

BC Geological Survey Assessment Report 42538



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Irene Trend Project: Mt. Irene Area – 2024 Geochemical Sampling Report

TOTAL COST: \$3,145.48

AUTHOR(S): Doug Warkentin

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N/A

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 6038135/21 Sep-24, 6060764/12 Mar-25.

YEAR OF WORK: 2024

PROPERTY NAME: Irene Trend

CLAIM NAME(S) (on which work was done): Char Basin, Char South, Char M, Low Char

COMMODITIES SOUGHT: Au, Ag, Cu, Co

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 082FSE053, 082FSE080, 082FSE134.

MINING DIVISION: Nelson

NTS / BCGS: 082F/02

LATITUDE: 49° 3' 40"

LONGITUDE: 116° 58' 21" (at centre of work)

UTM Zone: 11 **EASTING:** 502000 **NORTHING:** 5434250

OWNER(S): Doug Warkentin

MAILING ADDRESS: 7069 McBride St., Burnaby, BC, V5E 1R1

OPERATOR(S) [who paid for the work]: Crucible Resources Ltd.

MAILING ADDRESS: 7069 McBride St., Burnaby, BC, V5E 1R1

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**): Late Proterozoic, Cretaceous, Windermere Supergroup, Irene Formation, Toby Formation, Anstey Pluton, Summit Stock, Greenstones, Granodiorites, Volcanics, Quartz Veins, Chalcopyrite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 22054, 26797, 32961, 34161, 37655 and 38709, 39596, 40478, 41215, 42176.

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil	15 samples, ICP-MS	Char Basin, Char South	\$1,829.36
Silt			
Rock	4 samples, ICP-MS	Char Basin, Char South, Char M, Low Char	\$487.83
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying	19 samples, prep and ICP-MS analysis	Char Basin, Char South, Low Char, Char M	\$828.30
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
		TOTAL COST	\$3,145.48

Irene Trend Project

Nelson Mining Division
NTS 082F/02

Project Area Location:
UTM NAD 83: Zone 11, 502000 East, 5434250 North

Registered Owner: Doug Warkentin
Operator: Crucible Resources Ltd.

Mt. Irene Area – 2024 Geochemical Sampling Report

Project Tenure Numbers:

1089643, 1094338, 1100749, 1100807, 1104315, 1104316, 1104317, 1107325, 1107538,
1110934, 1116073 and 1116075

SOW Event Numbers: 6038135 and 6060764

February 16, 2025

Prepared By: Doug Warkentin, P.Eng

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Introduction

Location and Access

The Irene Trend property lies at the south end of the Nelson Range of the Selkirk Mountains, approximately 28 km east southeast of the community of Salmo and 33 km west of Creston, in the Kootenay Pass area. The property lies less than 4 km from the pass, on the east side. The general project location is shown in Figure 1.

Access to the property is via forestry roads from the Salmo-Creston Highway (BC Hwy 3), which lies to the north of the property. At its closest point, the highway passes within 1.5 km of the property, in the Char Creek area. There is road access to the south end of the property via the Maryland Creek Forest Service Road (FSR) system, which leaves the highway approximately 15 km east of the pass. The northern part of the property is reached directly from Highway 3 by the Char Creek FSR, about 8 km from the pass. The Maryland Creek FSR climbs back up to the southwest over a lower pass and then turns south into the Priest River drainage. About 4 km south of this pass, and only 3 km north of the international boundary, this road meets the Monk Creek FSR, which follows Monk Creek in a westerly direction back toward Kootenay Pass. The Monk Creek FSR passes near the southern property boundary, where logging and powerline access spur roads climb the steep hillside, providing direct access into the south part of the property. The Maryland and Monk Creek FSR's are maintained forestry routes and are passable in summer months by 2WD vehicles.

The Char Creek FSR runs south from the highway up the Char Creek drainage. The lowest portion of this road remains passable to 4WD vehicles while upper sections are not active but are maintained as snowmobile trails, allowing ATV access in the summer. This network of trails and other old overgrown logging spurs provides access to the north and central portions of the property.

The claim area extends from the Monk Creek drainage in the south across the ridge that forms the height of land on the west flank of Mt. Irene, and extends northward to include the ridge on the west side of the Char Creek drainage, which flows north into Summit Creek adjacent to the highway.

The property is generally high elevation and includes steep mountainous topography and shallow headwaters basins, ranging from an elevation of 1440 meters along Char Creek to 2000 meters on the west flank of Mt. Irene. The property includes relatively recent clear cuts, but is otherwise heavily forest covered at lower elevations, with sub-alpine vegetation at higher elevations.

In addition to forestry uses, some of the road access is used to service power transmission lines which traverse the area. A major transmission line passes along the south boundary of the property, on the north side of the Monk Creek drainage, while a second line follows Summit Creek and the highway, 1.2 kilometres north of the property.

Stagleap Provincial Park, which includes the Kootenay Pass area, lies less than 2 km from the western boundary of the project claim area.

Tenure Information

The area of the Irene Trend Project is made up of twelve contiguous MTO claims on the western slopes of Mt. Irene between Summit Creek and Monk Creek covering a total area of 847 hectares. The claims are owned by the author, and Crucible Resources Ltd. has an option to acquire 100%

ownership. The claim details are shown in Table 1. The expiry dates shown in this table reflect the application of work described in this report.

Historically the only crown granted mineral claims in the area were five claims granted in 1959 to L.R. Clubine, who worked in this area from the 1920's to the 1950's. These claims (known as the Copper Queen and Copper Queen No. 1 to No. 4) reverted to the crown in 1987, leaving no known legacy mineral tenures in the area.



Figure 1 – Irene Trend Project Location Map

Figure 2 outlines the tenures of the Irene Trend Project.

