

NINE MILE LAKE  
PATTERN 1  
P-1A

	PATTERN* BASELINE RANGE	PATTERN* BASELINE MEAN	NGL 2/24/82	CDM 2/24/82	NGL 3/8/82	NGL 4/7/82	NGL 5/4/82	NGL 6/2/82	NGL 7/4/82	NGL 8/11/82	NML 9/1
pH	6.6-7.1	6.9	6.3	6.9	6.4	6.4	6.3	6.4	6.5	6.5	6.5
Conductivity	2860-3650	3162	10300	14000	10500	11000	11000	10900	11200	11250	105
<u>Major Constituents</u>											
Bicarbonate	271-370	316	354	210	360	362	362	375	375	390	406
Carbonate	0-0	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	222-303	259	290	223	295	297	297	307	307	320	333
Calcium	71-104	87	397	340	422	337	350	387	399	319	341
Chloride	1.8-4.9	3.3	113	99	101	124	145	137	123	146	133
Magnesium	46-63	50	179	161	189	146	190	176	224	195	166
Potassium	7.0-16.2	12.8	16.2	12	19.2	17.0	18.7	15.8	16.8	16.3	18.
Sodium	560-772	620	2459	2300	2674	2474	2268	2680	2809	2703	275
Sulfate	1100-1450	1240	6184	6190	6208	6589	5771	6790	7305	6944	639
TDS	2225-2780	2483	10020	9150	10180	10520	10880	10600	10480	10570	100
Anion/Cation			97	96	105	97	101	100	100	98	102
<u>Minor Constituents</u>											
Ammonia as N	0.02-0.42	0.22	---	<0.2							
Nitrate as N	0.04-0.48	0.14	---	<0.05							
Nitrite as N	0.01-0.58	0.12	---	<0.05							
Aluminum	<0.1	<0.1	0.09	<0.5							
Arsenic	<0.01	<0.01	---	<0.005			0.013			0.006	
Cadmium	0.01-0.04	0.02	0.01	0.011							
Chromium	<0.01	<0.01	---	0.02							
Copper	ND-0.03	0.015	0.06	0.116							
Fluoride	0.53-0.61	0.58	0.36	0.1							
Iron	ND-1.42	0.68	1.63	1.3	0.79	1.59	0.78	0.84	1.25	1.20	1.6
Lead	ND-0.1	0.1	0.14	<0.005							
Mercury	ND-0.037	0.007	---	<0.0001							
Molybdenum	<0.1	<0.1	<0.06	0.005							
Selenium	ND-0.07	0.022	---	0.013			<0.005			0.010	
Vanadium	ND-0.1	0.1	0.17	0.139	0.16	0.117	0.04	0.08	0.04	0.18	0.1
Zinc	0.05-0.56	0.19	0.07	0.054							
Silicon (SiO <sub>2</sub> )	7.7-9.6	8.4	8.0	6							
<u>Radiochemistry</u>											
Uranium as U <sub>3</sub> O <sub>8</sub>	0.002-2.00	0.384	0.695	0.542	0.730	0.664	0.700	0.759	0.740	0.701	0.8
Radium-226	0.6-92	37	592	510	500		390				
Thorium-230	ND-2.3	0.7	1.5	1.9							

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm), pH (standard units) and radionuclides (pCi/l).

\*Pattern Baseline sampling contracted to D'Appolonia; one round of samples bailed. Range represents variability among all wells.

42/A32

NINE MILE LAKE  
PATTERN 1  
I-2

	PATTERN* BASELINE RANGE	PATTERN* BASELINE MEAN	PATTERN 1									
			NGL 2/24/82	CDM 2/24/82	NGL 3/8/82	NGL 4/7/82	NGL 5/4/82	NGL 6/2/82	NGL 7/1/82	NML 8/3/82	NML 9/7/82	
pH	6.6-7.1	6.9	6.7	6.7	6.4	6.6	6.3	6.3	6.3	6.3	6.3	6.4
Conductivity	2860-3650	3162	8500	12000	8500	9000	9600	9750	10,000	10250	10250	
<u>Major Constituents</u>												
Bicarbonate	271-370	316	203	230	302	309	295	297	293	319	316	
Carbonate	0-0	0	0	0	0	0	0	0	0	0	0	
Alkalinity as CaCO <sub>3</sub>	222-303	259	166	190	248	253	242	243	240	261	259	
Calcium	71-104	87	232	310	301	325	333	360	327	314	321	
Chloride	1.8-4.9	3.3	99	103	85	111	128	122	107	126	125	
Magnesium	46-63	50	151	154	130	141	160	148	189	143	150	
Potassium	7.0-16.2	12.8	14.4	11	15.2	15.8	17.5	15.0	15.8	15.6	6.9	
Sodium	560-772	620	1961	2000	2082	3002	1924	2152	2745	2399	2401	
Sulfate	1100-1450	1240	4954	5020	5242	6023	5077	5822	6183	5886	5525	
TDS	2225-2780	2483	8320	7570	8500	9200	7785	8765	9300	9050	8700	
Anion/Cation			100	104	100	104	100	98	105	100	104	
<u>Minor Constituents</u>												
Ammonia as N	0.02-0.42	0.22	---	< 0.2								
Nitrate as N	0.04-0.48	0.14	---	< 0.05								
Nitrite as N	0.01-0.58	0.12	---	< 0.05								
Aluminum	< 0.1	< 0.1	0.05	< 0.5								
Arsenic	< 0.01	< 0.01	---	< 0.005								
Cadmium	0.01-0.04	0.02	0.01	0.010			0.014			< 0.005		
Chromium	< 0.01	< 0.01	---	0.03								
Copper	ND-0.03	0.015	0.05	0.015								
Fluoride	0.53-0.61	0.58	0.30	< 0.1								
Iron	ND-1.42	0.68	0.09	0.52								
Lead	ND-0.1	0.1	0.13	< 0.003	0.40	1.16	1.04	0.80	0.82	0.76	1.11	
Mercury	ND-0.037	0.007	---	< 0.001								
Molybdenum	< 0.1	< 0.1	0.11	< 0.003								
Selenium	ND-0.89	0.088	---	8.887								
Vanadium	ND-0.1	0.1	0.13	0.104	0.04	0.039	8.000 0.01	< 0.01	0.22	8.887 1.55	0.01	
Zinc	0.05-0.56	0.19	0.04	0.061								
Silicon (SiO <sub>2</sub> )	7.7-9.6	8.4	28.9	25								
<u>Radiochemistry</u>												
Uranium as U <sub>3</sub> O <sub>8</sub>	0.002-2.00	0.384	0.229	0.248	0.136	0.151	0.174	0.152	0.130	0.132	0.142	
Radium-226	0.6-92	37	183	190	160		75					
Thorium-230	ND-2.3	0.7	0.4	0.3	0.0							

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm),  
pH (standard units) and radionuclides (pCi/l).  
\*Pattern Baseline sampling contracted to D'Appollonia; one round of samples failed.  
Range represents variability among all wells.

