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HANNA CAPITAL CORP  
CARSCALLEN PROPERTY  
2021 GRASS ROOTS PROSPECTING REPORT  
BRISTOL, CARSCALLEN, GODFREY and TURNBULL TOWNSHIPS,  
ONTARIO

Report prepared by: Pat Pope, P. Geo.  
Timmins, Ontario

Date: August 5, 2021

## **TABLE OF CONTENTS**

<b>1. SUMMARY OF PROGRAM .....</b>	<b>2</b>
<b>2. PROJECT LOCATION AND ACCESS .....</b>	<b>2</b>
<b>3. PROJECT DESCRIPTION .....</b>	<b>2</b>
<b>4. PERSONNEL .....</b>	<b>2</b>
<b>5. 2021 PROSPECTING AND GRAB SAMPLING PROGRAM.....</b>	<b>2</b>
<b>6. SAMPLE PREPARATION, ANALYSES AND SECURITY.....</b>	<b>6</b>
<b>7. QUALITY CONTROL AND ANALYTICAL RESULTS.....</b>	<b>14</b>
<b>8. INTERPRETATION AND DISCUSSION.....</b>	<b>14</b>
<b>9. RECOMMENDATIONS .....</b>	<b>16</b>
<b>10. REFERENCES .....</b>	<b>16</b>
<b>11. STATEMENT OF QUALIFICATIONS .....</b>	<b>18</b>

## **LIST OF FIGURES**

Figure 1. Carscallen Property Location Map.....	3
Figure 2. Claim Map.....	5
Figure 3. Carscallen Property Compilation and Traverse Site Locations .....	7
Figure 4. Carscallen Property Traverse Site Locations .....	8
Figure 5. Carscallen Property Grab Sample Map.....	10

## **LIST OF TABLES**

Table 1. List of Unpatented Mining Claims .....	4
Table 2. Carscallen Property Rock Types .....	9
Table 3. Carscallen Property Traverse Site Locations and Descriptions.....	11
Table 4. Carscallen Property Grab Sample Descriptions and Assay Results .....	12
Table 5. Carscallen Property Grab Sample External Quality Control Results .....	15

## **LIST OF APPENDICES**

Appendix I	Certificate of Analysis
Appendix II	Site and Grab Sample Location Photographs

## **1. SUMMARY OF PROGRAM**

On June 13<sup>th</sup> and June 19<sup>th</sup> of 2021, Hanna Capital Corp (Hanna) carried out prospecting and grab sampling on the north-central portion of the Carscallen Property. This grass roots prospecting report presents the results of the program and was prepared primarily to fulfill assessment work requirements on the property.

## **2. PROJECT LOCATION AND ACCESS**

The Carscallen Property is located in Bristol, Carscallen, Godfrey and Turnbull Townships in northeastern Ontario, approximately 25 kilometers west of the centre of the city of Timmins (Figure 1). Access to the property is via Ontario Provincial Highway 101 west from Timmins and then 11 kilometers northwest and west along the gravel Malette Road. A bush road running south from the northeast corner of the property provides good access to the work area.

## **3. PROJECT DESCRIPTION**

The Carscallen Property consists of 14 unpatented mining claims (Table 1). Hanna Capital Corp is the recorded holder of all 14 claims. The outline of the Carscallen Property is shown on the location map in Figure 1 and the individual claims are shown on the claim map in Figure 2.

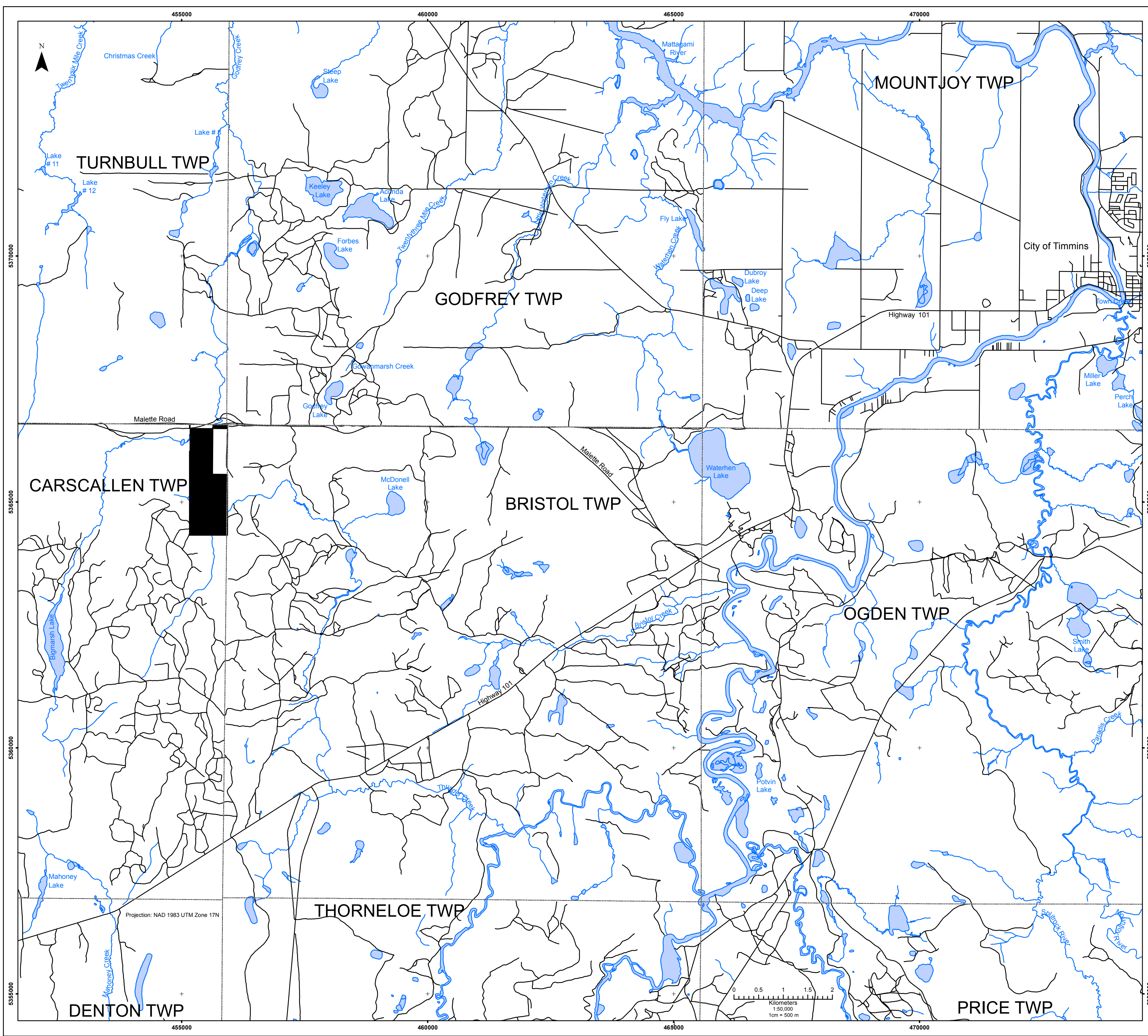
## **4. PERSONNEL**

Prospecting and grab sampling was carried out by Pat Pope, P.Geo. and Yvan Veronneau of Timmins, Ontario. This grass roots prospecting report was prepared by Pat Pope, P.Geo., with postal address at P.O. Box 853, Timmins, Ontario, P4N 7G7.