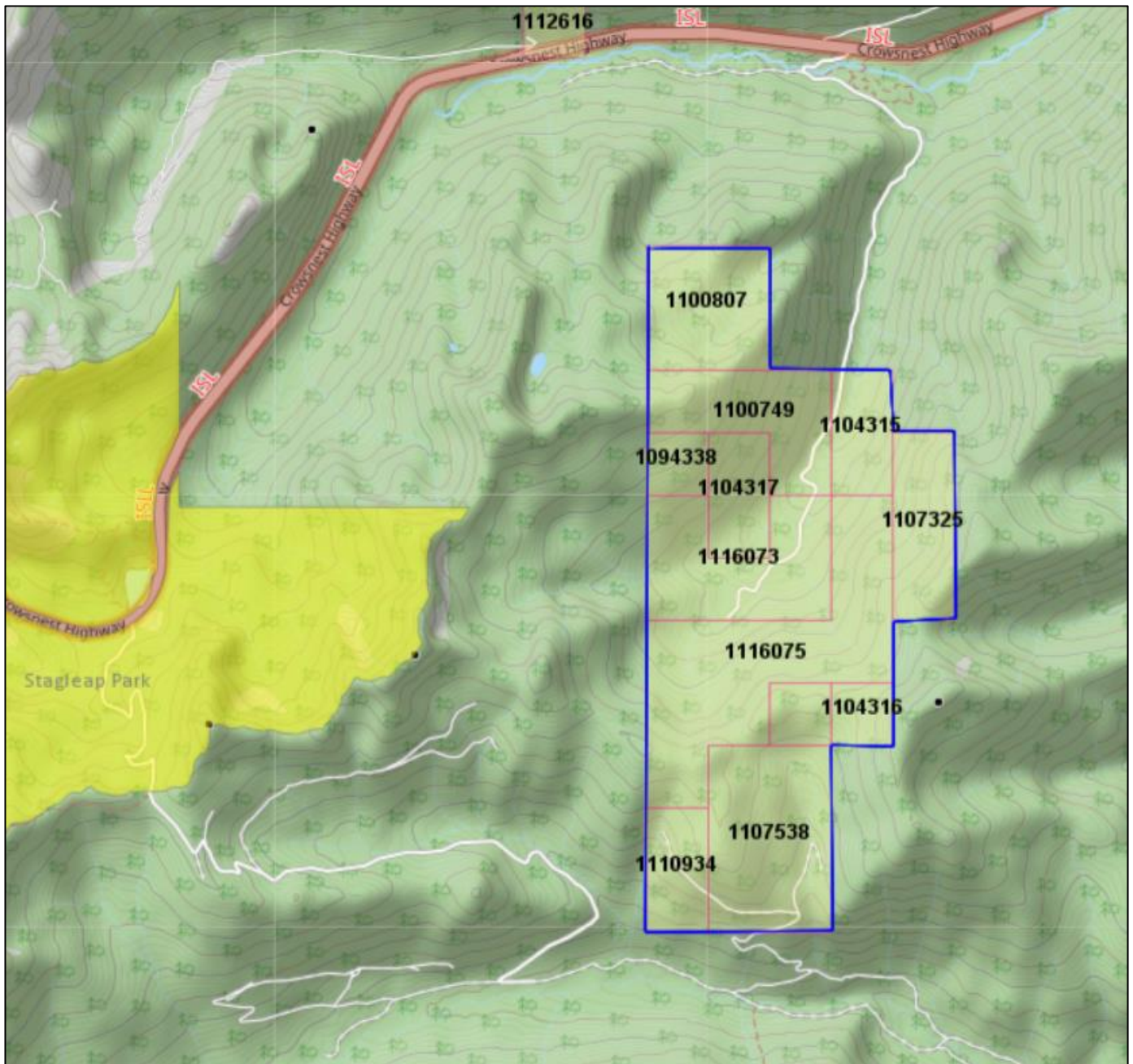


Figure 2 – Project Tenures (outlined in blue)

Table 1 – Irene Trend Project - Mineral Tenures

Title Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
1089643	UPLINC	145582 (100%)	082F	2022/JAN/20	2025/OCT/17	21.17
1094338	CHAR TREND	145582 (100%)	082F	2022/MAR/29	2025/OCT/17	21.16
1100749	CHAR M	145582 (100%)	082F	2023/JAN/21	2025/OCT/17	84.64
1100807	CHARGOLD	145582 (100%)	082F	2023/JAN/21	2025/OCT/17	84.63
1104315	Low Char	145582 (100%)	082F	2023/MAY/21	2025/OCT/17	42.32
1104316	Mt Irene W	145582 (100%)	082F	2023/MAY/21	2025/OCT/17	21.17
1104317	Char W	145582 (100%)	082F	2023/MAY/21	2025/OCT/17	42.33
1107325	Irene Ridge	145582 (100%)	082F	2023/SEP/11	2025/OCT/17	63.49
1107538	Copper Queen	145582 (100%)	082F	2023/SEP/21	2025/OCT/17	127.0
1110934	Cu Spur	145582 (100%)	082F	2024/FEB/01	2025/OCT/17	42.35
1116073	Char Basin	145582 (100%)	082F	2024/SEP/16	2025/OCT/17	105.8
1116075	Char South	145582 (100%)	082F	2024/SEP/16	2025/OCT/17	190.5
Total:						846.6

Regional Geology

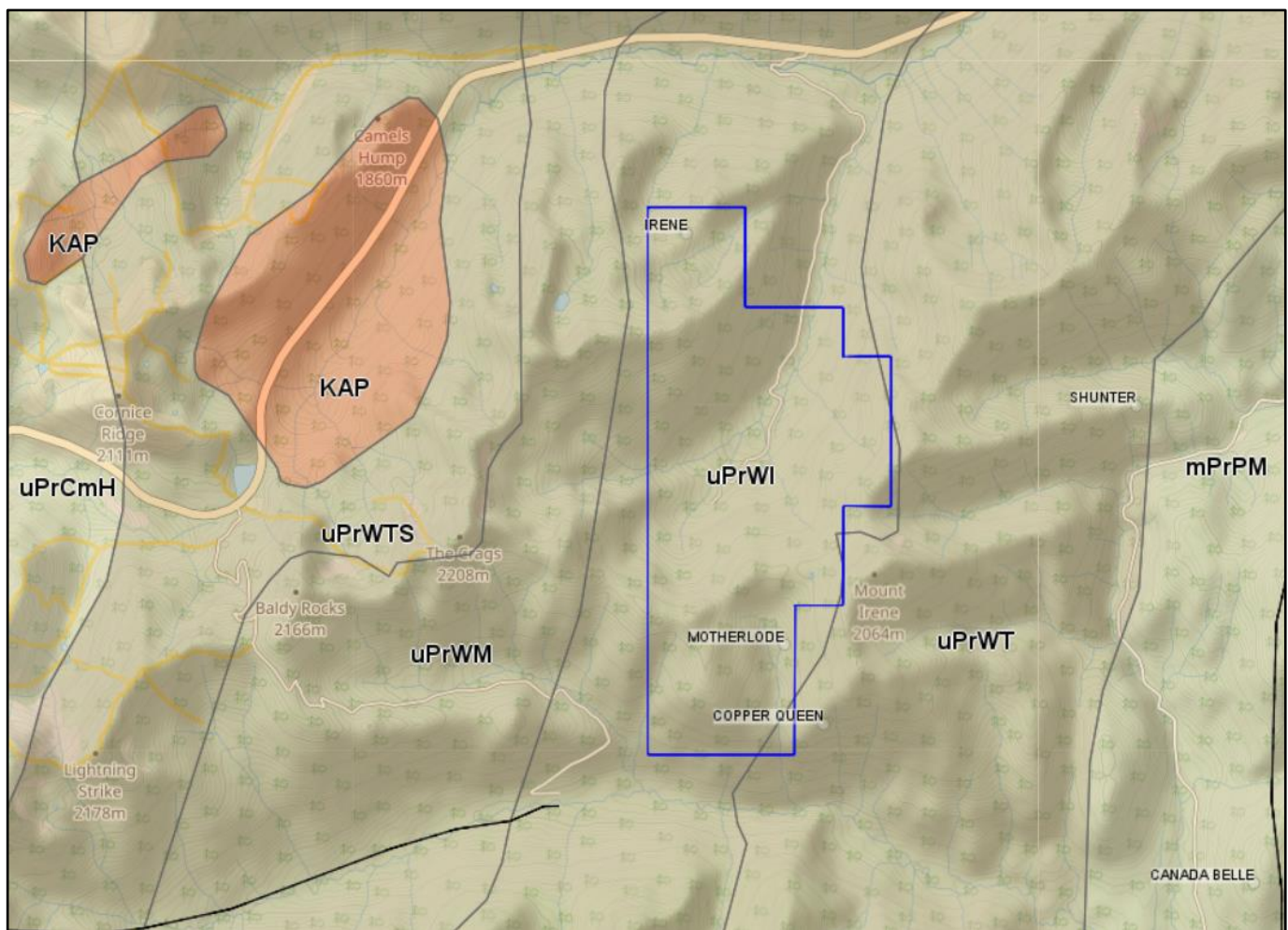
The Irene Trend project lies within the western section of the North American terrane, within a sequence of sediments and volcanics known as the Windermere Supergroup. This terrane occupies the western margins of the ancient North American Craton and is therefore older than most Cordilleran rocks. The Windermere rocks have been dated as late Proterozoic and overlie the somewhat older Purcell Supergroup sequences to the east. The group is bounded to the west by the younger sediments of the Kootenay Arc and throughout the area all these units have been intruded by younger stocks, plutons and batholiths.

