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Assessment Report
Red Lake North Property, Coli Lake Unpatented Claim
2017 Summer Soil Sampling Program
Rubicon Minerals Corp.
July 06, 2017 to September 20, 2017

Coli Lake Township Area
Red Lake Mining District
Northwestern Ontario

NTS: 52N/04
NAD83 / UTM zone 15N

Prepared for

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By
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September 20, 2017

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1.0 SUMMARY

Rubicon Minerals Corporation completed an oriented soil geochemical sampling program from **6 July 2017 to 21 July 2017** on KRL 1185065 unpatented mining claim comprised of 16 units, covering an area of 256 hectares, located in Coli Lake Township (G-1759) within the company regional exploration properties.

The program was designated as a reconnaissance survey, with a sample density sufficient to test for anomalous gold within soil B-horizon and evaluate future exploration methodology to target potential gold mineralization within the area.

The survey yielded positive results and recommendations for follow-up programs and methodology were made.

2.0 INTRODUCTION

This report summarizes exploration work performed by Rubicon Minerals Corporation on the KRL 1185065 unpatented mineral claims located within Red Lake North property, submitted to the Ministry of Northern Development and Mines for assessment credit. Expenditures of $21,720 are being submitted for assessment credit incurred for the collection, processing, interpretation and reporting of the geochemical soil sampling program between July 2017 and October 2017.

A total of 140 soil samples were collected from **6 July 2017 to 21 July 2017**, on a 4.1 km survey line on a grid spaced 300 m within claim KRL 1185065 boundary. All sample were collected from soil B- horizon and submitted to Activation Laboratories Ltd. and analyzed for Au and other trace elements.

All work was supervised by Mark Ross P.Geo, Chief Geologist.

3.0 PROPERTY DESCRIPTION, LOCATION AND ACCESS

Claim KRL 1185065 totaling 16 units is part of Rubicon Minerals Corporation, regional properties located within Coli Lake Township (G-1759), Red Lake Mining Division, Ontario. **(Table 1)**
The property is located 25 km northeast of Town of Red Lake and Balmertown, centered at 463690; 568062 UTM and lies within N.T.S. 52N/05.

Red Lake is in northwestern Ontario, 140 Km north-northeast of Kenora and 500 Km northeast of Winnipeg, Manitoba, the nearest major city.

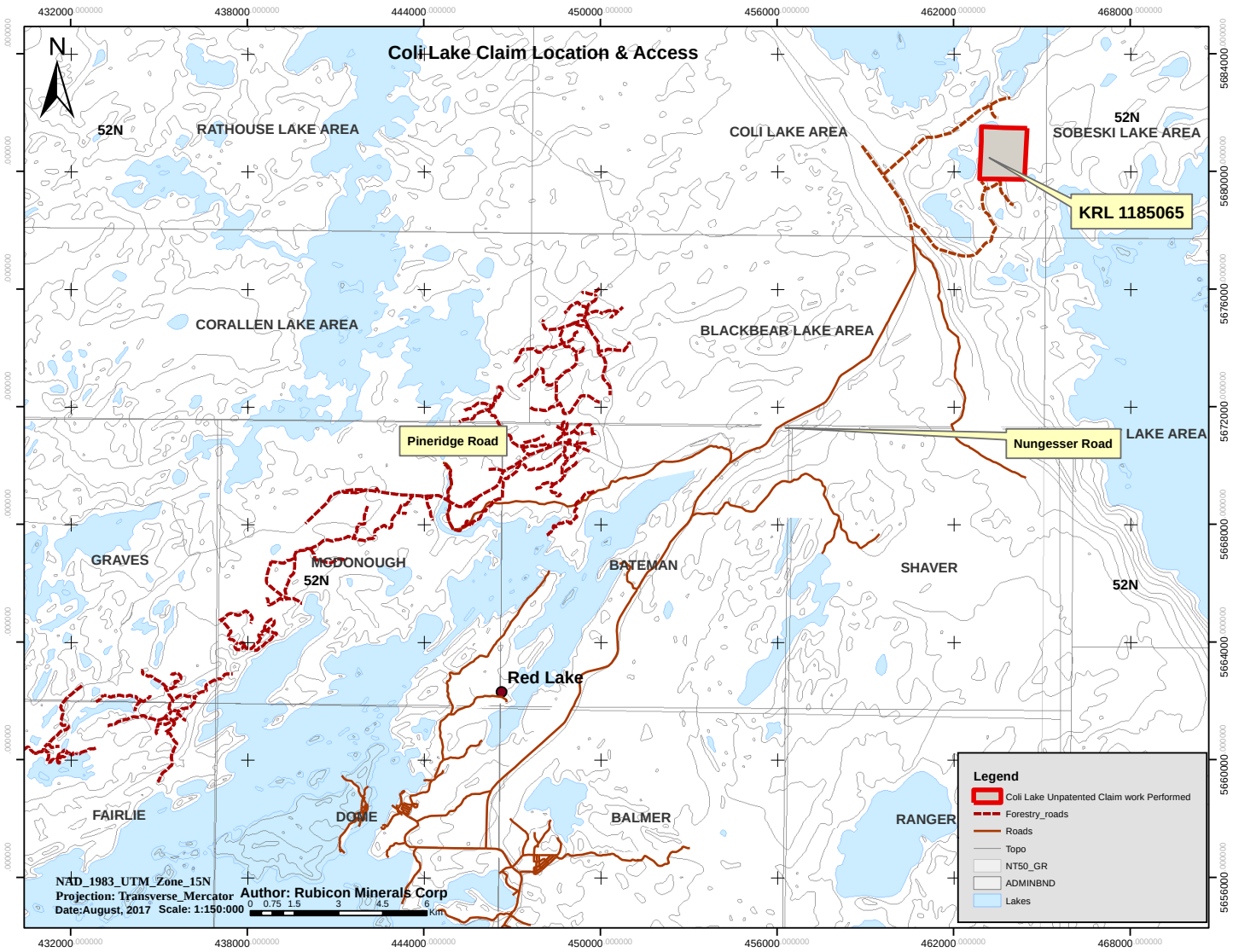
The region is serviced by the all-weather Highway 105, which departs north from the Trans-Canada Highway 17 at Vermillion Bay, Ontario, and by scheduled airline service from Kenora, Winnipeg and Thunder Bay.

The property is easily accessible by the northeast trending all weather paved Nungesser Lake road and Sidace Lake gravel road. **(Figure1&2)**

Table 1. Mining claims pertinent to the report list:

ClaimID	Township_Area	Recorded_Owner	Recording_Date	Claim_Due_Date	Units	Status_MNDM	Work_Required	Client_Number
KRL 1185065	COLI LAKE (G-1759)	RUBICON MINERALS CORPORATION	2/22/1999	22-Feb-18	16	Active	6400	301254

Figure 1: Mining Claim General Location



4.0 PHYSIOGRAPHY

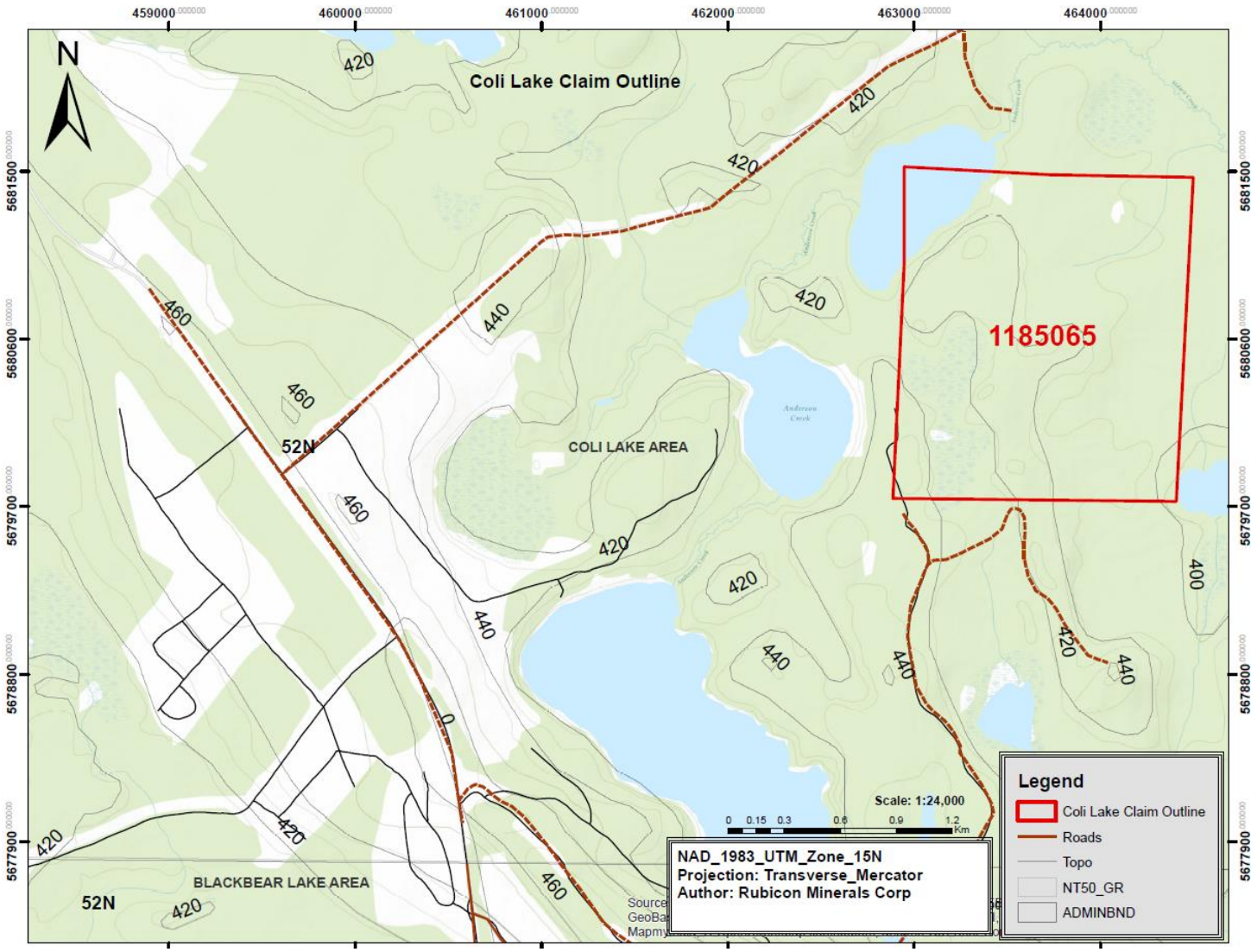
The physiography of the area is characterized by flat to gently undulating terrain. The topography is characteristic of the southern part of the Canadian Shield with low rolling glacial hills and intervening lowlands with lakes and muskeg.

The property is mature boreal forest consisting mostly of black spruce.

The property is covered by unconsolidated till and glacio–fluvial and glacio-lacustrine sediments. There is a limited outcrop exposure due to the extensive glacial overburden.

The major glacial and topographic feature of the area is northeast trending.

Figure 2: Mining Claim Outline



5.0 EXPLORATION HISTORY

Airborne magnetic survey performed by Dome Exploration in 1978 followed by diamond drilling to test an EM anomaly on KRL 496214 (known today as KRL 1185065). Hole 122D-5 it was approx. 352 m and drilled between 18 and 23, March 1979.

In June 2000, SPECTREM Air, on behalf of AngloGold – Rubicon Minerals Joint Venture, carried out a fixed wing time-domain electromagnetic survey over an extensive area including Coli Lake claim KRL 1185065.

Between November 2003 and December, 2013, Fugro Airborne Services on behalf of Rubicon Minerals Corporation, carried out a helicopter borne magnetic –electromagnetic survey. Total coverage of the survey area amounted approx. 242.1 Km, from which some was on the claims pertinent to this report.

Between March, 2004 and May, 2004 Rubicon Minerals Corporation conducted a drilling program on claim KRL 1185065 totaling 642.20 meters known as hole SD-04-03 and SD-04-04.

6.0 REGIONAL GEOLOGY

The Red Lake greenstone belt ("RLGB") is in the western portion of the Uchi Subprovince of the Canadian Shield, consisting of an E-W trending sequence of volcanic and sedimentary rocks, with syn-volcanic intrusives that span a period of 300 million years. **(Figure 3)**

The Red Lake District is underlain by Mesoarchean rocks that have been subdivided into three general assemblages (Sandborn-Barrie et al., 1999): Balmer, Ball and Bruce Channel. Neoarchean strata of the 2.75 - 2.73 Ga. Confederation assemblage overlie the older assemblages.

Both Meso - and Neoarchean sequences are intruded by diorite to granodiorite stocks such as Dome stock which has been dated at 2718 +/-1Ma.

Balmer assemblage rocks host all the major god mines in the camp, and consists of mafic to ultramafic flows (including komatiites) and intrusives, minor felsic and interflow sedimentary rocks types.

Ball assemblage rocks underlie much of the western part of the district and consist of ultramafic to mafic flows, intermediate volcanoclastics and massive to spherulitic rhyolites.

Chemical sedimentary rocks (iron formations) also characterize Ball assemblage rocks and include stromatolites (Hofmann et al., 1985)

Bruce Channel assemblage rocks are confined to the eastern part of the belt and comprise intermediate volcanoclastics and clastic rocks.

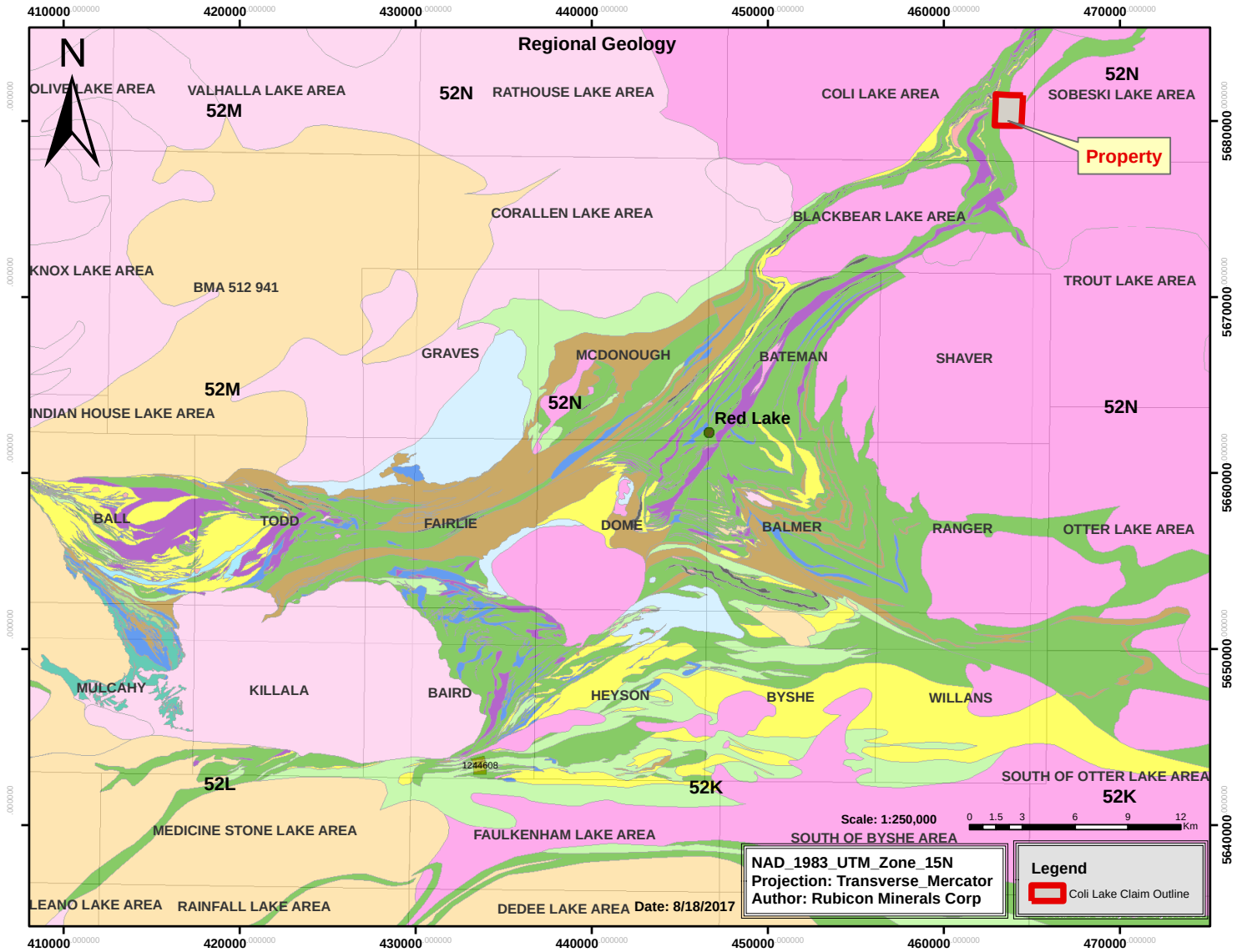
Confederation rocks comprise of intermediate to felsic flows, volcanoclastic and metasedimentary rocks. Granitoid rocks were intruded in three main episodes:

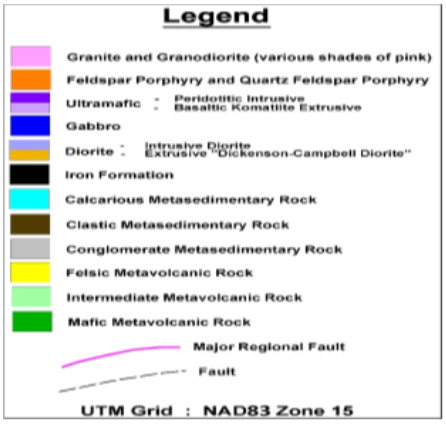
1. The 2734 +/- 2Ma Douglas Lake pluton, the 2731 +/- 3 Ma (Little Vermilion Lake batholith) and 2729 +/- 1.5 Ma Red Crest stock.

