

# Technical Summary

May 2024

**Pit Name:** Yard Creek Loop

**Provincial Pit Number:** 0417

**Location:** The pit is located approximately 14km northeast of Sicamous via the TransCanada Highway 1, Oxbow Frontage Road, then Yard Creek Loop Road. (Figure 1).

**Legal Land Description:** The pit is legally described as that part of Section 19, Township 22, Range 6, W6M, KDYD. The pit is covered by a Crown Land Act Section 16 Map Reserve in the name of the Ministry of Transportation and Infrastructure. The Map Reserve is 12.269 hectares in size. The geographical coordinates are Universal Transverse Mercator Grid Zone 11, 372300 Easting, 5639600 Northing. The layout of the Map Reserve boundary is shown in the pit plan (Figure 2).

**Subsurface Investigation:** Subsurface investigations at Yard Creek Loop Pit were carried out in 1982, 1986, 2013 and 2018 by the Ministry of Transportation & Infrastructure.

In 1982 twenty-three (23) test holes were excavated to depths up to 7.0 m and in 1986 nine (9) test pits were excavated to depths up to 6.7 m. The results of these investigations are included in the appendix of this report.

In 2013 seven (7) test pits were excavated to depths of 6.0 m and in 2018, eleven (11) test pits were excavated to depths ranging from 4.0 m to 5.0 m. 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 eighteen (18) of these samples at Wood PLC laboratories to assess the gradation and durability characteristics. The tests completed were wet sieve analysis, micro-deval, sand equivalent, relative density, and absorption.

Based on the results of the 1982, 1986, 2013 and 2018 investigations, two suitable granular areas for mining have been defined – Development Area A and Development Area B. The detailed results of the subsurface testing are provided in the Test Pit Summaries and in the appendix, and test pit locations are shown on the Pit 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 for the samples tested from 2013 and 2018.

**Table 1: Pit Run Gradation**

Test Pit	Depth (m)	Fines (%)* <0.075mm	Sand (%)* 0.075- 4.75mm	Gravel (%)* 4.75-75mm	USC
<b>2013</b>					
TP13-01	1.5-6	1.1	48.2	50.7	GP
TP13-02	0-6	1.3	43.8	54.9	GP
TP13-03	0-6	2.5	45.5	52	GP
TP13-04	0-6	2	42.5	55.5	GP
TP13-05	0-6	2.1	47.1	50.8	GP
TP13-06	0-6	2	42	56	GP
TP13-07	0-6	2.4	37	61	GP
<b>Average</b>		1.9	43.7	54.4	-
<b>2018</b>					
TP18-01	1-5.3	0.7	60.5	38.8	SP
TP18-02	0.3-5.3	1.5	48.1	50.4	GP
TP18-03	0.3-4	0.8	58.4	40.9	SP
TP18-04	2.7-4.7	1.9	62.1	36	SP
TP18-05	0.4-4.3	0.7	56.2	43.1	SP
TP18-06	0.4-5	1.3	49	49.7	GP
TP18-07	0.3-2.5	1.1	61.7	37.2	SP
TP18-08	0.3-4.7	1.7	58	40.3	SP
TP18-09	0.3-5	2.1	40.1	57.8	GP
TP18-10	0.3-5	1.5	53.9	44.6	SP
TP18-11	0-5	0.7	54.1	45.3	SP
<b>Average</b>		1.3	54.7	44	-

**Oversize Field Estimates:** Table 2 shows the estimated percent of oversize rock as noted in the field during exploration.

**Table 2: Oversize Field Estimates**

1986

Classification:	Average (%)	Range (%)
Boulders (>375mm)	1.3	<1 – 4
Cobbles (150-375mm)	4.2	1 – 10
Cobbles (75-150mm)	7.3	3 – 12

Maximum rock size observed was 1040 mm.

**2013**

Classification:	Average (%)	Range (%)
Boulders (>375mm)	4.5	<1 – 20
Cobbles (150-375mm)	6.3	<1 – 10
Cobbles (75-150mm)	8.9	<1 – 15

Maximum rock size observed was 1200mm.

**2018**

Classification:	Average (%)	Range (%)
Boulders (>375mm)	0.9	0 – 2
Cobbles (150-375mm)	2.8	0 – 8
Cobbles (75-150mm)	5.9	3 – 12

Maximum rock size observed was 780mm.

**Material Durability:** Table 3 shows the results of the durability tests as well as the specifications as required in the Standard Specifications for Highway Construction. Degradation and Sand Equivalent test results from the 1982 and 1986 exploration programs are included in the Laboratory Testing Summary table in this report's appendix.

**Table 3: Durability Test Results**

Test Pit	Sand Equivalent	Micro Deval (% loss)	Absorption		Relative Density	
			Coarse	Fine	Coarse	Fine
<b>2013</b>						
TP13-01	70	13.4/10.4				
TP13-03			1.08	1.15	2.618	2.6
TP13-04	74	12/11.2				
<b>2018</b>						
TP18-03	83					
TP18-05		14.1/11.1				
TP18-07			1.17	1.13	2.622	2.596
TP18-10		13.4/11.1				
TP18-11	82					
<b>BC MoTI Specifications</b>						
Sand Equivalent		≥40 for base coarse and fine asphalt mix aggregate ≥20 for surfacing, sub-base and bridge end fill aggregates				

Micro Deval	$\leq 30\%$ for sub-base and bridge end fill aggregates $\leq 25\%$ for surfacing & base course aggregates $\leq 18\%$ for Class 1 Pavement asphalt mix aggregates $\leq 20\%$ for Class 2 Pavement asphalt mix aggregates
Absorption	$< 2.0\%$ for coarse paving aggregates $\leq 1.0\%$ for coarse and $\leq 1.5\%$ for fine graded aggregate seals
Relative Density	~2.65 for all aggregate products

**Material Suitability:** Based on the 2013 and 2018 investigation results, the material in the proposed suitability area is judged to be suitable for the following purposes:

**Table 4: Suitability**

	Pit Run	Crush
<b>Yard Creek Loop Suitability area</b>	Bridge End Fill SGSB	25mm WGB Asphalt Mix Aggregates

The samples tested meet the gradation, sand equivalent, and micro-deval specifications for base course, bridge end fill and asphalt mix aggregate. Based on the absorption results the samples meet the specification for coarse paving aggregates and fine graded aggregate seals; however, did not meet the specifications for coarse graded aggregate seals. With additional processing, such as crushing the oversize rocks (>75 mm diameter) with the gravel, absorption values may improve. Should the quality improve, the material may then be suitable for other aggregate products and graded aggregate seal.

### Sulphate and Chloride Testing

Table 5 shows the sulphate and chloride test results from a pit face sample from Yard Creek Loop Pit. These results are provided for information and have not been considered for material suitability.

**Table 5: Sulphate and Chloride Test Results**

Test Pit	Water-Soluble Sulphate	Water-Soluble Chloride
2020 Grab Sample	<0.050	<0.010



**Volume Estimates:** Table 6 shows the volume estimates that can be expected for topsoil, overburden and gravel from the proposed suitability area. 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**

<b>Suitability Area A (~2.8 ha)</b>	<b>Topsoil</b>	<b>Overburden</b>	<b>Granular Material</b>
<b>Average Layer Thickness (m)</b>	0.0	0.3	4.5
<b>Volume (m<sup>3</sup>)</b>	0	2,040	117,000
<b>Suitability Area B (~3.7 ha).</b>	<b>Topsoil</b>	<b>Overburden</b>	<b>Granular Material</b>
<b>Average Layer Thickness (m)</b>	0.0	0.0	6.0
<b>Volume (m<sup>3</sup>)</b>	0	0.0	222,000

### **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, Mines & Low Carbon Innovation (2022, or later edition), the Standard Specifications for Highway Construction, BC Ministry of Transportation and Infrastructure (2020, or later edition) and the Aggregate Operators Best Management Practices Handbook for BC.
- The mining area available for the Grindrod to Sicamous project has recently been developed but has not been mined. A pit face will have to be established.
- A stockpile of old asphalt is located in the southeast portion of the pit.
- A primary crusher capable of reducing all material up to 375mm x 450mm will be required.

- 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.
- The crusher is recommended to be located in the at the base of the the slope as identified on the Pit Development Plan, with mining proceeding in an eastern direction as indicated.
- Processed aggregate may be stockpiled where space permits. Additional grading may be required to establish a stockpile area.
- 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.

Prepared by:

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Reviewed by:

Laura Courtenay  
Sr. Aggregate Resource Specialist

## Enclosures

Figures:

