

LITHOGEOCHEMISTRY

Minen Labs has mixed up samples  
89L2002 & 2003.

1989 827785

MAJOR OXIDES

TRACE ELEMENTS

Surface ICP Samples  
Mt. Sicker - LARA

SAMPLE NUMBER	WEST	North	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO <sub>2,3</sub>	MnO <sub>2</sub>	TiO <sub>2</sub>	RAT	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type
89L2001	111+50	108+47	71.69	14.90	0.01	1.28	3.32	2.19	3.39	0.12	0.23	0.082	15	50	21	0.20	5	Coordinates wrt Abermin map
89L2002	110+04	103+10	49.87	16.37	0.31	3.03	1.45	3.19	15.79	0.08	0.65	0.280	368	80	37	1.40	10	Trench 4 Felsic Ash
89L2003	110+00	103+06	72.24	12.73	1.01	2.77	1.51	2.23	3.51	0.04	0.19	0.278	8	31	29	0.70	5	Trench 4 Plotted Int Tuff 10% py
89L2004	107+25	104+74	68.10	15.05	1.47	2.37	5.23	0.85	3.70	0.13	0.29	0.020	11	67	32	0.90	5	FP Tuff
89L2005	106+96	104+78	71.82	14.49	0.42	1.79	4.49	1.90	2.71	0.08	0.27	0.055	28	41	21	0.60	5	FP Tuff
89L2006*	106+22	106+93	48.46	18.21	3.41	3.31	4.91	1.65	9.36	0.06	0.81	0.055	14	36	35	1.90	5	Int - And T. 10% py
89L2007	105+50	107+90	71.81	14.42	1.53	1.25	4.42	1.63	2.28	0.05	0.22	0.130	8	26	17	0.80	10	
89L2008	106+06	106+59	70.12	14.69	0.11	2.74	2.30	3.87	2.10	0.08	0.23	0.095	10	33	30	0.90	5	QFP coarsely foliated.
89L2009	106+20	104+20	48.54	15.51	6.66	5.87	3.80	0.89	7.93	0.28	0.61	0.055	86	102	52	2.50	10	And Ash
89L2010	106+43	107+73	67.91	13.59	3.63	1.23	3.77	1.78	2.56	0.04	0.28	0.055	8	22	17	0.80	10	
89L2011	106+28	103+31	77.09	12.40	0.01	1.93	0.29	3.15	1.89	0.04	0.14	0.210	12	20	19	0.50	15	
89L2012	101+49	107+27	72.44	12.35	2.00	1.60	2.66	1.62	2.93	0.08	0.20	0.065	26	35	21	0.8	5	QP
89L2013	101+24	107+12	61.85	14.27	6.28	1.21	3.41	2.07	2.27	0.13	0.21	0.070	7	33	22	1.2	5	QP
89L2014	100+83	106+87	72.90	14.86	0.01	1.43	2.16	3.04	2.12	0.03	0.21	0.090	9	30	19	0.40	10	QFP
89L2015	100+38	106+62	71.00	15.38	0.05	1.38	3.56	2.78	2.43	0.12	0.23	0.085	8	32	20	0.70	5	FP rare g.s fresh
89L2016	100+10	106+42	74.04	13.89	0.01	1.07	3.06	2.73	1.85	0.10	0.22	0.075	8	28	15	0.40	5	(Q) FP very fresh.
89L2017	100+05	107+35	75.63	13.54	0.01	1.34	0.96	2.20	2.54	0.06	0.20	0.075	17	44	20	0.40	5	F Tuff shitty etc
89L2018	100+18	108+29	48.73	18.53	6.84	4.83	3.05	0.48	10.65	0.20	0.81	0.025	47	92	45	2.70	5	And Xstal Tuff
89L2019	100+04	104+98	52.65	15.92	0.05	6.88	1.56	0.57	13.09	0.28	1.91	0.020	154	238	54	0.7	5	And Ash.

