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**Manitoba  
Energy and Mines  
Mines Branch**

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**Aggregate Report AR89-2**

# **Aggregate Resource Inventory in the L.G.D. of Reynolds**

**by G.L.D. Matile**

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**Energy and Mines**

**Mines Branch**

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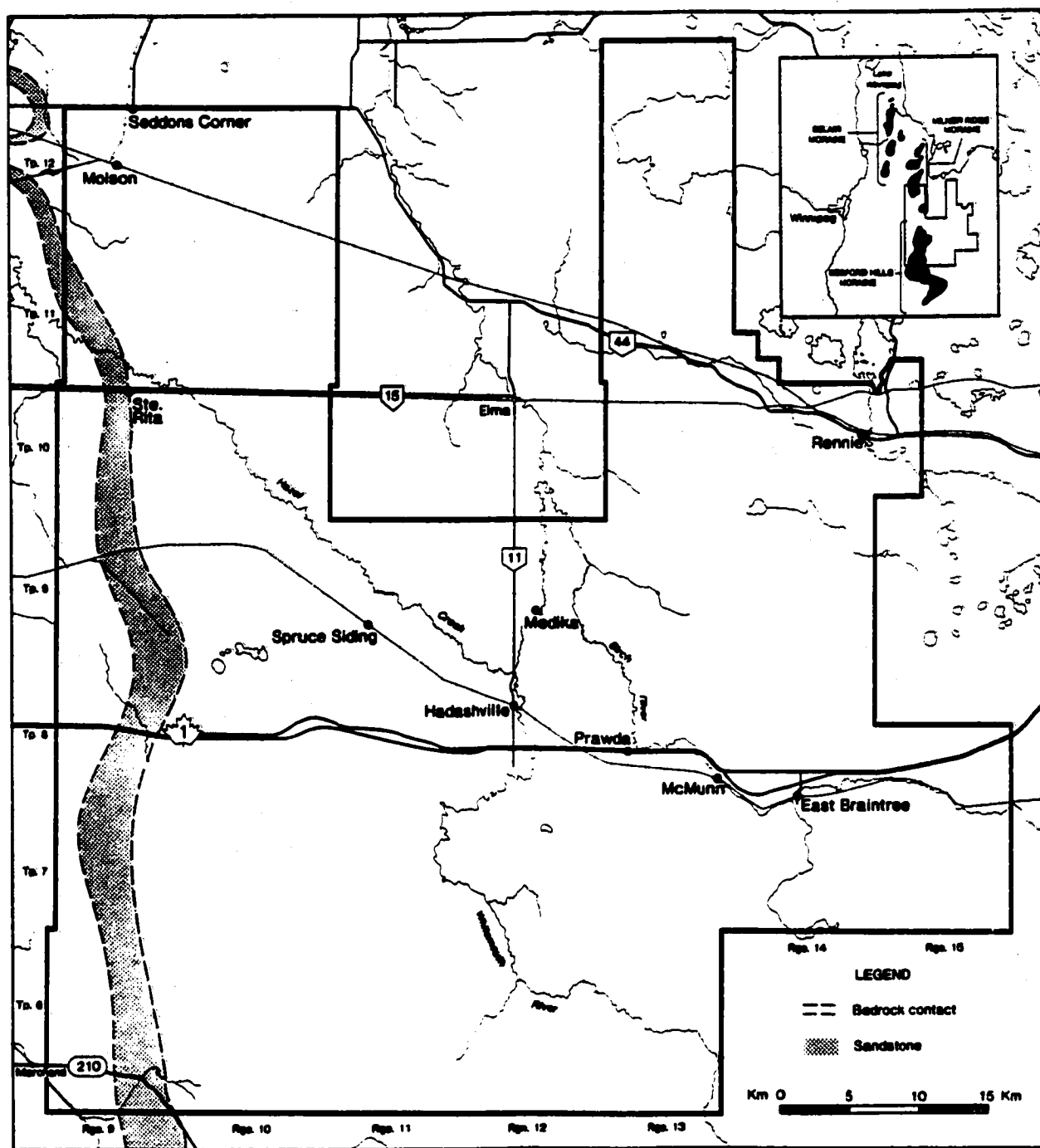


Figure 1: Location map.

## INTRODUCTION

### Objectives

An aggregate inventory was carried out for the Local Government District of Reynolds during the summers of 1984, 1985 and 1986. The objectives were to delineate sand and gravel deposits at a scale of 1:50 000 and to estimate the quantity and quality of material in each deposit. The aggregate inventory information would then provide a database for landuse planning and potential resource users.

### Location and Access

The Local Government District of Reynolds is located 43 km east of Winnipeg via PTH 15 or 49 km east via PTH 1. It comprises 37 townships (3450 km<sup>2</sup>), including a large portion of townships 5-13 ranges 9-15E (Fig. 1). The area is included on NTS map sheets; 52E, 52L, 62H and 62I.

A network of provincial roads, fire roads and trails provide access to much of the Local Government District of Reynolds. However, vast undeveloped areas, commonly swamp, are inaccessible.

Provincial Trunk Highways 1, 11, 15 and 44 transect the area and provide good access to major centres. The Local Government District boundaries encompass the major portion of the Agassiz, Sandilands and Whiteshell Provincial forests; a network of fire roads and trails has been created for forest management purposes. These forestry roads provide good access, but would generally require upgrading for truck traffic transporting aggregate.

### Physiography

The eastern third of the L.G.D. of Reynolds is primarily Precambrian bedrock and swamp. Local relief is generally less than 5m. The bedrock surface slopes westward, from approximately 340m in the east to 240m in the west and plunges beneath glacial drift and paleozoic bedrock.

The area west of the Canadian Shield ranges in elevation from 250m in the northwest to 380m in the southwest. The Milner Ridge-Bedford Hills Moraine trends southward from Seddons Corner (Fig. 1). This moraine rises as much as 50m above the surrounding landscape.

The moraine system is broken in townships 9 through 11 by several southeast trending ridges. These ridges are low and broad and bounded by swamp.

The depth to bedrock increases westward from the Canadian Shield to approximately 30m. This trend is broken in the area of the Milner Ridge - Bedford Hills Moraine where the depth to bedrock increases southward to a maximum of approximately 120m (Teller et al., 1976).

Drainage of the area is to the north. The Canadian Shield portion of the L.G.D. of Reynolds is drained by the Whitemouth River system which includes the tributaries of Birch, Boggy and Bog rivers. Except for a small area (approximately 80 square km.) in the southwest corner, which

is in the Seine River watershed, the remainder of the area is drained by the Brokenhead River system.

Hazel Creek, the major tributary of the Brokenhead River, has the unusual distinction of having had a portion of its watershed captured by the Whitemouth River. Two kilometres north of Hadashville, Hazel Creek branches off to the northwest. The first several kilometres of Hazel Creek channel west of the Whitemouth River are abandoned.

### Methodology

Prior to field investigation potential aggregate deposits were delineated on 1:50 000 airphotos incorporating: air-photo interpretation of black and white photographs at a scale of 1:50 000 and 1:15 840; information from pit inventory files of the Department of Highways and Transportation; and soils maps (Smith and Ehrlich, 1964; Smith and Ehrlich, 1967).

Field investigation was conducted over three field seasons commencing in the summer of 1984. The work started in the north and generally proceeded southward. All existing exposures, including gravel pits and road cuts, were visited and samples were collected from deposits considered to be of economic value. Sites believed to have unproven aggregate potential were backhoe tested in the latter portion of each field season.

Gravel samples collected in the summers of 1984 and 1985 weighed between 15 and 20 kg; the maximum grain size sampled was 76 mm (3 inches). During the winter of 1985 a new sampling procedure was developed to overcome sampling deficiencies in deposits with an abundance of material coarser than 19.1 mm (3/4 inch). At the same time the nest of screens used for grain size analysis was reduced from 22 to 11 screens (Fig. 2).

The new sampling procedure involved field screening using 3 inch (76 mm), 1 1/2 inch (38 mm) and 3/4 inch (19 mm) screens. Stones retained on the 1 1/2 inch and 3/4 inch screens were weighed in the field and a representative sample of the material passing the 3/4 inch screen was obtained for laboratory processing. This procedure made possible samples up to 150 kg when necessary (ASTM D75-82, 1987).

Petrographic analysis was performed on the 4-16 mm size fraction. Pebbles were divided into Paleozoic and Precambrian lithologies. Deleterious lithologies and weathered clasts were noted when present.

Field data and aggregate deposit boundaries were plotted on 1:15 840 scale airphotos and these were used to produce the 1:50 000 scale maps accompanying this report. Where detailed backhoe testing was carried out on regional significant gravel deposits, the 1:50 000 map scale is not adequate to reproduce the detail. These deposits (2184B and C, 3760B, 3767F and 2871A-L) are highlighted on the 1:50 000 maps and detailed on airphoto mosaic inserts on the appropriate mapsheets at a scale of 1:15 840.