The Purcell rocks are all dated as middle Proterozoic, with the largest and oldest unit in the area being the Aldrich formation, which includes argillite, greywacke, conglomerates and turbidites. The Aldrich rocks begin about 12 km to the east of the property, and on their west flank are conformably overlain by progressively younger units of the Purcell group. From east to west these units are the clastic Creston formation, the dolomitic carbonates of the Kitchener formation, the Dutch Creek formation and the Mount Nelson formation. The latter two units consist of coarse and fine clastic sediments and dolomitic sediments. The upper contact of the Mount Nelson unit lies approximately 3 km east of the property. All these units trend in a northerly to north-easterly direction in this region.

The oldest unit of the Windermere group, the Toby formation, consisting of coarse clastic sediments and conglomerate, overlies the Purcell rocks unconformably and extends west to the eastern boundary of the property. Conformably overlying this unit and making up most of the property area is the Irene Volcanic unit, which includes mafic volcanics and metamorphic greenstone and greenschist as well as limestone layers. To the west of the property the Monk formation consists of clastic sediments, turbidites and carbonates. Further west the quartzites of the Three Sisters formation form the top unit of the Windermere group. Overlying the Three Sisters formation are the younger Hamill Group sediments, which are part of the Kootenay Arc. In the project area the Windermere units trend in a generally north-northeast direction, with most units showing a pronounced deflection to the east in the Summit Creek area less than 2 km north of the property.

To the north and west of the property area the Windemere units are extensively intruded by multiple phases of plutonic rocks of Jurassic and Cretaceous age. Of these, the most relevant are the Bayonne Batholith, a large Middle Jurassic age granitic body that hosts the historical Bayonne gold mine, and various units of the Anstey Pluton, a Cretaceous age series of granodioritic intrusions, which includes the Summit Stock lying to the west of the property in the Kootenay Pass area.

Some north to northeast trending regional faulting is mapped in the Aldrich formation and younger Purcell units east of the property. Closer to the claim area an east-west fault has been mapped cutting both Kootenay Arc and Windemere units along Monk Creek, near the southwest corner of the property. To the west of the property the Three Sisters and Monk formations both show apparent displacement to the east around the Summit Stock. The regional geology surrounding the Irene Trend project is shown in Figure 3.



- KAP** – Cretaceous Anstey Pluton - granodioritic intrusive rocks (Summit Stock)
- mPrPM** – Meso Proterozoic Mt. Nelson Formation – quartzites and quartz arenite sedimentary rocks
- uPrCmH** – Neoproterozoic to Lower Cambrian Hamill Group – quartzite, quartz arenite sedimentary rocks
- uPrWI** – Neoproterozoic Irene Formation – greenstone, greenschist metamorphic rocks
- uPrWM** – Neoproterozoic Monk Formation – argillite, greywacke, wacke, conglomerate turbidites
- uPrWT** – Neoproterozoic Toby Formation – conglomerate, coarse clastic sedimentary rocks
- uPrWTS** – Neoproterozoic Three Sisters Formation - quartzites and quartz arenite sedimentary rocks

Figure 3 – Regional Geology, Irene Trend Area

Local Geology

The Irene Trend project lies almost entirely within the Irene volcanic unit of the Windermere supergroup. The contact of the volcanics with the Toby conglomerate unit lies along the eastern and southeastern boundaries of the claim block. Within the Irene volcanics the rocks are typically fine-grained greenstone, with some areas of greater metamorphism forming greenschist. In the northern part of the property narrow beds of limestone have been mapped within the Irene formation, following a north-south trend. A narrow bed of conglomerate was also mapped paralleling the limestone. These beds are projected as continuing to the south along strike through the southwestern portion of the project area, but their presence south of the divide between the Char Creek and Monk Creek drainage has not been confirmed.

The Summit Stock of the Anstey Pluton is mapped within about two kilometres of the western property boundary, and regional aeromagnetic data shows strong magnetic highs surrounding this intrusion, extending to the east well into the project area, suggesting that the intrusive is only partly exposed and may underlie the western units of Windermere sediments and part of the Irene formation. Granodiorite dikes occur in the southwest part of the property and some intrusive float is evident suggesting the presence of additional outcrops that have not been mapped.

This area has seen limited historical exploration and there are only a few known mineralized showings. The most well-known occurrence in the region is at the Bayonne mine, which lies about 8 km north of the property. Mineralization at the Bayonne consists of quartz-filled fissure veins within a granodiorite stock (the Mine Stock, a distinct intrusion within the Bayonne Batholith). The veins carry gold associated with pyrite, galena, sphalerite, chalcopyrite and tetrahedrite.

Recorded mineralization on the property consists of two separate showings. The Irene showing in the lower Char Creek area consists of quartz veining and volcanic breccia zones containing some chalcopyrite, pyrite and iron oxides in varying amounts, with variable gold values. The Motherload showing is located in the southern part of the property in the Monk Creek drainage and appears to be similar to the Irene showing. Historical reports describe a north trending zone of shearing and alteration along an unnamed creek southwest of Mt. Irene. Although poorly exposed, this zone reportedly contained significant widths of quartz carrying sections rich in pyrite and chalcopyrite. Other exposures showed iron oxides in quartz. Regional stream sediment geochemistry shows strong copper values in the vicinity of the Irene Volcanics together with some anomalous gold values and elevated cobalt levels.

Property History

The Irene Trend property has a limited history of exploration, most of which was carried out in the 1990's and 2000's. Historical results from Minfile showings on the property are summarized in Table 2. The earliest reference is to the Motherload property, which was described in a 1937 Annual Report of the BC Ministry of Mines, with a description of at least seven trenches or open cuts excavated along a north-south shear zone carrying quartz and chalcopyrite in a small valley on the southwest slope of Mt. Irene. The report describes the trenches as dating from a decade earlier and being partially caved and filled in. This suggests the earliest work in the area would have occurred in the mid to late 1920's. The report provides analysis of samples collected by the government inspector from the southernmost of these workings. This cut was apparently the most significant excavation, and two samples from different parts of it assayed 0.2 oz/ton Au, 2.5 oz/ton Ag and 0.4% Cu in iron-rich quartz, and 'trace' Au, 4.5 oz/ton Ag and 2.4% Cu in chalcopyrite-bearing quartz.

In the 1956 Annual report there was a similar description for the Copper Queen property in the same general area. The Copper Queen claims were crown granted around this time, providing a record of the location. The Motherload and Copper Queen were both staked and worked by the same owner, L.R. Clubine, over a period of approximately 30 years. The later report describes the Copper Queen as being at a lower elevation than the earlier workings and the descriptions are somewhat different, but it is probable that both reports are at least in part describing the same showings.

The Copper Queen is described as primarily consisting of a prominent east-west trending quartz vein exposed near the creek, along with an additional open cut about 200 meters downstream. The quartz exposure was 15 meters wide and carried chalcopyrite, hematite, sericite and secondary copper minerals, with mineralization strongest in the southernmost 6 meters. Sampling across this width averaged 0.16% Cu with 0.3 g/t Au. A sample from the open cut to the south showed no values.

