



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1 Canada

Submitted By: James Rogers
Receiving Lab: Canada-Whitehorse
Received: July 06, 2020
Analysis Start: July 10, 2020
Report Date: July 16, 2020
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CERTIFICATE OF ANALYSIS

WHI20000083.1

CLIENT JOB INFORMATION

Project: Silverhart
Shipment ID:
P.O. Number
Number of Samples: 87

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	87	Dry at 60C			WHI
SS80	87	Dry at 60C sieve 100g to -80 mesh			WHI
AQ250	87	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN
SHP01	87	Per sample shipping charges for branch shipments			VAN
SVRJT	87	Save all or part of Soil Reject			WHI

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Longford Exploration Services Ltd.
460-688 West Hastings St.
Vancouver British Columbia V6B 1P1
Canada

CC: Kevin Brewer
Vedran Pobric



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
1811251	Soil	2.30	12.34	35.34	67.7	340	8.6	4.3	239	2.29	4.2	1.7	14.4	1.0	8.6	0.16	0.31	1.68	40	0.07	0.062
1811252	Soil	5.19	37.18	27.36	152.0	542	26.6	7.5	194	4.26	7.3	1.8	10.4	7.4	11.8	0.11	0.50	9.18	43	0.06	0.091
1811253	Soil	2.73	10.24	58.05	52.5	165	10.4	5.3	190	2.23	2.3	0.9	<0.2	5.2	10.4	0.10	0.23	0.75	39	0.05	0.037
1811254	Soil	0.82	7.91	11.19	45.7	122	7.1	4.4	153	1.84	2.2	1.5	1.2	12.0	10.2	0.16	0.15	0.73	29	0.13	0.085
1811255	Soil	0.87	5.72	9.09	39.8	270	5.2	3.4	135	2.05	1.9	3.0	0.6	8.9	10.8	0.08	0.16	0.78	33	0.09	0.053
1811256	Soil	0.93	4.72	6.65	25.2	81	3.9	2.2	77	1.09	0.9	0.7	0.5	7.8	7.9	0.02	0.16	0.60	24	0.03	0.014
1811257	Soil	1.15	6.13	7.70	38.1	175	7.2	3.8	181	2.45	3.2	0.9	1.7	8.4	9.6	0.10	0.25	0.78	41	0.05	0.099
1811258	Soil	1.60	5.38	11.18	44.0	285	6.0	3.2	172	1.43	1.9	1.5	1.0	7.5	14.3	0.18	0.18	0.66	28	0.07	0.056
1811259	Soil	1.82	6.50	12.64	63.9	158	6.2	3.1	162	1.95	2.8	0.9	<0.2	8.0	14.0	0.34	0.21	0.92	32	0.06	0.037
1811260	Soil	6.14	20.05	25.40	167.3	160	15.4	19.8	1880	3.24	3.6	1.4	0.7	0.9	9.9	1.45	0.41	1.19	43	0.03	0.053
1811261	Soil	11.59	29.66	24.40	233.5	377	19.3	7.4	721	2.82	5.1	5.0	1.5	1.1	36.8	1.03	0.43	1.60	46	0.38	0.121