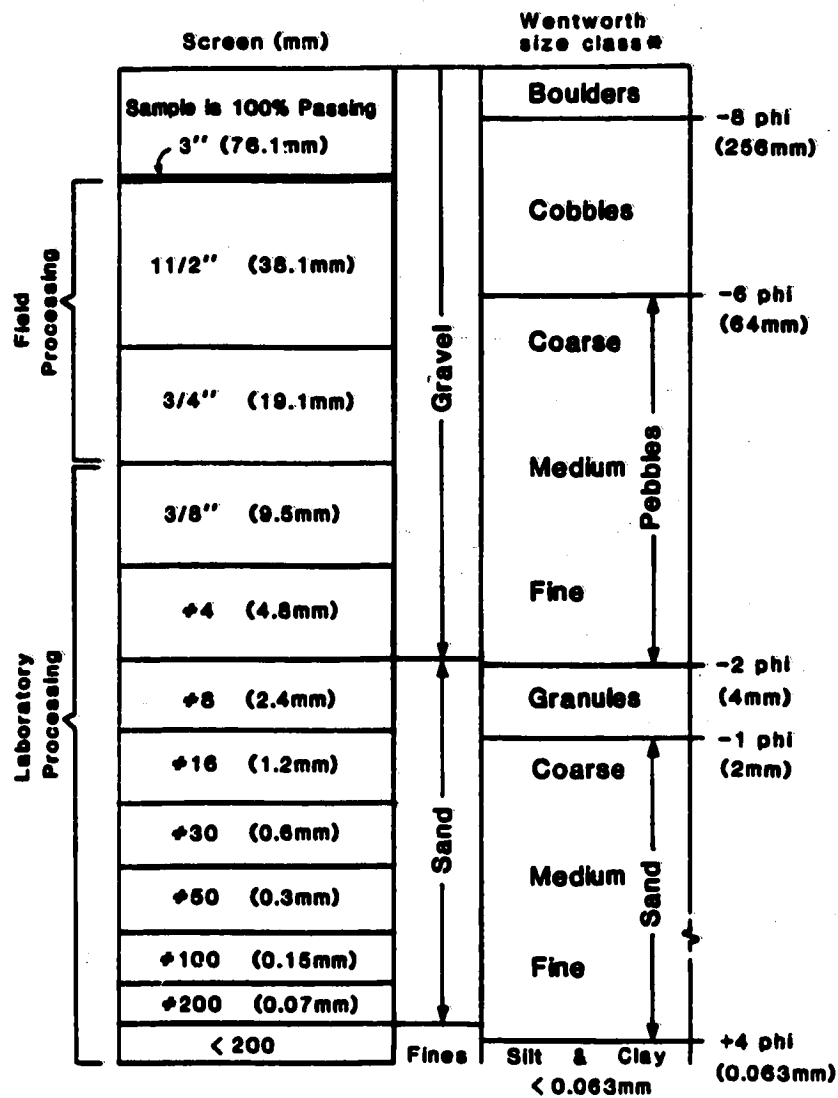


Figure 2: Grain size analysis and classification.

## Previous Work

Much of the L.G.D. of Reynolds has been mapped prior to this study and where possible this information has been integrated into this study. Smith and Ehrlich (1964 and 1967) mapped the surface deposits as part of the regional soil survey; the northern portion of the area as part of the Lac du Bonnet area (Report No. 15) and the south as part of the south-eastern sheet (Report No. 14). Nielsen (1987) mapped the northeast corner of the L.G.D. of Reynolds and defined the eastern margin of calcareous glacial sedimentation as a northwest trending line across that corner of the L.G.D. of Reynolds. Many of the deposits have been backhoe tested by Materials and Research Branch of the Manitoba Department of Highways and Transportation.

Preliminary studies by the Mines Branch covered the western townships of the area; Ringrose et al. (1977) recognized the importance of the Seddons Corner area and during their preliminary work generated a detailed study of the Seddons Corner deposit (Ringrose and Large; unpub.).

They strongly recommended that the Seddons Corner aggregate supply be protected for the Winnipeg market addressing the potential aggregate shortage in proximity to Winnipeg.

Underwood McLellan and Associates (1976) also recognized the importance of the western portion of the L.G.D. of Reynolds to the Winnipeg market area. They stressed that after the Birds Hill area the next significant aggregate source is the Belair-Agassiz-Sandilands Forest Reserves; a hauling distance to Winnipeg of 50-80 km.

## Acknowledgements

Many areas, particularly in the north, were backhoe tested in conjunction with Materials and Research Branch of the Manitoba Department of Highways. Ivan du Plessis provided able field assistance; M. Carvalho drafted the maps and figures, M. Bouttell typed the text, and S. Weselak formatted the report.

## BEDROCK GEOLOGY

Archean rocks of the Precambrian shield outcrop extensively throughout the eastern third of the map area. This complex sequence of intrusive rocks comprise primarily granite and granodiorite with lesser amounts of gneiss, migmatite and basalt (Manitoba Department of Mines, Resources and Environment, 1979).

The Ordovician Winnipeg Formation subcrops in range 9E, generally following the western boundary of the

map area (Fig. 1). The Winnipeg Formation is primarily quartzose sandstone interbedded with shale. The Winnipeg Formation subcrop belt separates the Ordovician Red River Formation to the west from the Archean rocks of the Precambrian shield. The Red River Formation is predominantly dolomitic limestone (Manitoba Department of Mines, Resources and Environment, 1979).



## LATE WISCONSINAN HISTORY

Late Wisconsin stratigraphy and history of the R.M. of Lac du Bonnet and the L.G.D. of Alexander, directly north of the L.G.D. of Reynolds, was discussed in detail by Matile and Groom (1987) and due to the similarities will not be discussed here. Surficial mapping in the L.G.D. of Reynolds suggests that, in addition to events depicted by Matile and Groom (1987), a late glacial event, possibly a surge, advanced into Lake Agassiz and transected the L.G.D. of Reynolds.

The area affected by the late glacial surge is defined by landform style and sediment lithology. Landforms within the area affected by the surge are strongly streamlined parallel to ice flow; deposits 3767, 3781, and the area of and between 3754 and 3760 are good examples (Map AR80-2-1). Streamlining of the area around deposit 3760 can clearly be seen in Detail C (Map AR89-2-1); ice flow was from the northwest. The area comprising deposits 2119, 2120, 2147, 2159, 2160 and 2163 is also streamlined and within the area affected by the surge.

The ice marginal position is defined by deposits 2124, 2184, 3748, 3756 and probably extends southward along the northwest edge of deposit 2111 (the northwest facing

escarpment) (Map AR89-2-1 and 3). An outwash fan (deposits 2189 and 2195) was formed at this ice margin by large volumes of glacial meltwater emanating from the subglacial channel defined between deposits 3754 and 3760. Glauconitic facies exposed in the southern portion of the Bedford Hills Moraine (Fig. 1) suggest that much of the moraine may have been built at this time.

In addition to a change in landform style, the northeast margin, the lateral margin of the surge, is defined by a dramatic change in sediment lithology. Deposits 3783, 3789 and 3793 (Map AR89-2-1) contain highly variable sediment lithologies, ranging from 85% Paleozoic lithologies to 80% Precambrian lithologies (Table 1) and represent an area of transition. They were probably overridden, but due to their proximity to the ice margin, were only partially modified. Deposit 2871 has not been affected by the surge. It's pristine, Precambrian-rich (averaging 78% Precambrian lithologies) landforms were deposited by an earlier advance of the Rainy Lobe (Matile and Groom, 1987). The only other deposits where Precambrian lithologies dominate are deposits 3730 (Map AR89-2-2) and 3785 (Map AR89-2-4).

Criteria		High	Medium	Low
AGGREGATE QUALITY	Stone %	30	15-30	0-15
	Sand %	0-35	35-70	70
	Mud %	0-7	7-17	17
	Shale %	0-5	5-12	12
	Other Deleterious	low	medium	high
	Thickness	5 m	2-5 m	0-2 m
	Uniformity	high	medium	low
DEPOSIT DEVELOPMENT POTENTIAL	Aggregate Quality	high	medium	low
	Crushable	abundant	moderate	minor
	Overburden	2 m	2-4 m	4 m
	Binder	yes	minor	none
	Water Table	5 m	2-5 m	0-2 m
	Geological Potential	good	moderate	low
	Verification	proven	limited	untested
	Local Access	0-1 km	1-5 km	5 km
	Quarrying Status	active	intermittent	inactive
	Transportation Diff.	high	medium	low
	Planning Constraints	none	conditional	sterilized
	Specialty Material	yes		no
	Aggregate Substitute	none	marginal	proximal

**Figure 3:** Aggregate quality and development potential guidelines. *Note: These guidelines are an attempt to classify deposits in a broad spectrum of areas throughout Manitoba. Importance of individual criteria varies greatly depending on availability of aggregate within each region.*

## AGGREGATE RESOURCES

Aggregate reserves were calculated on a per-quarter-section basis, taking into account proven depths and the amount of depletion and sterilization. Sample and deposit quality were established using the guidelines set out in Figure 3.

Deposit reserves, exposure information and grain size distribution of aggregate samples are included in Table 1. This information correlates to the aggregate maps by: 1) deposit number, 2) exposure number, and 3) legal description.

## REFERENCES

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- 1987: Annual Book of ASTM Standards, Vol. 04.02, Concrete and Aggregates.

### Manitoba Department of Mine, Resources and Environment

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### Matile, G. and Groom, H.

- 1987: Late Wisconsinan Stratigraphy and Sand and Gravel Resources in the Rural Municipality of Lac du Bonnet and Local Government District of Alexander; Manitoba Energy and Mines, Aggregate Report AR85-2, 44p.

### Nielsen, E.

- 1987: Quaternary geology of a part of southeastern Manitoba, north and south sheets; Manitoba Energy and Mines, Geological Report GR80-6 (Maps only), 1:100 000.

### Ringrose, S. and Large, P.

- Unpub: Pleistocene Geology, Gravel Resources and Gravel Management Recommendations for the Milner Ridge-Seddon's Corner Area; Manitoba Department of Mines, Resources and Environmental Management, Mineral Resources Division.

### Ringrose, S., Large, P., and Duyf, C.

- 1977: Manitoba Department of Mines, Resources and Environmental Management, Mineral Resources Division, Preliminary Map 1977 WPG - 5,6,11 and 12, 1:50 000.

### Smith, R.E. and Ehrlich, W.A.

- 1964: Soils Survey of the south-eastern map sheet area; Manitoba Soil Survey, Report No. 14, 108 p.

- 1967: Soils of the Lac du Bonnet area; Manitoba Soils Survey, Report No. 15, 118 p.

### Teller, J.T., Bannatyne, B.B., Large, P. and Ringrose, S.

- 1976: Total thickness of clay, silt, sand, gravel and till in southern Manitoba; Manitoba Department of Mines, Resources and Environmental Management, Mineral Resources Division, Surficial Geology Map 76-1, 1:500 000.

### Underwood McLellan and Associates Ltd.

- 1976: Aggregate resources of the Winnipeg region; Manitoba Department of Mines, Resources and Environmental Management, Open File Report OF77-4, 53p.