Figure 1 - Location Plan

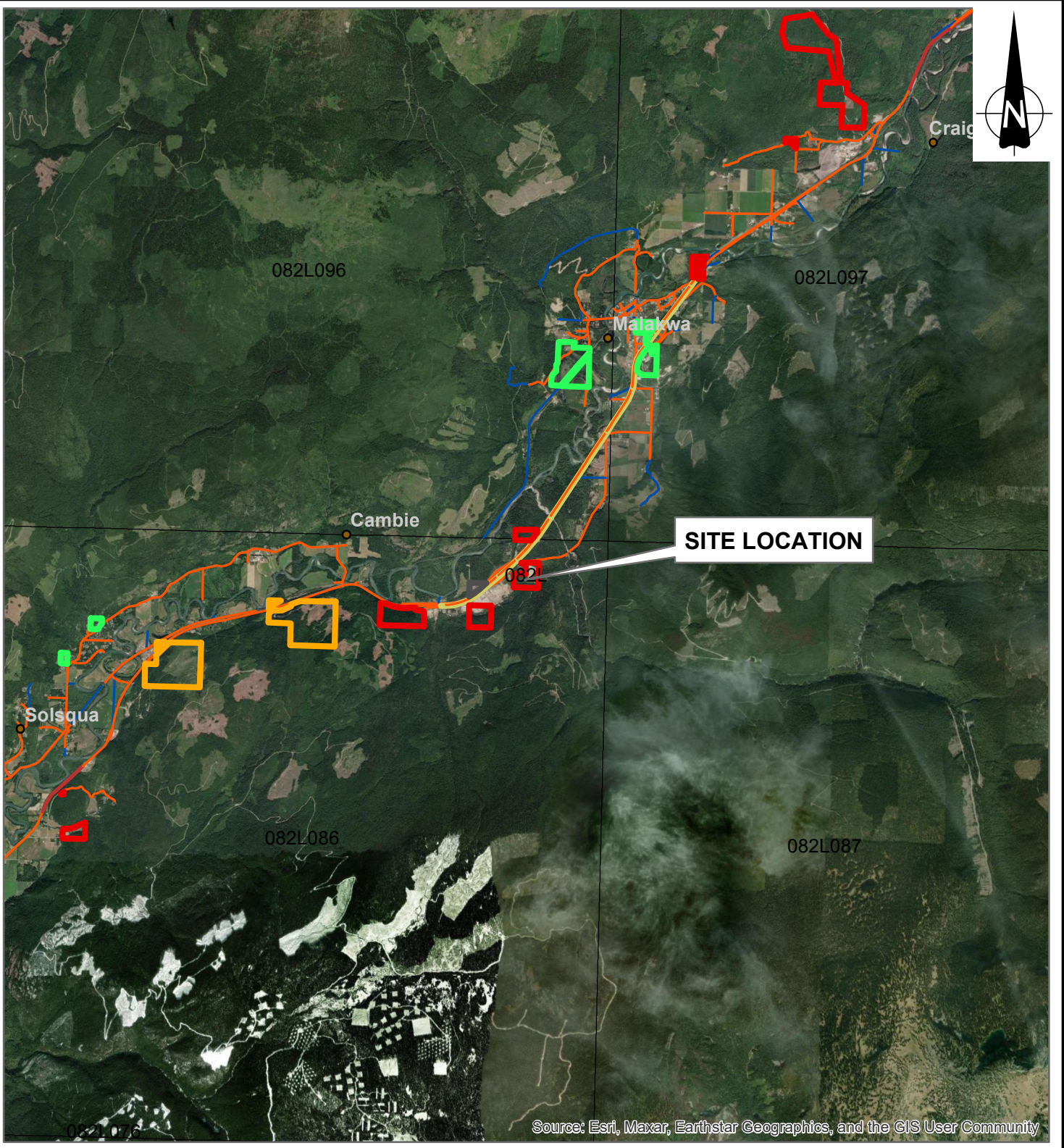
Figure 2 - Legal Plan

Figure 3 - Development Plan

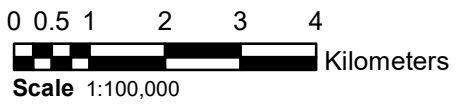
Test Pit Logs


Wet Sieve Analysis Chart  
Aggregate Gradation Charts  
USC Legend  
Photos

## Figures



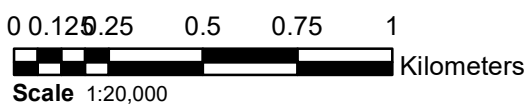
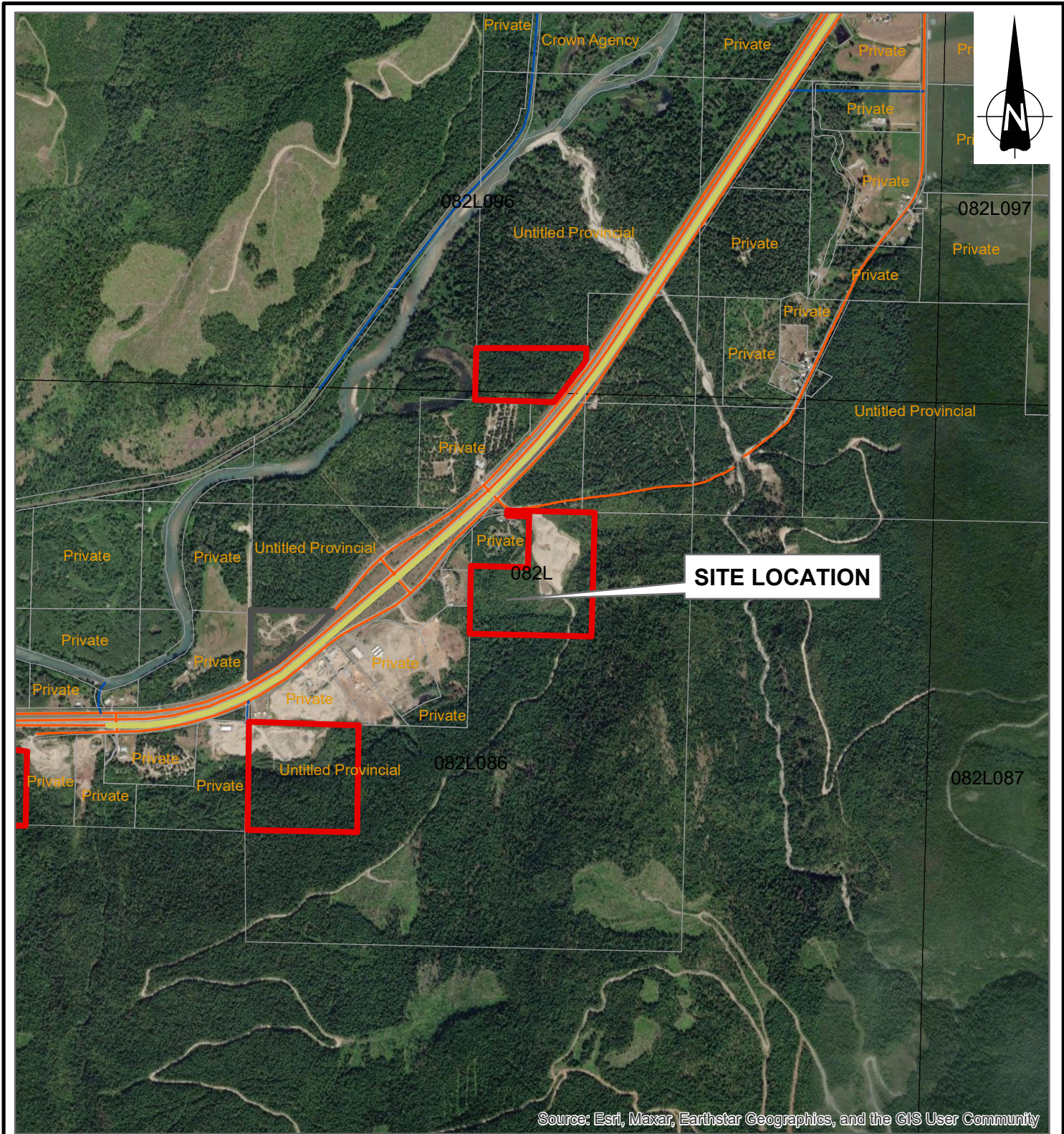
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community




 Ministry of Transportation and Infrastructure Geotechnical and Materials Branch					
<b>LOCATION PLAN (2024)</b> <b>Yard Creek Loop Pit No. 0417</b> <b>SA 13 - OKANAGAN SHUSWAP DISTRICT</b>					
DRAWN BY:		PROJECTION:		SCALE:	
STELEE		NAD 1983 UTM Zone 11N		As Shown	
CHECKED BY:		DATUM:		DATE:	
A.Mitchell		NAD 1983 UTM Zone 11N		2024-05-22	
FileName:		Geotech Project No:		Reg:	
GISTemplate_Gravel_Provincial_2023-03-16				2	
				Drawing No:	
				<b>FIGURE 1</b>	

This drawing was originally produced in colour.

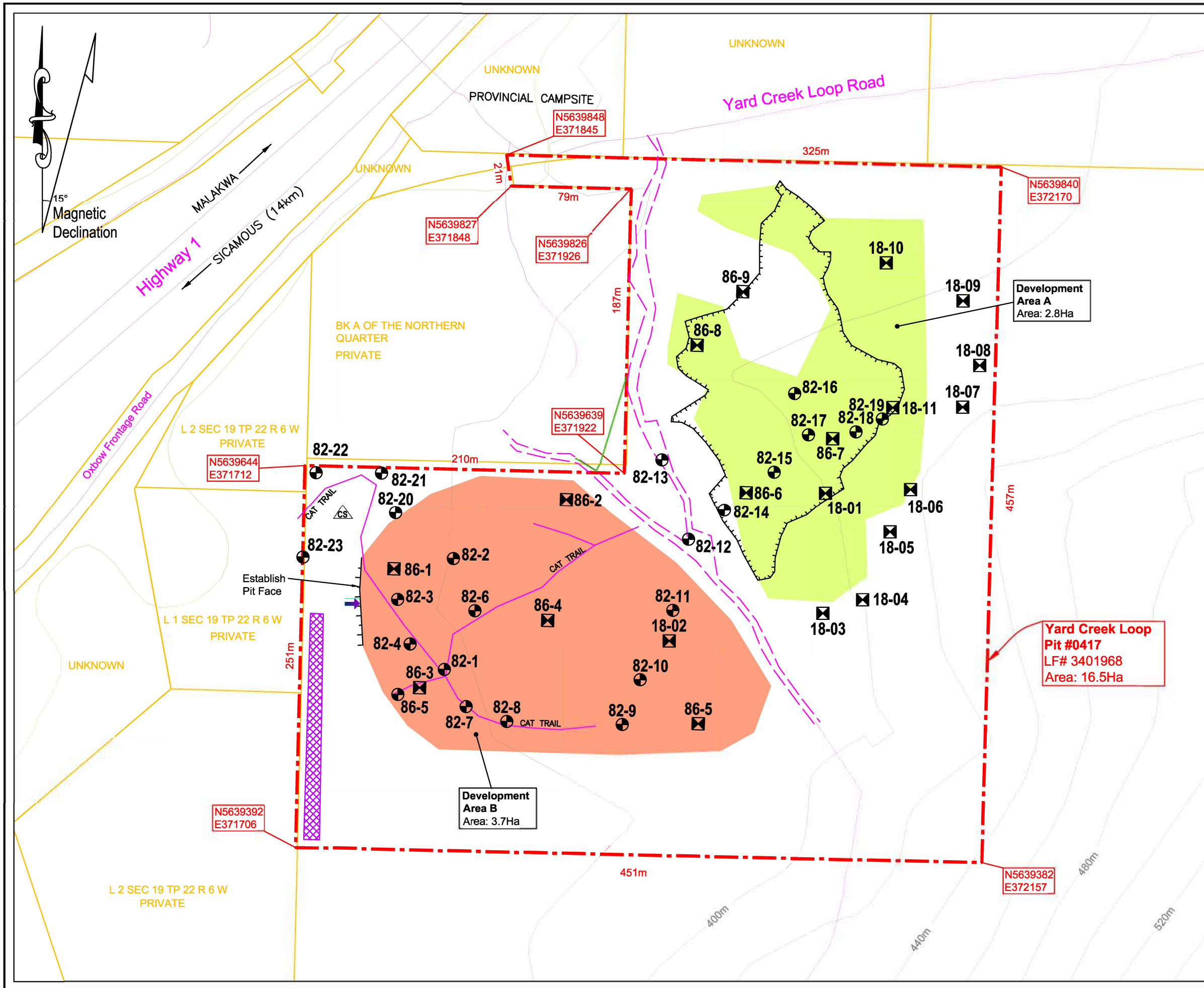




 Ministry of Transportation and Infrastructure Geotechnical and Materials Branch			
<b>LEGAL PLAN (2024)</b> <b>Yard Creek Loop Pit No. 0417</b> SA 13 - OKANAGAN SHUSWAP DISTRICT			
DRAWN BY:	PROJECTION:	SCALE:	
STELEE	NAD 1983 UTM Zone 11N	As Shown	
CHECKED BY:	DATUM:	DATE:	
A.Mitchell	NAD 1983 UTM Zone 11N	2024-05-22	
FileName:	Geotech Project No:	Reg:	
GISTemplate_Gravel_Provincial_2023-03-16		2	
		Drawing No:	
		<b>FIGURE 2</b>	

This drawing was originally produced in colour.





### PIT DEVELOPMENT LEGEND

NATURAL EMBANKMENT	TREELINE
PIT FACE	CONTOURS
TEST PIT	BUILDING (symbolic)
TEST HOLE	IRON PIN
TEST PIT (DEPLETED)	SWAMP
ROAD	STOCKPILE
CREEK	NO DISTURBANCE
TRAIL	DEVELOPMENT DIRECTION
CADASTRE	POTENTIAL DEVELOPMENT
TANTALIS	OVERBURDEN STOCKPILE
GRAVEL RESERVE BOUNDARY	CRUSHER LOCATION
PROPOSED GRAVEL RESERVE BOUNDARY	
GRAVEL RESERVE TO BE DELETED	
OCCUPATIONAL LICENSE TO CUT AREA	
DEVELOPMENT AREA A	
DEVELOPMENT AREA B	

### DRAWING NOTES:

1. Base data provided from Trim Map 82L.086, (20m Contours)
2. Cadastre and Tantalus Lines were provided from online sources.
3. Some testpits and/or testholes may not be representative of current conditions due to development and excavation done after testing.
4. Some extraction may have occurred since the last GPS survey of the pit was undertaken, therefore pit faces and stockpiles may not be representative of current conditions.

### PIT DEVELOPMENT NOTES:

1. Pit development must be carried out in accordance with the Health, Safety, and Reclamation Code for Mines in BC, the current Standard Specifications for Highway Construction, and the Aggregate Operations Best Management Practices Handbook for BC.
2. Development Area B is the designated mining area for the H97A Grindrod to Sicamous project. It has been cleared, grubbed, and stripped but no excavation has occurred.
3. Development of Area B should establish a pit face and directed towards the East.
4. The contractor must ensure that all materials passing
5. through 375mm x 450mm slotted openings shall be used in the production of the crushed aggregates.
6. Pit excavations must not take place to within a minimum distance of 2m from the edge of clearing & stripped areas. When the contractor discontinues operations in the pit, all working pit faces and stockpiles must be trimmed to 1.5H to 1V slope. Working pit faces must be reshaped with native granular materials. All other permanent slopes must be re-sloped to no steeper than 2H:1V.
7. No dumping of debris or petroleum products is permitted. The pit must be left in a clean and safe condition.



Ministry of Transportation and Infrastructure  
 Southern Interior Region  
 Geotechnical and Materials Branch

### PIT DEVELOPMENT PLAN

## YARD CREEK LOOP PIT #0417

SA13 - OKANAGAN-SHUSWAP DISTRICT

DRAWN BY: S. Ruiz	PROJECTION: UTM Zone 11	SCALE: AS SHOWN
CHECKED BY: S. Lee	DATUM: NAD83	DATE: 9 August 2023
FILE NAME: yardcreekloop_0417_devplan_2024-05-14.dwg	REG. 2	DRAWING NUMBER: FIGURE 3