The Irene or Char occurrence lies at the north end of the property and previous work programs in the area covered much of the current property area lying within the Char Creek drainage. The Irene claims were first staked by Cominco Ltd. In October 1990 after regional stream sediment geochemical sampling showed anomalous gold values in Char Creek. A program carried out in 1991 included prospecting, geological mapping and some soil geochemistry. Some limited gold anomalies were identified along with some stronger copper anomalies along Char Creek. Rock samples returned values up to 0.28% Cu, including a sample from a quartz vein outcrop in the south part of the Char Creek drainage that assayed 0.18% Cu and a sample of float rock collected along an upper branch of the creek in the southeast that assayed 0.26% Cu with 11.7 g/t Ag and 0.14 g/t Au. At the actual Irene occurrence samples returned 0.21% and 0.28% Cu with one sample also grading 0.24 g/t Au

Table 2: Irene Trend Project – Area Minfile Showings

Name	Minfile #	Minerals	Reported Grades	Sample (m)	Year
Motherload	082FSE080	Cu, Au, Ag	6.9 g/t Au, 86 g/t Ag, 0.4% Cu	0.6	1937
			2.4% Cu, 154 g/t Ag	grab	1937
Copper Queen	082FSE053	Cu, Au, Ag	0.34 g/t Au, 0.16% Cu	6.1	1956
Irene/Char	082FSE134	Cu, Au, Ag	0.21% Cu, 0.24 g/t Au	grab	1991
			2.83% Pb, 461 g/t Ag, 8.77 g/t Au	grab	2001

In 2001 the area was re-staked as the Char claims and prospected for gold by Glen Rodgers. The work included rock and stream sediment sampling, and some significant precious metal anomalies were identified, including a rock sample assaying 8.8 g/t Au and 461 g/t Ag, along with high lead and lesser copper and zinc values in a few samples. Fine placer gold was also found in panned concentrates from stream sediments from Char Creek and its tributaries, particularly in the upper part of the drainage. These concentrates also generally showed anomalous copper and cobalt values.

Sediment samples included separate analyses of magnetic fractions in six panned concentrates. Based on the assumption that these samples would be dominated by magnetite, the results can be used as an indicator of the origin environment of the magnetite by comparing these values to those

found in recent published research on magnetite as a porphyry indicator mineral (Pisiak, 2014). Using the Ti content and Ni/Cr ratios from these samples suggests a hydrothermal origin rather than an igneous one.

No follow-up was reported on the 2001 work and the claims lapsed, with no further work reported until much of the area was re-staked in 2011 and acquired by Integra Gold Corp. Prospecting, geological mapping and ground geophysics were conducted in 2011 and 2012. This work was mainly conducted around the Irene showing at the north end of the property, and it identified two parallel north-south trending mineralized shears that remain open to the south. The western shear contained quartz breccia and carried copper mineralization, while the east zone was iron rich with some lead and zinc values in relatively narrow quartz veins. Both zones showed anomalous gold values, generally less than 1 g/t Au. Geophysics showed magnetic north-south features associated with the mineralization which are also open to the south. While there are bands of limestone and conglomerate trending in the same direction in the area explored, the zones identified were both within the volcanics.

In 2017 Crucible Resources located and sampled the main Copper Queen vein, with the best sample returning 0.65% Cu and 61 g/t Ag over 1.5 meters. Geochemical soil sampling carried out in 2017 and 2018 showed significant areas of anomalous copper values, including some elevated values near the divide at the north end of the southern drainage basin, and a more extensive continuous series of samples covering a wide stretch of the hillside to the southwest of the main showing. This latter section also included some anomalous gold and cobalt values. Anomalous copper values were also found in float material collected from Char Creek.

Soil sampling in 2022 and 2023 in the southeast part of the Char Creek basin returned strongly anomalous copper and cobalt values over a distance of approximately 800 meters. This line of samples was located upslope and about 350 meters southeast of the anomalous copper area identified by Cominco in 1991.

Summary of Work

A site visit was conducted in September 2024, primarily to expand on the 2022/23 geochemical sampling that gave a strong copper and cobalt response in the southeastern portion of the Char Creek basin, on the northwest slope of Mt Irene. An area was sampled to the southwest of the previously identified anomalous zone, with prospecting also conducted where outcrops and other exposed rock were available. Prospecting included sampling of stream and talus float as well as a shear exposure along an abandoned access road. Soil samples were collected along both active and inactive forestry roads as well as on the forested hillside between the roads. Rock samples included both float material and a chip sample from a shear zone in Irene volcanic rocks. A total of three float rock samples were collected, along with the single sample from outcrop. Fifteen soil samples were collected within an area of 200 by 400 meters lying immediately southwest of the previous sampling.

Work Program

Sampling and Data Collection

Sampling was conducted during a site visit to the Irene Trend project in September of 2024. The work was conducted in the Char Creek area, accessed directly from highway 3 via the Char Creek FSR, focusing on an inactive branch road along the northwest flank of Mt. Irene and the hillside

above this road. The work was primarily aimed at soil sampling along a section of this branch road, along an overgrown road above it and near a small branch of the creek between these two roadways. The sampling was an extension of soil sampling along the branch road to the northeast conducted in 2022 and 2023. Sampling of float rock and outcrop was also conducted along roads and creek traversed in carrying out the soil sampling. Silicified float samples with varying pyritic mineralization were collected from two locations along the East Branch of Char Creek and a similar sample was collected along the access road. One further rock sample was collected from an exposed shear zone along the upper overgrown road to the west of the areas of soil sampling. A total of 15 soil samples were collected along with the three float samples and one outcrop grab sample.

Sample descriptions and locations, along with principal assay results for the rock samples collected are summarized in Table 3. Soil sampling conditions and locations are provided in Table 4. Locations and key results are shown for all samples collected on the map in Appendix 1. Complete assay reports are included in Appendix 2. Rock samples were dried, crushed, split and pulverized before being analyzed. The soil samples were dried and screened at 80 mesh, with the minus 80 mesh fractions being submitted for assay. For all samples, 0.5 grams of pulverized or screened material was digested with aqua regia. Both rock and soil samples were analyzed using a standard 37 element scan by ICP-MS. All analyses were carried out by Bureau Veritas Mineral Laboratories (formerly Acme Analytical Laboratories Ltd.) located in Vancouver, B.C.

The locations visited and samples collected are described below.

Rock Samples

While the main focus of this work was the expansion of soil sample coverage, concurrent prospecting was also conducted. Along the Char Creek FSR, north of the soil sampling area, a mineralized float boulder carrying highly silicified schist and pyritic quartz was sampled from the road bed (CR240919-1). The sample carried minimal values, although the minor silver content was more than typically seen in samples in the Char Creek area. To the south of this location, but still north of the soil sampling, coarse float boulders of altered schist were found in the creek bed of the east branch of Char Creek. A sampling of this material (CR240919-2) showed strong silicification and quartz with iron oxide staining. Assay values for this sample were not significant.

The area covered by soil samples skirted the west side of the creek and at a higher elevation a sampling of similar float material was collected from the creek bed. This sample (CR240919-3) was richer in quartz, but also included silicified schist and oxidized iron minerals. Values were also low, but with markedly higher base metal values than the first two samples.

Table 3: Rock Sample Descriptions with Analytical Results

Sample #	Date	Description	UTM East	UTM North	Width (m)	Au g/t	Ag g/t	Cu ppm	Pb ppm	Zn ppm	Co ppm
Char Creek Area - Rock											
CR240919-1	2024-09-19	Pyritic, silicified schist float boulder	502049	5434793	-	0.002	0.3	48.2	31.0	80	20.3
CR240919-2	2024-09-19	Silicified shear in stream bed - pyrite, quartz	502003	5434412	-	0.001	<0.1	47.5	8.2	74	17.8
CR240919-3	2024-09-19	Stream float - silic. shear with pyrite, Fe oxide	502171	5433966	-	0.002	<0.1	122.2	10.1	126	35.7
CR240919-4	2024-09-19	Limonitic shear with quartz, pyrite, mafic dike	501567	5433911	-	0.003	<0.1	188.1	3.2	118	45.3

After completion of the soil sampling, a final rock sample was collected along the overgrown logging road above the current Char Creek FSR, west of the soil sampling. This sample (CR240919-4) was collected from a mineralized shear exposed in a roadside outcrop and from nearby float boulders showing sulphide mineralization. The material included a friable narrow shear and hard silicified volcanics, and included minor quartz veinlets with stringers of pyrite and possible chalcopyrite. Values were also low, but with slightly elevated copper and cobalt levels.