**TABLE 1: DEPOSIT RESERVES, EXPOSURE INFORMATION AND GRAIN SIZE DISTRIBUTION OF GRAVEL SAMPLES**

**DEPOSIT #002101A (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-29-005-09E	5000	0	5000	CROWN(PROVINCIAL)/CROWN	
SE-32-005-09E	170000	0	170000	CROWN(PROVINCIAL)/CROWN	
SW-33-005-09E	27500	0	27500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			202500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM898 (SE-32-005-09E)

VISITED: 86/10

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 3.0 METRES

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAV.OVER  
CRS. SD.

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 60% GENERAL CARBONATES

40% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM899 (SW-33-005-09E)

VISITED: 86/10

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 3.3 METRES

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEB. GRAV.

COMMENT: CLAY BALLS

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: 2.4 M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE:

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 32 005 09E GM898 A	88	81	73	65	56	43	24	8	3	1	ABUNDANT
SW 33 005 09E GM899 A	90	79	69	58	48	39	29	14	4	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002101B (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-33-005-09E	32000	30	22400	CROWN(PROVINCIAL)/CROWN	
SW-33-005-09E	50000	0	50000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			72400		

**EXPOSURE INFORMATION**

EXPOSURE #: GM765 (SW-33-005-09E) VISITED: 85/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.0 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: BOULDERY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM902 (SW-33-005-09E) VISITED: 86/10  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: ACTIVE PIT  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.4 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.1 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 33 005 09E GM765 A	97	91	77	56	39	28	19	6	3	1	ABUNDANT
SW 33 005 09E GM902 A	89	79	67	54	44	37	29	13	4	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002102 (UNDERLIES OLD ROAD)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-33-005-09E	134000	50	7000	CROWN(PROVINCIAL)/CROWN	
SW-33-005-09E	178000	50	89000	CROWN(PROVINCIAL)/CROWN	
NW-34-005-09E	48000	0	48000	CROWN(PROVINCIAL)/CROWN	
SW-34-005-09E	36000	50	18000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			222000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM766 (SE-33-005-09E)

VISITED: 85/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM900 (SW-33-005-09E)

VISITED: 86/10

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 0.0 METRES

QUALITY: LOW

MATERIAL DESCRIPTION: MEDIUM SAND WITH PEBBLES

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: 1.5 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: SAME AS IN PIT WALL

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM901 (SW-33-005-09E)

VISITED: 86/10

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 0.0 METRES

QUALITY: LOW

MATERIAL DESCRIPTION: PEBBLY SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.6 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY :

DELETERIOUS :

MATERIAL AT BASE: SILT

NO CHANNEL SAMPLE TAKEN

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 33 005 09E GM766 A	100	96	87	72	53	34	21	11	5	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002103**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-32-005-09E	34000	90	3400	CROWN(PROVINCIAL)/CROWN	
SW-05-006-09E	45000	90	4500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			7900		

**EXPOSURE INFORMATION**

EXPOSURE #: GM763 (NW-32-005-09E) VISITED: 85/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT TEMPORARY USE  
SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY  
ECONOMIC THICKNESS: 1.0 METRES QUALITY: LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: BEACH  
SECTION: A SECTION HEIGHT: 1.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 32 005 09E GM763 A	100	100	98	96	93	87	71	48	8	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002104 (GLACIOFLUVIAL-PRED.SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**EXPOSURE INFORMATION**

EXPOSURE #: GM764 (SE-05-006-09E)

VISITED: 85/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A

SECTION HEIGHT: 1.0 M.

DEPTH TO WATER TABLE: 1.5 M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE:TILL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 05 006 09E GM764 A	94	75	62	49	38	29	21	14	7	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002105 (GLACIOFLUVIAL-PRED.SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002106 (NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002107 (NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002108 (UNTESTED)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002109 (GLACIOFLUVIAL-SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM903 (NE-34-005-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM904 (SE-34-005-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: SAND, PEBBLY  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.7 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

DEPOSIT #002110A (LOWER CAMPBELL)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: G 441 (SE-33-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 85/09  
LAND USE: HIGHWAY, ROADWAY, RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: MEDIUM-FINE SAND SEVERAL  
COBBLES

COMMENT: LOWER CAMPBELL

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.3 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 442 (SE-33-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/09  
LAND USE: HIGHWAY,ROADWAY,RAILWAY  
SURROUNDING LAND USE: SURFACE EASEMENT OTHER  
THAN ROADWAY

ECONOMIC THICKNESS: 0.0 METRES

QUALITY: LOW  
MATERIAL DESCRIPTION: MED. SAND AND SILT MINOR SFPG  
COMMENT: LOWER CAMPBELL

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 444 (SE-05-007-11E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/09  
LAND USE: HIGHWAY,ROADWAY,RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 0.0 METRES

QUALITY: LOW  
MATERIAL DESCRIPTION: AEOLIAN SAND OVER PEBBLY SAND  
OCC.COB.

COMMENT: LOWER CAMPBELL

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM829 (SE-33-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/09  
LAND USE: HIGHWAY,ROADWAY,RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OCC.  
COBBLE

COMMENT: LOWER CAMPBELL

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM930 (NW-35-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: TIMBER AREA

ECONOMIC THICKNESS: 0.0 METRES

QUALITY:  
MATERIAL DESCRIPTION: PEBBLY MEDIUM-FINE SAND  
COMMENT: BERM OF LOWER CAMPBELL

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

## SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 33 006 10E GM829 A	100	97	87	80	71	60	44	23	2	1	ABUNDANT
NW 35 006 10E GM930 A	99	97	94	89	85	79	69	32	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002110B (LOWER CAMPBELL)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002110C (LOWER CAMPBELL)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002111A (INTERLOBATE MORaine)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

## EXPOSURE INFORMATION

EXPOSURE #: GM747 (NW-09-006-10E)  
EXPOSURE TYPE: BORROW PIT

ECONOMIC THICKNESS: 1.0 METRES

VISITED: 85/07  
LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM836 (SE-05-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.6 METRES

VISITED: 85/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OVER SAND  
COMMENT: VERY SANDY

SECTION: A SECTION HEIGHT: 3.2 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM905 (NW-04-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: EOLIAN SAND OVER MED-CRS SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM906 (NW-04-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.2 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL/SFPG  
& SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.6 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM912 (SE-08-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: MED.SD. WITH SDY.PEB.GRAV.LAYERS  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM913 (SW-08-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY:  
MATERIAL DESCRIPTION: SAND AND BOULDERS OVER SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM914 (SW-08-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 4.5 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: PEBBLY SAND OVER SDY.CO.B.PEB.  
GRAVEL

COMMENT: SAMPLE TO 4 M.

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND AND GRAVEL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM915 (NE-08-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY:  
MATERIAL DESCRIPTION: SAND WITH MINOR PEB.LAYERS  
OVER SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY:  
DELETERIOUS:  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM917 (SW-08-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.3 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER  
SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM918 (SE-08-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY:  
MATERIAL DESCRIPTION: PEBBLY COBBLY SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY:  
DELETERIOUS:  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM919 (NW-09-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY:  
MATERIAL DESCRIPTION: PEBBLE COBBLY SAND OVER FINE SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY :

DELETERIOUS :

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 374 (SE-05-006-10E)  
EXPOSURE TYPE: NATURAL EXPOSURE  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 85/06  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: BOULDER RIDGE  
COMMENT: ICEBERG DUMP

SECTION: A SECTION HEIGHT: 0.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY :

DELETERIOUS :

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 456 (NW-28-005-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 85/10  
LAND USE: HIGHWAY, ROADWAY, RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: FINE SAND MANY BOULDER ON SURFACE

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY :

DELETERIOUS :

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 460 (SW-33-005-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 85/10  
LAND USE: HIGHWAY, ROADWAY, RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: MINOR PEBBLY SAND OVER FINE SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY :

DELETERIOUS :

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 461 (NE-05-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 85/10

LAND USE: HIGHWAY, ROADWAY, RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW

MATERIAL DESCRIPTION: SAND WITH SDY PEBBLE GRAVEL  
LAYERS

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 462 (NW-04-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 85/10

LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW

MATERIAL DESCRIPTION: FINE SAND-MANY BOULDERS ON  
SURFACE

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 508 (SW-26-005-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10

LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW

MATERIAL DESCRIPTION: MEDIUM SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 512 (SW-25-005-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10

LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW

MATERIAL DESCRIPTION: MEDIUM SAND BOULDERS ON  
SURFACE

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN



EXPOSURE #: G 513 (SW-25-005-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: SAND WITH MINOR PEBBLE LAYER  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 09 006 10E GM747 A	99	95	90	81	72	63	51	36	28	27	SPARSE
NW 04 006 10E GM906 A	100	100	98	92	80	59	31	15	7	2	SPARSE
SW 08 006 10E GM914 A	94	89	85	79	75	69	62	48	33	9	ABUNDANT
NE 23 005 10E GM920 A	100	98	93	84	70	49	29	16	6	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002111B

NE-05-006-10E	100000	0	100000	CROWN(PROVINCIAL)/CROWN
SE-05-006-10E	32500	0	32500	CROWN(PROVINCIAL)/CROWN
DEPOSIT RESERVES			132500	

#### EXPOSURE INFORMATION

EXPOSURE #: GM835 (NE-05-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 4.5 METRES

QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 05 006 10E GM835 A	92	87	78	66	55	41	22	8	2	0	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002111C**

SE-08-006-10E	320000	0	320000	CROWN(PROVINCIAL)/CROWN
SW-09-006-10E	85000	0	85000	CROWN(PROVINCIAL)/CROWN
DEPOSIT RESERVES			405000	

