

Tatla Lake Pit No. 1928 Technical Summary

June 2025

Pit Name: Tatla Lake Pit

Provincial Pit Number: 1928

Location: Tatla Lake Pit is located approximately 1km north of the intersection of Highway 20 (Chilcotin Bella Coola Hwy) and Wr Graham Road in Tatla Lake, BC. The pit is directly on the east side of Wr Graham Road.

Geographic location: 51.90976, -124.61034

UTM 10N: 389310m E, 5752289m N. (Figure 1).

Legal Land Description: Tatla Lake Pit is managed by the Ministry of Transportation & Transit; Pit No. 1928, Crown Lands File No. 5400681. The area of interest is approximately 1.47 hectares within unsurveyed Crown Land. Legal Description: THAT PARCEL OR TRACT OF LAND IN THE VICINITY OF DL 320, RANGE 2, COAST DISTRICT, CONTAINING 1.4 HECTARES, MORE OR LESS (Figure 2).

Subsurface Investigation: Subsurface investigations at Tatla Lake Pit were carried out in 2025 by The Ministry of Transportation & Transit.

In 2025 seven (7) test pits were excavated to depths ranging from 4.5 to 4.9m. During the test pitting, subsurface soil and groundwater conditions were logged and representative samples of the granular materials were collected for laboratory testing and future reference. Laboratory testing was carried out on all of the samples at Tetra Tech laboratories to assess the gradation and durability characteristics. The tests completed were wet sieve analyses and an Atterberg Limits test.

Based on the results of the 2025 investigation and historical mining in the pit, one (1) granular area - Area A, has been defined (Figure 3). The detailed results of the subsurface testing are provided in the Test Pit Summaries and test pit locations are shown on the Pit Development Plan (Figure 3).

Material Gradation: Table 1 shows the gradation as a percentage by weight of the fines (silts and clays), sand and gravel components as well as the Unified Soil Classification (USC [included after test pit summary]) for the samples tested from Area A.

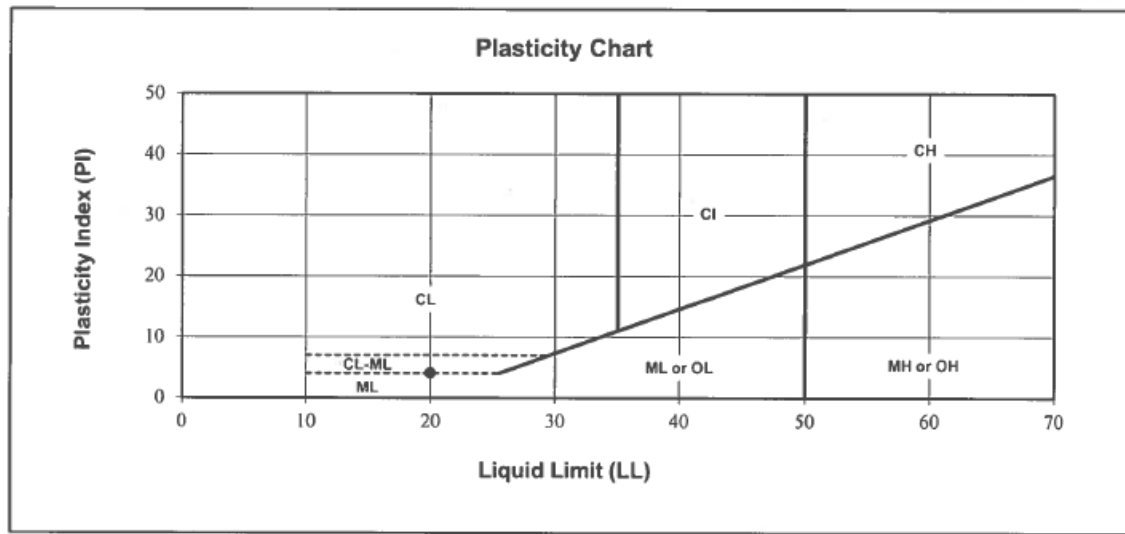
Table 1: Pit Run Gradation

Test Pit	Depth (m)	Fines (%)* <0.075mm	Sand (%)* 0.075-4.75mm	Gravel (%)* 4.75-75mm	USC
Area A					
TP25-01	4.8	59	35	6	SM5
TP25-02	4.3	79	16	5	SM7
TP25-03	4.6	79	18	3	SM7
TP25-04	4.2	51	30	19	SM5
TP25-05	4.4	50	41	9	SM5
TP25-06	4.2	37	42	21	SM3
TP25-07	4.3	74	24	2	SM7
Average – Area A		61	29	9	-

