

**Yukon Mineral Exploration Program (YMEP)
22-051**

Final Report

Twentymile Placer

Dawson Mining District

NTS: 115N/08 & 115N/09

Latitude: 63⁰ 33.44" N Longitude: -140⁰ 8.46" W

Claim List:
TWM 1-204

Work Performed:

Auger Drilling: September 18- October 08, 2022

Prepared for GroundTruth Exploration Inc.

Written by: Simon Cash

January 31, 2023



Figure 1: Looking North down the Twenty mile Creek.

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1 Introduction

Twenty Mile Creek is a left limit tributary of the lower Sixty Mile River. Economic placer mining production on the adjacent drainages of Ten Mile and Matson creek validate the placer potential of Twentymile Creek. Additionally, there are several hard rock gold occurrences and regionally significant gold-in-soil anomalies around Twentymile Creek including the Dime, Ten and Jual which demonstrate evidence of source gold mineralization within the Twentymile drainage system.

GroundTruth Exploration Inc. was hired to conduct a placer exploration program in 2022 that comprised of an Auger drilling program on the claims totaling 85 drill holes/ 2272.5 feet drilled on September 18 to October 7 to test for economic gold.

2 Previous Investigations

Previous investigations on the Twentymile for placer exploration included RAB Drilling in the fall of 2021 and Spring of 2022 and DC Resistivity, GPR and UAV surveys on the first year of the leases in 2020. Prior to that, total field ground magnetic, GPR and UAV surveys were conducted between 2009-2017. A historic cat trail from adjacent Ten Mile creek was established and test pits were completed with an excavator at the main creek junction, with results of the testing unknown at this time.

Figure 2: Historical work on the Twenty Mile Creek



3 Location and Access

The Twenty Mile Creek prospecting leases are located approximately 58 km South Southwest of Dawson City within the Sixty Mile watershed in west-central Yukon Territory. The targets are centered at $63^{\circ} 33.44' N$ and $-140^{\circ} 8.46'' W$ and located on NTS map sheets 115N/08 and 115N/09. The Claims are accessible by helicopter year-round, can be accessed by snowmobile, via the Sixty Mile River in the Winter. The Lammers Field Airstrip is located 10 km to the east of the property, it is generally open from May to November, it is connected to the Sixty-mile Barge landing by road and the Twenty mile creek system by an ATV road as seen below.