**EXPOSURE INFORMATION**

EXPOSURE #: GM910 (SW-09-006-10E)	VISITED: 86/10
EXPOSURE TYPE: BACKHOE TEST PIT	LAND USE: FOREST NATURAL
ECONOMIC THICKNESS: 2.7 METRES	SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY
	QUALITY: MEDIUM
	MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL OVER PEB SD
	COMMENT: NONE
SECTION: A SECTION HEIGHT: 3.3 M.	DEPTH TO WATER TABLE: - M.
LITHOLOGY: 55% GENERAL CARBONATES	45% GENERAL PRECAMBRIAN
DELETERIOUS: WEATHERED PEBBLES	
MATERIAL AT BASE: SAND	
SEE SIEVE ANALYSIS	

EXPOSURE #: GM911 (SE-08-006-10E)	VISITED: 86/10
EXPOSURE TYPE: BACKHOE TEST PIT	LAND USE: FOREST NATURAL
ECONOMIC THICKNESS: 2.7 METRES	SURROUNDING LAND USE: FOREST NATURAL
	QUALITY: MEDIUM
	MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OCC.COBBLE
	COMMENT: NONE
SECTION: A SECTION HEIGHT: 3.3 M.	DEPTH TO WATER TABLE: - M.
LITHOLOGY: 60% GENERAL CARBONATES	40% GENERAL PRECAMBRIAN
DELETERIOUS: WEATHERED PEBBLES	
MATERIAL AT BASE: SAND	
SEE SIEVE ANALYSIS	

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
SW 09 006 10E GM910 A	91	82	72	63	54	42	26	10	3	0	SPARSE	
SE 08 006 10E GM911 A	95	86	75	63	50	34	21	8	2	1	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002111D (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-26-005-10E	45000	90	500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		450		

**EXPOSURE INFORMATION**

EXPOSURE #: GM748 (SE-26-005-10E)

VISITED: 85/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE : ACTIVE PIT

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH COBBLES

COMMENT: 1-3 M. OF OVERBURDEN

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 55% GENERAL PRECAMBRIAN

45% GENERAL CARBONATES

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 26 005 10E GM748 A	98	97	94	85	64	47	30	20	17	15	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002112**

NE-32-005-10E	116000	0	116000	CROWN(PROVINCIAL)/CROWN
NW-32-005-10E	20000	5	19000	CROWN(PROVINCIAL)/CROWN
SE-32-005-10E	9000	0	9000	CROWN(PROVINCIAL)/CROWN
SE-05-006-10E	31000	0	31000	CROWN(PROVINCIAL)/CROWN
SW-05-006-10E	24000	0	24000	CROWN(PROVINCIAL)/CROWN
DEPOSIT RESERVES			199000	

**EXPOSURE INFORMATION**

EXPOSURE #: GM746 (NW-32-005-10E)

VISITED: 85/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: TIMBER AREA

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.5 M.

DEPTH TO WATER TABLE: - M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM831 (NE-32-005-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.8 METRES

VISITED: 85/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OVER SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM832 (NE-32-005-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.2 METRES

VISITED: 85/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
W/SD LAYERS  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM833 (NE-32-005-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.3 METRES

VISITED: 85/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OVER FINE  
SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM834 (SE-05-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.6 METRES

VISITED: 85/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OVER SAND

COMMENT: BOULDERS IN SG  
SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 32 005 10E GM746 A	100	98	89	80	69	51	29	7	2	1	SPARSE
NE 32 005 10E GM832 A	95	87	74	62	52	41	32	12	4	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002113A**

NW-04-006-10E 100000 0 100000 CROWN(PROVINCIAL)/CROWN  
DEPOSIT RESERVES 100000

**EXPOSURE INFORMATION**

EXPOSURE #: GM837 (NW-04-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 85/10

LAND USE: TIMBER AREA

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OVER FINE SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM838 (NW-04-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.3 METRES

VISITED: 85/10

LAND USE: TIMBER AREA

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: SAND LAYERS BELOW 2 M.

SECTION: A SECTION HEIGHT: 3.9 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 04 006 10E GM837 A	98	88	80	71	60	47	25	5	2	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002113B**

NW-04-006-10E	34500	0	34500	CROWN(PROVINCIAL)/CROWN
SW-09-006-10E	10500	0	10500	CROWN(PROVINCIAL)/CROWN
<b>DEPOSIT RESERVES</b>			<b>45000</b>	

**EXPOSURE INFORMATION**

EXPOSURE #: GM907 (SW-09-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

ECONOMIC THICKNESS: 2.0 METRES

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER PEB. SD.

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM908 (SW-09-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: LOW

ECONOMIC THICKNESS: 0.0 METRES

MATERIAL DESCRIPTION: PEBBLY COARSE SAND OVER MED. SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.4 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 09 006 10E GM907 A	97	91	85	75	62	47	31	7	1	0	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002113C (VERY SANDY)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-09-006-10E	12000	0	12000	CROWN(PROVINCIAL)/CROWN	
NW-09-006-10E	33000	0	33000	CROWN(PROVINCIAL)/CROWN	
SW-09-006-10E	30000	0	30000	CROWN(PROVINCIAL)/CROWN	
<b>DEPOSIT RESERVES</b>			<b>75000</b>		

**EXPOSURE INFORMATION**

EXPOSURE #: GM909 (NW-09-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER SAND

COMMENT: CROSS-LAMINATED

SECTION: A SECTION HEIGHT: 2.7 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 09 006 10E GM909 A	100	97	88	80	72	55	24	6	3	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002114 (VERY SANDY)**

NE-08-006-10E	76000	0	76000	CROWN(PROVINCIAL)/CROWN
NW-08-006-10E	124000	0	124000	CROWN(PROVINCIAL)/CROWN
SW-08-006-10E	26000	0	26000	CROWN(PROVINCIAL)/CROWN
DEPOSIT RESERVES			226000	

**EXPOSURE INFORMATION**

EXPOSURE #: GM916 (NE-08-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.5 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 08 006 10E GM916 A	100	94	89	83	77	65	42	16	5	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002115 (UNTESTED)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002116 (UPPER CAMPBELL-VERY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: G 447 (NE-10-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 85/09  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: HORIZONTALLY BEDDED PEBBLY SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.8 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY :

DELETERIOUS :

MATERIAL AT BASE: SAME AS IN PIT WALL

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 448 (NE-10-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 85/09  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: MEDIUM-COARSE SAND OCC.PEBBLE  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY :

DELETERIOUS :

MATERIAL AT BASE: SAME AS IN PIT WALL

NO CHANNEL SAMPLE TAKEN

**DEPOSIT #002117 (DUNES OVER BEACH)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**DEPOSIT #002118 (BEACH POSS.SOME OUTWASH)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-21-006-10E	1264000	0	1264000	CROWN(PROVINCIAL)/CROWN	
NW-21-006-10E	96000	0	96000	CROWN(PROVINCIAL)/CROWN	
SE-21-006-10E	92000	0	92000	CROWN(PROVINCIAL)/CROWN	
NW-22-006-10E	974000	0	974000	CROWN(PROVINCIAL)/CROWN	
SW-22-006-10E	212000	0	212000	CROWN(PROVINCIAL)/CROWN	
NW-27-006-10E	384000	0	384000	CROWN(PROVINCIAL)/CROWN	
SW-27-006-10E	1104000	0	1104000	CROWN(PROVINCIAL)/CROWN	
SE-28-006-10E	550000	0	550000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			4676000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM922 (SW-27-006-10E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 86/10

LAND USE: TIMBER AREA

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM923 (NW-22-006-10E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 86/10

LAND USE: TIMBER AREA

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER  
PEB.SD.

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM924 (NE-21-006-10E) VISITED: 86/10  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: TIMBER AREA  
 ECONOMIC THICKNESS: 2.8 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OCC.COBBLE  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 3.5 M.  
 LITHOLOGY: 50% GENERAL CARBONATES 50% GENERAL PRECAMBRIAN  
 DELETERIOUS:  
 MATERIAL AT BASE: SAND  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM925 (NW-21-006-10E) VISITED: 86/10  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: TIMBER AREA  
 ECONOMIC THICKNESS: 2.5 METRES QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: PEBBLY COARSE SAND OCC.COBBLE  
 COMMENT: PEA GRAVEL AT BASE  
 SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: 2.0 M.  
 LITHOLOGY: 50% GENERAL CARBONATES 50% GENERAL PRECAMBRIAN  
 DELETERIOUS:  
 MATERIAL AT BASE: SAND AND GRAVEL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM926 (NE-21-006-10E) VISITED: 86/10  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: TIMBER AREA  
 ECONOMIC THICKNESS: 2.5 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SAND OVER SDY.FINE PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 2.8 M. DEPTH TO WATER TABLE: - M.  
 LITHOLOGY: 50% GENERAL CARBONATES 50% GENERAL PRECAMBRIAN  
 DELETERIOUS:  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM927 (SW-22-006-10E) VISITED: 86/10  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: TIMBER AREA  
 ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: - M.  
 LITHOLOGY: 50% GENERAL CARBONATES 50% GENERAL PRECAMBRIAN  
 DELETERIOUS:  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM928 (SW-27-006-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.5 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SAND OVER SPG OVER SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.2 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 50% GENERAL CARBONATES 50% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING											OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		
SW 27 006 10E GM922 A	99	94	92	85	78	66	43	8	2	1	SPARSE	
NW 22 006 10E GM923 A	96	92	86	79	72	62	43	9	2	1	SPARSE	
NE 21 006 10E GM924 A	91	83	77	70	63	54	41	19	3	2	SPARSE	
NW 21 006 10E GM925 A	100	100	95	90	80	54	31	13	3	2	SPARSE	
NE 21 006 10E GM926 A	95	91	84	76	68	58	45	16	3	1	SPARSE	
SW 22 006 10E GM927 A	95	76	68	57	47	37	22	9	2	1	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002119 (GLACIOFLUVIAL)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

#### EXPOSURE INFORMATION

EXPOSURE #: G 501 (NW-18-006-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: SAND OVER SAND DIAMICT  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY :  
DELETERIOUS :  
MATERIAL AT BASE: TILL  
NO CHANNEL SAMPLE TAKEN

DEPOSIT #002120 (GLACIOFLUVIAL)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