Entered by \_\_\_\_\_

Logged by \_\_\_\_\_

## LITHOGEOCHEMISTRY

## MAJOR OXIDES

## TRACE ELEMENTS

SAMPLE NUMBER	West	North	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO <sub>23</sub>	MnO <sub>2</sub>	TiO <sub>2</sub>	Ba Total	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type
89L2020	100+47	103+73	81.17	9.93	0.01	1.10	0.09	3.14	1.34	0.01	0.11	0.185	20	12	6	0.30	10	F. Ash, cherty, 1% f. diss py
89L2021	99+98	103+36	81.48	9.45	0.29	1.21	0.07	2.61	1.87	0.05	0.13	0.175	63	28	12	0.60	20	
89L2022	87+92	104+68	52.24	14.86	1.08	6.31	3.40	0.16	11.05	0.17	0.54	0.036	61	93	57	1.7		Andesite Tuff, 5% py.
89L2023	87+66	104+59	48.52	14.25	9.60	5.98	1.56	0.01	11.33	0.19	1.65	0.011	469	89	45	3.5		Diorite
89L2024	88+77W	105+10	52.57	16.19	1.17	7.89	2.68	0.77	8.97	0.36	0.60	0.113	52	203	72	2.4		Andesite Ash/Tuff
89L2025	86+85	104+28	70.65	14.36	0.81	0.57	2.26	3.59	1.85	0.06	0.19	0.078	5	23	10	0.6		QFP coarse g's
89L2026	86+74	104+28	71.64	12.85	0.77	0.53	3.07	2.59	1.96	0.05	0.18	0.048	9	26	19	0.8		" " "
89L2027	approx 104+30	approx 109+90	64.63	11.73	1.18	0.95	0.41	2.99	5.11	0.06	0.26	0.073	438	3748	3116	3.2		Felsic Ash, fine syngenetic sulfides Chalcopyrite, galena, minor g'te veining.
89L2028	81+11	107+62	75.12	11.61	0.01	1.79	3.16	1.49	2.14	0.03	0.25	0.079	9	75	49	0.5		Felsic Tuff, Lapilli Tuff, QP.
89L2029	No Sample																	
89L2030	79+60	107+43	78.84	10.04	0.01	0.64	0.15	3.31	3.05	0.01	0.20	0.196	29	16	17	0.7		Felsic Tuff/Ash mod gossan
89L2031	79+60	107+55	80.38	8.52	0.01	0.60	0.96	2.33	2.82	0.01	0.20	0.118	6	10	15	0.2		" " 1-2% py mod alt. Duplicate of GG-86-108
89L2032	78+68	107+40	53.41	15.38	6.68	5.55	1.57	0.01	8.98	0.31	0.58	0.005	548	138	55	2.6		Andesite Crystal Tuff
89L2033	79+14	107+53	53.21	12.60	0.01	5.69	1.23	1.57	14.51	0.15	0.54	0.105	222	98	56	0.8		Andesite Gossan in small pit 2-58py very altered appearance. 8% py " " " "
89L2034	77+25	108+06	55.63	16.25	1.6	6.86	3.93	0.01	8.89	0.31	0.61	0.008	49	185	58	2.4		Andesite Crystal Tuff Fresh
89L2035	72+45	106+90	67.00	17.78	0.01	2.02	2.09	4.38	1.87	0.01	0.35	0.287	11	55	21	0.5	5	QP Felsic Tuff
89L2036	72+53	106+83	73.14	12.63	0.01	0.72	1.55	3.30	4.46	0.01	0.24	0.331	24	124	122	0.8	60	" " "
89L2037	68+48	111+58	52.93	17.19	0.61	7.82	3.86	0.93	8.59	0.18	0.74	0.052	11	109	62	1.3	5	Felsic Tuff from shaft 3-58py w-miser
89L2038	68+51	111+39	67.02	13.43	0.01	4.51	1.67	1.83	5.80	0.10	0.31	0.106	48	81	41	0.7	5	QP Felsic Tuff 3-44py
89L2039	69+52	111+88	70.59	14.96	0.32	2.70	2.96	2.25	2.39	0.04	0.30	0.093	7	36	24	0.6	5	FP Crystal Tuff v. Fresh

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SAMPLE NUMBER	West	North	MAJOR OXIDES									TRACE ELEMENTS					Rock Type	
			SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO <sub>2,3</sub>	MnO <sub>2</sub>	TiO <sub>2</sub>	Ba % TOT	ppm Cu	ppm Zn	ppm Pb	ppm Ag		ppb Au
89L2040	69+67	112+17	72.92	14.32	0.52	2.71	3.64	2.09	0.85	0.03	0.22	0.153	4	23	23	0.4	5	QP Tuff Bleached looking
89L2041	68+09	111+14	68.91	15.02	0.01	3.50	2.26	2.79	3.16	0.05	0.29	0.117	6	46	31	0.5	5	QP Crystal Tuff 2-3% fine disc
89L2042	68+04	111+04	56.29	17.05	0.5	7.04	3.53	1.03	7.78	0.14	0.62	0.049	38	<del>126</del>	53	1.4	5	Int-And Tuff/Ash 1-2% Py near contact w ser. b/w F/Ash
89L2043	68+00	110+87	54.63	14.20	0.65	8.44	2.36	0.13	11.51	0.21	0.59	.014	<del>259</del>	97	54	1.7	5	Andesite Tuff/Ash w-m chl 1-2% Py
89L2044	67+84	110+80	54.85	15.51	0.94	6.11	4.12	0.41	9.98	0.14	0.61	.030	13	63	51	1.6	5	Andesite Tuff 3-5% Py
89L2045	67+80	110+78	62.56	0.89	0.03	0.38	0.01	0.01	19.00	0.01	0.02	.005	75	30	8	0.1	5	Qtz-Py stringer w/in Andesite
89L2046	67+80	110+60	54.40	16.46	2.34	6.28	3.52	0.28	10.00	0.17	0.64	.039	30	68	49	1.5	5	Andesite Crystal Tuff, Fresh
89L2047	67+64	110+39	53.34	17.26	3.91	6.26	4.11	0.03	8.56	0.27	0.64	.012	<del>153</del>	<del>100</del>	51	1.8	5	" " "
89L2048	67+57	110+28	59.69	10.39	0.22	4.27	1.86	0.48	15.01	0.12	0.36	.037	30	71	43	1.1	10	" " " 20cm wide gossion
89L2049	66+98	109+31	70.44	14.71	0.18	1.19	5.17	1.29	3.33	0.05	0.29	.107	76	34	19	0.2	5	Felsic Lap T. No alteration
89L2050	66+44	109+07	72.43	13.37	1.02	1.32	5.27	0.62	3.12	0.12	0.27	.035	19	51	25	0.8	5	Siliceous Felsic Dyke
89L2051	66+38	109+03	51.12	18.22	5.30	5.37	4.63	0.25	8.99	0.29	0.68	.031	99	<del>138</del>	56	2.2	5	Andesite Lap Tuff
89L2052	66+13	108+92	69.63	13.53	3.36	1.97	1.94	2.92	2.98	0.06	0.27	.088	24	49	19	0.7	5	Felsic Tuff w/ser. no sulfides
89L2053	65+98	108+78	44.19	16.07	10.49	7.33	1.41	0.18	9.74	0.31	0.76	.043	28	<del>166</del>	59	2.5	5	Mafic Dyke? Andesite
89L2054	68+19	106+79	71.47	14.48	0.40	1.47	5.22	1.17	2.64	0.06	0.30	.065	11	56	25	0.4	5	FP Crystal Tuff, Fresh
89L2055	55+32	111+84	66.99	14.45	0.05	3.58	1.62	2.80	4.99	0.08	0.35	0.135	26	71	33	0.4	5	Felsic Ash/Tuff
89L2056	54+54	112+24	44.32	16.59	0.01	7.45	2.19	1.02	15.85	0.22	0.63	0.057	<del>317</del>	<del>130</del>	62	1.6	5	And Ash
89L2057	54+70	112+38	51.73	18.42	0.33	9.03	3.63	0.46	9.28	0.31	0.67	0.044	28	<del>140</del>	62	1.2	5	And Ash
89L2058	52+91	109+28	67.75	16.37	1.37	1.67	3.93	2.06	3.40	0.17	0.35	0.080	48	82	20	0.5	5	FT
89L2059	52+93	109+38	66.81	15.24	0.07	1.92	3.40	3.49	4.54	0.09	0.32	0.099	<del>383</del>	60	20	0.6	5	FT above adit w/ qtz-pyrox 56

