

CURRAGH RESOURCES

Sample Period

February 1987 ✓ ✓

WATER ANALYSIS - MONTHLY MEAN ✓

Sample Point	X1	X2 *	X3 *	X4	X5	X6 *	X7 *	X9	X10 *	X11	X12	X13	X14 *	X22	X23
pH		7.20	7.25	8.30	7.93	7.12	7.36	9.46	8.06	7.52	7.63	7.47	7.60	7.09	6.90
Temp °C		1	2	2	2	2	1	12	3	3	3	3	1	1	3
Suspended Solids mg/L		2	<1	4	1	40	102	160,500	<1	2	1	2	1	21	3
Flows m3/min	0							30.28		0.82	0.33	5.94		3.64	
Ammonia mg/L		0.20	<0.01	0.60	0.42	0.58	0.50	0.76	0.24	0.60	0.14	0.21	<0.01	2.65	2.10
Copper mg/L		<0.01	<0.01	0.02	0.03	<0.01	0.01	0.11	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01
Lead mg/L		<0.01	<0.01	0.06	0.04	<0.01	0.22	0.11	<0.01	<0.01	<0.01	<0.01	0.02	0.06	0.02
Zinc mg/L		0.07	0.71	0.09	0.09	0.21	17.0	0.05	0.02	<0.01	<0.01	0.01	0.07	17.2	19.4
Cyanide mg/L		<0.01	<0.01	0.01	0.01	<0.01	<0.01	0.02	<0.01	0.05	<0.01	0.03	<0.01	<0.01	0.01
Manganese mg/L		0.13	0.54	0.82	1.09	10.4	7.41	0.03	<0.01	3.43	0.66	3.05	19.1	1.76	6.00
Sodium mg/L		3.3	2.1	78.8	71.0	61.0	24.0	165.5	1.8	62.1	39.4	59.0	57.0	14.2	22.8
Sulfate mg/L		15	33	934	731	273	1060	653	19	535	385	493	549	381	836
* sampled once monthly															

RESOURCES

WATER ANALYSIS - MONTHLY MEAN

Sample Period July 1987

Sample Point	X1	X2	X3	X4	X5	X6	X7	X9	X10	X11	X12	X13	X14	X22	X23
pH	7.27	7.83	7.93	8.10	8.12		6.99	9.75	8.21	7.86	8.08	7.96	8.00	7.36	7.50
Temp °C	12	7	10	15	13		2	18	9	4	3	3	10	8	5
Suspended Solids mg/L	89	4	2	4	1		266	183,000	<1	4	1	2	1	19	2
Flows m3/min								20.44		1.12	0.65	7.23		4.30	
Ammonia mg/L	2.85	0.40	0.25	1.17	1.07		1.63	1.08	0.31	0.79	0.33	0.51	0.50	2.64	0.78
Copper mg/L	0.03	<0.01	<0.01	0.01	0.01		<0.01	0.39	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Lead mg/L	0.34	0.04	0.02	0.31	0.16		0.23	0.11	0.02	0.02	0.02	0.02	0.06	0.11	0.03
Zinc mg/L	24.70	0.03	<0.01	0.22	0.14		27.95	0.05	0.02	0.02	<0.01	0.02	0.06	17.41	28.2
Cyanide mg/L	0.07	<0.01	<0.01	0.04	0.01		0.02	0.18	<0.01		<0.01		0.03	0.01	<0.01
Manganese mg/L	5.19	0.03	0.01	1.29	1.21		4.98	0.01	0.02	4.05	0.93	3.61	0.62	1.19	11.63
Sodium mg/L	53.8	1.7	1.2	95.8	85.3		20.5	155.7	1.5	78.5	36.3	65.6	25.0	18.7	36.2
Sulfate mg/L	767	8	6	338	359		783	177	6	581	282	542	123	329	1425

