



GEOCHEMICAL ANALYSIS CERTIFICATE

521672



Atna Resources PROJECT PITT-91

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103H/12

620 - 800 W. Pender St., Vancouver BC V6C 2V6

Submitted by: PETER DELANCEY

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm		
MB-PITT-91-1	14	266	42	48	.3	8	3	139	1.58	5	13	ND	1	24	.2	2	2	9	.15	.033	2	16	.45	116	.04	2	.81	.16	.31	3		
MB-PITT-91-2	4	237	19	48	.1	8	60	288	10.18	2	5	ND	1	12	.2	2	2	93	.38	.093	2	8	1.38	131	.20	2	2.07	.09	1.31	1		
MB-PITT-91-3	11	112	11	67	.1	7	7	205	3.45	2	5	ND	1	25	.2	2	2	23	.16	.026	4	8	.76	187	.12	4	1.16	.11	.41	1		
MB-PITT-91-4	32	461	7	119	.6	3	70	600	7.31	4	5	ND	1	9	.2	2	2	27	.09	.019	2	8	2.28	240	.21	6	2.44	.08	1.78	1		
MB-PITT-91-5	8	1510	192	515	5.0	7	36	125	16.93	21	5	ND	1	15	3.1	2	18	12	.08	.013	2	7	.27	441	.08	2	.52	.09	.38	1		
MB-PITT-91-6	3	62	12	4	.1	8	35	36	2.73	18	5	ND	1	1	.2	2	2	1	.03	.004	2	9	.01	2	.01	2	.03	.01	.01	1		
MB-PITT-91-7	2	148	5	66	.2	24	34	492	6.21	5	5	ND	1	250	.2	2	2	116	.64	.067	2	20	1.99	126	.32	2	2.98	.17	1.55	1		
MB-PITT-91-8	152	2673	5313	20443	13.1	30	33	480	15.28	3	5	ND	1	28	163.5	2	32	60	.26	.055	2	16	1.00	1281	.27	2	1.61	.12	.99	8		
MB-PITT-91-9	64	14913	6009	22393	23.5	21	31	442	14.96	3	5	ND	1	16	177.0	2	50	51	.25	.054	2	13	.88	952	.25	2	1.55	.08	.95	14		
MB-PITT-91-10	21	269	838	3992	13.9	5	20	48	8.89	2	5	ND	1	6	31.0	2	37	3	.03	.009	2	4	.04	238	.03	2	.20	.03	.13	1		
MB-PITT-91-11	7	263	26	196	.5	15	17	556	5.05	4	5	ND	2	16	1.2	2	2	80	.19	.052	4	15	2.12	248	.26	2	2.81	.15	1.78	1		
MB-PITT-91-12	4	717	462	82	.6	11	2	66	.90	5	5	ND	1	18	.9	2	8	2	.06	.003	3	10	.05	119	.01	2	.26	.10	.06	1		
MB-PITT-91-13	69	10626	1666	1167	11.2	11	35	108	6.67	2	5	ND	1	26	11.3	2	22	5	.10	.012	2	6	.08	182	.03	2	.31	.08	.12	1		
MB-PITT-91-14	47	6668	106	53	3.6	15	13	36	13.08	2	5	ND	2	3	.6	2	29	11	.02	.013	2	17	.01	50	.08	5	.10	.02	.01	1		
MB-PITT-91-15	543	685	55	21	1.0	18	17	48	6.17	2	9	ND	1	11	.2	2	4	1	.13	.005	2	11	.01	51	.01	2	.09	.02	.03	1		
MB-PITT-91-16	669	203	33	10	.8	14	4	47	1.32	2	5	ND	1	13	.2	2	2	2	.03	.004	2	11	.01	30	.01	2	.07	.03	.04	1		
PD-PITT-91-1	4	121	19	65	.2	16	23	554	5.88	12	5	ND	1	24	.5	2	2	143	.38	.081	2	31	2.62	275	.34	2	3.33	.17	2.33	1		
PD-PITT-91-2	2	45	3	85	.1	10	22	954	6.87	2	5	ND	1	13	.2	2	2	158	.27	.092	2	12	3.60	338	.41	3	4.62	.12	3.49	1		
PD-PITT-91-3	5	14	5	29	.4	7	6	447	2.96	8	5	ND	8	25	.3	5	2	14	.35	.057	14	6	.99	297	.19	4	1.69	.19	.92	2		