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Lara Grid

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89L2060	53+03	109+35	71.12	13.15	0.08	1.31	2.28	3.38	4.79	0.05	0.16	.094	24	33	13	0.3	5	QP Tuff wser & py
89L2061	53+21	109+74	69.19	13.59	2.79	1.51	1.81	2.77	3.15	0.08	0.29	.176	17	40	15	0.6	10	Felsic Ash
89L2062	53+23	109+61	68.41	15.15	0.01	3.08	2.65	2.97	3.54	0.11	0.32	.079	10	88	31	0.5	10	Felsic Lithic Tuff
89L2063	53+27	109+97	58.63	16.07	0.65	4.04	4.59	0.80	8.81	0.12	0.63	.066	13	78	39	0.6	5	Andesite Ash & chert no sulfide
89L2064	53+32	110+05	59.26	16.55	1.06	3.15	6.28	0.54	8.14	0.12	0.52	.066	15	78	41	1.0	5	" " " " "
89L2065	53+33	110+10											4	33	18	0.1		Q(F)P Tuff
89L2066	53+36	110+42											27	5	105	2.6	44	Qtz Vn w/ 2-3% pyrite
89L2067	53+46	110+43											4	17	7	0.1		QP, Q(F)P Tuff
89L2068	53+37	110+62											21	342	51	0.6		chl And Ash & Xstal Tuff
89L2069	53+42	111+21											13	101	55	1.1		Int Tuff 2-3% py
89L2070	53+46	110+79											52	455	54	0.8		And Xstal Tuff
89L2071	53+52	111+34											8	34	18	0.5		Felsic Tuff (FP?)
89L2072	53+45	111+45											14	37	25	0.5		QFP Xstal Tuff
89L2073	53+42	111+62											8	26	13	0.1		QP Tuff blitzed/looking
89L2074	53+46	111+92											10	20	15	0.5		QP Tuff 2-3% py
89L2075	53+42	112+22											18	7	2	0.1		Fel T (QP) blitzed/looking
89L2076	53+59	112+47											12	59	48	0.1		QP Felsic Lapilli Tuff
89L2077	53+64	112+63											100	123	53	0.5		Int-And Lith Tuff
89L2078	53+66	112+81											274	174	54	0.1		And Lith Tuff? Matric? Ke
89L2079	53+78	113+06											50	176	53	0.1		Int-And fsp Xstal Tuff

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			SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO	MnO	TiO <sub>2</sub>	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au		
89L2080	53+87	113+11											371	194	54	1.1		Int fsp Xstal Tuff 12% py
89L2081	54+14	113+65											18	39	29	0.1		QP Tuff
89L2082	54+11	113+73											13	51	30	1.7		Int Ash?
89L2083	52+65	116+02											10	30	27	0.6		QP Tuff
89L2084	52+69	116+13											80	53	26	0.3		" "
89L2085	51+51	115+98											21	61	43	1.1		FP Felsic Lapilli Tuff
89L2086	51+09	116+00M											12	13	5	0.5		QFP Tuff no sulfides fresh
89L2087	51+02	116+50											13	83	44	1.3		Int Lithic Tuff 2% py w/cvt
89L2088	51+06	116+36											32	120	52	1.1		Int Lithic Tuff 2% py
89L2089	52+18	113+02											20	56	31	0.7		Fel Tuff
89L2090	52+19	112+87											14	146	55	1.1		Int Lithic Tuff
89L2091	52+28	112+74										400ppm	7	2	6	0.4	3	Adit up to 30% py Qtz-Py stringer 10-20 cm wide
89L2092	52+28	112+74											20	119	65	1.1		Int Ash/Tuff wser 3-5% py
89L2093	49+79	111+45											8	36	28	0.6		QP Tuff wser no sulfides
89L2094	50+05	110+71											119	129	50	1.2		And Ash w chl no sulfides
89L2095	48+09	116+15											18	36	23	0.3		QP Fel Tuff wser no sulfides
89L2096	48+01	115+64											19	60	36	0.4		QP Lith Tuff
89L2097	48+03	115+59											16	242	60	0.3		And Lith Tuff
89L2098	48+08	115+16											21	113	47	0.9		And Xstal Tuff
89L2099	48+12	114+69											18	79	48	1.2		And Xstal Tuff 3-5% py as stringers