1811262	Soil	4.35	6.70	12.52	77.2	58	7.9	4.1	227	2.53	3.4	0.8	1.6	4.7	11.2	0.35	0.34	0.84	49	0.07	0.045
1811263	Soil	2.55	27.44	56.29	206.7	684	23.5	12.1	646	3.43	19.4	4.5	4.2	10.3	27.9	0.77	1.17	3.38	48	0.25	0.139
1811264	Soil	0.84	8.81	20.13	103.5	445	8.0	4.7	256	2.12	3.7	2.5	0.6	4.3	13.3	0.37	0.28	1.08	36	0.13	0.079
1811265	Soil	1.87	6.76	17.08	98.5	152	7.9	4.0	178	2.33	4.9	0.9	11.4	6.0	12.5	0.38	0.29	0.98	41	0.05	0.022
1811269	Soil	0.94	8.09	13.58	100.8	138	7.4	3.7	191	2.29	8.1	0.9	0.4	7.1	27.2	0.71	0.30	1.04	43	0.07	0.019
1811271	Soil	14.21	32.64	74.71	133.7	781	10.7	6.9	351	1.74	7.2	7.4	0.8	1.0	48.9	0.47	0.25	1.60	26	0.39	0.085
1811272	Soil	14.49	16.89	38.27	154.6	107	11.1	6.5	431	2.41	5.6	1.9	0.2	4.7	16.9	0.42	0.30	2.05	42	0.08	0.063
1811273	Soil	2.61	6.26	16.06	45.7	135	4.2	2.2	90	1.22	2.2	0.8	0.6	0.9	12.5	0.29	0.16	0.52	22	0.08	0.030
1811275	Soil	14.35	10.76	26.06	109.4	132	9.4	4.9	276	2.43	2.0	0.9	1.2	2.7	13.1	0.32	0.20	1.30	51	0.09	0.046
1811276	Soil	31.65	14.03	20.59	67.1	281	8.9	3.5	204	1.94	1.4	1.3	0.7	1.6	12.6	0.13	0.17	2.22	46	0.05	0.036
1811277	Soil	0.84	5.38	12.99	51.4	105	5.4	3.2	210	1.70	2.4	0.6	0.6	7.2	12.7	0.13	0.18	0.96	28	0.14	0.148
1811278	Soil	2.57	7.43	9.36	58.4	70	5.8	3.2	114	1.88	2.4	0.7	0.7	7.1	11.6	0.21	0.14	1.33	28	0.11	0.043
1811279	Soil	12.97	14.12	8.22	56.8	36	7.0	3.8	162	1.61	1.9	1.2	1.3	3.4	18.2	0.19	0.17	2.51	27	0.10	0.025
1811280	Soil	73.31	96.09	28.50	145.2	199	45.7	12.2	608	3.94	12.7	7.2	2.5	5.0	33.3	0.21	0.75	12.43	50	0.27	0.064
1811281	Soil	9.24	31.66	13.35	81.6	226	24.9	9.4	216	3.69	4.4	1.0	1.2	8.3	14.6	0.22	0.50	1.24	66	0.08	0.049
1811282	Soil	0.75	5.65	11.35	48.0	78	6.4	3.6	152	2.01	2.0	1.4	1.7	7.0	12.7	0.13	0.16	0.62	34	0.11	0.097
1811283	Soil	0.76	5.94	7.61	35.6	390	5.9	2.8	144	1.92	2.1	0.7	1.8	4.5	7.4	0.06	0.17	0.50	32	0.04	0.127
1811284	Soil	2.09	10.33	10.04	48.6	133	6.5	3.8	156	2.45	2.3	1.4	2.0	12.5	9.0	0.11	0.19	0.84	38	0.05	0.037
1811285	Soil	3.12	11.79	11.06	47.4	169	11.8	4.5	172	2.64	2.4	2.1	0.3	9.5	9.5	0.10	0.22	4.29	45	0.05	0.038



