

2002 Pickhandle Area Rock Geochemistry																																			
NUMBE	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	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	PERS	DESCRIPTION
140305	2	7	103	11	9	15	0.37	0.10	0.8	2.20	2.0	0.05	0.30	0.05	1.9	29.9	0.650	0.50	0.10	0.16	0.40	0.0250	2.00	0.007	6.2	0.025	0.10	1.5	10.60	0.0480	0.1	5.50	0.20	RH	"Road cut: almost white granodiorite, cutting diorite (not included in sample), bounded by discontinuous quartz veinlets and qtz-feld veinlets. Tr bels of pyrrhotite in granodio and qtz veins. Mag sus, 0.03-0.21 granodio."
140306	9	6	318	25	43	34	2.69	0.10	0.3	0.50	4.0	0.10	3.63	0.05	10.1	57.8	2.260	0.01	0.06	0.39	1.30	0.0410	8.30	0.050	1.4	0.340	0.20	5.7	1.30	0.0990	0.1	2.70	0.80	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.
140307	4	2	246	14	55	28	1.28	0.10	0.5	0.60	1.0	0.30	1.01	0.05	18.5	185.6	2.500	0.50	0.10	0.99	0.50	0.1060	22.50	0.028	1.4	0.730	0.10	6.9	0.90	0.1020	0.1	0.40	1.20	RH	20-25cm thick rusty wea metaseds with occasional 1-3mm pyrrhotite lamin in graphitic quartzite. Weak sil green 'skamy?' bands.
140308	10	3	936	94	69	75	3.64	0.05	29.7	2.20	4.0	0.10	14.13	0.20	10.9	11.8	2.340	0.03	0.01	0.69	0.20	0.0020	5.80	0.134	9.9	0.070	0.20	15.3	0.20	0.1060	0.1	0.10	1.40	RH	thin. 5cm quartz carb vnet with tr diss pyrrhotite cutting graphitic quartzite. Weak shear on vein contacts. Carb-cal-shl-lim on joints. Veinlet strike and dip
140309	7	10	312	20	62	71	2.24	0.20	0.3	0.25	0.5	0.20	0.99	0.05	13.0	119.6	3.330	0.50	0.74	1.58	1.30	0.0300	30.90	0.036	5.8	0.840	0.10	4.0	4.60	0.1800	0.2	1.20	0.10	RH	"Rusty wea bio schist. Tr dis pyrite, andalusite crystals, 5-10% qtz sweats."
140310	3	9	126	6	12	18	0.35	0.05	1.0	1.70	1.0	0.10	0.52	0.10	3.8	22.9	0.910	0.50	0.04	0.29	1.80	0.0830	23.70	0.014	8.4	0.070	0.10	2.2	10.20	0.0750	0.1	2.10	0.10	RH	6in white felsic dyke with 1-2% fine gr dis pyrite and minor qtz segregations. Fractured.
140311	3	3	348	17	37	28	0.46	0.60	1.9	5.20	0.5	0.10	0.84	0.10	4.6	64.8	2.870	0.01	0.06	0.26	2.30	0.0050	23.50	0.019	2.6	1.100	3.60	2.7	1.00	0.0440	0.4	0.40	0.10	RH	"Fractured qtz vein, locally rusty wea, cutting bio graph (grey) quartzite. White-grey vein qtz"
140312	7	17	340	218	24	33	2.00	0.05	0.3	0.25	0.5	0.05	7.65	0.10	3.0	6.1	1.130	0.50	0.04	0.37	0.40	0.0130	2.70	0.038	6.9	0.025	0.05	2.0	5.90	0.0910	0.1	1.00	0.30	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 occasional megacrystic feld x-tal."
176462	11	13	609	126	110	71	2.66	0.10	1.8	1.70	2.0	0.10	3.49	0.20	16.5	34.0	3.680	0.01	0.09	1.58	2.80	0.0300	13.50	0.111	8.2	0.025	0.20	8.3	3.90	0.2060	0.1	3.20	0.10	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"
176463	3	7	256	22	13	18	0.60	0.10	2.3	9.70	1.0	0.40	0.71	0.05	2.2	35.4	0.670	0.50	0.12	0.18	3.70	0.0860	2.60	0.010	14.2	0.025	0.10	4.4	17.60	0.0440	0.1	6.80	0.20	JvR	"diorite o/c on road cut with pink potassic altered quartz veins plus chlorite blebs at vein selvages, 3/meter"
176464	3	7	157	6	1	16	0.86	0.05	1.6	1.50	0.5	0.10	0.74	0.05	0.6	8.8	0.470	0.50	0.06	0.05	0.40	0.0250	0.70	0.004	11.0	0.025	0.50	1.6	5.80	0.0160	0.1	1.90	0.10	JvR	"sample of 0.4m wide quartz vein parallel gneissic bed bearing 121/80East, four brown garnet porphoroblasts observed with green skam selvages (MS on rusty weathering gneissic band of 30.5, 25.8, 15.8, 20.1 - rusty blebs coul"
176465	3	1	757	64	45	4033	0.82	7.90	2119.5	393.80	2.0	0.10	7.85	12.60	6.0	58.7	2.030	0.68	0.07	0.54	0.80	0.0060	3.90	0.009	2505.4	0.510	2061.00	6.7	0.10	0.0040	0.1	0.10	0.10	JvR	"quartz vein bearing 092/855 up to 8 cm wide with granular arsenopyrite blebs concentrated along selvages, milky white and grey quartz, local open space filling, much thinner 1-2mm white pasty carbonate veinlets coat fracture
176466	6	8	170	14	61	53	1.48	0.10	8.0	5.00	1.0	0.05	1.51	0.05	17.6	127.4	2.010	0.50	0.27	1.51	0.60	0.1280	114.00	0.112	17.2	0.025	12.40	5.5	1.40	0.1530	0.1	0.30	0.10	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 swe:ts (15 per 10cm); trace pyrite
176467	1	1	55	4	6	10	0.19	0.05	1.0	0.25	1.0	0.05	0.09	0.05	1.2	8.0	0.420	0.50	0.06	0.12	0.50	0.0050	9.30	0.022	2.2	0.025	1.60	1.7	0.30	0.0140	0.1	0.10	0.05	JvR	"rusty weathering quartz sweat? In rusty weathering biotite schist road cut, pyrite veinlets in quartz and also in host"
176535	2	1	1074	102	7	1475	0.41	7.50	14758.3	2154.50	2.0	0.10	4.75	4.10	4.4	48.8	3.020	0.26	0.02	0.48	0.50	0.0020	4.10	0.012	1579.5	1.190	1215.50	2.5	0.10	0.0010	0.1	0.10	0.50	RS	Qz-asp-py+- sphal with 5 - 10 cm rusty selvages. Aspy needle crystals. Diss py in selvages.
176539	10	13	363	21	130	120	2.16	0.20	13.2	2.00	1.0	0.30	0.61	0.30	30.3	200.4	5.270	0.02	1.07	1.92	2.00	0.0890	130.10	0.132	6.2	1.880	1.90	9.1	4.90	0.2520	0.3	2.00	0.10	RS	"Foliated, rusty weathering, qz-biot meta-seds +/- chlorite. Mag sus up to 13.0 reading."
JVR001	3	14	304	75	33	65	0.69	0.10	2.3	2.50	7.0	0.10	3.09	0.20	9.7	37.4	1.670	0.01	0.19	0.39	2.70	0.0490	32.70	0.041	3.4	0.280	0.40	5.6	5.70	0.0710	0.1	2.00	0.30	JvR	sample of sheared fault zone; local quartz and rusty veinlets in Nasina rocks (see RH notes for fault attitude)
JVR002	4	13	379	126	99	45	1.05	0.30	3.3	1.50	3.0	0.40	7.92	0.20	20.8	108.2	4.060	0.41	0.15	0.68	1.10	0.0260	10.00	0.119	5.0	1.380	0.30	8.1	4.40	0.0680	0.1	4.80	0.30	RH	
JVR003	2	9	192	141	165	465	0.31	0.50	68.3	0.90	2.0	0.20	2.53	5.80	6.4	75.3	1.480	0.06	0.11	0.54	25.80	0.0050	110.40	0.385	8.6	0.840	13.00	2.2	3.80	0.0040	0.1	6.50	0.70	JvR	graphitic shear with brecciated quartz and minor limonite; in the HW of fault sampled in JvR02001