## **5. 2021 PROSPECTING AND GRAB SAMPLING PROGRAM**

Field work on June 13<sup>th</sup> of 2021 consisted of locating and describing the historical gold showings in the north-central portion of the Carscallen Property. A small amount of prospecting, outcrop stripping and cleaning of the old pits and trenches was also carried out. The prospecting reports of Lalonde (2015a), a property visit with Lake Shore Gold Corp and Lalonde (2015b), a property visit with MacRae Geological Services, were used to locate the historical gold showings. Ontario Geological Survey Map P.3544 (Hathaway and Hocker, 2004) was used to locate and help identify areas of outcrop and rock types. The 1 VD magnetics from the Nitinat Minerals Corporation (Nitinat) drone survey (Johnston, 2018) was used to assist with the geological interpretation.

One day of follow-up prospecting, cleaning of old pits and trenches, and grab sampling, was carried out on June 19<sup>th</sup> of 2021. Grab samples were located in the field using hand-held GPS units with an accuracy of 3-5 meters in both east and west directions. The samples were marked in the field by blue and yellow flagging hung from a tree, with orange flagging wrapped around a rock with the sample number written in marker and placed on the ground at the exact location of the sample.



**Legend**

- Township Boundary
- Hanna Capital Corp Carscallen Property
- Rivers / Creeks
- Lakes / Ponds
- Roads

**Hanna Capital Corp**  
**Carscallen Property**  
**Figure 1**  
**Location Map**

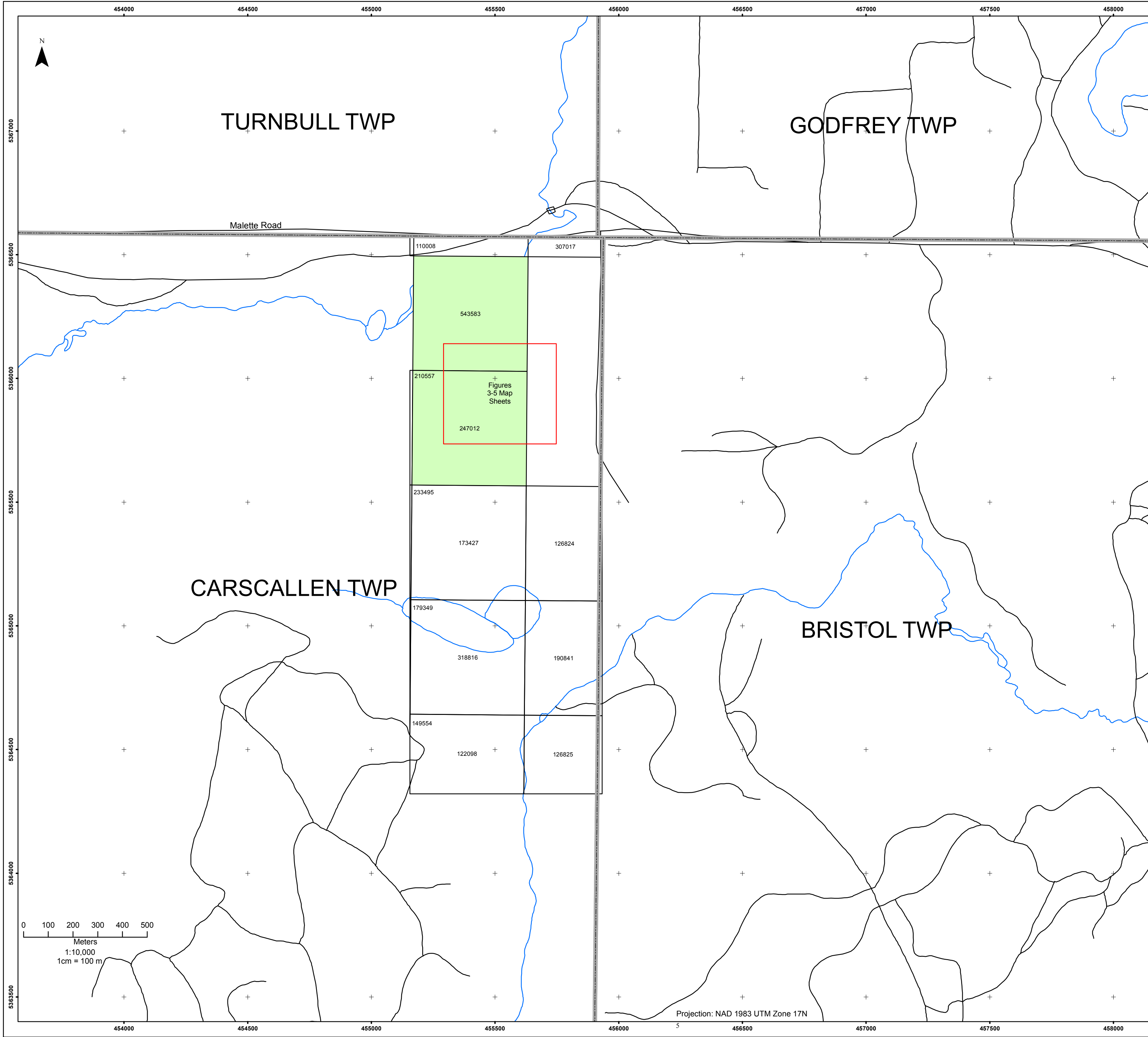
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Date: July 2021  
Mining Division: Porcupine

Table 1.

## Hanna Capital Corp. - Carscallen Property - List of Unpatented Mining Claims

LEGACY CLAIM	TOWNSHIP NAME	CELL CLAIM	CELL TYPE	ANNIVERSARY DATE	CLAIMHOLDER
4261694	CARSCALLEN	247012	Single Cell Mining Claim	2021-08-01	HANNA CAPITAL CORP
4261694	CARSCALLEN	173427	Single Cell Mining Claim	2021-08-01	HANNA CAPITAL CORP
4266738	CARSCALLEN	233495	Boundary Cell Mining Claim	2021-08-01	HANNA CAPITAL CORP
4266738	CARSCALLEN	210557	Boundary Cell Mining Claim	2021-08-01	HANNA CAPITAL CORP
4261694	CARSCALLEN	318816	Single Cell Mining Claim	2021-09-19	HANNA CAPITAL CORP
4261694	CARSCALLEN	122098	Boundary Cell Mining Claim	2021-09-19	HANNA CAPITAL CORP
4266738	CARSCALLEN	179349	Boundary Cell Mining Claim	2021-09-19	HANNA CAPITAL CORP
4277646	CARSCALLEN	149554	Boundary Cell Mining Claim	2021-09-19	HANNA CAPITAL CORP
4261694	BRISTOL,CARSCALLEN	190841	Boundary Cell Mining Claim	2022-01-02	HANNA CAPITAL CORP
4261694	BRISTOL,CARSCALLEN	126825	Boundary Cell Mining Claim	2022-01-02	HANNA CAPITAL CORP
4261694	BRISTOL,CARSCALLEN	126824	Boundary Cell Mining Claim	2022-01-02	HANNA CAPITAL CORP
4270916	BRISTOL,CARSCALLEN,GODFREY,TURNBULL	307017	Boundary Cell Mining Claim	2022-02-19	HANNA CAPITAL CORP
4270916	CARSCALLEN,TURNBULL	110008	Boundary Cell Mining Claim	2022-02-19	HANNA CAPITAL CORP
	CARSCALLEN	543583	Single Cell Mining Claim	2022-02-25	HANNA CAPITAL CORP



**Legend**

- Township Boundary
- Hanna Capital Corp claims covered by Assessment work
- Hanna Capital Corp claims
- Figures 3-5 - Traverse Site Locations and Grab Sample Maps
- Rivers / Creeks
- Lakes / Ponds
- Roads

**Hanna Capital Corp**

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**Carscallen Property**

**Figure 2**

**Claim Map**

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Bristol, Carscallen, Godfrey and Turnbull Townships

Date: July 2021

Mining Division: Porcupine

Projection: NAD 1983 UTM Zone 17N

Traverse site locations for June 13<sup>th</sup> and June 19<sup>th</sup> are shown on Figures 3 and 4 at a scale of 1:1,000. Each traverse site is shown on the map with a unique number and the date. Figure 3 also shows a compilation of the geology taken from Ontario Geological Survey Map P.3544 and the 1 VD magnetics from the Nitinat drone survey. The rock type or lithology legend for Map P.3544 is in Table 2.