NINE MILE LAKE  
PATTERN I  
M-7

	PATTERN* BASELINE RANGE	PATTERN* BASELINE MEAN	MGL 2/25/82	GM 2/25/82	MGL 3/14/82	MGL 4/9/82	MGL 5/9/82	MGL 6/4/82	MGL 7/3/82	MGL 8/10/82	MGL 9/1
pH	6.6-7.1	6.9	6.8	7.1	6.7	6.8	6.8	6.9	6.6	6.7	6.8
Conductivity	2860-3650	3162	4000	4500	3900	3600	3500	3500	4200	3500	3300
<u>Major Constituents</u>											
Bicarbonate	271-370	316	359	284	360	349	369	346	337	357	354
Carbonate	0-0	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	222-303	259	294	234	295	286	302	284	276	293	290
Calcium	71-104	87	123	140	143	142	169	145	138	118	120
Chloride	1.8-4.5	3.3	50	37	35	35	48	41	46	40	40
Magnesium	46-63	50	68	73	60	62	64	65	78	54	61
Potassium	7.0-16.2	12.8	10.2	8.1	10.5	10.2	9.6	8.8	9.6	9.8	7.5
Sodium	560-772	620	755	830	782	819	672	682	851	756	711
Sulfate	1100-1450	1240	1873	2000	1935	1878	1491	1820	2150	2018	169
TDS	2225-2780	2483	3320	3130	3160	3118	3120	2940	3100	3125	281
Anion/Cation			103	104	99	102	106	97	99	94	100
<u>Minor Constituents</u>											
Ammonia as N	0.02-0.42	0.22	---	<0.2							
Nitrate as N	0.04-0.48	0.14	---	1.1							
Nitrite as N	0.01-0.58	0.12	---	<0.05							
Aluminum	<0.1	<0.1	0.08	<0.5							
Arsenic	<0.01	<0.01	---	<0.005			0.005			<0.005	
Cadmium	0.01-0.04	0.02	<0.01	<0.005							
Chromium	<0.01	<0.01	---	0.01							
Copper	ND-0.03	0.015	0.02	0.009							
Fluoride	0.33-0.61	0.58	0.42	0.1							
Iron	ND-1.42	0.68	0.09	0.08	0.20	0.06	0.04	0.31	0.03	0.04	0.01
Lead	ND-0.1	0.1	0.04	<0.003							
Mercury	ND-0.037	0.007	---	<0.0001							
Molybdenum	<0.1	<0.1	0.02	<0.005							
Selenium	ND-0.07	0.022	---	0.059			0.094			0.140	
Vanadium	ND-0.1	0.1	0.14	0.029	0.01	0.065	0.01	0.05	0.09	0.05	0.1
Zinc	0.05-0.56	0.19	0.03	0.022							
Silicon (SiO <sub>2</sub> )	7.7-9.6	8.4	8.4	8							
<u>Radiochemistry</u>											
Uranium as U <sub>3</sub> O <sub>8</sub>	0.002-2.00	0.384	0.222	0.224	0.133	0.186	0.169	0.162	0.168	0.152	0.1
Radium-226	0.6-92	37	---	8.0			7.9				
Thorium-230	ND-2.3	0.7	---	0.2							

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm),  
pH (standard units) and radionuclides (pCi/l).

\*Pattern Baseline sampling contracted to D'Appolonia; one round of samples failed.  
Range represents variability among all wells.

42/411

20848

NINE MILE LAKE  
PATTERN 1  
N-8A

	BASELINE RANGE	NOEL 2/25/82	COM 2/25/82	NOEL 3/9/82	NOEL 4/9/82	NOEL 5/5/82	NOEL 6/3/82	NOEL 7/3/82	NML 8/3/82	NML 9/8/82
pH	6.8-7.2	7.2	7.3	7.0	7.1	6.8	6.5	6.8	6.9	6.2
Conductivity	2800-3100	3100	3400	3000	2800	2600	2750	2700	2600	2600
<u>Major Constituents</u>										
Bicarbonate	193-309	336	257	343	340	341	326	334	336	342
Carbonate	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	160-253	275	212	281	279	280	267	273	275	280
Calcium	86-116	126	120	123	109	133	113	105	87	99
Chloride	26-33	42	31	32	34	44	32	34	32	35
Magnesium	40-56	48	53	53	49	48	52	56	50	50
Potassium	6.3-10.0	10.3	8.3	10.3	9.4	9.0	8.2	8.6	9.2	11.6
Sodium	504-576	549	530	535	562	507	528	508	523	516
Sulfate	1210-1395	1341	1440	1320	1386	1221	1189	1279	1262	1260
TDS	1910-2400	2250	2310	2360	2340	2280	2280	2160	2130	2140
Anion/Cation		101	96	100	98	101	103	99	98	98
<u>Minor Constituents</u>										
Ammonia as N	ND-0.2	---	<0.2							
Nitrate as N	ND-0.05	---	<0.05							
Nitrite as N	ND-0.02	---	<0.05							
Aluminum	0.5-1.1	0.58	0.6			0.005			0.005	
Arsenic	ND-0.005	---	<0.005							
Barium	ND-0.2	0.19	<0.2							
Boron	0.2-0.3	---	0.4							
Cadmium	ND-0.005	<0.01	0.006							
Chromium	ND-0.01	---	0.01							
Copper	0.03-0.04	0.02	0.008							
Fluoride	ND-0.1	0.50	0.1							
Iron	0.14-1.5	1.33	0.93	0.50	0.62	0.93	0.74	0.12	1.29	1.12
Lead	ND-0.005	0.03	<0.005							
Manganese	0.09-0.11	0.12	0.131							
Mercury	0.0001-0.0002	---	<0.0001							
Molybdenum	0.008-0.010	0.02	<0.005							
Nickel	0.03-0.04	0.11	0.03							
Selenium	ND-0.005	---	<0.005							
Vanadium	0.005-0.044	0.09	0.009	0.01	0.052	0.04	0.05	0.49	0.05	0.16
Zinc	ND-0.024	0.02	0.017							
Silicon as SiO <sub>2</sub>			8							
<u>Radiochemistry</u>										
Uranium as U <sub>3</sub> O <sub>8</sub>	0.148-0.283	0.263	0.224	0.102	0.101	0.079	0.053	0.075	0.060	0.061
Radium-226	20-59		18			17				
Thorium-230	ND-1.3		0.8							

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm),  
pH (standard units) and radionuclides (pCi/l).

