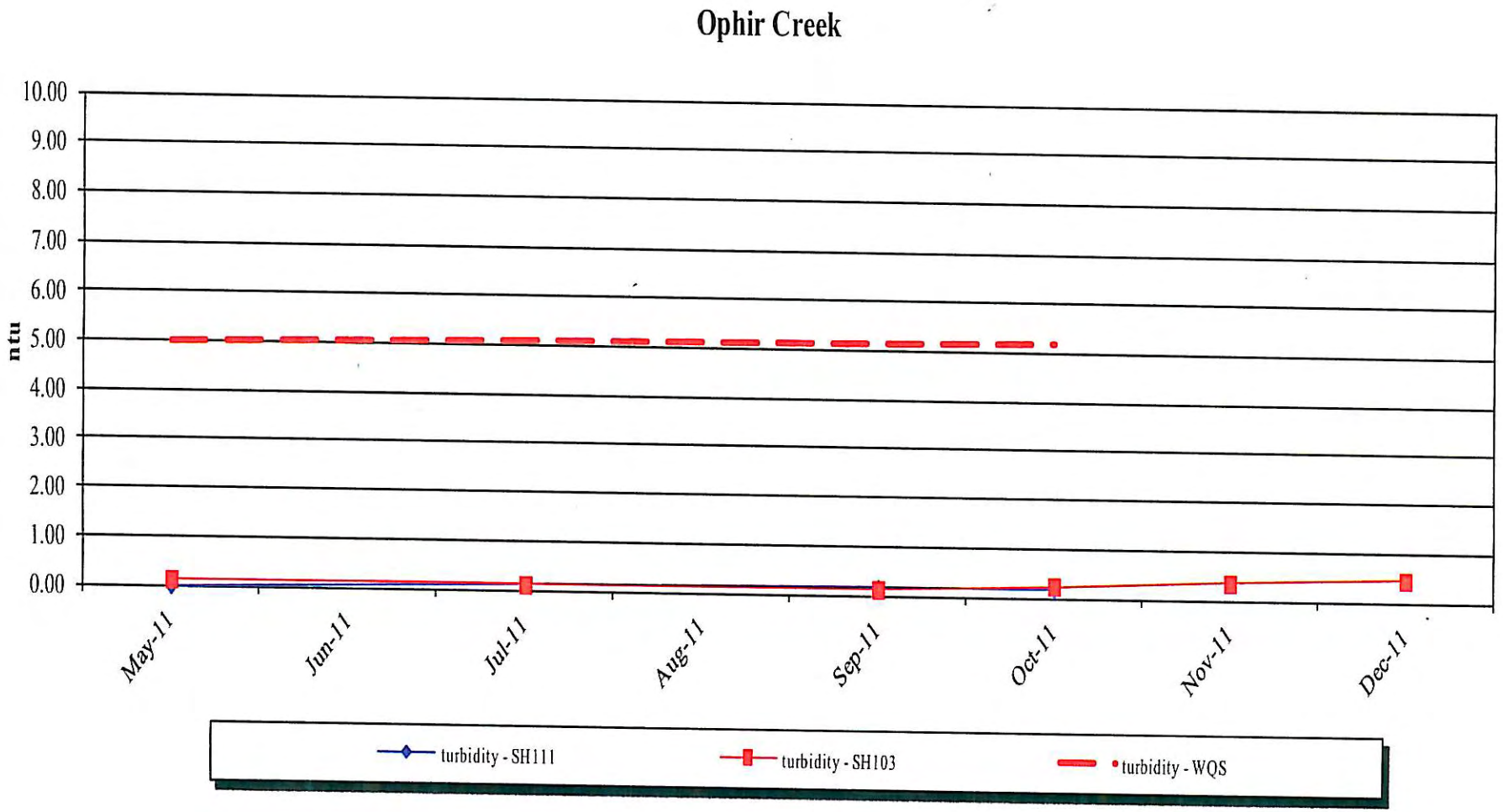

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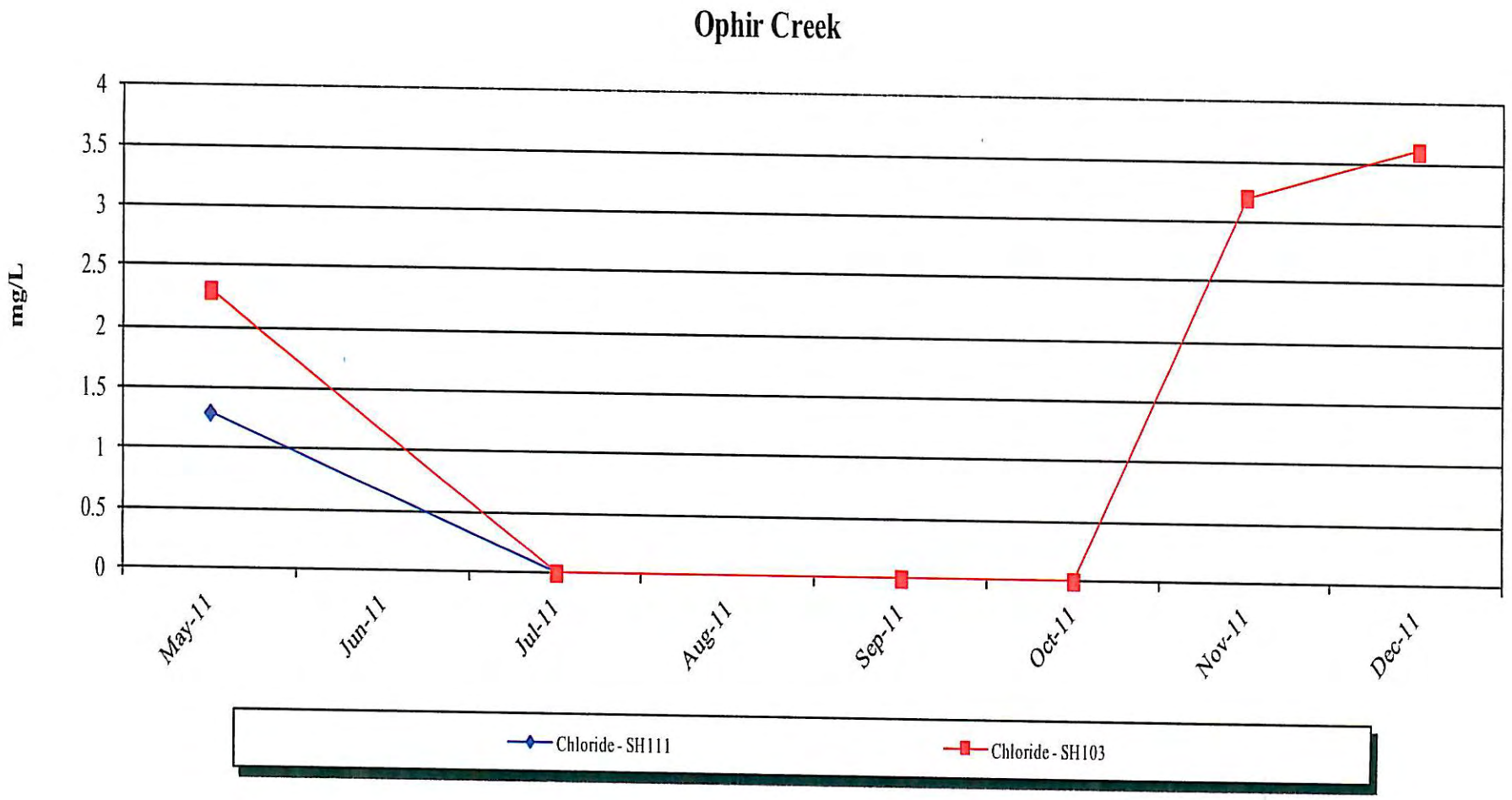

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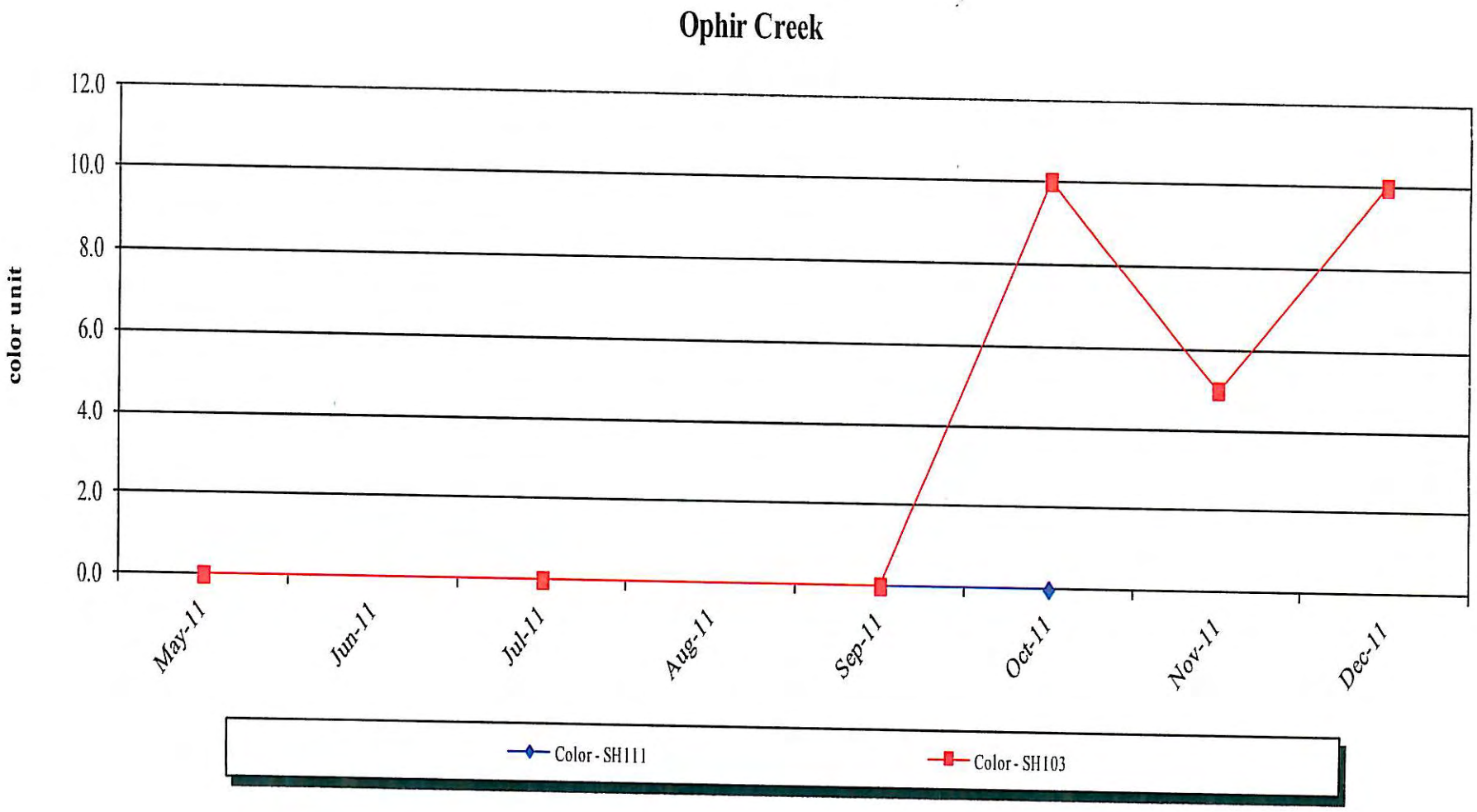


Figure 9c: Ophir Creek Monitoring Results 2011, Trace Chemistry

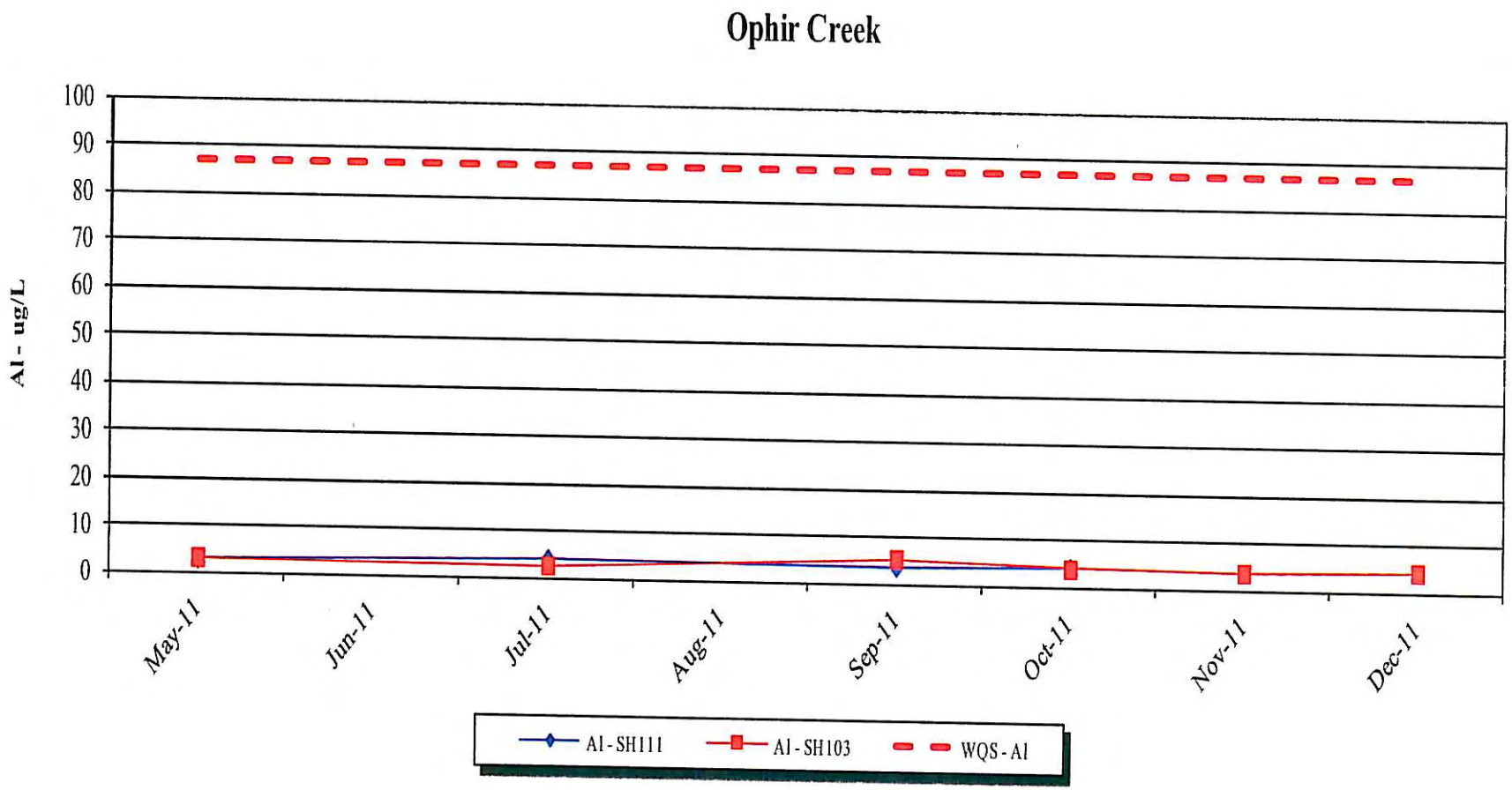
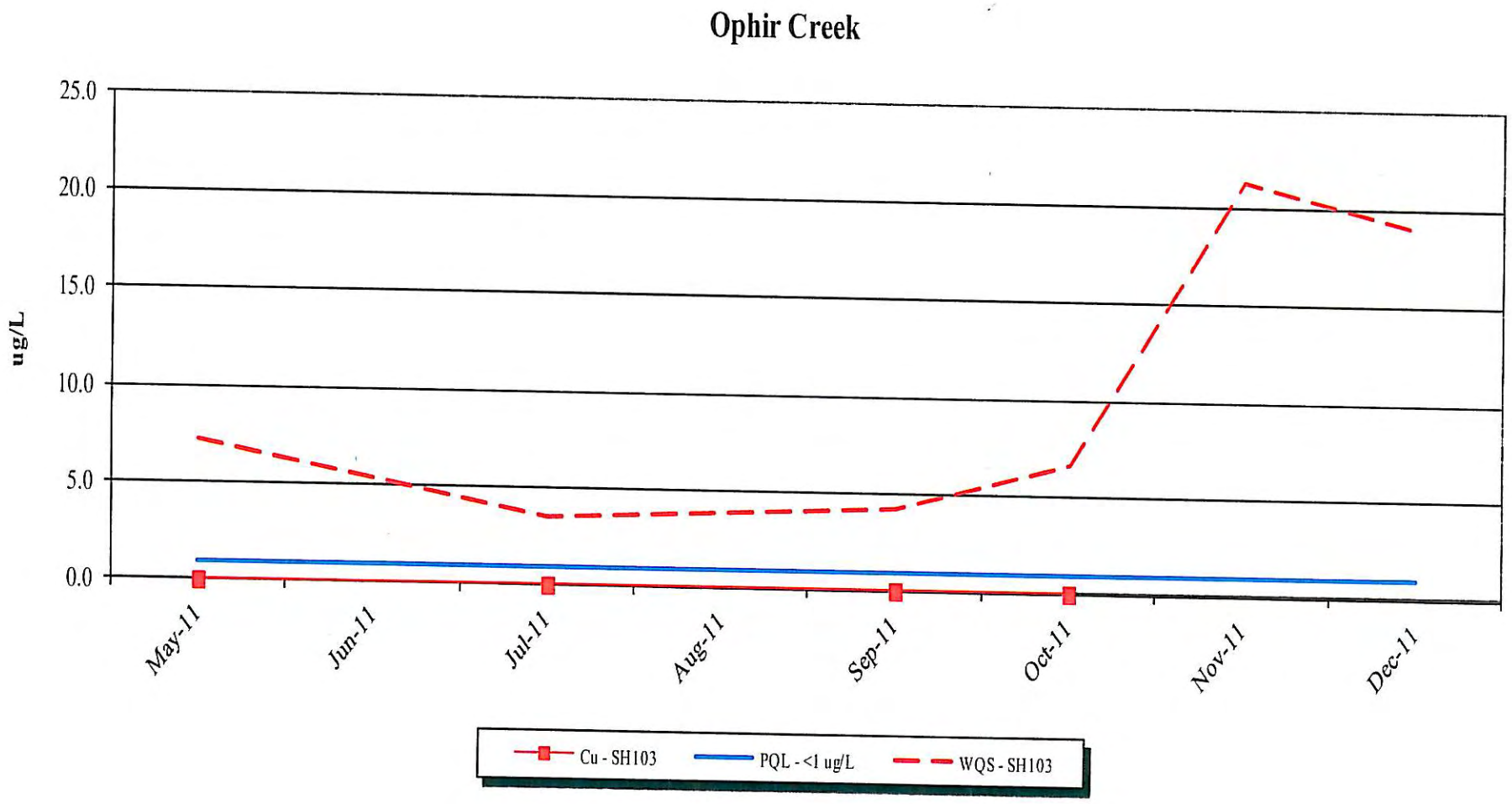


Figure 9c: Ophir Creek Monitoring Results 2011, Trace Chemistry



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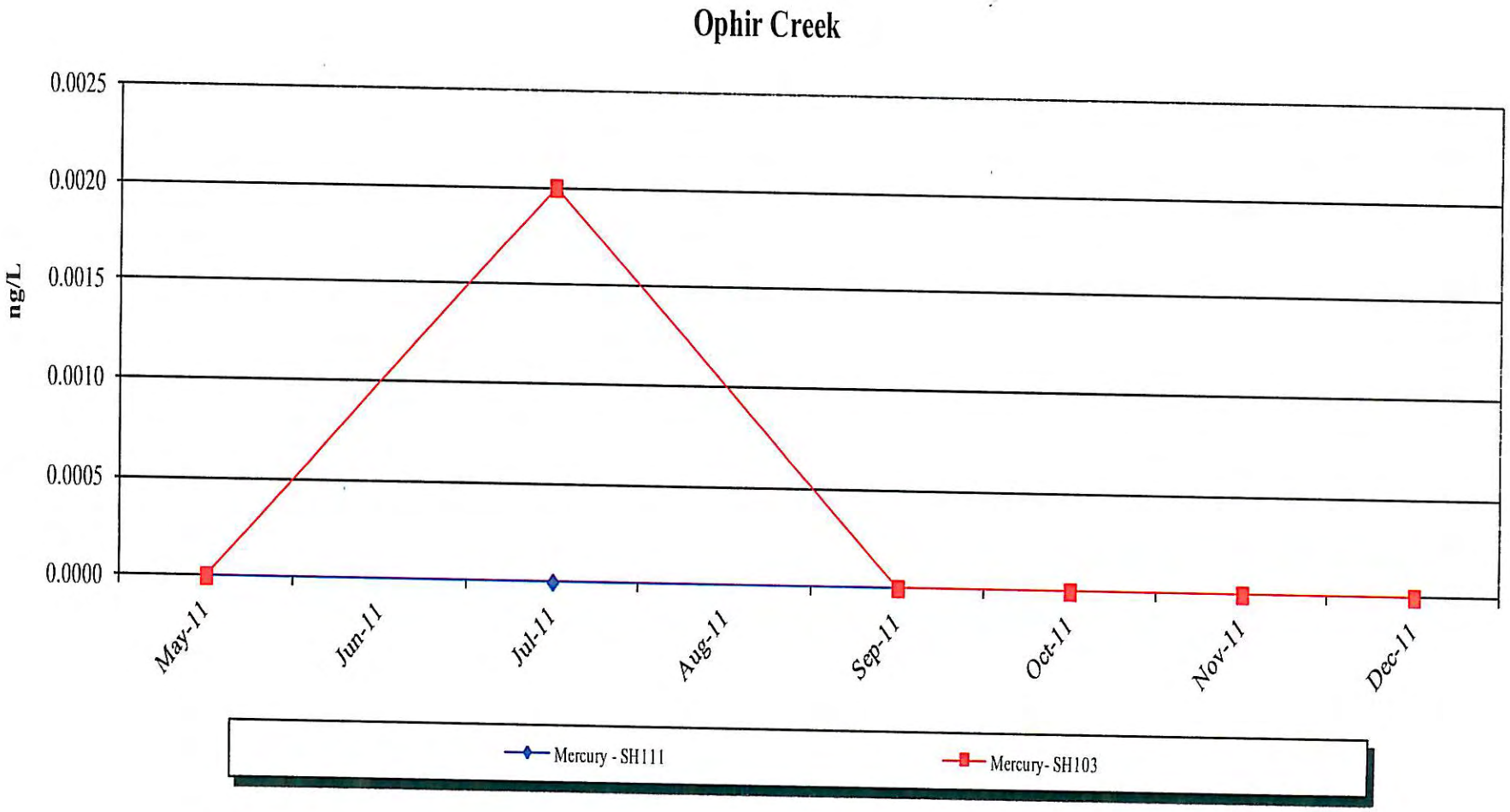