2. The 2717 +/- 2 Ma Hammell Lake Pluton, The McKenzie Island stock (2720 +/- 2Ma), the Dome stock 2718 +/-1Ma), the Abino Granodiorite (2720 +7/-5 Ma) and late QFP dykes at the Campbell Mine, dated at 2714 +/-4 Ma.

3. Intrusion of the Killala K-feldspar megacrystic Killala – Baird granodiorite at 2704 +/- 1.5 Ma, the 2699 Walsh Lake pluton and the 2699 +/-4 Ma dyke at Madsen Mine.

Fig. 3 Regional Geology

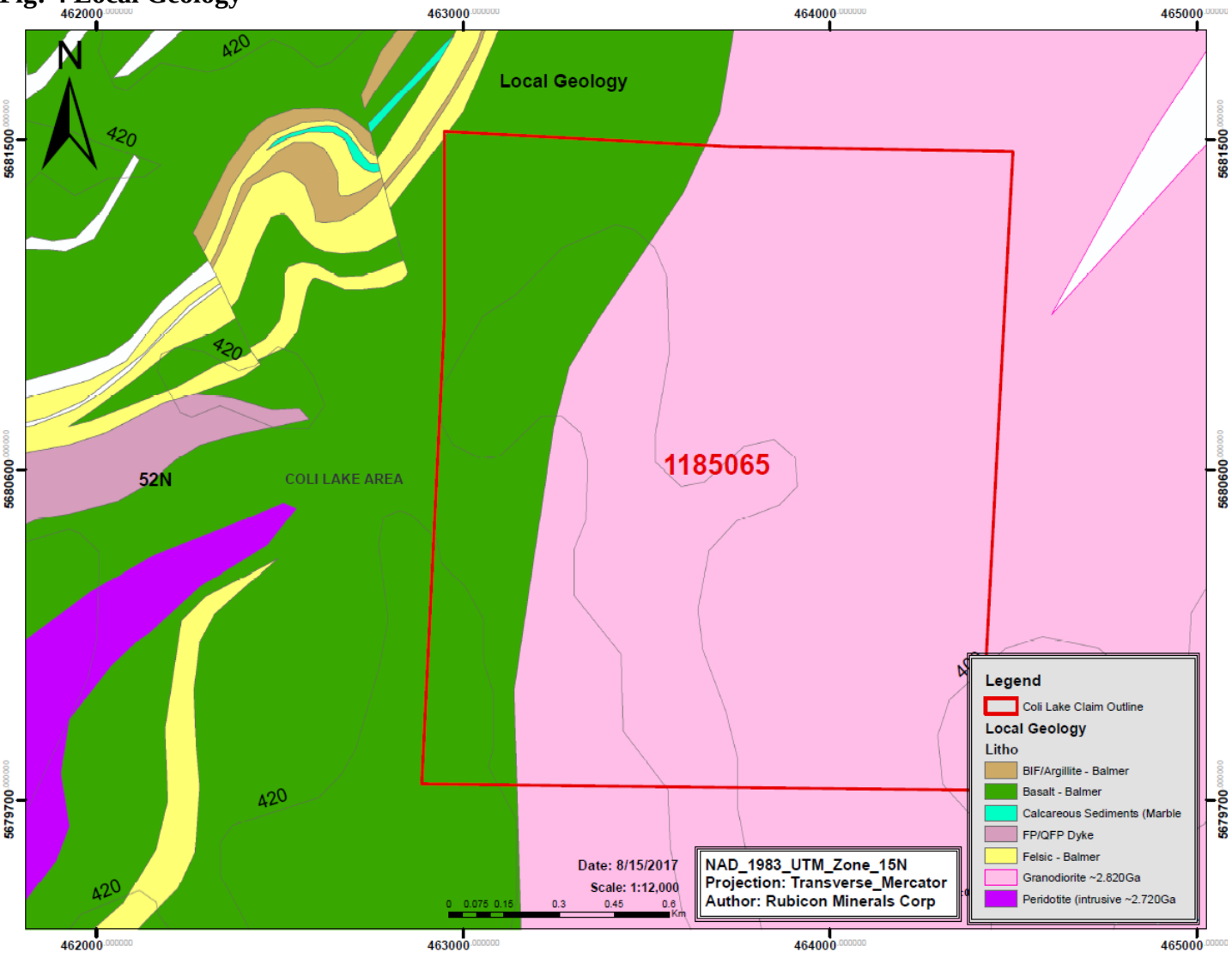




7.0 LOCAL GEOLOGY

The Property pertinent to this report is located at the east end of the Red Lake greenstone belt ("RLGB") between the Trout Lake Batholith to the east- southeast and the Little Vermilion Batholith to the northwest. The property is underlain by a northeast trending belt of mafic to felsic metavolcanics intercalated with minor ultramafics, sedimentary units and iron formation rocks. All units have been intruded, deformed and metamorphosed by granitic batholiths and related feldspar and quartz-feldspar porphyry dykes. The dominant lithologies within the property are granodiorite and basalt likely of Balmer age**. (Figure 4)**

Fig: 4 Local Geology



8.0 EXPLORATION WORK PREFORMED, RESULTS AND RECOMMENDATIONS

The work conducted on claim KRL 1185065 was an oriented geochemical soil sampling program.

A total of 4.1 Km survey line consisting of Line A, B, C, D, E, F, G and H, spaced at 300 m had been planned prior to the actual sampling. The survey lines are oriented east –west covering all rocks units presented within the property. The survey lines are generally between 270 m to 500 m in length.
Survey Line D of approx. 1,450 m extended into the adjacent Trout Lake Batholith.

A total of 140 soil samples were collected from 6 July 2017 to 21 July 2017 within the B Horizon, spaced along the survey lines at approx. 30 m intervals. Soil samples collected within each line: 10 samples (Line A), 10 Samples (Line B), 14 sample (Line C), 50 samples (Line D), 14 samples (Line E), 18 samples (Line F), 14 samples (Line G) and 10 samples (Line H). **(Figure 5**)

Sample material was obtained by digging with a shovel into the B-horizon and collecting part of the soil. Coarse rocks fragments and roots were rejected before putting the material in the sample bags.

Average sample depth is in the order of 6 to 14 inches and the material collected (1.5-3kg) generally consisted of sandy clay loam to fine, medium and coarse medium sand.

Sample lists, specifying the color, the description and the depth at which the sample has been taken has been added to the report below. **(Table 2)**

All samples were properly labelled and shipped to Activation Laboratory in Thunder Bay for analysis using FA-AA analysis method for Au (ppb) and AR-ICP for others trace elements (ppm/%).

Samples were plotted and results displayed. **(Figure 6)**

Fig. 5 Claim work performed, survey lines and sampling station.

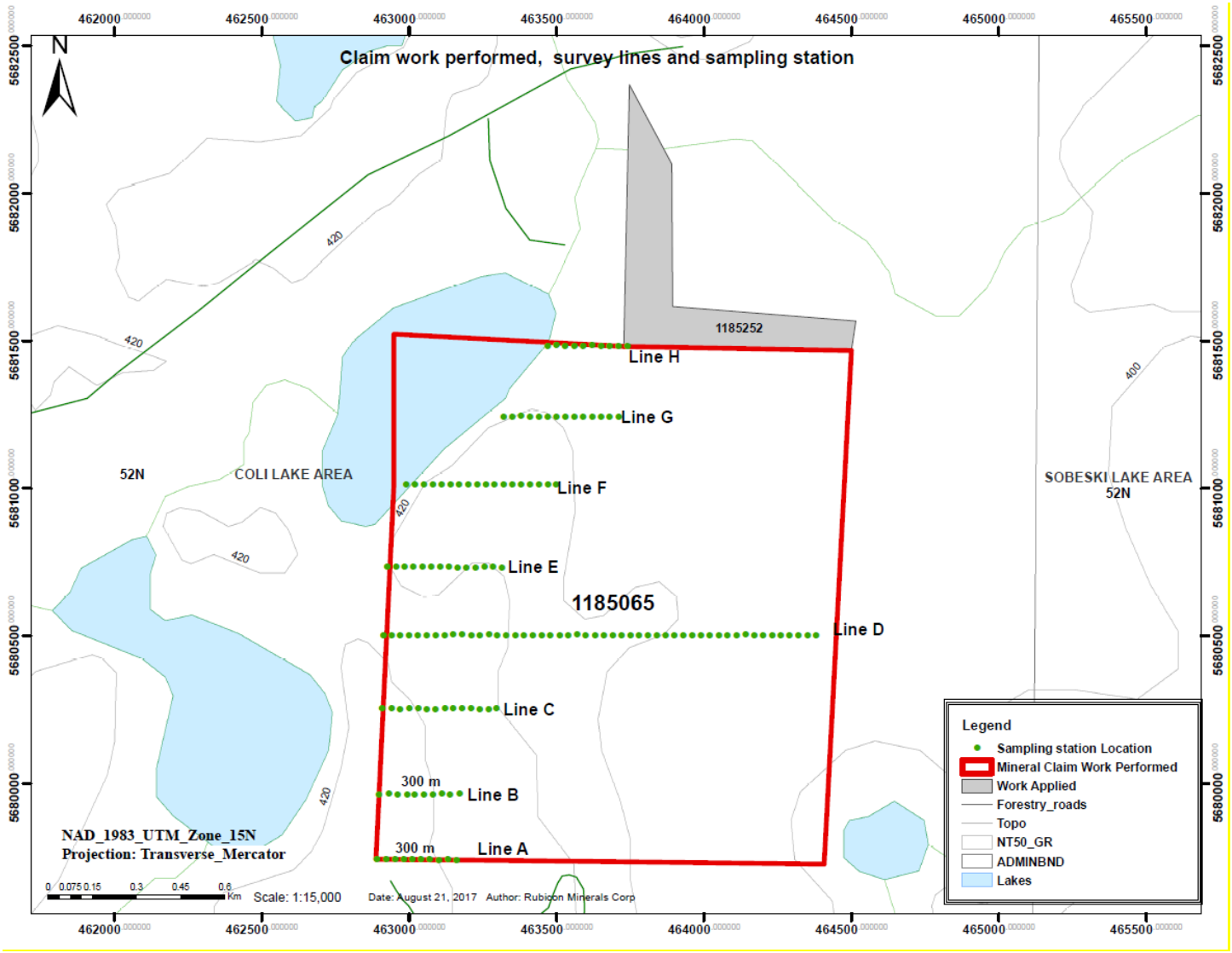


Table 2: Sample Id, Location (Northing; Easting), samples description and assay results Au (ppb)

Sampling Station	Survey Line	Sample ID	Easting	Northing	Depth (Inches)	Soil Horizo	Colour	Description	Au (ppb)
1	A	PED41501	462890	5679747	6	B	Light	Medium grained sand;	6
2	A	PED41502	462922	5679747	6	B	Light	Medium grained sand;	< 5
3	A	PED41503	462953	5679745	8	B	Light	Fine-grained Sand; Si & Fe-Rich	< 5
4	A	PED41504	462982	5679747	8	B	Light	Fine-grained Sand; Si & Fe-Rich	< 5
5	A	PED41505	463010	5679744	8	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
6	A	PED41506	463039	5679744	10	B	Light	Fine-grained Sand; Si & Fe-Rich	< 5
7	A	PED41507	463069	5679746	12	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
8	A	PED41508	463101	5679743	14	B	Medium Brown/Tan	Medium-grained Sand; Fe-Rich	26
9	A	PED41509	463132	5679744	14	B	Medium Brown/Tan	Medium-grained Sand; Fe-Rich	< 5