Soil Samples

The principal activity in this work program was the collection of soil samples to increase coverage near the strong copper anomaly identified in 2022 and expanded to the southwest in 2023. Sampling was started along the same forestry spur road where high copper values in previous sampling remained open to the southwest. Five samples extended the coverage along this road a further 250 meters. Near the start of the 2023 sampling, sampling was continued up slope above the ravine formed by a branch of Char Creek. This line was run about 250 meters in a south-southeast direction, with a 100 meter elevation gain, and include one sample from the opposite (east) side of the ravine. From the higher elevation an overgrown logging road was encountered and followed back down to the Char Creek FSR. Three additional soil sample were collected along this upper road with 60 meter spacing. Where applicable, the sample locations were off of roadways in shallow sloped forest cover. Sample locations often had rocky soil, but with generally showed adequate B horizon development, with several locations having well developed B horizon layers. Samples were collected at depths ranging from six to twelve inches, depending on the individual site conditions.

Table 4: Geochemical Soil Sample Descriptions and Locations

Sample #	Date	Description	Soil Horizon	Depth (cm)	UTM East	UTM North
Char Creek Area - Soil Samples						
CR240919-G1	2024-09-19	Fine, well developed, brown	B	20	501801	5434137
CR240919-G2	2024-09-19	Fine well developed, rusty-brown	B	15	501851	5434132
CR240919-G3	2024-09-19	Dark brown	A/B	30	501903	5434119
CR240919-G4	2024-09-19	Rocky, grey-green	B	15	501956	5434132
CR240919-G5	2024-09-19	Fine, light grey-brown	B	15	502011	5434133
CR240919-G6	2024-09-19	Well developed, light reddish-grey	B	18	502043	5434126
CR240919-G7	2024-09-19	Well developed, light rusty-brown	B	15	502095	5434105
CR240919-G8	2024-09-19	Well developed, light reddish-brown	B	15	502114	5434052
CR240919-G9	2024-09-19	Well developed, light brown	B	20	502145	5433995
CR240919-G10	2024-09-19	Light reddish-brown	B	25	502190	5433972
CR240919-G11	2024-09-19	Well developed, with roots, grey-brown	B	20	502143	5433929
CR240919-G12	2024-09-19	Deep, reddish-brown	B	20	502128	5433893
CR240919-G13	2024-09-19	Rocky but well developed, grey	B	15	502072	5433984
CR240919-G14	2024-09-19	Rocky but well developed, grey	B	15	502009	5433962
CR240919-G15	2024-09-19	Rocky, grey-brown	B	15	501949	5433949

Samples collected in 2024 continued to show generally strong copper and cobalt values, including an expansion of the strong copper anomaly established in previous sampling. Copper ranged from 35 ppm to 305 ppm, with only one sample less than 55 ppm, while cobalt values ranged from 12.2 to 39.1 ppm. For copper values, samples along a creek ravine showed the lowest values while the strongest values were higher elevation samples to the southwest. Some strongly anomalous values

were also seen along the main Char Creek FSR spur road, diminishing somewhat at the western end of sampling. These results suggest a lower-copper band near the creek, either due to a structural bedrock feature or transport of cover material from less mineralized areas, but overall, the strongly anomalous area continues to the south and west, notably showing strongest values at a higher elevation. Along the lower elevation road, the zone may be diminishing to the west, but it remains open to the southwest and upslope. The known anomalous zone now covers a distance of more than 1000 meters along the slope between 1650 and 1700 meters elevation. This zone also likely connected with the anomalous copper values seen in soil sampling along Char Creek conducted by Cominco in 1991. Most of the high copper values from that work were immediately below the anomalous zone that has now been established on the hillside. Another significant anomalous zone was previously identified south of the ridge in the Monk Creek drainage, to the southwest of Mt' Irene, with similarly elevated copper and cobalt.

Gold values showed only slightly elevated levels in sporadic samples. Four of the samples carried values greater than 5 ppb, with one sample above 10 ppb. No other metals showed significant anomalies.

Interpretation of Results

The results showed this work to be successful in continuing to expand the area of anomalous copper in soil within the Irene volcanic unit in the Mt. Irene area. Rock samples focused mainly on silicified or otherwise altered material, but did not identify any clear source material to explain the anomalous soil values. One sample showed stronger sulphide mineralization but carried very minor copper values and it was associated with a narrow shear and not necessarily part of a larger mineralized system. To date no significant bedrock or float mineralization has been identified in areas that would explain the strong copper-in-soil anomalies present.

The soil sampling in the Char Creek basin has further expanded an increasingly significant area of high copper values. The current work shows continuity west and south of the east branch of Char Creek, with a band of lower values in the immediate vicinity of the creek. High values have been found to run almost continuously for more than a kilometre along the trend of the Irene volcanic unit. The zone ends along a drainage to the northeast, but remains open in other directions, and has shown continuity at higher elevation. Despite the limited bedrock mineralization that has been identified to date on the property, the geochemical results continue to justify further work, both to expand and delineate soil anomalies and to continue prospecting for potential surface exposures of source mineralization. By extending anomalous copper values further south, the current work adds to the possibility of continuity between the elevated copper and cobalt anomaly in the Char Creek drainage and that found from previous work in the Monk Creek area to the south.

Additional soil sampling and potentially geophysical work along with continued prospecting would be justified as follow up work for better defining this significant copper target.

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Author's Qualifications

I, Douglas Warkentin, P.Eng., a professional engineer with a business address at 7069 McBride Street, Burnaby, B.C., certify that:

I have been a Registered Member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia since 1992.

I am a graduate of the University of British Columbia, Vancouver, B.C. and hold a degree of Bachelor of Applied Science in Mining and Mineral Process Engineering.

I have practiced my profession as a Metallurgist and Mineral Process Engineer for 36 years.

I am currently employed as a Metallurgical Engineer by Kemetco Research Inc., Vancouver B.C., and have previously been employed as a Mineral Process Engineer by Vista Mines Inc., Coastech Research Inc., NTBC Research Corp., Biomet Mining Ltd., Blue Sky Mines Ltd., and Vizon Scitec Inc. I have also previously served as a Director of Duncastle Gold Corp., a TSX-Venture listed company.

Since 2001 I have acted as an independent engineering consultant for a number of mining clients.

I am a qualified person for the purposes of National Instrument 43-101 in relation to metallurgical testing and evaluation programs.

I directly conducted or supervised all sampling, sample handling and preparation related to the Irene Trend Project that is described in this report.

I am the sole author of this report.

I am not aware of any material fact or material change with respect to the subject matter of this technical report that is not reflected in this report, the omission to disclose which would make this report misleading.

Dated at Vancouver, B.C., this 15th day of February 2025.