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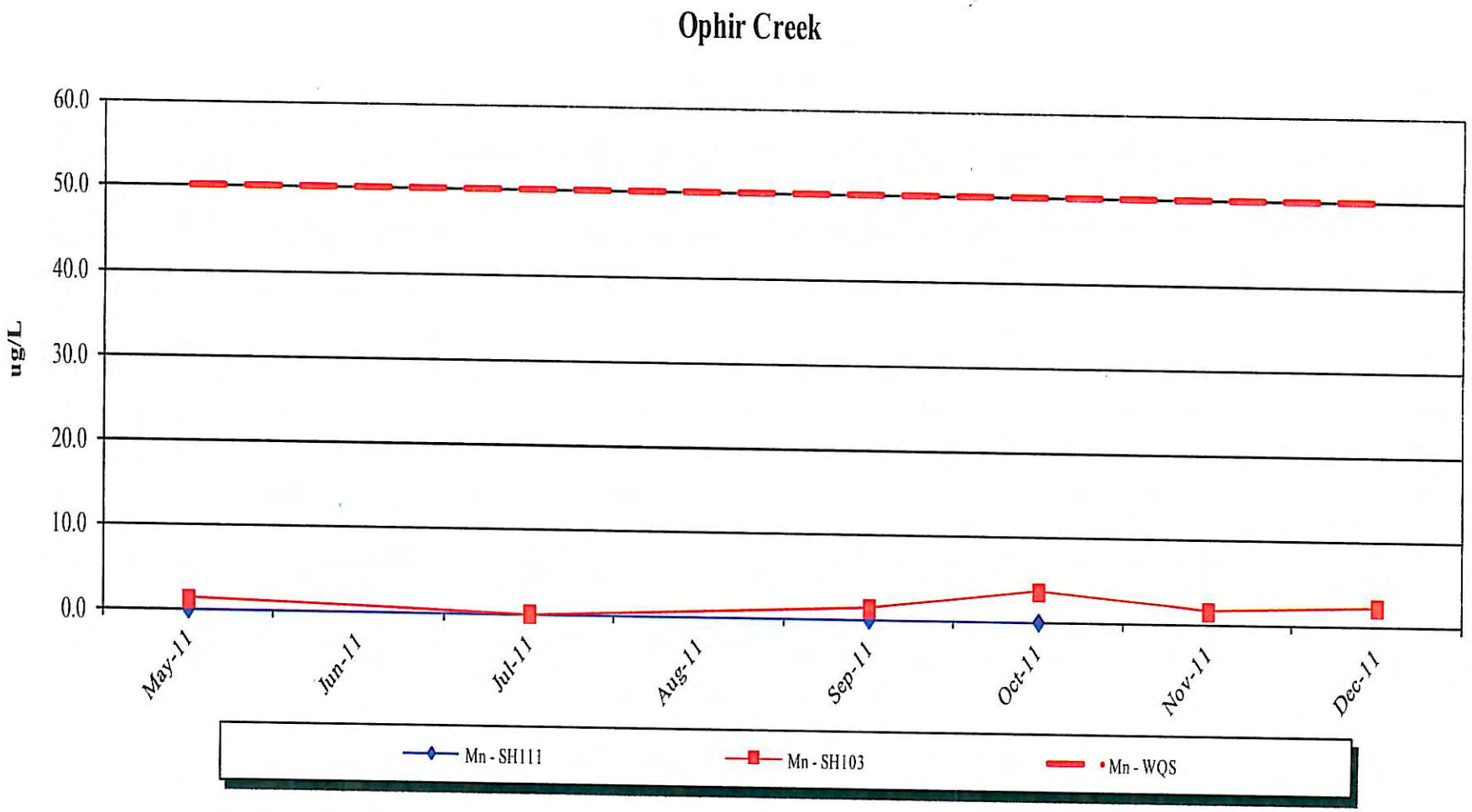

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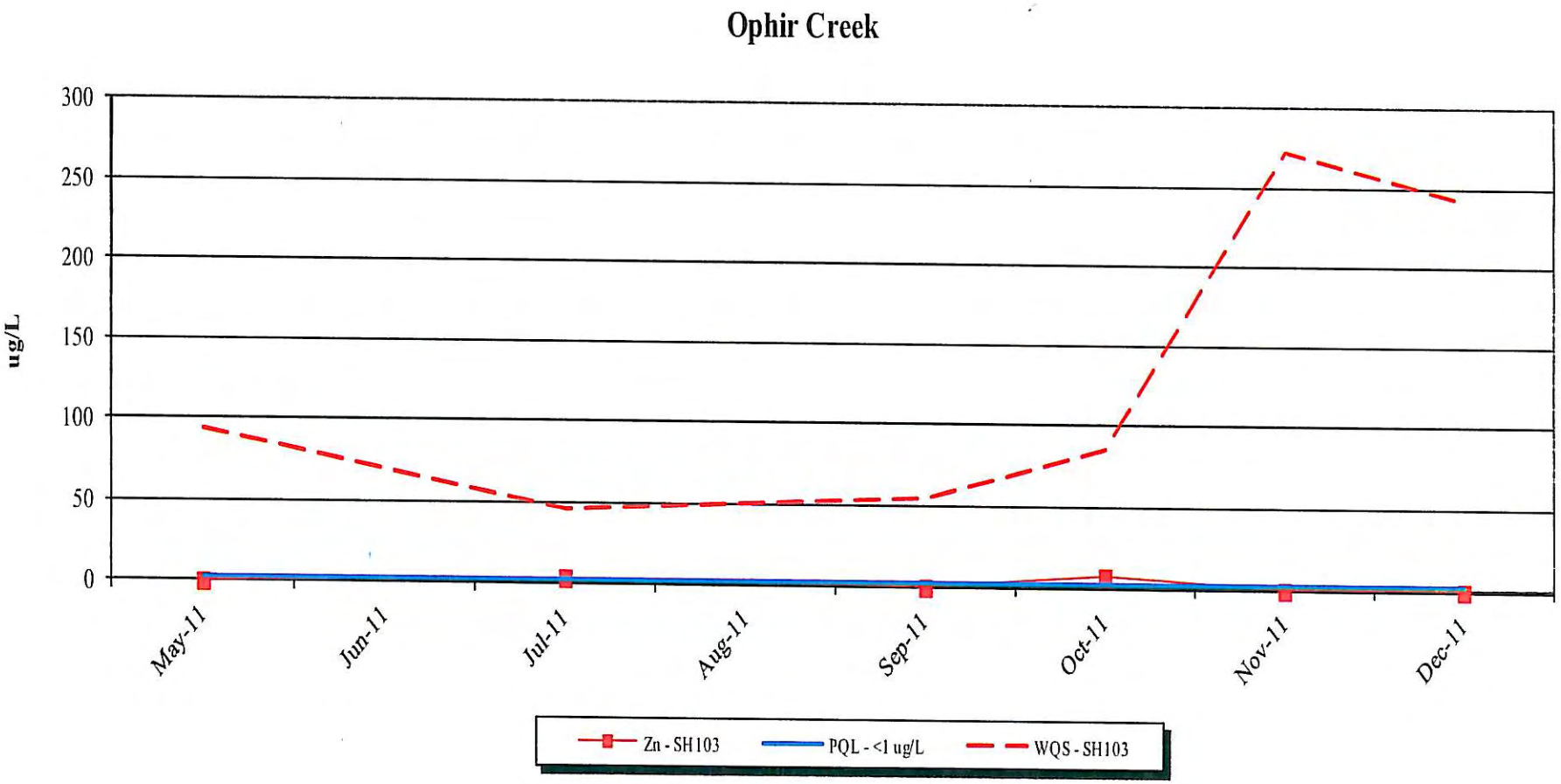

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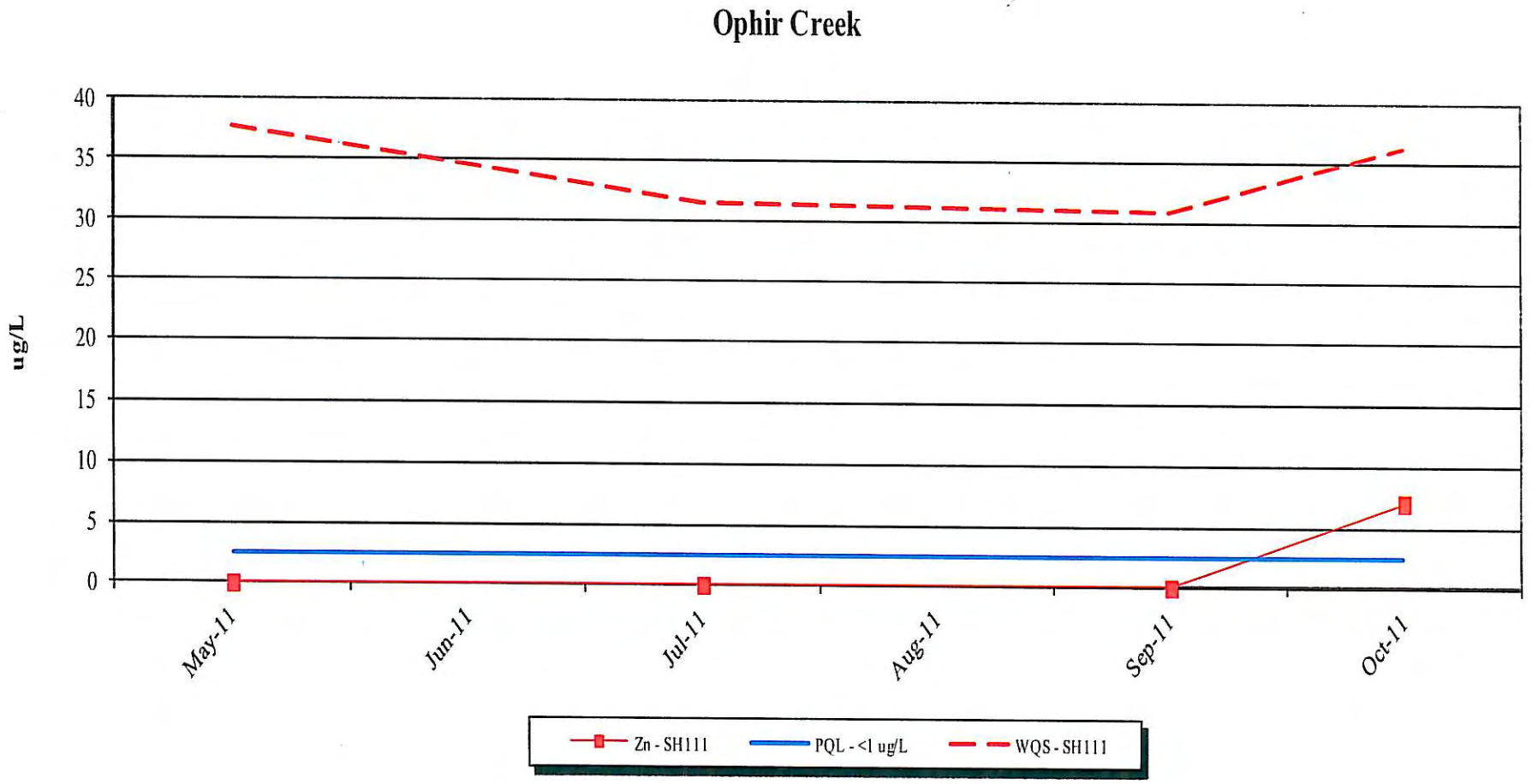
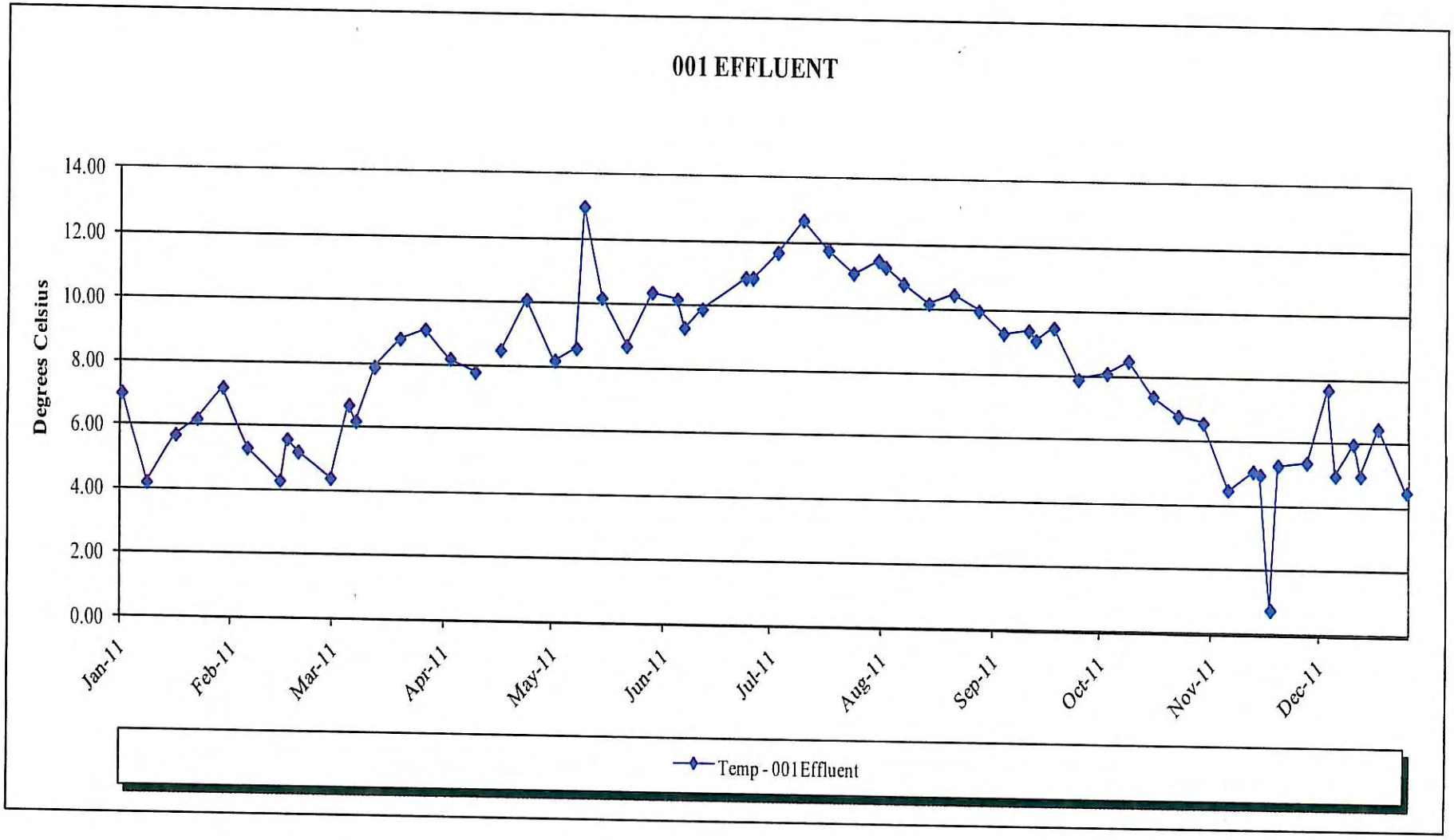


Figure 10a: Outfall 001 Effluent Monitoring Results 2011, Field Parameters



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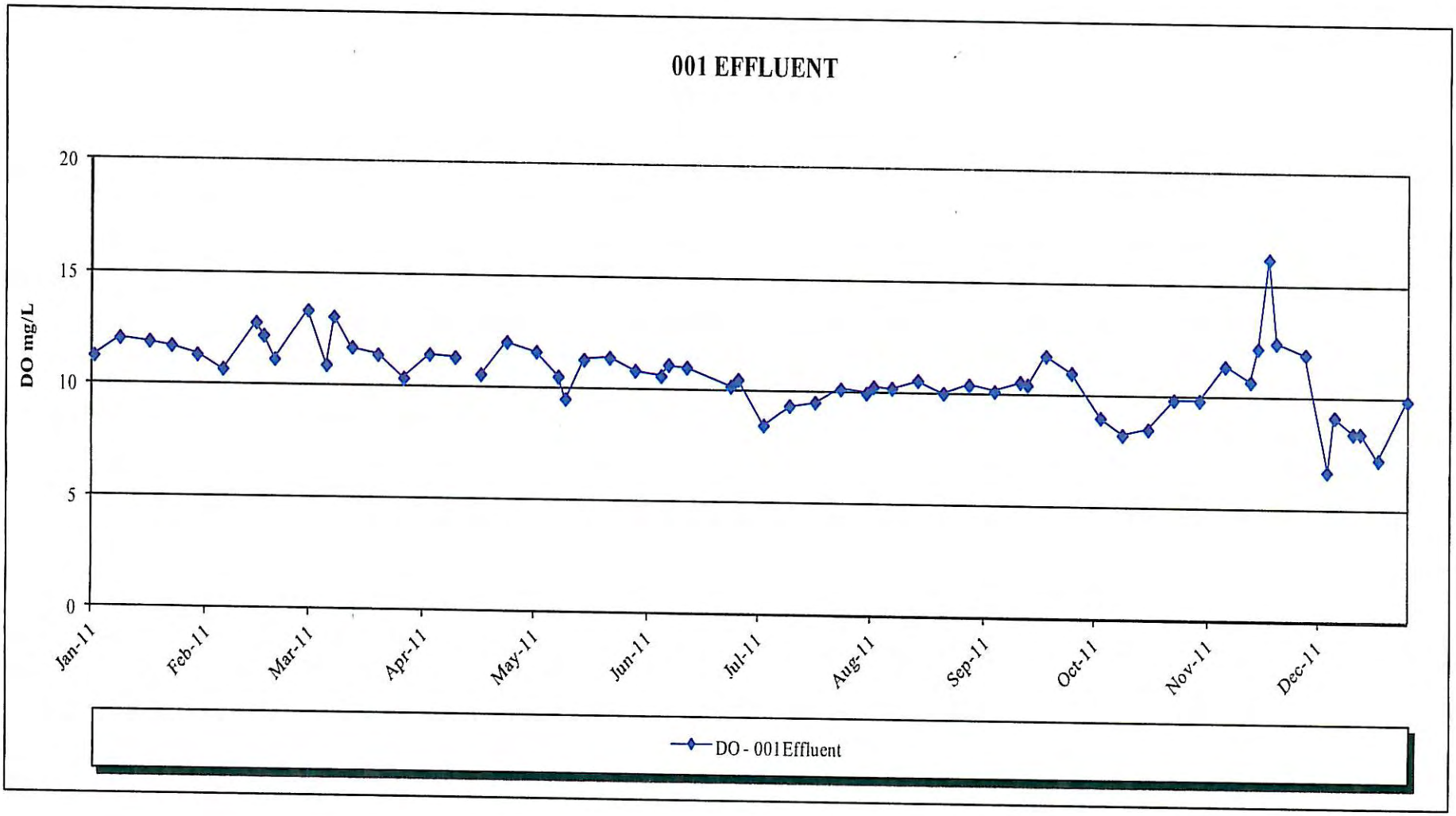