# DEPOSIT #002121

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-29-006-09E	286000	15	243100	CROWN(PROVINCIAL)/CROWN	
NE-30-006-09E	154000	70	46200	CROWN(PROVINCIAL)/CROWN	
NW-30-006-09E	4000	0	4000	CROWN(PROVINCIAL)/CROWN	
SE-31-006-09E	92000	20	73600	CROWN(PROVINCIAL)/CROWN	
SW-31-006-09E	20000	0	20000	CROWN(PROVINCIAL)/CROWN	
SW-32-006-09E	14000	0	14000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			400900		

## EXPOSURE INFORMATION

EXPOSURE #: GM767 (NE-30-006-09E) VISITED: 85/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM768 (NE-30-006-09E) VISITED: 85/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT TEMPORARY USE  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 2.5 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

## SIEVE ANALYSIS

	PERCENT PASSING											OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		
NE 30 006 09E GM767 A	100	98	85	65	46	25	5	3	2	1	ABUNDANT	
NE 30 006 09E GM768 A	84	75	55	37	22	12	8	5	3	2	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002122 (TESTED BY HIGHWAY'S)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-28-006-09E	28500	0	28500	CROWN(PROVINCIAL)/CROWN	
NW-28-006-09E	400500	0	400500	CROWN(PROVINCIAL)/CROWN	
SW-28-006-09E	69000	0	69000	CROWN(PROVINCIAL)/CROWN	
SE-29-006-09E	168000	0	168000	CROWN(PROVINCIAL)/CROWN	
SE-33-006-09E	345000	0	345000	CROWN(PROVINCIAL)/CROWN	
SW-33-006-09E	19500	0	19500	CROWN(PROVINCIAL)/CROWN	
SW-34-006-09E	229500	0	229500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			1260000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM769 (NW-28-006-09E)

VISITED: 85/07

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 0.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 28 006 09E GM769 A	99	95	87	80	71	64	50	14	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002123A (UNTESTED-NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002123B (UNTESTED-NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002124A (PREDOMINANTLY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM933 (SW-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 86/10

LAND USE: HIGHWAY,ROADWAY,RAILWAY

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SCPG TO CRS.SD.OVER MED-SD.

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM934 (SW-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.3 METRES

VISITED: 86/10

LAND USE: HIGHWAY,ROADWAY,RAILWAY

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER FINE SD.

COMMENT: CROSS-BEDDED

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM937 (NE-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10

LAND USE: TIMBER AREA

SURROUNDING LAND USE: TIMBER AREA

QUALITY: LOW

MATERIAL DESCRIPTION: MEDIUM SAND WITH SFPG LAYERS

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.3 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

**DEPOSIT #002124B**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-06-007-10E	12000	0	12000	CROWN(PROVINCIAL)/CROWN	
NW-06-007-10E	6000	0	6000	CROWN(PROVINCIAL)/CROWN	
NE-07-007-10E	123000	10	110700	CROWN(PROVINCIAL)/CROWN	
NW-07-007-10E	360000	0	360000	CROWN(PROVINCIAL)/CROWN	
SE-07-007-10E	243000	0	243000	CROWN(PROVINCIAL)/CROWN	
SW-07-007-10E	348000	10	313200	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		1044900		

**EXPOSURE INFORMATION**

EXPOSURE #: GM931 (NW-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.5 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: HIGHWAY, ROADWAY, RAILWAY  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM932 (NW-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 4.0 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: MEDIUM SAND TO PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.2 M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: SAND AND GRAVEL

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM935 (SW-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.5 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: MEDIUM SAND OVER SDY. COB. PEB.  
GRAV.  
COMMENT: SAMPLE 2.3-3.5M

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 2.5 M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: SAND AND GRAVEL

SEE SIEVE ANALYSIS

EXPOSURE #: GM936 (SW-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OCC.  
COBBLE

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.8 M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM939 (NE-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.0 METRES

VISITED: 86/10  
LAND USE: HIGHWAY, ROADWAY, RAILWAY  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAV. VERY SANDY

COMMENT: BETTER AT DEPTH

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.8 M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND AND GRAVEL  
NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING											OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		
NW 07 007 10E GM931 A	91	82	72	58	44	29	15	5	2	1	ABUNDANT	
NE 07 007 10E GM934 A	90	85	81	75	70	60	42	15	3	2	SPARSE	
SW 07 007 10E GM935 A	93	75	54	42	32	21	13	6	2	1	ABUNDANT	
SW 07 007 10E GM936 A	96	91	85	74	58	36	17	7	3	2	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002125 (PREDOMINANTLY SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

#### DEPOSIT #002126A

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-32-006-10E	26000	0	26000	CROWN(PROVINCIAL)/CROWN	
NE-06-007-10E	56000	0	56000	CROWN(PROVINCIAL)/CROWN	
SE-06-007-10E	144000	10	129600	CROWN(PROVINCIAL)/CROWN	

DEPOSIT RESERVES 211600

#### EXPOSURE INFORMATION

EXPOSURE #: GM779 (SE-06-007-10E) VISITED: 85/08  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT TEMPORARY USE  
SURROUNDING LAND USE: TIMBER AREA  
ECONOMIC THICKNESS: 1.5 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS



EXPOSURE #: GM826 (NE-06-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.3 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE:  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 06 007 10E GM779 A	98	78	62	56	53	47	36	16	1	0	SPARSE
NE 06 007 10E GM826 A	99	96	83	74	64	55	48	16	1	0	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002126B  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

#### EXPOSURE INFORMATION

EXPOSURE #: GM938 (SE-07-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.5 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 07 007 10E GM938 A	99	90	83	72	62	53	44	13	1	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002126C (PREDOMINANTLY SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002126D (PREDOMINANTLY SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002127A (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM827 (SE-06-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/09

LAND USE: HIGHWAY, ROADWAY, RAILWAY

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

ECONOMIC THICKNESS: 2.3 METRES

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL W/SAND LAYERS

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 06 007 10E GM827 A	96	94	89	83	75	59	40	6	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002127B (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002127C (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002128 (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002129 (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM828 (SW-09-007-10E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.5 METRES

VISITED: 85/09

LAND USE: TIMBER AREA

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: LOW

MATERIAL DESCRIPTION: COBBLY PEBBLY SAND

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 09 007 10E GM828 A	99	98	98	94	91	81	51	13	3	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002130 (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002131 (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002132A (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002132B (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002133 (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002134 (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002135A (PREDOMINANTLY SAND-DUNE COVERED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM830 (NE-04-007-11E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.8 METRES

VISITED: 85/09

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: HIGHWAY, ROADWAY, RAILWAY.

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
VERY SANDY

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.8 M. DEPTH TO WATER TABLE: 2.8 M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 04 007 11E GM830 A	94	91	87	81	75	65	52	29	6	1	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002135B (PREDOMINANTLY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002135C (PREDOMINANTLY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002136A (PREDOMINANTLY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002136B (PREDOMINANTLY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002137 (UNTESTED-LIKELY SANDY)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002138A (UNTESTED-DUNE COVERED)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002138B (UNTESTED-DUNE COVERED)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002138C (UNTESTED-DUNE COVERED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002138D (UNTEST-DUNE COVERED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002139 (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002140 (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002141 (BOULDER STREWN SANDPLAIN)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: G 385 (NW-11-007-11E) VISITED: 85/07  
EXPOSURE TYPE: BULLDOZER TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY  
ECONOMIC THICKNESS: 0.0 METRES QUALITY:  
MATERIAL DESCRIPTION: BOULDER LAG OVER TILL OVER SAND  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 1.0 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY:  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: G 443 (NE-10-007-11E) VISITED: 85/09  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: HIGHWAY,ROADWAY,RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 0.0 METRES QUALITY:  
MATERIAL DESCRIPTION: BOULDER LAG OVER SAND TILL-SD  
DUNES  
COMMENT: TILL SAMPLE  
SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY :  
DELETERIOUS :  
MATERIAL AT BASE:  
NO CHANNEL SAMPLE TAKEN

**DEPOSIT #002143A (VERY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM948 (NW-35-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.0 METRES

VISITED: 86/10  
LAND USE: HIGHWAY, ROADWAY, RAILWAY  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: LOW  
MATERIAL DESCRIPTION: MEDIUM TO COARSE SAND OCC.  
PEBBLE

COMMENT: BEACH CREST

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 35 007 10E GM948 A	100	100	99	98	93	79	57	21	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002143B (PREDOMINANTLY SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002143C (PREDOMINANTLY SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002144 (OUTWASH CHANNEL)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-29-007-10E	85000	0	85000	CROWN(PROVINCIAL)/CROWN	
NW-29-007-10E	82500	0	82500	CROWN(PROVINCIAL)/CROWN	
SE-29-007-10E	182500	5	173375	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			340875		

**EXPOSURE INFORMATION**

EXPOSURE #: GM953 (SE-29-007-10E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 86/10

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: COBBLES AND BOULDERS OVER  
CRS.SD.PEBBLY

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M.

DEPTH TO WATER TABLE: 1.5 M.

LITHOLOGY: 60% GENERAL CARBONATES

40% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM954 (SE-29-007-10E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: BOULDERS OVER CRS.SAND PEBBLY  
OCC.COB.

