

007312

**2002 Mineral Assessments - Proposed Pickhandle Lakes SMA
EMR Rock Sample Geochemistry**

Sample Number	Albers X	Albers Y	Sample Type	Project	Ba ppm	Cr ppm	Ga ppm	La ppm	Mn ppm	Sr ppm	V ppm	Zn ppm	Al %	Ag ppm	As ppm	Au ppb	B ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cu ppm
140305	89760.80467	851919.8336	rock	Pickhandle	41	85	2	7	103	11	9	15	0.37	0.1	0.8	2.2	2	0.05	0.3	0.05	1.9	29.9
140306	92129.88336	849667.7024	rock	Pickhandle	19	55	9	6	318	25	43	34	2.69	0.1	0.3	0.5	4	0.1	3.63	0.05	10.1	57.8
140307	92225.98835	849592.95	rock	Pickhandle	60	107	4	2	246	14	55	28	1.28	0.1	0.5	0.6	1	0.3	1.01	0.05	18.5	185.6
140308	92418.30539	849388.4093	rock	Pickhandle	7	47	10	3	936	94	69	75	3.64	0.05	29.7	2.2	4	0.1	14.13	0.2	10.9	11.8
140309	92776.49079	848996.1058	rock	Pickhandle	240	127	7	10	312	20	62	71	2.24	0.2	0.3	0.25	0.5	0.2	0.99	0.05	13	119.6
140310	92980.09623	848740.8011	rock	Pickhandle	46	112	3	9	126	6	12	18	0.35	0.05	1	1.7	1	0.1	0.52	0.1	3.8	22.9
140311	93038.29447	848693.2064	rock	Pickhandle	38	160	3	3	348	17	37	28	0.46	0.6	1.9	5.2	0.5	0.1	0.84	0.1	4.6	64.8
140312	93296.15778	848375.096	rock	Pickhandle	20	44	7	17	340	218	24	33	2	0.05	0.3	0.25	0.5	0.05	7.65	0.1	3	6.1
176462	89917.08874	851836.4021	rock	Pickhandle	78	71	11	13	609	126	110	71	2.66	0.1	1.8	1.7	2	0.1	3.49	0.2	16.5	34
176463	89868.22358	851839.0992	rock	Pickhandle	43	107	3	7	256	22	13	18	0.6	0.1	2.3	9.7	1	0.4	0.71	0.05	2.2	35.4
176464	92076.99151	849702.3078	rock	Pickhandle	14	58	3	7	157	6	1	16	0.86	0.05	1.6	1.5	0.5	0.1	0.74	0.05	0.6	8.8
176465	92297.02316	849512.3079	rock	Pickhandle	26	127	3	1	757	64	45	4033	0.82	7.9	2119.5	393.8	2	0.1	7.85	12.6	6	58.7