Doug Warkentin, PEng.
Metallurgical Engineer

Statement of Costs

Site Reconnaissance and Sampling

Labour

Doug Warkentin, P.Eng.: September 18-20, 2024 (16 hours @ \$62.50/hr) \$1000.00

Transportation (2 days - mileage and fuel, plus shipping) \$215.84

Accommodation (1 night) \$135.45

Food and Supplies (2 days) \$90.89

Sample Analysis

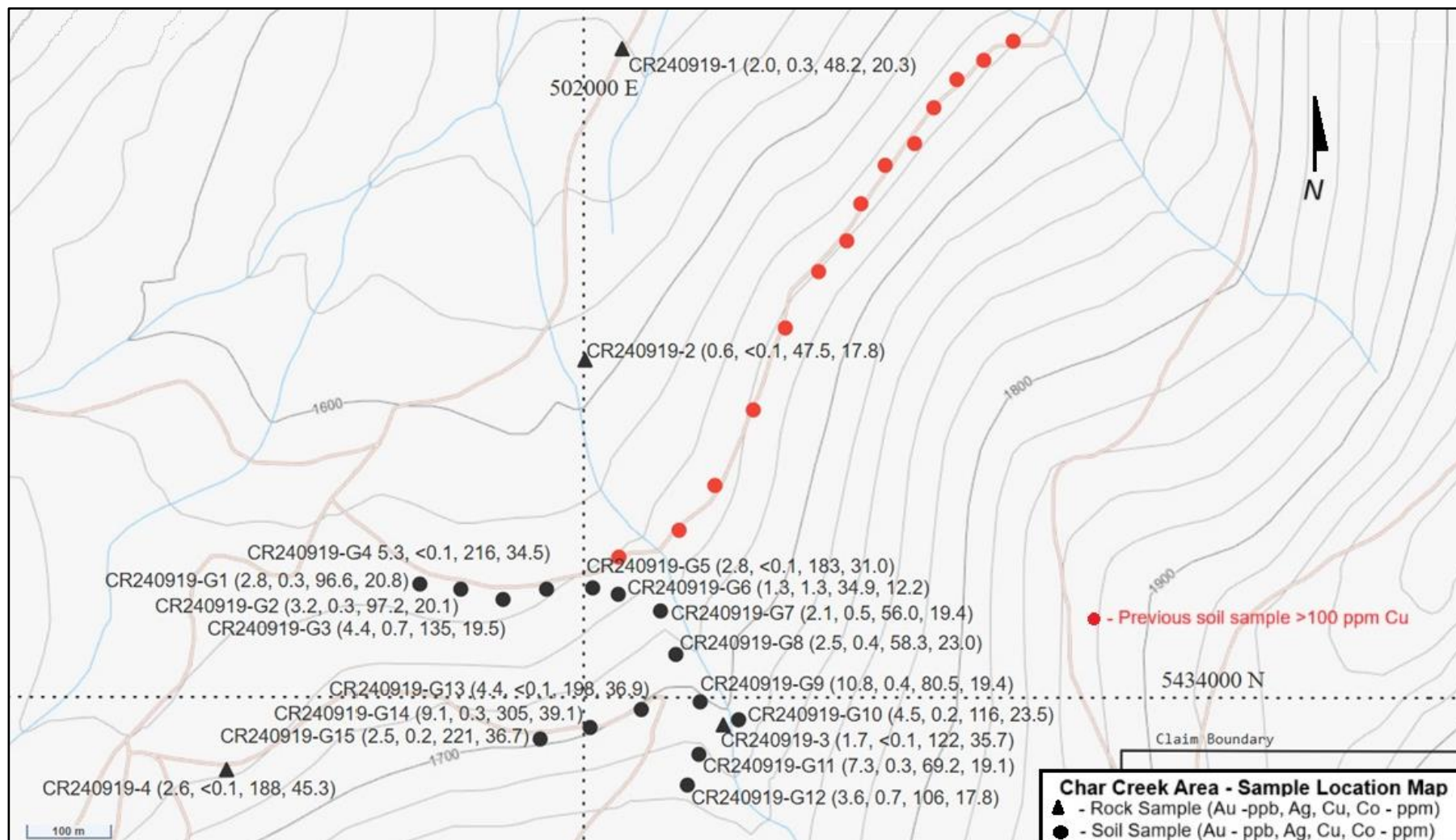
Sample Preparation	(4 samples @ \$23.03/sample)	\$92.12
	(15 samples @ \$13.59/sample)	\$203.78

Sample Assaying	(19 samples @ \$28.02/sample)	\$532.40
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Data Compilation and Report Preparation	\$875.00
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Total Cost	\$3,145.48
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Appendix 1 – Sample Location Map



Map Scale 1:7500

Appendix 2 – Assay Reports



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

Client: **Crucible Resources Ltd.**
745 East 30th Ave
Vancouver British Columbia V5V 2V8 Canada

Submitted By: Doug Warkentin
Receiving Lab: Canada-Vancouver
Received: December 17, 2024
Analysis Start: December 20, 2024
Report Date: January 02, 2025
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN24002794.1

CLIENT JOB INFORMATION

Project: Fr-LP-IT
Shipment ID:
P.O. Number
Number of Samples: 21

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	21	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ200	21	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

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: Crucible Resources Ltd.
745 East 30th Ave
Vancouver British Columbia V5V 2V8
Canada

CC:


JEFFREY CANNON
Geochemistry Department Supervisor

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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Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN24002794.1

	Method	Analyte	Unit	MDL	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01
CR240918-1	Rock			0.83	1.2	35.6	8.4	71	0.3	22.9	4.9	350	1.84	8.2	1.1	1.7	5.2	38	0.7	0.2	0.4	36	0.77	
CR240918-2	Rock			2.37	2.1	37.4	>10000	>10000	>100	4.2	6.8	712	3.27	14.8	0.5	385.0	3.3	20	605.3	46.0	92.8	42	0.47	
CR240918-3	Rock			1.68	0.8	9.2	66.9	245	0.3	6.4	14.1	457	3.25	4.1	1.0	5.6	2.3	108	2.4	0.2	0.1	102	1.07	
CR240918-4	Rock			0.91	0.8	8.7	117.0	253	0.5	2.1	3.6	429	2.28	2.6	2.6	15.7	7.6	30	2.5	0.2	0.7	37	0.42	
CR240918-5	Rock			1.61	1.5	9.7	69.4	126	0.7	1.4	1.3	289	1.57	4.4	2.0	141.4	7.4	31	1.3	0.2	1.4	15	0.90	
CR240919-1	Rock			0.66	0.6	48.2	31.0	80	0.3	45.8	20.3	324	4.23	1.1	3.0	2.0	7.0	9	0.4	<0.1	0.4	55	0.13	
CR240919-2	Rock			0.74	4.9	47.5	8.2	74	<0.1	44.4	17.8	267	3.52	<0.5	1.0	0.6	5.7	61	<0.1	<0.1	0.2	35	0.62	
CR240919-3	Rock			0.74	0.6	122.2	10.1	126	<0.1	61.9	35.7	1037	7.31	3.3	0.2	1.7	2.5	27	0.3	<0.1	<0.1	118	1.26	
CR240919-4	Rock			1.15	0.6	188.1	3.2	118	<0.1	78.0	45.3	1447	8.87	4.9	0.1	2.6	1.0	18	0.2	0.1	<0.1	177	1.45	
CR240921-1	Rock			2.09	4.3	239.2	13.1	55	0.1	6.8	24.9	926	5.73	2.1	1.2	11.8	4.9	24	0.2	0.1	<0.1	117	0.63	
CR240921-2	Rock			1.78	21.6	339.7	3.7	22	0.2	6.1	22.2	294	6.80	1.2	1.5	2.9	2.6	24	<0.1	0.2	0.1	114	0.36	
CR240921-3	Rock			1.75	67.2	339.0	6.5	19	0.3	5.4	17.8	352	4.80	4.5	2.5	4.8	5.1	19	<0.1	0.1	<0.1	109	0.33	
CR240921-4	Rock			1.49	191.6	474.9	3.6	16	0.4	4.4	7.9	254	6.68	4.6	1.1	4.0	3.1	34	<0.1	0.2	0.1	99	0.31	
CR240921-5	Rock			1.45	53.6	285.5	8.3	27	0.4	5.6	30.7	436	5.76	12.3	18.7	14.7	8.6	15	<0.1	0.3	0.1	97	0.35	
CR240922-1	Rock			0.87	2.1	11.5	20.7	63	<0.1	9.7	9.3	901	3.33	<0.5	2.6	<0.5	22.2	53	0.2	<0.1	0.1	47	0.58	
CR240922-2	Rock			1.50	2.8	9.7	22.4	87	<0.1	7.6	8.3	982	3.04	1.2	2.3	<0.5	25.8	75	0.2	<0.1	0.2	34	0.54	
CR240922-3	Rock			1.72	19.3	84.1	6.3	48	0.4	3.8	11.4	642	5.41	24.3	0.1	3.6	1.0	25	<0.1	0.3	0.1	71	0.26	
CR240922-4	Rock			1.31	16.2	85.1	7.3	31	0.2	0.9	6.5	341	4.39	15.6	<0.1	15.8	0.9	35	<0.1	0.2	0.1	72	0.25	
CR240922-5	Rock			1.38	14.5	55.2	5.5	45	0.3	1.5	13.0	483	5.54	10.8	0.1	23.1	0.5	28	<0.1	0.2	1.1	84	0.31	
CR240922-6	Rock			0.95	22.4	234.3	12.4	49	0.7	1.3	21.2	521	10.19	34.1	0.2	9.0	0.5	23	0.1	0.5	0.2	102	0.19	
CR240922-7	Rock			1.90	9.6	97.2	4.2	39	0.4	5.5	12.6	518	4.63	110.4	0.1	21.0	1.0	8	<0.1	0.8	0.3	110	0.13	