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 60% GENERAL CARBONATES

40% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 29 007 10E GM953 A	99	96	92	88	81	58	14	5	2	2	ABUNDANT
SE 29 007 10E GM954 A	100	99	97	94	82	54	20	5	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002145 (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-20-007-10E	154500	0	154500	CROWN(PROVINCIAL)/CROWN	
NW-20-007-10E	300000	0	300000	CROWN(PROVINCIAL)/CROWN	
SE-20-007-10E	136500	5	129675	CROWN(PROVINCIAL)/CROWN	
SW-21-007-10E	21000	0	21000	CROWN(PROVINCIAL)/CROWN	
NW-29-007-10E	34500	0	34500	CROWN(PROVINCIAL)/CROWN	
SE-29-007-10E	3000	0	3000	CROWN(PROVINCIAL)/CROWN	
SW-29-007-10E	291000	0	291000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		933675		

**EXPOSURE INFORMATION**

EXPOSURE #: GM762 (SE-20-007-10E) VISITED: 85/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE (COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 1.0 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COARSE PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 1.0 M. DEPTH TO WATER TABLE: 1.0 M.  
LITHOLOGY: 80% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM823 (SE-29-007-10E) VISITED: 85/09  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: HIGHWAY, ROADWAY, RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 1.5 METRES QUALITY: HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY COARSE PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 2.3 M. DEPTH TO WATER TABLE: 1.5 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM824 (SE-20-007-10E) VISITED: 85/09  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: HIGHWAY, ROADWAY, RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NEAR GM762  
SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 20 007 10E GM762 A	98	85	69	52	36	19	8	3	1	1	SPARSE
SE 29 007 10E GM823 A	84	75	67	55	38	22	13	9	6	4	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)



**DEPOSIT #002146 (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-19-007-10E	180000	15	153000	CROWN(PROVINCIAL)/CROWN	
NW-19-007-10E	38000	0	38000	CROWN(PROVINCIAL)/CROWN	
SE-19-007-10E	28000	0	28000	CROWN(PROVINCIAL)/CROWN	
SE-30-007-10E	4000	0	4000	CROWN(PROVINCIAL)/CROWN	
SW-30-007-10E	58000	0	58000	CROWN(PROVINCIAL)/CROWN	
<b>DEPOSIT RESERVES</b>			<b>281000</b>		

**EXPOSURE INFORMATION**

EXPOSURE #: GM760 (NW-19-007-10E)  
EXPOSURE TYPE: HAND DUG HOLE

ECONOMIC THICKNESS: 1.0 METRES

VISITED: 85/07

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OCC.  
COBBLES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM941 (NE-19-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 86/10

LAND USE: HIGHWAY,ROADWAY,RAILWAY

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SDY.COBB.COARSE PEB.GRAV.OCC.  
BOULDER

COMMENT: OVER SAND

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 50% GENERAL CARBONATES 50% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM942 (SW-30-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.3 METRES

VISITED: 86/10

LAND USE: HIGHWAY,ROADWAY,RAILWAY

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SCCPG OVER SAND OVER SPG OVER  
PEB.SD.

COMMENT: SAMPLE 2.8-3.5M

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 50% GENERAL CARBONATES 50% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										#200 OVERSIZE	
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100			
NW 19 007 10E GM760 A	97	92	78	64	51	37	20	6	3	1	ABUNDANT	
NE 19 007 10E GM941 A	85	74	65	55	47	39	31	11	3	2	ABUNDANT	
SW 30 007 10E GM942 A	99	97	96	89	71	56	43	31	18	5	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002147A (BOULDER STREWN SANDPLAIN)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM882 (SW-21-007-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 4.8 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.8 M. DEPTH TO WATER TABLE: 3.5 M.

LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND AND GRAVEL

SEE SIEVE ANALYSIS

EXPOSURE #: GM883 (SW-21-007-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.2 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL OVER SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.2 M. DEPTH TO WATER TABLE: 3.6 M.

LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM884 (SW-21-007-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.8 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL OVER FINE SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM885 (SW-21-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.6 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL OVER SAND  
& DIAMICT

COMMENT: NONE

SECTION: A SECTION HEIGHT: 0.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: TILL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM886 (NW-16-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY:  
MATERIAL DESCRIPTION: SAND & BOULDERS OVER SAND &  
DIAMICT

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY:  
DELETERIOUS:  
MATERIAL AT BASE: TILL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM889 (NW-16-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.7 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SDY COBBLY PEBBLE GRAV. OVER  
DIAMICT

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM890 (NW-16-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY:  
MATERIAL DESCRIPTION: SAND DIAMICT OVER SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY:  
DELETERIOUS:  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM891 (NW-16-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY:

MATERIAL DESCRIPTION: COBBLY SD & BOULDERS OVER SAND

COMMENT: NONE

EXPOSURE #: GM892 (SW-16-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.8 M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY:

MATERIAL DESCRIPTION: COBBLY SD & BOULDERS OVER SAND

COMMENT: NONE

EXPOSURE #: GM893 (SW-16-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

SECTION: A SECTION HEIGHT: 2.7 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: TILL

NO CHANNEL SAMPLE TAKEN

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY:

MATERIAL DESCRIPTION: SD & BOULDERS OVER SILT DIAMICT

COMMENT: NONE

EXPOSURE #: GM897 (SW-16-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.9 METRES

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER BOULDERS

COMMENT: NONE

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 21 007 09E GM882 A	96	88	76	56	35	20	12	8	6	4	ABUNDANT
SW 16 007 09E GM897 A	99	95	87	79	72	63	40	15	5	2	ABUNDANT
NW 16 007 09E GM889 A	91	83	76	66	60	55	49	17	3	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002147B (SG POCKET IN SAND PLAIN)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW-16-007-09E	95400	0	95400	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		95400		

**EXPOSURE INFORMATION**

EXPOSURE #: GM894 (SW-16-007-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.8 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER DIAMICT

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

EXPOSURE #: GM895 (SW-16-007-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEB.GRAV. OVER DIAMICT

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.7 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE: TILL

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM896 (SW-16-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.3 METRES

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAV. GRADING  
TO SD.

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: TILL  
NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 16 007 09E GM894 A	99	89	73	60	51	44	35	12	2	0	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002148A (TRANSVERSE TO BEACH)

LOCATION	INITIAL RESERVES (m3)	PERCENT DEPLETED	REMAINING RESERVES (m3)	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-17-007-10E	45000	35	29250	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		29250		

#### EXPOSURE INFORMATION

EXPOSURE #: GM761 (NE-17-007-10E) VISITED: 85/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: TIMBER AREA  
ECONOMIC THICKNESS: 1.5 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM825 (NE-17-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.8 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: NEAR GM761

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NE 17 007 10E GM761 A	83	73	64	58	55	47	32	5	1	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002148B (TRANSVERSE TO BEACH)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-17-007-10E	96000		0	96000	CROWN(PROVINCIAL)/CROWN
DEPOSIT RESERVES			96000		

#### EXPOSURE INFORMATION

EXPOSURE #: GM955 (NE-17-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.2 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OVER MED.  
SAND  
COMMENT: PLANTATION

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NE 17 007 10E GM955 A	93	83	72	64	57	48	28	3	1	0	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002149**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-17-007-09E	16000	0	16000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		16000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM887 (NE-17-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY:  
MATERIAL DESCRIPTION: BOULDER OVER FINE SAND  
COMMENT: NONE

ECONOMIC THICKNESS: 0.0 METRES

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY :

DELETERIOUS :

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM888 (NE-17-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 86/10  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OCC.COBBLE  
COMMENT: BEACH

ECONOMIC THICKNESS: 1.8 METRES

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.0 M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NE 17 007 09E GM888 A	95	89	80	70	61	51	36	13	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002150 (BOULDER STREWN SANDPLAIN)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002151 (BOULDER STREWN SANDPLAIN)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**EXPOSURE INFORMATION**

EXPOSURE #: G 500 (NW-07-007-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: LOW

MATERIAL DESCRIPTION: BOULDERS OVER SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

**DEPOSIT #002152 (EXTENSION OF DEP. 002205)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW-18-007-09E	27500	0	27500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		27500		

**DEPOSIT #002153A (EXTENSION OF DEP. 002219)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM871 (NW-19-007-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.2 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH COBBLES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM872 (NW-19-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 86/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.4 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 19 007 09E GM871 A	97	84	70	59	51	38	31	21	8	3	ABUNDANT
W 19 007 09E GM872 A	88	81	75	66	54	36	19	7	3	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002153B (WAVE MODIFIED-GLACIOFLUVIAL)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-19-007-09E	54000	0	54000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		54000		

#### EXPOSURE INFORMATION

EXPOSURE #: GM873 (NW-19-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.8 METRES

VISITED: 86/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: BOULDERY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.2 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: TILL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM874 (NW-19-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.0 METRES

VISITED: 86/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: BOULDERS AT BASE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 19 007 09E GM874 A	100	100	98	82	63	29	8	4	3	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002154 (EXTENSIVE MINING IN PAST)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-18-007-09E	70500	75	17625	CROWN(PROVINCIAL)/CROWN	
SE-19-007-09E	3000	90	300	CROWN(PROVINCIAL)/CROWN	
SW-19-007-09E	13500	60	5400	CROWN(PROVINCIAL)/CROWN	

DEPOSIT RESERVES 23325

DEPOSIT #002155 (BOULDER STREWN SANDPLAIN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002156 (BOULDER STREWN SANDPLAIN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002157 (BOULDER STREWN SANDPLAIN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002158 (BOULDER STREWN SANDPLAIN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002159 (BOULDER STREWN SANDPLAIN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002160 (BOULDER STREWN SANDPLAIN)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**EXPOSURE INFORMATION**