Sample Number	Fe %	Hg ppm	K %	Mg %	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sc ppm	Th ppm	Ti %	Tl ppm	U ppm	W ppm	Utmzone	X	Y	Datum	Date
140305	0.65	0.5	0.1	0.16	0.4	0.025	2	0.007	6.2	0.025	0.1	1.5	10.6	0.048	0.1	5.5	0.2	07V	534951	6867054	NAD83	20020910
140306	2.26	0.01	0.06	0.39	1.3	0.041	8.3	0.05	1.4	0.34	0.2	5.7	1.3	0.099	0.1	2.7	0.8	07V	537599	6865139	NAD83	20020911
140307	2.5	0.5	0.1	0.99	0.5	0.106	22.5	0.028	1.4	0.73	0.1	6.9	0.9	0.102	0.1	0.4	1.2	07V	537704	6865078	NAD83	20020911
140308	2.34	0.03	0.01	0.69	0.2	0.002	5.8	0.134	9.9	0.07	0.2	15.3	0.2	0.106	0.1	0.1	1.4	07V	537922	6864901	NAD83	20020911
140309	3.33	0.5	0.74	1.58	1.3	0.03	30.9	0.036	5.8	0.84	0.1	4	4.6	0.18	0.2	1.2	0.1	07V	538329	6864560	NAD83	20020911
140310	0.91	0.5	0.04	0.29	1.8	0.083	23.7	0.014	8.4	0.07	0.1	2.2	10.2	0.075	0.1	2.1	0.1	07V	538565	6864334	NAD83	20020911
140311	2.87	0.01	0.06	0.26	2.3	0.005	23.5	0.019	2.6	1.1	3.6	2.7	1	0.044	0.4	0.4	0.1	07V	538629	6864295	NAD83	20020911
140312	1.13	0.5	0.04	0.37	0.4	0.013	2.7	0.038	6.9	0.025	0.05	2	5.9	0.091	0.1	1	0.3	07V	538927	6864014	NAD83	20020911
176462	3.68	0.01	0.09	1.58	2.8	0.03	13.5	0.111	8.2	0.025	0.2	8.3	3.9	0.206	0.1	3.2	0.1	07V	535117	6866992	NAD83	20020910
176463	0.67	0.5	0.12	0.18	3.7	0.086	2.6	0.01	14.2	0.025	0.1	4.4	17.6	0.044	0.1	6.8	0.2	07V	535068	6866988	NAD83	20020910
176464	0.47	0.5	0.06	0.05	0.4	0.025	0.7	0.004	11	0.025	0.5	1.6	5.8	0.016	0.1	1.9	0.1	07V	537542	6865166	NAD83	20020911
176465	2.03	0.68	0.07	0.54	0.8	0.006	3.9	0.009	2505.4	0.51	2061	6.7	0.1	0.004	0.1	0.1	0.1	07V	537785	6865007	NAD83	20020911

Sample Number	Person	Quality	Description	Width	Attitude
140305	RH		Road cut: almost white granodiorite, cutting diorite (not included in sample), bounded by discontinuous quartz veinlets and qtz-feld veinlets. Tr belbs of pyrrhotite in granodio and qtz veins. Mag sus, 0.03-0.21 granodio.		
140306	RH		Sample of weakly rusty wea grey graphitic quartzite 1-2 m in FW of <1 m wide of qtz-feld dyke. Qtzite cut by weak carb veinlets. Tr diss pyrrhotite.	1.5	308/85E
140307	RH		20-25cm thick rusty wea metaseds with occasional 1-3mm pyrrhotite lamin in graphitic quartzite. Weak sil green 'skamy?' bands.	0.25	
140308	RH		thin. 5cm quartz carb vnlet with tr dis pyrrhotite cutting graphitic quartzite. Weak shear on vein contacts. Carb-cal-shl-lim on joints. Veinlet strike and dip		070/75s
140309	RH		Rusty wea bio schist. Tr dis pyrite, andalusite crystals, 5-10% qtz sweats.		
140310	RH		6in white felsic dyke with 1-2% fine gr dis pyrite and minor qtz segregations. Fractured.	0.15m	
140311	RH		Fractured qtz vein, locally rusty wea, cutting bio graph (grey) quartzite. White-grey vein qtz	0.3m	
140312	RH		sample from 25m exposure in road cut of carb alt and veined granite. 10-15% white carb - calcite. Granite has white rounded feldspar crystals, <5% bio-hbl and occassional megacrystic feld x-tal.	1.0m	
176462	JvR		chip across o/c of diorite in road cut, 0.75m shear zone with sheeted qtz/carbonate veinlets with abundant biotite/muscovite in sheared core, 9 3mm to 2cm wide carbonate veinlets bearing 197/60NW	0.75	197/60NW
176463	JvR		diorite o/c on road cut with pink potassic altered quartz veins plus chlorite blebs at vein selvages, 3/meter		
176464	JvR		sample of 0.4m wide quartz vein parallel gneissic bed bearing 121/80East, four brown gamet porphoroblasts observed with green skarn selvages [MS on rusty weathering gneissic band of 30.5, 25.8, 15.8, 20.1 - rusty blebs coul,,0.4,121/80E,		
176465	JvR		quartz vein bearing 092/85S up to 8 cm wide with granular arsenopyrite blebs concentrated along selvages, milky white and grey quartz, local open space filling, much thiner 1-2mm white pasty carbonate veinlets coat fracture,,092/85S,	8 ? Cm	