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89L2100	47+90	113+80											4	55	39	0.4		Fel Tuff QP wser & rpy
89L2101	48+22	112+07											44	125	32	1.2		And Ash/Tuff
89L2102	48+00	112+05											52	109	45	1.0		And Ash
89L2103	48+12	111+29											7	42	18	0.3		QP Tuff & rpy
89L2104	47+00	115+69																And Tuff fresh
89L2105																		And Tuff
89L2106																		And Tuff no alt
89L2107																		And xstal Tuff w chl
89L2108																		And Ash/Tuff m chl
89L2109																		80cm Qtz-Py stringer zone in chl And Tuff
89L2110																		And Xstal Tuff
89L2111																		And Ash w chl
89L2112																		Qtz Py stringer
89L2113																		And Xstal Tuff w-m chl
89L2114																		And xstal Tuff
89L2115																		And Ash+Tuff abundant 1-5cm qtz-py stringer
89L2116																		40cm Qtz-Py stringer 30-70% py
89L2117																		And Xstal Tuff

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89L1001 ✓	124+05	103+57	48.25	14.43	12.05	5.69	1.73	0.10	12.07	0.22	1.75	0.006	187	100	36	3.80	5	
89L1002 ✓	124+27	103+92	72.98	13.78	1.52	0.73	4.16	1.87	2.20	0.05	0.28	0.113	24	26	17	0.80	5	
89L1003 ✓	123+90	104+18	73.62	14.22	0.52	0.52	3.55	2.88	1.93	0.04	0.29	0.089	17	14	9	0.80	5	
89L1004 ✓	123+82	104+85	74.08	13.34	0.10	0.70	4.37	3.27	1.97	0.04	0.15	0.067	7	35	15	0.60	5	
89L1005 ✓	123+70	105+08	74.31	13.51	1.45	0.63	4.19	2.72	1.69	0.04	0.22	0.096	7	29	11	0.60	5	
89L1006 ✓	124+07	105+59	67.51	14.80	3.16	0.97	3.16	2.10	3.61	0.04	0.34	0.124	22	27	21	0.40	5	
89L1007 ✓	123+58	107+15	72.96	14.23	0.17	1.31	1.86	2.97	2.47	0.05	0.23	0.081	9	45	23	0.20	5	
89L1008 ✓	124+08	107+89	71.38	14.16	1.54	0.93	3.58	2.13	2.71	0.05	0.23	0.080	13	42	21	0.80	5	
89L1009 ✓	122+04	103+55	70.08	14.69	2.04	1.52	4.94	1.39	3.03	0.09	0.33	0.047	18	57	32	1.10	5	
89L1010 ✓	122+01	103+80	64.57	16.45	0.37	2.75	2.52	3.84	4.77	0.12	0.48	0.189	24	70	39	1.50	5	
89L1011 ✓	122+53	103+81	61.45	14.88	2.01	4.27	1.97	1.53	7.60	0.31	0.41	0.103	138	356	65	1.60	10	
89L1012 ✓	122+95	104+90	73.89	13.34	0.12	0.58	4.71	3.06	1.62	0.03	0.15	0.076	8	17	12	0.30	10	
89L1013 ✓	122+79	105+30	71.16	14.02	0.78	1.09	3.53	3.89	2.11	0.04	0.22	0.091	3	33	16	0.60	5	
89L1014 ✓	123+04	105+51	48.40	15.74	8.96	4.80	2.17	0.01	12.82	0.22	2.51	0.006	221	129	62	5.90	5	
89L1015 ✓	123+15	105+60	74.58	13.92	0.33	0.89	3.69	2.61	1.38	0.04	0.21	0.053	10	20	24	0.50	10	
89L1016 ✓	120+42	104+81	71.28	14.20	0.84	1.13	3.46	2.66	2.54	0.08	0.30	0.098	38	84	20	0.80	5	
89L1017 ✓	121+29	105+61	72.41	16.05	0.78	1.12	3.76	3.01	1.60	0.02	0.26	0.118	19	16	15	0.60	5	
89L1018 ✓	120+92	104+83	70.58	14.46	0.75	0.89	4.88	2.48	2.32	0.07	0.28	0.089	11	67	18	0.80	5	
89L1019 ✓	121+96	107+51	74.61	12.44	0.83	1.04	3.24	2.40	1.86	0.04	0.18	0.080	10	34	15	0.30	10	
89L1020 ✓	121+98	107+59	41.38	16.43	12.03	3.84	4.72	1.67	8.84	0.18	0.65	0.031	65	85	55	1.60	5	