## **Test Pit Summaries**

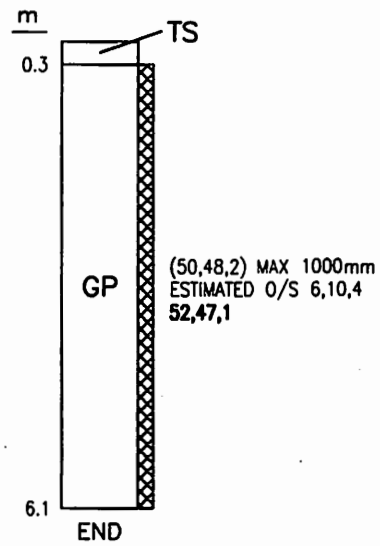




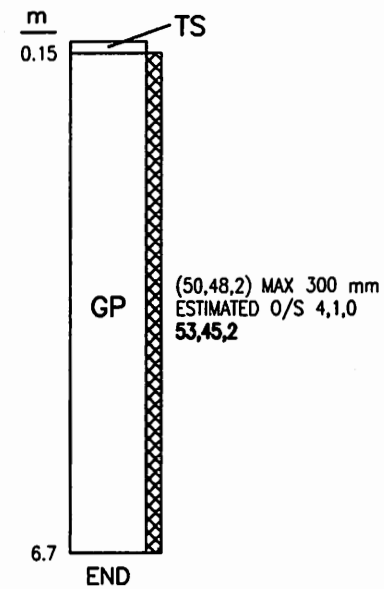
**APPENDIX B**

**1986 Test Pit and 1982 Test Hole Logs**

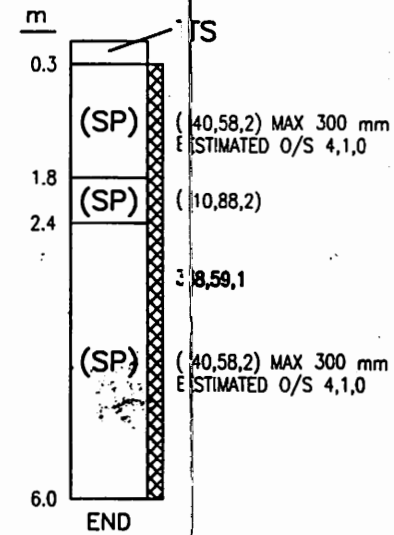
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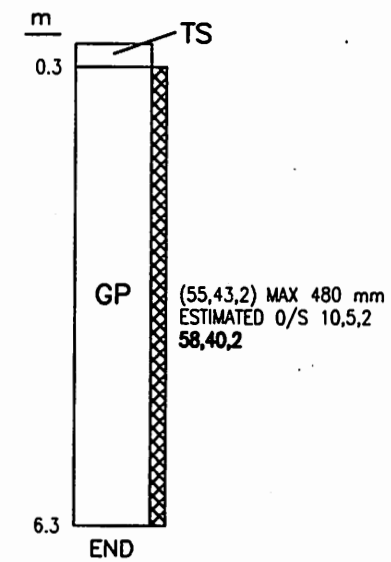
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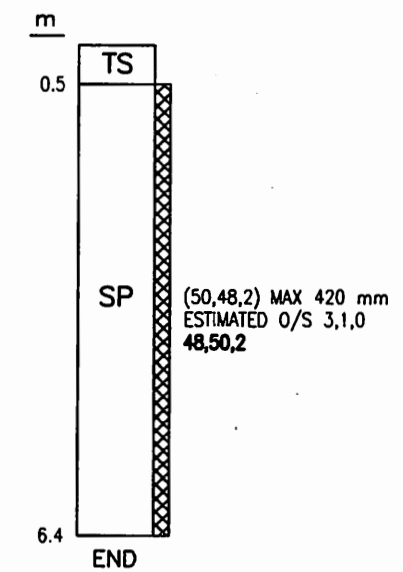
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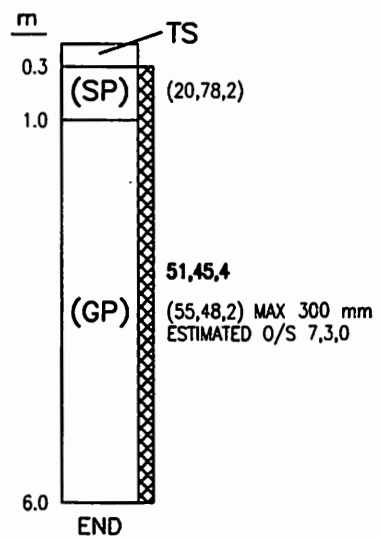
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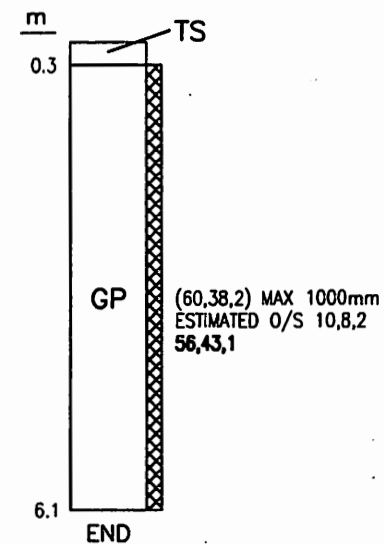
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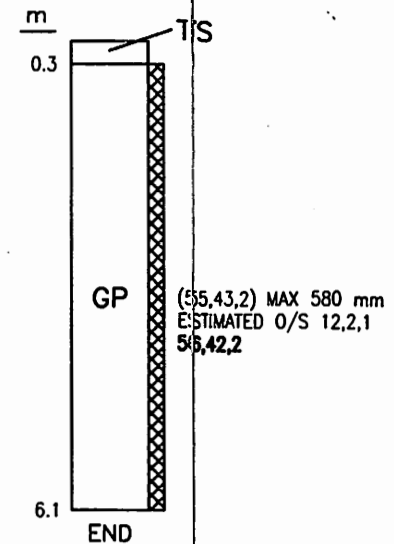
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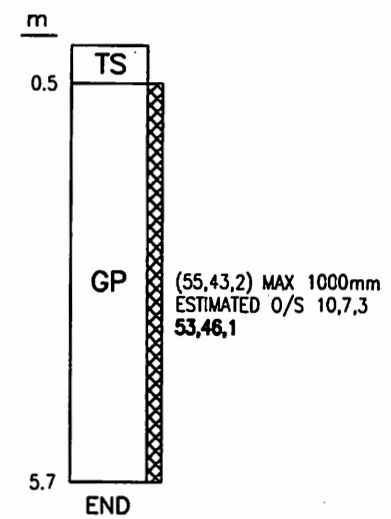
TP 86-7



TP 86-8



TP 86-9



KEY

- INFORMATION IN BRACKETS INDICATE FIELD ESTIMATES
- ESTIMATED OVERSIZE (O/S) IS SEPARATED INTO THREE CATEGORIES:  
75-150mm, 150-375mm, >375mm
- LABORATORY SIEVE ANALYSIS: 50,48,2
- ▨ SAMPLED SOIL ZONE gravel sand fines
- DEPTH IN METERS



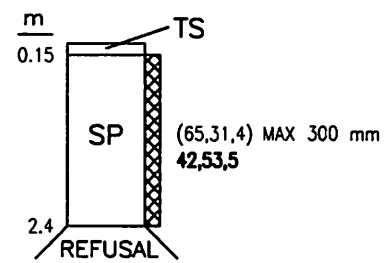
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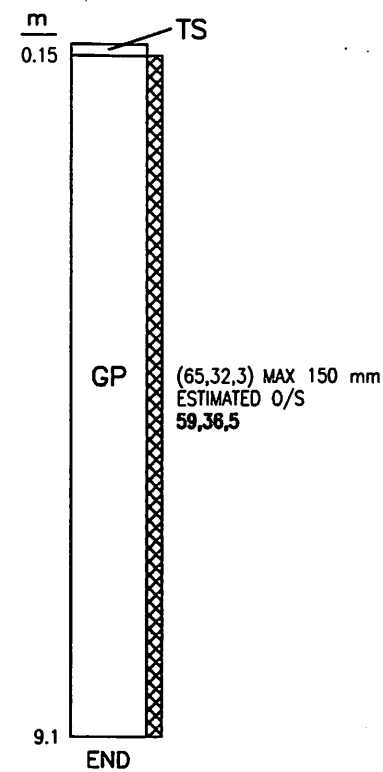
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YARD CREEK LOOP PIT #0417  
1986 TEST PIT LOGS  
FILE NO. 50-13-0417

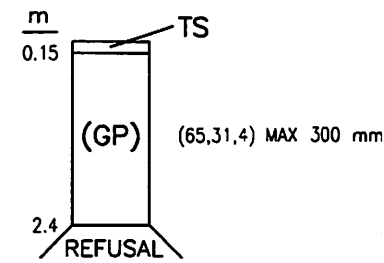
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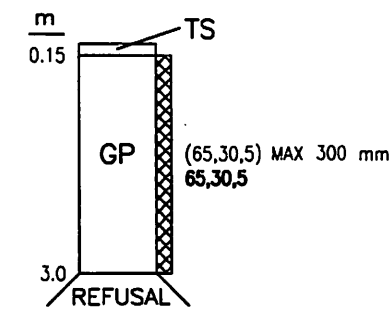
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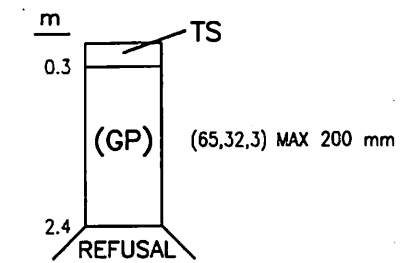
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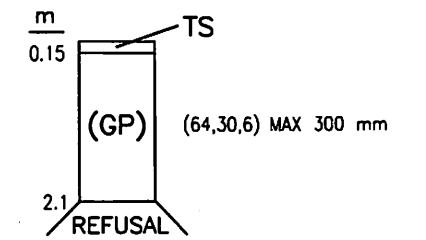
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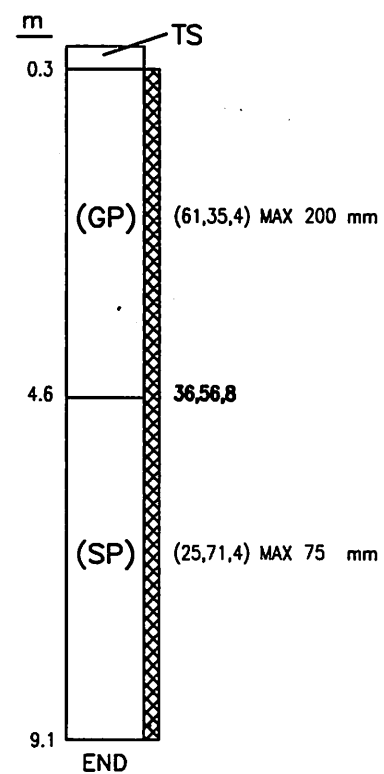
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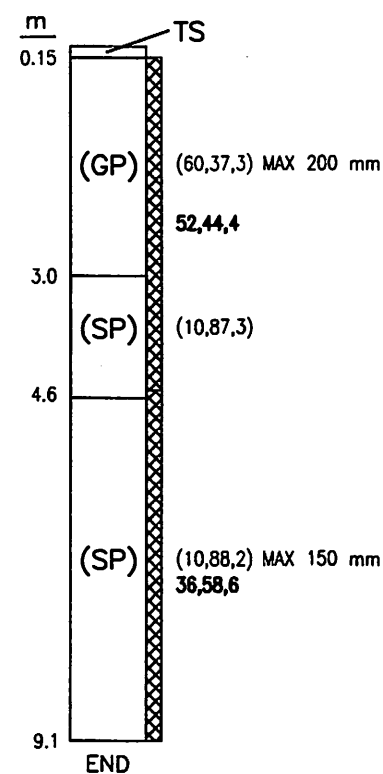
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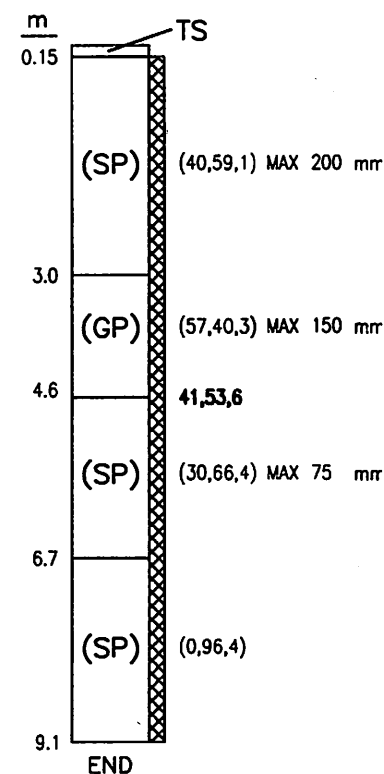
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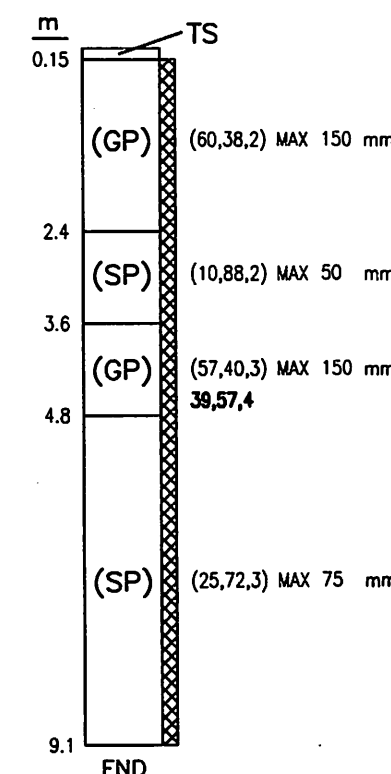
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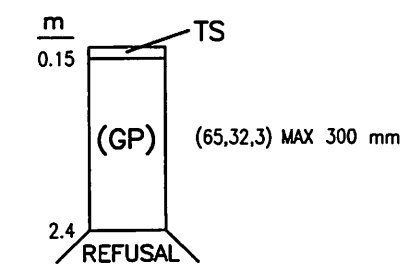
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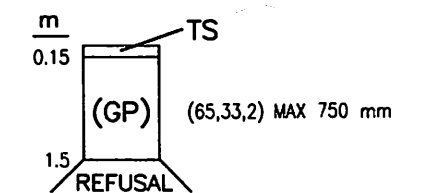
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TH 82-11



TH 82-12



KEY

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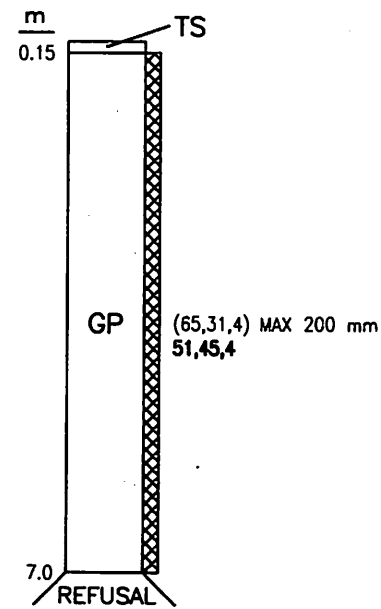
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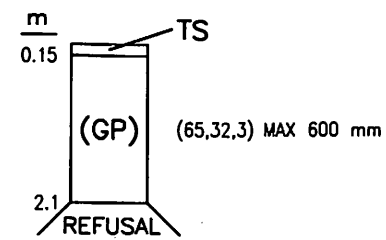
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YARD CREEK LOOP PIT #0417  
1982 TEST HOLE LOGS  
FILE NO. 50-13-0417