The grab sample locations and assay results in g/tonne Au are shown on Figure 5 at a scale of 1:1,000. A total of 10 grab samples of bedrock were taken in the program. The map sheet location for Figures 3-5 is shown on the claim map in Figure 2. Cell claims with work covered in this assessment report are shown on the claim map in Figure 2. The traverse site location and grab sample location eastings and northings are in the UTM NAD 83 Zone 17N coordinate system.

The traverse site locations and descriptions for June 13<sup>th</sup> are in Table 3. Traverse site locations and descriptions, grab sample locations, descriptions and gold assay results for June 19<sup>th</sup> are in Table 4. Photographs of the site and grab sample locations are in Appendix II and locations documented in Tables 3 and 4.

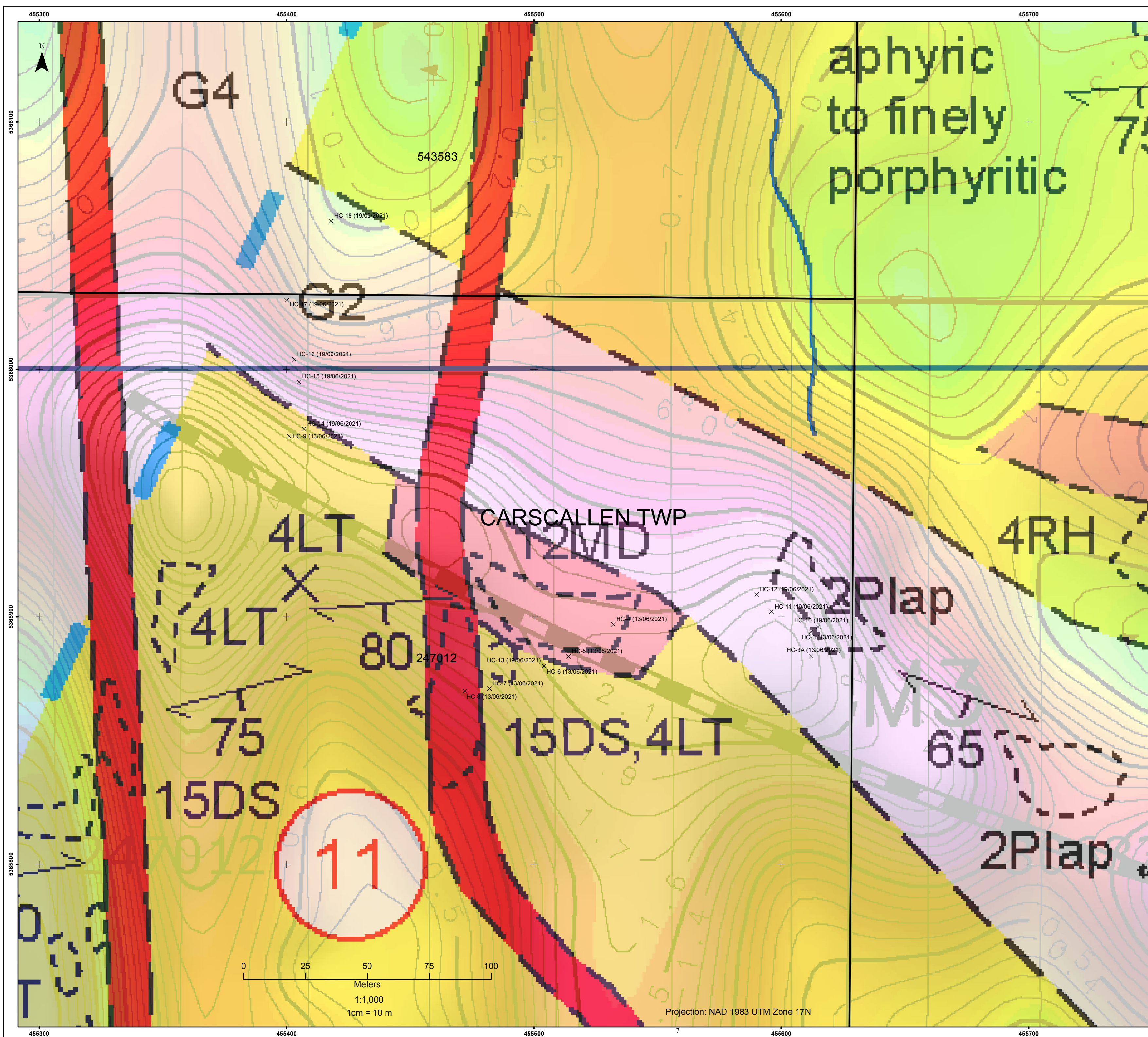
## **6. SAMPLE PREPARATION, ANALYSES AND SECURITY**

After the grab samples were described and collected in the field, the sealed individual samples were placed in a shipping bag, which in turn was sealed with fibre tape. The samples were delivered by Pat Pope to AGAT Laboratories sample preparation facility in Timmins, Ontario. The bags remained sealed until they were opened by laboratory personnel.

The samples were entered into the AGAT system, dried, weighed and crushed to better than 75% passing a 2 mm or 10 mesh screen. A 500 gram split of the crushed material was then pulverized to better than 85% passing a 75 micron or 0.075 mm or 200 mesh screen.

The samples were assayed for gold at AGAT Laboratories in Thunder Bay, Ontario. Fire assaying was performed on a 50 gram sample drawn from the pulp. The gold bead was assayed using either atomic absorption spectrometry or a gravimetric technique for values greater than 5 ppm. Gold values were reported on the certificates in ppm for assays performed by atomic absorption spectrometry (AAS) and in grams per metric tonne (g/t) for assays performed by the gravimetric technique. Values below the detection limit of 0.002 ppm were reported as below detection limit.





aphyric  
to finely  
porphyritic

CARSCALLEN TWP

Lithology	Code
<b>Proterozoic Mafic Intrusive Rocks</b>	15
Diabase Dikes, Sills	15DS
<b>Felsic to Intermediate Intrusive Rocks</b>	
Undifferentiated Early Felsic to Intermediate Intrusive	12
Microdiorite	12MD
<b>Felsic Volcanic Rocks</b>	
Undifferentiated Felsic Volcanic	4
Felsic Lapilli Tuff	4LT
Rhyolite	4RH
<b>Mafic Volcanic Rocks</b>	
Undifferentiated Mafic Volcanic	2
Pillowed Mafic Volcanic, aphyric	2Plap