42/A20

20848

NINE MILE LAKE  
PATTERN 1  
M-9

	PATTERN* BASELINE RANGE	PATTERN* BASELINE MEAN	NDL 2/25/82	CDM 2/25/82	NDL 3/9/82	NDL 4/7/82	NDL 5/4/82	NDL 6/2/82	NDL 7/1/82	NML 8/3/82	NML 9/7/82
pH	6.6-7.1	6.9	6.7	7.2	6.7	6.7	6.5	6.6	6.6	6.6	6.6
Conductivity	2860-3650	3162	2700	3200	2600	2400	2600	2800	3000	3250	3000
<u>Major Constituents</u>											
Bicarbonate	270-370	316	262	210	268	255	241	236	238	243	241
Carbonate	0-0	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	222-303	259	215	171	220	209	198	193	195	199	198
Calcium	71-104	87	65	73	67	61	74	85	81	82	90
Chloride	1.8-4.9	3.3	33	31	32	35	43	36	37	26	41
Magnesium	46-63	50	50	44	38	39	40	42	35	46	52
Potassium	7.0-16.2	12.8	9.1	7.2	9.4	8.8	8.6	8.3	9.1	9.6	10.8
Sodium	560-772	620	516	490	524	547	532	563	559	670	666
Sulfate	1100-1450	1240	1148	1200	1147	1197	1229	1370	1517	1508	1665
TDS	2225-2780	2483	1960	1970	2040	2080	2050	2220	2240	2460	2650
Anion/Cation			97	98	101	98	99	98	95	102	98
<u>Minor Constituents</u>											
Ammonia as N	0.02-0.42	0.22	---	<0.2							
Nitrate as N	0.04-0.48	0.14	---	<0.05							
Nitrite as N	0.01-0.58	0.12	---	<0.05							
Aluminum	<0.1	<0.1	0.06	<0.5						0.005	
Arsenic	<0.01	<0.01	---	<0.005			<0.005				
Cadmium	0.01-0.04	0.02	<0.01	0.005							
Chromium	<0.01	<0.01	---	0.01							
Copper	ND-0.03	0.015	0.02	0.007							
Fluoride	0.53-0.61	0.58	0.52	0.2							
Iron	ND-1.42	0.68	0.39	2.8	0.03	0.24	0.08	0.10	0.99	0.08	0.09
Lead	ND-0.1	0.1	0.03	0.014							
Mercury	ND-0.037	0.007	---	<0.0001							
Molybdenum	<0.1	<0.1	0.01	<0.005							
Selenium	ND-0.07	0.022	---	0.046			0.075			0.071	
Vanadium	ND-0.1	0.1	0.23	0.085	0.23	0.104	0.18	0.25	0.30	0.52	0.38
Zinc	0.05-0.56	0.19	0.02	0.020							
Silicon (SiO <sub>2</sub> )	7.7-9.6	8.4	7.6	8							
<u>Radiochemistry</u>											
Uranium as U <sub>3</sub> O <sub>8</sub>	0.002-2.00	0.384	0.225	0.189	0.284	0.175	0.127	0.142	0.157	0.161	0.132
Radium-226	0.6-92	37	---	58			36				
Thorium-230	ND-2.3	0.7	---	0.6							

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm), pH (standard units) and radionuclides (pCi/l).  
\*Pattern Baseline sampling contracted to D'Appolonia; one round of samples bailed.  
Range represents variability among wells.

42/A30

20848

PATTERN BASELINE RANGE	PATTERN BASELINE MEAN	(BLIND SPLIT)		CDM	MHL 3/8/82	MHL 4/5/82	MHL 5/9/82	MHL 6/2/82	MHL 7/4/82	MHL 8/11/82	MHL 9/11/82
		MHL 2/2/82	MHL 2/2/82								
6.4-5.9 1950-4000	6.7 3339	5.7 3750	5.7 3750	6.6 3210	6.0 3400	6.0 3400	6.0 3500	5.9 3400	5.9 3500	6.1 3300	5.7 3300
236-315	257	60	60	70	121	108	129	119	114	125	116
0-0	0	0	0	0	0	0	0	0	0	0	0
210-258	228	49	49	58	99	89	106	98	93	102	95
50-160	111	119	104	110	165	124	153	134	108	117	117
9-80	46	36	39	35	41	44	56	42	39	50	44
12-129	76	43	52	62	64	59	64	66	77	55	53
7.5-30.0	14.8	11.9	11.7	8.7	15.7	11.1	10.8	10.0	10.6	10.9	18.4
520-840	674	723	667	680	715	658	500	635	669	670	663
1120-2800	1769	1824	1775	1840	1894	1761	1452	1771	2015	2887	1672
2028-3486	2852	3020	2960	2790	2840	2710	2300	2680	2850	2850	2630
	102	101	101	100	103	100	101	101	96	96	102

ND-0.48	0.08	---	---	0.2	---	---	---	---	---	---	---
ND-0.6	0.26	---	---	0.05	---	---	---	---	---	---	---
ND-0.04	0.05	---	---	0.05	---	---	---	---	---	---	---
ND-0.2	0.13	1.2	1.2	1.3	---	---	---	---	---	---	---
ND-0.01	0.01	---	---	0.034	---	---	0.008	---	---	0.109	---
ND-0.05	0.05	---	---	0.2	---	---	---	---	---	---	---
ND-1.0	0.29	---	---	0.2	---	---	---	---	---	---	---
ND-0.01	0.01	0.02	0.01	0.009	---	---	---	---	---	---	---
ND-0.014	0.006	0.03	0.04	0.01	---	---	---	---	---	---	---
ND-0.028	0.015	---	---	0.027	---	---	---	---	---	---	---
0.04-0.60	0.32	0.4	0.4	0.1	---	---	---	---	---	---	---
ND-1.11	0.42	3.33	3.33	2.0	2.05	3.10	1.80	1.56	1.86	1.77	1.62
ND-0.05	0.010	0.10	0.12	0.005	---	---	---	---	---	---	---
0.10-0.34	0.22	0.17	0.17	0.11	---	---	---	---	---	---	---
0.0001	0.0001	---	---	0.0001	---	---	---	---	---	---	---
0.01	0.004	---	---	0.005	---	---	---	---	---	---	---
Not Taken	---	0.05	0.03	0.03	---	---	---	---	---	---	---
ND-0.01	0.01	---	---	0.005	---	---	0.005	---	---	0.005	---
ND-0.05	0.05	3.4	2.9	4.0	2.94	2.119	0.85	1.35	1.35	1.33	1.14
ND-0.04	0.02	0.26	0.27	0.36	---	---	---	---	---	---	---