10	B	PED41510	463160	5679742	12	B	Medium Brown/Grey	Fine-grained Sand; Si & Fe-Rich	< 5
11	B	PED41511	462897	5679965	8	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
12	B	PED41512	462931	5679966	8	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	9
13	B	PED41513	462961	5679965	10	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
14	B	PED41514	462993	5679964	10	B	Medium Brown	Fine Grained Sand; trace organics	< 5
15	B	PED41515	463019	5679965	12	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
16	B	PED41516	463050	5679965	12	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
17	B	PED41517	463081	5679964	14	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
18	B	PED41518	463111	5679966	14	B	Medium Brown	Fine Grained Sand	< 5
19	B	PED41519	463138	5679964	12	B	Light	Medium grained sand;	< 5
20	B	PED41520	463171	5679966	12	B	Medium Brown	Fine Grained Sand	< 5
21	C	PED41521	462908	5680255	6	B	Light	Fine-grained Sand; Si & Fe-Rich	< 5
22	C	PED41522	462941	5680255	6	B	Medium	Fine-grained Sand; Si & Fe-Rich	< 5
23	C	PED41523	462970	5680254	8	B	Light	Medium grained sand;	< 5
24	C	PED41524	463001	5680256	8	B	Light grey/Tan	Medium grained sand;	< 5
25	C	PED41525	463031	5680255	10	B	Light	Medium grained sand;	< 5
26	C	PED41526	463059	5680254	10	B	Medium Brown	Medium grained sand;	< 5
27	C	PED41527	463089	5680254	12	B	Light	Medium grained sand;	< 5
28	C	PED41528	463121	5680256	12	B	Light	Medium grained sand;	< 5
29	C	PED41529	463149	5680255	10	B	Light/Medium	Medium grained sand;	< 5
30	C	PED41530	463179	5680256	10	B	Medium Brown	Fine Grained Sand	< 5
31	C	PED41531	463210	5680256	12	B	Light	Medium grained sand;	< 5
32	C	PED41532	463239	5680254	8	B	Light grey/Tan	Medium grained sand;	< 5
33	C	PED41533	463270	5680254	8	B	Light grey/Tan	Fine-grained Sand; Si & Fe-Rich	< 5
34	C	PED41534	463296	5680256	6	B	Light grey/Tan	Fine-grained Sand; Si & Fe-Rich	< 5
35	D	PED41535	462912	5680505	10	B	Light/Medium	Sandy Loam; trace organics	< 5
36	D	PED41536	462940	5680505	10	B	Tan/Light Brown	Medium Grained Sand;	< 5
37	D	PED41537	462969	5680504	10	B	Medium Tan/Brown	Fine-grained Sand; Si & Fe-Rich	7
38	D	PED41538	463000	5680505	12	B	Medium Tan/Grey	Fine-grained Sand; Si & Fe-Rich	< 5
39	D	PED41539	463029	5680505	12	B	Medium Tan/Grey	Fine-grained Sand; Si & Fe-Rich	< 5
40	D	PED41540	463059	5680505	10	B	Medium Tan/Grey	Medium-grained Sand; Fe-Rich	< 5
41	D	PED41541	463090	5680505	12	B	Medium Tan/Grey	Medium-grained Sand; Fe-Rich	< 5
42	D	PED41542	463120	5680504	12	B	Medium Tan/Grey	Medium-grained Sand; Fe-Rich	< 5
43	D	PED41543	463149	5680506	10	B	Medium Tan/Brown	Medium-grained Sand; Fe-Rich	< 5
44	D	PED41544	463179	5680506	10	B	Medium/Dark Brown	Clay Loam; moderate organics	< 5
45	D	PED41545	463211	5680504	12	B	Medium Tan/Brown	Medium-grained Sand; Fe-Rich	8
46	D	PED41546	463239	5680504	14	B	Medium Tan/Brown	Coarse-grained Sand; Fe-Rich	< 5
47	D	PED41547	463271	5680506	14	B	Medium Tan/Grey	Fine-grained Sand; Si & Fe-Rich	< 5
48	D	PED41548	463299	5680504	12	B	Medium Tan/Brown	Medium-grained Sand; Fe-Rich	< 5
49	D	PED41549	463329	5680504	10	B	Medium Tan/Grey	Fine-grained Sand; Si & Fe-Rich	< 5
50	D	PED41550	463360	5680505	10	B	Medium	Medium-grained Sand; Fe-Rich	< 5
51	D	PED41551	463389	5680504	10	B	Medium Tan/Brown	Medium-grained Sand; Fe-Rich	< 5
52	D	PED41552	463419	5680505	8	B	Dark Brown	Clay Loam; moderate organics	< 5
53	D	PED41553	463450	5680504	8	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
54	D	PED41554	463478	5680504	10	B	Medium	Medium-grained Sand; Fe-Rich	< 5
55	D	PED41555	463511	5680504	8	B	Medium Tan/Brown	Medium-grained Sand; Fe-Rich	< 5
56	D	PED41556	463539	5680504	6	B	Medium Tan/Brown	Coarse Sand; Fe-Rich	< 5
57	D	PED41557	463569	5680506	10	B	Medium	Medium-grained Sand; Fe-Rich	< 5
58	D	PED41558	463599	5680504	12	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
59	D	PED41559	463631	5680504	12	B	Medium	Medium-grained Sand; Fe-Rich	< 5
60	D	PED41560	463661	5680504	10	B	Tan/Light Brown	Medium Grained Sand;	< 5
61	D	PED41561	463691	5680505	10	B	Medium Grey/Tan	Coarse Sand; Fe-Rich	< 5
62	D	PED41562	463720	5680504	12	B	Medium Grey/Tan	Medium-grained Sand; Fe-Rich	< 5
63	D	PED41563	463750	5680505	12	B	Light	Medium-grained Sand; Fe-Rich	< 5
64	D	PED41564	463780	5680504	10	B	Light	Medium-grained Sand; Fe-Rich	< 5
65	D	PED41565	463810	5680504	8	B	Medium	Medium-grained Sand; Fe-Rich	< 5
66	D	PED41566	463840	5680504	6	B	Medium	Medium-grained Sand; Fe-Rich	< 5
67	D	PED41567	463869	5680504	6	B	Medium	Medium-grained Sand; Fe-Rich	< 5
68	D	PED41568	463899	5680504	8	B	Medium	Medium-grained Sand; Fe-Rich	< 5
69	D	PED41569	463930	5680504	8	B	Medium	Medium-grained Sand; Fe-Rich	< 5
70	D	PED41570	463960	5680505	10	B	Medium	Medium-grained Sand; Fe-Rich	< 5

71	D	PED41571	463990	5680504	12	B	Light	Coarse Sand; Fe-Rich	< 5
72	D	PED41572	464019	5680505	10	B	Medium	Coarse Sand; Fe-Rich	< 5
73	D	PED41573	464050	5680505	12	B	Medium	Coarse Sand; Fe-Rich	9
74	D	PED41574	464080	5680504	12	B	Medium-Dark	Fine Grained Sand; subangular; Fe	< 5
75	D	PED41575	464111	5680505	12	B	Medium	Medium Grained Sand/Pebbles;	< 5
76	D	PED41576	464141	5680506	10	B	Medium	Coarse Sand; Fe-Rich	6
77	D	PED41577	464170	5680504	14	B	Medium Grey/Tan	Coarse grain sand; subangular; Si	< 5
78	D	PED41578	464200	5680505	14	B	Medium Tan/Grey	Fine-Medium Grained Sand; Si	< 5
79	D	PED41579	464231	5680505	14	B	Medium Tan/Grey	Fine-Medium Grained Sand; Si	< 5
80	D	PED41580	464260	5680505	16	B	Medium	Very Coarse Sand/Pebbles; Fe-Rich	50
81	D	PED41581	464289	5680505	14	B	Medium Grey/Tan	Medium grained sand; mod Fe	12
82	D	PED41582	464320	5680504	14	B	Medium	Fine-Medium Grained Sand; Si	< 5
83	D	PED41583	464351	5680504	14	B	Medium	Fine Grained Sand; subangular;	< 5
84	D	PED41584	464379	5680504	14	B	Medium Tan/Brown	Fine Grained Sand; subangular;	< 5
85	E	PED41585	462925	5680735	8	B	Medium	Coarse grain sand; subangular; Si	< 5
86	E	PED41586	462956	5680735	8	B	Medium Grey/Tan	Medium grained sand; mod Fe	< 5
87	E	PED41587	462985	5680736	10	B	Medium Tan/Grey	Fine-Medium Grained Sand; Si	< 5
88	E	PED41588	463014	5680735	8	B	Light Grey/Tan	Fine Grain Sand; silica rich	< 5
89	E	PED41589	463045	5680735	8	B	Medium Tan/Grey	Fine-Medium Grained Sand; Si	11
90	E	PED41590	463075	5680735	10	B	Medium Tan/Grey	Fine-Medium Grained Sand; Si	< 5
91	E	PED41591	463105	5680735	10	B	Medium Tan/Grey	Fine-Medium Grained Sand; Si	< 5
92	E	PED41592	463135	5680735	8	B	Medium Tan/Grey	Fine-Medium Grained Sand; Si	< 5
93	E	PED41593	463165	5680734	8	B	Medium Grey/Tan	Medium grained sand; mod Fe	< 5
94	E	PED41594	463194	5680734	8	B	Medium	Very Coarse Sand/Pebbles; Fe-Rich	< 5
95	E	PED41595	463225	5680734	6	B	Medium	Coarse grain sand; subangular; Si	< 5
96	E	PED41596	463255	5680735	6	B	Medium Tan/Grey	Medium grained sand;	< 5
97	E	PED41597	463285	5680735	6	B	Medium Grey/Tan	Medium grained sand;	< 5
98	E	PED41598	463315	5680734	8	B	Medium	Coarse grain sand; subangular; Si	8
99	F	PED41599	462990	5681015	18	B	Medium Grey/Tan	Medium grained sand; mod Fe	< 5
100	F	PED41600	463020	5681014	16	B	Medium Tan/Grey	Sandy Loam grading to FG Sand	< 5
101	F	PED41651	463050	5681014	14	B	Medium	Medium grained sand;	< 5
102	F	PED41652	463081	5681015	10	B	Medium	Medium grained sand;	< 5
103	F	PED41653	463110	5681015	10	B	Medium	Medium grained sand;	11
104	F	PED41654	463141	5681015	10	B	Medium	Medium grained sand;	7
105	F	PED41655	463170	5681014	8	B	Medium Grey/Tan	Medium grained sand; mod Fe	5
106	F	PED41656	463201	5681015	10	B	Medium	Very Coarse Sand/Pebbles; Fe-Rich	6
107	F	PED41657	463231	5681014	6	B	Medium Grey/Tan	Medium grained sand;	< 5
108	F	PED41658	463260	5681015	6	B	Medium Grey/Tan	Medium grained sand;	< 5
109	F	PED41659	463289	5681014	6	B	Medium	Coarse grain sand; subangular; Si	7
110	F	PED41660	463320	5681015	6	B	Light Grey/Brown	Fine-Medium Grained Sand; Si	5
111	F	PED41661	463351	5681014	8	B	Medium Tan/Light	Medium grained sand; mod Fe	< 5
112	F	PED41662	463380	5681015	8	B	Medium	Very Coarse Sand/Pebbles; Fe-Rich	< 5
113	F	PED41663	463410	5681014	8	B	Medium Grey/Light	Loam Sandy; Si/Fe Rich	< 5
114	F	PED41664	463440	5681015	10	B	Light-Med	Sandy Clay Loam; trace organics	< 5
115	F	PED41665	463471	5681014	8	B	Light Grey/Reddish	Medium Grained Sand; Si and Fe	< 5
116	F	PED41666	463499	5681015	8	B	Medium	Medium Grained Sand; Si and Fe	< 5
117	G	PED41667	463320	5681245	10	B	Medium	Fine-Medium Grained Sand; Si	< 5
118	G	PED41668	463350	5681244	12	B	Light-Medium	Medium Grained Sand; Si and Fe	< 5
119	G	PED41669	463380	5681246	12	B	Light-Medium	Medium Grained Sand; Si and Fe	64
120	G	PED41670	463410	5681244	10	B	Light-Medium	Medium Grained Sand; Si and Fe	< 5
121	G	PED41671	463440	5681245	10	B	Medium	Fine Grained Sand; subangular;	12
122	G	PED41672	463470	5681245	12	B	Medium Grey/Brown	Medium Grained Sand;	< 5
123	G	PED41673	463500	5681245	12	B	Medium	Fine Grained Sand; subangular;	< 5
124	G	PED41674	463530	5681245	12	B	Medium	Sandy Loam; sub-rounded	< 5
125	G	PED41675	463560	5681245	12	B	Medium	Sandy Loam; sub-rounded	< 5
126	G	PED41676	463590	5681244	10	B	Medium Tan/Light	Fine Grained Sand; subangular;	< 5
127	G	PED41677	463621	5681245	10	B	Medium	Medium Grained Sand;	< 5
128	G	PED41678	463650	5681245	10	B	Medium Brown/Grey	Medium Grained Sand;	< 5
129	G	PED41679	463680	5681245	10	B	Medium Grey/Tan	Fine Grained Sand; subangular;	< 5
130	G	PED41680	463711	5681245	12	B	Medium	Sandy Loam; subangular; silica &	< 5

131	H	PED41681	463470	5681485	12	B	Light Grey/Tan	Medium Grained Sand;	< 5
132	H	PED41682	463500	5681486	12	B	Tan/Light Brown	Fine Grained Sand; subangular;	82
133	H	PED41683	463529	5681485	10	B	Light Brown/Tan	Sandy Clay Loam; Silica & Fe-rich	< 5
134	H	PED41684	463560	5681485	10	B	Light Grey/Tan	Fine Grained Sand; subangular;	< 5
135	H	PED41685	463590	5681485	10	B	Light Grey/Reddish	Medium Grained Sand;	< 5
136	H	PED41686	463620	5681486	12	B	Light Grey	Fine Grained Sand; subangular;	< 5
137	H	PED41687	463650	5681485	12	B	Light Grey/Tan	Medium Grained Sand;	< 5
138	H	PED41688	463680	5681485	10	B	Medium	Sandy Clay Loam; Fe-rich	< 5
139	H	PED41689	463710	5681485	10	B	Light Grey/Tan	Fine Grained Sand; subangular;	< 5
140	H	PED41690	463740	5681485	10	B	Tan/Light Brown	Medium Grained Sand;	< 5

Values that returned below detection limit for the assay method used were entered into the database as half of the detection limit value for the purpose of plotting the results in GIS.

Plotting the Au (ppb) results is shown in **Figure 6**. An examination of the accompanying map shows that the majority of the values obtained are <5 ppb, 5 ppb being the lower detection limit and can be regarded as the background value. All values above 5 ppb are regarded as anomalous.

Anomalous area "1" defined by the results obtained from 8 soil samples collected within survey Line F, G and H. The highest return of 82 Au (ppb) occurs in the north part of the property from sample station #132, sample Id PED41682 consisting of light brown fine grained sand, sub angular and silica rich.

Anomalous area "2" defined by the results obtained from 6 soil samples collected within survey Line D with the highest 50 (ppb) Au peak towards the western part of the property, sample station # 80, sample Id PED41580 consisting of medium brown –reddish coarse sand.

The other multi elements chosen to be plotted and considered to be closely associated with Au occurrences are Sb (ppm), As (ppm) and Hg (ppm). (**Figure 7)**

Slightly elevated values of the chosen trace elements were observed on west side of the property, within the Balmer basalt.

Conclusion and recommendation

The geochemical soil sampling program located two areas of anomalous gold values that warrant further investigation of the property.

Based on the results, further higher density of soil sampling work should be confined to the vicinity of the two anomalous areas and the following recommendations are made for further exploration on the property.