PD-PITT-91-4	6	31	2	43	.1	14	18	365	3.80	22	5	ND	1	74	.2	2	2	51	.78	.050	5	19	1.13	169	.18	2	2.74	.30	1.10	1		
PD-PITT-91-5	28	2751	176	1065	4.7	16	59	350	19.09	23	6	ND	2	17	6.6	2	29	53	.19	.073	2	12	1.01	39	.15	5	1.65	.04	.85	1		
PD-PITT-91-6	125	8429	255	1098	6.6	17	34	356	14.54	6	5	ND	2	11	8.0	2	43	46	.16	.053	2	12	.84	41	.17	4	1.32	.05	.83	1		
PD-PITT-91-7	151	9877	44	430	6.2	27	6	278	8.86	5	5	ND	1	8	2.6	2	31	30	.05	.017	2	10	.47	32	.13	2	.90	.05	.59	1		
PD-PITT-91-8	233	1922	84	1290	1.5	17	24	185	7.69	23	5	ND	1	9	12.7	2	9	11	.05	.006	2	11	.49	50	.07	2	.64	.06	.42	1		
PD-PITT-91-9	5	152	13	44	.1	7	28	322	6.26	3	5	ND	1	3	.2	2	2	88	.12	.053	2	8	2.53	86	.17	2	4.12	.06	1.25	1		
PD-PITT-91-10	52	1294	8	1444	.7	7	20	222	8.53	2	5	ND	2	6	106.8	2	2	21	.04	.024	3	9	.62	44	.09	2	1.02	.05	.63	1		
PD-PITT-91-11	116	943	14	66	1.0	13	10	199	2.22	4	5	ND	2	9	.6	2	6	8	.04	.002	3	18	.63	151	.06	2	.82	.06	.51	1		
PD-PITT-91-12	119	4634	2080	5838	7.1	15	25	607	10.48	3	5	ND	2	11	39.7	2	27	65	.14	.041	2	17	1.46	473	.30	2	2.22	.07	1.62	1		
PD-PITT-91-13	75	9755	3065	12553	13.6	25	16	598	10.86	2	5	ND	1	12	94.4	2	47	58	.17	.044	2	17	1.23	707	.31	2	1.81	.06	1.48	1		
PD-PITT-91-13 DUP	6	264	20	87	.4	15	29	458	4.74	2	6	ND	1	15	.2	2	2	141	.17	.067	2	7	1.28	75	.15	2	1.70	.17	1.04	1		
PD-PITT-91-15	1	59	18	100	.2	16	23	1097	8.89	10	5	ND	1	10	.5	2	2	179	.19	.053	2	12	4.11	187	.38	2	6.22	.10	3.61	1		
PD-PITT-91-16	33	4196	36	148	2.2	17	9	234	6.66	2	5	ND	1	4	.9	3	35	10	.02	.007	2	8	.45	34	.08	2	.62	.03	.42	1		
PD-PITT-91-17	271	3080	76	88	1.8	17	16	150	4.83	5	5	ND	2	12	.8	2	17	8	.07	.006	2	14	.34	40	.05	2	.61	.10	.25	2		
PD-PITT-91-18	323	3737	48	24	2.1	15	7	48	4.18	2	6	ND	1	3	.4	2	24	1	.01	.003	2	9	.04	39	.02	2	.15	.03	.12	1		
PD-PITT-91-19	317	2141	60	57	1.1	25	11	163	5.21	2	5	ND	1	8	.4	2	13	7	.04	.001	2	13	.29	47	.04	2	.46	.06	.26	1		
STANDARD C	20	60	43	134	7.2	76	32	1090	4.02	42	18	7	40	53	18.7	15	18	58	.51	.098	40	59	.88	179	.09	32	1.90	.07	.15	11		
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Ba* ppm
PD-1	58	3893	1153	5595	7.8	19	4	619	9.45	84	5	ND	1	7	34.5	9	2	75	.16	.059	2	42	1.40	25	.39	2	2.31	.05	1.66	1	71	5537
PD-2	100	16861	6316	8198	24.0	10	2	88	7.62	18	5	ND	1	15	60.3	2	5	8	.14	.031	2	22	.13	20	.08	2	.32	.05	.19	1	300	8479
PD-3	30	1042	18877	842	368.6	13	2	42	.88	2588	5	3	1	4	7.8	333	4	1	.04	.009	2	13	.02	25	.01	3	.04	.01	.01	1	4820	99

ASSAY RECOMMENDED