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Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
1811251	Soil	20.0	15.4	0.26	37.0	0.060	<20	1.79	0.005	0.10	0.9	1.3	0.17	0.05	40	0.4	0.05	9.1
1811252	Soil	19.2	34.1	0.36	49.5	0.080	<20	3.18	0.007	0.10	2.0	3.6	0.21	0.06	99	0.7	0.26	8.9
1811253	Soil	16.9	16.1	0.30	36.2	0.082	<20	1.11	0.005	0.08	1.2	1.9	0.13	<0.02	25	0.3	<0.02	8.5
1811254	Soil	32.4	11.6	0.28	64.9	0.067	<20	2.16	0.006	0.12	1.4	2.8	0.18	<0.02	24	0.3	0.03	5.8
1811255	Soil	28.5	11.3	0.25	57.8	0.070	<20	2.11	0.008	0.09	4.5	2.4	0.15	0.02	61	0.2	0.03	7.7
1811256	Soil	23.4	7.0	0.17	32.0	0.077	<20	0.74	0.005	0.09	2.2	1.3	0.12	<0.02	11	<0.1	0.03	8.7
1811257	Soil	21.5	14.6	0.24	32.0	0.077	<20	1.17	0.005	0.07	0.8	1.7	0.09	<0.02	9	0.1	0.04	8.0
1811258	Soil	23.6	12.0	0.24	41.3	0.060	<20	1.33	0.006	0.07	0.5	2.0	0.13	<0.02	29	<0.1	0.02	6.1
1811259	Soil	24.5	11.5	0.23	43.5	0.063	<20	1.20	0.006	0.08	0.7	1.8	0.12	<0.02	32	0.1	0.03	7.7
1811260	Soil	20.0	24.6	0.38	93.0	0.044	<20	1.56	0.006	0.17	0.6	2.0	0.25	0.03	19	0.1	0.02	8.5
1811261	Soil	38.4	19.7	0.53	90.2	0.058	<20	2.05	0.011	0.14	1.3	2.3	0.23	0.08	19	0.6	0.04	10.0
1811262	Soil	19.5	15.6	0.29	59.1	0.106	<20	0.94	0.005	0.10	0.7	2.0	0.14	<0.02	24	<0.1	0.05	9.6
1811263	Soil	45.7	31.4	0.56	84.0	0.089	<20	2.14	0.010	0.24	5.3	3.5	0.26	0.04	48	0.3	0.06	8.7
1811264	Soil	23.5	14.5	0.35	62.2	0.060	<20	1.40	0.006	0.15	0.8	2.1	0.21	0.02	38	0.3	0.03	7.1
1811265	Soil	20.5	14.0	0.29	46.8	0.081	<20	1.14	0.004	0.10	0.9	2.0	0.12	<0.02	12	<0.1	<0.02	8.3
1811269	Soil	24.9	13.6	0.35	46.2	0.081	<20	1.25	0.007	0.12	0.9	2.6	0.14	<0.02	15	0.1	0.03	9.8
1811271	Soil	46.6	11.6	0.31	65.7	0.035	<20	1.25	0.012	0.09	1.2	1.3	0.09	0.06	32	0.3	0.03	5.6
1811272	Soil	17.3	17.6	0.42	52.7	0.106	<20	1.30	0.006	0.13	0.4	2.6	0.14	<0.02	17	<0.1	0.04	7.8
1811273	Soil	17.4	6.8	0.16	29.3	0.033	<20	0.73	0.006	0.06	0.8	0.8	0.07	<0.02	15	<0.1	<0.02	4.8
1811275	Soil	18.4	17.4	0.44	71.2	0.149	<20	1.41	0.008	0.17	0.8	2.7	0.20	<0.02	25	<0.1	0.05	12.4
1811276	Soil	22.9	20.8	0.31	50.9	0.113	<20	1.34	0.008	0.09	0.7	2.1	0.12	0.02	12	<0.1	0.03	11.8
1811277	Soil	20.2	8.9	0.21	39.0	0.046	<20	0.91	0.005	0.09	1.7	1.6	0.08	<0.02	16	<0.1	<0.02	5.0
1811278	Soil	23.0	9.5	0.24	48.0	0.050	<20	1.26	0.007	0.07	0.6	1.8	0.11	<0.02	18	0.2	0.02	6.5
1811279	Soil	22.4	10.5	0.26	33.3	0.057	<20	0.83	0.007	0.09	0.9	1.5	0.10	<0.02	7	<0.1	0.03	5.1
1811280	Soil	36.1	25.6	0.73	142.5	0.080	<20	3.23	0.010	0.28	1.9	6.0	0.40	0.03	21	0.4	0.08	12.5
1811281	Soil	24.0	42.9	0.84	99.5	0.135	<20	2.36	0.006	0.25	0.6	4.1	0.25	<0.02	21	<0.1	0.05	13.7
1811282	Soil	25.2	11.5	0.26	42.2	0.062	<20	1.47	0.005	0.10	0.5	2.0	0.11	<0.02	24	0.3	<0.02	6.8
1811283	Soil	14.1	10.4	0.20	31.3	0.070	<20	1.08	0.004	0.07	1.1	1.6	0.10	<0.02	54	<0.1	0.02	7.7
1811284	Soil	31.0	12.1	0.32	51.0	0.092	<20	1.58	0.008	0.13	4.6	2.4	0.16	<0.02	50	<0.1	0.02	8.4
1811285	Soil	27.6	19.6	0.35	47.6	0.110	<20	1.74	0.005	0.14	0.8	2.8	0.20	0.02	39	0.1	0.10	10.3