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CURRAGH RESOURCES

WATER ANALYSIS - MONTHLY MEAN

Sample Period *November 1987*

Sample Point	X1	X2	X3	X4	X5	X6	X7	X9	X10	X11	X12	X13	X14	X22	X23
pH	6.68	7.39	7.78	8.01	8.26		7.20	9.26	7.62	7.47	7.53	7.48	7.85	7.13	7.30
Temp °C	1	1	1	1	2		1	10	0	5	3	4	1	2	2
Suspended Solids mg/L	2023	<1	<1	13	2		185	274,000	<1	4	<1	3	2	26	2
Flows m3/min	2.67						3.35	20.4		0.99	0.44	6.50		4.91	
Ammonia mg/L	2.58	0.14	0.16	0.90	0.97		4.16	1.29	0.30	1.06	0.32	0.69	0.50	3.34	0.91
Copper mg/L	<0.01	<0.01	<0.01	0.09	0.05		0.03	0.94	<0.01	<0.01	<0.01	<0.01	0.02	0.01	<0.01
Lead mg/L	0.02	<0.01	<0.01	0.19	0.15		<0.01	0.06	<0.01	<0.01	<0.01	<0.01	0.05	0.07	<0.01
Zinc mg/L	59.73	0.05	0.02	0.21	0.24		65.80	<0.01	0.03	0.01	<0.01	<0.01	0.12	25.88	22.92
Cyanide mg/L	0.17	<0.01	<0.01	0.10	0.06		0.01	0.47	<0.01		<0.01		0.04	0.02	<0.01
Manganese mg/L	7.53	0.07	0.03	1.42	1.39		5.25	<0.01	0.02	4.08	1.06	0.65	1.06	1.21	13.00
Sodium mg/L	27.0	2.6	2.3	89.3	98.0		21.0	118.0	2.3	81.5	40.4	73.0	49.0	14.7	41.5
Sulfate mg/L	1033	15	17	374	383		864	274	16	478	238	486	229	328	1448

* sampled once monthly

CURRAGH RESOURCES

Sample Period October 1986

WATER ANALYSIS - MONTHLY MEAN

Sample Point	X1	X2 *	X3 *	X4	X5	X6 *	X7 *	X9	X10 *	X11	X12	X13	X14 *	X22	X23
pH	7.3	7.7	7.7	8.2	8.0	7.0	7.5	10.1	7.92	7.5	7.5	7.4	7.85	7.3	7.1
Temp °C															
Suspended Solids mg/L	1750			5	<1			185,000		0	1	1		18	4
Flows m3/min										0.87	0.81	6.71			
Ammonia mg/L															
Copper mg/L	0.04	<0.01	<0.01	0.04	0.08	<0.01	0.02	0.13	<0.01	0.01	0.01	0	0.03	0.02	0.01
Lead mg/L	0.57	0.01	0.06	0.11	0.11	0.03	0.08	170	0.03	0.02	0.03	0.01	0.09	0.13	0.03
Zinc mg/L	33.1	0.11	0.03	0.19	0.35	0.18	27.5	3.86	0.05	0.02	0.02	0.03	0.16	37.4	31.6
Cyanide mg/L															
Manganese mg/L	0.03	0.07	0.03	1.58	2.33	7.01	4.0		0.04	1.60	0.35	1.93	0.80	3.08	12.7
Sodium mg/L	145.0	2.0	1.6	70.0	78.5	69.5	26.2		1.7	60.5	28.0	52.0	24.0	24.5	42.0
Sulfate mg/L	849	8	11	506	471	196	728	214	14	375	200	345	135	656	1553
* sampled once monthly															

CURRAGH RESOURCES

Sample Period

November 1986 ✓ ✓

WATER ANALYSIS - MONTHLY MEAN ✓ ✓ ✓

Sample Point	X1	X2 *	X3 *	X4	X5	X6 *	X7 *	X9	X10 *	X11	X12	X13	X14 *	X22	X23
pH	6.71	7.35	7.56	8.34	8.00	7.17	7.34	10.87	8.11	7.49	7.64	7.55	7.71	6.79	7.39
Temp °C															
Suspended Solids mg/L	570	<1	<1	1	1	26	470	184,250	<1	0	0	1	2	24	4
Flows m3/min															
Ammonia mg/L					0										
Copper mg/L	0.04	<0.01	<0.01	0.07	0.07	<0.01	0.03	0.04	<0.01	0	0	0	0.02	0.01	0.01
Lead mg/L	0.06	<0.01	<0.01	0.05	0.08	<0.01	0.76	6.10	<0.01	0.01	0	0	0.03	0.01	0.01
Zinc mg/L	58.7	0.11	0.04	0.04	0.19	0.02	50.0	0.84	0.05	0.01	0.01	0.02	0.12	53.9	35.8
Cyanide mg/L					0			0.06							
Manganese mg/L															
Sodium mg/L															
Sulfate mg/L	925	9	10	551	727 ⁵⁴¹	192	697	471	12	409	231	354	277	883	1615
* sampled once monthly															