* Values are rounded to the nearest whole number so may not add exactly to 100%

Oversize rock encountered while testing accounted for less than 1% of all material. Visual oversize estimates are included in the Test Pit Logs enclosed in this report.

Atterberg Limits Test Report are shown below:



Liquid Limit (LL) :	20	Natural Moisture (%)	9.5
Plastic Limit (PL) :	16	Soil Plasticity:	Low
Plasticity Index (PI) :	4	Mod.USCS Symbol*:	CL-ML

Material Suitability: Based on the 2025 investigation results, the material in Tatla Lake Pit is suitable only as a blend source for High Fines Surface Aggregate.

Sulphate and Chloride Testing

Sulphate and Chloride testing was not conducted for the material in Tatla Lake Pit.

Volume Estimates: Table 2 shows the volume estimates that can be expected for overburden and gravel from Area A. This is based on the measured depths encountered during the subsurface investigation. The potential volumes of granular material were calculated by averaging the total thickness of granular material encountered in test pits and multiplying by the estimated surface area.

Table 6: Volume Estimates

Area A ~1.0ha.	Overburden	Granular Material
Average Layer Thickness (m)	0.3	4.4
Volume (m³)	1,000	44,000

Pit Development Notes

- All development must be carried out in accordance with the Health, Safety, and reclamation Code for Mines in British Columbia, BC Ministry of Energy and Mines (2024, or later edition), the Standard Specifications for Highway Construction, BC Ministry of Transportation and Transit (2025, or later edition) and the Aggregate Operators Best Management Practices Handbook for BC.
- The water table was not encountered during test pitting.
- Area A can be accessed directly from Wr Graham Road. The main face is approximately 15 meters from the road. Signage and/or flagging may be required during mining.
- Area A has been partially logged above the face but may require additional clearing, grubbing and stripping of overburden prior to extraction of granular materials.
- All trees, vegetation, and overburden are to be removed within 2m of the top of the pit faces. Topsoil, overburden, and aggregate cannot be removed within five meters of the reserve boundary.
- Development in Area A should start from the existing pit face and continue in an easterly direction as shown in the Development Plan (Figure 3).
- No dumping of debris or petroleum products will be permitted, and the site must be left in a clean and safe condition.
- At the completion of the pit development operations, but prior to the depletion of the pit, the sides of the pit faces, waste piles, and overburden stockpiles must be

trimmed to a 1.5H:1V slope. Active pit faces must be reshaped with native granular materials.

- Upon depletion of the pit, all disturbed areas are to be reclaimed. The minimum reclamation procedure should include re-sloping of the pit faces and waste piles to a 2H:1V slope, contouring the area for appropriate drainage, spreading of overburden followed by topsoil, and seeding.
- Should any of the above conditions conflict with the Health, Safety, and Reclamation Code for Mines in British Columbia, then the Code will prevail.

Closure

The findings of this report and the soil conditions noted above are inferred from the extrapolation of limited surface and subsurface data collected during the site investigation. It should be noted that different and possibly poorer soil conditions may exist between the test pit locations and volume estimates may vary from those reported in this report.