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
1811286	Soil	2.11	12.31	16.50	77.0	152	10.4	4.6	211	2.22	3.5	2.1	0.5	11.2	10.5	0.15	0.22	1.49	35	0.08	0.047
1811287	Soil	17.52	48.53	46.26	160.3	330	26.5	8.7	313	3.53	12.5	1.7	<0.2	4.4	12.3	0.14	0.55	3.32	46	0.06	0.049
1811288	Soil	9.67	33.98	24.73	78.1	1650	13.7	4.8	195	3.18	11.6	1.3	<0.2	5.3	9.4	0.07	1.09	6.14	60	0.04	0.045
1811289	Soil	0.61	3.76	8.56	23.8	204	3.1	2.2	74	1.66	1.8	1.2	<0.2	7.3	6.6	0.14	0.11	0.56	28	0.12	0.075
1811290	Soil	0.48	3.92	6.97	17.6	201	3.6	1.6	78	0.84	0.6	1.0	<0.2	1.7	7.7	0.06	0.06	0.45	17	0.08	0.045
1811291	Soil	1.54	7.66	11.39	29.9	95	7.4	3.1	103	1.77	3.2	1.0	<0.2	1.8	10.6	0.04	0.25	0.81	35	0.04	0.036
1811292	Soil	2.05	36.86	42.26	21.2	1213	15.1	5.8	96	1.13	2.6	9.0	0.2	0.3	12.1	0.20	0.20	0.67	13	0.07	0.176
1811293	Soil	1.54	7.87	10.61	30.6	28	12.2	2.7	203	1.94	2.3	0.8	<0.2	3.2	6.5	0.03	0.23	0.77	49	0.03	0.048
1811294	Soil	1.17	7.53	17.94	40.0	319	7.7	3.7	154	2.49	3.2	1.5	<0.2	2.8	9.0	0.13	0.31	0.71	45	0.06	0.067
1811295	Soil	0.99	7.48	35.05	53.2	62	5.4	3.0	119	1.63	3.6	1.4	<0.2	4.6	8.6	0.12	0.21	2.01	29	0.10	0.045
1811296	Soil	1.13	7.35	14.31	42.1	212	4.6	2.6	133	1.37	1.4	1.6	0.8	1.3	13.8	0.12	0.11	0.91	27	0.06	0.046
1811297	Soil	0.69	7.67	6.22	45.3	78	5.6	3.3	128	1.68	1.8	0.8	<0.2	2.4	11.5	0.06	0.23	0.46	35	0.04	0.027
1811298	Soil	0.70	8.05	11.09	35.5	217	5.1	2.7	140	1.34	1.5	1.7	<0.2	0.3	12.7	0.17	0.15	0.88	27	0.04	0.039
1811299	Soil	0.82	7.03	11.34	45.2	424	6.2	3.6	201	1.76	2.1	2.1	<0.2	3.4	17.3	0.23	0.18	2.02	31	0.13	0.111
1811300	Soil	0.64	5.15	7.14	27.8	60	4.0	2.5	87	1.51	2.1	0.7	0.7	5.1	9.6	0.06	0.16	2.88	23	0.04	0.052
1811351	Soil	6.04	26.56	12.15	67.0	247	5.9	3.3	153	1.97	2.7	1.3	<0.2	8.6	9.8	0.12	0.16	2.18	35	0.05	0.045
1811352	Soil	0.71	2.86	7.58	20.7	125	1.6	1.1	52	0.71	1.0	0.5	<0.2	1.9	6.6	0.09	0.09	0.44	20	0.03	0.032
1811353	Soil	1.81	8.40	17.11	57.8	198	8.0	3.9	261	2.69	3.8	0.8	1.2	4.8	13.4	0.10	0.29	1.89	62	0.06	0.189
1811354	Soil	0.95	7.71	16.48	76.9	287	7.9	4.4	231	2.80	3.1	0.7	<0.2	7.4	11.9	0.22	0.31	1.19	57	0.06	0.085
1811355	Soil	0.77	5.15	14.99	41.8	185	4.5	2.4	83	1.33	1.6	0.6	<0.2	2.2	9.4	0.11	0.24	0.62	31	0.04	0.064
1811356	Soil	1.36	9.61	14.70	80.5	211	9.3	4.9	224	2.69	6.6	1.1	<0.2	3.6	12.6	0.18	0.32	1.26	51	0.06	0.059
1811357	Soil	1.72	6.73	19.57	97.6	63	9.0	4.4	191	2.07	2.6	0.7	<0.2	5.4	11.8	0.27	0.24	0.83	49	0.06	0.063
1811358	Soil	1.63	7.22	27.15	55.5	103	5.1	2.3	74	1.14	1.3	0.7	<0.2	0.6	10.1	0.46	0.21	0.52	30	0.04	0.025
1811359	Soil	2.02	17.73	17.97	72.4	306	9.9	2.6	70	2.39	1.4	0.9	<0.2	0.5	18.0	0.66	0.23	0.64	52	0.05	0.054
1811360	Soil	2.99	16.97	127.46	336.6	274	25.3	18.9	1078	5.09	50.6	1.6	<0.2	4.9	36.5	0.72	1.16	2.58	28	0.25	0.057
1811365	Soil	4.64	13.19	18.28	87.9	137	16.5	10.2	377	2.61	2.5	2.0	<0.2	2.6	15.3	0.07	0.16	1.39	50	0.10	0.043
1811366	Soil	5.55	13.94	28.77	55.7	246	10.3	5.9	402	2.27	2.5	3.7	2.5	0.3	17.7	0.39	0.34	1.12	42	0.09	0.109
1811367	Soil	3.21	12.97	40.15	84.1	278	13.5	6.4	288	2.48	2.1	2.2	0.3	0.8	15.3	0.26	0.20	0.89	44	0.07	0.067
1811368	Soil	1.88	13.86	28.02	71.6	233	13.0	6.1	199	2.39	2.2	2.0	<0.2	1.2	14.3	0.23	0.27	0.83	40	0.07	0.070
1811369	Soil	4.62	14.82	39.87	95.2	547	11.2	8.9	727	2.74	2.3	2.6	<0.2	0.6	13.2	0.33	0.20	1.58	55	0.08	0.100