Figure 3: Twenty Mile Access Road



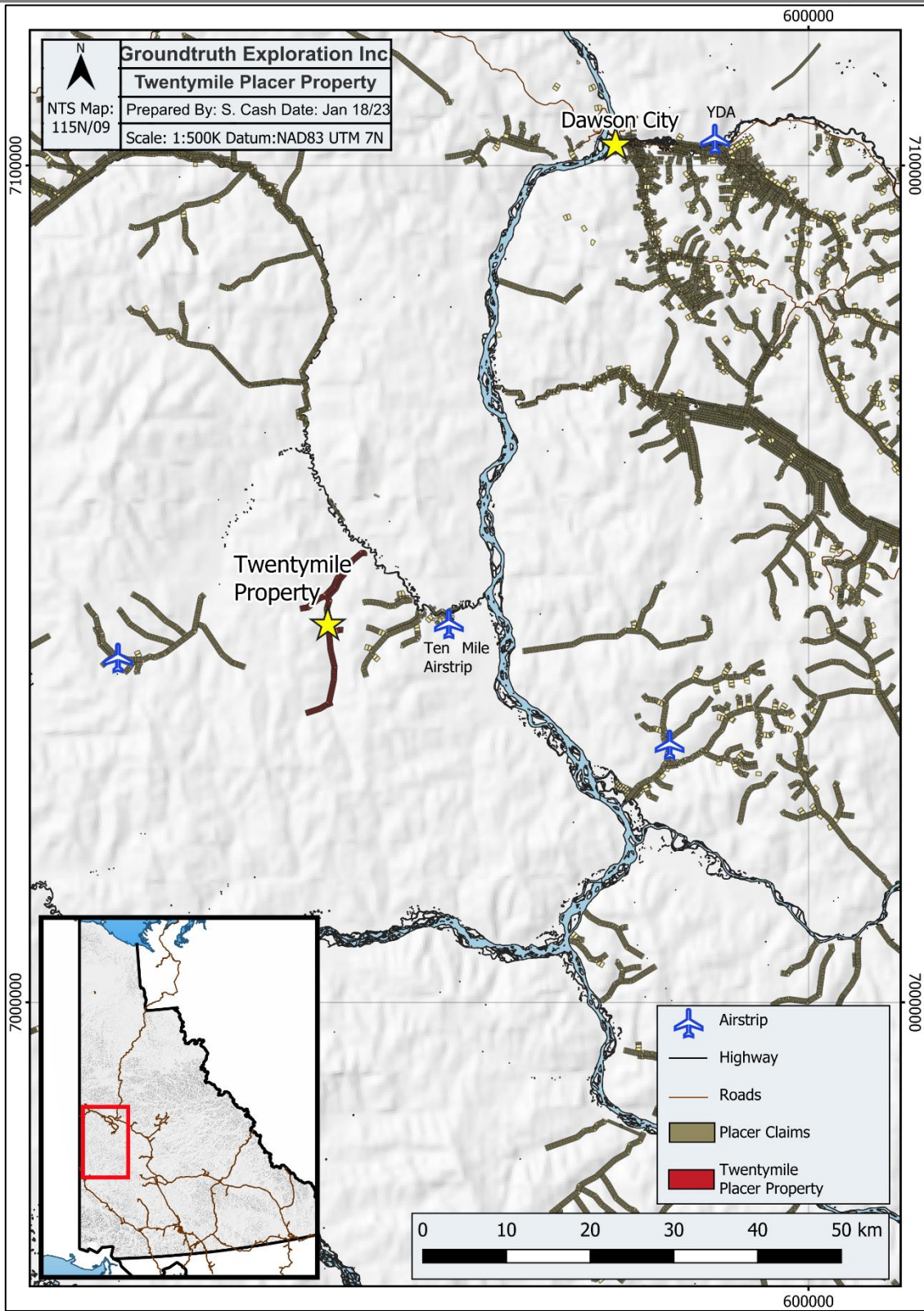


Figure 4: Twenty Mile Creek Location Map

4 Physiography and Climate

The landscape is composed of broad valleys bordered by moderately sloped, tree-covered hills ranging in elevations from 396 m to 701 m. The area experiences typical climatic conditions of the central Yukon Territory. The territory has a sub-arctic continental climate with a summer mean of 10°C and a winter mean of -23°C with temperatures reaching as high as 35°C in the summer and as low as minus 55°C in the winter. The property lies within Canada's discontinuous permafrost zone, most of the valley bottoms in this area are filled with permafrost.

5 Geology

5.1 Regional Geology

Twenty Mile Creek is situated in the Yukon-Tanana Terrane (YTT). The YTT is a late Devonian to middle Mississippian continental magmatic arc extending from northern British Columbia into west-central Yukon and eastern Alaska and is bounded to the northeast by the Tintina fault and to the south-west by the Denali fault (Colpron et al., 2006).

The YTT is composed of four main assemblages including the Snowcap, Finlayson, Klondike and Klinkit (Colpron et al. 2006) intruded by the Dawson Range batholith (phase of the Whitehorse Suite), Prospector Mountain plutonic suite and Casino plutonic suites (Mortensen et al., 2010).

The Snowcap assemblage (PDS1) forms the base of the YTT consisting of quartzite, psammite, pelite and marble with minor greenstone and amphibolite. The Finlayson assemblage (DMF1) is composed of amphibolite, garnet amphibolite and schist. The Klondike assemblage (PK1, PK2) consists of muscovite-chlorite quartz phyllite, quartz-muscovite-chlorite schist, micaceous quartzite, psammite, phyllonite and schist. The Whitehorse Suite (mKqW, mKgW), a phase of the Dawson Range Batholith, consists of biotite quartz monzonite, biotite granite, leucogranite, monzogranite, granodiorite, diorite, granite and tonalite. (Ryan et al., 2013). The Klinkit (CK1) is composed of mafic to intermediate metavolcaniclastic and metavolcanics rocks, with minor limestone and conglomerate (Colpron et al., 2006; Roots et al, 2004).

5.2 Property Geology

The Twenty Mile property is underlain by an Upper Cretaceous Carmacks volcanics unit from the mouth of the Twenty Mile Creek to 8 km upstream. This unit, uKC1, is composed of basalt, breccia, andesite, porphyry, dacite and trachyte with minor conglomerates and agglomerates. The upper portion of the creek is underlain by the Devonian Snowcap assemblage consisting of quartzite, psammite, pelite and marble; minor greenstone and amphibolite. Minor areas are underlain by the Mississippian Simpson Range consisting of orthogneiss, metagranodiorite, metadiorite and metatonalite and the Carboniferous Finlayson assemblage composed of intermediate to mafic volcanic and volcanoclastic rocks with the major lithology being amphibolite.

5.3 Glacial Geology

The Twenty Mile property is in an unglaciated part of the Yukon surrounded by the Pre-Reid Glacial Limit. The unglaciated terrain is a prime target for placer exploration as the material has not been re-worked and buried by the numerous glacial events, thus the placer gold should be located close to the hard rock sources.