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Enclosures

Figures:

Figure 1 - Location Plan

Figure 2 - Pit Plan

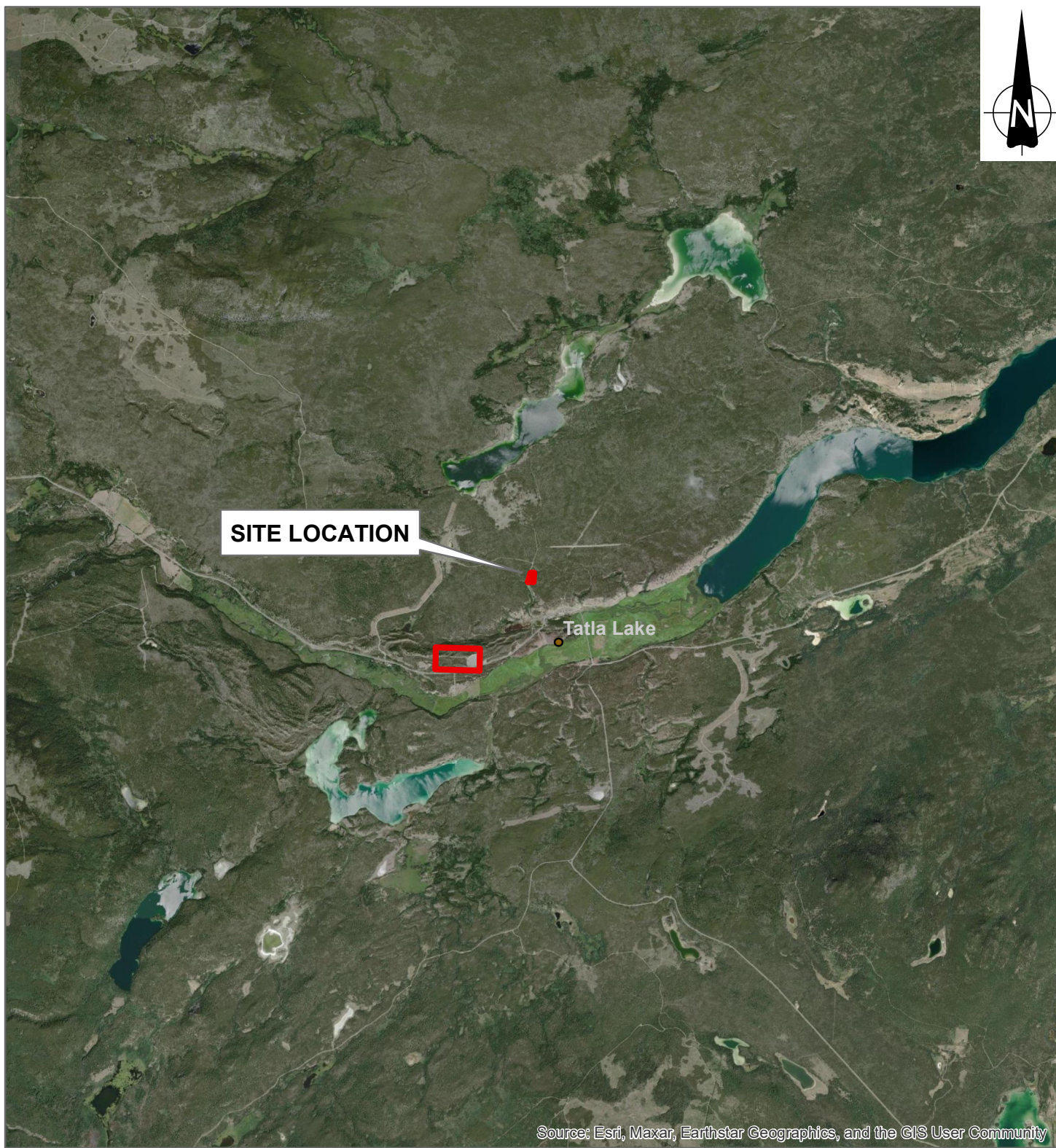
Figure 3 - Development Plan

Test Pit Summary

USC Legend

Photos

Figures



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

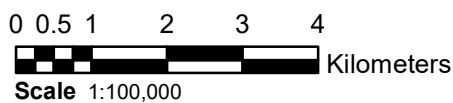


Ministry of Transportation and Infrastructure
Geotechnical and Materials Branch



LOCATION PLAN (2024)
Tatla Lake Pit No. 1928
SA 17 - CENTRAL CARIBOO DISTRICT

DRAWN BY: STELEE	PROJECTION: NAD 1983 UTM Zone 10N	SCALE: As Shown
CHECKED BY: A.Mitchell	DATUM: NAD 1983 UTM Zone 10N	DATE: 2024-05-01
FileName: GISTemplate_Gravel_Provincial_2023-03-16	Geotech Project No: 2	Reg: 2
		Drawing No: FIGURE 1



This drawing was originally produced in colour.