Fig. 6 Samples location, Au ppb results soil samples “B” horizon

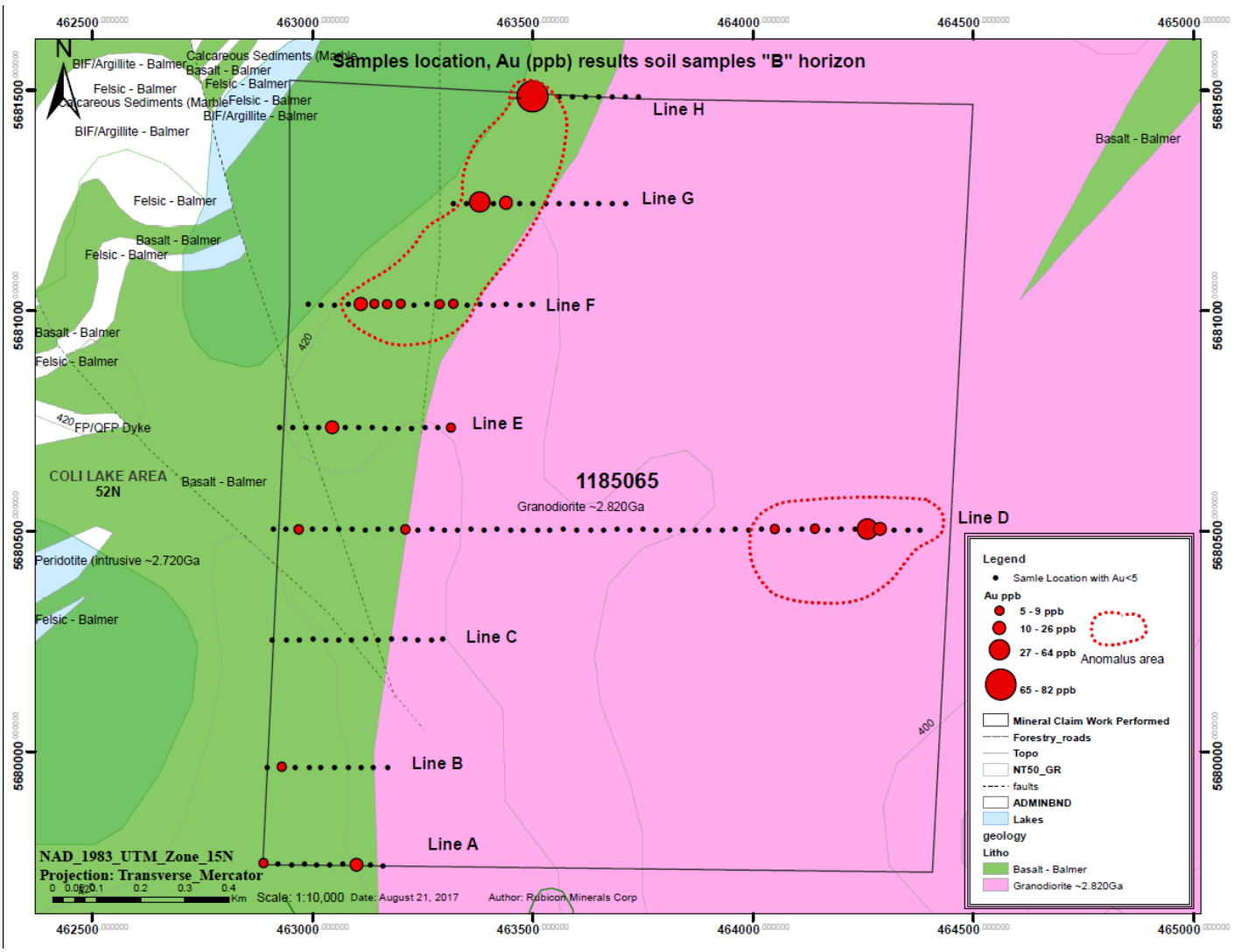
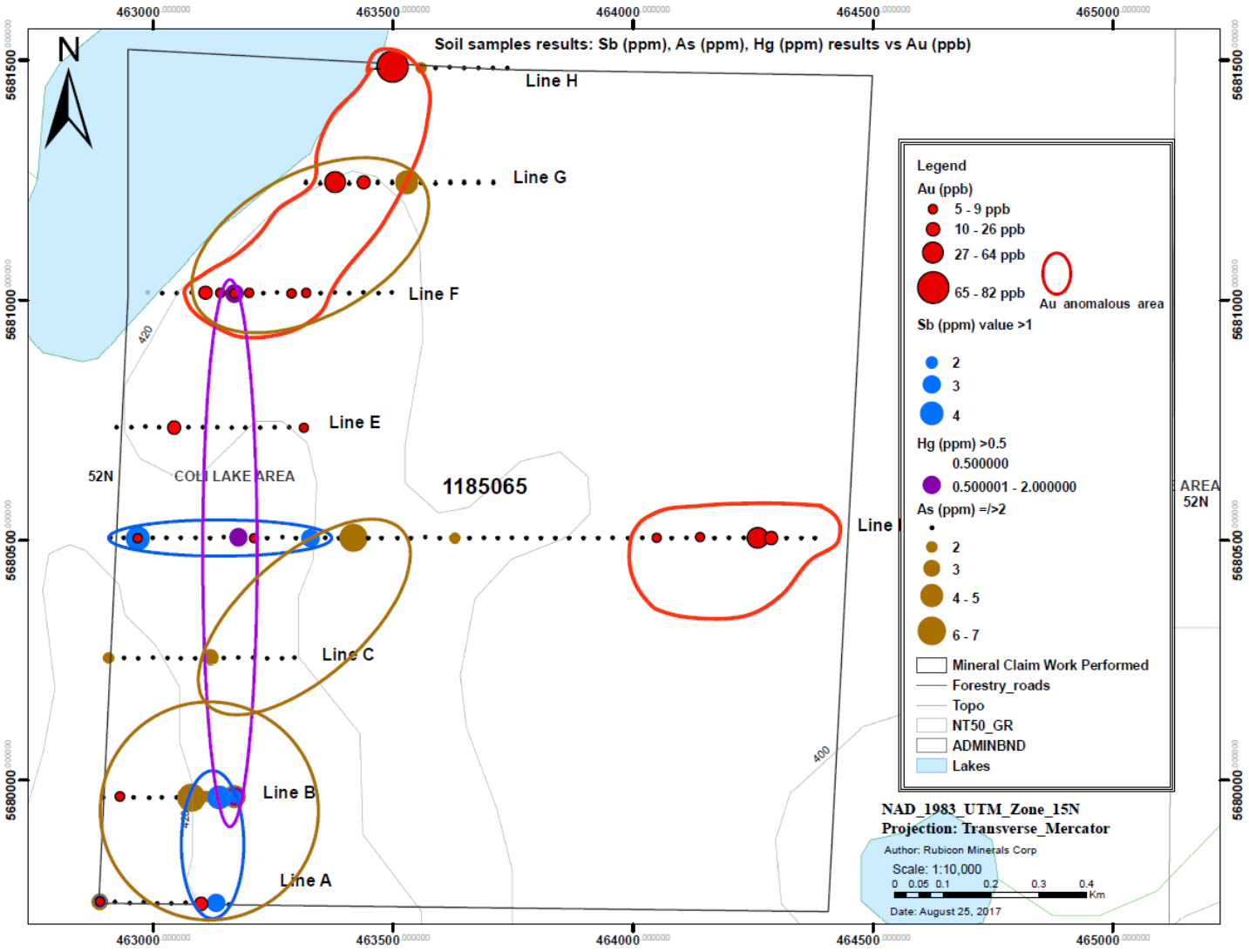


Fig. 7 Soil samples results: Sb (ppm), As (ppm), Hg (ppm) results vs Au (ppb)



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10.0 PROFESIONAL CERTIFICATION

PROFESSIONAL CERTIFICATION

I, Mark Ross, a geologist with Rubicon Minerals Corporation, residing at 4 Waterfront Road. Red Lake Ontario, hereby certify that:

1. I am a graduate of Laurentian University, 2002.

2. I have been employed in the geoscience industry since April 1999, and as Chief Geologist with Rubicon Minerals Corporation since 2013.

3. I personally prepared and reviewed sections of this work report.

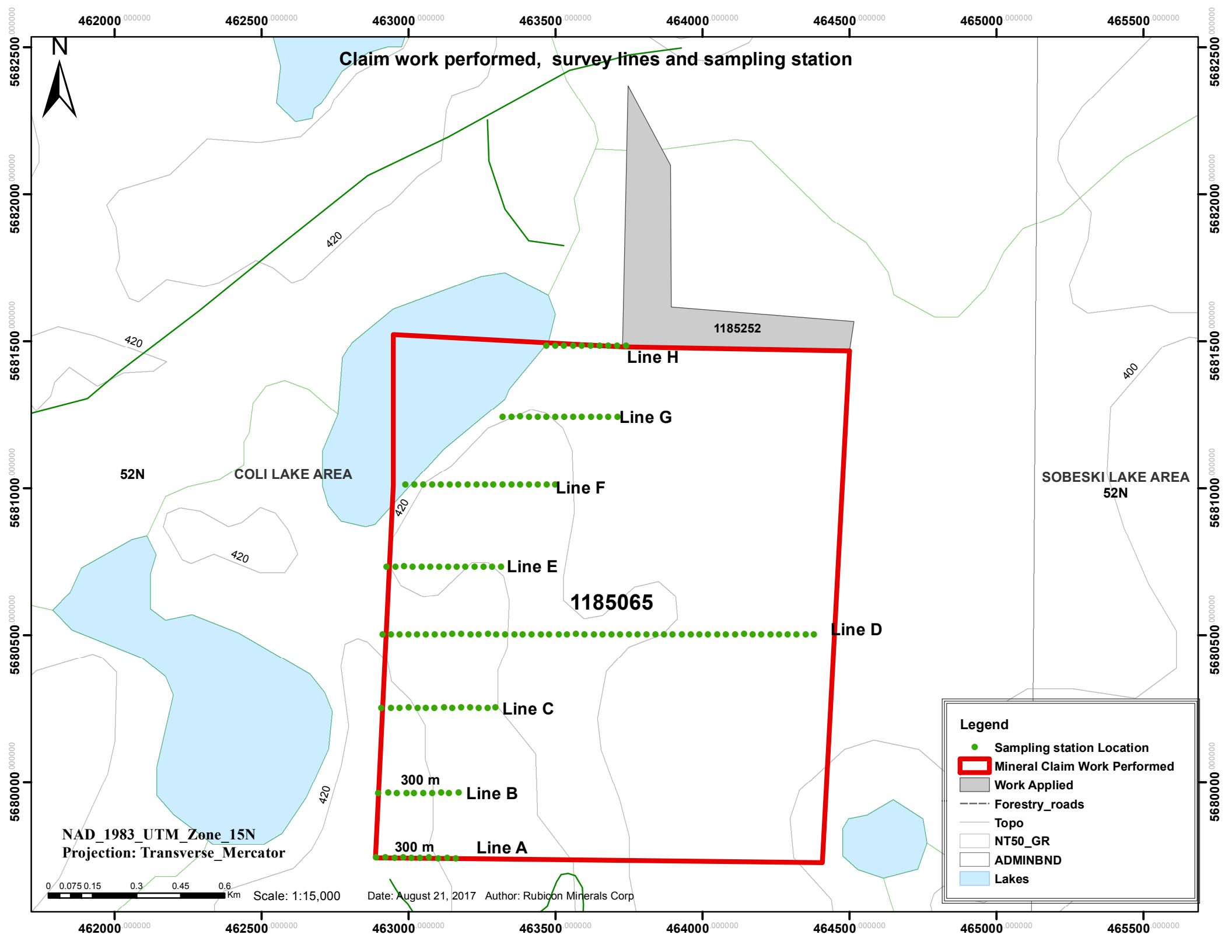
4. I am a member in good standing of the APGO, member number 1877.

4. I am not aware of any material fact or material change with respect to the subject matter of the assessment report which is not reflected in the assessment report, the omission to disclose which makes the assessment report misleading.

Dated this 20th day of September, 2017

Mark Ross, B.Sc. PGeo.

Signature of Author


Claim work performed, survey lines and sampling station
N
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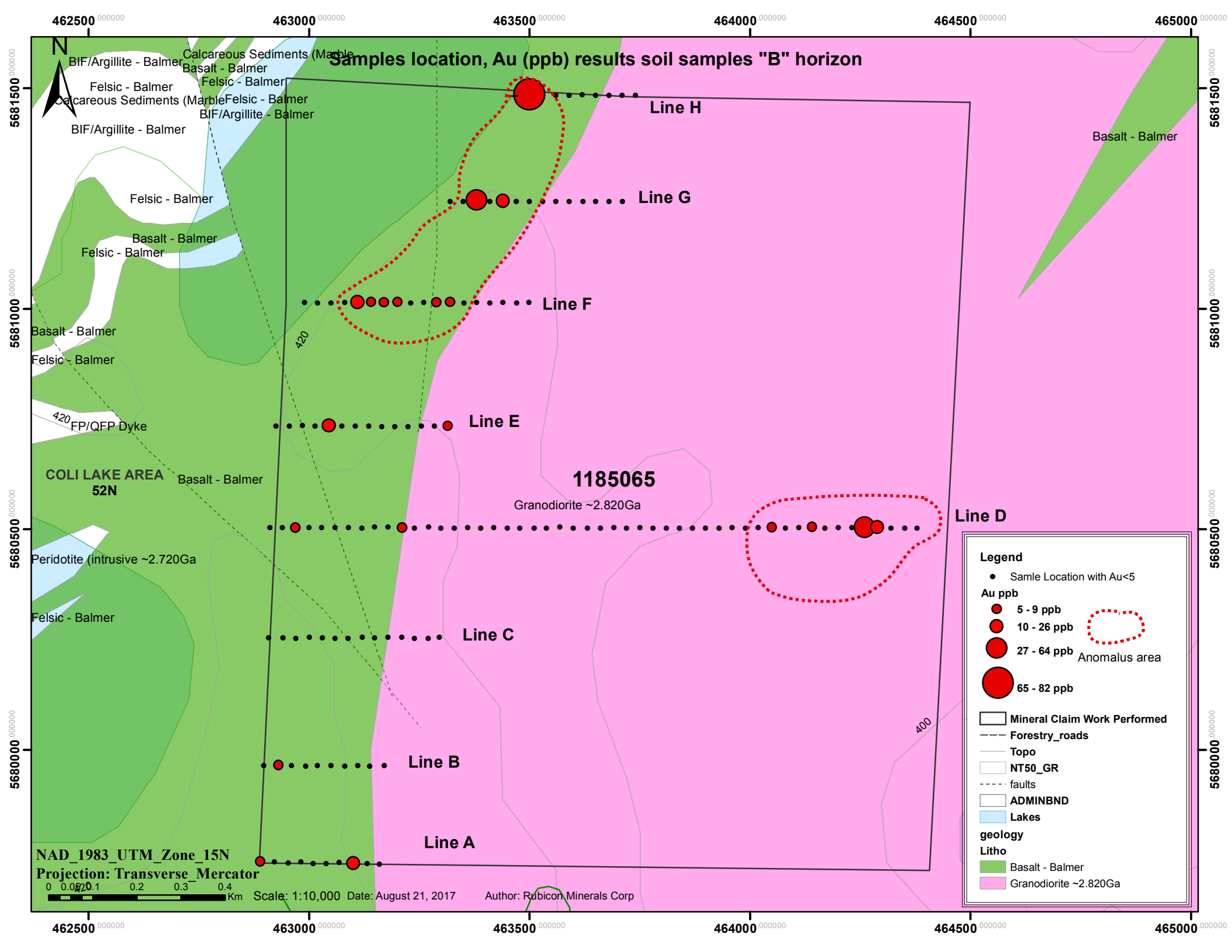
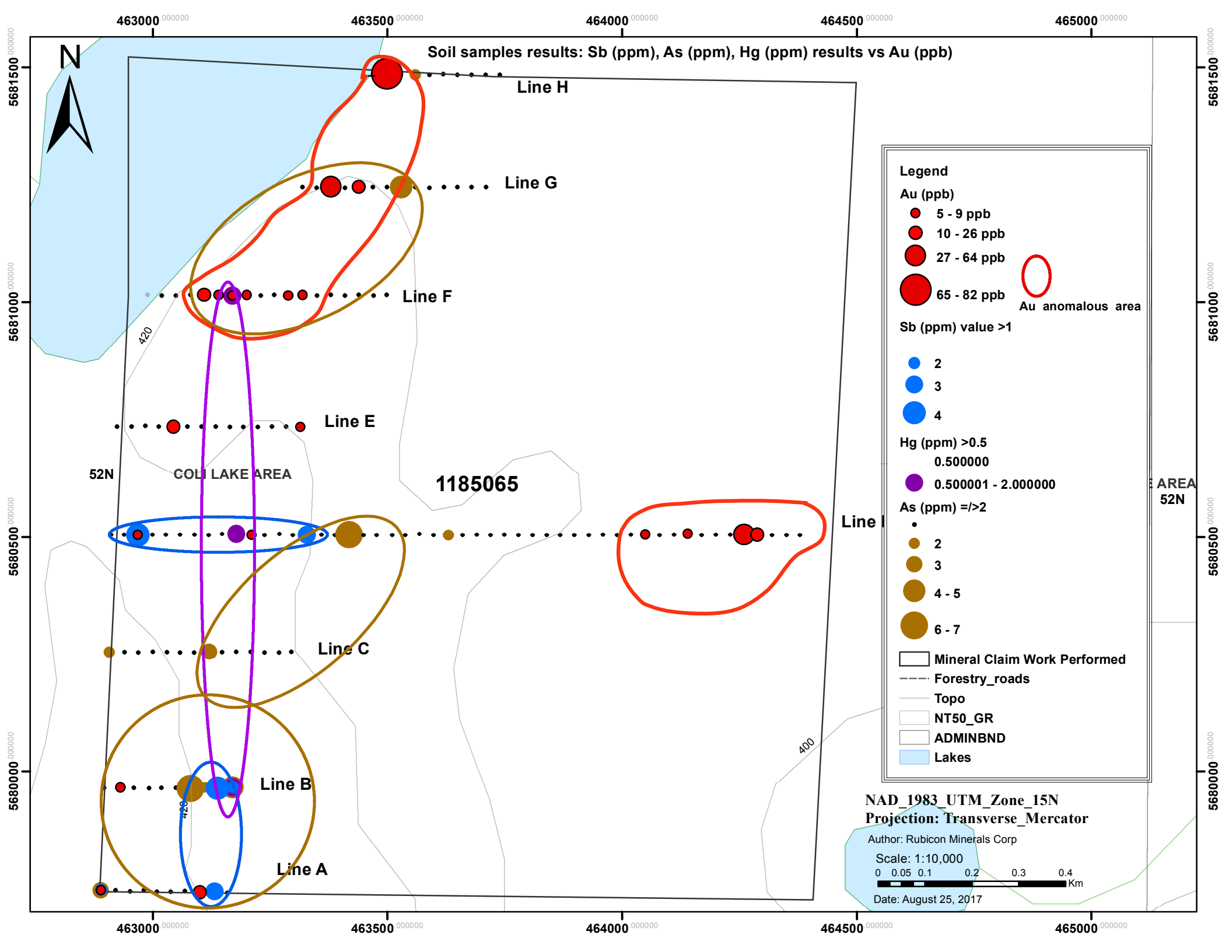
462500
463000
463500
464000
464500
465000
465500
5682500
5682000
5681500
5681000
5680500
5680000
420
400
1185252
Line H
Line G
Line F
Line E
Line D
Line C
Line B
Line A
300 m
300 m
1185065
52N
COLI LAKE AREA
SOBESKI LAKE AREA
52N
NAD_1983_UTM_Zone_15N
Projection: Transverse_Mercator
0 0.075 0.15 0.3 0.45 0.6
Km
Scale: 1:15,000
Date: August 21, 2017 Author: Rubicon Minerals Corp
Legend
Sampling station Location
Mineral Claim Work Performed
Work Applied
Forestry_roads
Topo
NT50_GR
ADMINBND
Lakes