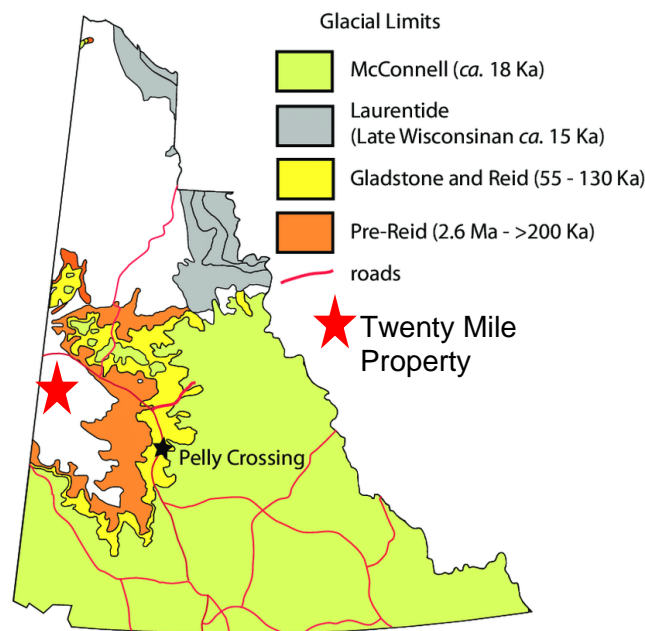


Figure 5: Glacial Map of the Yukon

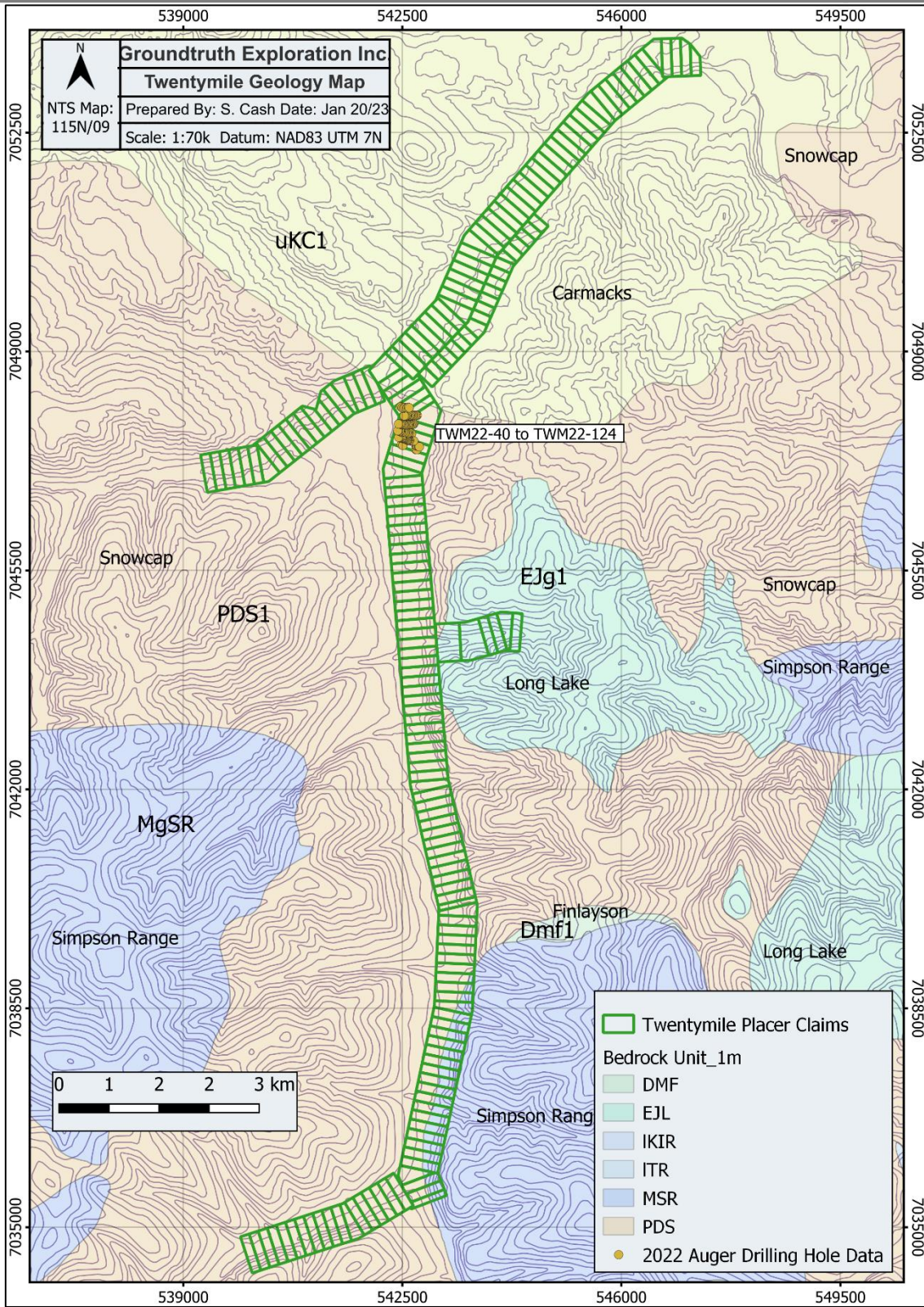


Figure 6: Twenty Mile Creek Geology Map

6 Auger Drilling

6.1 Work Performed

The 2022 Auger Drill Program on Twentymile Creek consisted of eighty-five holes: TWM22-34 to TWM22-118. A total of 2272.5 ft was drilled between September 18th to October 7th.

6.2 Working Procedure for Auger Drilling

The Auger Drill is mounted on the back of a Bombardier Muskeg track machine. The drill is powered off the Muskegs diesel engine. The Auger drill was set up with 5" diameter auger flights and a ~6" Auger bit. There are four hydraulically operated vertical outriggers on the drill for self-leveling on drill sites. The Auger drill on the Muskeg has a ground pressure of around 3.0psi allowing it to be low impact in the field.

The Auger drill is a medium weight exploration drill that drives a helical screw into the ground with rotation from the head. The cuttings are lifted up the hole by the flights of the screw while the head of the drill applies pressure to move the bit downward further into the ground. The material falls off the flights once it reaches the surface and falls on a steel plate with a lip to contain the material where it is then shoveled into a 5 gallon pail every 2.5 ft. Prospective gravel samples were isolated and processed in a Le Trap Gold concentrator to find gold.



Figure 8: Muskeg Auger Drill



Figure 9: Auger sample collection

6.3 Data Processing

Drillhole data is logged nightly into a drillhole database. The following is logged for each drill hole – Hole ID, XY Coordinates, Drill Method, Hole Diameter, Drill Date, Overburden type and thickness, Bedrock Depth, Total Hole Depth and Recovered Au mg (visually estimated). A section is drafted of each drillhole fence with topography and creek location.

Pay gravels are sluiced onsite during drilling through a custom built Le Trap sluice. The concentrate is captured in a basin at the end of the grizzly bars and put through the sluice a second time. Concentrate is then hand panned and gold grain count and weight estimate is done visually. As a Quality control measure on sluicing and panning, 1 piece of visually distinct gold is added to the concentrate on the second sluicing run and an additional 1 piece of distinct gold are added to the pan. Both pieces are retrieved prior to gold grain count after panning as a check against gold loss in the process.

Gold recovery estimates in milligrams are done visually by the panner onsite using the YGS Gold grain estimate card relative to counts by gold grain size. These visual gold estimates are compared against a library of reference drill hole gold grain recovery examples from actual weighed amounts to ensure accurate estimates.