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.02	5	0.1	0.02	0.1
1811286	Soil	34.9	12.2	0.37	66.0	0.086	<20	2.12	0.010	0.16	1.6	3.1	0.25	<0.02	38	0.1	0.02	7.6
1811287	Soil	25.4	33.2	0.60	68.8	0.089	<20	2.24	0.008	0.22	1.6	3.7	0.29	0.05	31	<0.1	0.06	10.0
1811288	Soil	26.4	32.4	0.37	45.6	0.099	<20	1.38	0.008	0.21	6.4	3.0	0.28	0.04	16	<0.1	0.27	13.4
1811289	Soil	26.0	8.5	0.14	29.7	0.046	<20	1.76	0.005	0.05	1.2	1.7	0.08	<0.02	24	0.3	<0.02	5.3
1811290	Soil	28.8	6.9	0.13	26.0	0.042	<20	0.82	0.007	0.06	0.7	0.8	0.08	<0.02	19	<0.1	<0.02	5.1
1811291	Soil	17.8	13.7	0.18	32.1	0.077	<20	0.85	0.004	0.08	1.2	1.2	0.12	0.02	25	<0.1	0.03	8.6
1811292	Soil	25.9	16.8	0.14	41.3	0.008	<20	2.49	0.006	0.06	0.3	0.3	0.12	0.20	148	0.9	0.03	3.2
1811293	Soil	23.6	21.9	0.14	29.1	0.090	<20	0.60	0.003	0.06	0.2	1.2	0.13	<0.02	24	<0.1	<0.02	9.2
1811294	Soil	20.8	16.9	0.27	48.3	0.094	<20	2.05	0.006	0.11	0.5	2.0	0.15	0.03	44	0.2	0.03	9.2
1811295	Soil	31.0	10.5	0.26	41.4	0.063	<20	1.36	0.006	0.10	3.4	1.9	0.17	<0.02	33	<0.1	0.04	7.1
1811296	Soil	31.6	9.3	0.27	48.1	0.061	<20	1.31	0.008	0.13	0.5	1.5	0.16	<0.02	39	<0.1	<0.02	7.9
1811297	Soil	23.0	12.8	0.22	48.8	0.092	<20	0.74	0.009	0.18	0.4	1.8	0.15	<0.02	24	<0.1	<0.02	8.2
1811298	Soil	25.4	10.2	0.22	52.6	0.034	<20	1.53	0.005	0.10	0.6	0.6	0.15	<0.02	25	<0.1	<0.02	7.3
1811299	Soil	24.4	11.6	0.22	43.8	0.051	<20	1.48	0.007	0.09	1.1	1.7	0.13	<0.02	31	<0.1	0.04	6.0
1811300	Soil	16.4	7.1	0.18	33.9	0.060	<20	0.71	0.005	0.07	0.9	1.4	0.08	<0.02	18	<0.1	0.05	5.7
1811351	Soil	23.9	9.5	0.30	42.2	0.084	<20	1.64	0.006	0.10	1.0	2.5	0.12	<0.02	24	<0.1	0.08	7.8
1811352	Soil	22.4	4.9	0.07	29.4	0.065	<20	0.59	0.007	0.04	0.3	0.7	0.08	<0.02	21	<0.1	<0.02	5.5
1811353	Soil	22.0	18.5	0.29	55.2	0.139	<20	1.17	0.007	0.13	1.0	2.1	0.17	<0.02	18	0.3	0.03	10.7
1811354	Soil	21.3	20.3	0.31	40.1	0.120	<20	1.58	0.007	0.11	1.0	2.2	0.11	<0.02	37	<0.1	0.04	11.3
1811355	Soil	20.7	11.7	0.10	50.5	0.095	<20	0.64	0.005	0.06	0.3	1.1	0.13	<0.02	25	<0.1	0.03	7.8
1811356	Soil	21.9	21.7	0.38	60.1	0.113	<20	1.54	0.006	0.16	0.5	2.7	0.16	<0.02	35	<0.1	0.02	11.7
1811357	Soil	22.0	20.0	0.29	53.9	0.158	<20	0.95	0.006	0.14	0.7	2.4	0.17	<0.02	7	<0.1	0.03	11.0
1811358	Soil	22.3	12.6	0.13	41.5	0.053	<20	0.65	0.007	0.06	0.2	0.8	0.07	<0.02	6	<0.1	<0.02	6.4
1811359	Soil	22.7	16.3	0.15	120.9	0.055	<20	1.05	0.006	0.11	0.5	1.3	0.11	0.04	26	<0.1	0.05	10.1
1811360	Soil	33.0	25.8	0.51	44.2	0.011	<20	1.88	0.004	0.16	2.6	3.4	0.17	0.02	8	<0.1	0.11	7.0
1811365	Soil	23.7	29.5	0.66	73.4	0.128	<20	1.79	0.009	0.17	0.5	3.5	0.20	0.04	9	<0.1	<0.02	9.6
1811366	Soil	20.7	18.2	0.25	57.4	0.038	<20	1.20	0.007	0.13	1.8	0.7	0.16	0.09	32	0.1	<0.02	7.7
1811367	Soil	20.7	36.1	0.49	55.9	0.072	<20	1.60	0.008	0.13	0.3	1.8	0.16	0.06	20	<0.1	0.03	9.6
1811368	Soil	21.4	23.7	0.38	60.7	0.074	<20	1.31	0.009	0.16	1.6	1.8	0.14	0.04	29	<0.1	0.03	7.6
1811369	Soil	18.7	18.1	0.41	68.8	0.068	<20	1.67	0.006	0.14	0.6	1.3	0.21	0.06	26	0.3	0.05	10.0