NINE MILE LAKE  
PATTERN 2  
1-17

	PATTERN BASELINE RANGE	PATTERN BASELINE MEAN	NML 2/10/82	CDM 2/10/82	NML 3/8/82	NML 4/8/82	NML 5/6/82	NML 6/4/82	NML 7/2/82	NML 8/5/82	NML 9/9/82
pH	6.4-6.9	6.7	6.5	7.2	6.4	6.5	6.3	6.3	6.3	6.3	6.4
Conductivity	1950-4000	3339	2700	2750	2700	2900	3000	3000	3000	3000	2800
<u>Major Constituents</u>											
Bicarbonate	256-315	257	246	195	231	234	228	230	229	211	227
Carbonate	0-0	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	210-258	228	202	161	189	192	187	189	188	173	186
Calcium	50-160	111	76	73	80	92	84	101	90	83	75
Chloride	9-80	46	23	26	33	36	46	36	36	42	39
Magnesium	12-129	76	48	48	54	61	57	57	61	48	47
Potassium	7.5-30.0	14.8	10.4	7.3	9.7	9.6	9.2	8.8	9.2	9.6	17.5
Sodium	520-840	674	511	480	551	548	600	579	572	613	595
Sulfate	1120-2800	1769	1177	1250	1369	1321	1498	1435	1510	1465	1546
TDS	2028-3486	2852	2100	1940	2220	2540	2480	2330	2420	2370	2430
Anion/Cation		102	97	104	99	102	99	101	98	100	96
<u>Minor Constituents</u>											
Ammonia as N	ND-0.48	0.08	---	<0.2							
Nitrate as N	ND-0.6	0.26	---	<0.05							
Nitrite as N	ND-0.04	0.05	---	<0.05							
Aluminum	ND-0.2	0.13	0.34	<0.5			0.009			0.018	
Arsenic	ND-0.01	0.01	---	<0.2							
Berium	ND-0.05	0.05	---	<0.2							
Boron	ND-1.0	0.29	---	0.3							
Cadmium	ND-0.01	0.01	<0.01	0.006							
Chromium	ND-0.014	0.006	---	<0.01							
Copper	ND-0.028	0.015	0.005	0.010							
Fluoride	0.04-0.60	0.32	0.55	0.1							
Iron	ND-1.11	0.42	1.17	0.74	0.85	1.73	1.44	1.52	1.69	1.56	1.5
Lead	ND-0.05	0.010	---	<0.005							
Manganese	0.10-0.34	0.22	0.13	0.12							
Mercury	<0.0001	0.0001	---	0.0002							
Molybdenum	<0.01	0.004	---	<0.005							
Nickel	Not Taken	---	0.04	0.05			<0.005			<0.005	
Selenium	<0.01	0.01	---	<0.005							
Vanadium	ND-0.05	0.05	0.79	0.48	0.18	0.234	0.05	0.05	0.20	1.20	0.1
Zinc	ND-0.04	0.02	0.05	0.052							
Silicon (SiO <sub>2</sub> )	3.0-8.0	5.7	10.8	11.0							
<u>Radiochemistry</u>											
Uranium as U <sub>3</sub> O <sub>8</sub>	0.015-0.750	0.239	0.149	0.177	0.133	0.139	0.106	0.078	0.060	0.073	0.0
Radium-226	19-717	233	250	230	325		180				
Thorium-230	ND-5.1	3.4	1.7	1.8	0.6						

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm),  
pH (standard units) and radionuclides (pCi/l).

42/A9

20848

NINE MILE LAKE  
PATTERN 2  
M-20

	PATTERN	PATTERN	NWL	COM	NWL	NWL	NWL	NWL	NWL	NWL	NWL	NWL
	BASELINE	BASELINE										
	RANGE	MEAN	2/8/82	3/8/82	3/9/82	4/8/82	5/6/82	6/3/82	7/2/82	8/5/82	9/8/82	9/8/82
pH	6.4-6.9	6.7	6.8	7.2	6.6	6.8	6.4	6.4	6.3	6.5	6.6	6.6
Conductivity	1950-4000	3339	3100	3200	3500	3600	3600	3700	3600	3600	3400	3400
<u>Major Constituents</u>												
Bicarbonate	256-315	257	279	246	304	297	290	282	279	285	300	300
Carbonate	0-0	0	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	210-258	228	229	204	249	243	238	231	229	234	246	246
Calcium	50-160	111	88	89	111	109	118	118	105	97	72	72
Chloride	9-80	46	30	29	35	35	49	39	43	44	41	41
Magnesium	12-129	76	56	61	73	72	73	79	81	67	68	68
Potassium	7.5-30.0	14.8	10.9	8.0	11.6	11.4	11.3	10.4	11.2	11.2	14.2	14.2
Sodium	520-840	674	558	570	710	748	694	700	804	729	762	762
Sulfate	1120-2800	1769	1379	1490	1857	1728	1921	1647	2042	1594	1890	1890
TDS	2028-3486	2852	2220	2330	2860	2849	3120	2710	3220	2690	3000	3000
Anion/Cation		102	102	104	98	103	96	101	99	104	97	97
<u>Minor Constituents</u>												
Ammonia as N	ND-0.48	0.08	---	<0.2								
Nitrate as N	ND-0.6	0.26	---	<0.05								
Nitrite as N	ND-0.04	0.05	---	<0.05								
Aluminum	ND-0.2	0.13	0.42	<0.5								
Arsenic	ND-0.01	0.01	---	<0.005			<0.005			<0.005		
Barium	ND-0.05	0.05	---	<0.2								
Boron	ND-1.0	0.29	---	0.3								
Cadmium	ND-0.01	0.01	<0.01	0.005								
Chromium	ND-0.014	0.006	---	0.01								
Copper	ND-0.028	0.015	0.017	0.010								
Fluoride	0.04-0.60	0.32	0.57	0.2								
Iron	ND-1.11	0.42	0.48	0.33	0.37	0.62	0.43	0.39	0.47	0.46	0.48	0.48
Lead	ND-0.05	0.010	0.07	<0.005								
Manganese	0.10-0.34	0.22	0.14	0.14								
Mercury	0.0001	0.0001	---	<0.0001								
Molybdenum	0.01	0.004	---	<0.005								
Nickel	Not Taken		0.02	0.04								
Selenium	0.01	0.01	---	<0.005			<0.005			<0.005		
Vanadium	ND-0.05	0.05	0.03	0.25	0.01	0.013	0.03	<0.01	<0.01	0.12	0.06	0.06
Zinc	ND-0.04	0.02	0.01	0.026								
Silicon (SiO <sub>2</sub> )	3.0-8.0	5.7	7.2	8.0								
<u>Radiochemistry</u>												
Uranium as U <sub>3</sub> O <sub>8</sub>	0.015-0.750	0.239	0.279	0.283	0.326	0.339	0.389	0.378	0.398	0.394	0.350	0.350
Radium-226	19-717	233	146	130			180					
Thorium-230	ND-5.1	3.4	1.4	0.6								

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm),  
pH (standard units) and radionuclides (pCi/l).