YGS Placer Gold Scale for reference on visual estimate calculations



Figure 10: The Le Trap Sluice used to process the samples.

6.4 Results

The table and figure below indicate hole locations, total drilled depth and bedrock depth for all holes drilled on the Twentymile placer 2022 Auger drill program. The downhole logs of each hole are in Appendix A.

Hole ID	Drilling Method	Hole Diameter	X	Y	Gravel Depth ft	Bedrock Depth ft	Total Depth ft	Actual AU mg
TWM22-40	AUGER Drill	5"	542497	7047512	14	23	26	2
TWM22-41	AUGER Drill	5"	542485	7047513	5	26	29	1
TWM22-42	AUGER Drill	5"	542510	7047509	7	21	24	0.5
TWM22-43	AUGER Drill	5"	542646	7047684	8	14	19	0
TWM22-44	AUGER Drill	5"	542616	7047700	4	19	24	2
TWM22-45	AUGER Drill	5"	542595	7047706	6	17	24	0.5
TWM22-46	AUGER Drill	5"	542585	7047689	6	18	26	7
TWM22-47	AUGER Drill	5"	542508	7047499	9	21	25	2
TWM22-48	AUGER Drill	5"	542716	7047433	19	15	19	0.5
TWM22-49	AUGER Drill	5"	542731	7047430	21	17	19	0.5
TWM22-50	AUGER Drill	5"	542722	7047490	13	17	19	5
TWM22-51	AUGER Drill	5"	542734	7047488	5	16	19	2
TWM22-52	AUGER Drill	5"	542752	7047486	7	16	18	0.5
TWM22-53	AUGER Drill	5"	542766	7047481	16	17	19	2

Hole ID	Drilling Method	Hole Diameter	X	Y	Gravel Depth ft	Bedrock Depth ft	Total Depth ft	Actual AU mg
TWM22-54	AUGER Drill	5"	542772	7047476	12	18	23	0
TWM22-55	AUGER Drill	5"	542654	7047568	10	19	16	0.5
TWM22-56	AUGER Drill	5"	542683.2	7047572	8	0	9	0
TWM22-57	AUGER Drill	5"	542617	7047575	9	0	9	0
TWM22-58	AUGER Drill	5"	542604	7047579	10	18	19	0.5
TWM22-59	AUGER Drill	5"	542592	7047581	10	19	22	7.5
TWM22-60	AUGER Drill	5"	542582	7047584	12	20	29	0.5
TWM22-61	AUGER Drill	5"	542574	7047587	8	20	24	4.8
TWM22-62	AUGER Drill	5"	542563	7047595	13	21	24	1.3
TWM22-63	AUGER Drill	5"	542551	7047603	12	22	24	0
TWM22-64	AUGER Drill	5"	542537	7047604	12	19	24	3.6
TWM22-65	AUGER Drill	5"	542525	7047605	11	19	24	0.5
TWM22-66	AUGER Drill	5"	542519	7047611	15	21	24	0.5
TWM22-67	AUGER Drill	5"	542505	7047612	19	22	24	0.5
TWM22-68	AUGER Drill	5"	542496	7047614	19	25	29	0.5
TWM22-69	AUGER Drill	5"	542487	7047617	18	27	29	5.1
TWM22-70	AUGER Drill	5"	542476	7047622	19	30	34	7.8
TWM22-71	AUGER Drill	5"	542463	7047624	24	36	38	1.9
TWM22-72	AUGER Drill	5"	542452	7047627	30	37	41	0.5
TWM22-73	AUGER Drill	5"	542440	7047629	39	47	52	0.5
TWM22-74	AUGER Drill	5"	542586	7047692	10	17	19	8.1
TWM22-75	AUGER Drill	5"	542568	7047699	11	20	24	3.1
TWM22-76	AUGER Drill	5"	542549	7047703	13	19	23	4.5
TWM22-77	AUGER Drill	5"	542536	7047704	11	23	27	1
TWM22-78	AUGER Drill	5"	542520	7047712	16	26	29	2
TWM22-79	AUGER Drill	5"	542501	7047711	22	30	34	2.4
TWM22-80	AUGER Drill	5"	542483	7047711	24	37	44	1.7
TWM22-81	AUGER Drill	5"	542469	7047722	27	39	43	2
TWM22-82	AUGER Drill	5"	542457	7047724	33	42	44	21.5
TWM22-83	AUGER Drill	5"	542439	7047732	40	47	52	1.9
TWM22-84	AUGER Drill	5"	542427	7047735	47	54	54	3
TWM22-85	AUGER Drill	5"	542682	7047842	6	21	24	2
TWM22-86	AUGER Drill	5"	542670	7047839	12	23	29	1.9
TWM22-87	AUGER Drill	5"	542657	7047831	13	21	24	5
TWM22-88	AUGER Drill	5"	542638	7047831	9	19	24	7.5
TWM22-89	AUGER Drill	5"	542621	7047831	11	20	24	0.5
TWM22-90	AUGER Drill	5"	542607	7047833	9	20	27	2.4
TWM22-91	AUGER Drill	5"	542594	7047829	7	23	27	2.4