Samples location, Au (ppb) results soil samples "B" horizon
N
462500
463000
463500
464000
464500
465000
5681500
5681000
5680500
5680000
BIF/Argillite - Balmer
Calcareous Sediments (Marble
Basalt - Balmer
Felsic - Balmer
Felsic - Balmer
Calcareous Sediments (Marble
Felsic - Balmer
BIF/Argillite - Balmer
BIF/Argillite - Balmer
Basalt - Balmer
Line H
Line G
Felsic - Balmer
Basalt - Balmer
Felsic - Balmer
Line F
420
Basalt - Balmer
Felsic - Balmer
420
FP/QFP Dyke
Line E
COLI LAKE AREA
52N
Basalt - Balmer
1185065
Granodiorite ~2.820Ga
Line D
Peridotite (intrusive ~2.720Ga
Felsic - Balmer
Line C
400
Line B
Line A
NAD_1983_UTM_Zone_15N
Projection: Transverse_Mercator
0 0.05 0.1 0.2 0.3 0.4
Km
Scale: 1:10,000
Date: August 21, 2017
Author: Rubicon Minerals Corp
Legend
Samle Location with Au<5
Au ppb
5 - 9 ppb
10 - 26 ppb
27 - 64 ppb
65 - 82 ppb
Anomalus area
Mineral Claim Work Performed
Forestry_roads
Topo
NT50_GR
faults
ADMINBND
Lakes
geology
Litho
Basalt - Balmer
Granodiorite ~2.820Ga


Soil samples results: Sb (ppm), As (ppm), Hg (ppm) results vs Au (ppb)
N
463000
463500
464000
464500
465000
5681500
5681000
5680500
5680000
Line H
Line G
Line F
Line E
Line C
Line B
Line A
420
400
52N
COLI LAKE AREA
1185065
AREA
52N
Legend
Au (ppb)
5 - 9 ppb
10 - 26 ppb
27 - 64 ppb
65 - 82 ppb
Au anomalous area
Sb (ppm) value >1
2
3
4
Hg (ppm) >0.5
0.500000
0.500001 - 2.000000
As (ppm) =/>2
2
3
4 - 5
6 - 7
Mineral Claim Work Performed
Forestry_roads
Topo
NT50_GR
ADMINBND
Lakes
NAD_1983_UTM_Zone_15N
Projection: Transverse_Mercator
Author: Rubicon Minerals Corp
Scale: 1:10,000
0 0.05 0.1 0.2 0.3 0.4
Km
Date: August 25, 2017

Quality Analysis ... *Innovative Technologies*

Date Submitted: 26-Jul-17
Invoice No.: A17-07789
Invoice Date: 14-Aug-17
Your Reference:

Rubicon Minerals
Box 274
Cochenour ON P0V 1L0
Canada

ATTN: Denise Saunders

CERTIFICATE OF ANALYSIS

140 Soil samples were submitted for analysis.

The following analytical package(s) were requested: Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A17-07789**

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41501	6	< 0.2	< 0.5	29	241	< 1	16	6	36	1.14	3	< 10	42	< 0.5	< 2	0.52	9	51	6.01	< 10	< 1	0.09	30
PED41502	< 5	< 0.2	< 0.5	23	240	< 1	13	5	39	1.27	< 2	< 10	53	< 0.5	< 2	0.45	10	26	3.18	< 10	< 1	0.13	30
PED41503	< 5	< 0.2	< 0.5	8	112	< 1	7	3	9	0.25	< 2	< 10	17	< 0.5	< 2	0.39	4	22	2.29	< 10	< 1	0.03	21
PED41504	< 5	< 0.2	< 0.5	8	118	< 1	7	4	9	0.25	< 2	< 10	17	< 0.5	< 2	0.40	5	23	2.51	< 10	< 1	0.03	22
PED41505	< 5	< 0.2	< 0.5	25	327	< 1	11	5	41	0.93	< 2	< 10	62	< 0.5	< 2	0.61	9	28	2.31	< 10	< 1	0.31	52
PED41506	< 5	< 0.2	< 0.5	7	111	< 1	6	3	8	0.25	< 2	< 10	18	< 0.5	< 2	0.43	4	28	2.59	< 10	< 1	0.03	20
PED41507	< 5	< 0.2	< 0.5	32	255	< 1	11	5	33	0.89	< 2	< 10	46	< 0.5	< 2	0.51	8	20	1.85	< 10	< 1	0.15	46
PED41508	26	< 0.2	< 0.5	29	275	< 1	19	6	62	2.77	2	< 10	87	0.6	< 2	0.37	13	50	5.90	< 10	< 1	0.11	24
PED41509	< 5	< 0.2	< 0.5	39	323	< 1	24	8	64	2.37	3	< 10	73	0.5	< 2	0.42	14	53	6.66	< 10	< 1	0.13	31
PED41510	< 5	< 0.2	< 0.5	25	337	< 1	10	6	41	0.96	< 2	< 10	63	< 0.5	< 2	0.61	8	27	2.32	< 10	< 1	0.32	56
PED41511	< 5	< 0.2	< 0.5	7	122	< 1	7	4	9	0.25	< 2	< 10	17	< 0.5	< 2	0.45	6	33	3.54	< 10	< 1	0.03	24
PED41512	9	< 0.2	< 0.5	6	102	< 1	5	4	8	0.26	< 2	< 10	18	< 0.5	< 2	0.39	4	24	2.42	< 10	< 1	0.03	22
PED41513	< 5	< 0.2	< 0.5	8	132	< 1	7	3	9	0.26	< 2	< 10	19	< 0.5	< 2	0.41	5	24	2.66	< 10	< 1	0.04	24
PED41514	< 5	< 0.2	< 0.5	34	291	< 1	17	7	59	1.56	< 2	< 10	63	< 0.5	< 2	0.56	11	36	3.92	< 10	< 1	0.14	35
PED41515	< 5	< 0.2	< 0.5	8	114	< 1	6	4	9	0.28	< 2	< 10	20	< 0.5	< 2	0.44	4	25	2.39	< 10	< 1	0.04	23
PED41516	< 5	< 0.2	< 0.5	7	106	< 1	5	2	9	0.23	< 2	< 10	18	< 0.5	< 2	0.33	4	20	2.06	< 10	< 1	0.03	21
PED41517	< 5	< 0.2	< 0.5	23	307	< 1	10	4	41	0.81	7	< 10	61	< 0.5	< 2	0.63	8	30	2.36	< 10	< 1	0.31	50
PED41518	< 5	< 0.2	< 0.5	19	233	< 1	14	6	49	1.89	2	< 10	78	< 0.5	< 2	0.39	10	27	3.44	< 10	< 1	0.11	24
PED41519	< 5	< 0.2	< 0.5	38	337	< 1	24	8	66	2.46	2	< 10	74	0.5	< 2	0.42	16	66	8.12	< 10	< 1	0.13	30
PED41520	< 5	< 0.2	< 0.5	25	251	< 1	22	6	64	2.78	4	< 10	85	0.6	< 2	0.35	12	47	5.48	< 10	2	0.10	18
PED41521	< 5	< 0.2	< 0.5	22	337	< 1	10	5	44	0.92	2	< 10	66	< 0.5	< 2	0.58	8	26	2.20	< 10	< 1	0.33	51
PED41522	< 5	< 0.2	< 0.5	32	252	< 1	11	6	37	1.00	< 2	< 10	52	< 0.5	< 2	0.51	8	21	2.37	< 10	< 1	0.20	49
PED41523	< 5	< 0.2	< 0.5	30	253	< 1	11	9	37	0.95	< 2	< 10	52	< 0.5	< 2	0.51	8	20	2.29	< 10	< 1	0.21	48
PED41524	< 5	< 0.2	< 0.5	7	103	< 1	5	3	8	0.26	< 2	< 10	20	< 0.5	< 2	0.42	4	20	2.17	< 10	< 1	0.03	21
PED41525	< 5	< 0.2	< 0.5	33	259	< 1	11	10	37	0.98	< 2	< 10	54	< 0.5	< 2	0.51	8	21	2.35	< 10	< 1	0.21	57
PED41526	< 5	< 0.2	< 0.5	32	257	< 1	11	13	37	0.94	< 2	< 10	52	< 0.5	< 2	0.50	8	21	2.27	< 10	< 1	0.21	52
PED41527	< 5	< 0.2	< 0.5	25	326	< 1	11	6	42	0.93	< 2	< 10	66	< 0.5	< 2	0.59	8	27	2.29	< 10	< 1	0.31	51
PED41528	< 5	< 0.2	< 0.5	26	245	< 1	14	5	41	1.34	3	< 10	49	< 0.5	< 2	0.49	9	27	2.93	< 10	< 1	0.12	28
PED41529	< 5	< 0.2	< 0.5	24	322	< 1	11	4	41	0.93	< 2	< 10	64	< 0.5	< 2	0.58	8	24	2.27	< 10	< 1	0.31	49
PED41530	< 5	< 0.2	< 0.5	29	246	< 1	10	6	35	0.94	< 2	< 10	51	< 0.5	< 2	0.52	8	20	2.33	< 10	< 1	0.20	49
PED41531	< 5	< 0.2	< 0.5	7	101	< 1	5	3	7	0.27	< 2	< 10	23	< 0.5	< 2	0.38	4	20	1.84	< 10	< 1	0.04	20
PED41532	< 5	< 0.2	< 0.5	6	109	< 1	6	4	9	0.28	< 2	< 10	20	< 0.5	< 2	0.43	4	26	2.61	< 10	< 1	0.03	21
PED41533	< 5	< 0.2	< 0.5	5	84	< 1	5	3	7	0.25	< 2	< 10	19	< 0.5	< 2	0.36	3	19	1.84	< 10	< 1	0.03	19
PED41534	< 5	< 0.2	< 0.5	5	73	< 1	4	4	6	0.25	< 2	< 10	17	< 0.5	< 2	0.32	3	14	1.30	< 10	< 1	0.03	16
PED41535	< 5	< 0.2	< 0.5	14	183	< 1	12	6	40	1.88	< 2	< 10	65	< 0.5	< 2	0.32	7	27	2.89	< 10	< 1	0.08	16
PED41536	< 5	< 0.2	< 0.5	33	246	< 1	11	6	35	0.94	< 2	< 10	50	< 0.5	< 2	0.53	8	20	2.21	< 10	< 1	0.20	48
PED41537	7	< 0.2	< 0.5	33	252	< 1	11	5	38	1.02	< 2	< 10	56	< 0.5	< 2	0.49	8	20	2.25	< 10	< 1	0.21	48
PED41538	< 5	< 0.2	< 0.5	24	286	< 1	9	5	42	0.95	< 2	< 10	66	< 0.5	< 2	0.59	8	19	2.43	< 10	< 1	0.31	48
PED41539	< 5	< 0.2	< 0.5	24	286	< 1	10	6	42	0.93	< 2	< 10	63	< 0.5	< 2	0.60	9	19	2.39	< 10	< 1	0.31	49
PED41540	< 5	< 0.2	< 0.5	24	293	< 1	11	5	43	0.95	< 2	< 10	66	< 0.5	< 2	0.56	9	19	2.28	< 10	< 1	0.32	47
PED41541	< 5	< 0.2	< 0.5	25	291	< 1	11	5	43	0.98	< 2	< 10	64	< 0.5	< 2	0.56	8	19	2.33	< 10	< 1	0.31	47
PED41542	< 5	< 0.2	< 0.5	26	267	< 1	10	6	40	0.95	< 2	< 10	59	< 0.5	< 2	0.56	8	19	2.27	< 10	< 1	0.27	45