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

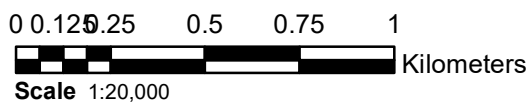


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LEGAL PLAN (2024)
Tatla Lake Pit No. 1928
SA 17 - CENTRAL CARIBOO DISTRICT

DRAWN BY:	STELEE	PROJECTION:	NAD 1983 UTM Zone 10N	SCALE:	As Shown
CHECKED BY:	A.Mitchell	DATUM:	NAD 1983 UTM Zone 10N	DATE:	2024-05-01
FileName:	GISTemplate_Gravel_Provincial_2023-03-16	Geotech Project No:	2	Drawing No:	FIGURE 2



This drawing was originally produced in colour.

Test Pit Summaries

AGGREGATE LOG

PROJECT: Tatla Lake

SAMPLED BY: Steven Lee

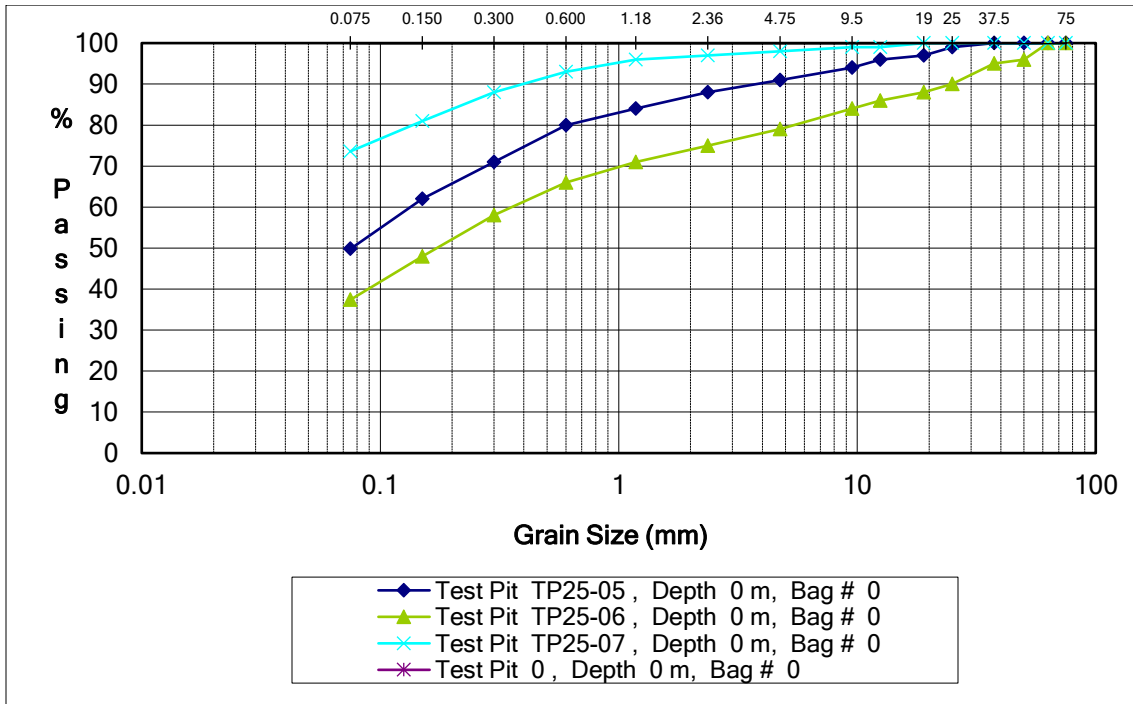
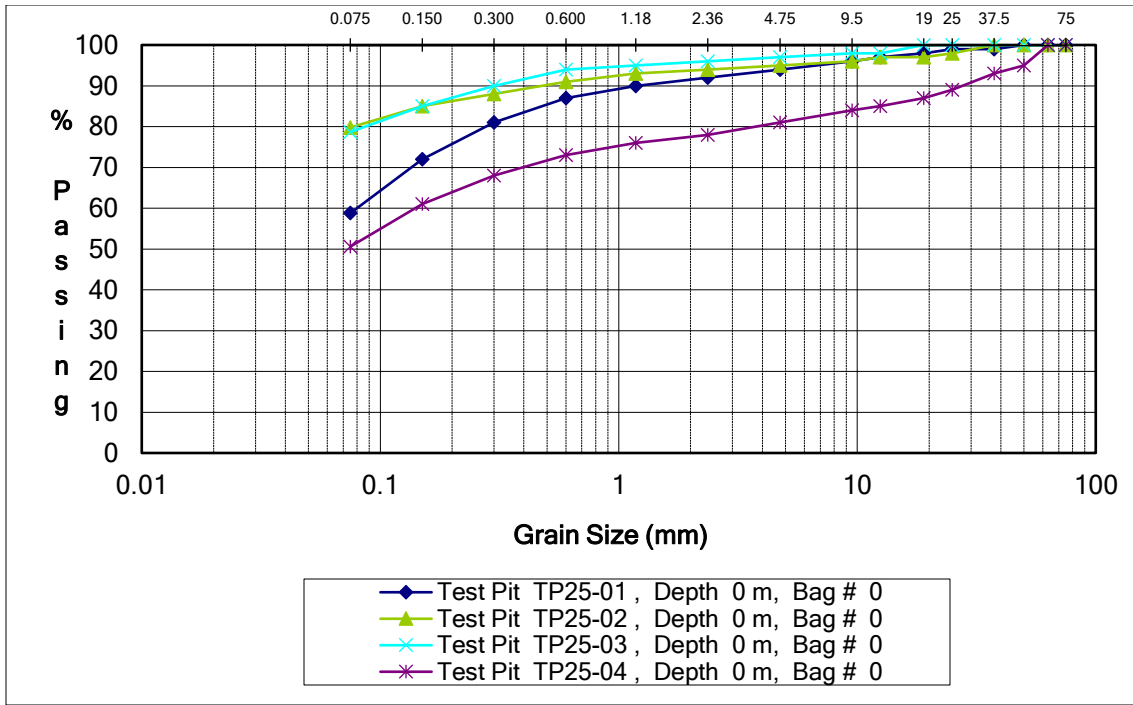
PIT #: 1928

METHOD: Excavator

DISTRICT: SA17 Central Cariboo