Hole ID	Drilling Method	Hole Diameter	X	Y	Gravel Depth ft	Bedrock Depth ft	Total Depth ft	Actual AU mg
TWM22-92	AUGER Drill	5"	542579	7047828	9	20	24	2.2
TWM22-93	AUGER Drill	5"	542566	7047830	15	23	26	3.4
TWM22-94	AUGER Drill	5"	542551	7047825	16	24	29	3.3
TWM22-95	AUGER Drill	5"	542534	7047826	14	22	24	0.5
TWM22-96	AUGER Drill	5"	542524	7047828	14	22	24	7.4
TWM22-97	AUGER Drill	5"	542510	7047831	15	24	29	0.5
TWM22-98	AUGER Drill	5"	542490	7047831	22	31	34	2
TWM22-99	AUGER Drill	5"	542479	7047840	27	36	39	1
TWM22-100	AUGER Drill	5"	542467	7047837	33	41	44	2
TWM22-101	AUGER Drill	5"	542454	7047839	39	48	53	2
TWM22-102	AUGER Drill	5"	542439	7047842	43	50	54	0.5
TWM22-103	AUGER Drill	5"	542737	7047981	9	19	24	1
TWM22-104	AUGER Drill	5"	542725	7047978	14	20	23	2
TWM22-105	AUGER Drill	5"	542711	7047980	15	18	26	3
TWM22-106	AUGER Drill	5"	542692	7047975	11	20	26	4.9
TWM22-107	AUGER Drill	5"	542676	7047981	12	19	23	1.9
TWM22-108	AUGER Drill	5"	542662	7047978	11	23	28	0.5
TWM22-109	AUGER Drill	5"	542645	7047982	9	20	24	1
TWM22-110	AUGER Drill	5"	542630	7047981	13	21	24	3.1
TWM22-111	AUGER Drill	5"	542617	7047975	10	18	24	3
TWM22-112	AUGER Drill	5"	542601	7047975	8	16	19	5.5
TWM22-113	AUGER Drill	5"	542584	7047979	11	17	22	0.5
TWM22-114	AUGER Drill	5"	542571	7047974	9	15	19	1
TWM22-115	AUGER Drill	5"	542556	7047972	9	16	24	3.5
TWM22-116	AUGER Drill	5"	542544	7047970	8	16	19	2.8
TWM22-117	AUGER Drill	5"	542529	7047972	5	19	22	2
TWM22-118	AUGER Drill	5"	542476	7048116	4	16	23	0.5
TWM22-119	AUGER Drill	5"	542496	7048102	3	15	19	5.5
TWM22-120	AUGER Drill	5"	542516	7048093	10	13	19	6.4
TWM22-121	AUGER Drill	5"	542536	7048105	6	15	18.5	3
TWM22-122	AUGER Drill	5"	542574	7048101	2.5	18	23	2
TWM22-123	AUGER Drill	5"	542593	7048108	6	18	22	0.5
TWM22-124	AUGER Drill	5"	542610	7048100	9	18	21	0.5