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176466	92840.29977	848925.3538	rock	Pickhandle	505	195	6	8	170	14	61	53	1.48	0.1		8	5	1	0.05	1.51	0.05	17.6	127.4
176467	93001.11199	848717.9986	rock	Pickhandle	45	219	1	1	55	4	6	10	0.19	0.05		1	0.25	1	0.05	0.09	0.05	1.2	8
176535	92174.04982	849635.2978	rock	Pickhandle	5	153	2	1	1074	102	7	1475	0.41	7.5	14758.3	2154.5	2	0.1	4.75	4.1	4.4	48.8	
176539	92853.0451	848942.8767	rock	Pickhandle	102	263	10	13	363	21	130	120	2.16	0.2	13.2		2	1	0.3	0.61	0.3	30.3	200.4
JVR001	96582.77142	845984.9642	rock	Pickhandle	218	136	3	14	304	75	33	65	0.69	0.1	2.3	2.5	7	0.1	3.09	0.2	9.7	37.4	
JVR002	96686.17038	846020.6447	rock	Pickhandle	118	9	4	13	379	126	99	45	1.05	0.3	3.3	1.5	3	0.4	7.92	0.2	20.8	108.2	
JVR003	96537.88594	845990.4366	rock	Pickhandle	259	124	2	9	192	141	165	465	0.31	0.5	68.3	0.9	2	0.2	2.53	5.8	6.4	75.3	

Sample Number	Fe %	Hg ppm	K %	Mg %	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sc ppm	Th ppm	Ti %	Tl ppm	U ppm	W ppm	Utmzone	X	Y	Datum	Date
176466	2.01	0.5	0.27	1.51	0.6	0.128	114	0.112	17.2	0.025	12.4	5.5	1.4	0.153	0.1	0.3	0.1	07V	538402	6864498	NAD83	20020911
176467	0.42	0.5	0.06	0.12	0.5	0.005	9.3	0.022	2.2	0.025	1.6	1.7	0.3	0.014	0.1	0.1	0.05	07V	538589	6864314	NAD83	20020911
176535	3.02	0.26	0.02	0.48	0.5	0.002	4.1	0.012	1579.5	1.19	1215.5	2.5	0.1	0.001	0.1	0.1	0.5	07V	537647	6865113	NAD83	20020911
176539	5.27	0.02	1.07	1.92	2	0.089	130.1	0.132	6.2	1.88	1.9	9.1	4.9	0.252	0.3	2	0.1	07V	538412	6864517	NAD83	20020911
JVR001	1.67	0.01	0.19	0.39	2.7	0.049	32.7	0.041	3.4	0.28	0.4	5.6	5.7	0.071	0.1	2	0.3	07V	542502	6862085	NAD83	20020611
JVR002	4.06	0.41	0.15	0.68	1.1	0.026	10	0.119	5	1.38	0.3	8.1	4.4	0.068	0.1	4.8	0.3	07V	542600	6862134	NAD83	20020611
JVR003	1.48	0.06	0.11	0.54	25.8	0.005	110.4	0.385	8.6	0.84	13	2.2	3.8	0.004	0.1	6.5	0.7	07V	542457	6862084	NAD83	20020611

Sample Number	Person	Quality	Description	Width	Attitude
176466	JvR		dark grey locally rusty weathering foliated biotite schist o/c in road cut; zone of sub parallel qtz stringers up to 1 cm wide trending 120/80SW with hairlike and boudinaged sweats (15 per 10cm); trace pyrite		120/80SW
176467	JvR		rusty weathering quartz sweat? In rusty weathering biotite schist road cut, pyrite veinlets in quarts and also in host		
176535	RS		Qz-asy-py+/- sphal with 5 - 10 cm rusty selvages. Aspy needle crystals. Diss py in selvages.	2 cm	067/68se
176539	RS		Foliated, rusty weathering, qz-biot meta-seds +/- chlorite. Mag sus up to 13.0 reading.	1.0 m	118/77n
JVR001	JvR		sample of sheared fault zone; local quartz and rusty veinlets in Nasina rocks (see RH notes for fault attitude)		
JVR002	RH				
JVR003	JvR		graphitic shear with brecciated quartz and minor limonite; in the HW of fault sampled in JvR02001		