Figure 10b: Outfall 001 Effluent Monitoring Results 2011, Major Chemistry

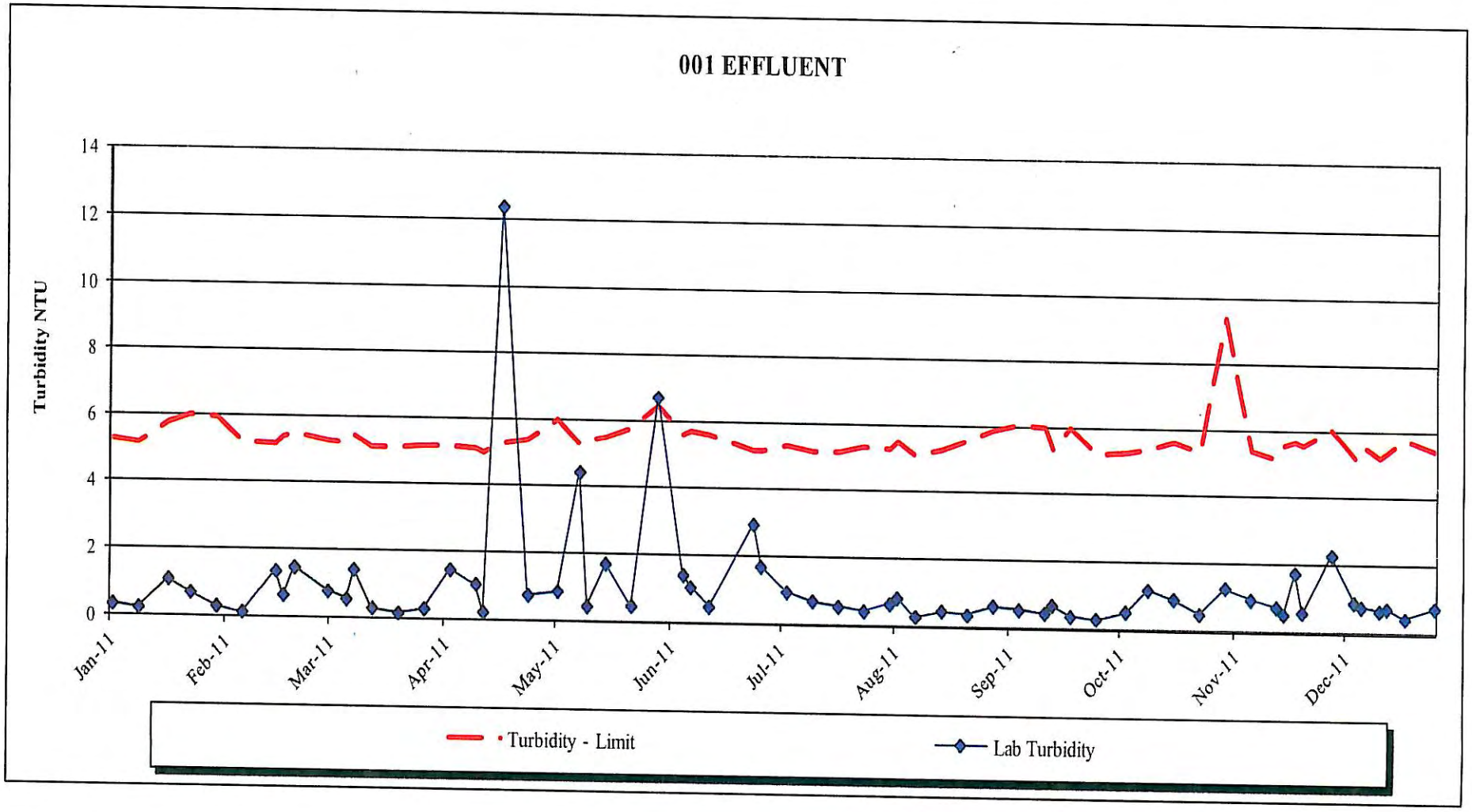


Figure 10b: Outfall 001 Effluent Monitoring Results 2011, Major Chemistry

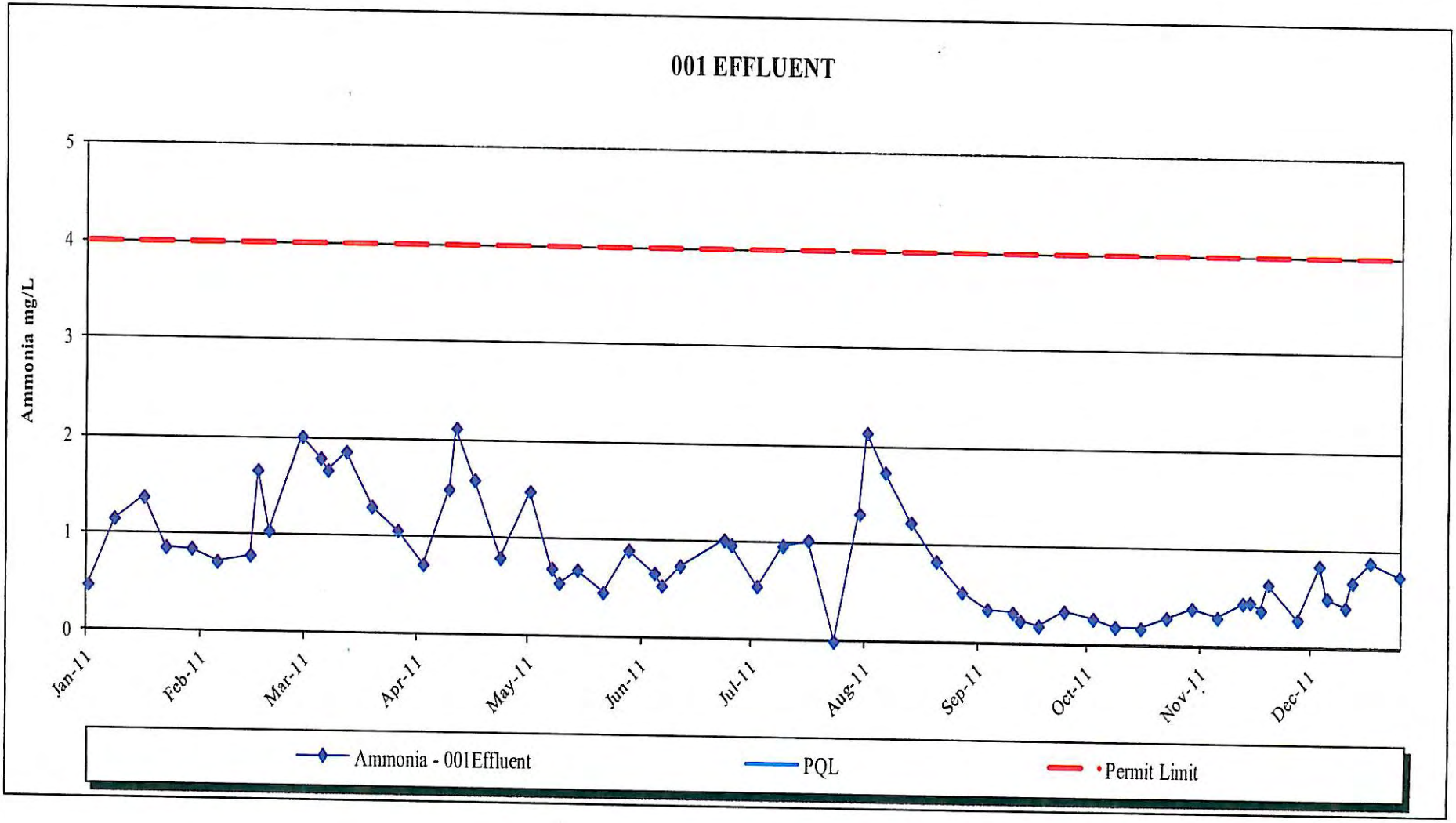
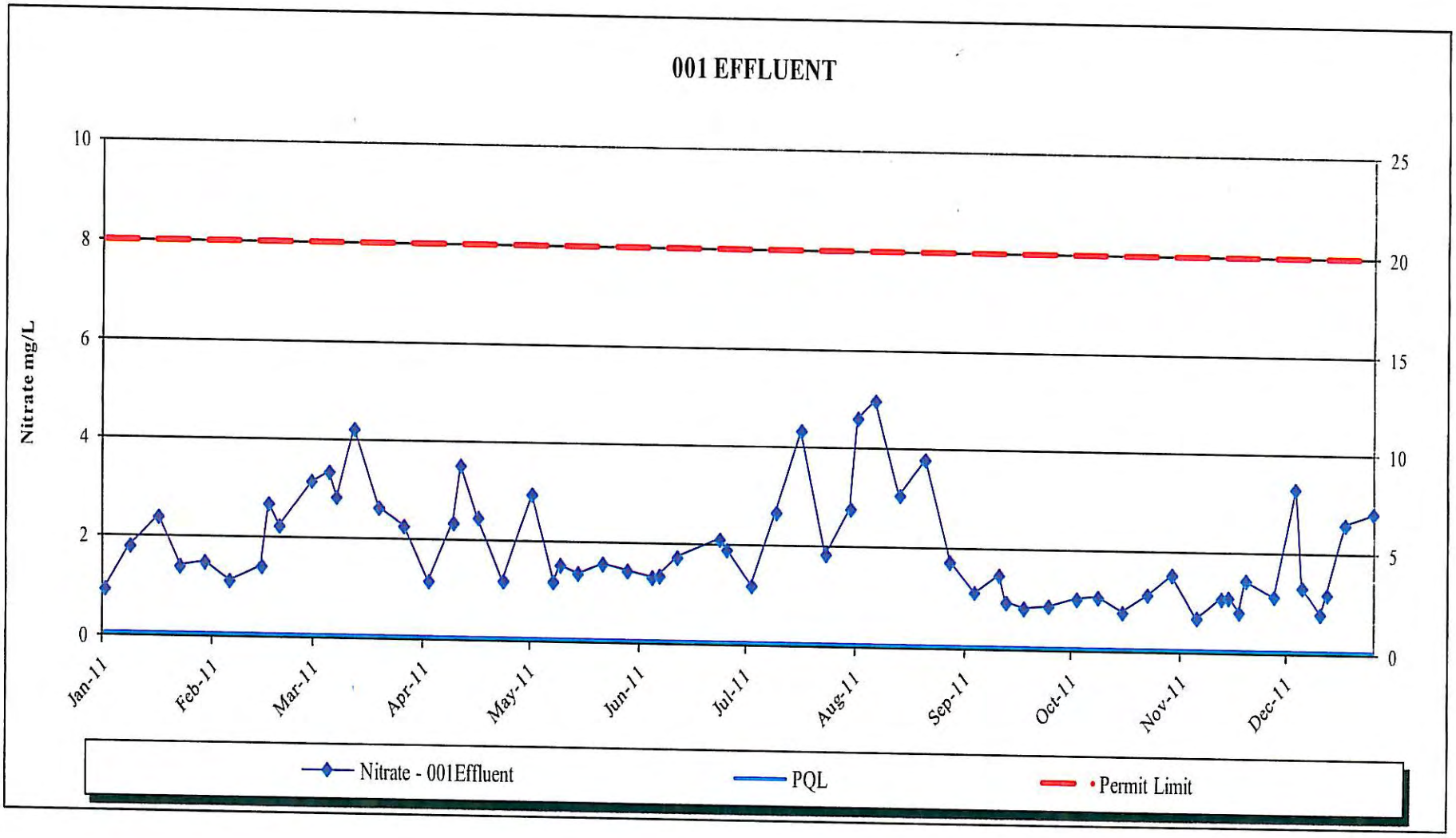


Figure 10b: Outfall 001 Effluent Monitoring Results 2011, Major Chemistry



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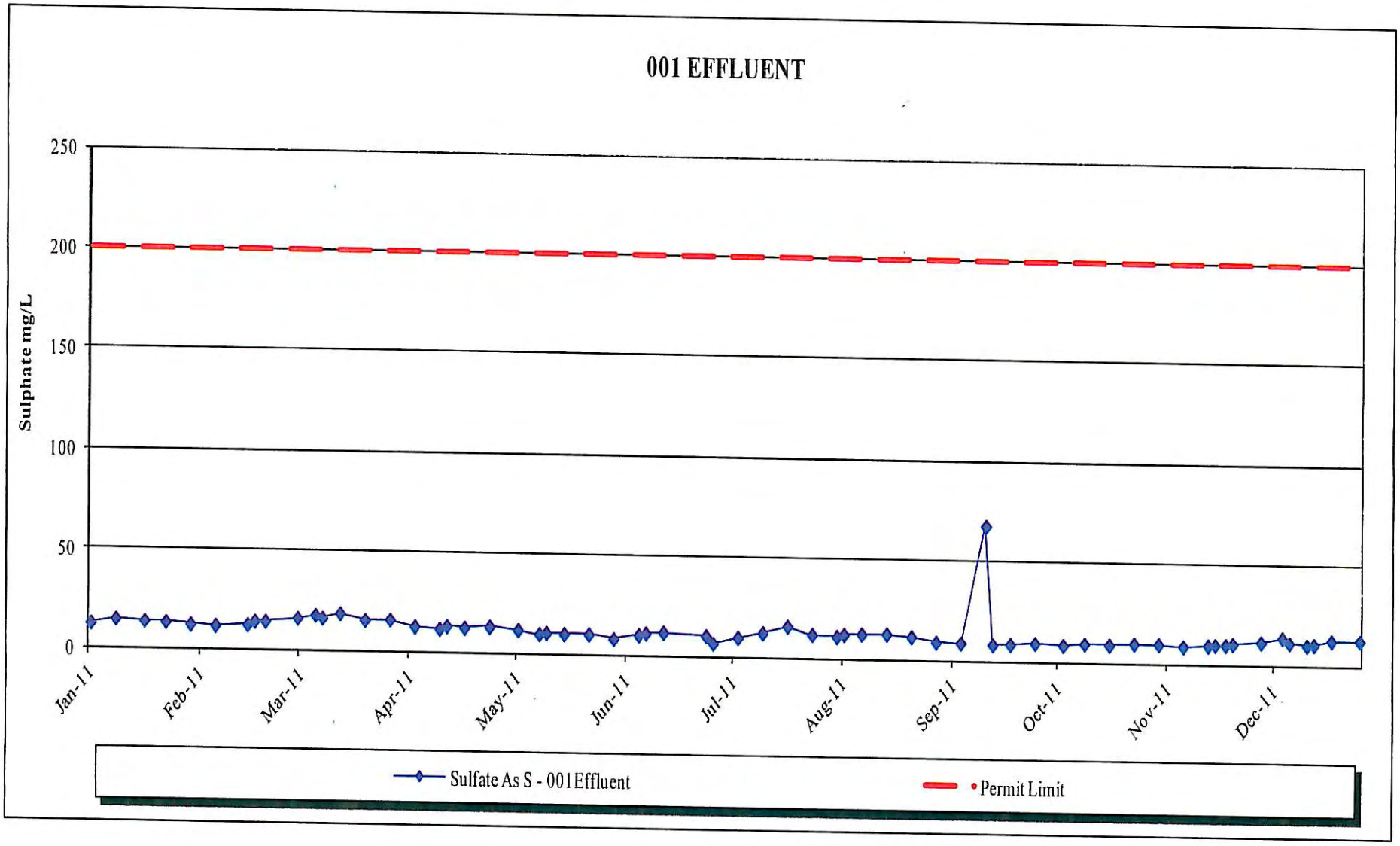

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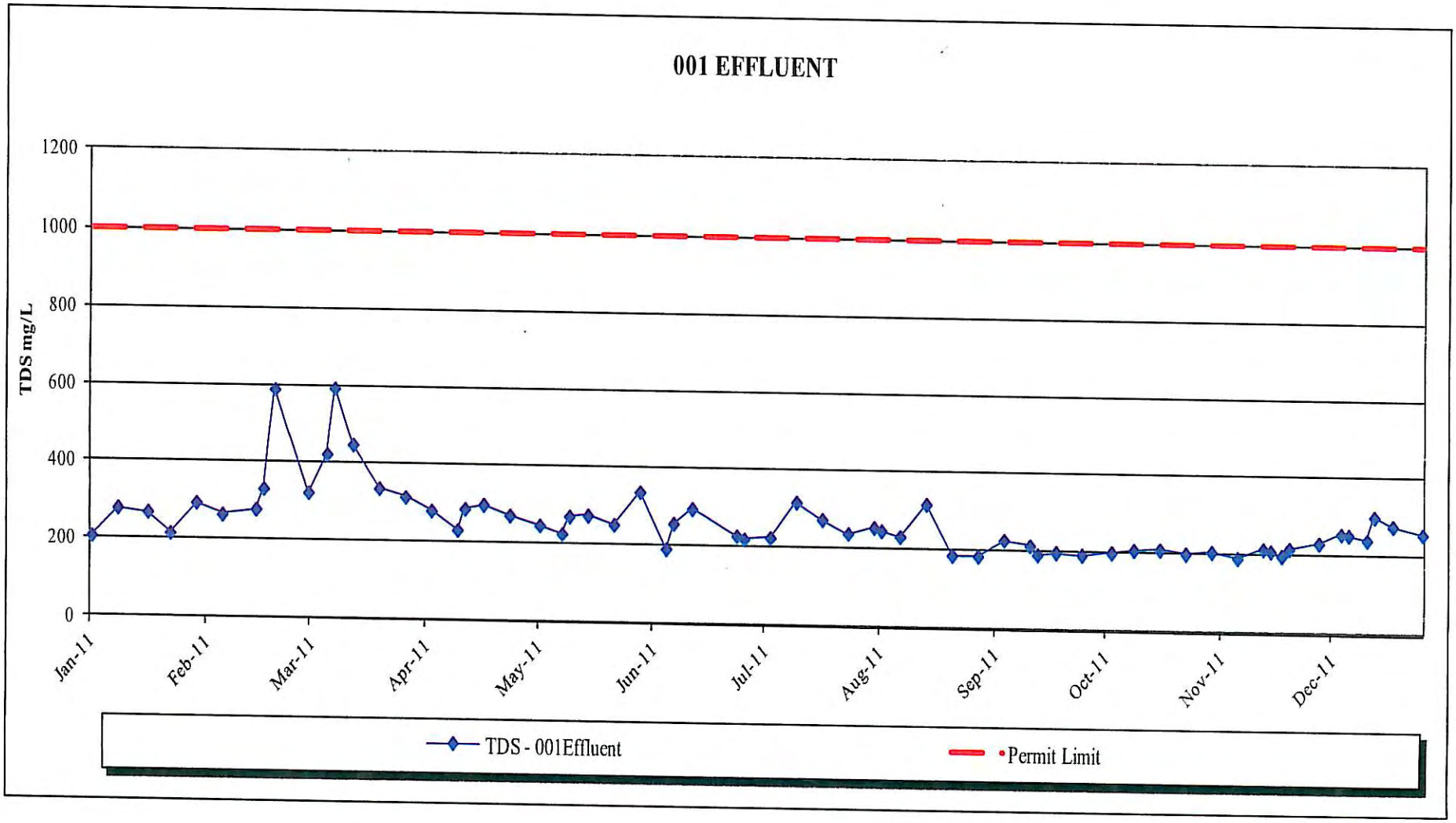