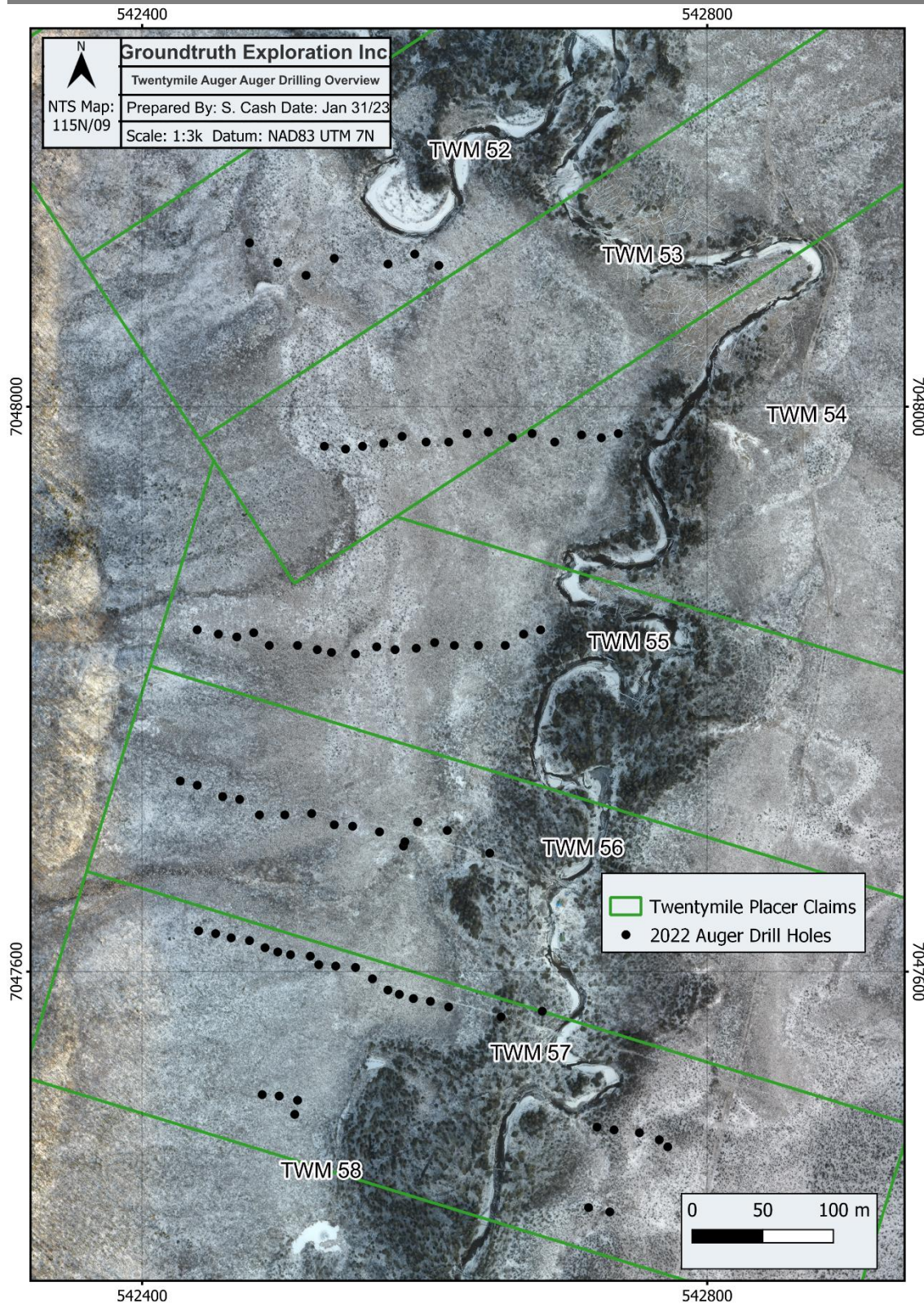


Figure 11: Twenty Mile Auger Drilling Overview

7 Discussion and Interpretation

The 2022 Auger Drilling Program expanded the paystreaks around the central 2021 and 2022 RAB drilling. The Auger did not drill the results expected with the 5" Auger flights and ~6" Bit compared to the RAB drill in 2021 and 2022. Being the first Auger program, the quality control and drilling bits had its learning curve. The Auger performs poorly in wet and thawed ground which was encountered along the creeks up to 30 meters away in some areas. Further bulk testing will be required to confirm the results of the Auger drill results. The wear of the Auger bit was of concern as it was changing frequently in size as the carbide teeth break downhole, a 6" auger bit was the objective however the bit was closer to 5" after wearing down downhole. However, the lack of large rocks and minimal muck makes this property an ideal place to auger drill.



Figure 11.5: The Auger drill set up on a drill hole in the Twentymile creek.

The following figures on the next pages plot:

- 1) Drilled depth to bedrock from each hole. (Figure: 12)
- 2) Gold recovery for each drillhole for the Auger Drill. (Figure:13)