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	Method Analyte Unit MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
1811370	Soil	0.48	2.92	11.43	23.9	89	3.7	1.8	69	0.92	0.8	0.9	<0.2	4.4	10.6	0.03	0.07	1.58	22	0.04	0.028
1811371	Soil	0.95	5.73	12.15	43.9	181	6.5	3.1	131	2.14	2.6	0.9	<0.2	7.4	11.3	0.06	0.16	2.88	38	0.05	0.068
1811372	Soil	4.22	15.57	22.16	82.5	162	9.5	4.7	233	2.60	3.9	2.0	3.1	4.5	11.9	0.11	0.23	3.36	45	0.08	0.106
1811373	Soil	2.83	11.77	18.80	98.7	322	11.1	5.0	197	2.64	2.9	1.0	<0.2	1.5	11.5	0.28	0.28	1.09	44	0.07	0.148
1811374	Soil	11.40	43.32	55.48	135.9	588	13.9	12.2	725	3.30	4.7	6.6	3.2	0.6	13.9	1.57	0.41	1.72	43	0.07	0.138
1811375	Soil	1.37	9.19	14.94	111.1	241	10.4	5.0	226	2.88	3.8	0.9	0.4	1.0	12.8	0.32	0.34	0.88	52	0.08	0.074
1811376	Soil	4.90	11.31	27.41	158.8	167	13.2	5.5	220	3.57	5.8	1.0	1.2	2.8	11.5	0.46	0.43	2.00	67	0.04	0.049
1811377	Soil	4.62	9.28	41.84	152.7	88	13.5	5.8	165	3.63	65.5	1.1	1.1	5.1	29.7	0.49	1.17	1.38	43	0.14	0.038
1811378	Soil	3.52	8.10	43.42	85.0	122	8.4	3.6	128	2.07	19.5	1.0	1.3	2.8	21.6	0.46	1.07	0.86	41	0.06	0.026
1811379	Soil	0.89	3.55	16.18	37.0	221	3.9	1.5	77	0.82	1.5	0.8	<0.2	1.8	10.0	0.17	0.13	0.47	19	0.03	0.029
1811380	Soil	1.60	9.28	25.06	203.7	1047	15.3	5.9	172	2.83	4.2	1.0	0.5	2.4	15.7	0.31	0.24	3.20	47	0.05	0.042
1811381	Soil	6.00	39.80	119.76	537.1	1572	17.4	10.0	1502	3.64	61.2	6.6	<0.2	1.5	52.7	2.65	0.64	5.14	36	0.68	0.069
1811382	Soil	7.19	26.42	27.71	286.0	108	9.6	5.5	1114	1.24	6.3	2.6	2.2	1.5	54.8	7.04	0.28	1.21	23	0.29	0.045
1811384	Soil	1.47	7.81	16.13	116.5	183	7.8	3.9	172	1.50	1.5	1.9	<0.2	1.5	23.2	1.13	0.16	0.53	33	0.10	0.034
1811385	Soil	2.62	8.87	16.51	109.2	86	7.6	3.7	109	1.52	2.6	1.2	0.6	0.6	20.9	1.65	0.21	0.54	31	0.05	0.046
1811387	Soil	6.39	31.43	48.34	249.1	491	18.6	12.0	1161	2.09	3.0	7.8	<0.2	0.6	39.0	0.93	0.30	1.18	29	0.22	0.128
1811390	Soil	6.15	60.19	388.14	481.0	1281	29.6	15.2	1970	3.46	15.0	10.3	1.3	2.2	31.2	6.23	0.45	1.87	44	0.15	0.137
1811391	Soil	0.89	9.55	17.42	41.3	377	5.4	1.9	94	1.30	2.5	1.1	1.8	0.2	14.5	0.41	0.22	1.85	30	0.08	0.069
1811392	Soil	0.70	5.64	13.97	53.9	230	4.4	2.2	83	1.24	1.5	0.7	<0.2	1.8	10.0	0.42	0.22	0.79	28	0.04	0.036
1811393	Soil	0.81	8.82	12.66	72.8	151	7.7	3.8	212	1.49	1.2	2.9	0.9	0.8	20.4	0.21	0.10	0.95	25	0.15	0.046
1811394	Soil	0.75	6.31	5.27	37.1	92	4.9	2.2	128	0.86	0.9	1.5	<0.2	0.5	11.4	0.13	0.09	0.66	16	0.05	0.034
1811395	Soil	1.22	7.21	13.30	40.0	127	6.5	3.3	113	2.16	2.7	1.7	<0.2	7.0	12.1	0.09	0.18	1.76	38	0.04	0.032
1811396	Soil	0.94	7.56	7.38	44.8	74	5.4	4.4	261	1.32	1.2	1.3	<0.2	1.4	17.1	0.11	0.17	3.02	27	0.11	0.029
1811397	Soil	1.79	15.89	16.05	106.9	278	17.9	6.7	267	2.30	1.2	4.6	0.4	0.9	22.8	0.15	0.11	0.87	42	0.21	0.080
1811398	Soil	2.40	22.14	23.73	93.2	178	17.2	9.5	383	3.07	4.9	6.1	<0.2	2.0	19.5	0.31	0.27	1.39	45	0.10	0.080
1811399	Soil	0.91	7.51	8.35	45.3	117	9.3	4.0	173	1.75	1.2	1.9	<0.2	3.9	13.2	0.09	0.10	0.59	29	0.08	0.023
1811400	Soil	2.86	49.29	38.58	62.3	510	19.5	8.6	271	2.38	4.1	15.5	1.5	0.3	15.2	0.41	0.25	1.47	36	0.09	0.097