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

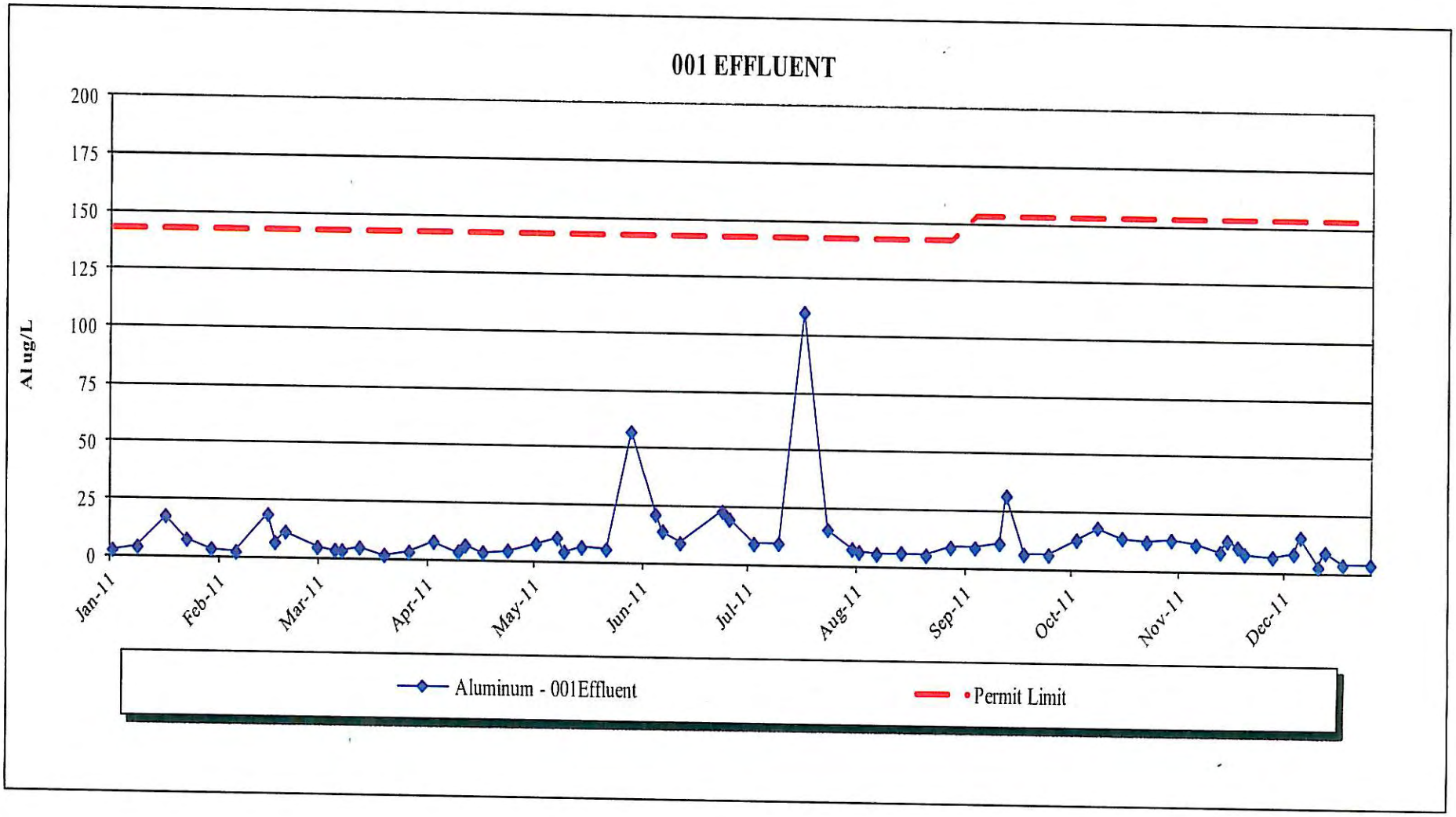


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

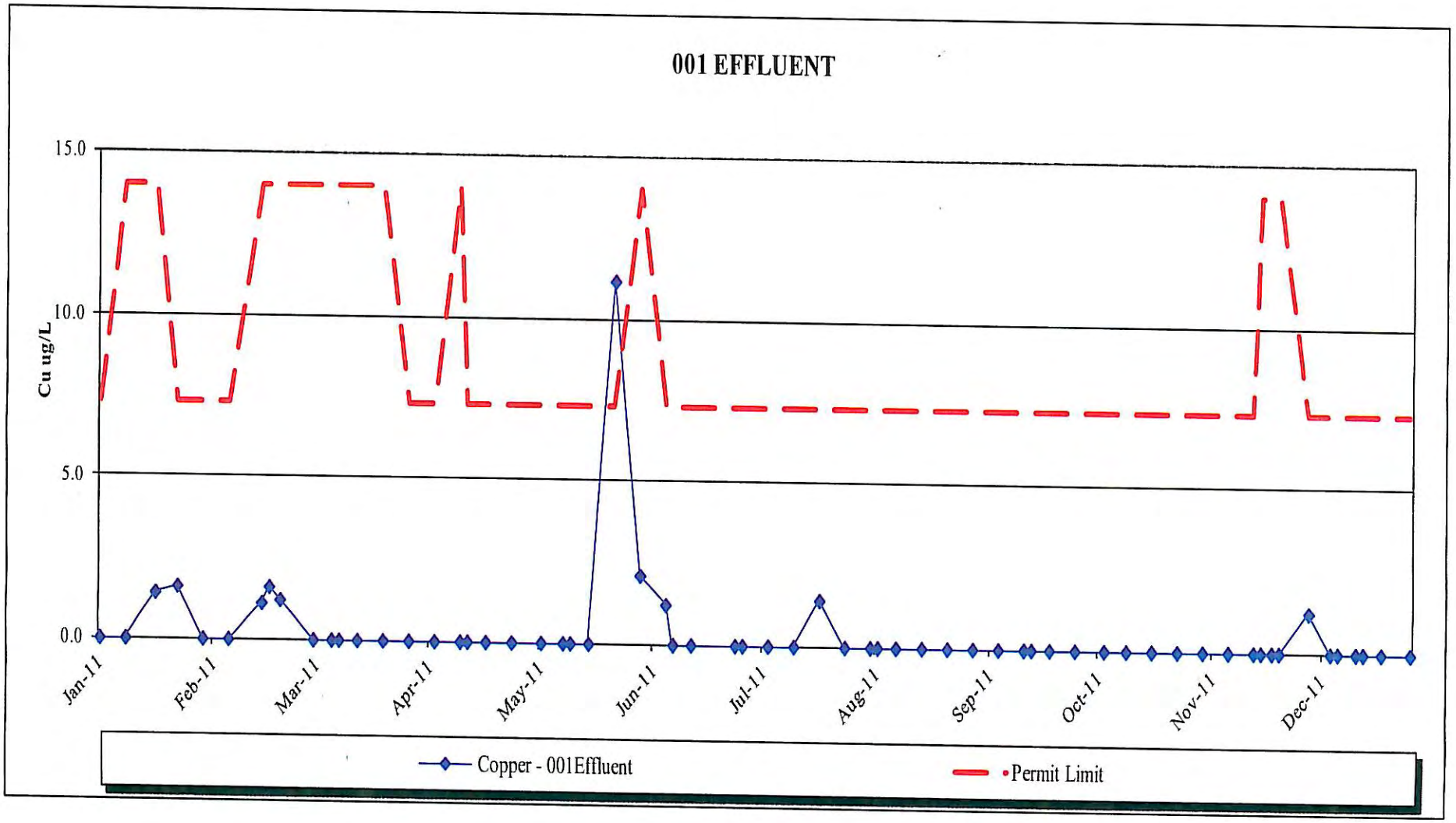


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

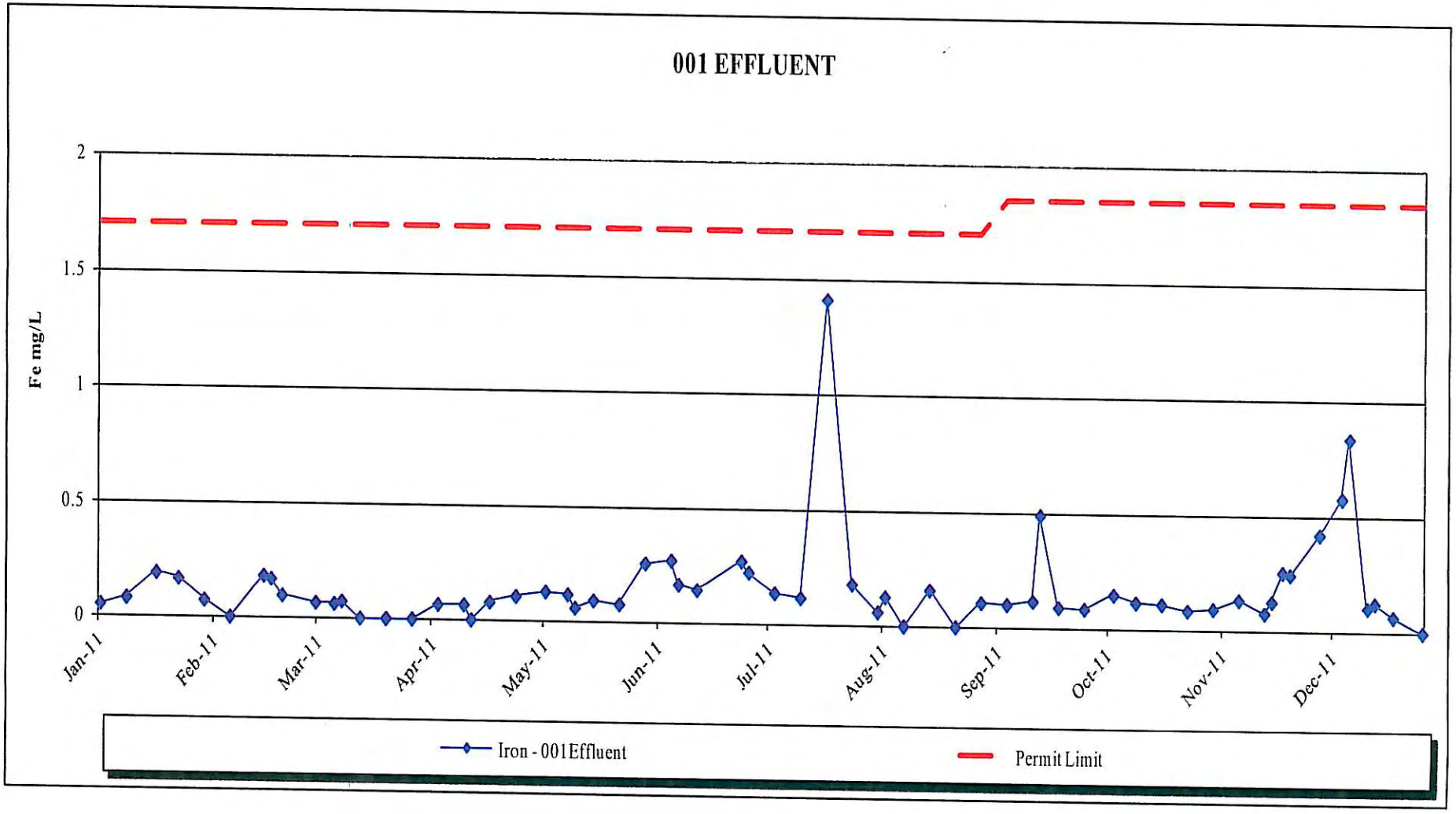


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

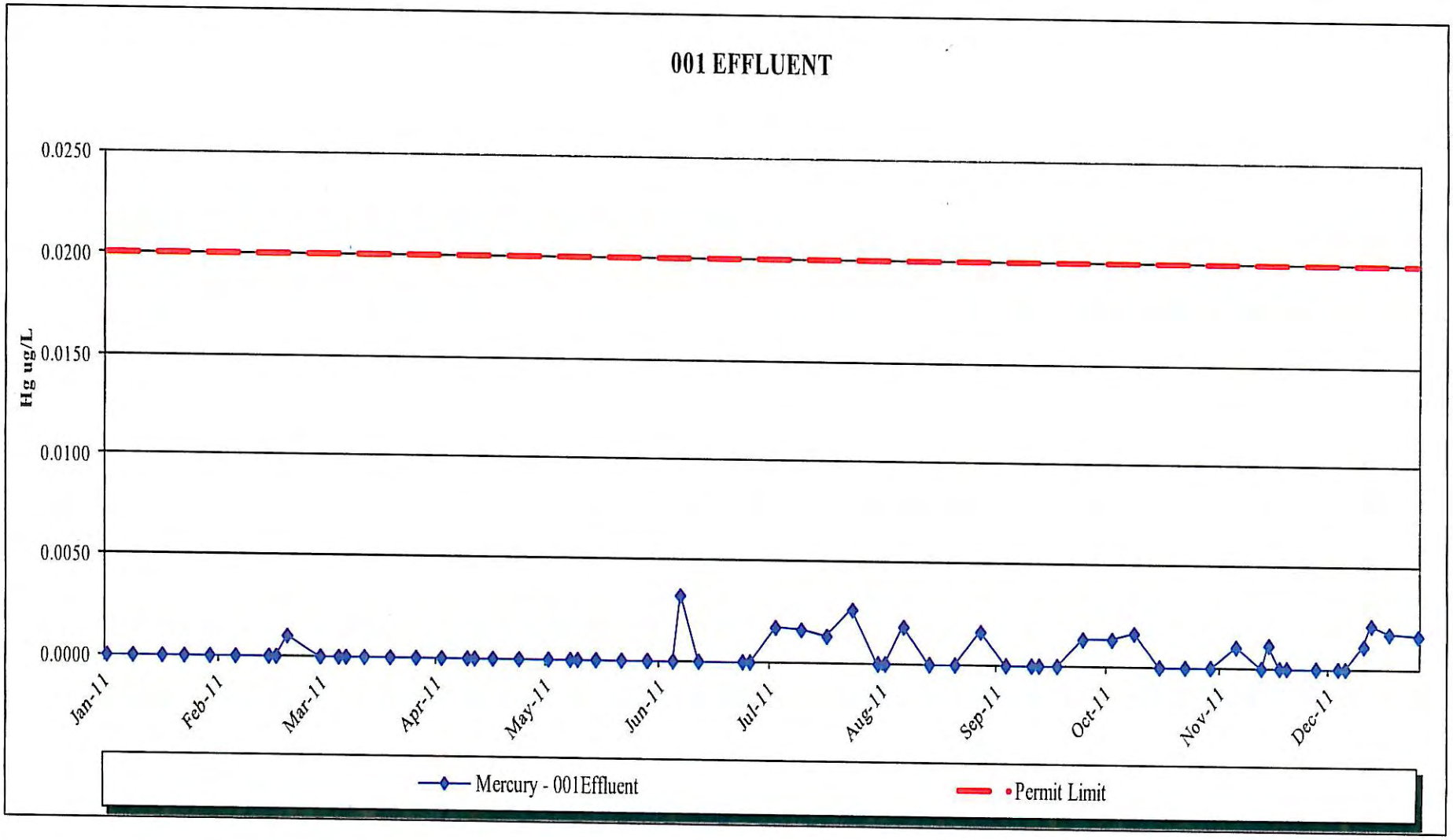


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

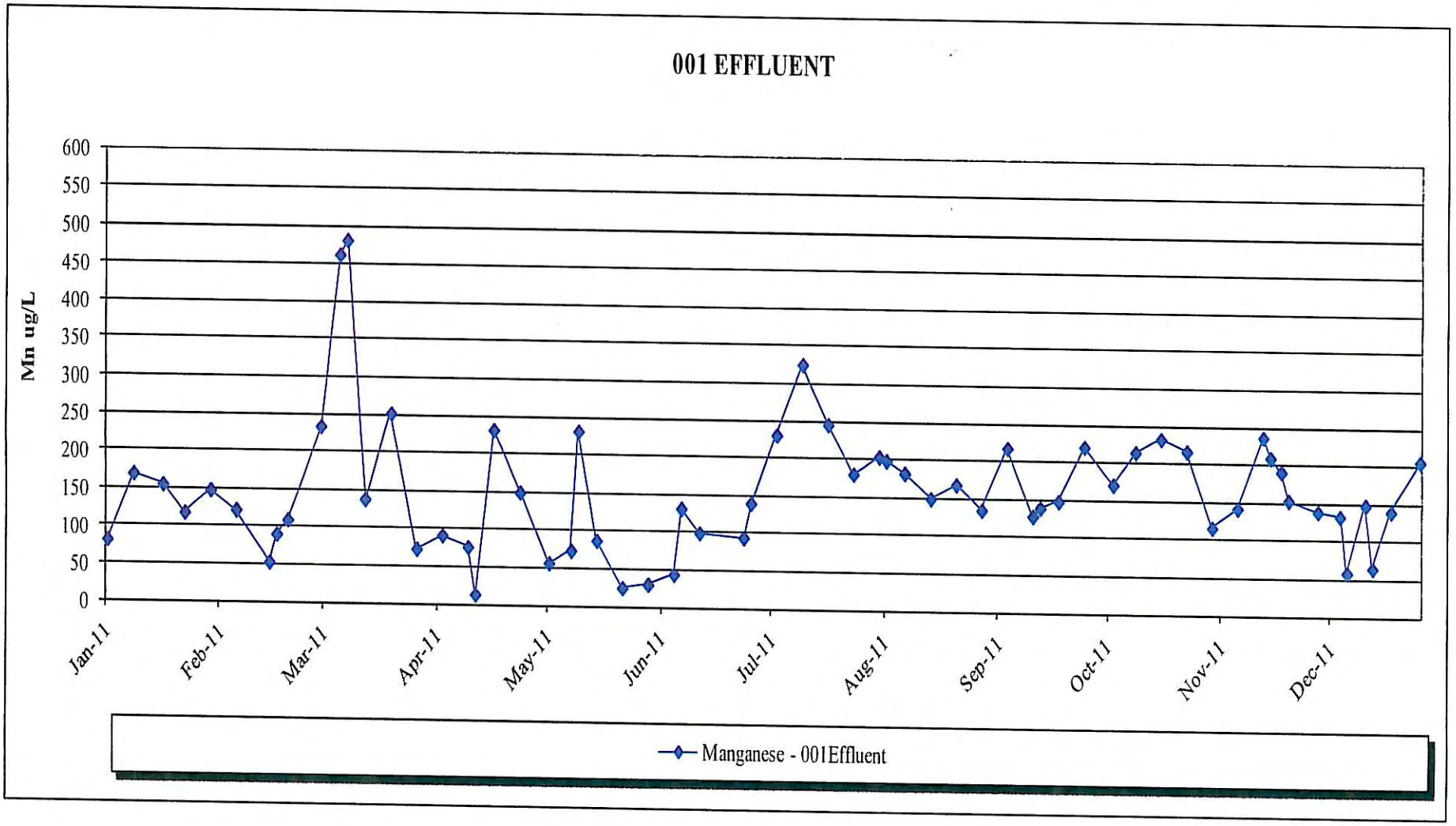


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

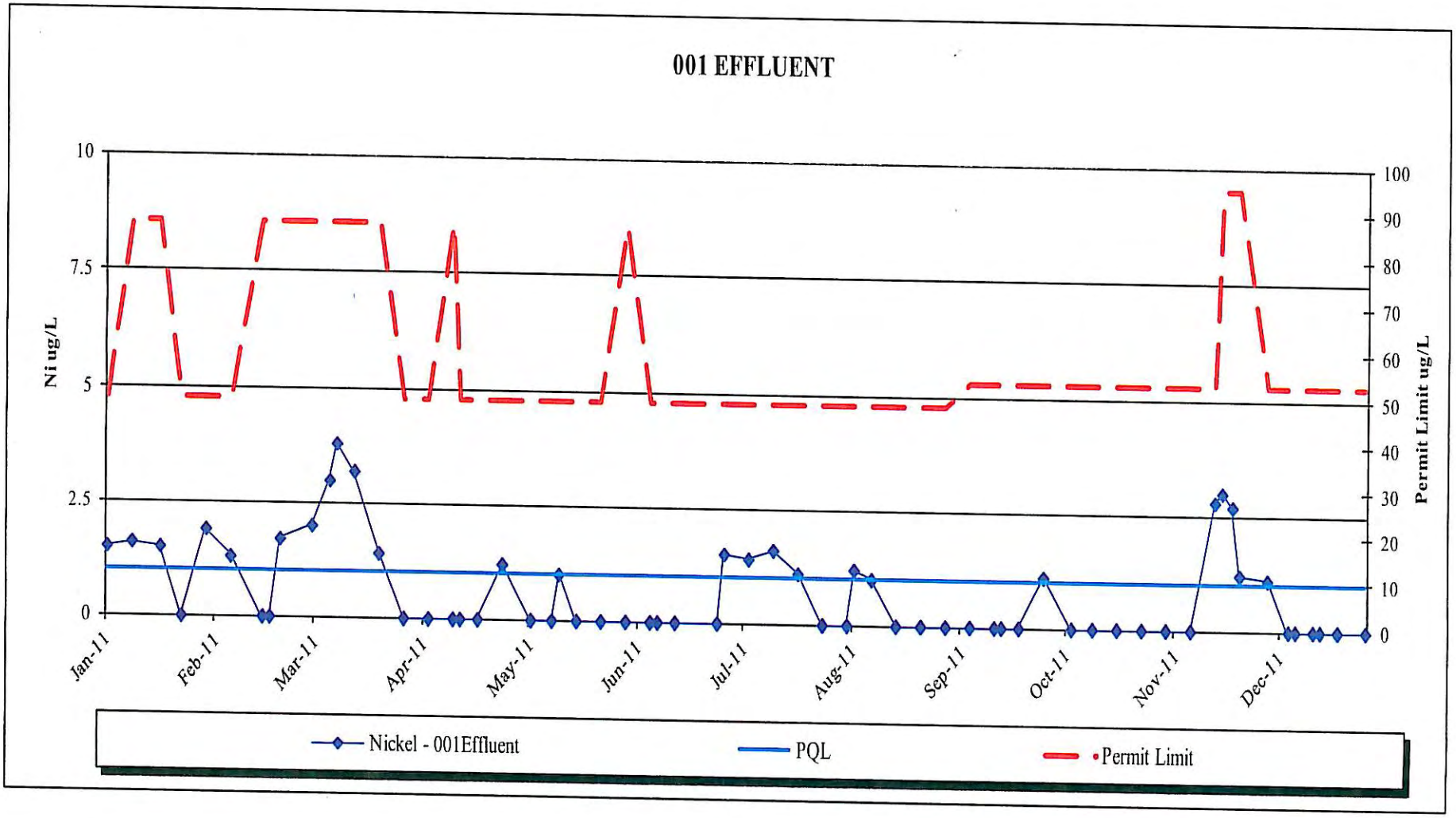


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