G preceding code refers to interpreted by geophysics

Note:  
Geology taken from OGS Map P.3544  
Underlay is 1VD Magnetics from Nitinat drone survey

Legend	
	Township Boundary
	Cell Claim Boundary
	Rivers / Creeks
	Lakes / Ponds
	Traverse Site Location labeled with: SiteID (Date Taken)

**Hanna Capital Corp**

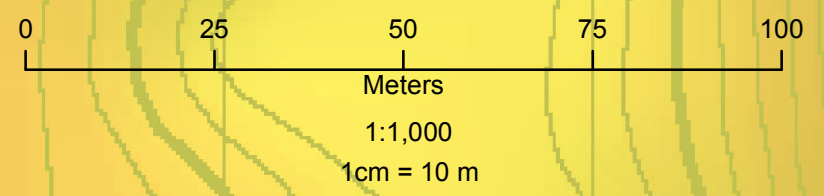
**Carscallen Property**

**Figure 3**

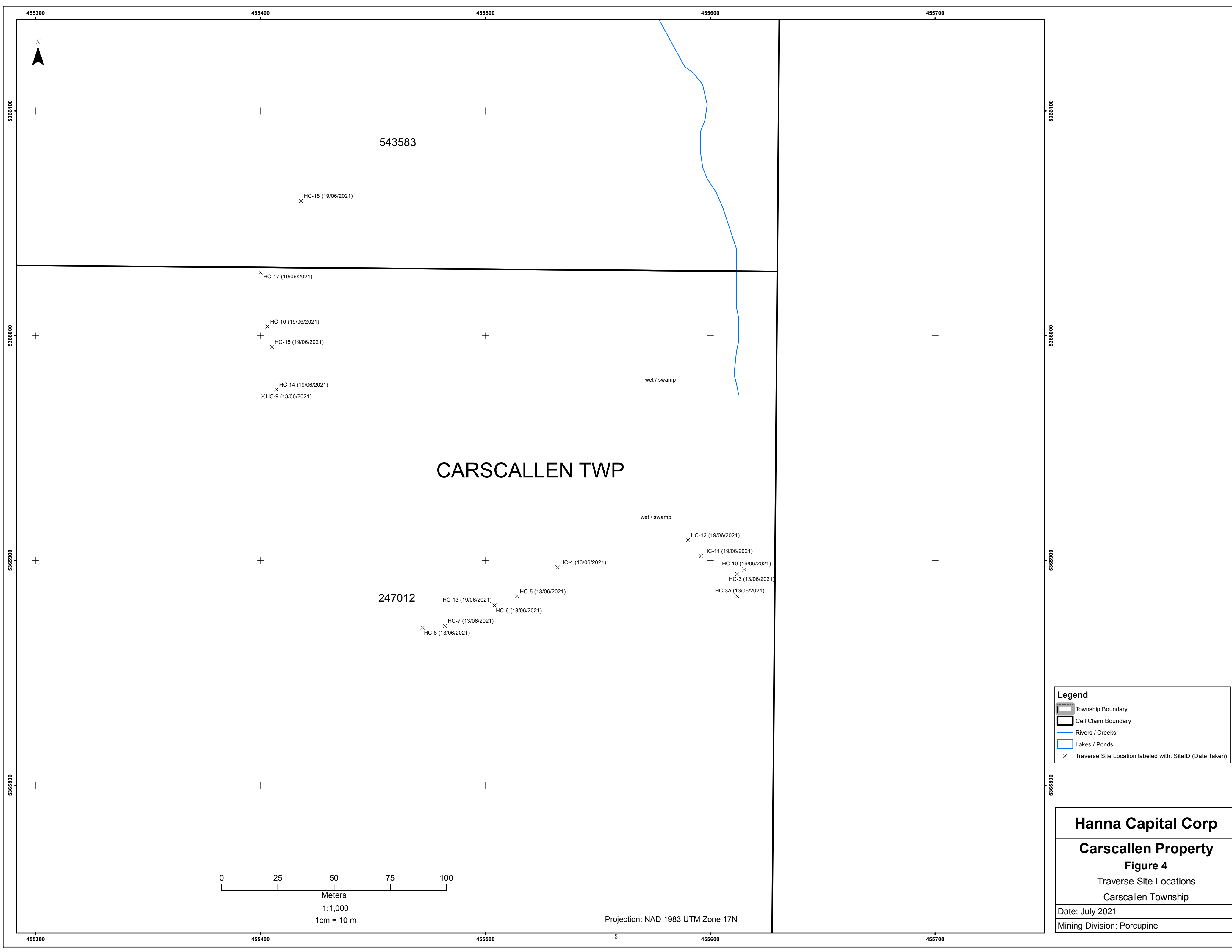
Compilation and Traverse Site Locations  
Carscallen Township

Date: July 2021

Mining Division: Porcupine



Projection: NAD 1983 UTM Zone 17N



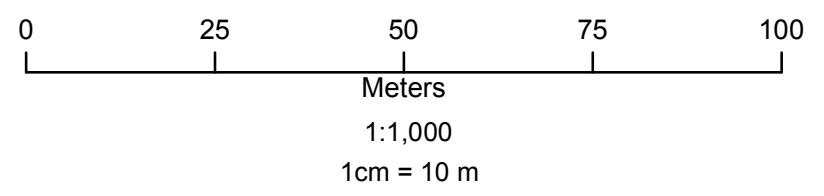
543583

CARSCALLEN TWP

247012

wet / swamp

wet / swamp



Projection: NAD 1983 UTM Zone 17N

**Legend**

- Township Boundary
- Cell Claim Boundary
- Rivers / Creeks
- Lakes / Ponds
- Traverse Site Location labeled with: SiteID (Date Taken)