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Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.01	0.01	0.01	0.1	0.1	0.02	0.02	0.1
1811370	Soil	21.4	9.2	0.20	27.8	0.078	<20	0.83	0.006	0.07	0.5	1.5	0.12	<0.02	8	0.1	<0.02	7.0
1811371	Soil	22.8	14.0	0.27	39.1	0.085	<20	1.08	0.005	0.08	1.3	1.8	0.10	<0.02	23	<0.1	<0.02	7.9
1811372	Soil	23.4	15.4	0.37	59.8	0.089	<20	1.94	0.006	0.13	1.5	2.7	0.17	<0.02	26	<0.1	0.03	9.4
1811373	Soil	20.8	20.3	0.34	48.4	0.086	<20	1.36	0.008	0.13	2.1	1.8	0.14	0.02	16	0.1	<0.02	8.6
1811374	Soil	34.9	19.1	0.30	117.3	0.036	<20	2.45	0.008	0.14	1.8	1.0	0.14	0.05	63	<0.1	<0.02	9.7
1811375	Soil	18.2	19.3	0.40	57.6	0.081	<20	1.60	0.006	0.13	0.6	1.6	0.14	0.03	37	<0.1	<0.02	9.1
1811376	Soil	19.6	24.0	0.36	80.5	0.112	<20	1.56	0.006	0.17	0.7	2.7	0.18	0.02	23	<0.1	<0.02	12.4
1811377	Soil	26.6	20.3	0.33	101.6	0.049	<20	1.30	0.006	0.12	1.1	2.2	0.19	<0.02	23	0.2	0.04	8.2
1811378	Soil	28.3	12.3	0.17	52.8	0.060	<20	0.73	0.005	0.10	1.0	1.2	0.13	<0.02	8	<0.1	<0.02	7.8
1811379	Soil	25.9	7.7	0.11	38.8	0.042	<20	0.57	0.005	0.06	0.3	0.8	0.10	<0.02	14	<0.1	<0.02	6.1
1811380	Soil	21.5	27.0	0.41	60.9	0.083	<20	1.37	0.006	0.15	0.4	2.5	0.13	0.02	18	<0.1	<0.02	8.3
1811381	Soil	26.7	21.1	0.29	47.9	0.022	<20	1.42	0.005	0.12	23.0	2.0	0.19	0.04	24	<0.1	0.07	7.3
1811382	Soil	24.3	11.7	0.20	86.3	0.058	<20	0.73	0.008	0.08	0.4	2.1	0.10	0.02	6	<0.1	<0.02	4.9
1811384	Soil	26.0	13.4	0.25	62.4	0.068	<20	0.91	0.007	0.11	0.2	1.4	0.12	<0.02	14	<0.1	<0.02	7.4
1811385	Soil	23.4	12.2	0.20	53.0	0.032	<20	0.79	0.007	0.12	0.3	0.9	0.10	0.02	19	0.1	<0.02	6.1
1811387	Soil	38.3	13.9	0.33	96.7	0.028	<20	1.78	0.013	0.13	0.9	1.0	0.14	0.09	21	0.2	0.03	6.8
1811390	Soil	49.0	23.2	0.47	189.0	0.048	<20	2.65	0.008	0.19	0.6	2.4	0.26	0.04	48	0.1	0.03	9.5
1811391	Soil	20.8	11.0	0.09	100.7	0.040	<20	0.81	0.007	0.07	1.2	0.5	0.14	0.03	35	<0.1	<0.02	7.9
1811392	Soil	17.6	9.5	0.08	48.6	0.058	<20	0.49	0.006	0.05	0.5	0.9	0.09	<0.02	24	<0.1	<0.02	5.9
1811393	Soil	24.0	8.9	0.30	47.3	0.049	<20	1.17	0.009	0.09	1.1	1.2	0.10	0.04	16	<0.1	<0.02	6.1
1811394	Soil	15.0	6.6	0.17	36.2	0.033	<20	0.61	0.006	0.07	0.3	0.7	0.07	0.03	10	<0.1	<0.02	3.8
1811395	Soil	19.4	12.4	0.25	40.7	0.108	<20	0.97	0.007	0.10	0.7	2.0	0.08	<0.02	20	<0.1	0.03	8.5
1811396	Soil	16.6	10.0	0.26	42.9	0.064	<20	0.70	0.008	0.15	0.3	1.4	0.12	0.02	11	<0.1	0.02	5.5
1811397	Soil	21.9	26.5	0.59	73.7	0.076	<20	1.98	0.009	0.13	0.8	2.4	0.16	0.05	22	<0.1	<0.02	9.4
1811398	Soil	32.2	19.3	0.46	89.9	0.063	<20	2.64	0.007	0.17	0.6	2.4	0.20	0.07	32	0.2	<0.02	9.3
1811399	Soil	27.4	10.4	0.31	44.4	0.070	<20	1.20	0.009	0.09	0.6	2.0	0.12	0.02	10	<0.1	0.02	5.7
1811400	Soil	26.6	22.8	0.33	51.7	0.017	<20	2.55	0.006	0.07	0.4	0.5	0.25	0.09	58	0.7	0.02	7.6