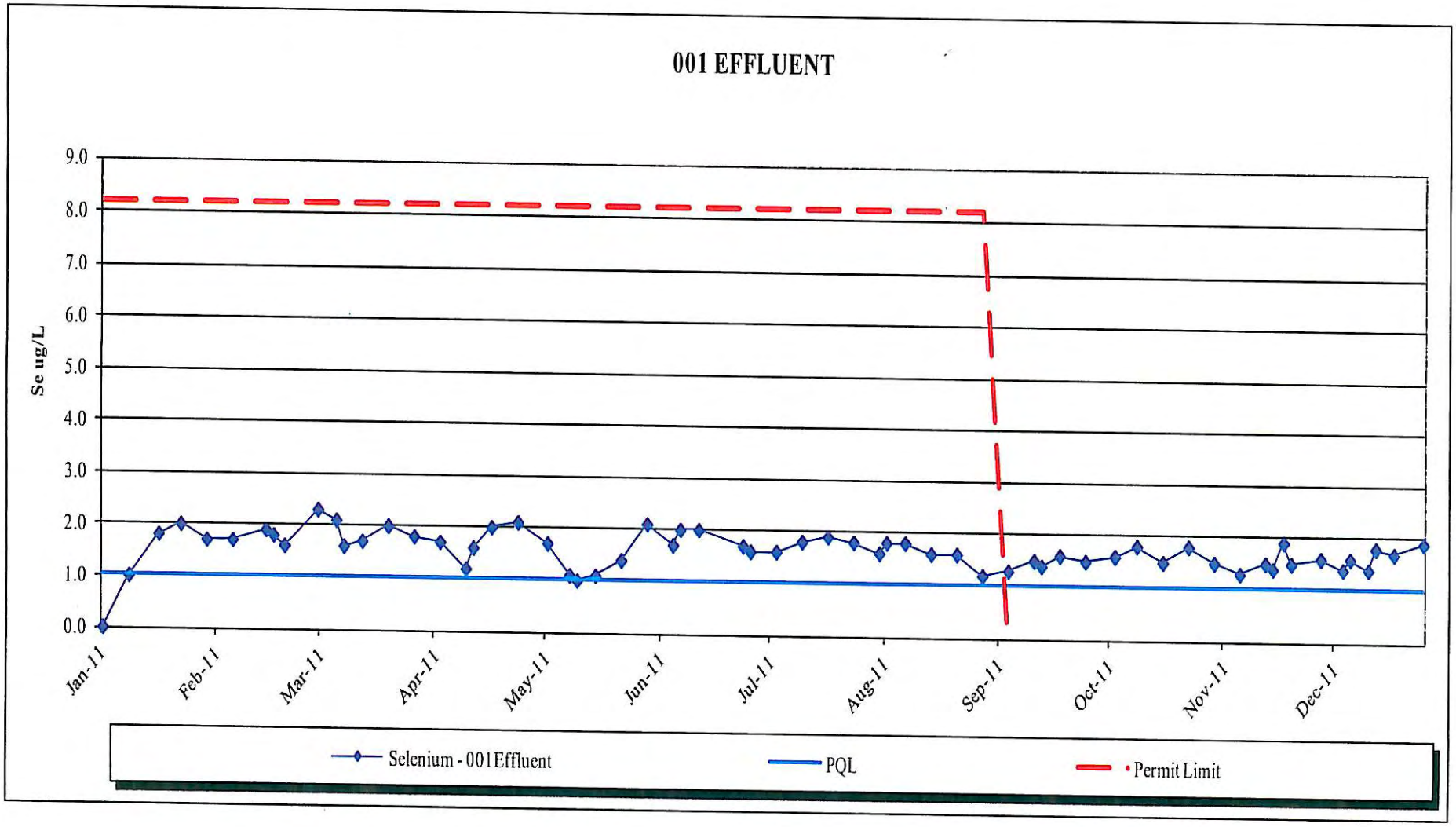


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

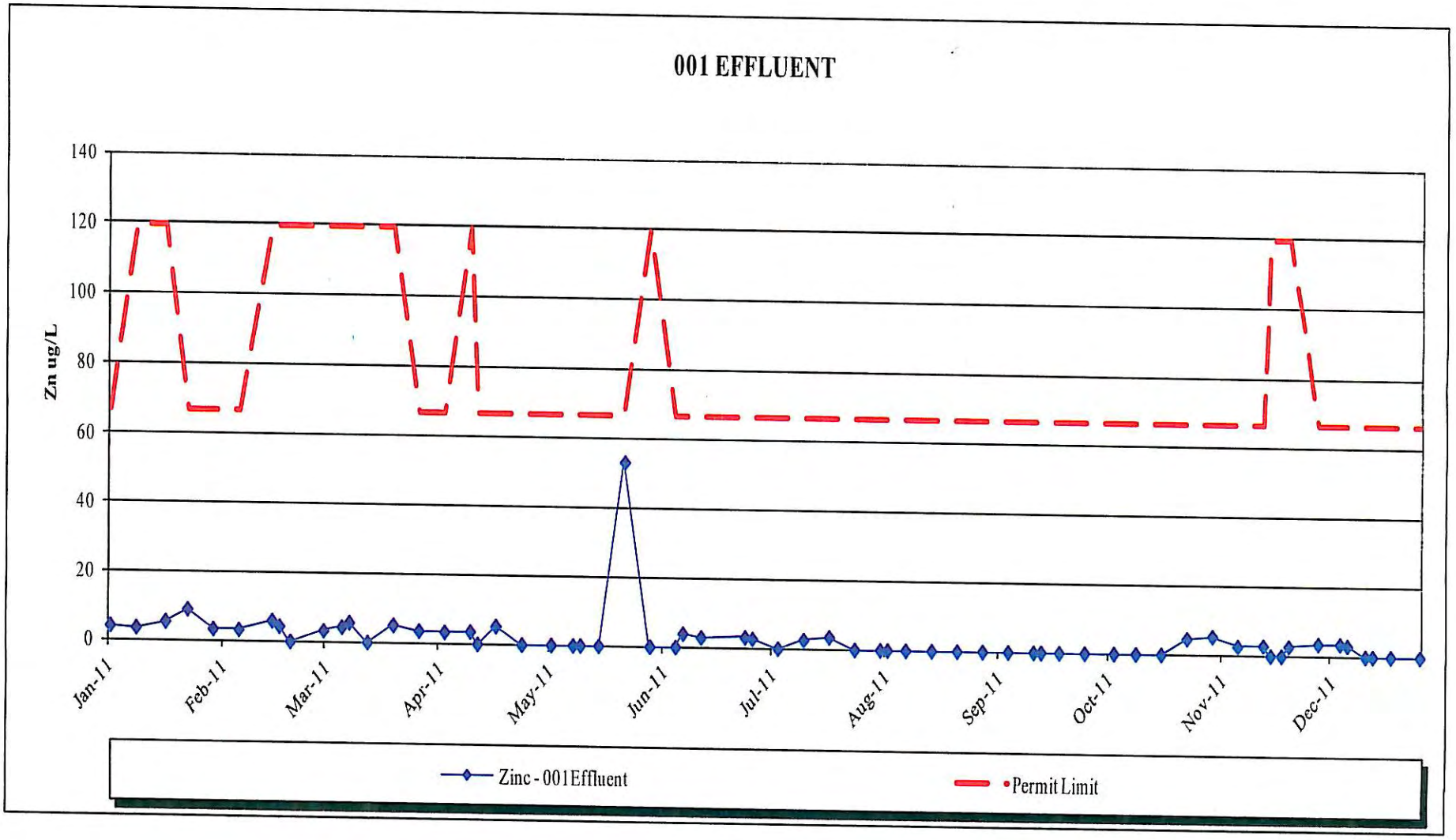


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

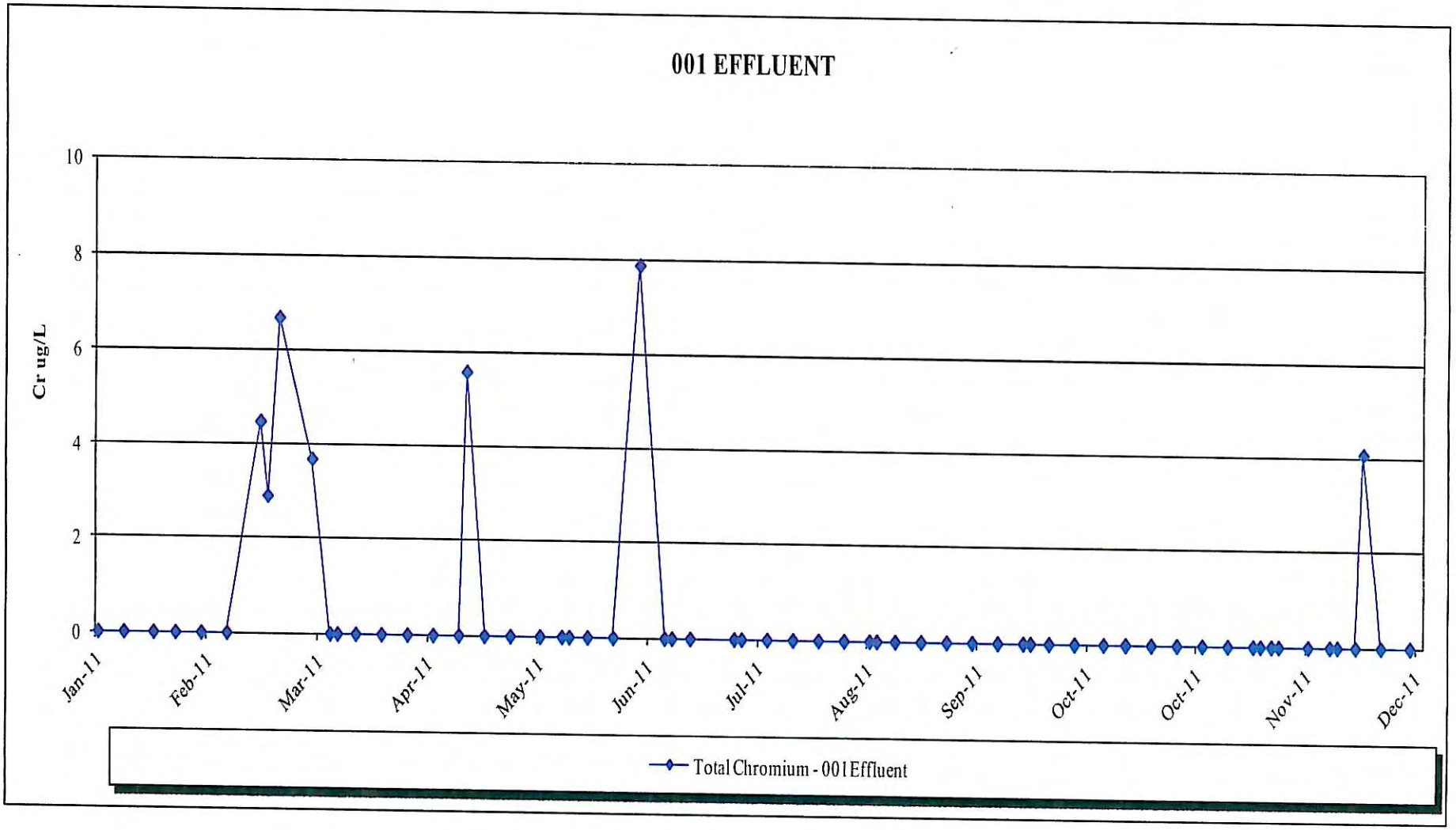


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

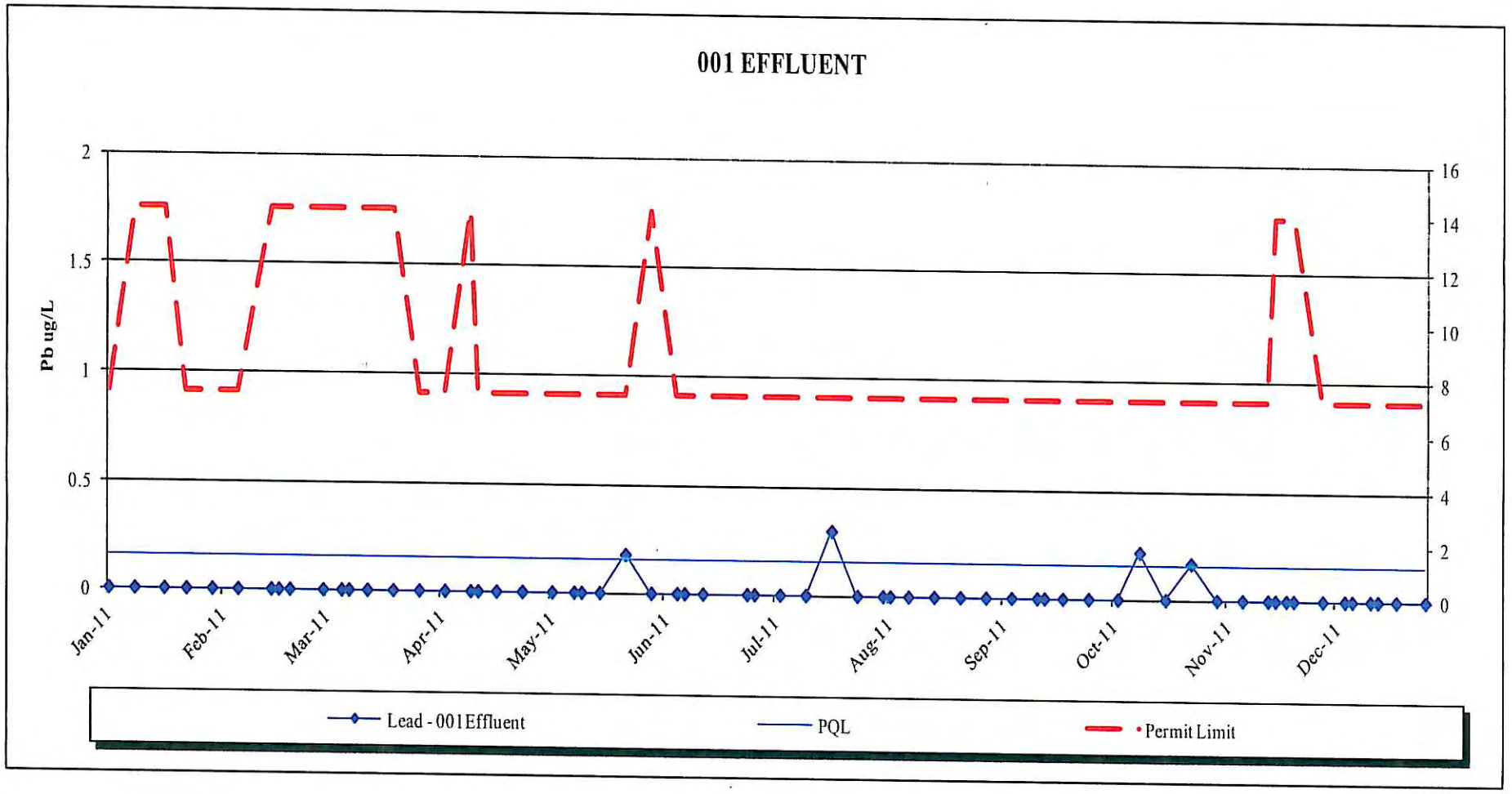


Figure 10c: Outfall 001 Effluent Monitoring Results 2011, Trace Chemistry

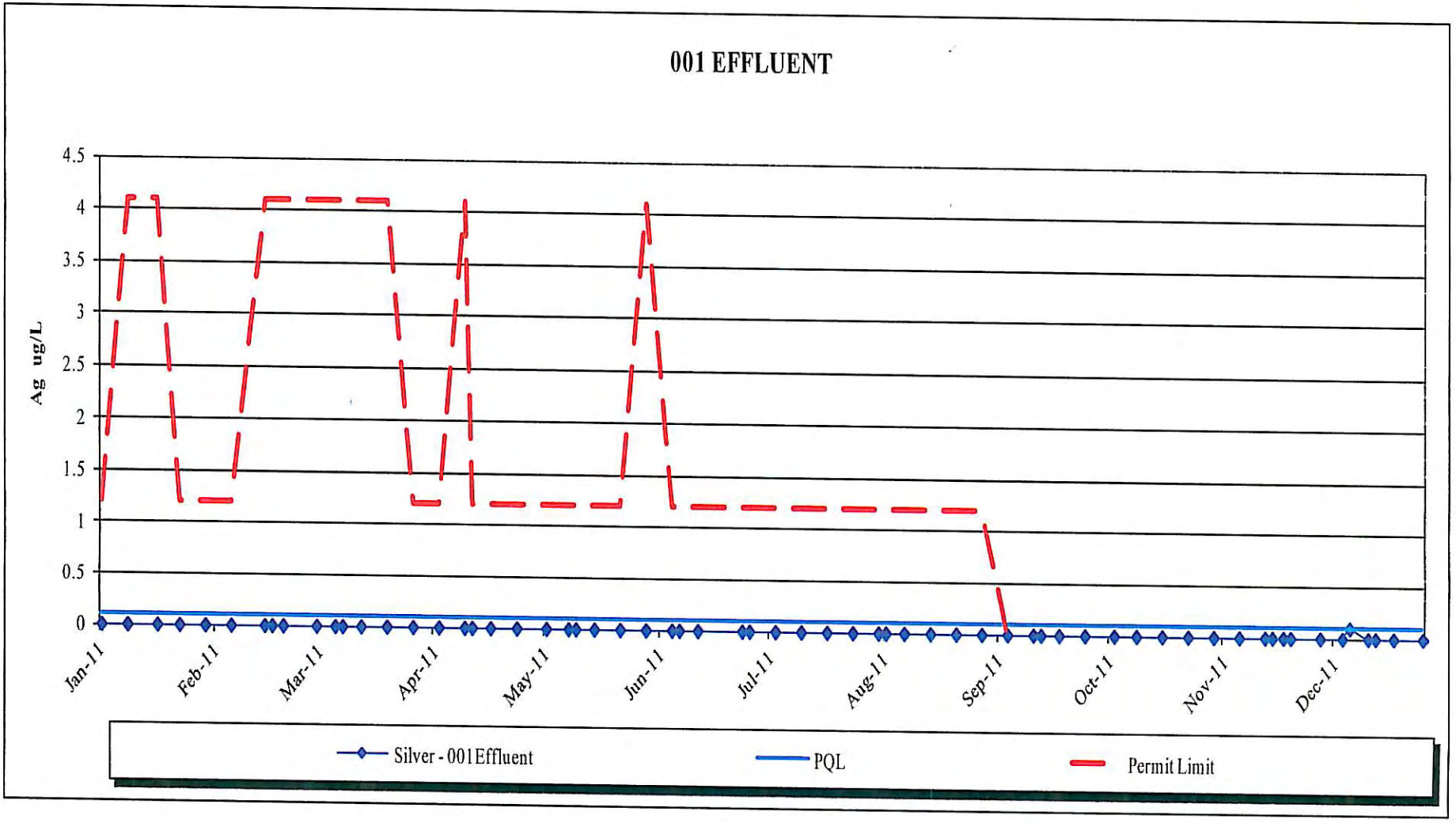
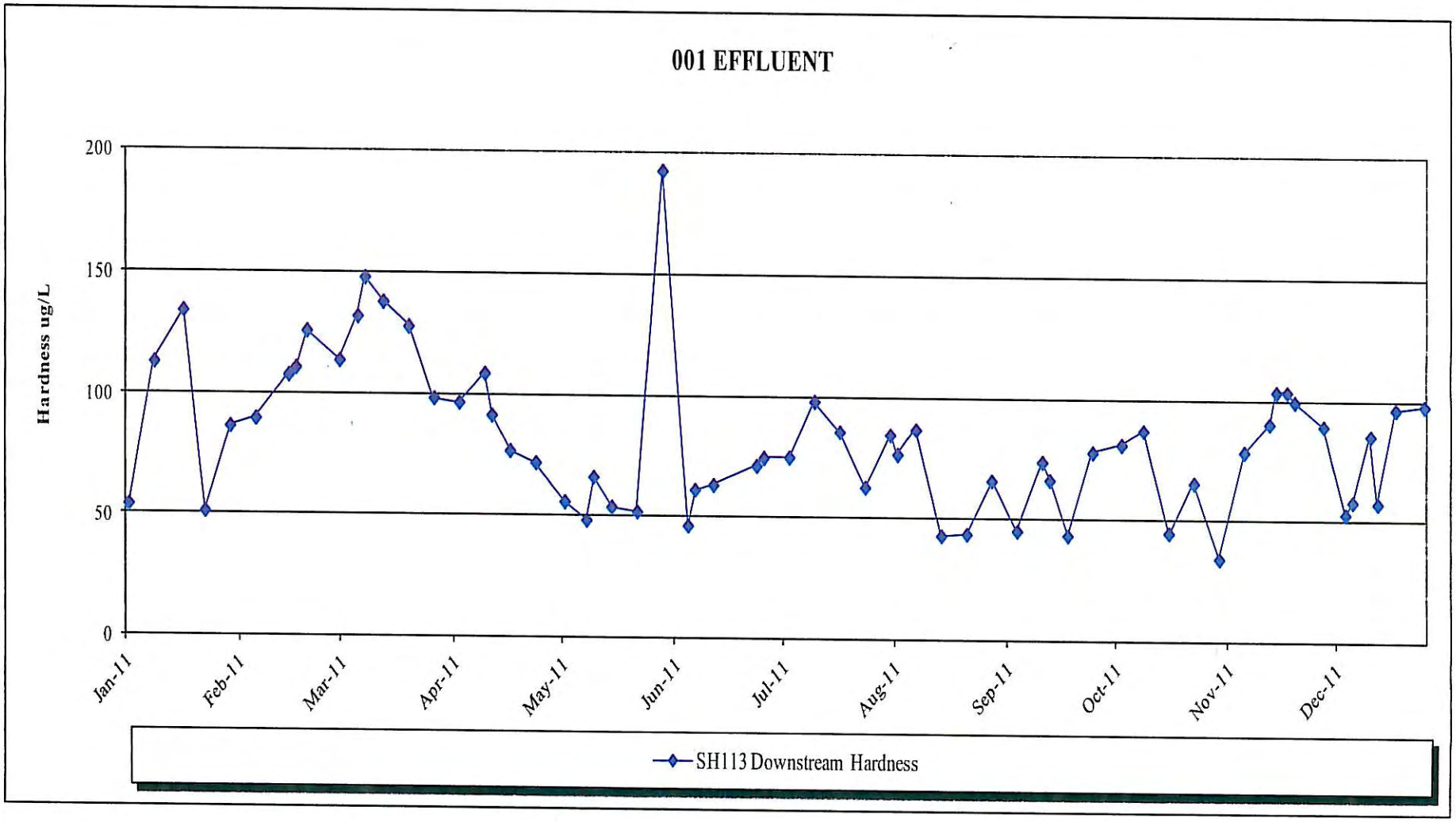


Figure 10d: Outfall 001 Effluent Monitoring Results 2011, Other Parameters



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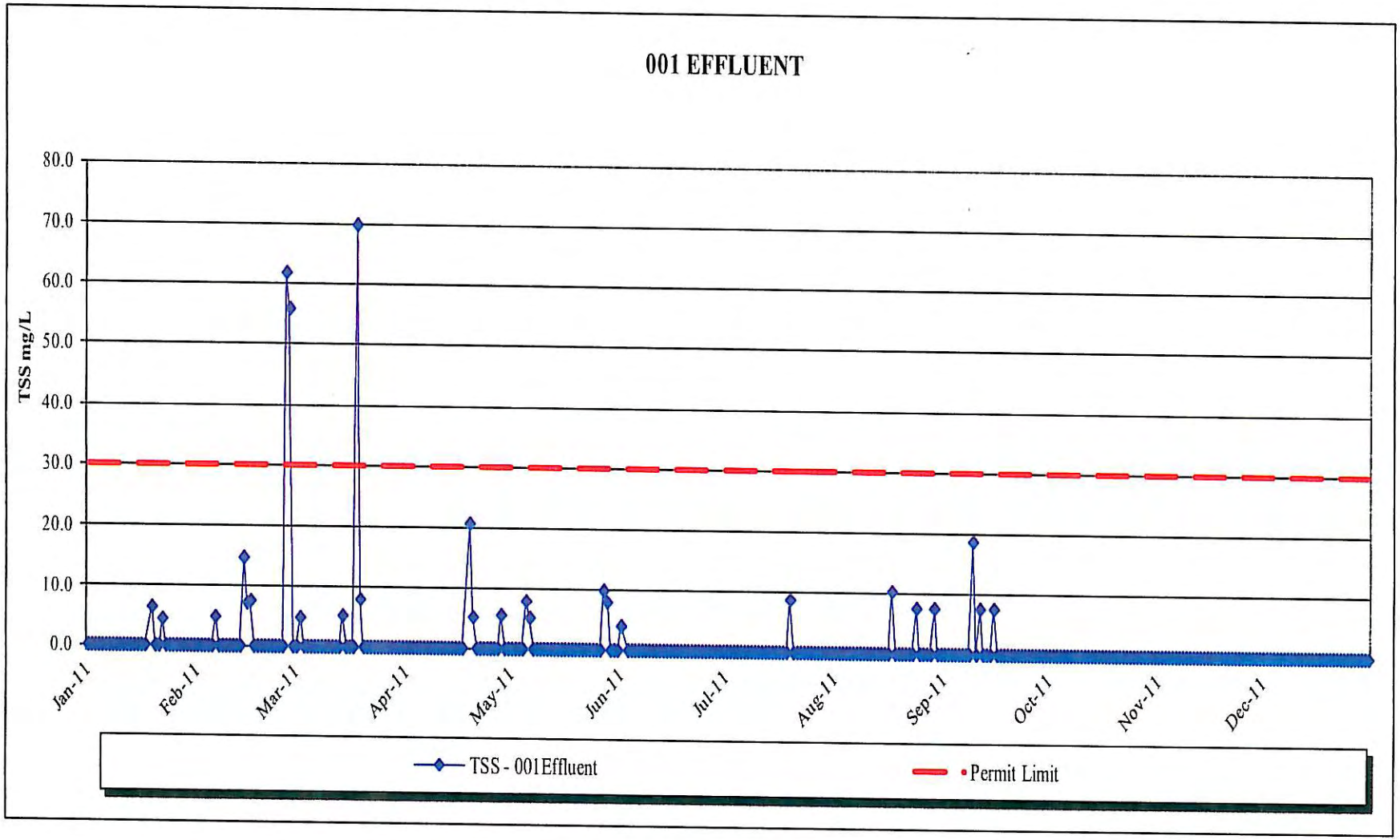

