

Table 7-2: Grum Pit (V23) Water Quality 2010 - General Parameters

Station	Date	ALK	ALKPP	CaCO3	CaCO3-d	Chloride	CN(wa CNTHIC CO3		Colour	COND	CONDf	DOC	HCO3	NH3	NO2	NO2/3	NO3	OH	pH	pHF	SO4-d	TDS	TEMP-F	TOC	TSS	TURB	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TCU	µmho/cm	µmho/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C	mg/L	mg/L	NTU	
V23	3/4/2010	200.00	<0.5	602	569	<0.5	<0.5	<0.5	1030.0	950.0		250.00	0.19						<0.5	8.1	7.6	390.0	740.00	0		<1.0	
V23	6/16/2010	160.00	<0.5	511	499	<0.5	<0.5	<0.5	978.0	990.0		190.00	1.70						<0.5	8.1	8.0	350.0	740.00	13		26	
V23	9/7/2010	160.00	3	554	529	<0.5	3.20	3.20	992.0	1007.0		190.00	0.29						<0.5	8.4	7.7	420.0	720.00	12		3	
V23	12/16/2010	220.00	<0.5	773	705	1.40	<0.5	<0.5	1300.0	1190.0		270.00	0.03						<0.5	8.1	8.1	530.0	970.00	0		<4.0	
V23 Average		185.00	1	610	576	0.54	0.99	0.99	1075.0	1034.3		225.00	0.55						0	8.2	7.9	422.5	792.50	6		8	
V23 Max		220.00	3	773	705	1.40	3.20	3.20	1300.0	1190.0		270.00	1.70						<0.5	8.4	8.1	530.0	970.00	13		26	
V23 Min		160.00	<0.5	511	499	<0.5	<0.5	<0.5	978.0	950.0		190.00	0.03						<0.5	8.1	7.6	350.0	720.00	0		<1.0	
V23 N > DL		4	1	4	4	1	0	0	1	0	4	4	0	4	4	0	0	0	0	4	4	4	4	4	0	2	0
V23 Median		180.00	<0.5	578	549	<0.5	<0.5	<0.5	1011.0	998.5		220.00	0.24						<0.5	8.1	7.9	405.0	740.00	6		3	

Table 7-3: Grum Pit (V23) Water Quality 2010 - Total Metals

Station	Date	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr	
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
V23	3/4/2010	<0.005	9.20	1.590	<50.0	71.600	<0.01	<0.005	125.00	1.08	6.0600	<0.1	1.1600	36.00		3.28	0.02	70.40	196.000	2.94	12.20	99.600		1.0700	160.00	3.33	3.2300	4950.00	<0.01	777.00	<0.5	0.50	14.0000	0.30	3110.000	<0.1	
V23	6/16/2010	<0.005	53.00	2.980	<50.0	45.200	0.02	0.01	104.00	1.84	3.9600	0.50	2.1800	400.00		2.74	0.02	60.90	82.300	2.59	8.48	109.000		13.1000	156.00	3.58	1.2900	3150.00	0.02	695.00	0.90	0.57	11.5000	1.70	3830.000	0.20	
V23	9/7/2010	0.0070	28.80	1.930	<50.0	46.800	<0.01	<0.005	114.00	0.90	3.6500	0.20	1.3400	134.00		3.09	0.02	65.70	69.300	2.55	9.73	97.900	<0.002	2.6700	153.00	3.77	1.4400	2820.00	<0.01	702.00	1.10	0.86	8.5500	0.30	2010.000	<0.1	
V23	12/16/2010	<0.005	13.80	1.980	<50.0	60.700	<0.01	<0.005	160.00	1.26	5.8100	<0.1	1.7000	88.00		4.83	0.03	90.80	161.000	2.89	13.40	146.000	0.01	2.6200	212.00	4.42	1.8900	4520.00	0.03	1010.00	<0.5	0.99	14.1000	<0.2	5140.000	<0.1	
V23 Average		0.0036	26.20	2.120	25.00	56.075	0.01	0.00	125.75	1.27	4.8700	0.20	1.5950	164.50		3.49	0.03	71.95	127.150	2.74	10.95	113.125	0.00	4.8650	170.25	3.78	1.9625	3860.00	0.02	796.00	0.63	0.73	12.0375	0.60	3522.500	0.09	
V23 Max		0.0070	53.00	2.980	<50.0	71.600	0.02	0.01	160.00	1.84	6.0600	0.50	2.1800	400.00		4.83	0.03	90.80	196.000	2.94	13.40	146.000	0.01	13.1000	212.00	4.42	3.2300	4950.00	0.03	1010.00	1.10	0.99	14.1000	1.70	5140.000	0.20	
V23 Min		<0.005	9.20	1.590	<50.0	45.200	<0.01	<0.005	104.00	0.90	3.6500	<0.1	1.1600	36.00		2.74	0.02	60.90	69.300	2.55	8.48	97.900	<0.002	1.0700	153.00	3.33	1.2900	2820.00	<0.01	695.00	<0.5	0.50	8.5500	<0.2	2010.000	<0.1	
V23 N > DL		1	4	4	0	4	1	1	4	4	4	2	4	4	0	4	4	4	4	4	4	4	1	4	4	4	4	4	2	4	4	4	4	3	4	4	1
V23 Median		<0.005	21.30	1.955	<50.0	53.750	<0.01	<0.005	119.50	1.17	4.8850	0.13	1.5200	111.00		3.19	0.02	68.05	121.650	2.74	10.97	104.300	0.00	2.6450	158.00	3.68	1.6650	3835.00	0.01	739.50	0.58	0.71	12.7500	0.30	3470.000	<0.1	