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41543	< 5	< 0.2	< 0.5	25	351	1	13	5	46	1.01	< 2	< 10	69	< 0.5	< 2	0.61	9	29	2.43	< 10	< 1	0.34	53
PED41544	< 5	< 0.2	< 0.5	31	276	< 1	20	5	53	2.29	< 2	< 10	66	< 0.5	< 2	0.42	13	35	3.85	< 10	2	0.12	24
PED41545	< 5	< 0.2	< 0.5	24	329	< 1	11	5	42	0.93	< 2	< 10	67	< 0.5	< 2	0.59	8	25	2.25	< 10	< 1	0.33	49
PED41546	< 5	< 0.2	< 0.5	25	339	< 1	11	5	45	1.03	< 2	< 10	70	< 0.5	< 2	0.58	8	26	2.32	< 10	< 1	0.33	53
PED41547	< 5	< 0.2	< 0.5	26	277	< 1	11	5	41	0.97	< 2	< 10	62	< 0.5	< 2	0.57	8	19	2.31	< 10	< 1	0.29	44
PED41548	< 5	< 0.2	< 0.5	25	272	< 1	11	5	40	0.94	< 2	< 10	60	< 0.5	< 2	0.55	8	19	2.27	< 10	< 1	0.28	46
PED41549	< 5	< 0.2	< 0.5	27	265	< 1	10	6	40	0.98	< 2	< 10	60	< 0.5	< 2	0.55	8	20	2.43	< 10	< 1	0.25	44
PED41550	< 5	< 0.2	< 0.5	26	265	< 1	10	6	40	1.00	< 2	< 10	60	< 0.5	< 2	0.54	8	19	2.37	< 10	< 1	0.26	41
PED41551	< 5	< 0.2	< 0.5	28	284	< 1	10	4	42	1.00	< 2	< 10	61	< 0.5	< 2	0.57	9	20	2.46	< 10	< 1	0.29	43
PED41552	< 5	< 0.2	< 0.5	17	197	< 1	12	8	43	1.95	7	< 10	67	< 0.5	< 2	0.33	8	29	3.04	< 10	< 1	0.09	16
PED41553	< 5	< 0.2	< 0.5	23	334	< 1	10	6	42	0.91	< 2	< 10	66	< 0.5	< 2	0.61	8	28	2.35	< 10	< 1	0.32	49
PED41554	< 5	< 0.2	< 0.5	27	234	< 1	10	5	34	0.89	< 2	< 10	50	< 0.5	< 2	0.51	7	21	2.31	< 10	< 1	0.20	44
PED41555	< 5	< 0.2	< 0.5	29	257	< 1	9	6	37	0.90	< 2	< 10	55	< 0.5	< 2	0.53	8	19	2.21	< 10	< 1	0.23	51
PED41556	< 5	< 0.2	< 0.5	15	197	< 1	11	3	21	0.58	< 2	< 10	30	< 0.5	< 2	0.52	7	41	4.87	< 10	< 1	0.08	32
PED41557	< 5	< 0.2	< 0.5	24	278	< 1	10	5	40	0.92	< 2	< 10	60	< 0.5	< 2	0.59	8	19	2.28	< 10	< 1	0.29	49
PED41558	< 5	< 0.2	< 0.5	25	322	< 1	11	5	43	0.85	< 2	< 10	64	< 0.5	< 2	0.62	8	29	2.30	< 10	< 1	0.34	53
PED41559	< 5	< 0.2	< 0.5	26	277	< 1	11	5	40	0.87	2	< 10	58	< 0.5	< 2	0.55	8	17	2.16	< 10	< 1	0.28	54
PED41560	< 5	< 0.2	< 0.5	27	249	< 1	9	5	36	0.91	< 2	< 10	55	< 0.5	< 2	0.53	7	18	2.17	< 10	< 1	0.24	47
PED41561	< 5	< 0.2	< 0.5	25	319	< 1	12	4	43	0.92	< 2	< 10	66	< 0.5	< 2	0.60	8	26	2.44	< 10	< 1	0.32	50
PED41562	< 5	< 0.2	< 0.5	25	334	< 1	12	4	43	0.95	< 2	< 10	65	< 0.5	< 2	0.60	9	26	2.30	< 10	< 1	0.32	53
PED41563	< 5	< 0.2	< 0.5	15	163	< 1	8	2	21	0.67	< 2	< 10	29	< 0.5	< 2	0.43	5	20	2.07	< 10	< 1	0.07	27
PED41564	< 5	< 0.2	< 0.5	23	299	< 1	11	5	40	0.80	< 2	< 10	59	< 0.5	< 2	0.61	8	30	2.32	< 10	< 1	0.31	50
PED41565	< 5	< 0.2	< 0.5	24	276	2	10	5	40	0.96	< 2	< 10	60	< 0.5	< 2	0.58	8	19	2.43	< 10	< 1	0.29	41
PED41566	< 5	< 0.2	< 0.5	25	299	< 1	10	4	43	1.01	< 2	< 10	67	< 0.5	< 2	0.60	9	20	2.54	< 10	< 1	0.33	44
PED41567	< 5	< 0.2	< 0.5	23	274	< 1	10	5	41	0.96	< 2	< 10	61	< 0.5	< 2	0.59	8	19	2.36	< 10	< 1	0.29	41
PED41568	< 5	< 0.2	< 0.5	26	271	< 1	10	4	39	0.97	< 2	< 10	61	< 0.5	< 2	0.59	9	21	2.48	< 10	< 1	0.28	41
PED41569	< 5	< 0.2	< 0.5	27	308	< 1	11	5	42	0.89	< 2	< 10	62	< 0.5	< 2	0.62	8	27	2.44	< 10	< 1	0.32	50
PED41570	< 5	< 0.2	< 0.5	25	264	< 1	11	4	39	0.97	< 2	< 10	59	< 0.5	< 2	0.58	8	20	2.51	< 10	< 1	0.27	39
PED41571	< 5	< 0.2	< 0.5	23	337	< 1	11	5	42	0.97	< 2	< 10	65	< 0.5	< 2	0.60	8	28	2.43	< 10	< 1	0.33	52
PED41572	< 5	< 0.2	< 0.5	26	329	< 1	10	5	42	0.95	< 2	< 10	63	< 0.5	< 2	0.61	8	26	2.39	< 10	< 1	0.31	52
PED41573	9	< 0.2	< 0.5	22	202	< 1	9	3	25	0.74	< 2	< 10	32	< 0.5	< 2	0.46	6	19	1.85	< 10	< 1	0.10	38
PED41574	< 5	< 0.2	< 0.5	30	255	< 1	11	6	38	1.03	< 2	< 10	55	< 0.5	< 2	0.55	8	21	2.51	< 10	< 1	0.22	44
PED41575	< 5	< 0.2	< 0.5	28	248	< 1	10	5	37	0.94	< 2	< 10	53	< 0.5	< 2	0.55	8	19	2.36	< 10	< 1	0.23	46
PED41576	6	< 0.2	< 0.5	26	224	< 1	8	5	32	0.83	< 2	< 10	48	< 0.5	< 2	0.51	7	18	2.07	< 10	< 1	0.20	43
PED41577	< 5	< 0.2	< 0.5	23	306	< 1	10	5	40	0.81	< 2	< 10	60	< 0.5	< 2	0.62	8	26	2.32	< 10	< 1	0.32	50
PED41578	< 5	< 0.2	< 0.5	5	92	< 1	4	6	7	0.30	< 2	< 10	17	< 0.5	< 2	0.44	3	21	2.01	< 10	< 1	0.03	20
PED41579	< 5	< 0.2	< 0.5	6	99	< 1	5	5	8	0.31	< 2	< 10	17	< 0.5	< 2	0.46	4	24	2.16	< 10	< 1	0.03	20
PED41580	< 5	< 0.2	< 0.5	24	214	< 1	12	4	27	0.68	< 2	< 10	45	< 0.5	< 2	0.54	7	36	4.48	< 10	< 1	0.11	48
PED41581	12	< 0.2	< 0.5	26	281	< 1	9	4	38	0.78	2	< 10	56	< 0.5	< 2	0.58	8	25	2.33	< 10	< 1	0.29	49
PED41582	< 5	< 0.2	< 0.5	10	94	< 1	5	5	9	0.32	< 2	< 10	17	< 0.5	< 2	0.43	3	22	2.19	< 10	< 1	0.03	20
PED41583	< 5	< 0.2	< 0.5	6	97	< 1	5	2	8	0.32	< 2	< 10	16	< 0.5	< 2	0.44	4	25	2.36	< 10	< 1	0.03	21
PED41584	< 5	< 0.2	< 0.5	8	75	< 1	4	< 2	7	0.35	< 2	< 10	17	< 0.5	< 2	0.33	3	14	1.34	< 10	< 1	0.02	17

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41585	< 5	< 0.2	< 0.5	21	203	< 1	11	5	24	0.70	< 2	< 10	45	< 0.5	< 2	0.58	6	30	3.43	< 10	< 1	0.11	33
PED41586	< 5	< 0.2	< 0.5	26	316	< 1	10	6	41	0.86	< 2	< 10	61	< 0.5	< 2	0.62	8	29	2.12	< 10	< 1	0.32	50
PED41587	< 5	< 0.2	< 0.5	5	78	< 1	5	2	7	0.35	< 2	< 10	18	< 0.5	< 2	0.33	3	13	1.31	< 10	< 1	0.03	12
PED41588	< 5	< 0.2	< 0.5	5	91	< 1	4	2	7	0.35	< 2	< 10	16	< 0.5	< 2	0.42	3	21	2.13	< 10	< 1	0.03	15
PED41589	11	< 0.2	< 0.5	6	88	< 1	5	3	8	0.34	< 2	< 10	16	< 0.5	< 2	0.40	3	20	1.97	< 10	< 1	0.03	17
PED41590	< 5	< 0.2	< 0.5	5	83	< 1	5	20	8	0.33	< 2	< 10	15	< 0.5	< 2	0.37	3	18	1.85	< 10	< 1	0.03	17
PED41591	< 5	< 0.2	< 0.5	6	90	< 1	5	11	8	0.33	< 2	< 10	16	< 0.5	< 2	0.40	3	20	1.94	< 10	< 1	0.03	19
PED41592	< 5	< 0.2	< 0.5	6	85	< 1	5	3	8	0.33	< 2	< 10	16	< 0.5	< 2	0.35	4	17	1.72	< 10	< 1	0.03	17
PED41593	< 5	< 0.2	< 0.5	25	301	< 1	11	5	40	0.84	< 2	< 10	59	< 0.5	< 2	0.60	8	27	2.31	< 10	< 1	0.30	49
PED41594	< 5	< 0.2	< 0.5	32	279	< 1	13	7	51	1.38	< 2	< 10	62	< 0.5	< 2	0.50	10	28	2.82	< 10	< 1	0.14	37
PED41595	< 5	< 0.2	< 0.5	14	187	< 1	9	5	20	0.45	< 2	< 10	31	< 0.5	< 2	0.49	6	31	3.32	< 10	< 1	0.11	38
PED41596	< 5	< 0.2	< 0.5	6	84	< 1	5	3	8	0.31	< 2	< 10	17	< 0.5	< 2	0.35	4	18	1.80	< 10	< 1	0.03	17
PED41597	< 5	< 0.2	< 0.5	7	102	< 1	6	3	9	0.38	< 2	< 10	18	< 0.5	< 2	0.41	4	23	2.24	< 10	< 1	0.03	19
PED41598	8	< 0.2	< 0.5	22	190	< 1	10	4	25	0.67	< 2	< 10	32	< 0.5	< 2	0.47	6	27	3.00	< 10	< 1	0.10	38
PED41599	< 5	< 0.2	< 0.5	6	87	< 1	4	2	8	0.31	< 2	< 10	18	< 0.5	< 2	0.34	3	16	1.61	< 10	< 1	0.03	17
PED41600	< 5	< 0.2	< 0.5	6	85	< 1	5	< 2	8	0.31	< 2	< 10	16	< 0.5	< 2	0.37	3	19	1.82	< 10	< 1	0.03	16
PED41651	< 5	< 0.2	< 0.5	6	83	< 1	6	2	7	0.33	< 2	< 10	16	< 0.5	< 2	0.37	3	18	1.59	< 10	< 1	0.03	18
PED41652	< 5	< 0.2	< 0.5	6	89	< 1	5	< 2	7	0.32	< 2	< 10	17	< 0.5	< 2	0.40	3	19	1.77	< 10	< 1	0.03	20
PED41653	11	< 0.2	< 0.5	23	207	< 1	12	4	25	0.68	< 2	< 10	34	< 0.5	< 2	0.58	7	34	3.90	< 10	< 1	0.11	33
PED41654	7	< 0.2	< 0.5	29	265	< 1	14	6	49	1.27	< 2	< 10	57	< 0.5	< 2	0.53	9	30	2.99	< 10	< 1	0.14	37
PED41655	5	< 0.2	< 0.5	24	304	< 1	12	5	41	0.86	3	< 10	60	< 0.5	< 2	0.65	8	27	2.26	< 10	2	0.32	52
PED41656	6	< 0.2	< 0.5	38	316	< 1	16	5	43	1.14	< 2	< 10	52	< 0.5	< 2	0.63	11	44	5.25	< 10	< 1	0.15	59
PED41657	< 5	< 0.2	< 0.5	6	91	< 1	6	3	8	0.33	< 2	< 10	17	< 0.5	< 2	0.39	3	20	1.98	< 10	< 1	0.03	18
PED41658	< 5	< 0.2	< 0.5	6	92	< 1	5	3	8	0.33	< 2	< 10	16	< 0.5	< 2	0.40	3	22	2.13	< 10	< 1	0.03	17
PED41659	7	< 0.2	< 0.5	38	266	< 1	13	5	36	0.96	< 2	< 10	43	< 0.5	< 2	0.58	8	35	3.73	< 10	< 1	0.14	48
PED41660	5	< 0.2	< 0.5	6	85	< 1	5	4	8	0.33	< 2	< 10	17	< 0.5	< 2	0.39	3	18	1.73	< 10	< 1	0.03	17
PED41661	< 5	< 0.2	< 0.5	21	249	< 1	15	5	40	1.32	< 2	< 10	54	< 0.5	< 2	0.51	10	30	3.77	< 10	< 1	0.12	30
PED41662	< 5	< 0.2	< 0.5	24	220	< 1	10	4	26	0.78	< 2	< 10	41	< 0.5	< 2	0.56	7	23	2.31	< 10	< 1	0.11	38
PED41663	< 5	< 0.2	< 0.5	25	337	< 1	11	4	42	0.94	< 2	< 10	63	< 0.5	< 2	0.64	9	27	2.34	< 10	< 1	0.31	54
PED41664	< 5	< 0.2	< 0.5	14	197	< 1	13	7	37	1.56	< 2	< 10	60	< 0.5	< 2	0.36	9	24	2.73	< 10	< 1	0.11	26
PED41665	< 5	< 0.2	< 0.5	8	133	< 1	8	2	10	0.28	< 2	< 10	17	< 0.5	< 2	0.47	6	32	3.18	< 10	< 1	0.04	27
PED41666	< 5	< 0.2	< 0.5	8	120	< 1	6	4	10	0.26	< 2	< 10	16	< 0.5	< 2	0.45	5	27	2.85	< 10	< 1	0.03	22
PED41667	< 5	< 0.2	< 0.5	24	325	< 1	10	4	43	0.88	< 2	< 10	63	< 0.5	< 2	0.66	8	28	2.28	< 10	< 1	0.34	58
PED41668	< 5	< 0.2	< 0.5	7	119	< 1	7	3	9	0.27	< 2	< 10	18	< 0.5	< 2	0.45	5	27	2.73	< 10	< 1	0.03	25
PED41669	64	< 0.2	< 0.5	7	119	< 1	6	3	9	0.28	< 2	< 10	19	< 0.5	< 2	0.45	4	23	2.41	< 10	< 1	0.04	25
PED41670	< 5	< 0.2	< 0.5	7	123	< 1	6	3	9	0.27	< 2	< 10	18	< 0.5	< 2	0.47	5	27	2.89	< 10	< 1	0.03	26
PED41671	12	< 0.2	< 0.5	35	253	< 1	10	6	36	0.99	< 2	< 10	50	< 0.5	< 2	0.57	8	21	2.30	< 10	< 1	0.20	51
PED41672	< 5	< 0.2	< 0.5	33	261	< 1	10	6	37	0.99	< 2	< 10	53	< 0.5	< 2	0.58	8	20	2.33	< 10	< 1	0.22	48
PED41673	< 5	< 0.2	< 0.5	26	342	< 1	11	5	42	0.98	< 2	< 10	64	< 0.5	< 2	0.65	8	27	2.40	< 10	< 1	0.32	59
PED41674	< 5	< 0.2	< 0.5	29	256	< 1	10	6	37	1.00	5	< 10	52	< 0.5	< 2	0.57	8	20	2.38	< 10	< 1	0.22	45
PED41675	< 5	< 0.2	< 0.5	30	259	< 1	11	5	38	1.03	< 2	< 10	54	< 0.5	< 2	0.56	8	22	2.46	< 10	< 1	0.22	45
PED41676	< 5	< 0.2	< 0.5	27	279	< 1	9	5	39	0.89	< 2	< 10	57	< 0.5	< 2	0.59	8	18	2.16	< 10	< 1	0.27	57

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41677	< 5	< 0.2	< 0.5	28	345	< 1	12	5	42	0.99	< 2	< 10	65	< 0.5	< 2	0.64	9	27	2.36	< 10	< 1	0.33	59
PED41678	< 5	< 0.2	< 0.5	28	253	< 1	10	5	37	0.94	< 2	< 10	52	< 0.5	< 2	0.57	8	19	2.24	< 10	< 1	0.22	51
PED41679	< 5	< 0.2	< 0.5	28	269	2	10	5	38	0.88	< 2	< 10	55	< 0.5	< 2	0.57	7	18	2.10	< 10	< 1	0.26	56
PED41680	< 5	< 0.2	< 0.5	24	282	< 1	10	4	41	0.87	< 2	< 10	58	< 0.5	< 2	0.61	8	17	2.12	< 10	< 1	0.29	52
PED41681	< 5	< 0.2	< 0.5	26	334	< 1	11	5	41	0.94	< 2	< 10	62	< 0.5	< 2	0.63	9	27	2.28	< 10	< 1	0.31	56
PED41682	82	< 0.2	< 0.5	26	277	< 1	9	5	39	0.87	< 2	< 10	56	< 0.5	< 2	0.57	8	18	2.23	< 10	< 1	0.27	55
PED41683	< 5	< 0.2	< 0.5	27	260	< 1	12	4	38	0.94	< 2	< 10	53	< 0.5	< 2	0.57	8	19	2.34	< 10	< 1	0.24	45
PED41684	< 5	< 0.2	< 0.5	24	329	< 1	10	5	42	0.92	2	< 10	60	< 0.5	< 2	0.62	8	26	2.27	< 10	< 1	0.31	56
PED41685	< 5	< 0.2	< 0.5	8	113	< 1	5	< 2	9	0.29	< 2	< 10	19	< 0.5	< 2	0.38	4	19	1.76	< 10	< 1	0.04	25
PED41686	< 5	< 0.2	< 0.5	24	317	< 1	10	4	42	0.88	< 2	< 10	64	< 0.5	< 2	0.63	8	30	2.27	< 10	< 1	0.33	53
PED41687	< 5	< 0.2	< 0.5	7	105	< 1	5	3	8	0.26	< 2	< 10	19	< 0.5	< 2	0.43	4	22	2.10	< 10	< 1	0.03	25
PED41688	< 5	< 0.2	< 0.5	19	242	< 1	14	6	49	1.86	< 2	< 10	76	< 0.5	< 2	0.43	10	26	3.09	< 10	< 1	0.13	21
PED41689	< 5	< 0.2	< 0.5	17	195	< 1	9	4	21	0.54	< 2	< 10	35	< 0.5	< 2	0.54	6	27	2.99	< 10	< 1	0.12	33
PED41690	< 5	< 0.2	< 0.5	24	230	< 1	10	3	33	0.94	< 2	< 10	37	< 0.5	< 2	0.52	7	21	2.08	< 10	< 1	0.12	40