Figure 10d: Outfall 001 Effluent Monitoring Results 2011, Other Parameters

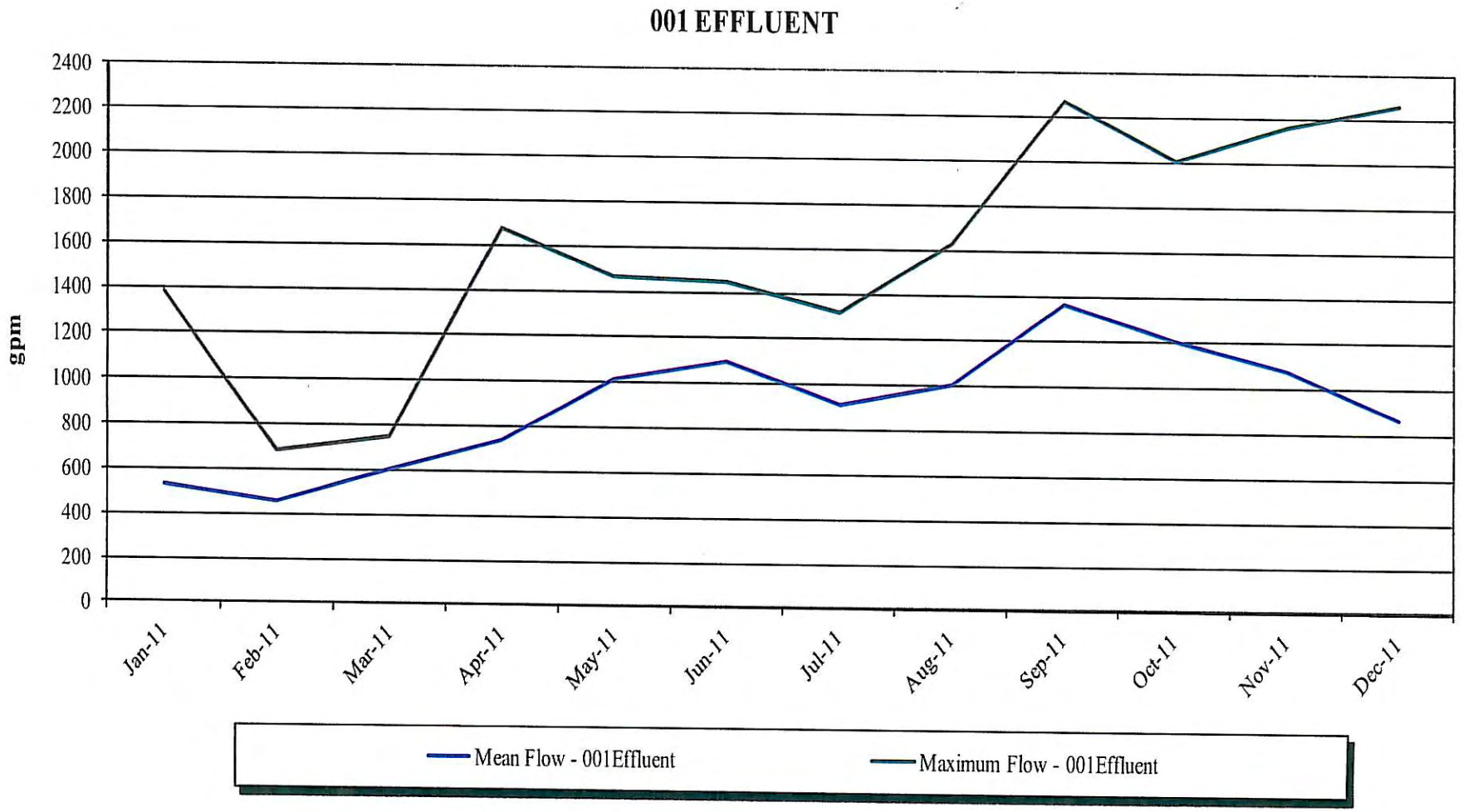

Figure 11a: Outfall 002 Effluent Monitoring Results 2011, Field Parameters

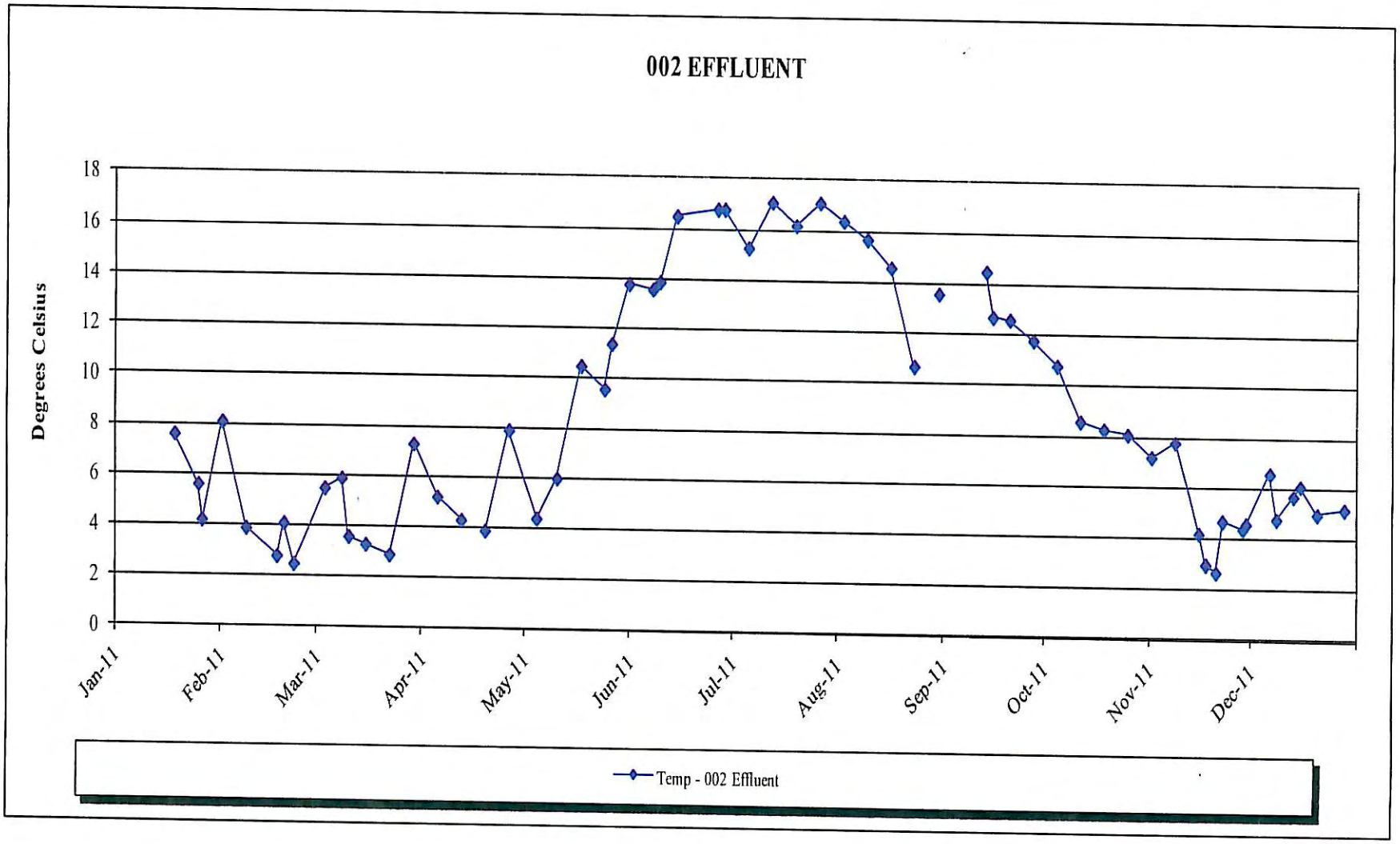

Figure 11b: Outfall 002 Effluent Monitoring Results 2011, Major Chemistry

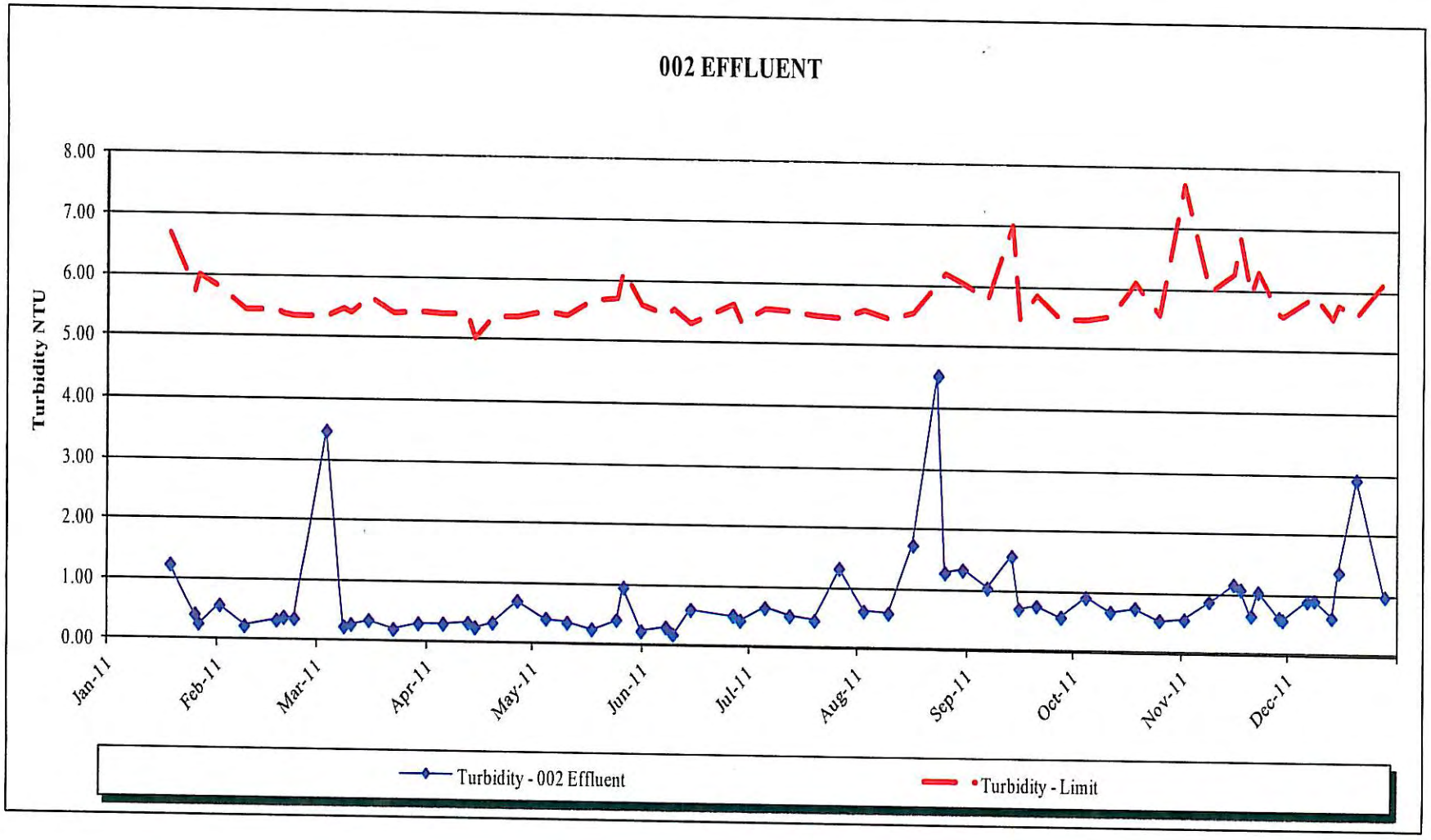

Figure 11b: Outfall 002 Effluent Monitoring Results 2011, Major Chemistry

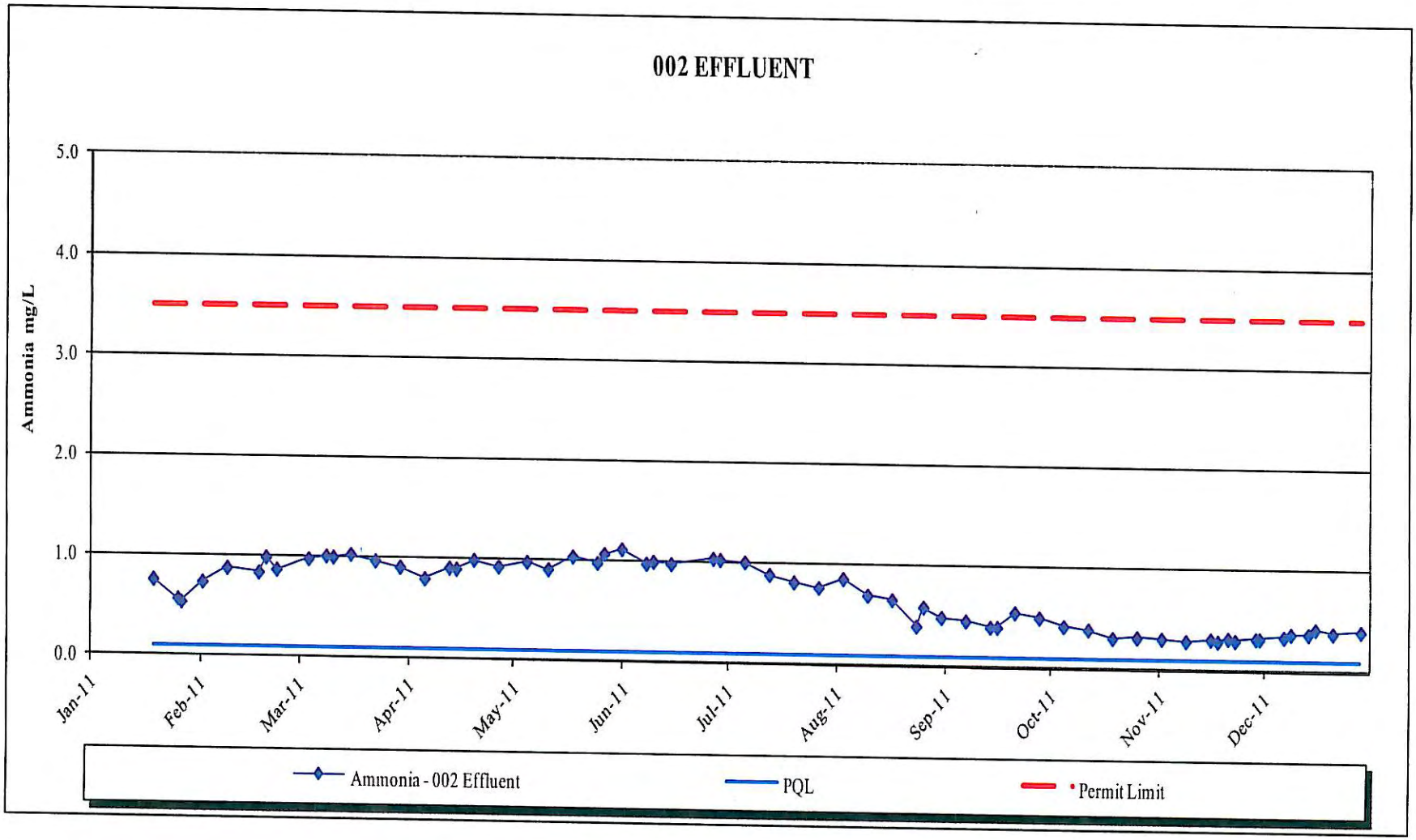

Figure 11b: Outfall 002 Effluent Monitoring Results 2011, Major Chemistry

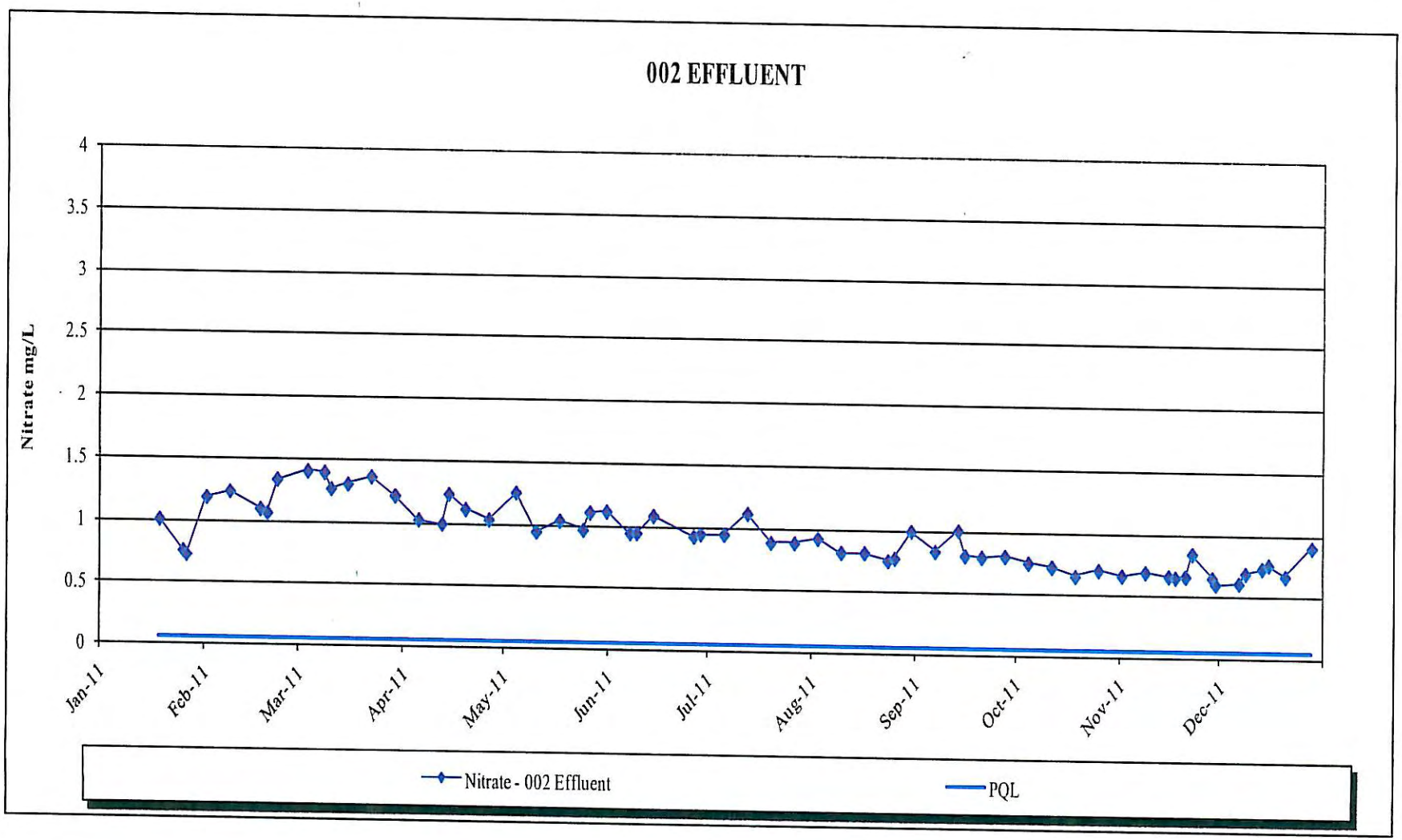

Figure 11b: Outfall 002 Effluent Monitoring Results 2011, Major Chemistry