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Report Date: July 16, 2020

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QUALITY CONTROL REPORT

WHI20000083.1

Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	
Pulp Duplicates																					
1811269	Soil	0.94	8.09	13.58	100.8	138	7.4	3.7	191	2.29	8.1	0.9	0.4	7.1	27.2	0.71	0.30	1.04	43	0.07	0.019
REP 1811269	QC	1.01	8.31	13.95	107.2	154	7.4	3.5	196	2.36	8.4	1.1	0.4	7.3	29.1	0.78	0.32	1.10	44	0.07	0.021
1811357	Soil	1.72	6.73	19.57	97.6	63	9.0	4.4	191	2.07	2.6	0.7	<0.2	5.4	11.8	0.27	0.24	0.83	49	0.06	0.063
REP 1811357	QC	1.65	6.26	19.35	102.5	51	8.5	4.4	186	2.07	2.1	0.6	0.5	4.8	12.1	0.30	0.29	0.77	49	0.06	0.062
1811392	Soil	0.70	5.64	13.97	53.9	230	4.4	2.2	83	1.24	1.5	0.7	<0.2	1.8	10.0	0.42	0.22	0.79	28	0.04	0.036
REP 1811392	QC	0.74	5.85	12.72	53.4	213	4.4	2.0	83	1.20	1.3	0.6	<0.2	1.8	10.7	0.45	0.20	0.77	27	0.04	0.038
Reference Materials																					
STD BVGEO01	Standard	10.18	4494.28	173.35	1757.4	2576	163.1	24.4	708	3.74	128.0	3.4	229.8	13.4	55.4	6.56	2.77	24.61	74	1.32	0.074
STD DS11	Standard	14.86	151.36	139.68	335.5	1647	77.5	13.5	1023	3.09	43.1	2.5	57.9	7.7	70.1	2.45	7.67	11.78	48	1.04	0.076
STD DS11	Standard	14.31	147.81	132.62	352.6	1646	80.0	13.8	1015	3.19	47.5	2.4	45.3	7.4	66.1	2.42	8.36	11.69	50	1.05	0.072
STD OREAS262	Standard	0.60	120.26	57.20	159.8	480	64.4	26.8	542	3.27	37.3	1.2	71.7	8.9	34.9	0.63	3.43	1.05	21	2.91	0.042
STD OREAS262	Standard	0.66	114.94	57.86	152.7	476	66.8	28.5	558	3.44	39.3	1.2	60.1	9.0	36.4	0.70	3.38	1.02	22	3.00	0.043
STD OREAS262	Standard	0.63	116.72	56.01	146.8	457	65.1	27.8	536	3.36	37.3	1.2	56.7	9.0	37.1	0.66	2.67	1.03	22	2.95	0.039
STD DS11 Expected		13.9	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
STD BVGEO01 Expected		10.8	4415	187	1741	2530	163	25	733	3.7	121	3.77	219	14.4	55	6.5	2.2	25.6	73	1.3219	0.0727
STD OREAS262 Expected		0.68	118	56	154	450	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	2.98	0.04
BLK	Blank	<0.01	<0.01	0.02	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.03	0.02	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001



QUALITY CONTROL REPORT

WHI20000083.1

Method	Analyte	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1
Pulp Duplicates																		
1811269	Soil	24.9	13.6	0.35	46.2	0.081	<20	1.25	0.007	0.12	0.9	2.6	0.14	<0.02	15	0.1	0.03	9.8
REP 1811269	QC	24.5	13.9	0.36	42.9	0.083	<20	1.27	0.007	0.12	0.9	2.7	0.14	<0.02	15	<0.1	0.04	10.1
1811357	Soil	22.0	20.0	0.29	53.9	0.158	<20	0.95	0.006	0.14	0.7	2.4	0.17	<0.02	7	<0.1	0.03	11.0
REP 1811357	QC	19.9	17.5	0.29	53.8	0.157	<20	0.94	0.006	0.13	0.6	2.2	0.16	<0.02	11	<0.1	<0.02	11.1
1811392	Soil	17.6	9.5	0.08	48.6	0.058	<20	0.49	0.006	0.05	0.5	0.9	0.09	<0.02	24	<0.1	<0.02	5.9
REP 1811392	QC	17.2	9.3	0.08	48.2	0.056	<20	0.48	0.005	0.05	0.6	0.8	0.09	<0.02	24	<0.1	<0.02	5.3
Reference Materials																		
STD BVGEO01	Standard	26.7	179.6	1.33	329.0	0.248	<20	2.35	0.201	0.92	3.1	6.1	0.62	0.66	98	4.8	1.07	7.4
STD DS11	Standard	18.3	57.4	0.82	435.1	0.092	<20	1.15	0.075	0.40	2.6	3.4	5.06	0.29	293	2.2	4.96	5.1
STD DS11	Standard	18.8	58.5	0.85	433.3	0.095	<20	1.15	0.074	0.39	2.6	3.3	4.87	0.28	252	2.0	4.58	5.1
STD OREAS262	Standard	16.3	41.3	1.19	247.6	0.003	<20	1.30	0.070	0.31	0.1	3.4	0.49	0.27	158	0.4	0.26	4.3
STD OREAS262	Standard	15.6	42.0	1.23	254.7	0.003	<20	1.23	0.074	0.30	0.1	3.6	0.44	0.27	185	0.3	0.23	3.7
STD OREAS262	Standard	17.2	42.2	1.21	256.5	0.003	<20	1.31	0.072	0.32	0.1	3.5	0.46	0.26	189	0.4	0.26	4.0
STD DS11 Expected		18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	3.1	4.9	0.2835	260	2.2	4.56	4.7
STD BVGEO01 Expected		25.9	171	1.2963	340	0.233		2.347	0.1924	0.89	3.5	5.97	0.62	0.6655	100	4.84	1.02	7.37
STD OREAS262 Expected		15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	3.24	0.47	0.269	170	0.4	0.23	3.9
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	0.03	<0.1