## LITHOGEOCHEMISTRY

## MAJOR OXIDES

## TRACE ELEMENTS

SAMPLE NUMBER	WEST	North	MAJOR OXIDES										TRACE ELEMENTS					Rock Type
			SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO	MnO	TiO <sub>2</sub>	RAT	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	
89L 1021 ✓	121+74	107+71	59.26	19.11	0.29	2.89	4.48	4.12	5.45	0.05	0.41	0.152	23	56	30	0.50	5	
89L 1022 ✓	122+29	107+45	76.25	11.63	0.96	1.09	2.63	2.15	2.34	0.06	0.18	0.067	24	39	17	0.40	10	
89L 1023 ✓	122+33	107+62	70.69	15.14	1.01	0.71	4.24	3.18	1.98	0.05	0.26	0.064	20	28	1	0.40	5	
89L 1024 ✓	121+56	107+28	71.55	14.42	1.15	0.81	3.61	2.99	2.08	0.05	0.25	0.066	19	29	1	0.40	5	
89L 1025													11	36	12	0.10	5	
89L 1026 ✓	121+48	106+59	72.77	14.29	0.01	0.47	4.83	2.27	2.39	0.06	0.22	0.052	11	36	12	0.10	5	
89L 1027 ✓	122+55	108+32	71.76	14.70	1.10	1.21	3.44	2.58	2.62	0.07	0.23	0.063	10	39	17	0.70	5	
89L 1028 ✓	122+55	108+20	69.69	15.23	2.03	1.52	2.45	2.57	2.99	0.07	0.24	0.10	9	61	26	0.80	10	
89L 1029 ✓	122+86	108+23	74.28	13.37	1.41	0.57	3.65	2.38	1.55	0.04	0.21	0.125	10	25	10	0.80	10	
89L 1030 ✓	123+06	108+30	76.09	11.00	3.63	0.42	2.95	1.76	1.19	0.07	0.18	0.054	11	13	11	0.80	5	
89L 1031 ✓	123+03	108+71	71.00	14.00	1.75	1.08	3.63	2.66	2.07	0.07	0.22	0.069	13	36	22	0.80	10	
89L 1032 ✓	123+70	108+65	73.67	13.51	0.87	1.39	3.26	2.16	2.70	0.06	0.21	0.06	10	33	22	0.60	5	
89L 1033 ✓	123+60	108+11	72.94	13.83	2.41	1.06	2.69	2.45	2.40	0.09	0.22	0.073	10	31	21	0.70	5	
89L 1034 ✓	122+96	107+67	73.79	13.08	1.88	0.98	4.17	2.05	1.70	0.05	0.20	0.064	7	19	15	0.60	10	
89L 1035 ✓	120+25	103+48	73.61	13.20	0.01	0.91	1.41	3.29	4.22	0.02	0.32	0.128	245	31	5	0.20	5	
89L 1036 ✓	118+95	105+74	76.72	13.80	0.01	0.32	2.07	2.66	1.99	0.03	0.22	0.120	8	15	3	0.10	5	
89L 1037 ✓	119+20	105+94	47.60	20.38	10.25	3.21	3.35	0.14	10.12	0.13	0.76	0.008	18	81	47	1.10	5	
89L 1038 ✓	119+40	105+95	46.84	22.74	10.75	2.25	3.83	0.83	7.86	0.13	0.69	0.026	34	61	30	0.70	5	
89L 1039 ✓	119+75	105+67	74.40	13.67	0.15	1.04	2.46	2.15	2.86	0.05	0.22	0.075	119	24	18	0.20	5	
89L 1040 ✓	119+12	105+68	76.79	13.77	0.01	0.76	2.21	2.64	1.83	0.02	0.21	0.102	77	19	10	0.20	35	



## LITHOGEOCHEMISTRY

## MAJOR OXIDES

## TRACE ELEMENTS

SAMPLE NUMBER	West	North	MAJOR OXIDES										TRACE ELEMENTS					Rock Type
			SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO <sub>23</sub>	MnO <sub>2</sub>	TiO <sub>2</sub>	BA7	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	
89L1041 ✓	118+98	104+98	71.14	15.12	0.01	2.43	2.07	3.20	2.13	0.05	0.32	0.103	211	51	27	0.60	10	
89L1042 ✓	119+06	106+63	72.08	13.97	0.78	1.27	4.03	1.62	2.80	0.06	0.21	0.075	44	50	17	0.30	5	
89L1043 ✓	119+34	107+41	70.78	13.67	2.10	1.37	2.12	2.78	3.18	0.06	0.21	0.076	16	56	20	0.50	5	
89L1044 ✓	119+31	107+71	67.93	15.45	0.01	2.46	2.92	2.70	4.24	0.15	0.34	0.067	21	57	40	0.10	5	
89L1045 ✓	119+09	107+75	65.53	14.11	2.36	2.66	3.69	1.49	5.05	0.13	0.35	0.047	18	63	39	0.30	10	
89L1046 ✓	118+98	107+90	72.94	14.31	0.72	1.05	2.64	2.89	2.05	0.07	0.22	0.089	4	30	20	0.20	5	
89L1047 ✓	118+15	107+51	75.38	12.93	0.94	0.94	1.91	2.58	2.05	0.01	0.20	0.075	6	40	16	0.40	5	
89L1048 ✓	118+15	106+89	77.44	12.87	0.01	0.53	3.83	1.96	1.51	0.02	0.19	0.073	5	23	11	0.10	5	
89L1049 ✓	118+30	106+03	71.84	14.34	2.58	0.69	3.95	1.97	2.10	0.04	0.28	0.074	4	17	12	0.30	5	
89L1050 ✓	117+99	105+84	47.76	20.49	12.44	1.58	2.89	0.83	9.08	0.16	0.69	0.023	13	49	29	1.40	5	
89L1051 ✓	118+09	105+80	46.81	22.37	8.41	2.38	4.31	1.91	7.52	0.13	0.62	0.050	5	45	28	1.60	5	↑ plotted
89L1052	117+96	105+30	74.97	12.58	1.96	0.54	4.89	1.60	1.54	0.05	0.28	0.060	28	262	14	0.80	10	
89L1053	117+65	105+24	73.92	12.72	1.61	1.06	5.23	0.77	2.90	0.07	0.28	0.024	22	38	26	0.80	5	↑ plotted
89L1054	117+62	105+30	74.43	13.44	0.85	1.12	5.09	1.45	2.21	0.05	0.29	0.037	11	25	22	0.70	5	
89L1055	103+42	104+13	70.69	13.69	1.09	1.89	3.48	2.58	2.24	0.07	0.23	0.080	28	62	24	0.50	5	
89L1056	103+49	104+01	63.99	16.48	0.01	3.77	0.14	4.79	4.52	0.03	0.39	0.230	65	61	53	0.80	10	
89L1057	103+20	104+37	69.41	15.70	0.19	2.52	1.84	3.90	2.86	0.06	0.33	0.105	30	69	26	0.70	5	
89L1058	101+97	103+87	76.30	11.17	0.01	3.00	0.11	3.19	2.03	0.06	0.13	0.245	21	76	30	0.50	5	
89L1059	102+47	105+67	73.16	14.38	0.17	1.61	2.86	2.31	2.10	0.02	0.22	0.105	9	23	19	0.40	5	
89L1060	105+44	106+77	74.05	13.77	0.19	0.54	3.96	2.03	2.40	0.10	0.24	0.070	19	54	10	0.40	10	