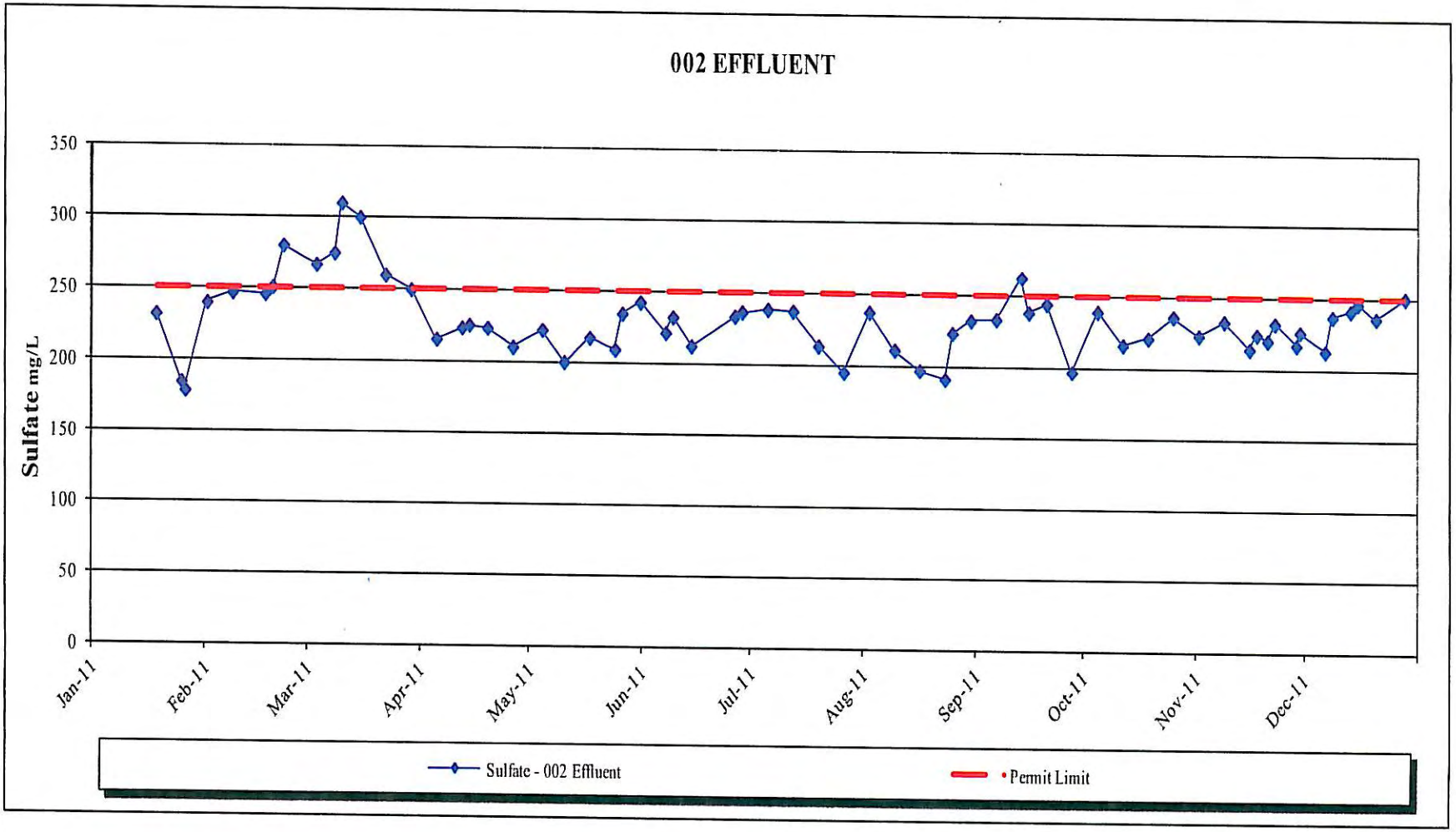

Figure 11b: Outfall 002 Effluent Monitoring Results 2011, Major Chemistry

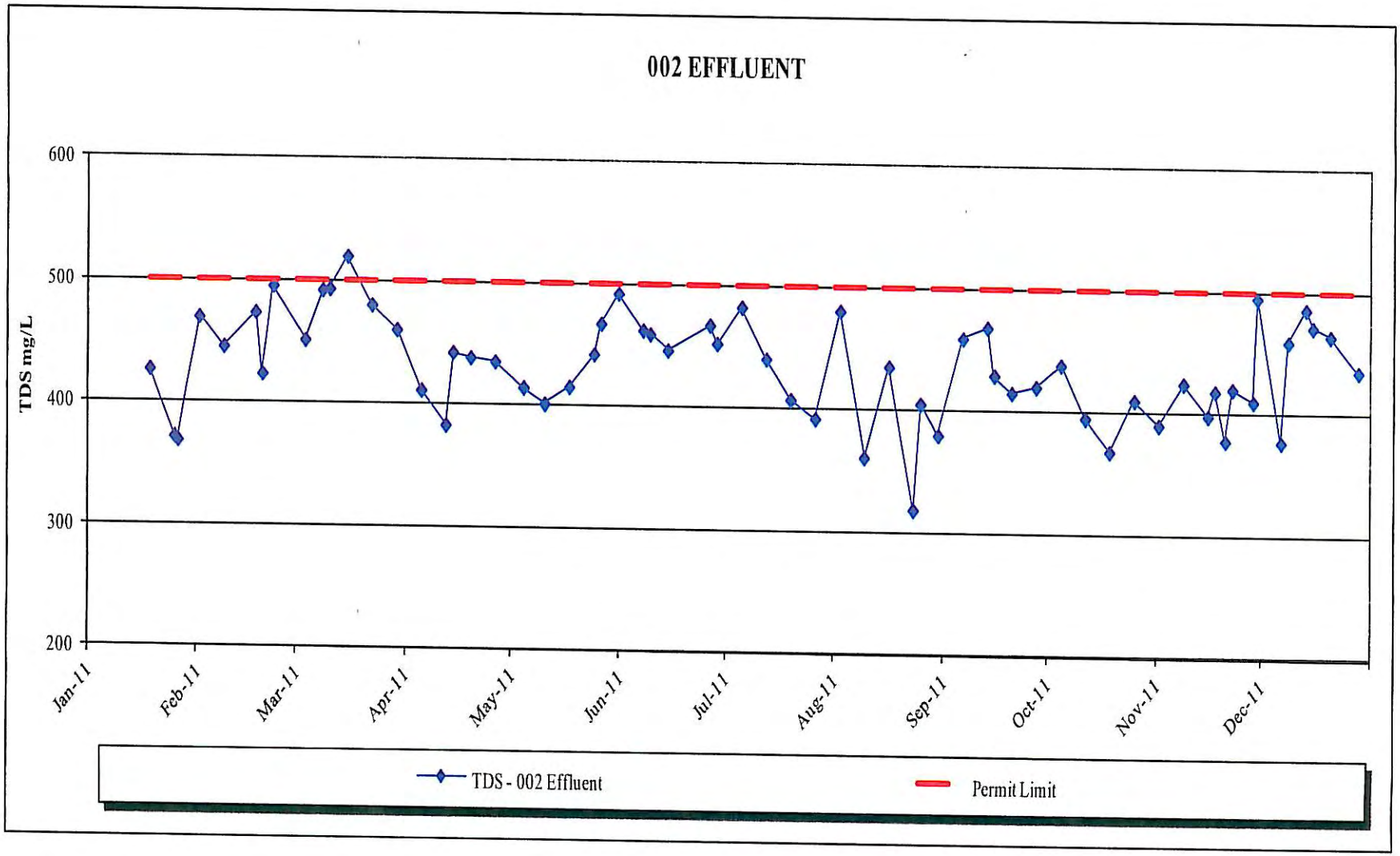

Figure 11b: Outfall 002 Effluent Monitoring Results 2011, Major Chemistry

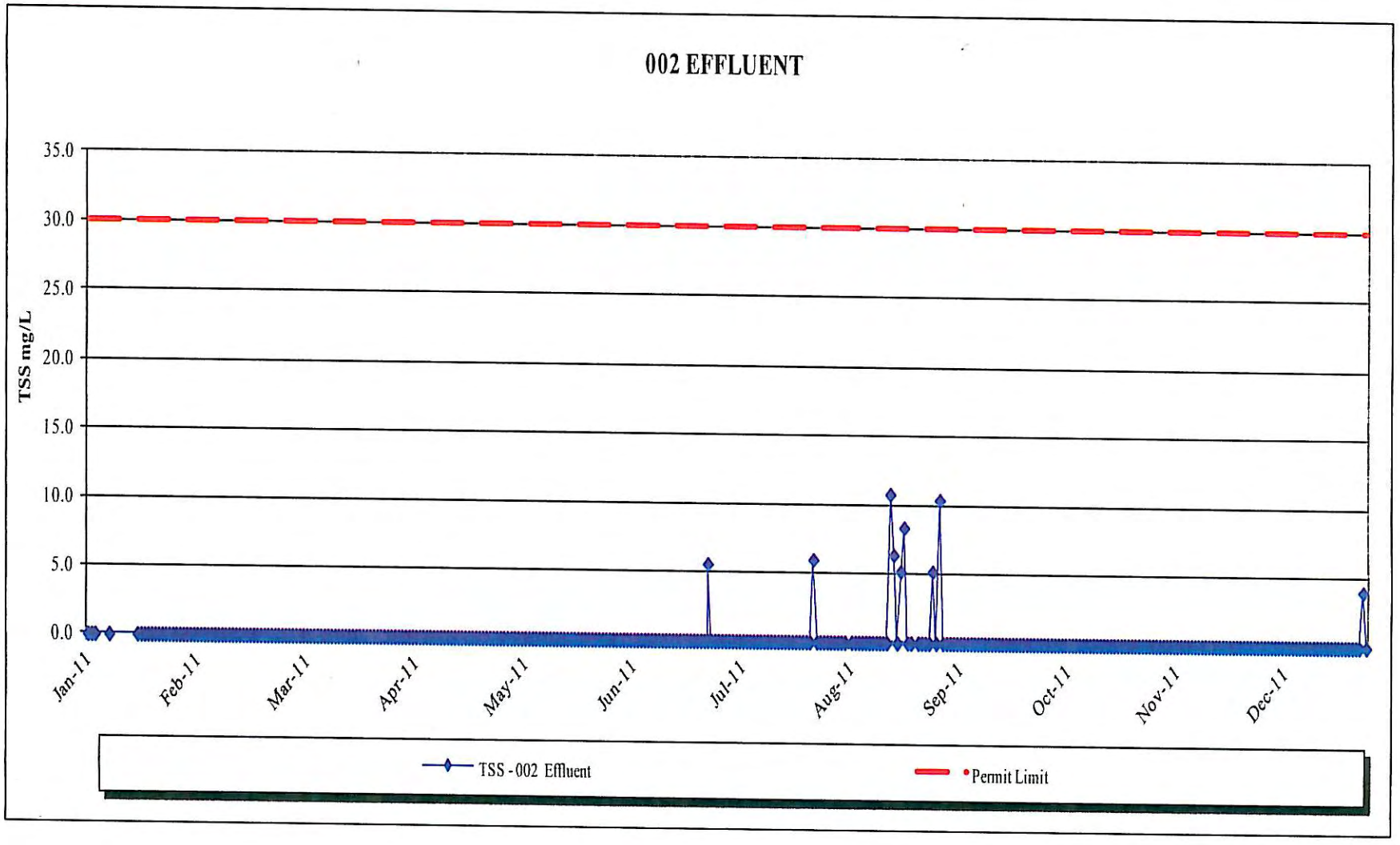

Figure 11c: Outfall 002 Effluent Monitoring Results 2011, Trace Chemistry

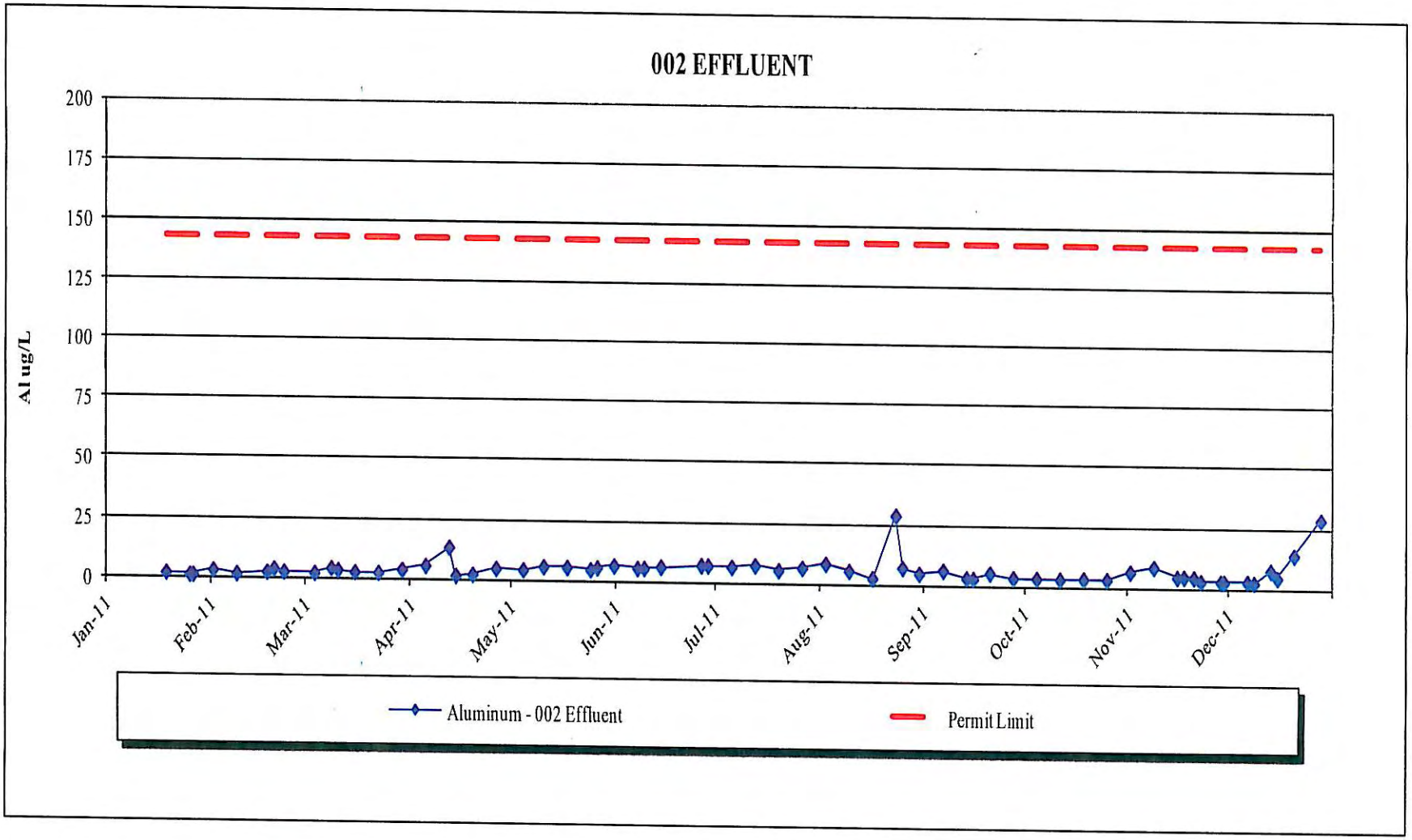

Figure 11c: Outfall 002 Effluent Monitoring Results 2011, Trace Chemistry

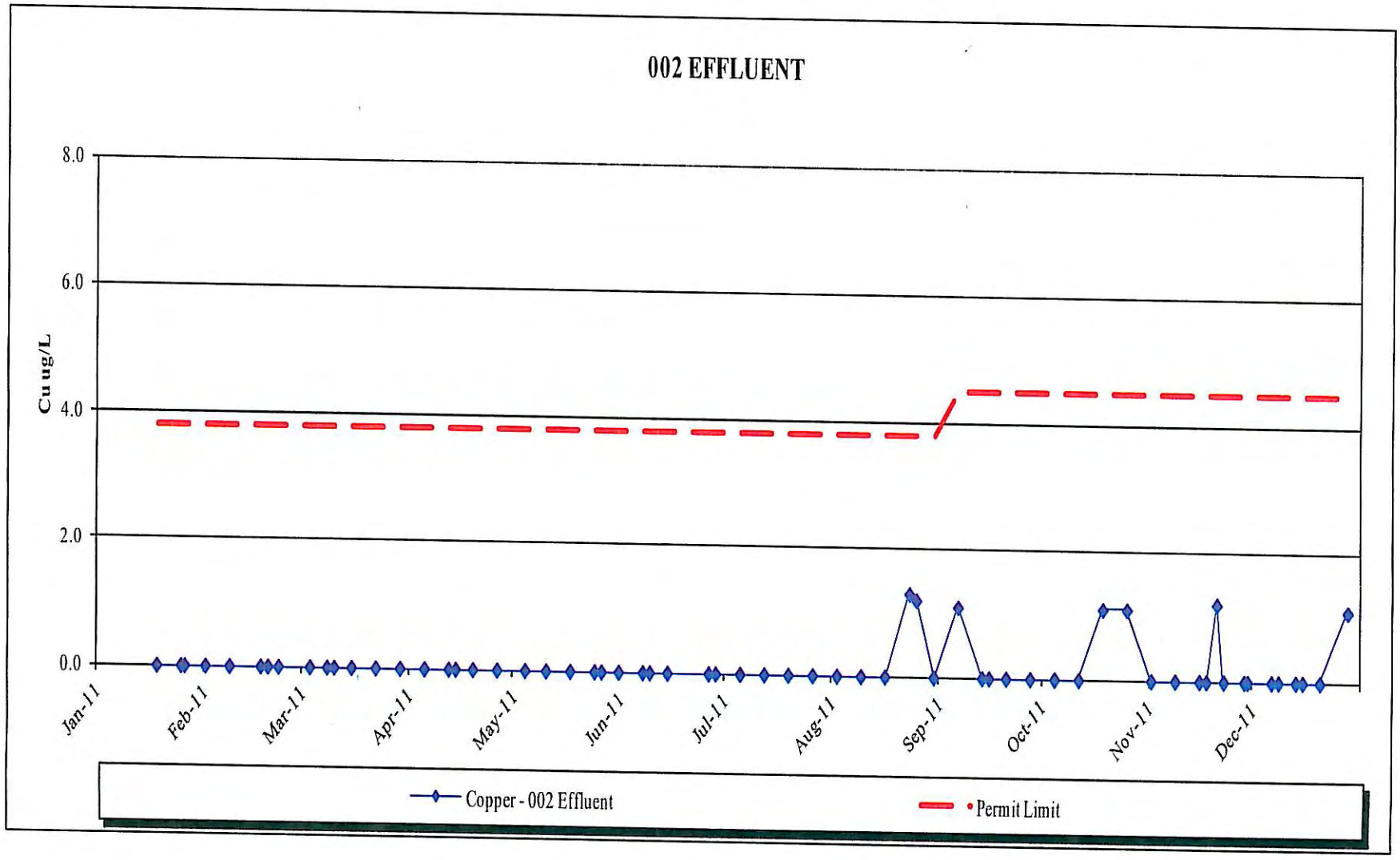

Figure 11c: Outfall 002 Effluent Monitoring Results 2011, Trace Chemistry

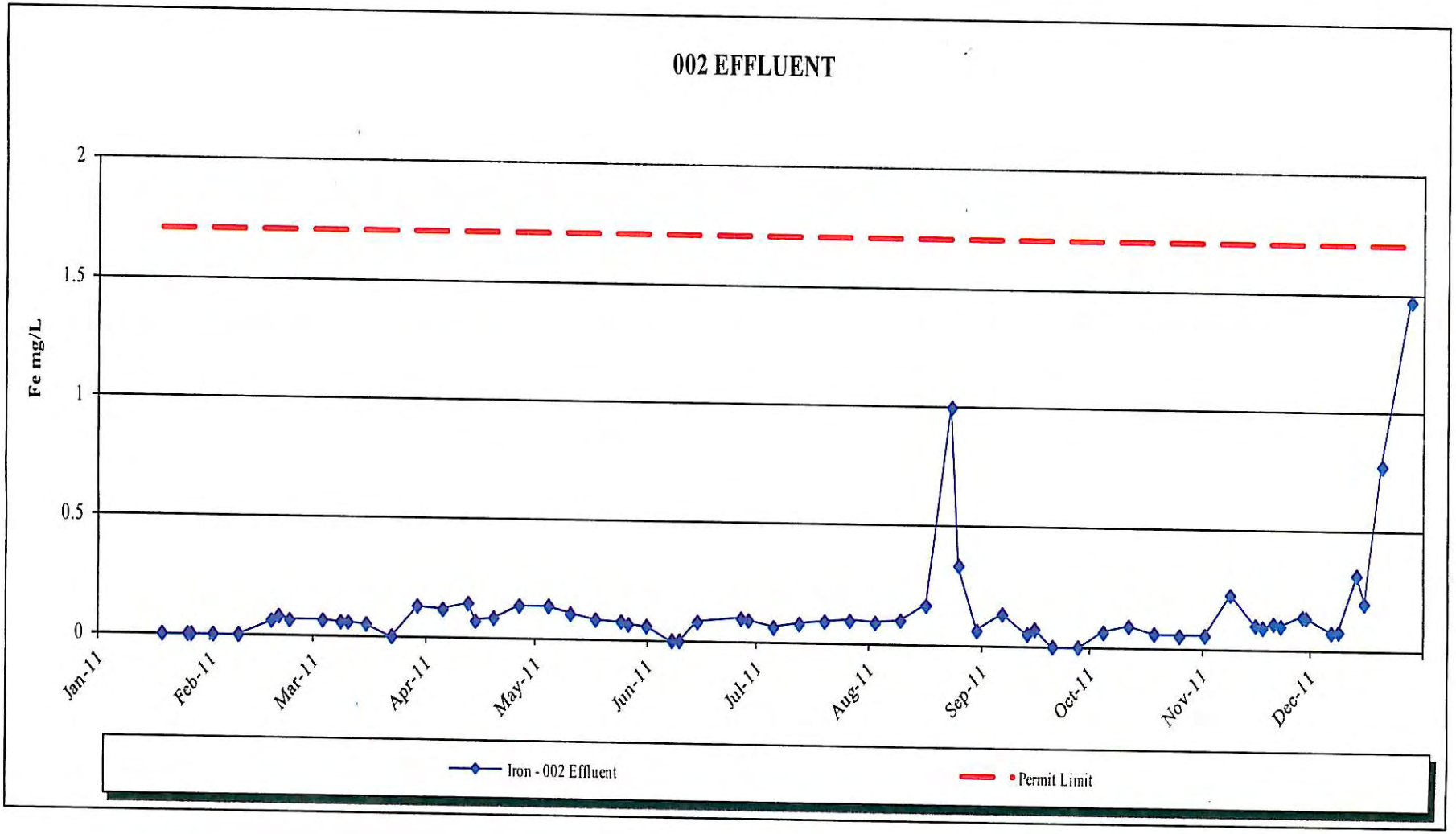