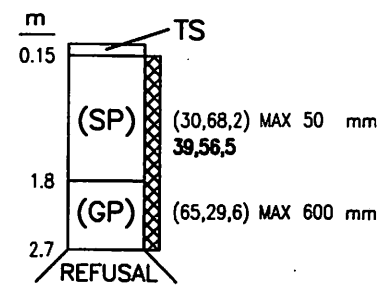
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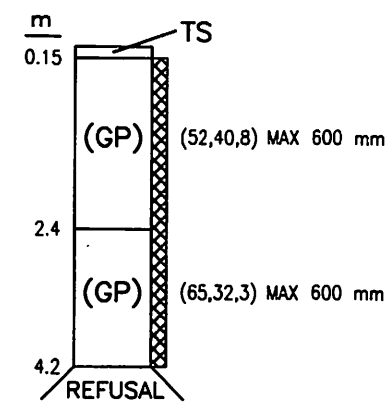
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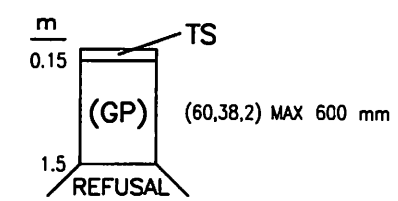
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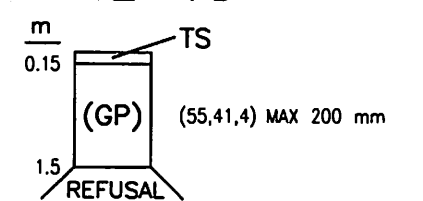
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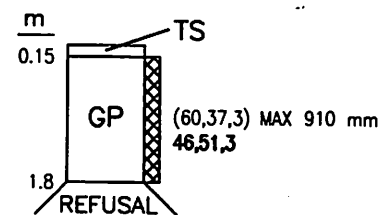
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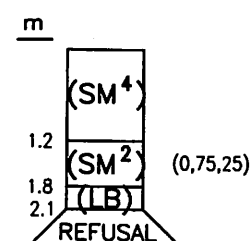
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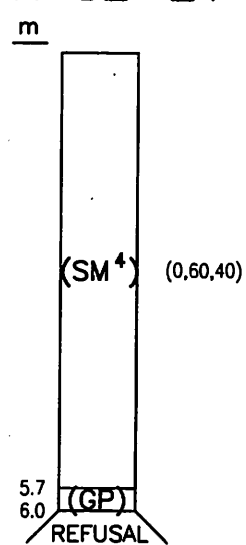
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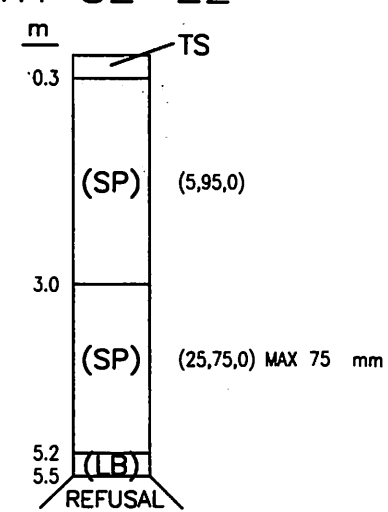
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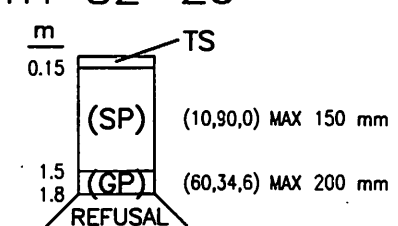
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TH 82-22



TH 82-23



KEY

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- ▨ SAMPLED SOIL ZONE gravel sand fines
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REVISIONS		
Date	Description	Initial

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APPROVED BY:	

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DATE: JUNE 00  
AutoCAD: F60417

YARD CREEK LOOP PIT #0417  
1982 TEST HOLE LOGS  
FILE NO. 50-13-0417



# AGGREGATE LOG

PROJECT : Yard Creek Loop Project Pit  
 PIT NO. : 2291  
 DISTRICT : Salmon Arm

SAMPLED BY : B.J./B.L.  
 METHOD : Backhoe  
 DATE : Jan 7/86

TH. or TP #	DEPTH		SAMPLE BAG NO.	CLASSIFICATION	ESTIMATED GRADATION			ESTIMATED ROCK > 75mm					SAND TYPE			REMARKS
	FROM	TO			GRAVEL	SAND	FINES	MAX SIZE	75mm (3") to 150mm (6")	150mm (6") to 375mm (15")	> 375mm (15")	F - FINE	M - MEDIUM	C - COARSE		
86-1	0	.3		TS	<del>52.8</del>											Mainly Sand & boulders
	.3	6.1	P1267	GP	51.9	46.7	1.4	104cm	6	10	4				✓	Subrounded rock
86-2	0	.15		TS												
	.15	6.7	MOH 1595	GP	53.3	44.6	2.1	30cm	4	1	-				✓	
86-3	0	.3		TS												
	.3	1.8	D-2053	SP	37.9	59.5	2.6	30cm	4	1	-				✓	
	1.8	2.4		SP	10	58	2	-	-	-	-				✓	
	2.4	6.0		SP	40	58	2	30cm	4	1	-				✓	
86-4	0	.3		TS												
	.3	6.3	D2052	GP	58.2	39.4	2.4	48cm	10	5	2				✓✓	
86-5	0	.5		TS												
	.5	6.4	C463	GP	47.6	50.2	2.2	42cm	3	1	-				✓✓	
86-6	0	.3		TS												
	.3	1.0	C2900	SP	20	78	2	-	-	-	-				✓	
	1.0	6.0		GP	51.4	44.6	3.5	30cm	7	3	-				✓	
86-7	0	.3		TS												
	.3	6.1	MOH 7837	GP	56.1	42.8	1.1	101cm	10	8	2				✓✓	large boulders.
86-8	0	.3		TS												
	.3	6.1	C 221	GP	55.9	41.8	2.3	58cm	12	2	1				✓✓	
86-9	0	.5		TS												
	.5	5.7	MOH 5049	GP	53.1	45.5	1.4	104cm	10	7	3				✓✓	



PROVINCE OF BRITISH COLUMBIA  
DEPARTMENT OF HIGHWAYS  
TESTING BRANCH

Project No: Yard - ex - Pit  
Location: SILAMOUS  
Date Sampled: SEPT. 21/82  
Sampled by: R. D...

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS
From	To		
PIT #2			
T.H # 82-1			
0	1/2'		M.L. over Burden
1/2'	8'	B-930	G.P. L.B. SILT - 4% 5 SAND - 31% 53 Fine GRAVEL - 65% 42 # 4 - To 12" AND LARGER. over 3" - To 12" = 15% Very LARGE BOULDERS Too DENSE TO AUGER PAST.
T.H # 82-2 PIT #2			
0	1/2'		M.L. over Burden
1/2'	30'	D7351	G.P. L.B. SILT - 3% 5 SAND - 32% 36 Fine MED. GRAVEL - 65% 59 # 4 - To 6" over 3" - To 6" = 10%
T.H # 82-3 PIT #2			
0	1/2'		M.L. over Burden
1/2'	8'	M/L	G.P. L.B. SILT - 4% SAND - 31% Fine GRAVEL - 65% # 4 - To 12" AND LARGER DENSE PAST 8' Moved 10' Augered SAME DEPTH.

PROVINCE OF BRITISH COLUMBIA  
DEPARTMENT OF HIGHWAYS  
TESTING BRANCH

Project No: YARD CR. PIT  
Location: SICAMOUS  
Date Sampled: SEPT. 21 1982  
Sampled by: R. Deion

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS
From	To		
			PIT #2
			T.H # 82-4
0	1/2'		M.L. Over Burden
1/2'	10'	A10769	G.P. L.B. SILT - 5% 5 SAND - 30% 30 Fine GRAVEL - 65% 65 # 4 - To 12" Over 3" - To 12" = 15% Very HARD TO Auger
			T.H # 82-5 PIT #2
0	1'		M.L. Over Burden
1'	8'	Nil	G.P. L.B. SILT - 3% SAND - 32% Fine GRAVEL - 65% # 4 - To 8" Very HARD Augering Too DENSE PAST 8"
			T.H # 82-6 PIT #2
0	1/2'		M.L. Over Burden
1/2'	7'	Nil	G.P. L.B. SILT - 6% SAND - 30% Fine GRAVEL - 64% # 4 - To 12" HIT LARGE BOULDERS ALTHOUGH DENSE PAST 7' MOVED TRYED UNABLE TO GET DOWN



PROVINCE OF BRITISH COLUMBIA  
 DEPARTMENT OF HIGHWAYS  
 TESTING BRANCH

Project No: YARD - PIT  
 Location: SILAMOUS  
 Date Sampled: SEPT 22 1982  
 Sampled by: R. Denson

LOG OF SOIL TEST HOLES

B 457

Depth (Feet)		Sample No.	REMARKS
From	To		
			T.H#82-7 <u>PIT #2</u>
0	1'		M.L. over Boulder
1'	15'		G.P. L.B. (HARD Augering) SILT - 4%.
	1'-30'	B 457	SAND - 35% Fine GRAVEL - 61% # 4 - To 8"
			1'-30' 36
15'	30'		S.P. 56 8 SILT - 4% SAND - 71% Fine GRAVEL 25% # 4 - To - 3"

PROVINCE OF BRITISH COLUMBIA  
DEPARTMENT OF HIGHWAYS  
TESTING BRANCH

Project No: YARD CR PIT  
Location: SICAMOUS  
Date Sampled: SEPT. 22/82  
Sampled by: R. Dixon

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS	
From	To			
0	1/2'		T.H # 82-8 <u>PIT #2</u> over Boulder	
1/2'	10'		G.P. L.B.	
			SILT - 3% 4	
			SAND - 37% 44	Fine MED.
	1/2'-15'	B936	GRAVEL - 60% 52	# 4 - To 8"
10'	15'		S.P.	
			SILT - 3%	
			SAND - 87%	Fine MED.
			GRAVEL - 10%	
15'	30'	P1448	S.P. WITH S.B.	
			SILT - 2% 6	
			SAND - 88% 58	Fine
			GRAVEL - 10% 36	# 4 - To - 3" ODD 6"



PROVINCE OF BRITISH COLUMBIA  
 DEPARTMENT OF HIGHWAYS  
 TESTING DIVISION

Project No: YARD CR. PIT  
 Location: SILAMOUS  
 Date Sampled: SEPT. 22/82  
 Sampled by: R. Brown

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS
From	To		
0	1/2'		T.H# 82-9 PIT #2 M.L. over Boulder
1/2'	10'		S.P. SILT - 1%
			SAND - 59% Fine - coarse
	1/2' - 30'	P1443	GRAVEL - 40% #4 - To .3" odd 8"
10'	15'		G.P. 1/2-30' 41 SILT - 3% 53 SAND - 40% 6 Fine GRAVEL - 57% #4 - To .3" odd 6"
15'	22'		S.P. SILT - 4% SAND - 68% Fine GRAVEL - 30% #4 - To .3"
22'	30'		S.P. SILT - 4% SAND - 96% Very Fine



PROVINCE OF BRITISH COLUMBIA  
DEPARTMENT OF HIGHWAYS  
TESTING BRANCH

Project No: YARD - CL - P11  
Location: SICAMOUS  
Date Sampled: SEPT. 22/82  
Sampled by: R. Renon

LOG OF SOIL TEST HOLES

A6854

Depth (Feet)		Sample No.	REMARKS
From	To		
0	1/2'		T.H # 82.10- Pit # 2 M.L. over Burden
1/2'	8'		G.P. L.B. SILT - 2% SAND - 38% Fine coarse GRAVEL - 60% # 4 - To 6"
8'	12'		S.P. 1/2-30' 39 G SILT - 2% 57 S
1/2'	30'	A 6854	SAND - 88% 4 F GRAVEL - 10% # 4 - To 2"
12'	16'		G.P. SILT - 3% SAND - 40% Fine GRAVEL - 57% # 4 - To 6"
16'	30'		S.P. WITH G.P. LAYERS SILT - 3% SAND - 72% Fine GRAVEL - 25% # 4 - To 3"



PROVINCE OF BRITISH COLUMBIA  
 DEPARTMENT OF HIGHWAYS  
 TESTING DIVISION

Project No: YARD CR PIT  
 Location: SICAMOUS  
 Date Sampled: SEPT. 22/82  
 Sampled by: R. Dumas

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS
From	To		
			Pit # 2
			T.H# 82-11
0	1/2'		M.L. over Boulder
1/2'	8'	Nil	G.P. L.B. SILT - 3%. SAND - 32%. Fine GRAVEL - 65% #4 - to 12" LARGE BOULDERS over 3" = 15%.
			<del>—————</del>
			T.H# 82-12 Pit # 2
0	1/2'		M.L. over Boulder
1/2'	5'		G.P. L.B. SILT - 2%. SAND - 33%. Fine MED GRAVEL - 65% #4 - to 9 1/2" Foot BOULDERS over 6" = 20%. DENSE BOULDERS



PROVINCE OF BRITISH COLUMBIA  
 DEPARTMENT OF HIGHWAYS  
 TESTING DIVISION

Project No: YARD CR PIT  
 Location: SICAMOUS  
 Date Sampled: SEPT. 22/82  
 Sampled by: R. Dawson

LOG OF SOIL TEST HOLES

A10722

Depth (Feet)		Sample No.	REMARKS
From	To		
			PIT #2
			T.H# 82-13
0	1/2'		M.L. over Burden
1/2'	23'	A10722	G.P. L.B.
			SILT - 4%. 4
			SAND - 31%. 45 Fine MED.
			GRAVEL - 65%. 51 # 4 - To .6" spp 8"
			BOULDER over 3" = 10%
			HIT L.B. TOO DENSE PAST 23'
			T.H# 82-14 PIT #2
0	1/2'		M.L. over Burden
1/2'	7'		G.P. L.B.
			SILT - 3%
			SAND - 32%. Fine MED.
			GRAVEL - 65% # 4 - To .2" Foot
			DENSE AT 5'



PROVINCE OF BRITISH COLUMBIA  
 DEPARTMENT OF HIGHWAYS  
 TESTING DIVISION

Project No: YARD CR. P11  
 Location: SILAMOU  
 Date Sampled: SEPT. 22/82  
 Sampled by: K. Brown

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS
From	To		
T.H# 82-15 Pit #2			
0	1/2'		M.L. over Burden
1/2'	6'		S.P. SILT - 2%
1/2-9'		A10765	SAND - 68% Fine coarse GRAVEL - 30% #4 - To 2"
6'	9'		G.P. L.B. 56% SILT - 6% 5% SAND - 29% Fine GRAVEL - 65% #4 - To - 24" LOTS of LARGE Boulders HARD PACKED DENSE AT 9'
T.H# 82-16 Pit #2			
0	1/2'		M.L. over Burden
1/2'	8'		G.P. L.B. SILT - 8% SAND - 40% Fine GRAVEL - 52% #4 - To - 24"
8'	14'		G.P. L.B. HARD TO Auger SILT - 3% SAND - 32% Fine med. GRAVEL - 65 #4 - To - 24" Lot of L.B's DENSE PAST 14'

PROVINCE OF BRITISH COLUMBIA  
DEPARTMENT OF HIGHWAYS  
TESTING BRANCH

Project No: YARD CR P11  
Location: SICAMOUS  
Date Sampled: SEPT 22/82  
Sampled by: K. Dixon

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS
From	To		
0	1/2'	Nil	T.H# 82-17 Pit #2 M.L. over Burden
1/2'	5'		G.P. L.B. SILT - 2% SAND - 38% Fine coarse GRAVEL - 60% # 4 - TO - 24" TOO DENSE TO AUGER
0	1/2'		T.H# 82-18 Pit #2 M.L. over Burden
1/2'	5'		G.P. L.B. SILT - 4% SAND - 41% Fine coarse GRAVEL - 55% # 4 - TO - 8" DENSE PAST 5' L.B.