**Hanna Capital Corp**

**Carscallen Property**

**Figure 4**

Traverse Site Locations  
Carscallen Township

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Date: July 2021

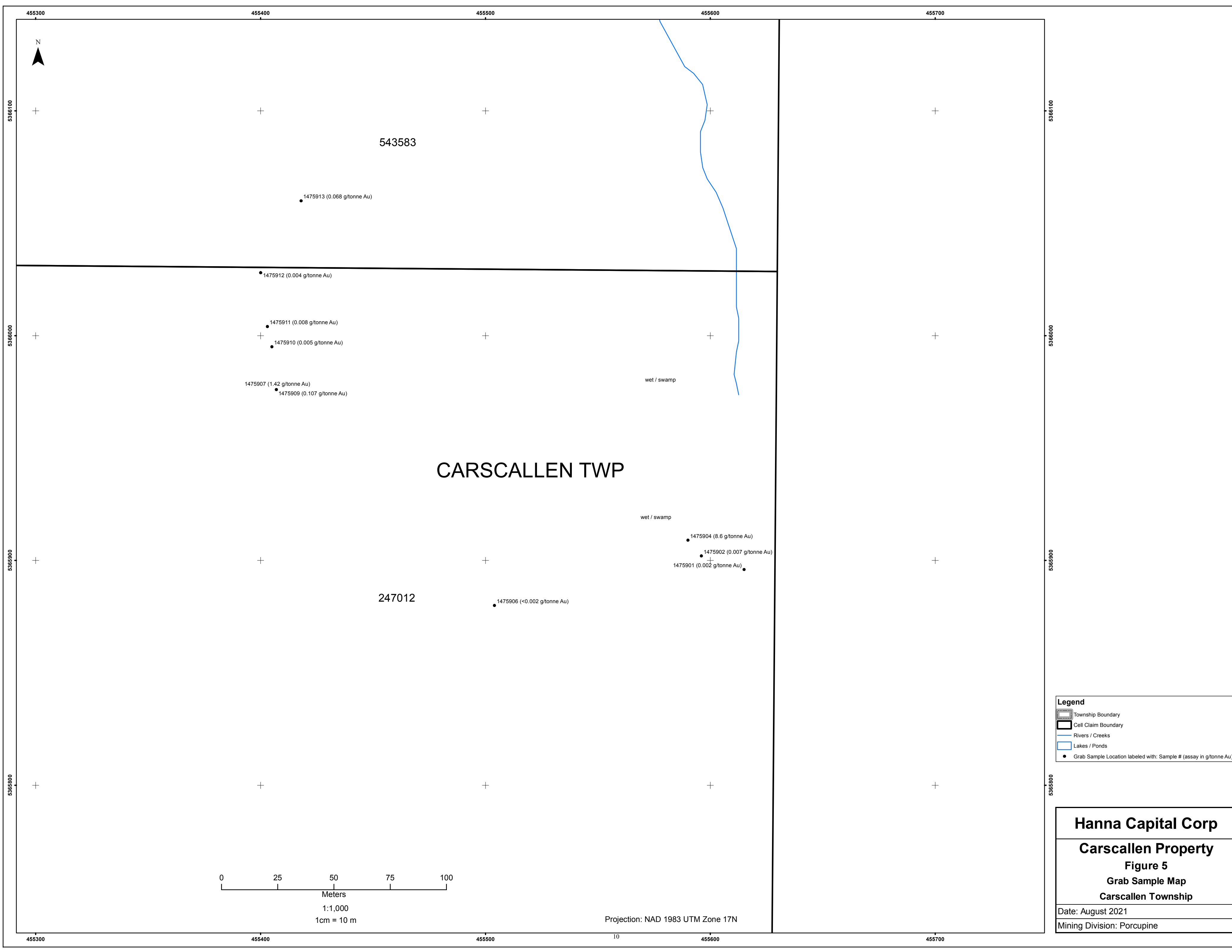
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Mining Division: Porcupine

Table 2.

## Carscallen Property Rock Types

<b>Lithology</b>	<b>Code</b>
<b>Proterozoic Mafic Intrusive Rocks</b>	15
Diabase Dikes, Sills	15DS
<b>Felsic to Intermediate Intrusive Rocks</b>	
Undifferentiated Early Felsic to Intermediate Intrusive	12
Microdiorite	12MD
<b>Felsic Volcanic Rocks</b>	
Undifferentiated Felsic Volcanic	4
Felsic Lapilli Tuff	4LT
Rhyolite	4RH
<b>Mafic Volcanic Rocks</b>	
Undifferentiated Mafic Volcanic	2
Pillowed Mafic Volcanic, aphyric	2Plap
Lithology units taken from OGS Map P.3544 (Hathaway and Hocker, 2004)	



543583

CARSCALLEN TWP

247012

wet / swamp

wet / swamp

1475913 (0.068 g/tonne Au)

1475912 (0.004 g/tonne Au)

1475911 (0.008 g/tonne Au)

1475910 (0.005 g/tonne Au)

1475907 (1.42 g/tonne Au)

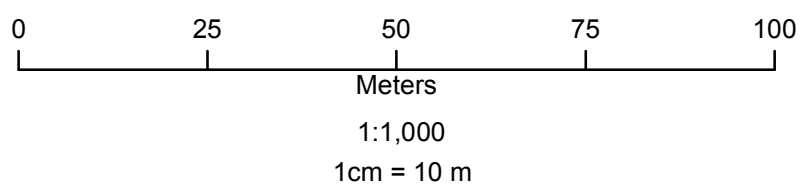
1475909 (0.107 g/tonne Au)

1475904 (8.6 g/tonne Au)

1475902 (0.007 g/tonne Au)

1475901 (0.002 g/tonne Au)

1475906 (<0.002 g/tonne Au)



Projection: NAD 1983 UTM Zone 17N

Legend	
	Township Boundary
	Cell Claim Boundary
	Rivers / Creeks
	Lakes / Ponds
	Grab Sample Location labeled with: Sample # (assay in g/tonne Au)

<p><b>Hanna Capital Corp</b></p> <p><b>Carscallen Property</b></p> <p><b>Figure 5</b></p> <p><b>Grab Sample Map</b></p> <p><b>Carscallen Township</b></p>
<p>Date: August 2021</p> <p>Mining Division: Porcupine</p>

Table 3.

## Hanna Capital Corp - Carscallen Property Traverse Site Locations and Descriptions

SiteID	DATE	Easting	Northing	Cell_Claim	Sampler1	Sampler2	Site_Description	Rock_Description
HC-3	13/06/2021	455612	5365894	247012	PP	YV	large outcrop 10m north of shaft 1 (Lalonde-Lake Shore Gold and MacRae reports)	2-5cm white quartz-carbonate vein oriented at 030/90; cross-cuts pillowed mafic volcanic with amoeboid shapes; weak bleaching and fe-carb in wallrock marginal to vein; projection of vein 10m to southwest is shaft 1; Photos 1 and 2
HC-3A	13/06/2021	455612	5365884	247012	PP	YV	shaft 1; numerous trenches and pits oriented along azimuth 310 to west-northwest for approximately 50m; traverse southwest across what may be a fault scarp leading into a swamp on the way to site HC-4	variable fe-carb alteration and local quartz-carbonate-tourmaline veins and stringers oriented at azimuth 310; host rock is mafic with possibly some felsic; area needs more stripping and prospecting
HC-4	13/06/2021	455532	5365897	247012	PP	YV	big outcrop ridge on southwest side of swamp	mafic composition; very fine-grained; massive; going uphill becomes less fine-grained and magnetic, possibly diabase?, microdiorite on OGS Map P.3544
HC-5	13/06/2021	455514	5365884	247012	PP	YV	small outcrop beside old pit	felsic lapilli tuff to agglomerate; well foliated at 90/70, possibly affected by diabase to west?; moderate fe-carb and sericite alteration; Photo 3
HC-6	13/06/2021	455504	5365880	247012	PP	YV	old blasted pit	quartz vein stockwork in felsic volcanic; fe-carb and sericite; Photo 4
HC-7	13/06/2021	455482	5365871	247012	PP	YV	outcrop ridge, possibly VQ North trending site from Hanna	felsic lapilli tuff to agglomerate; moderately to well foliated; strong sericite; 20-50cm white quartz vein trending at azimuth 340, cross-cuts foliation
HC-8	13/06/2021	455472	5365870	247012	PP	YV	large outcrop	medium-grained diabase; moderately magnetic
HC-9	13/06/2021	455401	5365973	247012	PP	YV	old pit; Pit 10 in Lalonde-Lake Shore Gold and MacRae prospecting reports; LSG-2 and LSG-3 sample tags found at bottom of pit	white quartz-carbonate-black tourmaline vein stockwork n strongly carbonate altered mafic volcanic; local black tourmaline and fe-carb as nice stylolites; dominant orientation of veins is 310/55; veins up to 0.5m wide; local abundant pyrite in wallrock; Photo 5
<b>Sampler</b>	<b>Sampler Abbreviation</b>							
Pat Pope	PP							
Veronneau	YV							

Table 4.