## LITHOGEOCHEMISTRY

## MAJOR OXIDES

## TRACE ELEMENTS

SAMPLE NUMBER	WEST	NORTH	MAJOR OXIDES										TRACE ELEMENTS					Rock Type
			SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO <sub>2,3</sub>	MnO <sub>2</sub>	TiO <sub>2</sub>	BaT	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	
89L1061	126+59	108+19	70.53	14.95	1.17	1.17	3.37	2.56	2.46	0.07	0.22	0.075	16	31	17	0.80	5	
89L1062	125+77	108+13	70.52	16.04	0.74	0.52	2.37	4.23	1.81	0.05	0.25	0.095	10	5	2	0.50	5	
89L1063	126+13	108+47	71.17	15.64	0.76	0.67	2.20	3.02	2.59	0.09	0.24	0.085	9	38	9	0.40	5	
89L1064	125+00	108+35	72.13	15.18	0.56	0.61	2.41	3.47	1.97	0.05	0.23	0.100	8	22	8	0.60	5	
89L1065	101+80	105+35	70.18	15.19	0.01	2.24	3.24	2.24	3.03	0.07	0.27	0.075	17	65	29	0.50	5	
89L1066	101+75	104+93	71.44	15.44	0.01	1.35	3.01	2.53	2.91	0.07	0.31	0.090	25	46	15	0.50	10	
89L1067	102+21	106+84	71.08	14.93	0.04	1.46	4.25	2.39	2.29	0.06	0.23	0.070	14	27	14	0.50	10	
89L1068	101+83	108+36	50.80	19.47	1.26	4.70	3.72	2.01	9.92	0.09	0.93	0.040	44	81	41	2.1	5	
89L1069	102+13	107+76	53.99	18.16	5.95	2.40	2.36	1.81	10.07	0.14	0.55	0.125	437	83	28	1.7	5	↑ Plotted
89L1070	98+00	106+40	66.19	14.69	0.74	1.55	2.03	2.59	2.49	0.11	0.22	0.113	3	37	35	0.4		
89L1071	98+15	106+13	68.96	13.60	0.01	1.63	1.60	3.10	2.12	0.04	0.27	0.082	13	66	46	0.4		
89L1072	97+78	105+96	69.65	14.81	0.01	1.81	2.37	2.79	2.53	0.08	0.3	0.075	17	78	44	0.4		
89L1073	97+38	106+93	67.53	15.52	0.01	1.78	2.44	2.90	3.01	0.07	0.31	0.079	27	70	34	0.3		
89L1074	83+07	107+33N	52.44	15.88	9.78	3.98	1.85	0.01	8.48	0.36	0.62	0.022	106	128	54	2.7		XGrid
89L1075	82+97	107+75N	53.82	16.12	5.62	5.35	2.42	0.01	9.79	0.26	0.62	0.022	36	94	44	2.3		XGrid
89L1076	83+25	108+00	66.71	14.92	0.01	2.84	0.19	3.40	5.01	0.07	0.32	0.157	42	52	35	0.9		XGrid
89L1077	83+53	108+03	66.76	14.31	0.04	4.65	0.73	2.50	3.83	0.10	0.40	0.093	5	73	45	1.4		XGrid
89L1078	83+53	107+99	69.08	10.97	0.01	1.13	0.12	2.98	2.86	0.01	0.13	0.169	12	20	19	0.5		XGrid
89L1079	83+86	107+14	52.06	15.06	11.63	6.93	1.59	0.01	9.60	0.34	0.58	0.013	112	78	52	2.5		XGrid
89L1080	82+64	106+70	49.58	20.03	8.70	4.91	4.36	0.01	9.92	0.21	0.89	0.018	104	69	34	3.1		XGrid