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41501	0.46	0.026	0.093	< 0.01	2	2	23	0.16	< 20	< 1	< 2	< 10	111	< 10	9	9
PED41502	0.58	0.027	0.078	< 0.01	< 2	2	22	0.17	< 20	< 1	< 2	< 10	59	< 10	7	8
PED41503	0.12	0.020	0.063	< 0.01	< 2	1	15	0.10	< 20	1	< 2	< 10	44	< 10	9	7
PED41504	0.12	0.021	0.067	< 0.01	< 2	1	16	0.10	< 20	2	< 2	< 10	47	< 10	8	7
PED41505	0.55	0.040	0.097	0.01	< 2	3	25	0.16	< 20	3	< 2	< 10	42	< 10	11	10
PED41506	0.11	0.023	0.072	< 0.01	< 2	1	17	0.10	< 20	2	< 2	< 10	49	< 10	8	7
PED41507	0.50	0.032	0.084	< 0.01	< 2	2	21	0.13	< 20	2	< 2	< 10	36	< 10	8	7
PED41508	0.70	0.028	0.073	0.02	< 2	3	24	0.19	< 20	2	< 2	< 10	105	< 10	6	6
PED41509	0.83	0.028	0.082	0.01	3	3	24	0.19	< 20	1	< 2	< 10	118	< 10	7	7
PED41510	0.56	0.041	0.100	0.01	< 2	3	25	0.16	< 20	3	< 2	< 10	42	< 10	11	10
PED41511	0.11	0.022	0.080	< 0.01	< 2	1	17	0.11	< 20	< 1	< 2	< 10	66	< 10	9	7
PED41512	0.11	0.021	0.068	< 0.01	< 2	1	14	0.09	< 20	2	< 2	< 10	47	< 10	8	7
PED41513	0.12	0.023	0.066	< 0.01	< 2	1	17	0.10	< 20	2	< 2	< 10	50	< 10	9	7
PED41514	0.64	0.037	0.093	< 0.01	< 2	3	26	0.16	< 20	< 1	< 2	< 10	70	< 10	8	5
PED41515	0.12	0.023	0.074	< 0.01	< 2	1	17	0.11	< 20	3	< 2	< 10	46	< 10	9	7
PED41516	0.12	0.020	0.052	< 0.01	< 2	< 1	13	0.09	< 20	< 1	< 2	< 10	39	< 10	7	6
PED41517	0.54	0.041	0.104	< 0.01	< 2	2	24	0.16	< 20	1	< 2	< 10	42	< 10	11	10
PED41518	0.56	0.024	0.080	0.01	< 2	3	22	0.15	< 20	< 1	< 2	< 10	62	< 10	6	5
PED41519	0.84	0.029	0.081	0.01	4	3	25	0.20	< 20	2	< 2	< 10	139	< 10	7	8
PED41520	0.61	0.028	0.074	0.01	2	3	23	0.18	< 20	< 1	< 2	< 10	99	< 10	6	6
PED41521	0.57	0.042	0.090	0.01	< 2	3	25	0.15	< 20	2	< 2	< 10	40	< 10	10	10
PED41522	0.49	0.032	0.081	< 0.01	< 2	2	23	0.14	< 20	3	< 2	< 10	44	< 10	9	7
PED41523	0.49	0.032	0.084	< 0.01	< 2	2	23	0.14	< 20	6	< 2	< 10	43	< 10	9	8
PED41524	0.11	0.025	0.068	< 0.01	< 2	1	17	0.10	< 20	< 1	< 2	< 10	42	< 10	8	7
PED41525	0.50	0.031	0.084	< 0.01	< 2	2	22	0.14	< 20	2	< 2	< 10	44	< 10	10	8
PED41526	0.49	0.030	0.082	< 0.01	< 2	2	23	0.14	< 20	2	< 2	< 10	42	< 10	9	8
PED41527	0.55	0.042	0.094	< 0.01	< 2	3	25	0.15	< 20	< 1	< 2	< 10	41	< 10	10	9
PED41528	0.57	0.035	0.075	< 0.01	< 2	3	25	0.16	< 20	3	< 2	< 10	54	< 10	8	6
PED41529	0.55	0.042	0.090	< 0.01	< 2	3	25	0.15	< 20	5	< 2	< 10	41	< 10	10	8
PED41530	0.47	0.033	0.081	< 0.01	< 2	2	24	0.14	< 20	1	< 2	< 10	44	< 10	9	8
PED41531	0.12	0.026	0.063	< 0.01	< 2	1	15	0.09	< 20	1	< 2	< 10	35	< 10	8	6
PED41532	0.11	0.022	0.076	< 0.01	< 2	1	16	0.10	< 20	1	< 2	< 10	50	< 10	8	7
PED41533	0.10	0.023	0.058	< 0.01	< 2	< 1	14	0.09	< 20	2	< 2	< 10	36	< 10	7	6
PED41534	0.10	0.020	0.051	< 0.01	< 2	< 1	13	0.08	< 20	3	< 2	< 10	26	< 10	6	6
PED41535	0.39	0.027	0.078	0.01	< 2	2	21	0.13	< 20	4	< 2	< 10	53	< 10	5	3
PED41536	0.49	0.034	0.086	< 0.01	< 2	2	24	0.14	< 20	3	< 2	< 10	41	< 10	9	7
PED41537	0.51	0.034	0.073	< 0.01	4	2	23	0.15	< 20	2	< 2	< 10	42	< 10	9	8
PED41538	0.57	0.041	0.095	< 0.01	< 2	3	26	0.15	< 20	4	< 2	< 10	43	< 10	10	7
PED41539	0.56	0.039	0.096	< 0.01	< 2	3	25	0.15	20	< 1	< 2	< 10	44	< 10	10	7
PED41540	0.58	0.039	0.086	< 0.01	< 2	3	25	0.16	< 20	3	< 2	< 10	42	< 10	9	10
PED41541	0.58	0.036	0.088	< 0.01	< 2	3	24	0.15	< 20	< 1	< 2	< 10	43	< 10	9	9
PED41542	0.53	0.035	0.092	< 0.01	< 2	2	24	0.15	< 20	4	< 2	< 10	41	< 10	9	8

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41543	0.60	0.043	0.097	0.01	< 2	3	26	0.16	< 20	3	< 2	< 10	44	< 10	10	9
PED41544	0.69	0.030	0.082	0.01	< 2	3	23	0.18	< 20	3	< 2	< 10	67	< 10	7	6
PED41545	0.56	0.044	0.092	< 0.01	< 2	3	26	0.15	< 20	2	< 2	< 10	41	< 10	10	8
PED41546	0.59	0.044	0.089	0.01	< 2	3	26	0.16	< 20	2	< 2	< 10	42	< 10	10	9
PED41547	0.55	0.038	0.091	< 0.01	< 2	3	25	0.15	< 20	2	< 2	< 10	43	< 10	9	9
PED41548	0.54	0.038	0.086	< 0.01	< 2	2	24	0.15	< 20	6	< 2	< 10	42	< 10	9	9
PED41549	0.52	0.035	0.090	< 0.01	3	2	24	0.15	< 20	1	< 2	< 10	45	< 10	9	9
PED41550	0.52	0.035	0.089	< 0.01	< 2	2	23	0.15	20	2	< 2	< 10	43	< 10	9	8
PED41551	0.55	0.036	0.089	< 0.01	< 2	3	24	0.15	< 20	3	< 2	< 10	46	< 10	9	8
PED41552	0.44	0.031	0.072	0.01	< 2	3	21	0.14	< 20	2	< 2	< 10	56	< 10	5	4
PED41553	0.55	0.043	0.097	< 0.01	< 2	3	25	0.16	< 20	4	< 2	< 10	43	< 10	10	9
PED41554	0.45	0.033	0.083	< 0.01	< 2	2	23	0.13	< 20	3	< 2	< 10	42	< 10	9	7
PED41555	0.48	0.036	0.084	< 0.01	< 2	2	24	0.14	< 20	3	< 2	< 10	41	< 10	9	9
PED41556	0.29	0.030	0.088	< 0.01	< 2	2	22	0.14	< 20	3	< 2	< 10	93	< 10	10	7
PED41557	0.56	0.038	0.096	< 0.01	< 2	3	25	0.15	< 20	3	< 2	< 10	42	< 10	10	10
PED41558	0.58	0.042	0.102	< 0.01	< 2	3	25	0.15	< 20	3	< 2	< 10	41	< 10	11	7
PED41559	0.53	0.035	0.089	< 0.01	< 2	2	24	0.14	< 20	2	< 2	< 10	39	< 10	10	7
PED41560	0.49	0.034	0.089	< 0.01	< 2	2	23	0.14	< 20	2	< 2	< 10	40	< 10	9	7
PED41561	0.56	0.042	0.094	< 0.01	< 2	3	25	0.15	< 20	< 1	< 2	< 10	44	< 10	10	7
PED41562	0.57	0.042	0.093	< 0.01	< 2	3	26	0.16	20	4	< 2	< 10	41	< 10	10	9
PED41563	0.33	0.027	0.061	< 0.01	< 2	2	21	0.13	< 20	3	< 2	< 10	41	< 10	7	7
PED41564	0.53	0.042	0.096	< 0.01	< 2	2	25	0.15	< 20	3	< 2	< 10	41	< 10	10	7
PED41565	0.54	0.037	0.094	< 0.01	< 2	3	25	0.15	< 20	2	< 2	< 10	44	< 10	9	9
PED41566	0.58	0.040	0.093	< 0.01	< 2	3	25	0.16	< 20	2	< 2	< 10	46	< 10	10	10
PED41567	0.53	0.039	0.092	< 0.01	< 2	3	26	0.16	< 20	5	< 2	< 10	43	< 10	9	10
PED41568	0.54	0.038	0.095	< 0.01	< 2	3	25	0.15	< 20	2	< 2	< 10	45	< 10	9	8
PED41569	0.57	0.042	0.096	< 0.01	< 2	3	26	0.15	< 20	3	< 2	< 10	44	< 10	11	9
PED41570	0.52	0.037	0.091	< 0.01	< 2	2	25	0.16	< 20	4	< 2	< 10	47	< 10	9	8
PED41571	0.57	0.042	0.095	< 0.01	< 2	3	25	0.16	< 20	< 1	< 2	< 10	43	< 10	10	9
PED41572	0.56	0.041	0.097	< 0.01	< 2	3	26	0.16	< 20	2	< 2	< 10	43	< 10	10	10
PED41573	0.38	0.027	0.071	< 0.01	< 2	2	21	0.13	< 20	2	< 2	< 10	37	< 10	8	7
PED41574	0.50	0.034	0.090	< 0.01	< 2	2	24	0.15	< 20	2	< 2	< 10	46	< 10	9	8
PED41575	0.49	0.034	0.088	< 0.01	< 2	2	24	0.13	< 20	2	< 2	< 10	43	< 10	9	6
PED41576	0.43	0.033	0.079	< 0.01	< 2	2	23	0.13	< 20	3	< 2	< 10	39	< 10	8	8
PED41577	0.53	0.043	0.096	< 0.01	< 2	3	26	0.15	< 20	4	< 2	< 10	41	< 10	11	8
PED41578	0.11	0.024	0.078	< 0.01	< 2	1	18	0.10	< 20	3	< 2	< 10	39	< 10	8	6
PED41579	0.11	0.024	0.085	< 0.01	< 2	1	18	0.10	< 20	2	< 2	< 10	42	< 10	8	6
PED41580	0.36	0.028	0.094	< 0.01	< 2	2	22	0.14	< 20	< 1	< 2	< 10	81	< 10	10	8
PED41581	0.50	0.039	0.090	0.01	< 2	2	24	0.14	< 20	2	< 2	< 10	42	< 10	10	8
PED41582	0.11	0.024	0.076	< 0.01	< 2	1	18	0.10	< 20	< 1	< 2	< 10	42	< 10	8	6
PED41583	0.12	0.023	0.079	< 0.01	< 2	1	18	0.10	< 20	5	< 2	< 10	45	< 10	8	6
PED41584	0.11	0.023	0.057	< 0.01	< 2	< 1	15	0.09	< 20	1	< 2	< 10	27	< 10	6	5

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41585	0.35	0.031	0.105	< 0.01	< 2	2	23	0.14	< 20	< 1	< 2	< 10	62	< 10	10	7
PED41586	0.55	0.044	0.093	< 0.01	< 2	3	26	0.15	< 20	3	< 2	< 10	38	< 10	10	6
PED41587	0.11	0.024	0.059	< 0.01	< 2	< 1	14	0.09	< 20	2	< 2	< 10	26	< 10	6	5
PED41588	0.11	0.023	0.082	< 0.01	< 2	1	17	0.10	< 20	3	< 2	< 10	41	< 10	7	6
PED41589	0.11	0.021	0.076	< 0.01	< 2	1	15	0.10	< 20	1	< 2	< 10	38	< 10	7	6
PED41590	0.11	0.020	0.067	< 0.01	< 2	1	15	0.10	< 20	2	< 2	< 10	36	< 10	7	5
PED41591	0.12	0.022	0.073	< 0.01	< 2	1	16	0.09	< 20	< 1	< 2	< 10	37	< 10	7	5
PED41592	0.12	0.021	0.059	< 0.01	< 2	1	15	0.09	< 20	2	< 2	< 10	34	< 10	7	5
PED41593	0.53	0.041	0.087	< 0.01	< 2	2	25	0.12	< 20	2	< 2	< 10	41	< 10	10	3
PED41594	0.59	0.036	0.073	< 0.01	< 2	3	25	0.14	< 20	2	< 2	< 10	52	< 10	7	3
PED41595	0.26	0.028	0.065	< 0.01	< 2	2	22	0.12	< 20	3	< 2	< 10	62	< 10	10	7
PED41596	0.11	0.020	0.062	< 0.01	< 2	1	15	0.10	< 20	1	< 2	< 10	35	< 10	7	6
PED41597	0.13	0.024	0.075	< 0.01	< 2	1	17	0.10	< 20	2	< 2	< 10	43	< 10	8	6
PED41598	0.37	0.028	0.066	< 0.01	< 2	2	22	0.15	< 20	3	< 2	< 10	57	< 10	9	7
PED41599	0.12	0.023	0.059	< 0.01	< 2	1	15	0.09	< 20	1	< 2	< 10	31	< 10	6	5
PED41600	0.11	0.022	0.066	< 0.01	< 2	1	16	0.09	< 20	1	< 2	< 10	35	< 10	7	5
PED41651	0.11	0.022	0.064	< 0.01	< 2	1	16	0.09	< 20	2	< 2	< 10	31	< 10	7	6
PED41652	0.11	0.023	0.069	< 0.01	< 2	1	17	0.10	< 20	3	< 2	< 10	35	< 10	8	6
PED41653	0.36	0.030	0.097	< 0.01	< 2	2	23	0.14	< 20	1	< 2	< 10	73	< 10	9	7
PED41654	0.55	0.036	0.078	< 0.01	< 2	3	26	0.15	< 20	< 1	< 2	< 10	57	< 10	8	5
PED41655	0.55	0.042	0.105	< 0.01	< 2	3	27	0.15	< 20	2	< 2	< 10	41	< 10	11	9
PED41656	0.64	0.033	0.113	< 0.01	< 2	3	26	0.17	< 20	< 1	< 2	< 10	96	< 10	10	8
PED41657	0.11	0.022	0.071	< 0.01	< 2	1	17	0.09	< 20	< 1	< 2	< 10	38	< 10	7	6
PED41658	0.11	0.022	0.069	< 0.01	< 2	1	16	0.10	< 20	4	< 2	< 10	41	< 10	7	6
PED41659	0.52	0.032	0.100	< 0.01	< 2	2	24	0.15	< 20	< 1	< 2	< 10	70	< 10	10	7
PED41660	0.12	0.023	0.069	< 0.01	< 2	1	16	0.09	< 20	< 1	< 2	< 10	34	< 10	7	6
PED41661	0.57	0.030	0.089	< 0.01	< 2	3	24	0.16	< 20	3	< 2	< 10	69	< 10	7	7
PED41662	0.41	0.029	0.097	< 0.01	< 2	2	23	0.14	< 20	2	< 2	< 10	44	< 10	9	7
PED41663	0.56	0.041	0.105	< 0.01	< 2	3	26	0.16	< 20	< 1	< 2	< 10	43	< 10	11	9
PED41664	0.46	0.038	0.065	< 0.01	< 2	2	22	0.15	< 20	3	< 2	< 10	51	< 10	7	6
PED41665	0.13	0.022	0.079	< 0.01	< 2	1	18	0.10	< 20	< 1	< 2	< 10	59	< 10	9	7
PED41666	0.12	0.022	0.071	< 0.01	< 2	1	18	0.11	< 20	2	< 2	< 10	53	< 10	9	7
PED41667	0.58	0.045	0.102	< 0.01	< 2	3	28	0.16	< 20	3	< 2	< 10	42	< 10	11	9
PED41668	0.12	0.023	0.076	< 0.01	< 2	1	18	0.10	< 20	2	< 2	< 10	52	< 10	9	7
PED41669	0.12	0.023	0.076	< 0.01	< 2	1	19	0.10	< 20	< 1	< 2	< 10	45	< 10	9	7
PED41670	0.12	0.023	0.077	< 0.01	< 2	1	18	0.11	< 20	4	< 2	< 10	55	< 10	9	7
PED41671	0.49	0.032	0.091	< 0.01	< 2	2	25	0.15	< 20	3	< 2	< 10	43	< 10	9	8
PED41672	0.51	0.035	0.092	< 0.01	< 2	2	26	0.14	< 20	4	< 2	< 10	43	< 10	9	7
PED41673	0.57	0.042	0.103	< 0.01	< 2	3	27	0.16	< 20	< 1	< 2	< 10	43	< 10	11	8
PED41674	0.49	0.034	0.092	< 0.01	< 2	2	25	0.15	< 20	1	< 2	< 10	44	< 10	9	8
PED41675	0.51	0.033	0.092	< 0.01	< 2	2	25	0.14	< 20	2	< 2	< 10	45	< 10	9	7
PED41676	0.52	0.037	0.096	< 0.01	< 2	2	26	0.14	< 20	2	< 2	< 10	40	< 10	10	6