42/A14

20848

NINE MILE LAKE  
PATTERN 2  
M-21

	PATTERN BASELINE RANGE	PATTERN BASELINE MEAN	WGL 2/3/82	CDM 2/3/82	WGL 3/10/82	WGL 4/8/82	WGL 5/6/82	WGL 6/3/82	WGL 7/2/82	WGL 8/5/82	WGL 9/9
pH	6.4-6.9	6.7	6.6	7.0	6.7	6.7	6.4	6.4	6.3	6.5	6.6
Conductivity	1950-4000	3339	2750	2800	2600	2600	2700	2700	2800	2800	2600
<u>Major Constituents</u>											
Bicarbonate	256-315	257	283	239	287	281	281	271	276	279	282
Carbonate	0-0	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	210-258	228	232	198	235	230	230	222	226	229	231
Calcium	50-160	111	87	80	88	88	113	118	90	76	81
Chloride	9-80	46	29	26	32	35	46	32	32	34	27
Magnesium	12-129	76	47	51	47	57	58	54	59	52	45
Potassium	7.5-30.0	14.8	9.6	7.0	9.8	9.3	9.3	8.8	9.2	9.6	11.1
Sodium	520-840	674	564	550	524	544	533	521	543	556	564
Sulfate	1120-2800	1769	1332	1300	1263	1253	1427	1270	1492	1311	126
TDS	2028-3486	2852	2200	2060	2120	2175	2260	2140	2360	2180	214
Anion/Cation		102	101	98	99	102	97	102	95	100	101
<u>Minor Constituents</u>											
Ammonia as N	ND-0.48	0.08	---	< 0.2							
Nitrate as N	ND-0.6	0.26	---	< 0.05							
Nitrite as N	ND-0.04	0.05	---	< 0.05							
Aluminum	ND-0.2	0.13	0.52	0.6							
Arsenic	ND-0.01	0.01	---	< 0.005			0.005			0.005	
Barium	ND-0.05	0.05	---	< 0.2							
Boron	ND-1.0	0.29	---	0.4							
Cadmium	ND-0.01	0.01	0.01	< 0.005							
Chromium	ND-0.014	0.006	0.03	0.01							
Copper	ND-0.023	0.013	---	0.010							
Fluoride	0.04-0.60	0.32	0.7	0.2							
Iron	ND-1.11	0.42	0.56	0.26	0.29	0.46	0.36	0.30	0.49	0.54	0.5
Lead	ND-0.05	0.010	0.07	< 0.005							
Manganese	0.10-0.34	0.22	---	0.13							
Mercury	< 0.0001	0.0001	---	< 0.0001							
Molybdenum	< 0.01	0.004	---	< 0.005							
Nickel	Not Taken	---	0.01	0.06							
Selenium	ND-0.01	0.01	---	0.005			< 0.005			< 0.005	
Vanadium	ND-0.05	0.05	1.10	1.6	0.91	1.573	1.92	7.66	32.0	14.5	9.5
Zinc	ND-0.04	0.02	0.06	0.10							
Silicon (SiO <sub>2</sub> )	3.0-8.0	5.7	7.8	8.0							
<u>Radiochemistry</u>											
Uranium as U <sub>3</sub> O <sub>8</sub>	0.015-0.750	0.239	0.198	0.165	0.150	0.122	0.181	0.214	0.562	0.302	0.1
Radium-226	19-717	233	266	270			280				
Thorium-230	ND-5.1	3.4	12	2.3							

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm),  
pH (standard units) and radionuclides (pCi/l).  
42/A13

20848

NINE MILE LAKE  
PATTERN 2  
M-22

	PATTERN BASELINE RANGE	PATTERN BASELINE MEAN	NML 2/5/82	CDM 2/5/82	NML 3/10/82	NML 4/8/82	NML 5/6/82	NML 6/3/82	NML 7/2/82	NML 8/10/82	NML 9/5/82
pH	6.4-6.9	6.7	6.6	7.1	6.7	6.7	6.6	6.4	6.5	6.5	6.6
Conductivity	1950-4000	3339	3100	3000	3000	2900	2900	2900	3000	2800	2750
<u>Major Constituents</u>											
Bicarbonate	256-315	257	262	214	273	260	268	255	256	272	267
Carbonate	0-0	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	210-258	228	215	177	224	213	220	209	210	223	215
Calcium	50-160	111	96	95	107	101	116	118	90	81	82
Chloride	9-80	46	31	26	32	35	42	32	34	37	36
Magnesium	12-129	76	68	66	57	68	68	63	77	54	60
Potassium	7.5-30.0	14.8	10.9	8.1	11.0	10.3	10.1	9.4	9.2	10.1	12.1
Sodium	520-840	674	606	600	545	556	581	547	556	547	550
Sulfate	1120-2800	1769	1546	1500	1408	1277	1462	1394	1407	1282	1440
TDS	2028-3486	2852	2540	2310	2294	2175	2460	2290	2240	2150	2300
Anion/Cation		102	101	97	99	105	101	102	101	101	97
<u>Minor Constituents</u>											
Ammonia as N	ND-0.48	0.08	---	<0.2							
Nitrate as N	ND-0.6	0.26	---	<0.05							
Nitrite as N	ND-0.04	0.05	---	<0.05							
Aluminum	ND-0.2	0.13	0.32	<0.5							
Arsenic	ND-0.01	0.01	---	<0.005			0.005			<0.005	
Barium	ND-0.05	0.05	---	<0.2							
Boron	ND-1.0	0.29	---	0.1							
Cadmium	ND-0.01	0.01	<0.01	0.005							
Chromium	ND-0.014	0.006	---	0.01							
Copper	ND-0.028	0.015	0.017	0.013							
Fluoride	0.04-0.60	0.32	0.62	0.2							
Iron	ND-1.11	0.42	0.55	0.38	0.33	0.56	0.45	0.35	0.50	0.42	0.4
Lead	ND-0.05	0.010	0.05	<0.005							
Manganese	0.10-0.34	0.22	0.18	0.17							
Mercury	<0.0001	0.0001	---	<0.0001							
Molybdenum	<0.01	0.004	---	0.005							
Nickel	Not Taken	0.02	0.03	<0.07							
Selenium	<0.01	0.01	---	<0.005			<0.005			<0.005	
Vanadium	ND-0.05	0.05	0.17	0.20	0.01	0.013	0.05	<0.01	0.27	0.10	0.1
Zinc	ND-0.04	0.02	0.01	0.018							
Silicon (SiO <sub>2</sub> )	3.0-8.0	5.7	7.9	9.0							
<u>Radiochemistry</u>											
Uranium as U <sub>3</sub> O <sub>8</sub>	0.015-0.750	0.239	0.016	0.032	0.023	0.008	0.035	<0.001	<0.001	<0.001	0.001
Radium-226	19-717	233	372	220			210				
Thorium-230	ND-5.1	3.4	0.5	0.8							

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm),  
pH (standard units) and radionuclides (pCi/l).