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2002 Pickhandle Soil																			
NUMBER	BA_PPM	CR_PPM	GA_PPM	LA_PPM	MN_PPM	SR_PPM	V_PPM	ZN_PPM	AL__	AG_PPM	AS_PPM	AU_PP	B_PPM	BI_PPM	CA__	CD_PPM	CO_PPM	CU_PPM	FE__
176534	117	29	5	10	688	94	101	65	1.15	0.10	7.3	1.10	5.0	0.10	4.52	0.10	15.1	36.2	3.470
	HG_PP	K__	MG__	MO_PP	NA__	NI_PP	P__	PB_S__	SB_PPM	SC_PPM	TH_PP	TI__	TL__	U_PPM	W_PPM	PERSON	QUALIT	DESCRIPTION	
	0.01	0.07	1.36	0.70	0.0880	29.30	0.089	4.2	0.025	0.40	6.3	1.70	0.1200	0.1	0.50	0.10	RS	fair	"Till sample. Fine silt and clay matrix with abundant cobble to boulder clasts. Including grey quartzite/diss py, light grey quartzite, light grey limestone, f.g. green mafic volcanic, hbl'd diorite, coarse grained granite, black argillite, amygdloidal basalt w/agate, white quartz, maroon volcanic porphyry, dark green porphyry.

2002 Pickhandle Silts																																						
NUMBER	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	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	PERS	QUA	DESCRIPTIO
176461	74	58	5	7	435	34	99	53	1.26	0.05	4.9	0.25	5.0	0.05	0.74	0.10	13.8	29.6	3.230	0.09	0.06	0.95	0.40	0.0270	28.00	0.092	2.3	0.025	0.30	3.3	1.60	0.0950	0.1	0.40	0.10	JvR	poor	silt on North side of river but suspect disturbed graves for bridge construction; marble and schist rounded cobbles near sample site and contains a high ash content
176532	119	59	5	9	667	46	78	75	1.55	0.10	7.4	2.10	6.0	0.10	0.97	0.20	16.0	50.6	3.040	0.02	0.09	1.11	0.50	0.0400	35.20	0.105	4.2	0.070	0.40	4.7	1.80	0.1010	0.1	0.70	0.10	RS	poor	fine black clay and organics on an organic stream bed. Upstream from Koidem No. 2 bridge.
176536	53	88	6	7	391	28	251	56	0.85	0.05	4.9	0.90	5.0	0.10	0.64	0.10	14.6	23.6	6.020	0.50	0.04	0.69	0.40	0.0150	22.30	0.099	2.2	0.025	0.30	2.3	2.10	0.1200	0.1	0.30	0.20	RS	fair	"Koidem River. Lake Campground. Silt with grey-white ash. Granodiorite, grey quartzite, greenstone, tan quartzite, maroon chert, phyllite, gneiss and quartz pebbles"