# LITHOGEOCHEMISTRY

## MAJOR OXIDES

## TRACE ELEMENTS

SAMPLE NUMBER	West	North	MAJOR OXIDES									TRACE ELEMENTS					Rock Type	
			SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO <sub>23</sub>	MnO <sub>2</sub>	TiO <sub>2</sub>	Ba TOT %	ppm Cu	ppm Zn	ppm Pb	ppm Ag		ppb Au
89L1081 ✓	70+80	112+01	51.63	22.87	3.92	3.55	2.05	5.08	4.99	0.07	0.82	0.257	313	83	39	1.8	5	XGrid
89L1082 ✓	69+14	106+82	75.97	12.97	0.57	0.35	6.03	0.45	1.63	0.02	0.28	.041	8	12	8	0.3	5	XGrid
89L1083 ✓	69+15	106+78	66.21	16.53	2.90	2.44	1.92	1.97	4.13	0.08	0.35	.059	6	48	31	0.8	5	XGrid
89L1084 ✓	69+13	107+16	54.99	18.06	2.37	4.06	0.79	5.04	7.86	0.32	0.63	0.250	244	649	39	1.5	5	XGrid
89L1085													7	25	23	0.4		
89L1086													14	44	23	0.6		
89L1087													7	42	28	0.6		
89L1088													8	34	32	0.7		
89L1089													47	26	23	0.5		
89L1090													5	10	13	0.3		
89L1091																		
89L1092																		
89L1093																		
89L1094																		
89L1095																		

## LITHOGEOCHEMISTRY

## MAJOR OXIDES

## TRACE ELEMENTS

SAMPLE NUMBER			MAJOR OXIDES										TRACE ELEMENTS					Rock Type
	WEST	NORTH	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO	MnO	TiO <sub>2</sub>	BaO	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	
89L 3000																		✓
89L 3001	117+26	104+00	68.69	14.33	3.18	1.84	2.09	1.75	3.83	0.09	0.28	0.080	70	55	42	0.90	15	✓
89L 3002	117+14	107+51	75.92	14.22	0.01	0.32	0.64	3.76	1.42	0.02	0.23	0.100	5	10	8	0.10	5	✓
89L 3003	115+88	108+06	75.99	14.15	0.01	0.43	1.83	3.22	1.89	0.05	0.22	0.079	4	13	7	0.10	5	✓
89L 3004	115+95	105+11	71.94	14.15	0.25	1.32	4.14	2.57	2.21	0.04	0.31	0.089	9	14	15	0.50	5	✓
89L 3005	115+58	104+00	71.16	15.37	0.88	1.42	1.04	4.40	2.84	0.04	0.30	0.133	30	16	9	0.70	10	✓
89L 3006	115+91	103+47	73.98	13.12	0.01	2.37	0.52	2.96	3.33	0.07	0.28	0.237	21	44	23	0.30	5	✓
89L 3007	115+09	102+60	69.95	15.24	1.10	1.06	3.91	1.86	3.48	0.04	0.25	0.169	11	18	11	0.50	5	✓
89L 3008	114+80	103+27	63.58	14.46	3.85	3.60	2.56	0.45	6.72	0.23	0.29	0.042	32	103	45	1.10	5	✓
89L 3009	114+85	103+85	70.77	12.64	5.58	0.53	2.36	2.26	1.47	0.09	0.02	0.068	4	11	8	0.70	5	✓
89L 3010	114+97	106+69	51.26	18.14	1.92	7.82	2.00	2.07	9.34	0.43	0.68	0.138	96	337	71	1.70	5	✓
89L 3011	113+93	104+90	70.67	14.06	1.61	1.03	5.52	1.35	3.52	0.07	0.32	0.044	13	31	14	1.00	10	✓
89L 3012	114+20	103+79	54.25	18.27	0.01	7.43	1.05	3.00	9.35	0.42	0.67	0.202	90	235	56	1.40	5	✓
89L 3013	114+04	103+18	69.50	14.12	1.83	2.85	1.58	2.35	4.24	0.12	0.32	0.137	16	74	34	0.80	5	✓
89L 3014	112+92	104+01	72.01	15.57	0.24	0.93	2.74	4.18	1.85	0.03	0.29	0.101	7	12	7	0.50	5	✓
89L 3015	113+07	104+54	70.41	15.38	0.35	1.34	4.50	2.96	1.96	0.04	0.31	0.088	3	24	9	0.10	5	✓
89L 3016	113+10	105+06	73.87	14.46	0.07	1.63	4.32	2.08	1.43	0.04	0.22	0.069	5	28	18	0.50	5	✓
89L 3017	111+84	105+18	73.06	14.25	2.12	0.69	4.81	1.54	2.40	0.08	0.21	0.089	5	11	20	0.50	5	✓ ↑ Plotted
89L 3018	112+17	104+65	72.16	14.11	0.01	2.06	3.42	2.12	2.42	0.03	0.16	0.050	12	36	20	0.06	5	
89L 3019	104+80	107+09	61.32	17.97	4.92	1.45	5.43	0.61	4.91	0.12	0.28	0.035	11	27	17	1.1	10	

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	WEST	NORTH	MAJOR OXIDES									TRACE ELEMENTS					Rock Type		
			SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	FeO <sub>23</sub>	MnO <sub>2</sub>	TiO <sub>2</sub>	BaT	ppm Cu	ppm Zn	ppm Pb	ppm Ag		ppb Au	
9913020	104+87	107+104	45.15	18.42	6.10	3.76	1.75	2.06	12.80	0.15	0.94	0.095	14	52	40	2.1	10	Plotted	
9913021	104+88	107+21	40.54	20.53	9.37	4.45	1.65	1.32	12.80	0.20	0.96	0.065	14	61	43	2.4	5		