42/A12

20848

NINE MILE LAKE  
PATTERN 2  
M-23

	PATTERN BASELINE RANGE	PATTERN BASELINE MEAN	NML 2/5/82	CDM 2/5/82	NML 3/10/82	NML 4/8/82	NML 5/7/82	NML 6/3/82	NML 7/3/82	NML 8/10/82
pH	6.4-6.9	6.7	6.7	7.0	6.7	6.7	6.1	6.5	6.5	6.5
Conductivity	1950-4000	3339	2700	2800	2600	2500	2900	2600	2800	2500
<u>Major Constituents</u>										
Bicarbonate	265-315	257	277	232	289	282	139	279	276	284
Carbonate	0-0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	210-258	228	227	192	237	231	114	229	226	233
Calcium	50-160	111	74	72	87	79	144	97	79	73
Chloride	9-80	46	31	25	32	35	49	32	33	33
Magnesium	12-129	76	44	48	52	48	47	53	57	41
Potassium	7.5-30.0	14.8	9.5	6.9	9.9	9.5	10.9	7.7	8.6	9.4
Sodium	520-840	674	526	460	513	517	490	514	545	511
Sulfate	1120-2800	1769	1215	1220	1210	1235	1480	1125	1375	1262
TDS	2028-3486	2852	2100	1930	2040	2063	2460	1970	2080	2010
Anion/Cation		102	101	107	101	99	97	105	98	96
<u>Minor Constituents</u>										
Ammonia as N	ND-0.48	0.08	---	<0.2						
Nitrate as N	ND-0.6	0.26	---	<0.05						
Nitrite as N	ND-0.04	0.05	---	<0.05						
Aluminum	ND-0.2	0.13	0.14	<0.5						
Arsenic	ND-0.01	0.01	---	<0.005			0.005			0.010
Barium	ND-0.05	0.05	---	<0.2						
Boron	ND-1.0	0.29	---	0.1						
Cadmium	ND-0.01	0.01	<0.01	<0.005						
Chromium	ND-0.014	0.006	---	0.01						
Copper	ND-0.028	0.015	0.005	0.013						
Fluoride	0.04-0.60	0.32	0.60	0.2						
Iron	ND-1.11	0.42	0.28	0.38	0.16	0.27	3.54	0.21	0.25	0.23
Lead	ND-0.05	0.010	0.06	0.005						
Manganese	0.10-0.34	0.22	0.11	0.17						
Mercury	<0.0001	0.0001	---	<0.0001						
Molybdenum	<0.01	0.004	---	<0.005						
Nickel	Not Taken	---	0.03	0.07						
Selenium	<0.01	0.01	---	<0.005			<0.005			<0.005
Vanadium	0.05	0.05	0.34	0.20	0.14	0.102	0.03	0.05	0.14	0.20
Zinc	0.04	0.02	0.02	0.018						
Silicon (SiO <sub>2</sub> )	3.0-8.0	5.7	8.3	9.0						
<u>Radiochemistry</u>										
Uranium as U <sub>3</sub> O <sub>8</sub>	0.015-0.750	0.239	0.224	0.271	0.253	0.250	0.055	0.223	0.192	0.192
Radium-226	19-717	233	301	220			18			
Thorium-230	ND-5.1	3.4	1.3	1.0						

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm), pH (standard units) and radionuclides (pCi/l).

42/A21

20848

WINE MILE LAKE  
PATTERN 3  
N=40

	PATTERN BASELINE RANGE	PATTERN BASELINE MEAN	NML 2/18/82	CDM 2/18/82	NML 5/8/82	NML 6/4/82	NML 7/3/82	CDM 7/3/82	NML 8/10/82	NML 9/10/82
pH	6.4-7.2	6.9	7.1	7.2	7.1	7.2	7.1	7.2	7.0	7.1
Conductivity	1375-3500	2381	2400	2800	1630	1550	1590	1700	1470	1475
<u>Major Constituents</u>										
Bicarbonate	224-426	328	255	198	207	192	182	160	178	186
Carbonate	0	0	0	0	0	0	0	0	0	0
Alkalinity as CaCO <sub>3</sub>	184-349	270	209	163	170	157	149	130	146	152
Calcium	41-135	74	77	76	48	51	40	36	31	35
Chloride	20-55	35	29	26	28	19	32	17	23	26
Magnesium	13-71	35	53	47	30	29	30	26	23	25
Potassium	5.9-16.0	10.4	7.9	5.8	5.2	4.6	4.0	4.0	4.8	6.0
Sodium	310-863	506	516	430	289	258	271	240	251	270
Sulfate	628-2826	1244	1244	1070	704	614	672	554	554	587
TDS	1380-3320	2034	1990	1770	1180	1100	1140	1060	980	1000
Anion/Cation			100	101	96	99	96		98	99
<u>Minor Constituents</u>										
Ammonia as N	0.10-0.33	0.15	---	< 0.2				< 0.2		
Nitrate as N	0.10-0.93	0.21	---	< 0.05				0.21		
Nitrite as N	0.02-0.06	0.02	---	< 0.03				< 0.03		
Aluminum	0.05-0.88	0.18	0.28	< 0.5				< 0.3		
Arsenic	0.01-0.04	0.02	---	< 0.005	0.005			< 0.005		
Barium	0.05-0.10	0.05	---	< 0.2				< 0.2		
Boron	0.05-0.49	0.20	---	< 0.2				0.2		
Cadmium	< 0.01	< 0.02	< 0.01	0.006				0.006		
Chromium	0.01-0.03	0.01	---	< 0.01				< 0.005		
Copper	0.01-0.02	< 0.01	0.014	0.011				< 0.005		
Fluoride	0.10-1.07	0.64	0.50	0.1				0.3		
Iron	0.01-4.10	1.02	0.06	3.1	0.99	0.46	0.25	0.43	0.18	0.33
Lead	0.01-0.03	0.02	0.05	0.097				< 0.005		
Manganese	0.03-0.87	0.22	0.33	0.422				0.043		
Mercury	< 0.0001	< 0.0001	---	< 0.0001				---		
Molybdenum	< 0.01	< 0.01	0.02	0.006				0.005		
Nickel	0.01-0.19	0.02	0.06	0.06				< 0.02		
Selenium	0.01-0.04	0.02	---	0.012	0.040			0.048		
Vanadium	0.01-0.45	0.18	0.04	0.072	0.04	0.03	0.01	0.098	0.29	0.08
Zinc	0.01-0.04	0.02	0.48	0.042				0.018		
Silicon (SiO <sub>2</sub> )	1.0-15.0		6.5	6						
<u>Radiochemistry</u>										
Uranium as U <sub>3</sub> O <sub>8</sub>	0.002-0.200	0.060	0.091	0.116	0.092	0.059	0.024	0.051	0.036	0.026
Radium-226	1.5-274	100	34.7	25	19			13		
Thorium-230	0.5-41.9	6	2.1	1.7				0.1		

NOTE: All units expressed in mg/l (ppm) except conductivity (umhos/cm),  
pH (standard units) and radionuclides (pCi/l).