DATE: 15-May-25

TEST PIT NO.	DEPTH		SAMPLE BAG NO.	SOILS CLASS	ESTIMATED GRADATION			ESTIMATED ROCK 75mm				SAND TYPE F M C	REMARKS
	FROM	TO			G	S	F	MAX SIZE	75mm - 150mm	150mm - 375mm	>375mm		
TP25-01	0	4.8	TP20-01	SM8	8	8	84	100	<1	0	0	F	6/35/59
													Top of main face
TP25-02	0	0.2		OB									5/16/79
	0.2	4.5	TP20-02	SM8	10	10	80	450	2	1	1	F	
TP25-03	0	0.3		OB									3/18/79
	0.3	4.9	TP20-03	SM8	8	8	84	250	1	1	0	F	
TP25-04	0	0.3		OB									19/30/51
	0.3	4.5	TP20-04	SM8	10	6	84	310	2	1	0	F	
TP25-05	0	0.4		OB									9/41/50
	0.4	4.8	TP20-05	SM7	12	10	78	220	1	0	0	F	
TP25-06	0	0.5		OB									21/42/37
	0.5	4.7	TP20-06	SM7	12	10	78	700	2	1	<1	F	
TP25-07	0	0.5		OB									2/24/74
	0.5	4.8	TP20-07	SM8	8	8	84	300	1	1	0	F	