**EXPOSURE #:** GM756 (SE-06-008-09E)  
**EXPOSURE TYPE:** BACKHOE TEST PIT

**ECONOMIC THICKNESS:** 1.5 METRES

**VISITED:** 85/07

**LAND USE:** SURFACE EASEMENT OTHER THAN ROADWAY  
**SURROUNDING LAND USE:** FOREST NATURAL

**QUALITY:** MEDIUM

**MATERIAL DESCRIPTION:** SANDY COARSE PEBBLE GRAVEL

**COMMENT:** NONE

**SECTION:** A **SECTION HEIGHT:** 1.5 M. **DEPTH TO WATER TABLE:** -M.

**LITHOLOGY:** 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

**DELETERIOUS:** CARBONATE INCRUSTATION

**MATERIAL AT BASE:** SAND

**SEE SIEVE ANALYSIS**

**EXPOSURE #:** GM869 (NE-06-008-09E)  
**EXPOSURE TYPE:** BACKHOE TEST PIT

**ECONOMIC THICKNESS:** 2.1 METRES

**VISITED:** 86/08

**LAND USE:** FOREST NATURAL

**SURROUNDING LAND USE:** FOREST NATURAL

**QUALITY:** MEDIUM

**MATERIAL DESCRIPTION:** SANDY PEBBLE GRAVEL OCC.  
COBBLES

**COMMENT:** BOULDERS AT BASE

**SECTION:** A **SECTION HEIGHT:** 2.7 M. **DEPTH TO WATER TABLE:** -M.

**LITHOLOGY:** 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

**DELETERIOUS:** CARBONATE INCRUSTATION

**MATERIAL AT BASE:** SAND

**SEE SIEVE ANALYSIS**

**EXPOSURE #:** GM870 (SE-06-008-09E)  
**EXPOSURE TYPE:** BACKHOE TEST PIT

**ECONOMIC THICKNESS:** 2.0 METRES

**VISITED:** 86/08

**LAND USE:** FOREST NATURAL

**SURROUNDING LAND USE:** FOREST NATURAL

**QUALITY:** MEDIUM HIGH

**MATERIAL DESCRIPTION:** SANDY PEBBLE GRAVEL WITH  
COBBLES

**COMMENT:** NONE

**SECTION:** A **SECTION HEIGHT:** 3.6 M. **DEPTH TO WATER TABLE:** -M.

**LITHOLOGY:** 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

**DELETERIOUS:** CARBONATE INCRUSTATION

**MATERIAL AT BASE:** SAND

**SEE SIEVE ANALYSIS**

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 06 008 09E GM756 A	95	83	64	48	36	25	16	8	4	2	ABUNDANT
SE 06 008 09E GM870 A	95	85	77	63	49	34	19	8	5	3	ABUNDANT
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002161 (EXTENSION OF DEP. 002225)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002162 (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002163 (BOULDER STREWN SANDPLAIN)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM757 (NE-32-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/07  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

ECONOMIC THICKNESS: 1.5 METRES

SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NE 32 007 09E GM757 A	99	88	71	56	45	32	19	9	5	3	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002164 (BOULDER STREWN SANDPLAIN)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002165 (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002166**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-06-008-09E	49500	0	49500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		49500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM867 (NW-06-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: COBBLES AT BASE

SECTION: A SECTION HEIGHT: 2.6 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM868 (NW-06-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.6 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: BOULDERS AT BASE

SECTION: A SECTION HEIGHT: 3.6 M. DEPTH TO WATER TABLE: 3.3 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 06 008 09E GM867 A	100	93	81	65	45	28	18	7	4	2	ABUNDANT
NW 06 008 09E GM868 A	100	95	71	50	37	26	17	7	4	3	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002167 (BOULDER STREWN SANDPLAIN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM866 (NW-06-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.0 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL WITH BOULDERS

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: 2.8 M.

LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 06 008 09E GM866 A	95	88	80	66	51	38	26	14	10	5	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002168 (EXTENSION OF DEP. 002233)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-07-008-09E	48000	80	9600	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		9600		

**DEPOSIT #002169 (EXTENSION OF DEP. 002233)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-07-008-09E	18000	90	1800	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		1800		

**EXPOSURE INFORMATION**

EXPOSURE #: GM224 (NW-07-008-09E) VISITED: 79/06  
EXPOSURE TYPE: BULLDOZER TEST PIT LAND USE: GARBAGE DUMP-AUTHORIZED, ACTIVE  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.0 METRES QUALITY: HIGH  
MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL  
COMMENT: GARBAGE TRENCH  
SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: 1.5 M.  
LITHOLOGY: 70% LIMESTONE 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 07 008 09E GM224 A	90	69	57	48	40	31	22	15	10	4	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002170 (BOULDER STREWN SANDPLAIN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #002171****(NO ECONOMIC AGGREGATE RESERVES PROVEN)****EXPOSURE INFORMATION****EXPOSURE #:** GB122 (NW-18-008-09E)  
**EXPOSURE TYPE:** BACKHOE TEST PIT**VISITED:** 79/07**LAND USE:** PIT NOT IN USE (COMMONLY REVEGETATED)  
**SURROUNDING LAND USE:** HIGHWAY, ROADWAY, RAILWAY  
**QUALITY:** MEDIUM LOW  
**MATERIAL DESCRIPTION:** SANDY FINE PEBBLE GRAVEL  
**COMMENT:** BEACH**ECONOMIC THICKNESS:** 1.5 METRES**SECTION:** A **SECTION HEIGHT:** 1.5 M. **DEPTH TO WATER TABLE:** 1.5 M.  
**LITHOLOGY:** 70% LIMESTONE 30% GENERAL PRECAMBRIAN  
**DELETERIOUS:** CARBONATE INCRUSTATION  
**MATERIAL AT BASE:**  
**SEE SIEVE ANALYSIS****SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 18 008 09E GB12296	95	93	88	83	78	68	38	1	SPARSE		

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002172 (PREDOMINANTLY SAND)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002173 (BOULDER STREWN SANDPLAIN)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002174 (VERY SANDY-BORROW PITS)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002175 (VERY SANDY-DUNE COVERED)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002176 (VERY SANDY-DUNE COVERED)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002177 (BOULDER STREWN SANDPLAIN)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002178**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**



**DEPOSIT #002179 (BOULDERS IN BASE)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW-04-008-09E	117600	0	117600	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		117600		

**EXPOSURE INFORMATION**

EXPOSURE #: GM820 (SW-04-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: BEACH

ECONOMIC THICKNESS: 2.4 METRES

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SILT  
SEE SIEVE ANALYSIS

EXPOSURE #: GM821 (SW-04-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

ECONOMIC THICKNESS: 3.3 METRES

SECTION: A SECTION HEIGHT: 3.3 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE:  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM822 (SW-04-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: BEACH

ECONOMIC THICKNESS: 1.6 METRES

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
NO CHANNEL SAMPLE TAKEN

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 04 008 09E GM820 A	100	98	93	83	66	40	15	10	3	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002180 (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002181 (UNTESTED-LIKELY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002182 (SAND-DUNE COVERED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002183 (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002184A (BOULDER STREWN SANDPLAIN)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM740 (SE-14-008-09E) VISITED: 85/06  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLY GRAVEL WITH BOULDERS

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE:

SEE SIEVE ANALYSIS

EXPOSURE #: GM742 (NW-16-008-10E) VISITED: 85/06  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 5.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM755 (NW-12-008-09E) VISITED: 85/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 1.5 METRES QUALITY: LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM759 (NE-36-007-09E) VISITED: 85/07  
EXPOSURE TYPE: BULLDOZER TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.0 METRES QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM801 (SW-12-008-09E) VISITED: 85/09  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.5 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OCC.COBBLE  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM807 (NE-01-008-09E) VISITED: 85/09  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 1.0 METRES QUALITY: LOW  
MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL OVER SAND  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM808 (NE-01-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.3 METRES

VISITED: 85/09

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: CRS. SAND AND GRANULES OCC.  
COBBLES

COMMENT: SPARSE SURFACE BOULDERS

SECTION: A SECTION HEIGHT: 4.3 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM818 (NW-31-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.9 METRES

VISITED: 85/09

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

EXPOSURE #: GM947 (SW-06-008-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 86/10

LAND USE: HIGHWAY, ROADWAY, RAILWAY

SURROUNDING LAND USE: FOREST NATURAL

QUALITY:

MATERIAL DESCRIPTION: SAND AND BOULDERS OVER SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 14 008 09E GM740 A	97	86	70	56	39	22	11	5	3	2	ABUNDANT
NW 16 008 10E GM742 A	94	86	74	62	48	35	24	19	18	17	ABUNDANT
NW 12 008 09E GM755 A	99	98	92	74	48	21	10	6	3	2	ABUNDANT
NE 36 007 09E GM759 A	99	95	83	70	60	51	41	21	6	3	ABUNDANT
SW 12 008 09E GM801 A	92	86	76	71	63	44	23	5	3	1	ABUNDANT
NE 01 008 09E GM807 A	100	97	97	95	93	77	42	9	2	1	ABUNDANT
NW 31 007 09E GM818 A	97	86	73	59	47	31	19	9	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002184B (OUTWASH)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-01-008-09E	115500	0	115500	CROWN(PROVINCIAL)/CROWN	
NW-01-008-09E	241500	0	241500	CROWN(PROVINCIAL)/CROWN	
SE-12-008-09E	80500	0	80500	CROWN(PROVINCIAL)/CROWN	
SW-12-008-09E	483000	0	483000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			920500		

**EXPOSURE INFORMATION****EXPOSURE #:** GM802 (SW-12-008-09E)**VISITED:** 85/09**EXPOSURE TYPE:** BACKHOE TEST PIT**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** FOREST NATURAL**ECONOMIC THICKNESS:** 4.5 METRES**QUALITY:** MEDIUM**MATERIAL DESCRIPTION:** SANDY, SILTY COBBLY PEBBLE GRAVEL**COMMENT:** NONE**SECTION:** A    **SECTION HEIGHT:** 4.5 M.    **DEPTH TO WATER TABLE:** -M.**LITHOLOGY:** 70% GENERAL CARBONATES    30% GENERAL PRECAMBRIAN**DELETERIOUS:** CARBONATE INCRUSTATION**MATERIAL AT BASE:** SAME AS IN PIT WALL**SEE SIEVE ANALYSIS****EXPOSURE #:** GM803 (SW-12-008-09E)**VISITED:** 85/09**EXPOSURE TYPE:** BACKHOE TEST PIT**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** FOREST NATURAL**ECONOMIC THICKNESS:** 1.0 METRES**QUALITY:** MEDIUM LOW**MATERIAL DESCRIPTION:** BOULDERS OVER SANDY PEBBLE GRAVEL**COMMENT:** NONE**SECTION:** A    **SECTION HEIGHT:** 4.0 M.    **DEPTH TO WATER TABLE:** -M.**LITHOLOGY:** 70% GENERAL CARBONATES    30% GENERAL PRECAMBRIAN**DELETERIOUS:** CARBONATE INCRUSTATION**MATERIAL AT BASE:** SAND AND GRAVEL**NO CHANNEL SAMPLE TAKEN****EXPOSURE #:** GM804 (SW-12-008-09E)**VISITED:** 85/09**EXPOSURE TYPE:** BACKHOE TEST PIT**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** FOREST NATURAL**ECONOMIC THICKNESS:** 4.5 METRES**QUALITY:** MEDIUM HIGH**MATERIAL DESCRIPTION:** BOULDERS & COBBLE OVER SPG**COMMENT:** NONE**SECTION:** A    **SECTION HEIGHT:** 4.5 M.    **DEPTH TO WATER TABLE:** -M.**LITHOLOGY:** 70% GENERAL CARBONATES    30% GENERAL PRECAMBRIAN**DELETERIOUS:** CARBONATE INCRUSTATION**MATERIAL AT BASE:** SAME AS IN PIT WALL**NO CHANNEL SAMPLE TAKEN**