PROVINCE OF BRITISH COLUMBIA  
 DEPARTMENT OF HIGHWAYS  
 TESTING BRANCH

Project No: YARR. CL. PIT.  
 Location: SILANOUS  
 Date Sampled: SEPT. 23/88  
 Sampled by: R. Denny

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS
From	To		
			T.H# 82-20 <span style="float: right;">PIT #2</span>
0	4'		S.M. 4 Over Run
4'	6'	NID	S.M. 2 SILT - 25 % SAND 75 % very fine
6'	7'		L.B. TOO DENSE TO AUGER
			T.H# 82-21 <span style="float: right;">PIT #2</span>
0	19'	NID	S.M. 4 SILT - 40 SAND - 60 very fine
19'	20'		G.P. L.B.



PROVINCE OF BRITISH COLUMBIA  
DEPARTMENT OF HIGHWAYS  
TESTING BRANCH

Project No: YARD CR PIT  
Location: SICAMOUS  
Date Sampled: SEPT. 23/82  
Sampled by: R. D. [unclear]

LOG OF SOIL TEST HOLES

Depth (Feet)		Sample No.	REMARKS	
From	To			
				PIT # 2
			T.H# 82-22	
0	1'		M.L.	over Boulder
1'	10'		S.P.	
			SAND - 95%	Fine
			GRAVEL - 5%	
10'	17'	NK	S.P. S.B.	
			SAND 75%	
			GRAVEL - 25%	1" - To 3"
17'	18'		L.B.	DENSE TO Auger
				T.H# 82-23 PIT # 2
0	1/2'		M.L.	over Boulder
1/2'	5'	NK	S.P. S.B.	
			SAND - 90	Fine MED.
			GRAVEL - 10	# 4 - To 6"
5'	6'		G.P. L.B.	HARD PACKED.
			SILT - 6%	
			SAND - 34%	Fine
			GRAVEL - 60%	# 4 - To 8" AND OVER
			Too DENSE	PAST 6'

2013

TH / TP	DEPTH		SAMPLE BAG No.	SOILS CLASS	ESTIMATED GRADUATION			ESTIMATED ROCK 75mm				SAND TYPE			REMARKS
	FROM	TO			G	S	F	MAX SIZE	75mm- 150mm	150mm- 375mm	>375mm	F	M	C	
															Lab Test Result
TP 13-01	0	1.5	323	GP	52	46	2	850	10	10	20			C	
	1.5	6.0		GP	52	46	2	250	5	5	0			C	
				GP	50.7	48.2	1.1								
TP 13-02	0	6	381	GP	57	42	1	750	15	10	5			C	Sluffing in
				GP	54.9	43.8	1.3								
TP 13-03	0	6	411	GP	56	42	2	300	10	2	0			C	
				GP	52.0	45.5	2.5								
TP 13-04	0	6	412	GP	57	42	1	450	10	2	1			C	
				GP	55.5	42.5	2.0								
TP 13-05	0	6	413	GP	53	45	2	1200	10	10	5			FM	
				GP	50.8	47.1	2.1								
TP 13-06	0	6	414	GP	53	45	2	650	10	10	5			C	
				GP	49.2	48.8	2.0								
TP 13-07	0	6		SP	43	55	2	300	<1	<1	0			MC	
				SP	42.9	54.7	2.4								

2018

AGGREGATE LOG													
PROJECT:		Yard Creek Loop Pit				SAMPLED BY:		Samantha Kinniburgh					
PIT #:		0417				METHOD:		Excavator					
DISTRICT:		Okanagan Shuswap				DATE:		July 25 2018					
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		
18-01	0	1		GP	50	47	3						Pit floor in front of face, top 1m bony, sandy below that with sloughing at 1.5-2m
	1	5.3	1801	SP	44	55	1	530	5	2	1	M	
				SP	38.8	60.5	0.7						
18-02	0	0.3		OB/Soil									NW end of asphalt stockpile, coarse sand, some OS
	0.3	5.3	1802	SP	45	52	3	540	4	2	1	M-C	
				GP	50.4	48.1	1.5						
18-03	0	0.3		OB/Soil									Test hole done on the slope, near SE end of FSR. Sandy, coarse, less OS Sloughing under overburden
	0.3	4	1803	SP	40	59	1	150	3	0	0	M-C	
				SP	40.9	58.4	0.8						
18-04	0	0.4		OB/Soil									Very sandy with varying amounts of rock, beach sand and low fines Sloughing at 0.5m
	0.4	1.5		SP	33	65	2						
	1.5	2.7		SP	13	85	2						
	2.7	4.7	1804	SP	33	65	2	160	3	1	0	M	
				SP	36	62.1	1.9						
18-05	0	0.4		OB/Soil									Sandy with OS, TP on ridge going into slope above developed face
	0.4	4.3	1805	SP	35	63	2	510	5	3	1	M	
				SP	43.1	56.2	0.7						
18-06	0	0.4		OB/Soil									Test hole on south east slope above pit face, sandy with OS
	0.4	5	1806	SP	40	58	2	340	5	2	0	M	
				GP	49.7	49	1.3						
18-07	0	0.3		OB/Soil									Sampled top layers
	0.3	2.5	1807	SP	35	63	2						
	2.5	5.5		SP	40	58	2	600	8	3	1	M	
				SP	37.2	61.7	1.1						
18-08	0	0.3		OB/Soil									Lots of larger OS, sandy and consistent with TP1806 & 1807
	0.3	4.7	1808	SP	40	58	2	570	5	3	2	M	
				SP	40.3	58	1.7						

AGGREGATE LOG													
<b>PROJECT:</b> Yard Creek Loop Pit				<b>SAMPLED BY:</b> Samantha Kinniburgh									
<b>PIT #:</b> 0417				<b>METHOD:</b> Excavator									
<b>DISTRICT:</b> Okanagan Shuswap				<b>DATE:</b> July 25 2018									
TEST PIT NO.	DEPTH		SAMPLE BAG NO.	SOILS CLASS	ESTIMATED GRADATION			ESTIMATED ROCK 75mm				SAND TYPE F M C	REMARKS  Lab Sieve
	FROM	TO			G	S	F	MAX SIZE	75mm - 150mm	150mm - 375mm	>375mm		
18-09	0	0.3	1809	OB/Soil								M	Most OS present yet, large boulders bony
	0.3	5		GP	58	40	2	780	12	8	2		
18-10	0	0.3	1810	OB/Soil								M-C	Sandy with OS and coarse sand
	0.3	5		SP	40	58	2	620	10	5	2		
18-11	0	5	1811	SP	38	60	2	290	5	2	0	M	Southeast pit floor in front of face, sandy with some OS, no real sloughing
				SP	45.3	54.1	0.7						

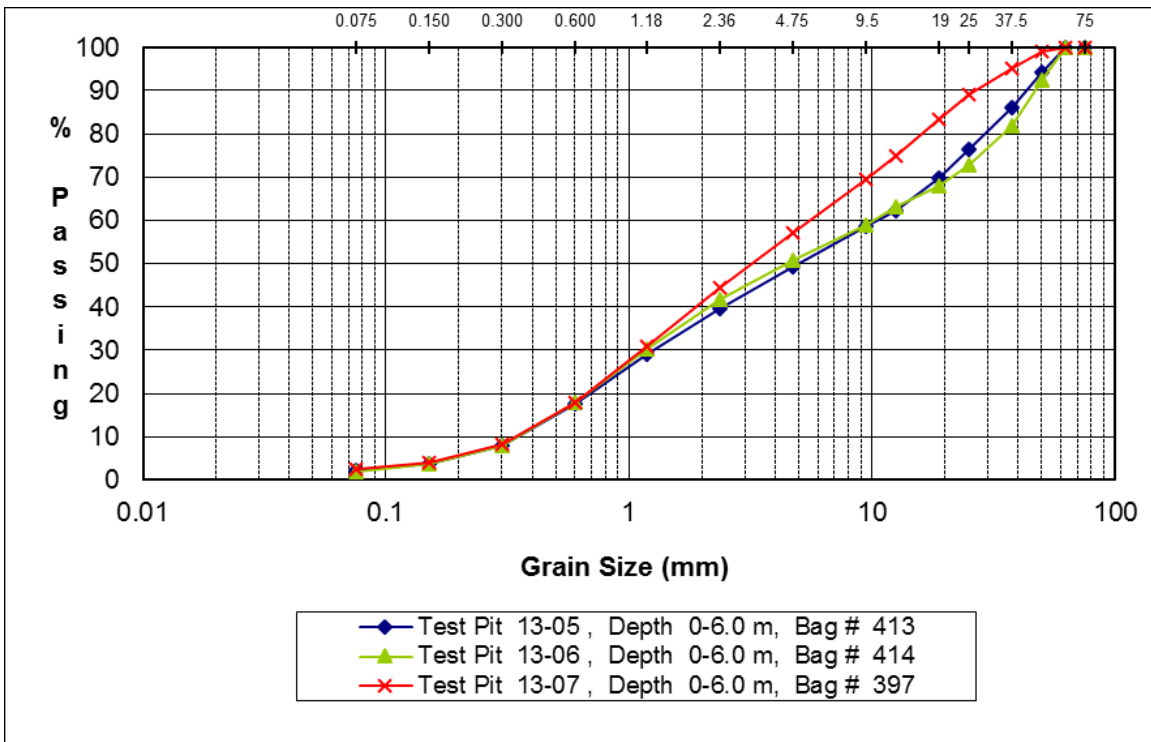
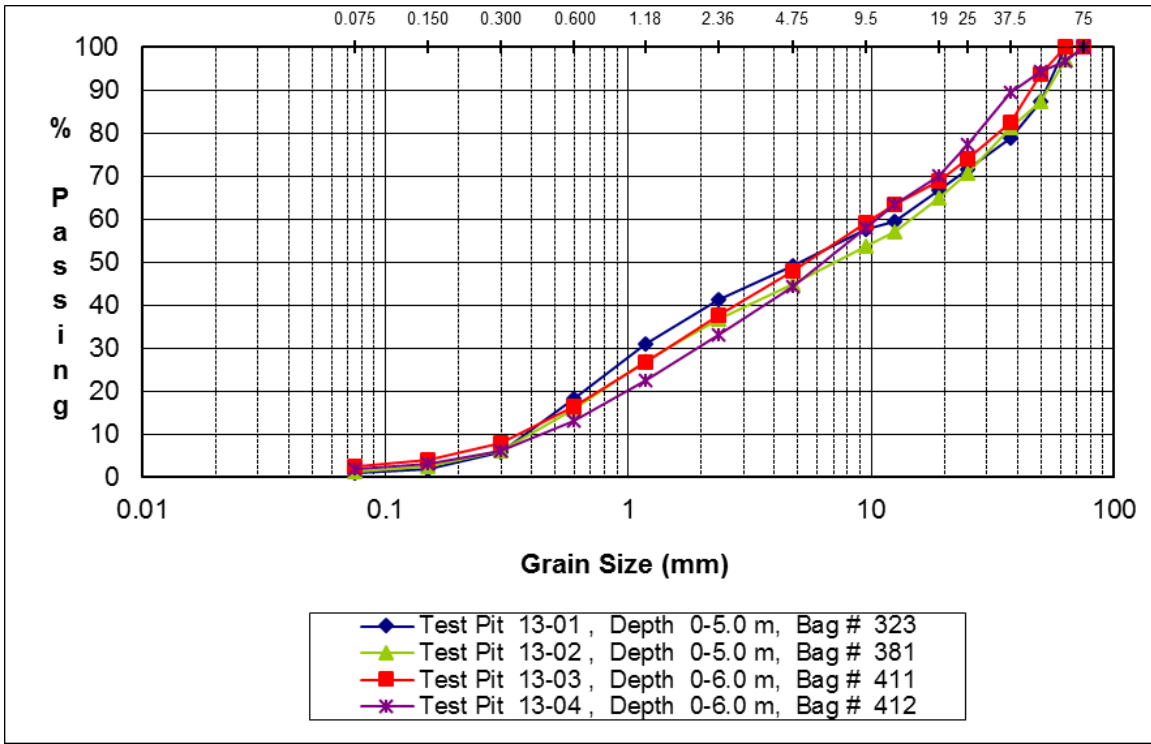
### Wet Sieve Analysis