## Hanna Capital Corp - Carscallen Property Grab Sample Descriptions and Assay Results

SampleID	SiteID	DATE	Easting	Northing	Cell_Claim	Sampler1	Sampler2	Site_Description	Sample_Description	Au_ppm_AAS	Au_g/t_Grav	Au_g/t_Final
1475901	HC-10	19/06/2021	455615	5365896	247012	PP	YV	large outcrop 10m north of shaft 1; quartz-carbonate vein described in site HC-3	8cm white quartz-carbonate vein oriented at 030/90 at intersection with 1 cm white quartz-carbonate vein at azimuth 010; white to smokey grey glassy quartz with moderate fe-carb; trace fine-grained pyrite in vein and wallrock; 40% quartz in sample; cross-cuts pillowed mafic volcanic with amoeboid shapes; weak bleaching and fe-carb in wallrock for 20-100cm marginal to vein; Photo 6	0.002		0.002
1475902	HC-11	19/06/2021	455596	5365902	247012	PP	YV	old trench oriented along quartz vein structure at azimuth 320, approximately 30m northwest of Shaft 1	10cm white quartz-carbonate vein trending at 320/80; minor sections of smokey quartz or stylolites; very well foliated and strongly fe-carb and sericite-albite?-black tourmaline-altered mafic volcanic wallrock marginal to vein; minor parallel 1cm quartz-carbonate stringers in wallrock; trace fine-grained pyrite in wallrock; trace fine-grained steely blue sulphide or telluride in vein; trace muscovite in vein; local green silicate along vein margin, not identified; 60% quartz in sample; photo 7	0.007		0.007
1475904	HC-12	19/06/2021	455590	5365909	247012	PP	YV	old pit; not cleaned in years?	10-15cm white quartz-carbonate vein trending at 323/73 on south side of old pit; minor fe-carb in vein; intense fe-carb and sericite alteration in wallrock with local black tourmaline patches and stringers; trace pyrite in vein; local up to 1% fine- to medium-grained silvery pyrite as blebs and stringers in wallrock; wallrock alteration extends minimum 2m north of vein; possible some green mica in wallrock; 50% quartz in sample; photo 8	9.31	8.6	8.6
1475906	HC-13	19/06/2021	455504	5365880	247012	PP	YV	old blasted pit re-visited, same location as site HC-6	white quartz-carbonate vein stockwork in felsic volcanic; minor folded fe-carb-sericite stylolites; trace steely grey sulphide or telluride; strong fe-carb and sericite alteration in felsic wallrock; 70% quartz in sample	<0.002		<0.002
1475907	HC-14	19/06/2021	455407	5365976	247012	PP	YV	old trench 10m long oriented at azimuth 020; LSG-4 sample tag (assayed 0.769 g/mt Au)	10cm white to light grey quartz-carbonate vein trending at 200/40; pinch and swell from 2-20cm along edge of stripped area; local pods of black tourmaline in vein; 1-2% fine- to medium-grained pyrite in vein and wallrock; abundant fe-carb patches or streaks/stylolites in vein; 80% quartz in sample; photo 9	1.42		1.42
1475909	HC-14	19/06/2021	455407	5365976	247012	PP	YV	mafic volcanic wallrock to vein sample 1475907	intense fe-carb alteration in mafic volcanic host; abundant black tourmaline stockwork; 1-2% fine- to medium-grained disseminated pyrite; 5% quartz-carbonate stringers; photo 9	0.107		0.107
1475910	HC-15	19/06/2021	455405	5365995	247012	PP	YV	LSG Pit 10; LSG-5 sample tag (assayed 0.159 g/mt Au)	sample taken from west wall of pit; 3-5cm white to glassy light grey quartz-carbonate vein trending at 200/30; host mafic volcanic has strong fe-carb and sericite; spotty 2-3% fine- to medium-grained pyrite in wallrock and along vein margins; 40% quartz in sample; veins are flat lying to gently dipping in trench and roll; photo 10	0.005		0.005
1475911	HC-16	19/06/2021	455403	5366004	247012	PP	YV	old pit; Shaft 2 in Lake Shore Gold and MacRae reports	50-100cm wide zone of quartz-carbonate-black tourmaline vein to vein breccia and stockwork; 1-2% fine- to medium-grained pyrite; intense fe-carb and quartz alteration and flooding; 30% quartz in sample; vein looks flat to gently dipping; late narrow fault trending at 320/90; photo 11	0.008		0.008
1475912	HC-17	19/06/2021	455400	5366028	247012	PP	YV	old pit	50cm white quartz-carbonate vein stockwork in mafic volcanic; moderate to strong fe-carb; local chlorite in wallrock and vein; 1-2% pyrite in vein and wallrock; 60% quartz in sample; photo 12	0.004		0.004

Table 4.

## Hanna Capital Corp - Carscallen Property Grab Sample Descriptions and Assay Results

SampleID	SiteID	DATE	Easting	Northing	Cell_Claim	Sampler1	Sampler2	Site_Description	Sample_Description	Au_ppm_AAS	Au_g/t_Grav	Au_g/t_Final
1475913	HC-18	19/06/2021	455418	5366060	543583	PP	YV	old pit in outcrop on edge of swamp	1-2cm white quartz-carbonate vein and stockwork trending at 320/90; intense pervasive fe-carb and sericite in mafic or felsic volcanic?; spotty minor fine- to medium-grained pyrite in wallrock; 10% quartz in sample; photo 13	0.068		0.068

## **7. QUALITY CONTROL AND ANALYTICAL RESULTS**

External Quality Assurance / Quality Control (QA/QC) was provided by two standards and one field blank inserted into the sample stream prior to shipment to the laboratory. The two certified external standards used in the program were supplied by Rocklabs of New Zealand: Si42 with a recommended gold value of 1.761 ppm, and OxN62 with a recommended gold value of 7.706 ppm.

The field blank consisted of silica quartz prepared by hand sorting barren quartz rock samples. The silica quartz samples were check analyzed for gold at ALS Chemex Laboratories in Timmins, Ontario in 2008. All the samples returned values less than the detection limit of 0.01 g/t Au.

Internal quality control procedures at AGAT Laboratories consisted of sieving, standards, blanks and duplicate samples, reported on the final certificate. The external quality control results and duplicate results for sample 1475907 are presented in Table 5. The external and internal quality control data was reviewed by Pat Pope, P. Geo. and the assay results are acceptable to use in the report.

Results of the gold assays in ppm or g/tonne Au are shown on the grab sample map in Figure 5 and presented in Table 4. The assay certificate is in Appendix I.

## **8. INTERPRETATION AND DISCUSSION**

Sites HC-3, HC-3A and HC-10 to 12 are in the vicinity of shaft 1 described in the Lalonde - Lake Shore Gold and Lalonde - MacRae prospecting reports. Sampling in the shaft area by Lake Shore Gold in 2015 returned low gold values. A narrow 2-8cm white quartz-carbonate vein is exposed on the outcrop just north of the shaft over a strike length of approximately 10 meters. The vein is oriented at 030/90 at a high angle to the northwesterly weakly developed foliation in the host amoeboid-shaped pillowed mafic volcanic rocks and is interpreted as an extension type vein. Weak bleaching and fe-carb alteration exists for 20-100cm in the host mafic volcanic rocks on the vein margins. Sample 1475901 (Site HC-10), taken from a wide section of the quartz vein at the intersection of a second north trending stringer, returned a low gold value.