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41677	0.58	0.045	0.099	< 0.01	< 2	3	28	0.17	< 20	3	< 2	< 10	43	< 10	11	8
PED41678	0.49	0.034	0.085	< 0.01	< 2	2	26	0.14	< 20	3	< 2	< 10	42	< 10	9	7
PED41679	0.51	0.035	0.088	< 0.01	< 2	2	26	0.14	< 20	3	< 2	< 10	39	< 10	10	6
PED41680	0.54	0.037	0.097	< 0.01	< 2	3	26	0.14	< 20	3	< 2	< 10	39	< 10	10	5
PED41681	0.56	0.043	0.097	0.01	< 2	3	26	0.15	30	1	< 2	< 10	41	< 10	12	6
PED41682	0.52	0.033	0.094	< 0.01	< 2	2	24	0.14	< 20	< 1	< 2	< 10	40	< 10	10	8
PED41683	0.51	0.034	0.089	< 0.01	< 2	2	25	0.15	< 20	3	< 2	< 10	43	< 10	9	8
PED41684	0.55	0.040	0.098	< 0.01	< 2	3	26	0.15	< 20	2	< 2	< 10	42	< 10	11	6
PED41685	0.13	0.022	0.056	< 0.01	< 2	1	15	0.09	< 20	3	< 2	< 10	34	< 10	8	6
PED41686	0.57	0.045	0.098	< 0.01	< 2	3	27	0.15	< 20	2	< 2	< 10	41	< 10	11	5
PED41687	0.11	0.024	0.073	< 0.01	< 2	1	17	0.10	< 20	3	< 2	< 10	41	< 10	8	6
PED41688	0.57	0.031	0.074	< 0.01	< 2	3	25	0.16	< 20	4	< 2	< 10	56	< 10	7	5
PED41689	0.30	0.032	0.077	< 0.01	< 2	2	23	0.13	< 20	4	< 2	< 10	55	< 10	10	7
PED41690	0.53	0.030	0.076	< 0.01	< 2	2	25	0.15	< 20	2	< 2	< 10	41	< 10	8	7

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-4 Meas		3.7	< 0.5	6450	141	332	40	38	69	2.79	101	< 10	27	1.4	15	0.95	16	50	3.02	< 10	< 1	1.66	45
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.7	< 0.5	6560	145	337	42	38	69	2.83	101	< 10	34	1.4	15	0.95	16	52	3.13	< 10	< 1	1.70	44
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.3	< 0.5	69	1050	2	25	82	119	7.17	240	< 10	924	0.9	< 2	0.15	15	73	5.56	10	3	1.16	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.3	0.5	73	1080	2	25	84	120	7.44	232	< 10	944	0.9	< 2	0.16	15	75	5.75	10	3	1.19	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
SdAR-M2 (U.S.G.S.) Meas			5.7	252		15	49	806	860				143	5.3	< 2		16	9		< 10	1		43
SdAR-M2 (U.S.G.S.) Cert			5.1	236.00 00		13	49	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas			5.6	250		15	48	793	839				143	5.3	< 2		16	9		< 10	1		43
SdAR-M2 (U.S.G.S.) Cert			5.1	236.00 00		13	49	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
OREAS 218 Meas	521																						
OREAS 218 Cert	525																						
OREAS 218 Meas	555																						
OREAS 218 Cert	525																						
OREAS 218 Meas	531																						
OREAS 218 Cert	525																						
OREAS 218 Meas	528																						
OREAS 218 Cert	525																						
OREAS 224 (Fire Assay) Meas	2140																						
OREAS 224 (Fire Assay) Cert	2150																						
OREAS 224 (Fire Assay) Meas	2100																						
OREAS 224 (Fire Assay) Cert	2150																						
OREAS 224 (Fire Assay) Meas	2120																						
OREAS 224 (Fire Assay) Cert	2150																						
OREAS 224 (Fire Assay) Meas	2050																						
OREAS 224 (Fire Assay) Cert	2150																						
PED41510 Orig	< 5																						
PED41510 Dup	< 5																						
PED41513 Orig		< 0.2	< 0.5	8	130	< 1	7	3	9	0.26	< 2	< 10	18	< 0.5	< 2	0.41	5	22	2.50	< 10	< 1	0.04	22
PED41513 Dup		< 0.2	< 0.5	9	134	< 1	7	3	9	0.27	< 2	< 10	19	< 0.5	< 2	0.42	5	25	2.81	< 10	< 1	0.04	26
PED41520 Orig	< 5																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41520 Dup	< 5																						
PED41527 Orig		< 0.2	< 0.5	25	321	< 1	11	6	42	0.93	< 2	< 10	65	< 0.5	< 2	0.59	8	27	2.29	< 10	< 1	0.31	51
PED41527 Dup		< 0.2	< 0.5	25	331	< 1	12	6	42	0.94	< 2	< 10	66	< 0.5	< 2	0.60	8	27	2.28	< 10	< 1	0.32	52
PED41530 Orig	< 5																						
PED41530 Dup	< 5																						
PED41540 Orig		< 0.2	< 0.5	25	301	< 1	11	5	43	0.98	< 2	< 10	67	< 0.5	< 2	0.57	9	18	2.32	< 10	< 1	0.33	50
PED41540 Dup		< 0.2	< 0.5	23	285	< 1	10	5	42	0.93	< 2	< 10	64	< 0.5	< 2	0.55	8	20	2.24	< 10	< 1	0.32	44
PED41545 Orig	8																						
PED41545 Dup	< 5																						
PED41554 Orig		< 0.2	< 0.5	27	235	< 1	10	5	34	0.90	< 2	< 10	51	< 0.5	< 2	0.51	7	21	2.36	< 10	< 1	0.20	45
PED41554 Dup		< 0.2	< 0.5	27	233	< 1	10	6	34	0.89	< 2	< 10	49	< 0.5	< 2	0.52	7	20	2.27	< 10	< 1	0.19	43
PED41555 Orig	< 5																						
PED41555 Dup	< 5																						
PED41565 Orig	< 5																						
PED41565 Dup	< 5																						
PED41577 Orig		< 0.2	< 0.5	22	304	< 1	10	5	40	0.80	< 2	< 10	59	< 0.5	< 2	0.63	8	25	2.28	< 10	< 1	0.31	51
PED41577 Dup		< 0.2	< 0.5	24	307	< 1	10	4	41	0.82	< 2	< 10	60	< 0.5	< 2	0.62	8	28	2.37	< 10	< 1	0.32	49
PED41580 Orig	50																						
PED41580 Dup	< 5																						
PED41590 Orig	< 5																						
PED41590 Dup	< 5																						
PED41591 Orig		< 0.2	< 0.5	6	88	< 1	5	10	8	0.32	< 2	< 10	16	< 0.5	< 2	0.40	3	20	1.90	< 10	< 1	0.03	19
PED41591 Dup		< 0.2	< 0.5	6	91	< 1	5	12	8	0.33	< 2	< 10	16	< 0.5	< 2	0.40	3	19	1.97	< 10	< 1	0.03	19
PED41600 Orig	< 5																						
PED41600 Dup	< 5																						
PED41654 Orig		< 0.2	< 0.5	29	262	< 1	14	7	48	1.25	< 2	< 10	58	< 0.5	< 2	0.53	9	29	2.96	< 10	< 1	0.14	36
PED41654 Dup		< 0.2	< 0.5	30	268	< 1	14	5	50	1.28	< 2	< 10	57	< 0.5	< 2	0.53	9	31	3.03	< 10	< 1	0.14	37
PED41665 Orig	< 5																						
PED41665 Dup	< 5																						
PED41668 Orig		< 0.2	< 0.5	7	117	< 1	7	3	8	0.27	< 2	< 10	18	< 0.5	< 2	0.43	5	26	2.68	< 10	< 1	0.03	23
PED41668 Dup		< 0.2	< 0.5	7	122	< 1	6	3	9	0.27	< 2	< 10	19	< 0.5	< 2	0.47	5	27	2.79	< 10	< 1	0.04	26
PED41675 Orig	< 5																						
PED41675 Dup	< 5																						
PED41685 Orig	< 5																						
PED41685 Dup	< 5																						
PED41687 Orig		< 0.2	< 0.5	7	110	< 1	6	4	8	0.26	< 2	< 10	19	< 0.5	< 2	0.45	4	24	2.37	< 10	< 1	0.03	27
PED41687 Dup		< 0.2	< 0.5	6	99	< 1	5	2	7	0.26	< 2	< 10	18	< 0.5	< 2	0.41	4	20	1.82	< 10	< 1	0.03	23
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-4 Meas	1.62	0.137	0.121	1.82	3	7	66	0.12	< 20	2	3	< 10	69	11	12	9
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	1.66	0.140	0.120	1.79	3	7	66	0.12	< 20	2	3	< 10	71	12	12	9
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.42	0.090	0.033	0.01	3	19	27		< 20	< 1	< 2	< 10	148	< 10	5	10
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	0.43	0.090	0.033	0.01	2	20	28		< 20	< 1	< 2	< 10	152	< 10	5	9
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
SdAR-M2 (U.S.G.S.) Meas						2	21		< 20			< 10	17	< 10	19	7
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259
SdAR-M2 (U.S.G.S.) Meas						2	21		< 20			< 10	17	< 10	19	7
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259
OREAS 218 Meas																
OREAS 218 Cert																
OREAS 218 Meas																
OREAS 218 Cert																
OREAS 218 Meas																
OREAS 218 Cert																
OREAS 218 Meas																
OREAS 218 Cert																
OREAS 224 (Fire Assay) Meas																
OREAS 224 (Fire Assay) Cert																
OREAS 224 (Fire Assay) Meas																
OREAS 224 (Fire Assay) Cert																
OREAS 224 (Fire Assay) Meas																
OREAS 224 (Fire Assay) Cert																
OREAS 224 (Fire Assay) Meas																
OREAS 224 (Fire Assay) Cert																
PED41510 Orig																
PED41510 Dup																
PED41513 Orig	0.12	0.023	0.066	< 0.01	< 2	1	17	0.10	< 20	2	< 2	< 10	47	< 10	9	7
PED41513 Dup	0.12	0.024	0.066	< 0.01	< 2	1	17	0.11	< 20	2	< 2	< 10	53	< 10	9	7
PED41520 Orig																

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PED41520 Dup																
PED41527 Orig	0.55	0.041	0.095	< 0.01	< 2	3	25	0.15	< 20	3	< 2	< 10	42	< 10	10	9
PED41527 Dup	0.55	0.043	0.093	< 0.01	< 2	3	25	0.15	< 20	< 1	< 2	< 10	41	< 10	10	9
PED41530 Orig																
PED41530 Dup																
PED41540 Orig	0.59	0.041	0.085	< 0.01	< 2	3	25	0.16	< 20	3	< 2	< 10	42	< 10	10	9
PED41540 Dup	0.57	0.037	0.086	< 0.01	< 2	2	24	0.15	< 20	2	< 2	< 10	41	< 10	9	10
PED41545 Orig																
PED41545 Dup																
PED41554 Orig	0.45	0.034	0.082	< 0.01	< 2	2	23	0.13	< 20	4	< 2	< 10	43	< 10	9	7
PED41554 Dup	0.45	0.032	0.084	< 0.01	< 2	2	23	0.13	< 20	3	< 2	< 10	42	< 10	9	7
PED41555 Orig																
PED41555 Dup																
PED41565 Orig																
PED41565 Dup																
PED41577 Orig	0.52	0.041	0.097	0.01	< 2	3	26	0.15	< 20	3	< 2	< 10	42	< 10	11	10
PED41577 Dup	0.54	0.044	0.096	< 0.01	< 2	3	25	0.15	< 20	6	< 2	< 10	41	< 10	10	6
PED41580 Orig																
PED41580 Dup																
PED41590 Orig																
PED41590 Dup																
PED41591 Orig	0.11	0.021	0.073	< 0.01	< 2	1	15	0.09	< 20	< 1	< 2	< 10	37	< 10	7	6
PED41591 Dup	0.12	0.022	0.073	< 0.01	< 2	1	16	0.09	< 20	2	< 2	< 10	38	< 10	8	5
PED41600 Orig																
PED41600 Dup																
PED41654 Orig	0.54	0.037	0.076	< 0.01	< 2	3	25	0.15	< 20	4	< 2	< 10	56	< 10	8	4
PED41654 Dup	0.56	0.034	0.081	< 0.01	< 2	3	26	0.15	< 20	< 1	< 2	< 10	58	< 10	8	5
PED41665 Orig																
PED41665 Dup																
PED41668 Orig	0.12	0.022	0.070	< 0.01	< 2	1	17	0.10	< 20	2	< 2	< 10	51	< 10	8	7
PED41668 Dup	0.12	0.024	0.081	< 0.01	< 2	1	18	0.11	< 20	2	< 2	< 10	53	< 10	9	7
PED41675 Orig																
PED41675 Dup																
PED41685 Orig																
PED41685 Dup																
PED41687 Orig	0.11	0.024	0.079	< 0.01	< 2	1	18	0.10	< 20	4	< 2	< 10	45	< 10	9	6
PED41687 Dup	0.11	0.023	0.067	< 0.01	< 2	1	17	0.09	< 20	2	< 2	< 10	36	< 10	8	6
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank																
Method Blank																
Method Blank																
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1