42/E12

20848

MINE MILE LAKE  
PATTERN 3  
M-41

PATTERN BASELINE RANGE	PATTERN BASELINE MEAN	NHL 2/18/82	CDM 2/18/82	NHL 3/10/82	NHL 4/9/82	NHL 5/9/82	NHL 6/2/82	NHL 7/4/82	CDM 7/4/82	NHL 8/11/82	NHL 9/11/82
6.4-7.2 1375-3500	6.9 2381	6.9 1680	7.3 2000	7.0 1690	7.0 1630	7.0 1580	6.8 1575	6.9 1550	7.1 1800	6.8 1640	6.5 1625
224-476	328	187	146	223	206	218	194	200	170	201	188
0	0	0	0	0	0	0	0	0	0	0	0
184-349	270	153	121	183	169	179	159	150	140	149	154
41-135	74	34	40	43	36	43	42	36	32	30	34
20-55	35	20	25	21	25	29	20	26	19	26	24
13-71	35	29	25	27	21	27	25	26	21	22	19
5.9-16.0	10.4	7.8	6.1	7.7	6.9	7.2	6.0	5.4	5.7	6.7	8.1
310-863	506	292	280	321	290	286	262	288	250	293	325
628-2826	1244	670	653	700	596	667	567	648	620	641	611
1380-3320	2034	1130	1070	1100	1076	1180	1100	1130	1030	1120	1175
	98	98	98	100	99	97	100	97		97	103
0.10-0.33	0.15	---	(0.2	---	---	---	---	---	(0.2	---	---
0.10-0.93	0.21	---	0.05	---	---	---	---	---	0.10	---	---
0.02-0.06	0.02	---	(0.05	---	---	---	---	---	(0.05	---	---
0.05-0.88	0.18	0.31	0.3	---	---	---	---	---	1.1	---	---
0.01-0.04	0.02	---	(0.005	---	---	---	---	---	(0.005	---	---
0.03-0.10	0.05	---	(0.2	---	---	---	---	---	(0.2	---	---
0.03-0.49	0.20	---	0.2	---	---	---	---	---	0.2	---	---
<0.01	<0.01	<0.01	(0.01	---	---	---	---	---	(0.005	---	---
0.01-0.03	0.01	---	0.01	---	---	---	---	---	(0.005	---	---
0.01-0.02	0.005	0.005	0.011	---	---	---	---	---	(0.005	---	---
0.10-1.07	0.64	0.96	0.2	---	---	---	---	---	(0.005	---	---
0.01-4.10	1.02	0.08	0.11	3.48	1.09	4.56	0.97	0.56	1.5	1.34	0.70
0.01-0.05	0.02	0.03	(0.005	---	---	---	---	---	(0.005	---	---
0.03-0.87	0.22	0.06	0.056	---	---	---	---	---	0.063	---	---
<0.0001	<0.0001	---	(0.0001	---	---	---	---	---	0.0001	---	---
0.01-0.19	0.02	0.04	0.005	---	---	---	---	---	0.005	---	---
0.01-0.04	0.02	0.032	0.05	---	---	---	---	---	(0.02	---	---
0.01-0.45	0.18	0.21	0.134	0.62	0.169	0.040	0.14	0.32	0.032	0.09	0.43
0.01-0.04	0.02	0.03	0.027	---	---	---	---	---	0.27	---	---
1.0-15.0	6.9	6.9	6	---	---	---	---	---	0.037	---	---
0.002-0.200	0.060	0.041	0.066	0.095	0.069	0.114	0.042	0.012	0.029	0.035	0.021
1.5-274	100	34.5	30	---	---	45	---	---	28	---	---
0.5-41.9	6	0.7	0.1	---	---	---	---	---	1.5	---	---

1 unit expressed in mg/l (ppm) except conductivity (umhos/cm),  
(standard units) and radionuclides (pCi/l).

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NINE MILE LAKE  
PATTERN 3  
M-43

PATTERN BASELINE RANGE	2/18/82	CDM 2/18/82	NHL 3/8/82	4/9/82	5/5/82	6/5/82	7/4/82	CDM 7/4/82	8/11/82	9/10/82
6.4-7.2 1375-3500	6.9 1720	7.4 2000	7.0 1700	7.0 1700	6.9 1750	7.1 1775	6.9 1930	7.3 2000	7.1 1800	6.9 1800
224-426	210	177	217	214	209	211	214	190	223	218
0	0	0	0	0	0	0	0	0	0	0
184-349	172	130	178	175	171	173	175	160	183	179
41-135	37	41	29	43	47	50	43	40	68	68
20-55	20	21	21	24	29	20	28	22	27	30
13-71	35	25	16	25	27	27	30	24	19	25
5.9-16.0	7.5	5.5	5.3	6.9	6.7	6.3	4.9	6.1	6.9	8.6
310-863	297	790	232	303	332	315	332	240	304	339
628-2826	1244	653	650	636	739	623	768	710	726	661
1380-3320	2034	1120	1040	1145	1240	1190	1140	1200	1240	1275
	101	100	85	100	99	102	97	93	93	106

0.15	< 0.2	< 0.2	< 0.2	< 0.2	< 0.005	< 0.005	< 0.2	< 0.2	< 0.2	< 0.2
0.10-0.33	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
0.02	0.17	0.5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.05-0.88	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.01-0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.03-0.10	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.05-0.49	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01-0.02	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
0.01-0.03	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
0.01-0.02	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
0.10-1.07	0.84	0.3	0.75	1.05	1.21	0.58	0.79	1.1	0.51	0.41
0.01-4.10	1.02	0.25	0.75	1.05	1.21	0.58	0.79	1.1	0.51	0.41
0.01-0.05	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.03-0.87	0.22	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01-0.19	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.01-0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.01-0.45	0.18	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
0.01-0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
1.0-15.0	7.4	7	7	7	7	7	7	7	7	7

0.060	0.292	0.341	0.254	0.252	0.226	0.274	0.173	0.212	0.168	0.152
1.5-274	94	70	131	110	110	95	95	95	95	95
0.5-41.9	0.2	0.9	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5

units expressed in mg/l (ppm) except conductivity (umhos/cm),  
(standard units) and radionuclides (pCi/l).

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MINE MILE LAKE  
PATTERN 3  
1-46

PATTERN BASELINE RANGE	NHL 2/24/82	CDM 2/24/82	NHL 3/10/82	NHL 4/9/82	NHL 5/9/82	NHL 6/5/82	NHL 7/4/82	CDM 7/4/82	NML 8/11/82	NHL 9/11/82
6.4-7.2 1373-3500	7.1 1800	7.1 2200	7.0 1950	6.9 1920	6.9 1825	6.3 1775	6.8 1750	7.0 1900	6.8 1750	6.5 1700
274-426	207	162	218	284	199	188	180	160	183	169
0	0	0	0	0	0	0	0	0	0	0
184-349	170	134	179	167	163	154	148	130	150	139
41-135	46	51	67	54	57	54	43	41	37	41
20-55	26	18	26	27	31	20	21	21	26	23
13-71	35	30	33	39	32	28	32	25	23	23
5.9-16.0	6.0	4.4	7.2	6.9	6.4	5.9	6.2	5.5	6.5	11.6
310-863	297	300	372	345	336	290	297	270	305	288
628-2826	710	719	845	777	758	678	754	700	621	654
1380-3320	1222	1170	1420	1340	1320	1170	1240	1190	1200	1150
	106	100	101	100	101	100	96		100	99
0.10-0.33	0.15	0.2	0.15	0.11	0.05	0.05	0.15	0.2	0.05	0.05
0.10-0.93	0.21	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.02-0.06	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.05-0.88	0.18	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
0.01-0.04	0.02	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
0.05-0.10	0.05	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.05-0.49	0.20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01-0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01-0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.10-1.07	0.54	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.01-1.10	2.55	2.1	1.55	2.25	1.22	0.92	0.74	0.84	0.73	0.40
0.01-0.05	0.02	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
0.03-0.87	0.22	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120
0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01-0.19	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.01-0.04	0.02	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
0.01-0.45	0.18	0.37	0.31	0.13	0.16	0.13	0.21	0.21	0.46	0.26
0.01-0.04	0.02	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
1.0-15.0	11.5	12	0.31	0.13	0.16	0.13	0.21	0.21	0.46	0.26
0.002-0.200	0.049	0.058	0.228	0.040	0.017	0.006	0.001	0.002	0.001	0.006
1.3-274	311	320	0.006	0.001	0.017	0.006	0.001	0.002	0.001	0.006
0.5-41.9	86.3	120	0.006	0.001	0.017	0.006	0.001	0.002	0.001	0.006
	6	6	0.006	0.001	0.017	0.006	0.001	0.002	0.001	0.006