LARA 18

July 20/89

SAMPLE\_NA LOI  
 SAMPLE\_NA %  
 89L1070 2.8  
 89L1071 2.55  
 89L1072 2.2  
 89L1073 2  
 89L1074 4.25  
 89L1075 3.7  
 89L1076 4.1  
 89L1077 3.5  
 89L1078 2.35  
 89L1079 4.5  
 89L1080 2.9  
 89L2022 5.7  
 89L2023 5.4  
 89L2024 5  
 89L2025 2.2  
 89L2026 2.35  
 89L2027 4.9  
 89L2028 2  
 89L2030 2.2  
 89L2031 2.15  
 89L2032 3.6  
 89L2033 8.3  
 89L2034 4.6  
 89L2011B 15.25

SAMPLE_NA	AG	AS	BA	CU	PB	SB	ZN
89L-1070V	0.4	2	268	3	35	1	37
89L-1071V	0.4	3	267	13	46	1	66
89L-1072V	0.4	4	203	17	44	1	78
89L-1073V	0.3	4	182	27	34	1	70
89L-1074V	2.7	1	175	106	54	1	128
89L-1075V	2.3	1	195	36	44	1	94
89L-1076V	0.9	5	181	42	35	1	52
89L-1077V	1.4	1	122	5	45	1	73
89L-1078V	0.5	20	387	12	19	1	20
89L-1079V	2.5	1	115	112	52	1	78
89L-1080V	3.1	1	54	104	34	1	69
89L-2022V	1.7	1	189	61	57	1	93
89L-2023V	3.5	1	82	169	45	1	89
89L-2024V	2.4	1	134	52	72	1	203
89L-2025V	0.6	16	181	5	10	1	23
89L-2026V	0.8	22	137	9	19	1	26
89L-2027V	3.2	35	90	438	3116	6	3748
89L-2028V	0.5	11	184	9	49	1	75
89L-2030V	0.7	30	296	29	17	1	16
89L-2031V	0.2	28	251	6	15	1	10
89L-2032V	2.6	1	37	548	55	1	138
89L-2033V	0.8	1	93	222	56	1	98
89L-2034V	2.4	1	23	49	58	1	185
89L-2011B	1.5	66	29	327	12	1	36

Where's the Gold?

SAMPLE_NA	AL203	BAT	CAO	FE203	K2O	MGO	MNO2	NA2O	P2O5	SI02	TIO2
89L-1070V	14.09	0.113	0.74	2.49	2.59	1.55	0.11	2.03	0.2	66.19	0.22
89L-1071V	13.6	0.082	0.01	2.12	3.1	1.63	0.04	1.6	0.16	68.96	0.27
89L-1072V	14.81	0.075	0.01	2.53	2.79	1.81	0.08	2.37	0.17	69.65	0.3

89L-1073V	15.52	0.079	0.01	3.01	2.9	1.78	0.07	2.44	0.19	67.53	0.31
89L-1074V	15.88	0.022	9.78	8.48	0.01	3.98	0.36	1.85	0.74	52.44	0.62
89L-1075V	16.12	0.022	5.62	9.79	0.01	5.35	0.26	2.42	0.65	53.82	0.62
89L-1076V	14.92	0.157	0.01	5.01	3.4	2.84	0.07	0.19	0.27	66.71	0.32
89L-1077V	14.31	0.093	0.04	3.83	2.5	4.65	0.1	0.73	0.28	66.76	0.4
89L-1078V	10.97	0.169	0.01	2.86	2.98	1.13	0.01	0.12	0.15	69.08	0.13
89L-1079V	15.06	0.013	11.63	9.6	0.01	6.93	0.34	1.59	0.92	52.06	0.58
89L-1080V	20.03	0.018	8.7	9.92	0.01	4.91	0.21	4.36	0.77	49.58	0.89
89L-2022V	14.86	0.036	1.08	11.05	0.1	6.31	0.17	3.4	0.55	52.24	0.54
89L-2023V	14.25	0.011	9.6	11.33	0.01	5.98	0.19	1.56	0.9	48.52	1.65
89L-2024V	16.19	0.113	1.17	8.97	0.77	7.89	0.36	2.68	0.58	52.57	0.6
89L-2025V	14.36	0.078	0.81	1.85	3.59	0.57	0.06	2.26	0.13	70.65	0.19
89L-2026V	12.85	0.048	0.77	1.96	2.59	0.53	0.05	3.07	0.13	71.64	0.18
89L-2027V	11.73	0.073	1.18	5.11	2.99	0.95	0.06	0.41	0.24	64.63	0.26
89L-2028V	11.61	0.079	0.01	2.14	1.49	1.79	0.03	3.16	0.17	75.12	0.25
89L-2030V	10.04	0.196	0.01	3.05	3.31	0.64	0.01	0.15	0.1	78.84	0.2
89L-2031V	8.52	0.118	0.01	2.82	2.33	0.6	0.01	0.96	0.13	80.38	0.2
89L-2032V	15.38	0.005	6.68	8.98	0.01	5.55	0.31	1.57	0.73	53.41	0.58
89L-2033V	12.6	0.105	0.01	14.51	1.57	5.69	0.15	1.23	0.56	53.21	0.54
89L-2034V	16.25	0.008	1.6	8.89	0.01	6.86	0.31	3.93	0.55	55.63	0.61
89L-2011B	0.76	0.009	0.01	17.72	0.01	0.23	0.01	0.01	0.44	64.92	0.04

Action? retain  
 Retained.  
 Action? exit  
 Command? bye