2018

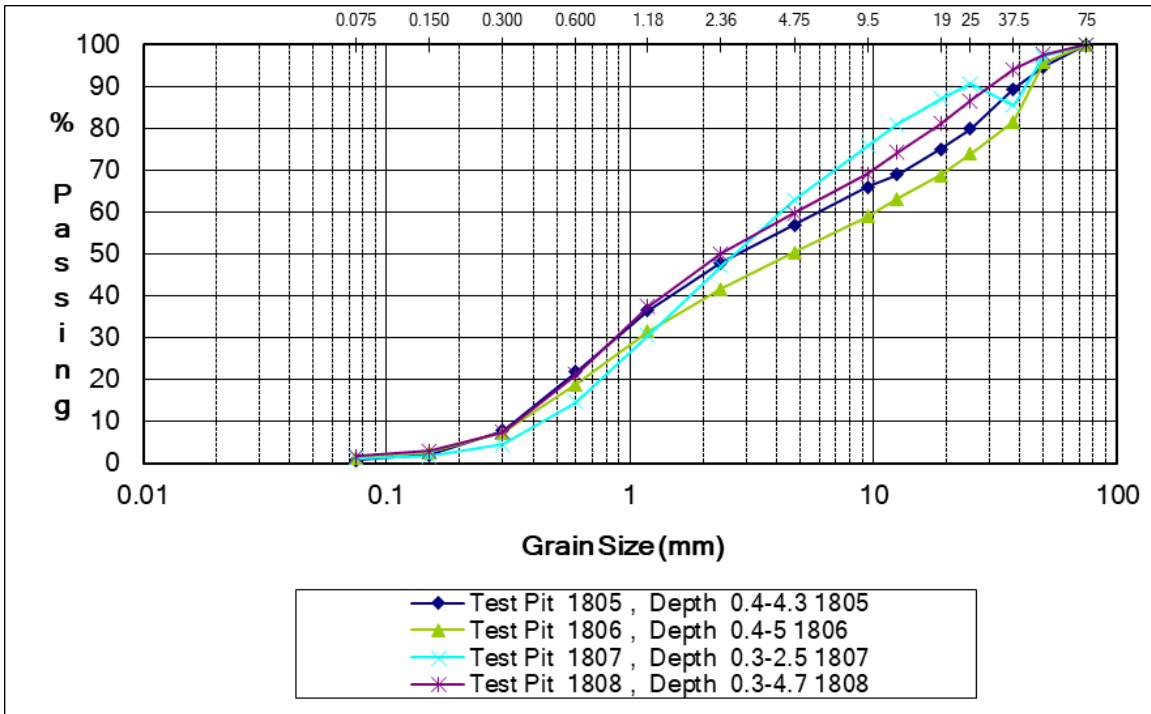
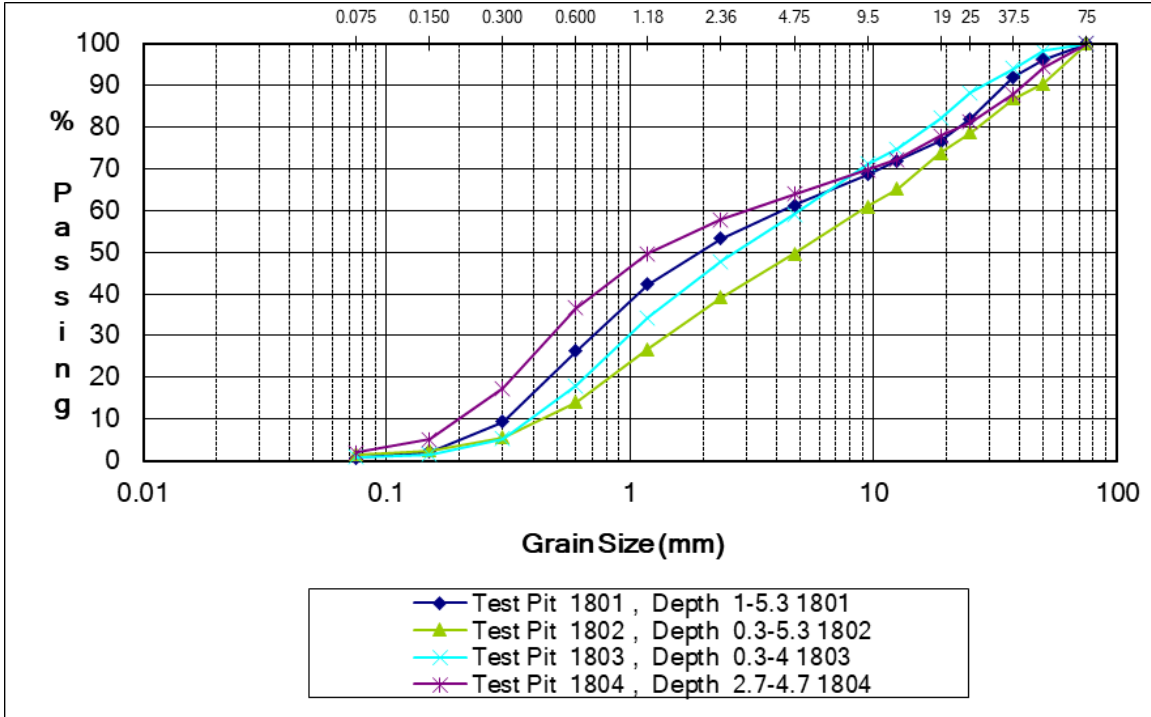
PROJECT REPORT OF SIEVE ANALYSIS SUMMARIES																
PROJECT INFORMATION										PERCENT PASSING						
Project:	86004						Project No.:	86004								
Sample Source:	Yard Creek Loop Pit No. 0417						Client:	MoTI								
Material:	PIT RUN						Date:	2018-08-01								
Sample Information			Percent Passing													
Test Pit	Depth (m)	Bag #	75	50	37.5	25	19	12.5	9.5	4.75	2.36	1.18	0.6	0.3	0.15	0.075
1801	1-5.3	1801	100.0	96.2	92.0	82.0	76.6	72.0	68.7	61.2	53.2	42.2	26.3	9.3	2.1	0.7
1802	0.3-5.3	1802	100.0	90.5	86.9	78.7	73.8	65.1	60.9	49.6	39.1	26.7	14.0	5.5	2.5	1.5
1803	0.3-4	1803	100.0	98.2	94.1	88.2	82.1	74.8	71.1	59.1	47.8	34.2	17.9	5.2	1.5	0.8
1804	2.7-4.7	1804	100.0	94.3	88.0	81.1	77.9	72.2	69.8	64.0	57.8	49.6	36.6	17.3	5.1	1.9
1805	0.4-4.3	1805	100.0	94.7	89.4	79.8	75.0	68.9	65.9	56.9	47.8	36.4	21.8	7.8	1.9	0.7
1806	0.4-5	1806	100.0	95.7	81.6	73.9	68.8	63.1	58.9	50.3	41.6	31.5	18.8	7.3	2.5	1.3
1807	0.3-2.5	1807	100.0	97.2	85.5	90.6	87.1	81.0	75.8	62.8	47.0	30.5	14.6	4.5	1.7	1.1
1808	0.3-4.7	1808	100.0	97.6	94.0	86.6	81.1	74.3	69.0	59.7	50.0	37.4	21.1	7.4	2.9	1.7
1809	0.3-5	1809	100.0	93.7	87.2	73.6	67.2	59.9	54.3	42.2	31.7	22.1	12.9	5.9	3.1	2.1
1810	0.3-5	1810	100.0	90.8	86.9	77.7	72.8	68.2	64.2	55.4	46.3	34.9	20.1	7.6	2.7	1.5
1811	0-5	1811	100.0	95.5	87.6	79.6	74.9	67.5	63.9	54.7	45.9	35.1	20.7	7.0	1.7	0.7