units expressed in mg/l (ppm) except conductivity (umhos/cm) and radionuclides (pCi/l).

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MINE MILE LAKE  
PATTERN 3  
PRODUCTION WELL 53

PATTERN BASELINE RANGE	PATTERN BASELINE MQL	PRE-FENCE POST-FENCE 08/27/81 12/15/81	MQL 1975	MQL 5.4	6.0 1450	(6.0) (1450)	7.4 1800	CM 02/02/82	POST-SWEEP POST-SWEEP 02/02/82	MQL 02/02/82	MQL 03/09/82	MQL 04/15/82	MQL 05/06/82	MQL 06/03/82	MQL 7/4/82	MQL 7/4/82	MQL 8/11/82	MQL 9/10/82
6.4-7.2 1375-3500	6.9 2381	5.1 2200	5.4 1975	6.0 1450	(6.0) (1450)	7.4 1800	5.8 1625	5.7 1575	5.6 1550	5.6 1590	5.7 1730	6.0 1700	5.7 1630	5.7 1540				
224-426	328	2.2	Trace	51	(31)	36	37	37	34	30	35	35	55	56				
0	0	0	0	0	(0)	0	0	0	0	0	0	0	0	0				
184-349	270	27	Trace	42	(42)	30	48	48	44	41	29	45	45	46				
41-133	74	82	45	24	(27)	24	25	26	26	32	24	26	26	24				
20-55	35	33	31	16	(18)	20	21	21	31	20	20	23	26	22				
13-71	35	51	19	31	(20)	20	16	16	18	19	16	17	17	15				
5.9-16.0	10.4	11.4	7.3	6.7	(6.6)	5.0	6.3	6.8	6.0	5.7	5.3	5.9	6.3	7.6				
310-863	506	486	395	288	(318)	290	283	278	278	272	291	300	295	290				
628-2826	1244	1371	507	694	(707)	662	644	694	728	616	710	766	671	724				
1380-3320	2034	2260	1400	1140	(1100)	1010	1000	1090	1160	990	1100	1160	1100	1110				
				101	96	99	100	98	94	103	96	96	100	96				

CONDUCTIVITY

PATTERN BASELINE RANGE	PATTERN BASELINE MQL	PRE-FENCE POST-FENCE 08/27/81 12/15/81	MQL 1975	MQL 5.4	6.0 1450	(6.0) (1450)	7.4 1800	CM 02/02/82	POST-SWEEP POST-SWEEP 02/02/82	MQL 02/02/82	MQL 03/09/82	MQL 04/15/82	MQL 05/06/82	MQL 06/03/82	MQL 7/4/82	MQL 7/4/82	MQL 8/11/82	MQL 9/10/82
0.10-0.33	0.15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0.10-0.93	0.21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0.02-0.06	0.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0.03-0.88	0.18	3.75	---	0.35	(0.45)	0.018	---	---	0.055	---	---	---	---	---	---	---	---	
0.01-0.04	0.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0.05-0.10	0.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0.03-0.49	0.20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0.01	0.02	0.01	0.01	0.01	(0.01)	0.005	---	---	---	---	---	---	---	---	---	---	---	
0.01-0.03	0.01	0.06	0.01	0.01	(0.04)	0.01	---	---	---	---	---	---	---	---	---	---	---	
0.01-0.02	0.01	0.01	0.01	0.01	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0.10-1.07	0.64	---	---	0.30	(0.32)	0.1	---	---	---	---	---	---	---	---	---	---	---	
0.01-4.10	1.02	3.4	0.5	0.25	(0.47)	0.25	---	---	---	---	---	---	---	---	---	---	---	
0.01-0.05	0.02	0.09	---	0.05	(0.02)	0.005	---	---	---	---	---	---	---	---	---	---	---	
0.03-0.87	0.22	0.26	---	0.49	(0.53)	0.045	---	---	---	---	---	---	---	---	---	---	---	
0.0001	0.0001	---	---	---	---	0.0001	---	---	---	---	---	---	---	---	---	---	---	
0.01	0.01	0.17	---	---	---	0.005	---	---	---	---	---	---	---	---	---	---	---	
0.01-0.19	0.02	0.10	---	0.08	(0.02)	0.03	---	---	---	---	---	---	---	---	---	---	---	
0.01-0.04	0.02	---	---	---	---	0.126	---	---	---	---	---	---	---	---	---	---	---	
0.01-0.43	0.18	3.84	1.4	0.99	(1.10)	1.38	---	---	---	---	---	---	---	---	---	---	---	
0.01-0.04	0.02	0.39	---	0.08	(0.06)	0.099	---	---	---	---	---	---	---	---	---	---	---	
1.0-15.0	12.1	12.1	---	12.1	(12.1)	13	---	---	---	---	---	---	---	---	---	---	---	

PATTERN BASELINE RANGE	PATTERN BASELINE MQL	PRE-FENCE POST-FENCE 08/27/81 12/15/81	MQL 1975	MQL 5.4	6.0 1450	(6.0) (1450)	7.4 1800	CM 02/02/82	POST-SWEEP POST-SWEEP 02/02/82	MQL 02/02/82	MQL 03/09/82	MQL 04/15/82	MQL 05/06/82	MQL 06/03/82	MQL 7/4/82	MQL 7/4/82	MQL 8/11/82	MQL 9/10/82
0.002-0.200	0.060	0.295	0.1000	0.67	(0.085)	0.071	0.115	0.141	0.140	0.074	0.125	0.153	0.094	0.089				
1.3-274	100	437	449	466	---	310	613	---	710	---	---	---	---	---	---	---	---	---
0.5-41.9	6	37.4	12	2.9	---	7.2	25.7	---	---	---	---	---	---	---	---	---	---	---

Units expressed in mg/l (ppm) except conductivity (micro/cm), pH (standard units) and radionuclides (pCi/l).

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