PROJECT REPORT OF				PERCENT PASSING													
SIEVE ANALYSIS SUMMARIES																	
Project:	0			Project No.:												0	
Sample No:	0			Client:												0	
Material:	PIT RUN			Date:												#####	
Test Pit	Percent Passing																
	Pit Run Sieve Sizes (mm)																
	75	63	50	37.5	25	19	12.5	9.5	4.75	2.36	1.18	0.6	0.3	0.15	0.075		
TP25-01	100.0	100.0	100.0	99.0	99.0	98.0	97.0	96.0	94.0	92.0	90.0	87.0	81.0	72.0	58.8		
TP25-02	100.0	100.0	100.0	100.0	98.0	97.0	97.0	96.0	95.0	94.0	93.0	91.0	88.0	85.0	79.8		
TP25-03	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	97.0	96.0	95.0	94.0	90.0	85.0	78.7		
TP25-04	100.0	100.0	95.0	93.0	89.0	87.0	85.0	84.0	81.0	78.0	76.0	73.0	68.0	61.0	50.6		
TP25-05	100.0	100.0	100.0	100.0	99.0	97.0	96.0	94.0	91.0	88.0	84.0	80.0	71.0	62.0	49.8		
TP25-06	100.0	100.0	96.0	95.0	90.0	88.0	86.0	84.0	79.0	75.0	71.0	66.0	58.0	48.0	37.4		
TP25-07	100.0	100.0	100.0	100.0	100.0	100.0	99.0	99.0	98.0	97.0	96.0	93.0	88.0	81.0	73.6		

USC Legend

MATERIALS CLASSIFICATION LEGEND

MAJOR DIVISIONS	SYMBOL	SOIL TYPE	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	WELL GRADED GRAVELS OR GRAVEL-SAND MIXTURES, < 5% FINES
		GP	POORLY-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, < 5% FINES
		GM*	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
		GC*	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY SOILS	SW	WELL-GRADED SANDS OR GRAVELLY SANDS, < 5% FINES
		SP	POORLY-GRADED SANDS OR GRAVELLY SANDS, < 5% FINES
		SM*	SILTY SANDS SAND-SILT MIXTURES
		SC*	CLAYEY SANDS SAND-CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS $w_L < 50$	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		OL	ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS $w_L > 50$	MH	INORGANIC SILTS, MICACEOUS OR DIATOMEACEOUS FINE SANDY OR SILTY SOILS, PLASTIC SILTS
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
ORGANIC SOILS	Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	
TOPSOIL	TS	TOPSOIL WITH ROOTS, ETC.	
COBBLES	SB	ROCK FRAGMENTS AND COBBLES, PARTICLE SIZE 75mm TO 300mm	
LARGE BOULDERS	LB	BOULDERS, PARTICLE SIZE OVER 300mm	
BEDROCK	BR	BEDROCK	
FOR SOILS HAVING 5 - 12% PASSING .075 SIEVE, USE DUAL SYMBOL			
*GM1; GC1; SM1; SC1; 12 - 20%		}	
GM2; GC2; SM2; SC2; 20 - 30%			
GM3; GC3; SM3; SC3; 30 - 40%			
GM4; GC4; SM4; SC4; 40 - 50%			
		PASSING .075mm SIEVE	

REV. 90-04-26

	PROVINCE of BRITISH COLUMBIA MINISTRY OF TRANSPORTATION & HIGHWAYS Geotechnical & Materials Engineering
<h3 style="margin: 0;">UNIFIED SOIL CLASSIFICATION LEGEND</h3>	
Drawn: LU	Date: JULY'97
File No.:	Scale: ACAD File: ACAD0709 20070709-000-000

Photos



TP25-01



TP25-01 spoil



TP25-03



TP25-03 spoil



Photo of undeveloped portion of Area A



An area of lower elevation separates TP25-05 and TP25-06/07



Drone photo facing south toward Tatla Lake. Some trees at the top of the face have been removed since this photo was taken.



Drone photo taken from same location as previous photo, facing northeast.