**Aggregate Gradation Charts**

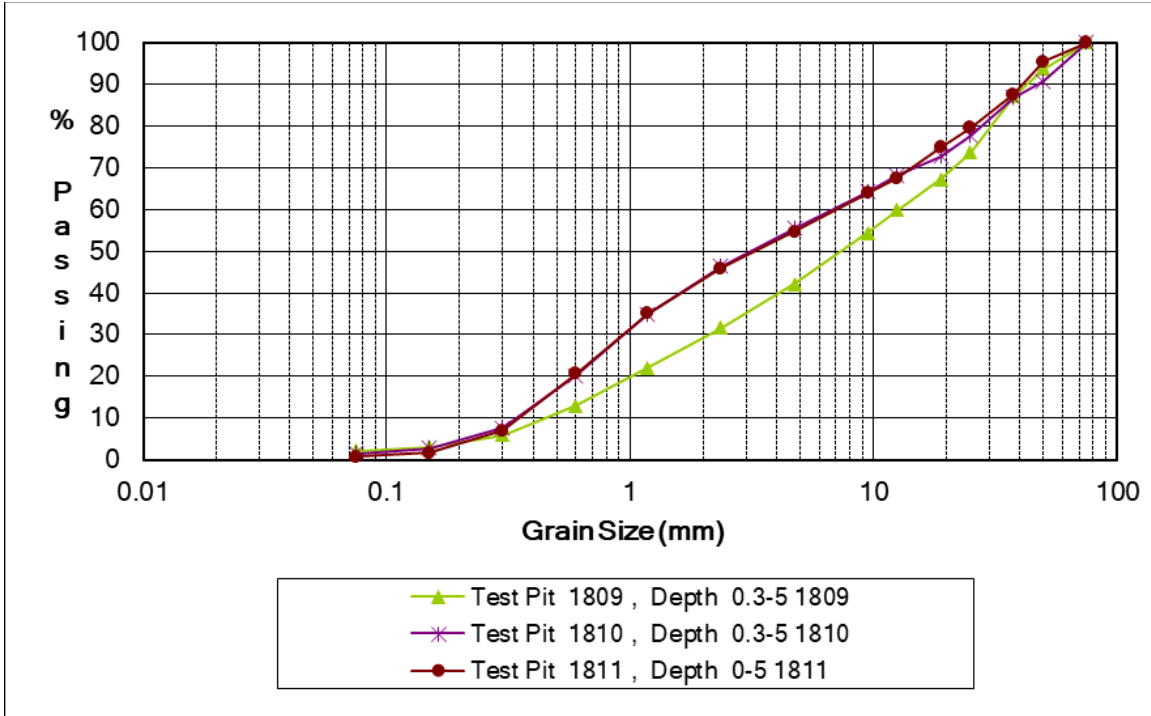
**2013**



2018

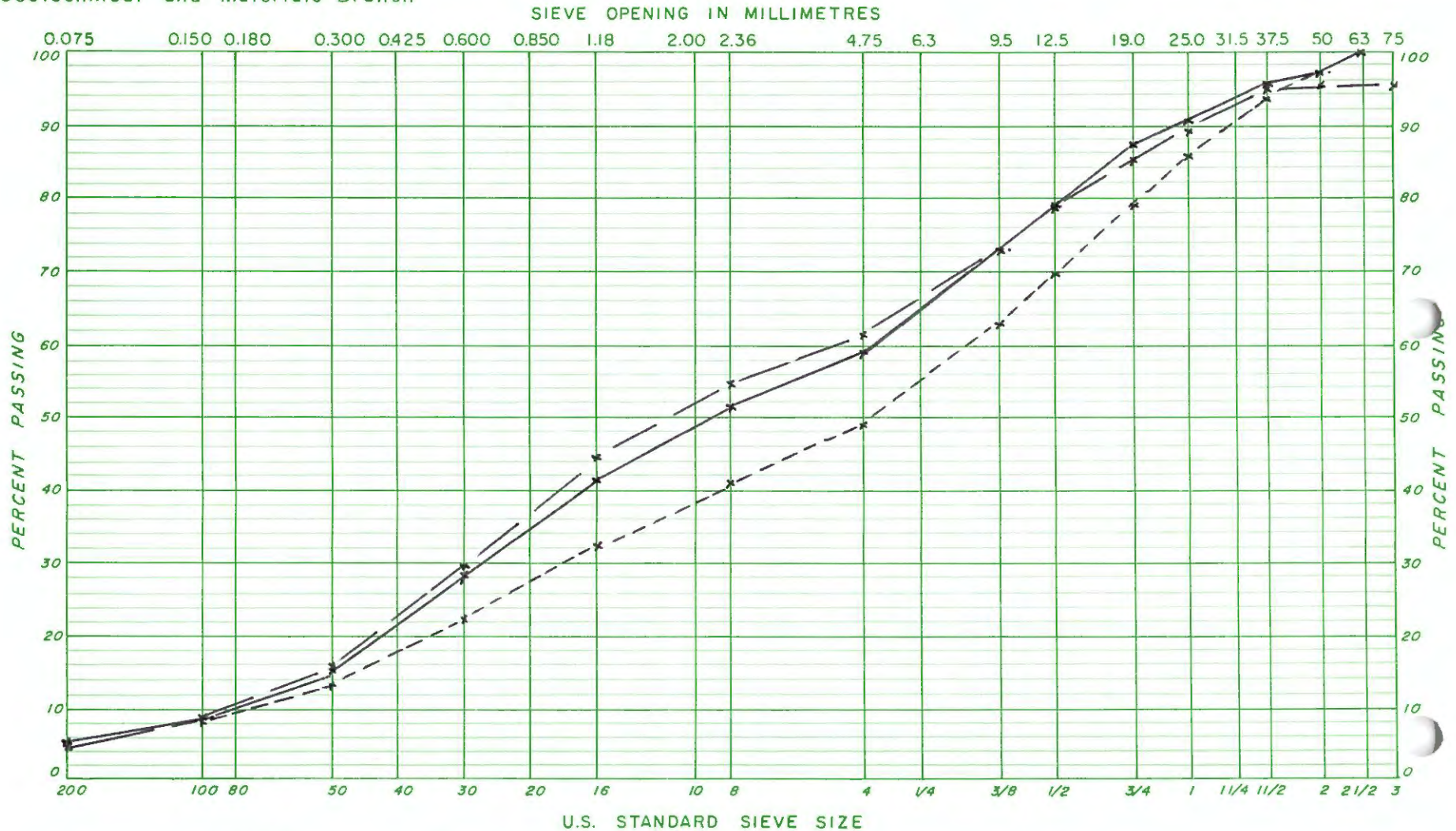








# AGGREGATE CHART



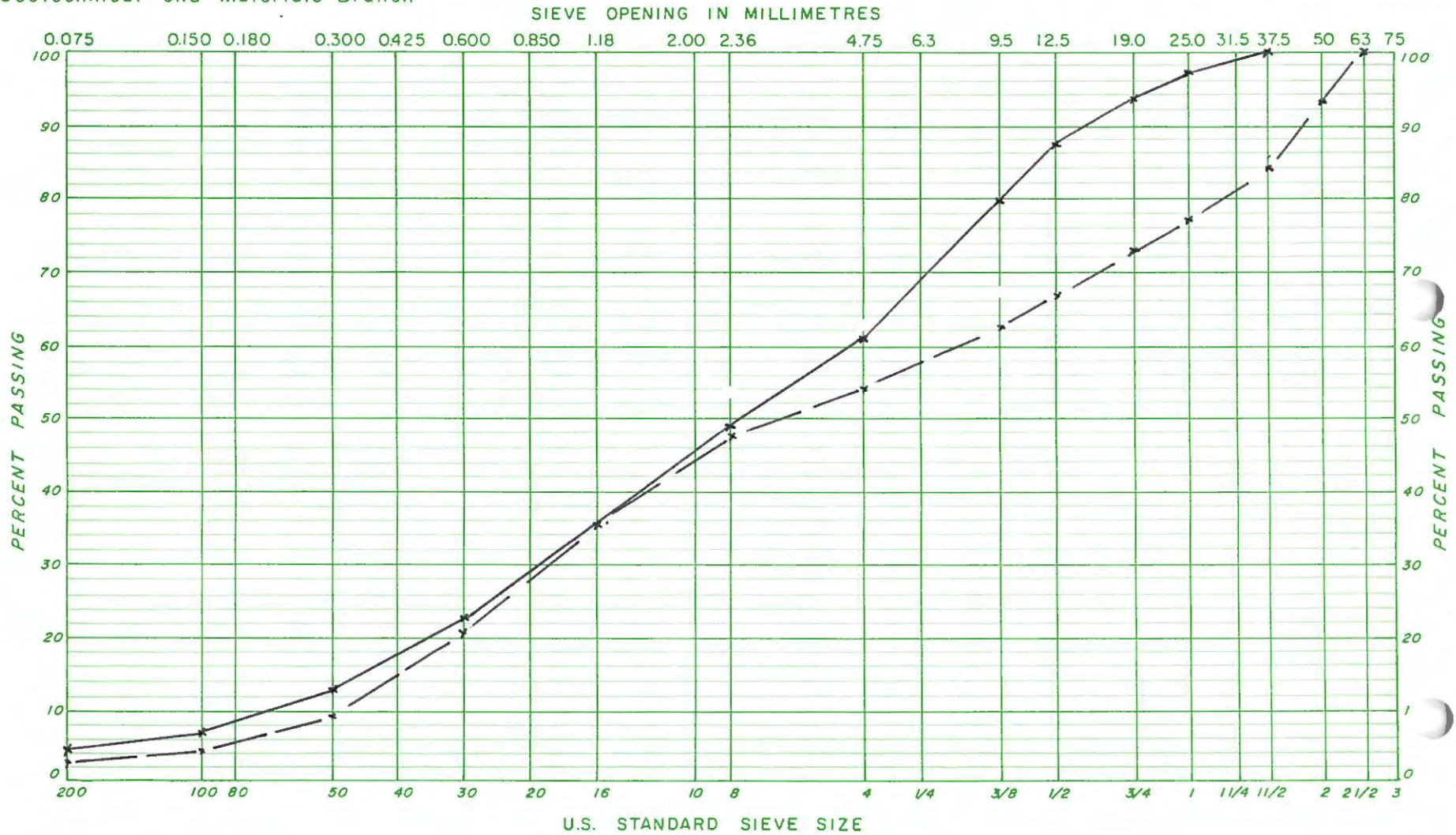
SAMPLE NO.					SAMPLE NO.				
PASSING	RET. ON	MASS	%	TOTAL % PASSING	PASSING	RET. ON	MASS	%	TOTAL % PASSING
500	P 1443			0.15-9.1	TH-9				-----
501	A 6854			0.15-9.1	TH-10				-----
502	A 10722			0.15-7.0	TH-13				-----

IDENTIFICATION	
PROJECT NO.	YARD CR LOOP PIT
SECTION	# 2291
LOCATION	
STATION PLACED	
SAMPLE OF	FIT RUN
SAMPLED BY	R. DIXON
SIEVE ANALYSIS BY	JWC
DATE	SEP 22/82
DATE	SEP 29/82





# AGGREGATE CHART



SAMPLE NO.					SAMPLE NO.				
PASSING	RET. ON	MASS %	%	TOTAL % PASSING	PASSING	RET. ON	MASS %	%	TOTAL % PASSING
503	A	10	76.5	0.15 - 2.7	TH #15				---
504	P1444			0.15 - 1.8	TH #19				---

} DEG'S 67.9% Less 1.7%  
 65.6% " 1.8%

IDENTIFICATION	
PROJECT NO.	YARD CR. LOOP PIT #2291
SECTION	
LOCATION	
STATION PLACED	
SAMPLE OF	PIT RUN
SAMPLED BY	R. DIXON
DATE	SEP 22/82
SIEVE ANALYSIS BY	JWC
DATE	SEP 29/82



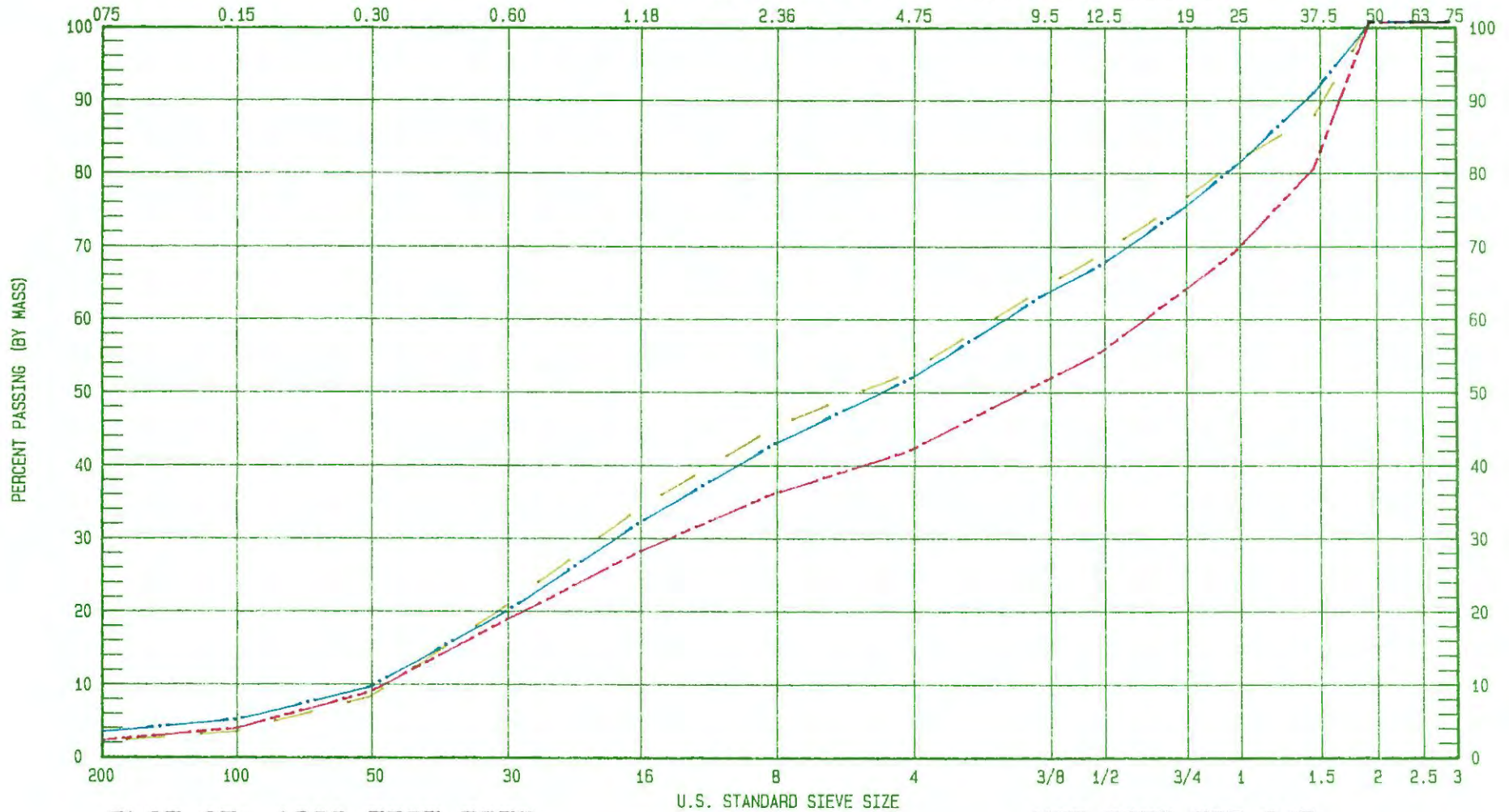
# AGGREGATE GRADATION CHART

REGION: KAMLOOPS

PROJECT: YARD CK LOOP P

DISTRICT: SALMON ARM

SIEVE OPENING (mm) FILE NUMBER: 22910A



**PLOT OF: 1986 TEST PITS**

U.S. STANDARD SIEVE SIZE

NOT CORR FOR O/S

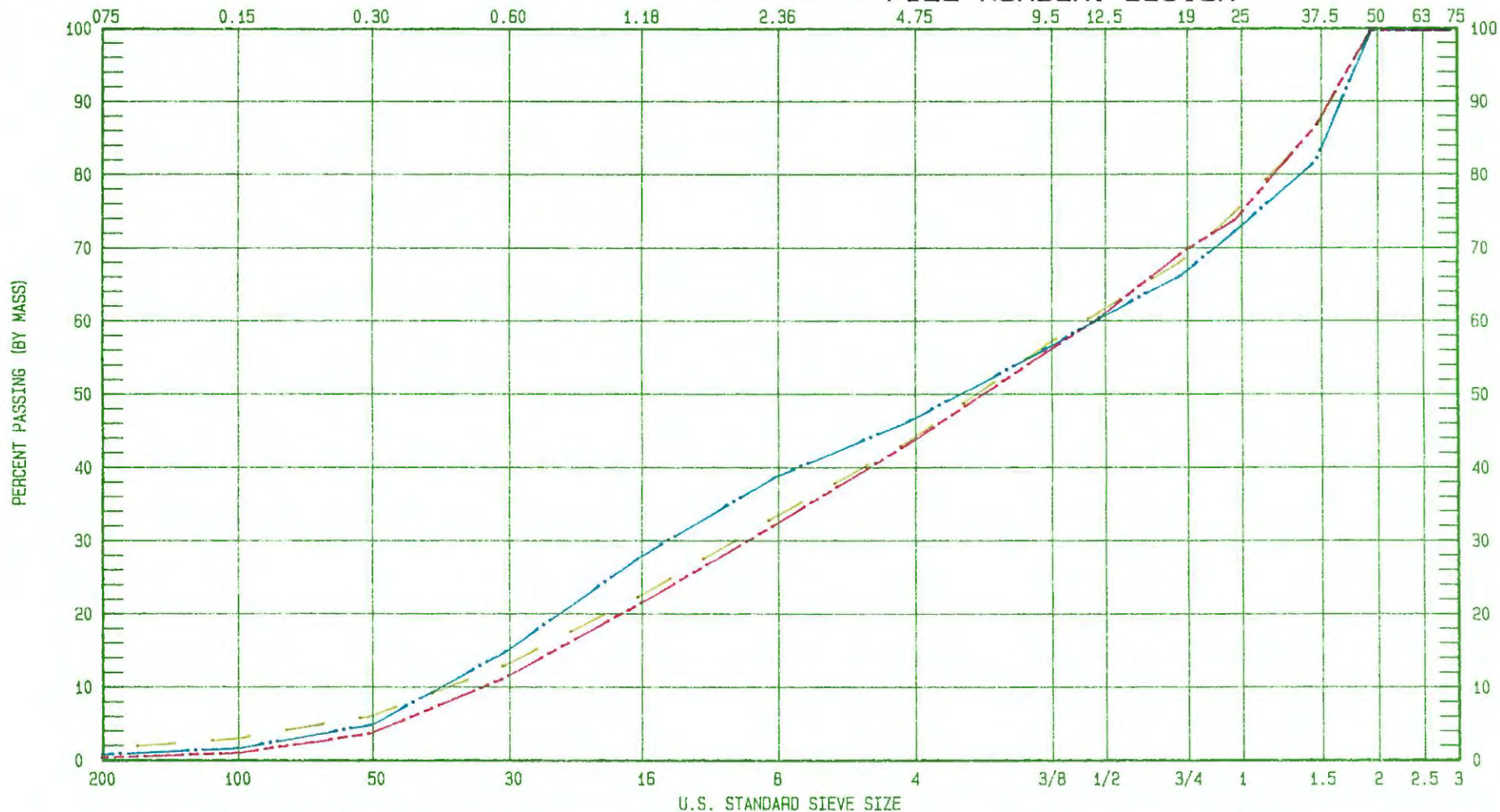
	BAG #	SAMPLE #	TESTHOLE/PIT	DEPTH	SAMPLE OF	SAMPLED BY	METHOD	DATE	TESTED BY	DATE
---	6A049	41	864	0.0 to 6.3	2	BJBL	BH	JAN 7 86	BGH	JAN 20 86
---	6A050	51	865	0.0 to 6.4	2	BJBL	BH	JAN 7 86	BGH	JAN 20 86
---	6A051	61	866	0.3 to 6.0	2	BJBL	BH	JAN 7 86	BGH	JAN 17 86