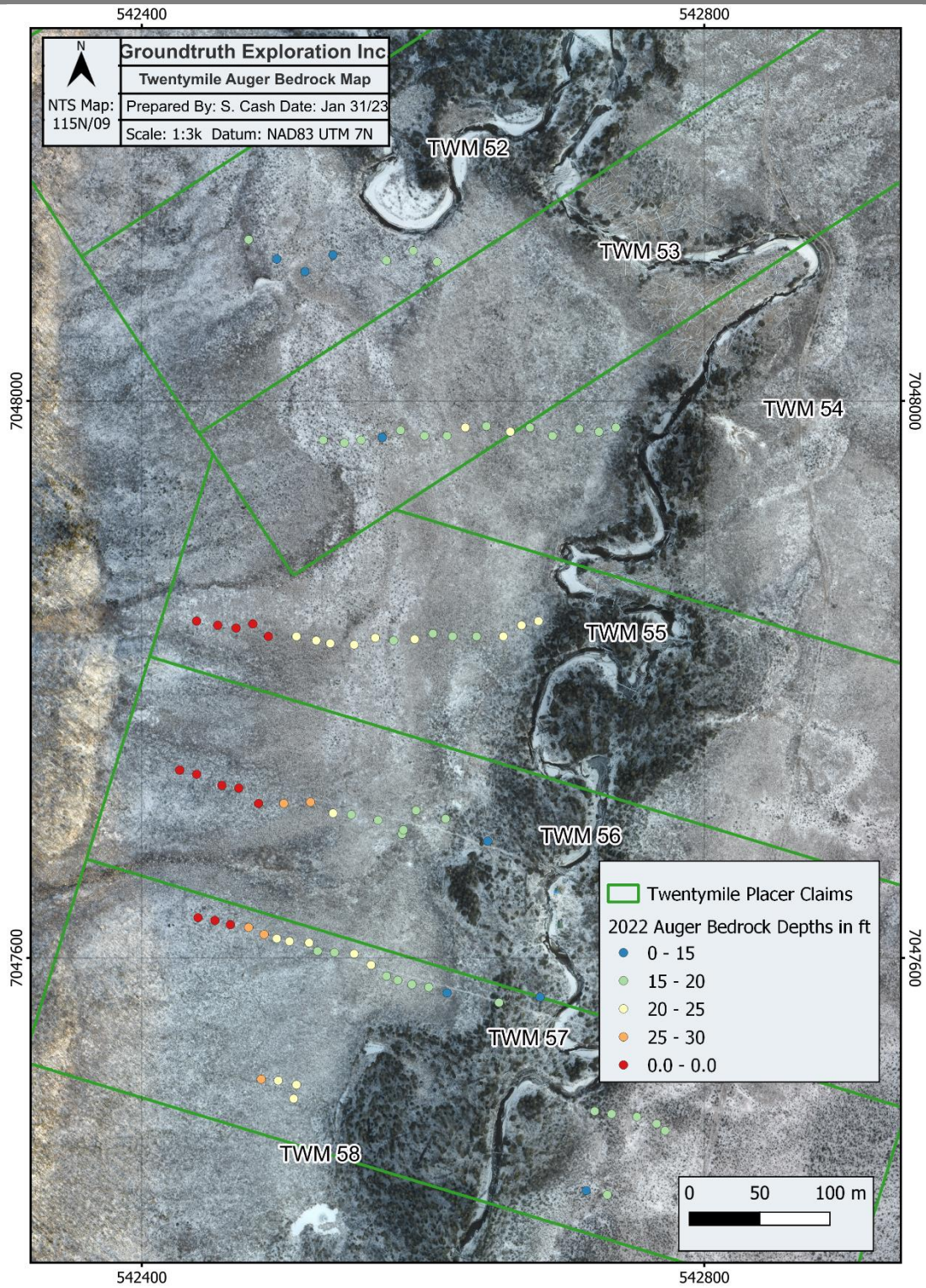


Figure 12: Twentymile Auger Drilling Bedrock depths

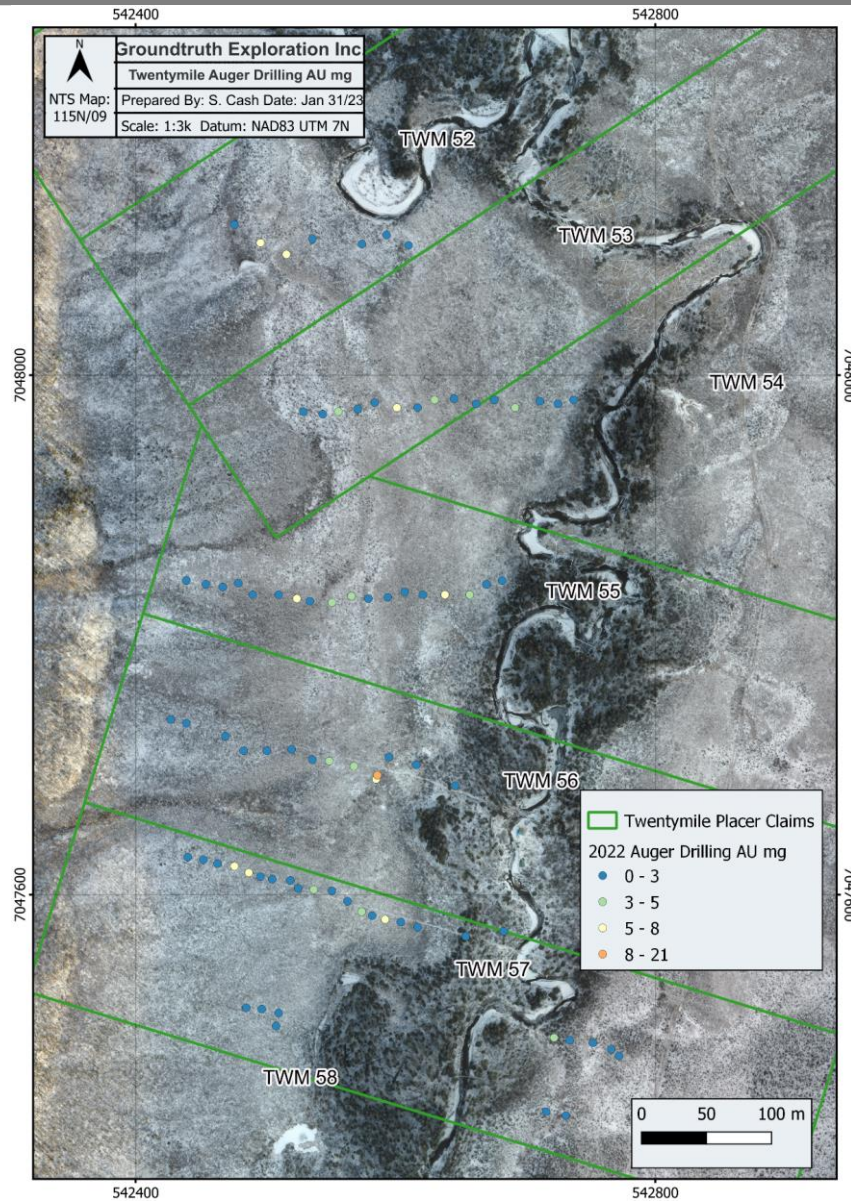


Figure 13: Twentymile Auger Drilling results in mg



Yukon Geological Survey- Placer Drilling Grade Calculator INPUTS						RESULTS		
Drill hole diameter (inches)	Length of sample (inches)	Gold in drill sample (mg)	fineness of gold (%)	Gold price (CDN)	Volume of sample (cubic yds)	Grade (\$ per bank cubic yard)	Fine ounces per cubic yard	Fine grams per cubic meter
5.00	36.00	3	85.00	\$ 2,600.00	0.015150	\$ 14.07	0.005	0.220
5.00	36.00	5	85.00	\$ 2,600.00	0.015150	\$ 23.45	0.009	0.367
5.00	36.00	8	85.00	\$ 2,600.00	0.015150	\$ 37.52	0.014	0.587
5.00	36.00	21	85.00	\$ 2,600.00	0.015150	\$ 98.49	0.038	1.541

8 Recommendations

It is recommended to 1) Bulk test the 2022 Auger Drill holes with bulk sampling by means of shafting to confirm drill results. 2) Twin the 2022 Auger drill holes with a RAB or RC drill to test the auger results. 3) Conduct more geophysical surveys ahead of the drill for targets further upstream from the most south drill line to better understand the depth of the valley.

9 Expenditures

Auger Drilling, Fuel, Camp and onsite Sluicing

GroundTruth Exploration Inc., Crew of 4: Sep 18 to Oct 7

\$70,000.00

\$3,500/ Shift (all incl.) x20 shifts

Fixed Wing Support

Great River Air: YDA- Lammers: Sep 17, Oct 10

\$2,622.31

\$2,622.31

Helicopter Support

Great Slave Helicopters: Sep 17,19,20,24, Oct 1,6,8

\$23,707.31

\$23,707.31

River Barge

Schmidt Mining Corp.: Dawson City to Sixty Mile landing: September 7th

\$13,058.68

\$13,058.68

Report Writing:

\$2,500.00

Grand Total: \$111,888.30

10 Qualification

I, Simon Cash of Whitehorse, Yukon, do hereby certify that:

1. I have worked in the mineral exploration field since 2016.
2. From 2016 to 2023 I worked for GroundTruth Exploration Inc.
3. I am not aware of any material fact or material change with respect to the subject matter of this report, the omission to disclose which makes this report misleading.
4. This report is compiled of data from drilling programs carried out under my supervision.