Figure 11c: Outfall 002 Effluent Monitoring Results 2011, Trace Chemistry

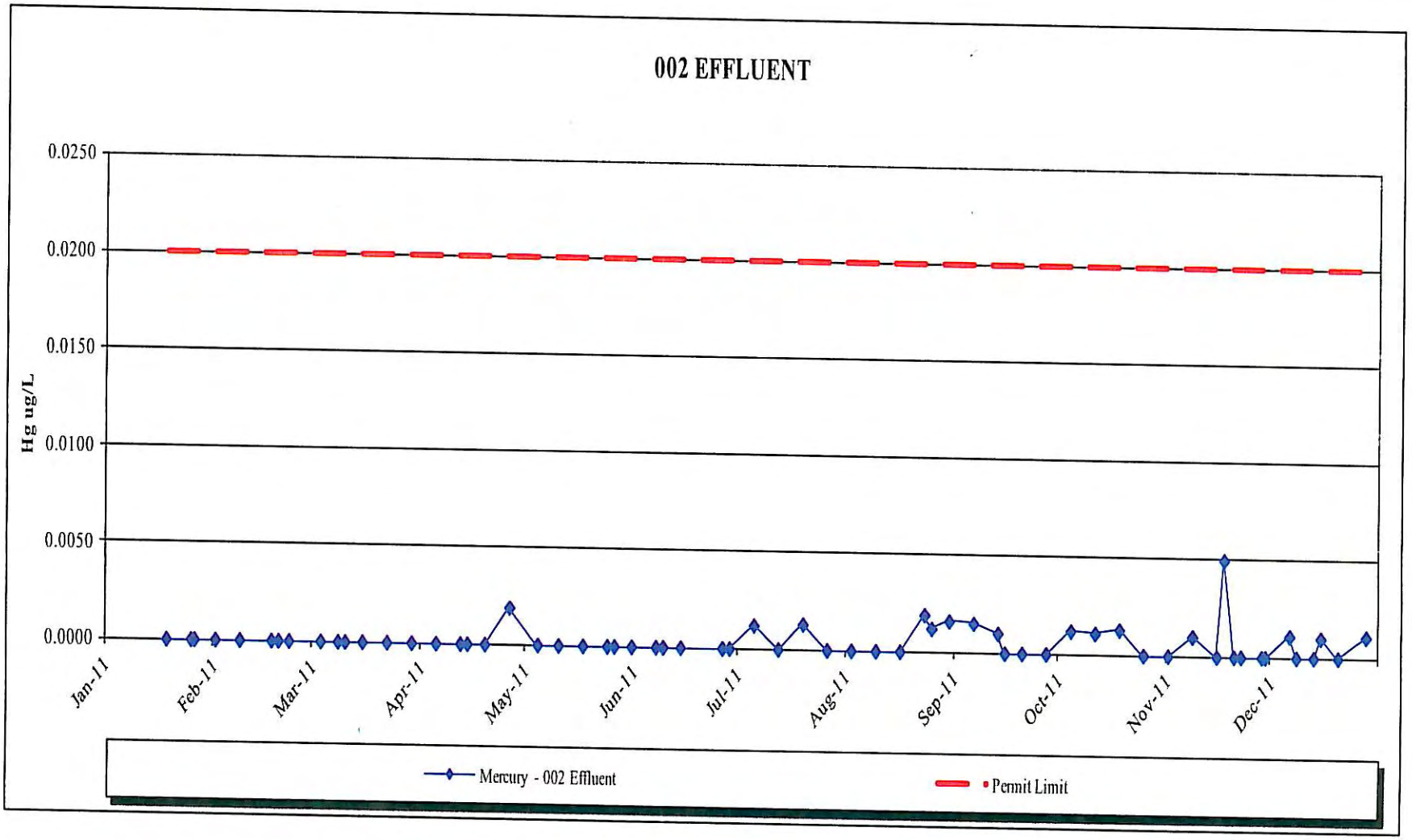

Figure 11c: Outfall 002 Effluent Monitoring Results 2011, Trace Chemistry

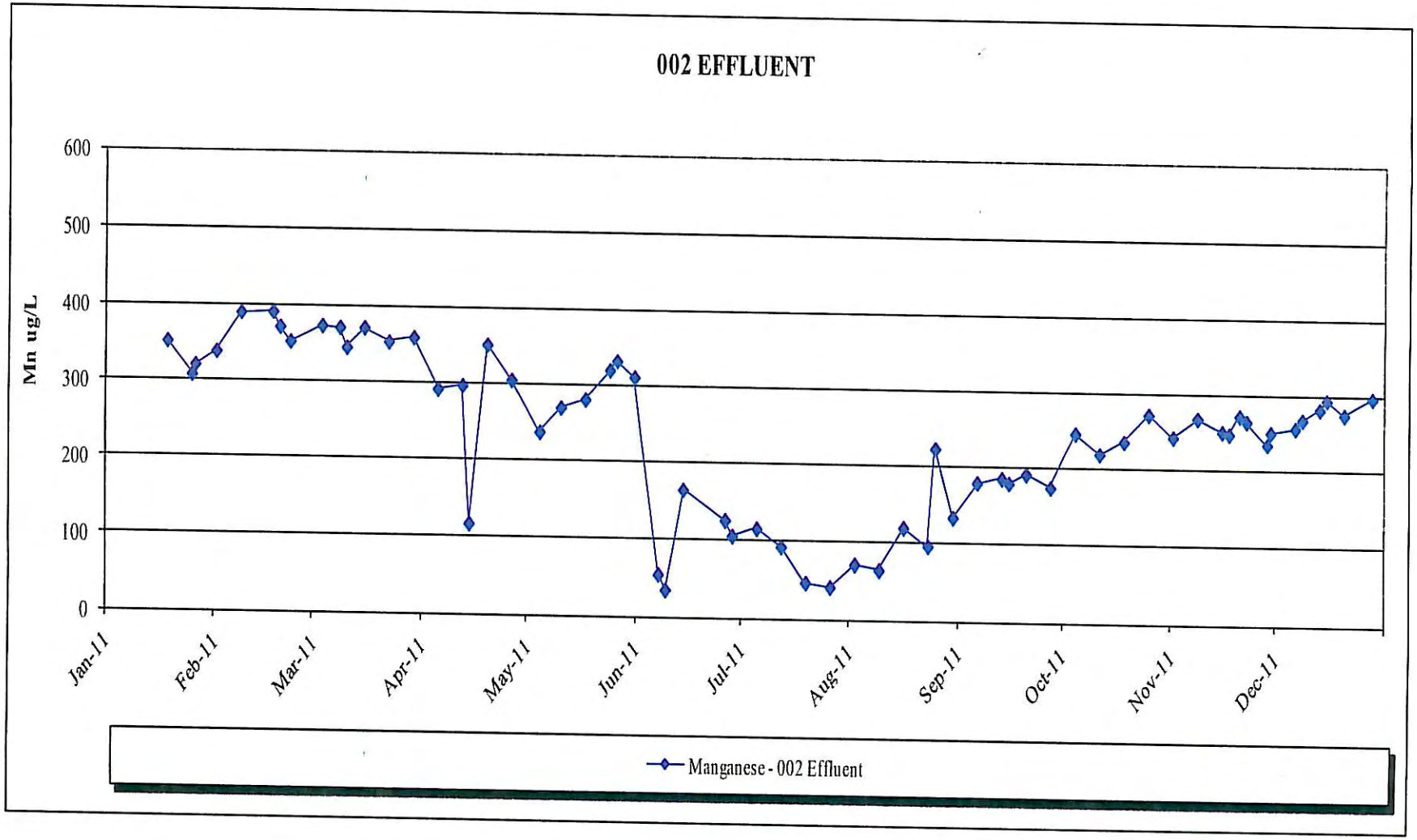

Figure 11c: Outfall 002 Effluent Monitoring Results 2011, Trace Chemistry

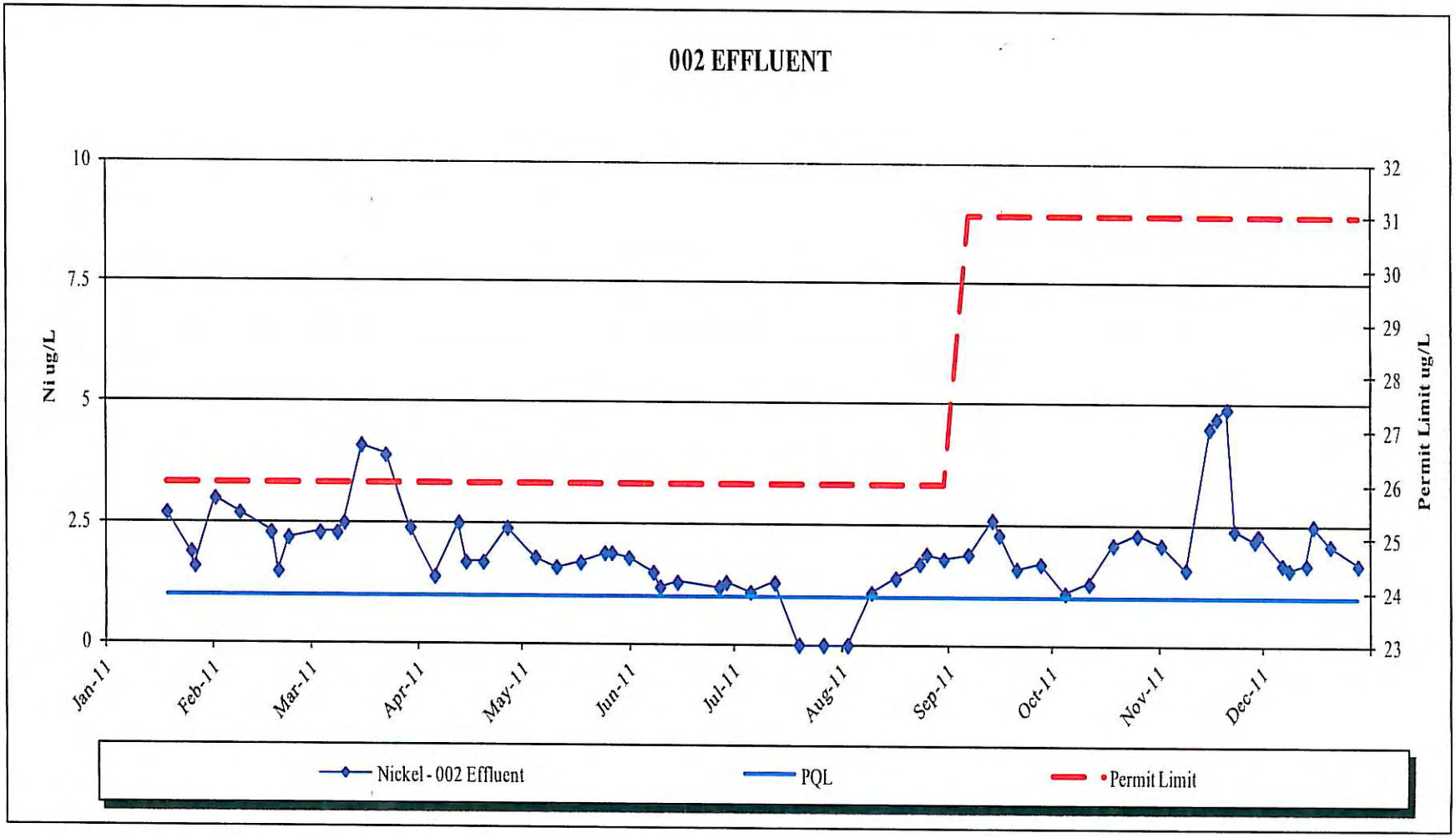

Figure 11c: Outfall 002 Effluent Monitoring Results 2011, Trace Chemistry

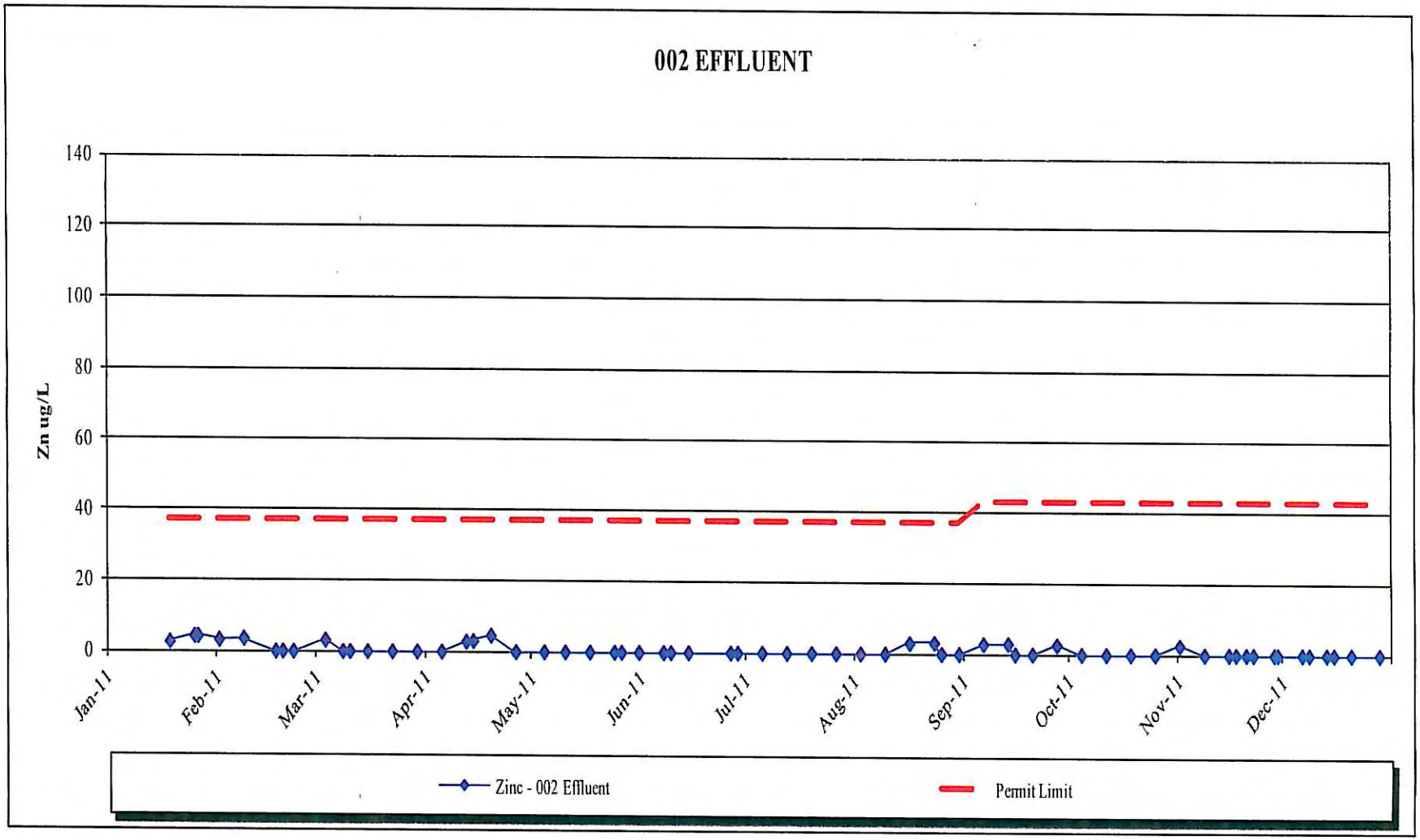

Figure 11d: Outfall 002 Effluent Monitoring Results 2011, Other Parameters

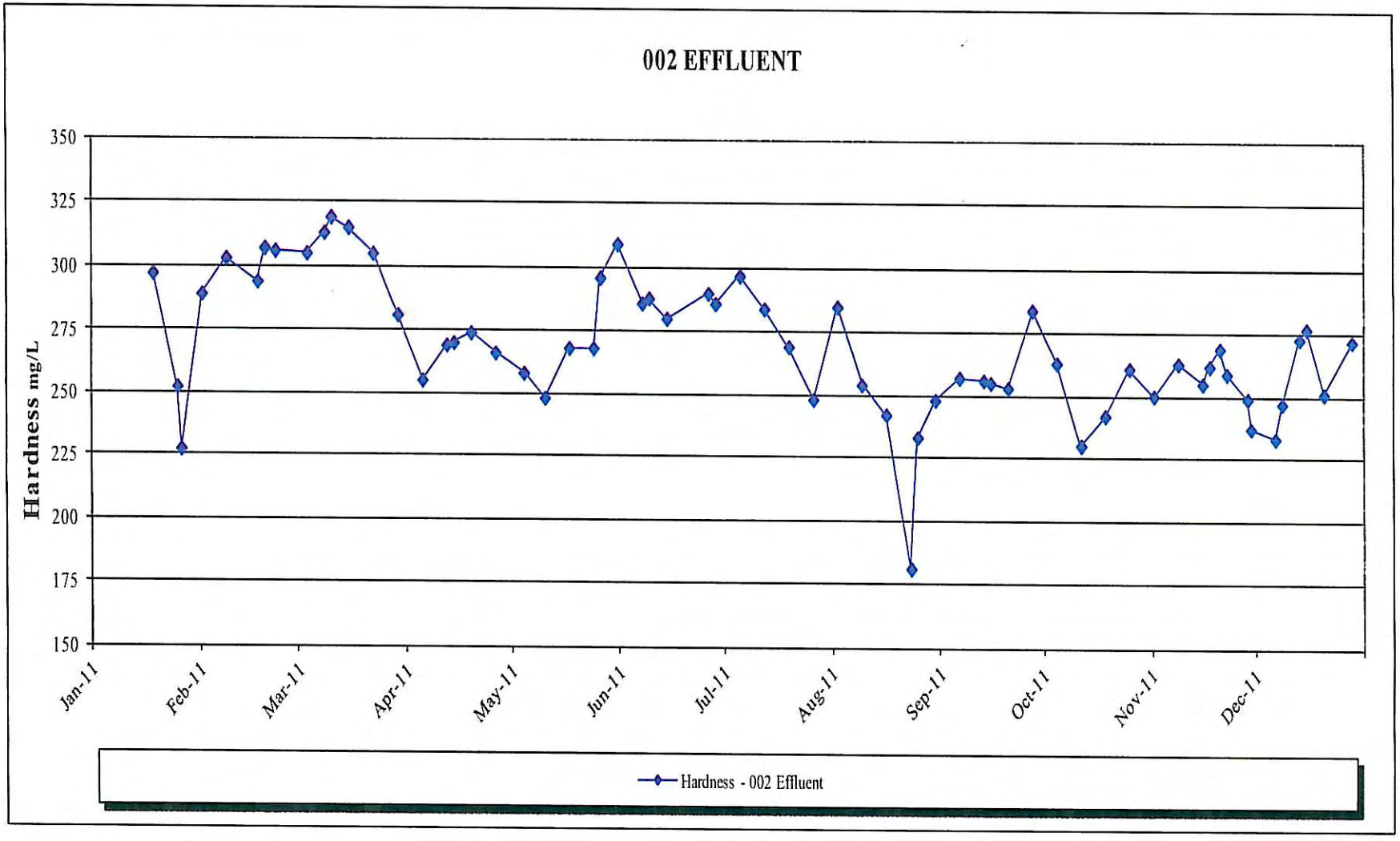
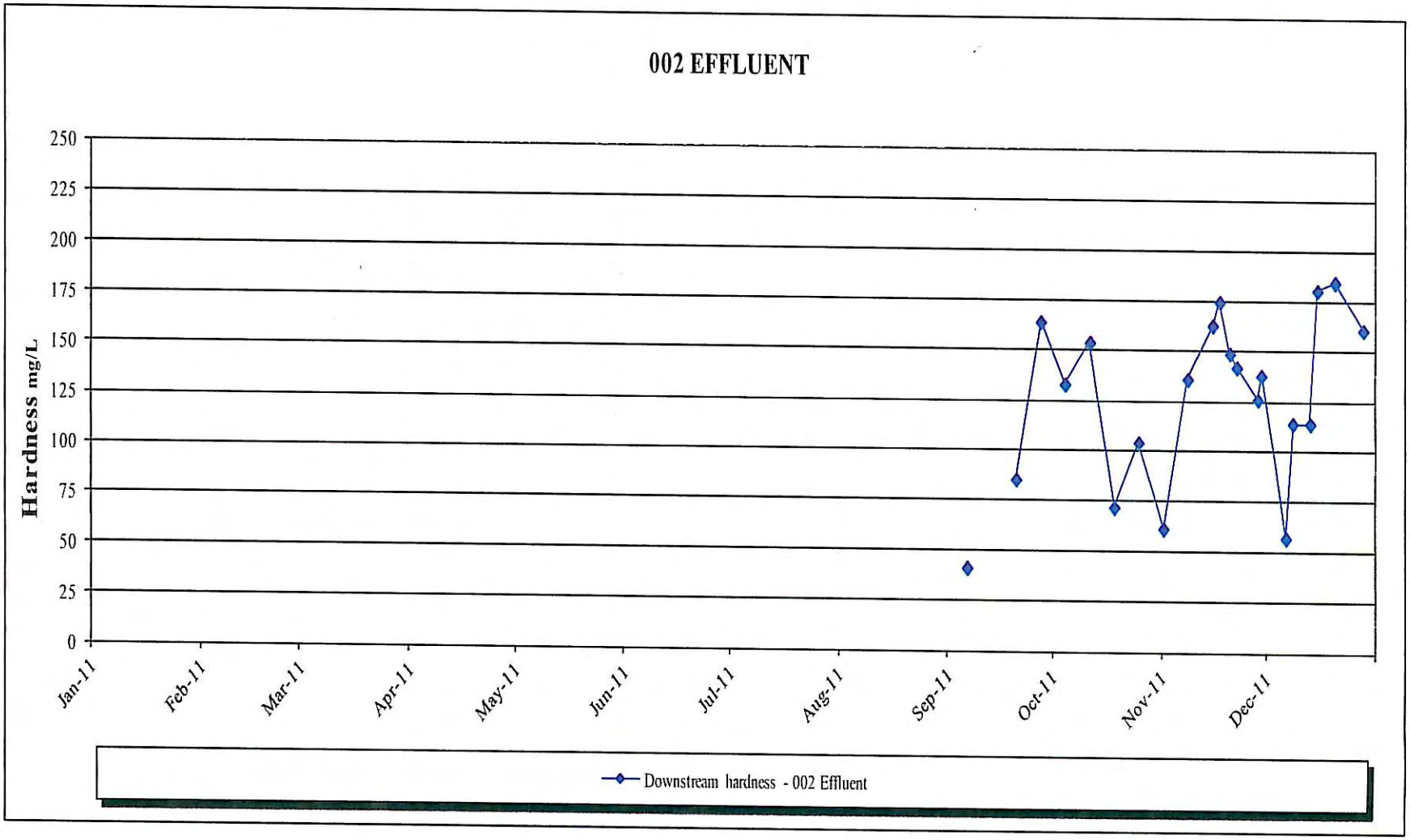
Figure 11d: Outfall 002 Effluent Monitoring Results 2011, Other Parameters