# AGGREGATE GRADATION CHART

REGION: KAMLOOPS  
 PROJECT: YARD CK LOOP P  
 DISTRICT: SALMON ARM

SIEVE OPENING (mm) FILE NUMBER: 22910A



**PLOT OF: 1986 TEST PITS**

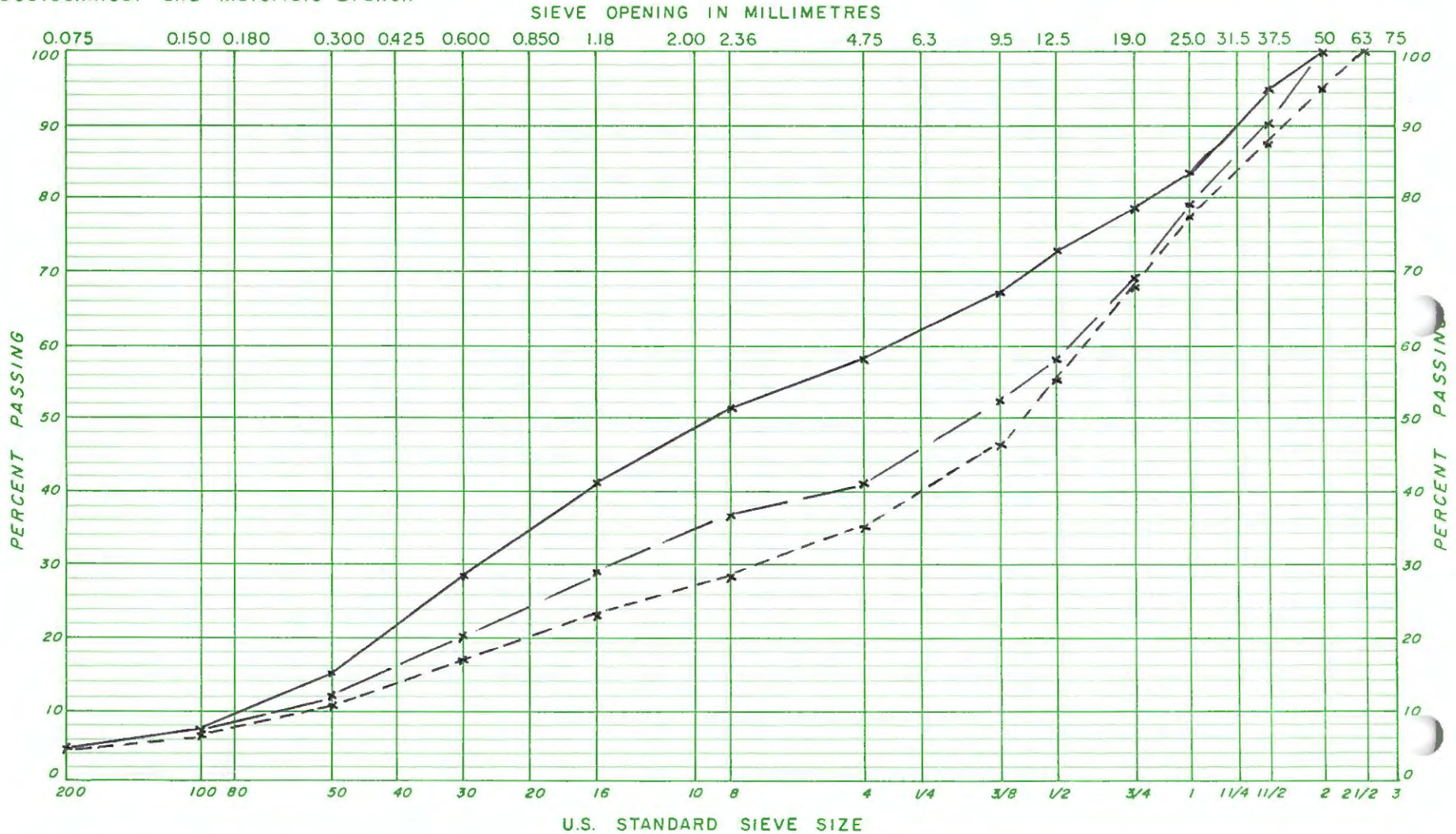
**NOT CORR FOR O/S**

	BAG #	SAMPLE #	TESTHOLE/PIT	DEPTH	SAMPLE OF	SAMPLED BY	METHOD	DATE	TESTED BY	DATE
-----	6A052	71	867	0.3 to 6.1	2	BJBL	BH	JAN 7 86	BGH	JAN 22 86
-----	6A053	81	868	0.3 to 6.1	2	BJBL	BH	JAN 7 86	BGH	JAN 17 86
-----	6A054	91	869	0.5 to 5.7	2	BJBL	BH	JAN 7 86	BGH	JAN 23 86





# AGGREGATE CHART



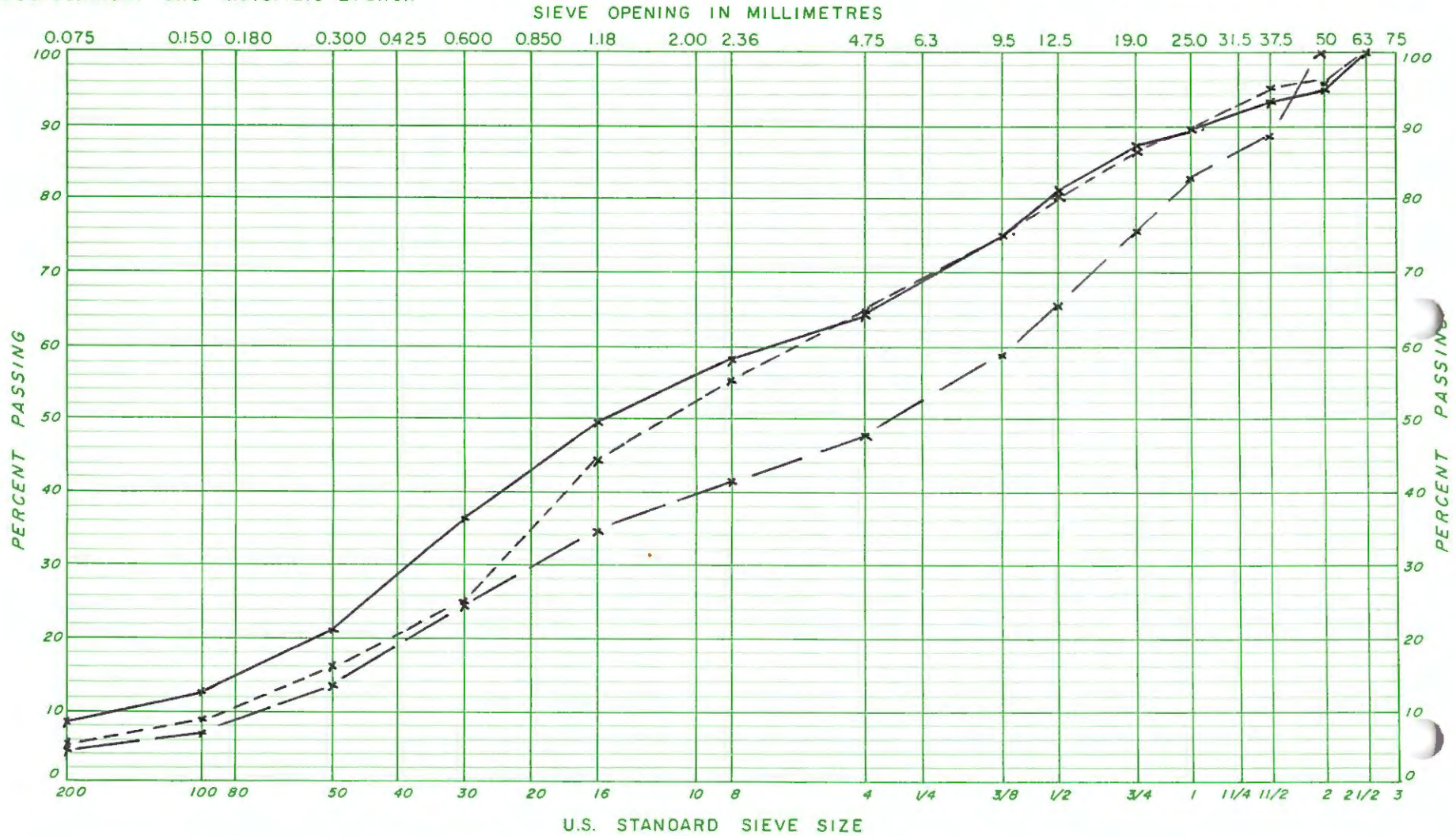
SAMPLE NO.					SAMPLE NO.				
PASSING	RET. ON	MASS	%	TOTAL % PASSING	PASSING	RET. ON	MASS	%	TOTAL % PASSING
490	B 930			0.15 - 2.4	TH #1				
}	DEGS	76.6%	Loss	1.4%					
		77.9%		1.3%					
505	D 7351			0.15 - 9.1	TH #2				
495	A 10769			0.15 - 3.0	TH #4				

IDENTIFICATION	
PROJECT NO.	YARD CR LOOP PIT
SECTION	# 2291
LOCATION	
STATION PLACED	
SAMPLE OF	PIT RUN
SAMPLED BY	R. DIXON
DATE	SEPT 20/82
SIEVE ANALYSIS BY	J. CHAUHAN
DATE	SEPT 29/82





# AGGREGATE CHART



SAMPLE NO.					SAMPLE NO.				
PASSING	RET. ON	MASS	%	TOTAL % PASSING	PASSING	RET. ON	MASS	%	TOTAL % PASSING
497	B457			0.3 - 9.1		TH #7			-----
	DEG'S	74.0%	Loss	1.5%					
		79.5%		1.5%					
498	B936			0.15 - 4.5		TH #8			-----
499	P1442			4.5 - 9.1		TH #8			-----

IDENTIFICATION	
PROJECT NO.	YARD CK LOOP PIT
SECTION	# 2291
LOCATION	
STATION PLACED	
SAMPLE OF	PIT RUN
SAMPLED BY	R. DIXON
SIEVE ANALYSIS BY	JWC
DATE	SEP 22/82
DATE	SEP 29/82



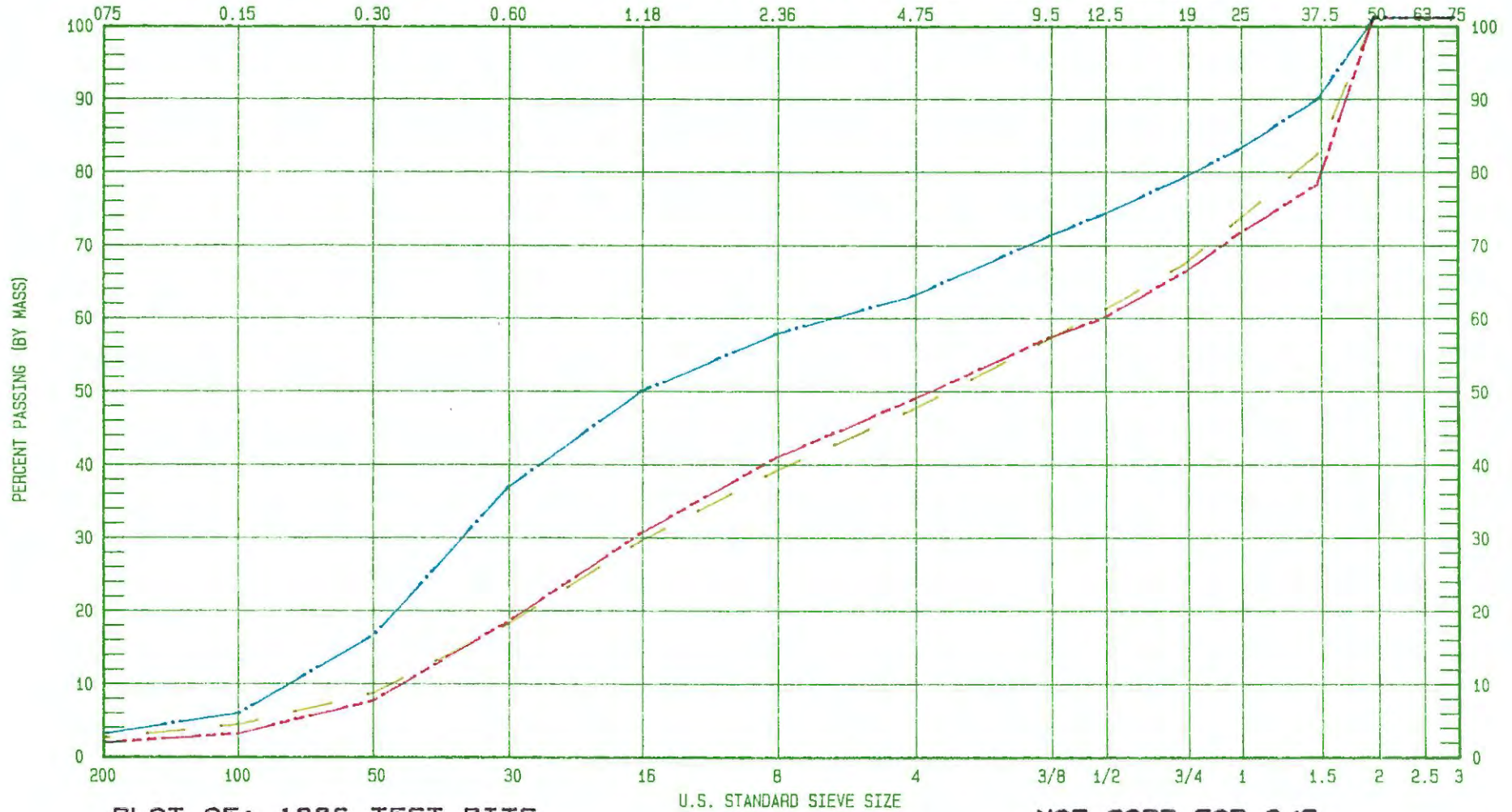
# AGGREGATE GRADATION CHART

REGION: KAMLOOPS

PROJECT: YARD CK LOOP P

DISTRICT: SALMON ARM

SIEVE OPENING (mm) FILE NUMBER: 22910A



PLOT OF: 1986 TEST PITS

U.S. STANDARD SIEVE SIZE

NOT CORR FOR 0/S

	BAG #	SAMPLE #	TESTHOLE/PIT	DEPTH	SAMPLE OF	SAMPLED BY	METHOD	DATE	TESTED BY	DATE
---	6A046	11	861	0.3 to 6.1	2	BJBL	BH	JAN 7 86	BGH	JAN 22 86
---	6A047	21	862	0.2 to 6.7	2	BJBL	BH	JAN 7 86	BGH	JAN 23 86
---	6A048	31	863	0.0 to 6.0	2	BJBL	BH	JAN 7 86	BGH	JAN 20 86



**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 DIATOM-ACEOUS 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
<b>UNIFIED SOIL CLASSIFICATION LEGEND</b>
Drawn: LU    Date: JULY'97    Scale:
File No.:    ACAD File: ACAD0709

## Photos



TP 18-03, July 2018.



TP 18-05 Spoil, July 2018.





TP 18-07 Spoil, July 2018.



TP 18-10, July 2018.





Photo taken on the eastern edge of Suitability Area B, facing north (May 2024).



Same location as previous photo, facing west into newly developed area (May 2024)





Same location as previous photo, facing southeast toward an area of stockpiled asphalt (May 2024).



Access into newly developed area near asphalt piles is blocked by boulders (May 2024).





View of southern and western edges of developed area (May 2024).



Overburden in background along western edge of developed area (May 2024).





Eastern developed area and recommended stockpile location (May 2024).



Example of surface conditions in center of newly developed area (May 2024).