A series of old pits and trenches extending along a distance of approximately 30 meters northwest of shaft 1 were cleaned out and two samples taken. Sample 1475904 (Site HC-12), taken from a 10-15cm white quartz-carbonate-tourmaline vein in strongly fe-carb and sericite altered mafic volcanic with up to 1% pyrite in the wall rock, from one of the old pits, returned a value of 8.6 g/tonne Au (gravimetric assay) and 9.31 g/tonne Au from the initial AAS assay. The quartz veins in this area are oriented parallel to the northwesterly trending foliation and are interpreted as shear veins. The mafic volcanic rocks are strongly fe-carb altered and the outcrop exposure diminishes in swamp to the west and northwest. Little recent exploration work appears to have been done in this area. This area is considered highly prospective for gold mineralization.

Sites HC-5 to 7 and HC-13 are outcrops and old blasted pits in variably sericite and fe-carb altered felsic lapilli tuff to agglomerate. No historical assays are reported for this area but some recent stripping and sampling appears to have been done. A 20-50cm white quartz vein trending at azimuth 340 and cross cutting the foliation may be the VQ North Trending site from the Hanna records (site HC-7). Sample 1475906 (Sites HC-6 and HC-13), taken from a white quartz-carbonate vein stockwork in felsic volcanic, returned a gold assay below detection. The occurrence of sericite



Table 5.

## Hanna Capital Corp - Carscallen Property Grab Sample External Quality Control Results

ShipmentWaybill	DateShipped	Lab	Sample	Sample Type	Reference Material	AGAT Work Order - Certificate	Weight (kg)	Au_ppm_AAS	Au-Check 1_ppm	Au-Check 2_ppm	Au-Check 3_ppm(2nd Cut)	Au_g/t_Grav	Au_g/t_Final	QAQC Comments
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475901	Grab		21T765696	0.63	0.002					0.002	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475902	Grab		21T765696	1.30	0.007					0.007	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475903	Blank	Quartz	21T765696	0.22	0.002					0.002	pass; < 3X detection limit
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475904	Grab		21T765696	1.66	9.31				8.6	8.6	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475905	Standard	Si42	21T765696	0.23	1.63					1.63	pass; within 10% of recommended value
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475906	Grab		21T765696	1.45	<0.002					<0.002	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475907	Grab		21T765696	1.22	1.42	0.375	6.97	0.69		1.42	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475908	Standard	OxN62	21T765696	0.37	7.24				7	7	pass; within 10% of recommended value
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475909	Grab		21T765696	0.81	0.107					0.107	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475910	Grab		21T765696	1.49	0.005					0.005	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475911	Grab		21T765696	2.10	0.008					0.008	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475912	Grab		21T765696	1.37	0.004					0.004	
COC_Hanna_21-06-2021	2021-06-21	AGAT Timmins	1475913	Grab		21T765696	1.30	0.068					0.068	

and fe-carb alteration and quartz veining in the felsic volcanic rocks in this area is considered encouraging given its close proximity with the highly prospective shaft 1 area.

Sites HC-9 and HC-14 to 18 are in an area of old pits and shafts in the northwestern part of the work area. Here, numerous zones of quartz-carbonate +/- black tourmaline veins, vein stockworks and breccia occur in fe-carb to chlorite altered (rare sericite) mafic volcanic over a width of approximately 90 meters. Many of the quartz veins strike south-southwest and dip gently west, roll and are locally flat lying. Sample 1475907 (Site HC-14), taken at the site of Lake Shore Gold sample LSG-4 that returned 0.729 g/tonne Au, from a 10cm white to light grey quartz-carbonate-tourmaline vein with 1-2% pyrite in the vein and altered mafic volcanic wallrock, returned a value of 1.42 g/tonne Au. The high variability of the check assays for sample 1475907 indicates the possibility of nuggety gold in the area (Table 5).

The mafic volcanic unit on Geological Survey Map P.3544 (Hathaway and Hocker, 2004) that hosts the gold mineralization on the property is coincident with the northwesterly magnetic trend from the drone survey of Johnson (2018) (Figure 3). The two north trending diabase dikes interpreted on Map P.3544 correlate well with the higher magnetic response from the drone survey. The northwesterly trending mafic volcanic unit is open along strike in both directions. Based upon the small amount of work to date, the width and amount of quartz veining and fe-carb alteration would appear to widen to the northwest. A number of different style of quartz veins with distinct orientations occur on the property, including shear or foliation parallel, extension, stockworks and breccia.

## **9. RECOMMENDATIONS**

Additional prospecting, cleaning of old pits and trenches and hand stripping outcrops along the prospective mafic volcanic trend is recommended. This could be followed up by selective grab and channel sampling and detail geological mapping of the veins and alteration zones. The possibility of nuggety gold on the property should be considered and some selective screen metallic assaying could be carried out. The samples should be assayed for gold and multi-element geochemistry to help determine the correct rock types and metal associations.

## **10. REFERENCES**

- Hathaway, B. and Hocker, S.M. (2004) Precambrian Geology, parts of Godfrey, Turnbull, Carscallen and Bristol Townships; Ontario Geological Survey, Preliminary Map P.3544, scale 1:10,000
- Johnston, M. (2018) Report on a Drone Magnetometer Survey for Nitinat Mineral Corporation, Carscallen Township, Porcupine Mining Division; by Zen Geomap Inc.; in Ministry of Northern Development and Mines technical assessment work report 20000018700
- Lalonde, D. (2015a) Prospecting by License Holder; property visit by Lake Shore Gold Corp. to Carscallen Township Property; in Ministry of Northern Development and Mines technical assessment work report 20000014271
- Lalonde, D. (2015b) Prospecting by License Holder; property visit by MacRae Geological Services

to Carscallen Township Property; in Ministry of Northern Development and Mines  
technical assessment work report 20000014270

## **11. STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS – PAT POPE

I, **Pat Pope**, P.Geo., with postal address at P.O. Box 853, Timmins, Ontario, P4N 7G7, do hereby certify that:

1. I am a consulting/contract geologist.
2. I graduated with a Bachelor of Science (Geology), from Queen's University in 1982 and a Master of Science – Applied (Mineral Exploration), from McGill University in 1985.
3. I am a Professional Geoscientist Registered with the Association of Professional Geoscientists of Ontario.
4. I am a Professional Geologist Registered with the Association of Professional Engineers and Geoscientists of Alberta.
5. I have worked as a geologist for a total of 33 years since my graduation from university.
6. I completed 2 days of prospecting and grab sampling on the Carscallen Property on behalf of Hanna Capital Corp. in June of 2021.
7. I am responsible for the preparation of this grass roots prospecting report.

**Dated this August 5<sup>th</sup>, 2021.**

*Pat Pope*

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PAT POPE - P.Geo.



## **Appendix I: Certificate of Analysis**



CLIENT NAME: MISC AGAT CLIENT ON  
1800 - 130 KING ST W  
TORONTO , ON M5X 1E3  
416-945-6630

ATTENTION TO: .

PROJECT: Hanna

AGAT WORK ORDER: 21T765696

SOLID ANALYSIS REVIEWED BY: Jeffrey Xiong, Lab Team Lead

DATE REPORTED: Jul 30, 2021

PAGES (INCLUDING COVER): 9

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 21T765696

PROJECT: Hanna

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: .