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Project: Fr-LP-IT
Report Date: January 02, 2025

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN24002794.1

	Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
			P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
			%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
			MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
CR240918-1	Rock	0.103	15	14	0.56	103	0.137	<20	1.48	0.109	0.34	0.5	<0.01	3.3	0.2	0.10	5	2.8	<0.2	
CR240918-2	Rock	0.109	7	6	0.62	18	0.115	<20	0.95	0.024	0.11	1.7	0.17	2.1	0.2	3.03	4	37.0	6.8	
CR240918-3	Rock	0.158	9	160	1.66	188	0.191	<20	2.59	0.174	0.56	0.5	<0.01	5.9	0.5	<0.05	9	<0.5	<0.2	
CR240918-4	Rock	0.075	15	29	0.56	74	0.117	<20	1.13	0.076	0.41	1.6	<0.01	2.8	0.2	<0.05	5	<0.5	<0.2	
CR240918-5	Rock	0.042	16	9	0.20	47	0.050	<20	0.76	0.060	0.25	8.9	<0.01	1.2	0.1	0.09	4	0.5	<0.2	
CR240919-1	Rock	0.032	13	77	0.90	71	0.090	<20	2.08	0.071	0.56	<0.1	<0.01	12.4	0.2	1.84	7	<0.5	<0.2	
CR240919-2	Rock	0.014	16	53	1.58	117	0.125	<20	3.06	0.243	1.35	<0.1	<0.01	4.3	0.5	1.22	8	0.6	<0.2	
CR240919-3	Rock	0.084	14	69	1.54	46	0.033	<20	1.86	0.049	0.08	<0.1	<0.01	17.5	<0.1	<0.05	8	<0.5	<0.2	
CR240919-4	Rock	0.102	8	116	2.22	51	0.059	<20	3.13	0.016	0.11	<0.1	<0.01	19.9	<0.1	0.08	12	<0.5	<0.2	
CR240921-1	Rock	0.066	7	9	1.58	123	0.159	<20	1.97	0.034	0.18	0.5	<0.01	5.1	<0.1	0.10	8	<0.5	<0.2	
CR240921-2	Rock	0.084	8	19	0.86	106	0.216	<20	1.37	0.033	0.18	0.5	<0.01	5.3	0.1	0.27	8	2.0	<0.2	
CR240921-3	Rock	0.063	7	10	1.03	25	0.191	<20	1.46	0.047	0.10	0.8	<0.01	8.4	<0.1	1.40	7	1.4	<0.2	
CR240921-4	Rock	0.070	5	10	0.81	38	0.202	<20	1.27	0.044	0.12	0.8	<0.01	7.7	<0.1	1.79	7	3.4	0.3	
CR240921-5	Rock	0.141	12	10	0.74	43	0.177	<20	1.58	0.037	0.15	1.4	0.01	5.8	0.1	1.02	8	2.8	<0.2	
CR240922-1	Rock	0.178	137	27	0.75	121	0.009	<20	1.04	0.053	0.15	<0.1	<0.01	2.5	<0.1	<0.05	8	<0.5	<0.2	
CR240922-2	Rock	0.154	129	19	0.64	770	0.006	<20	1.09	0.053	0.15	<0.1	<0.01	2.5	<0.1	<0.05	8	<0.5	<0.2	
CR240922-3	Rock	0.137	10	1	0.96	106	0.004	<20	2.03	0.038	0.28	<0.1	<0.01	3.8	0.2	0.08	8	<0.5	<0.2	
CR240922-4	Rock	0.132	4	3	0.63	230	0.020	<20	1.21	0.046	0.22	<0.1	<0.01	3.9	<0.1	0.20	6	<0.5	<0.2	
CR240922-5	Rock	0.084	1	1	1.12	36	0.134	<20	1.83	0.065	0.12	0.5	<0.01	5.5	<0.1	0.88	6	0.9	0.5	
CR240922-6	Rock	0.078	3	1	1.27	84	0.048	<20	2.52	0.032	0.17	0.3	<0.01	4.5	<0.1	0.43	10	0.8	0.3	
CR240922-7	Rock	0.081	4	24	1.51	57	0.008	<20	1.90	0.039	0.12	<0.1	<0.01	9.0	0.2	0.21	10	<0.5	<0.2	



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Client:

Crucible Resources Ltd.

745 East 30th Ave

Vancouver British Columbia V5V 2V8 Canada

Submitted By: Doug Warkentin
Receiving Lab: Canada-Vancouver
Received: December 17, 2024
Analysis Start: December 20, 2024
Report Date: January 06, 2025
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN24002795.1

CLIENT JOB INFORMATION

Project: Fr-LP-IT
Shipment ID:
P.O. Number
Number of Samples: 19

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	19	Sorting, labeling and boxing samples received as pulps			VAN
AQ200	19	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps

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: Crucible Resources Ltd.
745 East 30th Ave
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CC:


KERRY JAY
Geochem Project Specialist

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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Project:

Fr-LP-IT

Report Date:

January 06, 2025

Page:

2 of 2

Part:

1 of 2

CERTIFICATE OF ANALYSIS

VAN24002795.1

	Method	Analyte	Unit	MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
CR240921-G1	Soil Pulp	0.6	13.8	13.2	119	0.2	9.4	5.4	474	2.01	4.1	0.8	0.8	3.3	17	0.5	0.1	0.3	43	0.14	0.066			
CR240921-G2	Soil Pulp	0.4	12.2	22.1	250	0.3	8.3	4.4	1304	1.44	9.3	0.5	3.0	2.0	61	2.5	0.1	0.3	22	0.34	0.295			
CR240921-G3	Soil Pulp	0.7	12.2	12.4	124	0.2	10.0	5.1	520	2.00	3.5	0.6	0.5	3.0	20	0.6	0.1	0.3	39	0.15	0.074			
CR240921-G4	Soil Pulp	1.2	32.9	20.1	271	0.7	10.5	7.4	631	2.36	10.1	0.6	1.5	2.8	19	1.7	0.4	0.5	42	0.15	0.089			
CR240919-G1	Soil Pulp	0.4	96.6	13.3	76	0.3	26.6	20.8	909	4.08	6.0	1.0	2.8	0.4	23	0.3	0.2	0.2	103	0.78	0.102			
CR240919-G2	Soil Pulp	0.8	97.2	11.7	68	0.3	25.0	20.1	1053	4.14	4.5	1.0	3.2	0.3	21	0.3	0.2	0.2	95	0.68	0.110			
CR240919-G3	Soil Pulp	0.6	134.7	29.2	65	0.7	26.3	19.5	895	3.45	9.1	1.0	4.4	0.2	31	0.6	0.5	0.2	92	1.33	0.088			
CR240919-G4	Soil Pulp	0.4	216.2	14.1	102	<0.1	50.2	34.5	1130	6.85	6.5	0.4	5.3	2.7	22	0.2	0.1	0.2	163	0.67	0.113			
CR240919-G5	Soil Pulp	0.3	183.2	27.3	74	<0.1	38.1	31.0	762	5.55	7.2	0.4	2.8	1.4	13	0.1	0.1	0.2	138	0.40	0.078			
CR240919-G6	Soil Pulp	0.8	34.9	23.5	59	1.3	15.3	12.2	853	3.59	5.2	0.5	1.3	0.9	8	0.3	0.3	0.3	85	0.17	0.065			
CR240919-G7	Soil Pulp	0.6	56.0	12.6	80	0.5	22.6	19.4	589	4.48	5.9	0.5	2.1	1.3	8	0.2	0.2	0.2	93	0.16	0.180			
CR240919-G8	Soil Pulp	0.8	58.3	13.7	76	0.4	21.8	23.0	683	4.14	5.8	0.7	2.5	1.4	7	0.2	0.2	0.2	89	0.15	0.099			
CR240919-G9	Soil Pulp	0.6	80.5	20.9	70	0.4	25.3	19.4	730	4.52	5.9	0.4	10.8	1.0	13	0.2	0.2	0.2	106	0.37	0.079			
CR240919-G10	Soil Pulp	0.5	116.3	22.1	72	0.2	31.6	23.5	1195	4.91	7.4	0.5	4.5	1.0	12	0.3	0.3	0.2	115	0.30	0.082			
CR240919-G11	Soil Pulp	0.7	69.2	27.6	73	0.3	24.8	19.1	721	4.14	4.9	0.5	7.3	0.8	14	0.3	0.3	0.3	101	0.44	0.072			
CR240919-G12	Soil Pulp	0.6	105.7	15.3	62	0.7	18.0	17.8	1329	2.94	6.0	1.9	3.6	0.2	26	0.4	0.3	0.2	73	0.82	0.115			
CR240919-G13	Soil Pulp	0.4	198.4	15.5	82	<0.1	43.5	36.9	979	6.06	8.0	0.2	4.4	1.0	14	<0.1	0.1	0.1	142	0.46	0.105			
CR240919-G14	Soil Pulp	0.3	305.2	20.9	99	0.3	57.6	39.1	1293	6.93	9.7	0.3	9.1	1.3	18	0.3	0.2	0.1	172	0.58	0.114			
CR240919-G15	Soil Pulp	0.3	220.5	17.6	92	0.2	50.6	36.7	1180	6.60	11.3	0.4	2.5	1.2	20	0.3	0.2	0.3	167	0.69	0.118			



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CERTIFICATE OF ANALYSIS

VAN24002795.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
CR240921-G1 Soil Pulp	18	11	0.17	170	0.075	<20	1.71	0.010	0.06	0.1	0.03	1.8	0.1	<0.05	6	<0.5	<0.2
CR240921-G2 Soil Pulp	10	7	0.12	334	0.103	<20	2.08	0.024	0.07	<0.1	0.04	1.5	0.1	<0.05	7	<0.5	<0.2
CR240921-G3 Soil Pulp	12	11	0.18	137	0.071	<20	1.88	0.010	0.05	0.1	0.04	1.4	0.1	<0.05	6	<0.5	<0.2
CR240921-G4 Soil Pulp	11	13	0.32	155	0.049	<20	2.21	0.009	0.09	0.1	0.04	2.1	0.2	<0.05	7	<0.5	<0.2
CR240919-G1 Soil Pulp	8	53	0.95	83	0.146	<20	3.37	0.008	0.14	<0.1	0.07	3.9	0.1	<0.05	10	0.8	<0.2
CR240919-G2 Soil Pulp	10	41	0.92	83	0.126	<20	2.85	0.009	0.11	<0.1	0.07	3.2	0.1	0.06	11	1.0	<0.2
CR240919-G3 Soil Pulp	8	64	0.88	138	0.118	<20	2.20	0.005	0.16	0.1	0.12	3.0	0.1	0.09	8	1.2	<0.2
CR240919-G4 Soil Pulp	9	78	2.32	187	0.285	<20	3.45	0.007	0.39	0.1	0.01	8.8	0.2	<0.05	12	<0.5	<0.2
CR240919-G5 Soil Pulp	7	51	1.68	63	0.319	<20	2.93	0.002	0.20	0.1	0.03	6.6	0.1	<0.05	10	<0.5	<0.2
CR240919-G6 Soil Pulp	5	22	0.55	83	0.313	<20	1.98	0.006	0.06	0.1	0.09	2.6	<0.1	<0.05	11	<0.5	<0.2
CR240919-G7 Soil Pulp	5	30	0.81	61	0.227	<20	3.10	0.006	0.06	0.2	0.10	3.7	<0.1	<0.05	11	<0.5	<0.2
CR240919-G8 Soil Pulp	6	29	0.82	62	0.238	<20	3.61	0.007	0.05	0.2	0.09	4.3	<0.1	<0.05	11	<0.5	<0.2
CR240919-G9 Soil Pulp	6	35	1.04	59	0.278	<20	2.56	0.005	0.08	0.1	0.07	4.3	<0.1	<0.05	10	<0.5	<0.2
CR240919-G10 Soil Pulp	6	44	1.16	85	0.337	<20	3.03	0.005	0.10	0.1	0.11	5.1	<0.1	<0.05	10	<0.5	<0.2
CR240919-G11 Soil Pulp	6	36	1.01	80	0.284	<20	2.20	0.006	0.09	0.1	0.08	4.1	<0.1	<0.05	11	<0.5	<0.2
CR240919-G12 Soil Pulp	15	46	0.50	98	0.112	<20	4.36	0.017	0.07	<0.1	0.15	3.2	0.1	0.08	12	1.3	<0.2
CR240919-G13 Soil Pulp	5	51	1.83	54	0.303	<20	2.88	0.002	0.19	0.1	0.01	5.9	<0.1	<0.05	10	<0.5	<0.2
CR240919-G14 Soil Pulp	7	94	2.28	111	0.256	<20	3.51	0.003	0.26	0.1	0.03	9.9	0.1	<0.05	12	<0.5	<0.2
CR240919-G15 Soil Pulp	7	91	2.11	109	0.220	<20	3.21	0.003	0.23	<0.1	0.03	9.0	0.1	<0.05	11	<0.5	<0.2