Table 7-4: Grum Pit (V23) Water Quality 2010 - Dissolved Metals

Station	Date	Ag-d	Al-d	As-d	Ba-d	B-d	Be-d	Bi-d	Ca-d	Cd-d	Co-d	Cr-d	Cu-d	Fe-d	Hg-d	K-d	Li-d	Mg-d	Mn-d	Mo-d	Na-d	Ni-d	P-d	Pb-d	Sb-d	S-d	Se-d	Si-d	Sn-d	Sr-d	Ti-d	Tl-d	U-d	V-d	Zn-d	Zr-d	
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
V23	3/4/2010	<0.005	1.10	1.37	67.400	<50.0	<0.01	<0.005	121.00	1.10	5.3700	<0.1	0.9300	13.00		3.29	0.023	64.70	183.000	2.78	11.10	86.100		0.7850	3.31	145	2.7900	4500.00	<0.01	776.00	<0.5	0.51	13.6000	<0.2	2810.000	<0.1	
V23	6/16/2010	<0.005	5.20	1.02	45.300	<50.0	<0.01	<0.005	107.00	1.66	3.2500	<0.1	0.9200	12.00		2.66	0.021	56.50	65.000	2.58	8.02	100.000		1.5600	3.24	127	1.3300	2770.00	<0.01	702.00	<0.5	0.58	10.7000	1.80	3320.000	<0.1	
V23	9/7/2010	<0.005	3.00	1.54	44.400	<50.0	<0.01	<0.005	106.00	0.72	3.8200	0.20	0.8100	24.00		2.93	0.021	64.40	76.700	2.56	9.54	93.900		1.2100	3.01	157	1.4200	2470.00	<0.01	684.00	<0.5	0.82	8.2500	<0.2	1720.000	<0.1	
V23	12/16/2010	<0.005	1.70	1.59	56.300	<50.0	<0.01	0.01	137.00	1.08	5.6700	<0.1	1.4800	17.00		4.63	0.030	88.00	149.000	3.23	13.10	142.000		1.1200	4.21	206	1.8300	3790.00	0.02	955.00	<0.5	0.95	15.0000	<0.2	4960.000	<0.1	
V23 Average		0.0025	2.75	1.38	53.350	25.00	0.01	0.00	117.75	1.14	4.5275	0.09	1.0350	16.50		3.38	0.024	68.40	118.425	2.79	10.44	105.500		1.1688	3.44	159	1.8425	3382.50	0.01	779.25	0.25	0.71	11.8875	0.53	3202.500	0.05	
V23 Max		<0.005	5.20	1.59	67.400	<50.0	<0.01	0.01	137.00	1.66	5.6700	0.20	1.4800	24.00		4.63	0.030	88.00	183.000	3.23	13.10	142.000		1.5600	4.21	206	2.7900	4500.00	0.02	955.00	<0.5	0.95	15.0000	1.80	4960.000	<0.1	
V23 Min		<0.005	1.10	1.02	44.400	<50.0	<0.01	<0.005	106.00	0.72	3.2500	<0.1	0.8100	12.00		2.66	0.021	56.50	65.000	2.56	8.02	86.100		0.7850	3.01	127	1.3300	2470.00	<0.01	684.00	<0.5	0.51	8.2500	<0.2	1720.000	<0.1	
V23 N > DL		0	4	4	4	0	0	1	4	4	4	1	4	4	0	4	4	4	4	4	4	4	0	4	4	4	4	4	1	4	0	4	4	1	4	4	0
V23 Median		<0.005	2.35	1.46	50.800	<50.0	<0.01	<0.005	114.00	1.09	4.5950	<0.1	0.9250	15.00		3.11	0.022	64.55	112.850	2.68	10.32	96.950		1.1650	3.28	151	1.6250	3280.00	<0.01	739.00	<0.5	0.70	12.1500	<0.2	3065.000	<0.1	

NB: Metals reported in mg/L are shaded in grey.