### (200-) Sample Login Weight

DATE SAMPLED: Jun 23, 2021      DATE RECEIVED: Jun 22, 2021      DATE REPORTED: Jul 30, 2021      SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
1475901 (2649509)		0.63
1475902 (2649510)		1.30
1475903 (2649511)		0.22
1475904 (2649512)		1.66
1475905 (2649513)		0.23
1475906 (2649514)		1.45
1475907 (2649515)		1.22
1475908 (2649516)		0.37
1475909 (2649517)		0.81
1475910 (2649518)		1.49
1475911 (2649519)		2.10
1475912 (2649520)		1.37
1475913 (2649521)		1.30

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 150 Jaguar Drive, Timmins, ON and 35 General Aviation Road, Timmins, ON (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 21T765696

PROJECT: Hanna

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: .

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Jun 23, 2021	DATE RECEIVED: Jun 22, 2021	DATE REPORTED: Jul 30, 2021	SAMPLE TYPE: Rock		
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Au ppm 0.002	Au-Check 1 ppm 0.002	Au-Check 2 ppm 0.002	Au-Check 3-(2nd Cut) ppm 0.002
1475901 (2649509)		0.002			
1475902 (2649510)		0.007			
1475903 (2649511)		0.002			
1475904 (2649512)		9.31			
1475905 (2649513)		1.63			
1475906 (2649514)		<0.002			
1475907 (2649515)		1.42	0.375	6.97	0.690
1475908 (2649516)		7.24			
1475909 (2649517)		0.107			
1475910 (2649518)		0.005			
1475911 (2649519)		0.008			
1475912 (2649520)		0.004			
1475913 (2649521)		0.068			

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 21T765696

PROJECT: Hanna

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: .

### (202-564) Fire Assay - Au Ore Grade, Gravimetric finish (50g charge)

DATE SAMPLED: Jun 23, 2021	DATE RECEIVED: Jun 22, 2021	DATE REPORTED: Jul 30, 2021	SAMPLE TYPE: Rock
Analyte: Au-Grav	Unit: g/t	RDL: 0.5	
Sample ID (AGAT ID)			
1475904 (2649512)		8.6	
1475908 (2649516)		7.0	

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 21T765696

PROJECT: Hanna

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: .

### Sieving - % Passing (Crushing)

DATE SAMPLED: Jun 23, 2021

DATE RECEIVED: Jun 22, 2021

DATE REPORTED: Jul 30, 2021

SAMPLE TYPE: Rock

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
1475901 (2649509)	86

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 150 Jaguar Drive, Timmins, ON and 35 General Aviation Road, Timmins, ON (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 21T765696

PROJECT: Hanna

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: .

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Jun 23, 2021

DATE RECEIVED: Jun 22, 2021

DATE REPORTED: Jul 30, 2021

SAMPLE TYPE: Rock

	Analyte:	Pass %
	Unit:	%
Sample ID (AGAT ID)	RDL:	0.01
1475901 (2649509)		89.18

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 150 Jaguar Drive, Timmins, ON and 35 General Aviation Road, Timmins, ON (unless marked by \*)

Certified By:



CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: .

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	2649509	0.002	<0.002	0%	2649515	0.375	3.004	155.6%	2649515	6.97	2.23	103.0%	2649515	0.690	3.02	125.6%

(202-564) Fire Assay - Au Ore Grade, Gravimetric finish (50g charge)

Parameter	REPLICATE #1															
	Sample ID	Original	Replicate	RPD												
Au-Grav	2649512	8.6	8.2	5.1%												



CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: .

**(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)**

Parameter	CRM #1 (ref.GS1P5T)				CRM #2 (ref.GS13B(50g))											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	1.75	1.74	99%	90% - 110%												

**(202-564) Fire Assay - Au Ore Grade, Gravimetric finish (50g charge)**

Parameter	CRM #1 (ref.GS13B(50g))				CRM #2 (ref.GS13B(50g))											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au-Grav	13.18	13.3	101%	90% - 110%	13.18	13.3	101%	90% - 110%								



## Method Summary

CLIENT NAME: MISC AGAT CLIENT ON

AGAT WORK ORDER: 21T765696

PROJECT: Hanna

ATTENTION TO: .

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-12019, MIN-12004	Fletcher, WK: Handbook of Exploration Geochem	AA
Au-Check 1	MIN-12019, MIN-12004	Fletcher, WK: Handbook of Exploration Geochem	AA
Au-Check 2	MIN-12019, MIN-12004	Fletcher, WK: Handbook of Exploration Geochem	AA
Au-Check 3-(2nd Cut)	MIN-12019, MIN-12004	Fletcher, WK: Handbook of Exploration Geochem	AA
Au-Grav	MIN-12004		BALANCE
Pass %	MIN-12010	Johnson, W.: Laboratory Sampling and Sample Prep	BALANCE
Pass %	MIN-200-12012	Johnson, W.: Laboratory Sampling and Sample Prep	BALANCE

## **Appendix II: Site and Grab Sample Location Photographs**





Photo 1: North of shaft 1; 2-5cm white quartz-carbonate vein trending at 030/90; looking northeast



Photo 2: North of shaft 1; 2-5cm white quartz-carbonate vein trending at 030/90; looking southwest



Photo 3: Felsic lapilli tuff/agglomerate; fe-carb and sericite alteration; looking north



Photo 4: Quartz vein stockwork in felsic volcanic in old blasted pit; looking northwest; Sample 1475906



Photo 5: Pit 10; white quartz-carbonate-tourmaline vein stockwork in fe-carb altered mafic; looking east



Photo 6: North of shaft 1; 8cm white quartz-carbonate vein trending at 030/90 at intersection with 1cm stringer; looking northeast; Sample 1475901



Photo 7: Old trench approximately 25m northwest of shaft 1; 10cm white quartz-carbonate vein trending at 320/80 in well foliated fe-carb-altered mafic volcanic; looking northwest; Sample 1475902



Photo 8: Old pit approximately 35m northwest of shaft 1; 10-15cm white quartz-carbonate vein trending at 323/73 in intensely fe-carb-sericite-tourmaline-altered mafic volcanic; looking southeast; Sample 1475904





Photo 9: Old trench at LSG-4 sample site; 2-20cm white to light grey pinch and swell quartz-carbonate vein trending at 200/40 in intensely fe-carb-tourmaline-pyrite-altered mafic volcanic; looking north; Samples 1475907 and 1475909



Photo 10: Pit 9 at LSG-5 sample site; 2-5cm white quartz-carbonate vein trending at 200/30 in strongly fe-carb-sericite-pyrite-altered mafic volcanic; looking northeast; Sample 1475910 taken from west wall; veins “roll” in pit and can be flat lying to gently dipping



Photo 11: Old pit approximately 10m north of photo 10, possibly shaft 2 in LSG report; 50-100cm gently west dipping quartz-carbonate-tourmaline vein and breccia/stockwork in intensely fe-carb-silica-pyrite-altered mafic volcanic; looking south; Sample 1475911; cut by late fault trending at 320/90



Photo 12: Old pit; 50cm white quartz-carbonate-chlorite vein stockwork in moderate fe-carb-chlorite-altered mafic volcanic; looking southeast; Sample 1475912



Photo 13: Old pit on outcrop at edge of swamp; 1-2cm white quartz-carbonate veins and stockwork trending at 320/90 in intensely fe-carb-sericite-altered mafic or felsic volcanic; looking north; Sample 1475913