Dated this 31st day of January 2023

Respectfully submitted,



Simon Cash

11 References

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Regional Geology: Yukon Mining Map Viewer, Mining Claims Database –

<http://mapservices.gov.yk.ca/Mining/Load.htm>

Glacial Geology Map: https://www.researchgate.net/figure/Simplified-glacial-limits-map-of-the-Yukon-modified-from-Duk-Rodkin-1999_fig5_275970875

Mineral Titles: Yukon Mining Recorder, Mining Claims Database – www.yukonminingrecorder.ca

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Ryan, J. J., Zagorevski, A., Williams, S. P., Roots, C., Ciolkiewicz, W., Hayward, N., and Chapman, J. B., 2013. Geology of Stevenson Ridge (northeastern part), Yukon; Geological Survey of Canada, Canadian Geoscience Map 116 and 117.

12 Appendices

Appendix A: Downhole Logs for Auger Drilling

Hole ID	Muck Depth start ft	Muck depth finish ft	Gravel depth start ft	Gravel depth finish ft	Bedrock depth finish ft	Total depth
TWM22-40	0	14	14	21	21	25
TWM22-41	0	5	5	15	15	19
TWM22-42	0	7	7	17	17	19
TWM22-43	0	8	8	17	17	19
TWM22-44	0	4	4	16	16	19
TWM22-45	0	6	6	16	16	18
TWM22-46	0	6	6	17	17	19
TWM22-47	0	9	9	18	18	23
TWM22-48	0	19	19	23	23	26
TWM22-49	0	21	21	26	26	29
TWM22-50	0	13	13	21	21	24
TWM22-51	0	5	5	14	14	19
TWM22-52	0	7	7	19	19	24
TWM22-53	0	16	16	17	17	24
TWM22-54	0	12	12	18	18	26
TWM22-55	0	10	10	19	19	16
TWM22-56	0	8	8	0	0	9
TWM22-57	0	9	9	0	0	9
TWM22-58	0	10	10	18	18	19
TWM22-59	0	10	10	19	19	22
TWM22-60	0	12	12	20	20	29
TWM22-61	0	8	8	20	20	24
TWM22-62	0	13	13	21	21	24
TWM22-63	0	12	12	22	22	24
TWM22-64	0	12	12	19	19	24
TWM22-65	0	11	11	19	19	24
TWM22-66	0	15	15	21	21	24
TWM22-67	0	19	19	22	22	24
TWM22-68	0	19	19	25	25	29
TWM22-69	0	18	18	27	27	29
TWM22-70	0	19	19	30	30	34

Hole ID	Muck Depth start ft	Muck depth finish ft	Gravel depth start ft	Gravel depth finish ft	Bedrock depth finish ft	Total depth
TWM22-71	0	24	24	36	36	38
TWM22-72	0	30	30	37	37	41
TWM22-73	0	39	39	47	47	52
TWM22-74	0	10	10	17	17	19
TWM22-75	0	11	11	20	20	24
TWM22-76	0	13	13	19	19	23
TWM22-77	0	11	11	23	23	27
TWM22-78	0	16	16	26	26	29
TWM22-79	0	22	22	30	30	34
TWM22-80	0	24	24	37	37	44
TWM22-81	0	27	27	39	39	43
TWM22-82	0	33	33	42	42	44
TWM22-83	0	40	40	47	47	52
TWM22-84	0	47	47	54	54	54
TWM22-85	0	6	6	21	21	24
TWM22-86	0	12	12	23	23	29
TWM22-87	0	13	13	21	21	24
TWM22-88	0	9	9	19	19	24
TWM22-89	0	11	11	20	20	24
TWM22-90	0	9	9	20	20	27
TWM22-91	0	7	7	23	23	27
TWM22-92	0	9	9	20	20	24
TWM22-93	0	15	15	23	23	26
TWM22-94	0	16	16	24	24	29
TWM22-95	0	14	14	22	22	24
TWM22-96	0	14	14	22	22	24
TWM22-97	0	15	15	24	24	29
TWM22-98	0	22	22	31	31	34
TWM22-99	0	27	27	36	36	39
TWM22-100	0	33	33	41	41	44
TWM22-101	0	39	39	48	48	53
TWM22-102	0	43	43	50	50	54
TWM22-103	0	9	9	19	19	24
TWM22-104	0	14	14	20	20	23
TWM22-105	0	15	15	18	18	26
TWM22-106	0	11	11	20	20	26
TWM22-107	0	12	12	19	19	23
TWM22-108	0	11	11	23	23	28
TWM22-109	0	9	9	20	20	24

Hole ID	Muck Depth start ft	Muck depth finish ft	Gravel depth start ft	Gravel depth finish ft	Bedrock depth finish ft	Total depth
TWM22-110	0	13	13	21	21	24
TWM22-111	0	10	10	18	18	24
TWM22-112	0	8	8	16	16	19
TWM22-113	0	11	11	17	17	22
TWM22-114	0	9	9	15	15	19
TWM22-115	0	9	9	16	16	24
TWM22-116	0	8	8	16	16	19
TWM22-117	0	5	5	19	19	22
TWM22-118	0	4	4	16	16	23
TWM22-119	0	3	3	15	15	19
TWM22-120	0	10	10	13	13	19
TWM22-121	0	6	6	15	15	18.5
TWM22-122	0	2.5	2.5	18	18	23
TWM22-123	0	6	6	18	18	22
TWM22-124	0	9	9	18	18	21