EXPOSURE #: GM805 (SW-12-008-09E) VISITED: 85/09  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 4.5 METRES QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: FEW BOULDERS + COBBLES OVER SPG  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM806 (SW-12-008-09E) VISITED: 85/09  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 4.7 METRES QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: BOULDERY COARSE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 4.7 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM809 (NE-01-008-09E) VISITED: 85/09  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.0 METRES QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: SAND OVER COBBLY COARSE PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND AND GRAVEL  
 NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM810 (NW-01-008-09E) VISITED: 85/09  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
 OCC. BOULDER  
 COMMENT: 1 M. SAND LAYER  
 SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM811 (SW-12-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.5 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH BOULDERS

COMMENT: BEACH OVER GLACIOFLUVIAL

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 12 008 09E GM802 A	94	79	68	60	48	32	21	12	7	3	ABUNDANT
NW 01 008 09E GM810 A	79	71	64	54	46	34	23	11	4	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002184C (OUTWASH)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-36-007-09E	980000	0	980000	CROWN(PROVINCIAL)/CROWN	
SE-01-008-09E	460000	0	460000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			1440000		

#### EXPOSURE INFORMATION

EXPOSURE #: GM812 (NE-36-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 4.5 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: COBBLE LAYER AT 2 M.

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM813 (SE-01-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 4.5 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM814 (SE-01-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.5 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER  
SD. TILL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM815 (NE-36-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 4.5 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OVER SD. TILL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 4.5 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM816 (NE-36-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 4.5 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN



EXPOSURE #: GM817 (NE-36-007-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 4.0 METRES

VISITED: 85/09  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY COARSE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 36 007 09E GM812 A	93	89	83	74	63	43	20	5	2	1	ABUNDANT
SE 01 008 09E GM814 A	99	95	87	79	69	55	36	13	4	2	ABUNDANT
NE 36 007 09E GM815 A	99	91	83	74	60	41	23	9	3	2	ABUNDANT
NE 36 007 09E GM817 A	83	71	61	51	41	26	15	9	5	3	ABUNDANT
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

#### DEPOSIT #002184D

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-12-008-09E	54000	40	32400	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		32400		

#### EXPOSURE INFORMATION

EXPOSURE #: GM800 (NE-12-008-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.0 METRES

VISITED: 85/09  
LAND USE: HIGHWAY,ROADWAY,RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: HIGH  
MATERIAL DESCRIPTION: BOULDERY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

DEPOSIT #002184E (BOULDER STREWN SANDPLAIN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM741 (NW-18-008-10E)

EXPOSURE TYPE: BORROW PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 85/06

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: BOULDER LAG

SECTION: A SECTION HEIGHT: 9.0 M. DEPTH TO WATER TABLE: 8.5 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 18 008 10E GM741 A	97	90	85	71	28	13	4	2	1	1	ABUNDANT
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002185**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-13-008-09E	20000	90	2000	CROWN(PROVINCIAL)/CROWN	
SE-13-008-09E	90000	70	27000	CROWN(PROVINCIAL)/CROWN	
NE-18-008-10E	14000	99	140	CROWN(PROVINCIAL)/CROWN	
NW-18-008-10E	88000	20	70400	CROWN(PROVINCIAL)/CROWN	
SE-18-008-10E	98000	60	39200	CROWN(PROVINCIAL)/CROWN	
SW-18-008-10E	106000	10	95400	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			234140		

**EXPOSURE INFORMATION**

EXPOSURE #: GM739 (NE-13-008-09E)

EXPOSURE TYPE: BORROW PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 85/06

LAND USE: HIGHWAY,ROADWAY,RAILWAY

SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY PEBBLY GRAVEL

COMMENT: LARGE SURFACE BOULDERS

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 75% GENERAL CARBONATES 25% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 13 008 09E GM739 A	99	92	70	57	42	31	21	12	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002186 (PREDOMINANTLY SAND)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-36-007-09E	7500	90	750	CROWN(PROVINCIAL)/CROWN	
SE-36-007-09E	19500	90	1950	CROWN(PROVINCIAL)/CROWN	
NW-30-007-10E	87000	0	87000	CROWN(PROVINCIAL)/CROWN	
SW-31-007-10E	111000	0	111000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			200700		

**EXPOSURE INFORMATION**

EXPOSURE #: GM758 (NE-36-007-09E) VISITED: 85/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.3 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 1.3 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: TILL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM819 (SW-31-007-10E) VISITED: 85/09  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.4 METRES QUALITY: LOW  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: VERY SANDY  
 SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: TILL  
 NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM945 (NW-30-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.2 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: MED.SD.VERY PEBBLY OVER SDY.  
COB.PEB.GR

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.6 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAND AND GRAVEL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM946 (NW-30-007-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 86/10  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: MED.SAND WITH SDY.PEBBLE GRAV.  
LAYERS

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NE 36 007 09E GM758 A	94	87	82	73	63	47	19	5	2	1	ABUNDANT
NW 30 007 10E GM945 A	100	92	85	76	67	52	32	16	7	4	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002187 (UNTESTED-VERY SWAMPY)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002188A (UNTESTED-VERY SWAMPY)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002188B (UNTESTED-VERY SWAMPY)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002189A (OUTWASH FAN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002189B (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW-16-008-11E	9600	0	9600	CROWN(PROVINCIAL)/CROWN	
NW-17-008-11E	46800	60	18720	CROWN(PROVINCIAL)/CROWN	
SE-17-008-11E	105600	70	31680	CROWN(PROVINCIAL)/CROWN	
SW-17-008-11E	63600	40	38160	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			98160		

**EXPOSURE INFORMATION**

EXPOSURE #: GM744 (SE-17-008-11E)

VISITED: 85/06

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: SURFACE EASEMENT OTHER THAN ROADWAY

ECONOMIC THICKNESS: 1.0 METRES

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM795 (SE-17-008-11E)

VISITED: 85/09

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.3 METRES

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SAND OVER SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.3 M. DEPTH TO WATER TABLE: 2.3 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
SE 17 008 11E GM744 A	94	73	55	36	28	25	24	21	19	18	ABUNDANT	
SE 17 008 11E GM795 A	92	86	72	60	48	31	19	9	3	2	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002189C (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-09-008-11E	506000	0	506000	CROWN(PROVINCIAL)/CROWN	
NW-09-008-11E	30800	0	30800	CROWN(PROVINCIAL)/CROWN	
NW-10-008-11E	6600	0	6600	CROWN(PROVINCIAL)/CROWN	
SE-16-008-11E	92400	0	92400	CROWN(PROVINCIAL)/CROWN	
SW-16-008-11E	89000	0	89000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			724800		

**EXPOSURE INFORMATION**

EXPOSURE #: GM793 (SE-16-008-11E)

VISITED: 85/09

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: HIGHWAY, ROADWAY, RAILWAY

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.3 METRES

QUALITY: HIGH

MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.3 M. DEPTH TO WATER TABLE: 2.3 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM794 (NE-09-008-11E)

VISITED: 85/09

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: HIGHWAY, ROADWAY, RAILWAY

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 3.0 METRES

QUALITY: HIGH

MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL

COMMENT: MINOR SD ABOVE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM796 (NW-10-008-11E)

VISITED: 85/09

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: HIGHWAY, ROADWAY, RAILWAY

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.7 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: 2.0 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM797 (SW-16-008-11E)  
 EXPOSURE TYPE: BACKHOE TEST PIT  
 ECONOMIC THICKNESS: 1.3 METRES

VISITED: 85/09  
 LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: FOREST NATURAL  
 QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SAND OVER SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: 2.0 M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		OVERSIZE
SE 16 008 11E GM793 A	91	74	57	45	35	21	9	5	2	1		ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002190 (VERY SWAMPY)  
 (NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002191 (VERY SANDY)  
 (NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002192 (SOME DUNE COVER)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-31-007-11E	186000	0	186000	CROWN(PROVINCIAL)/CROWN	
NW-31-007-11E	56000	0	56000	CROWN(PROVINCIAL)/CROWN	
SE-31-007-11E	226000	30	158200	CROWN(PROVINCIAL)/CROWN	
NE-32-007-11E	24000	0	24000	CROWN(PROVINCIAL)/CROWN	
NW-32-007-11E	174000	20	139200	CROWN(PROVINCIAL)/CROWN	
SE-32-007-11E	162000	0	162000	CROWN(PROVINCIAL)/CROWN	
SW-32-007-11E	38000	20	30400	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			755800		

**EXPOSURE INFORMATION**

EXPOSURE #: GM777 (SE-31-007-11E) VISITED: 85/08  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT TEMPORARY USE  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.5 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: 2.5 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM778 (NW-32-007-11E) VISITED: 85/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL SOME COBBLES  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE:  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 31 007 11E GM777 A	90	80	68	56	47	36	15	3	1	1	ABUNDANT
NW 32 007 11E GM778 A	95	88	74	67	59	47	33	10	3	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002193 (UNTESTED-VERY SWAMPY)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002194 (TESTED BY HWY-VERY SANDY)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002195A (OUTWASH FAN)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**EXPOSURE INFORMATION**

EXPOSURE #: GM787 (NE-36-007-11E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 85/09

LAND USE: HIGHWAY, ROADWAY, RAILWAY  
 SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NE 36 007 11E GM787 A	94	89	81	65	50	35	27	17	6	2	ABUNDANT
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002195B (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-02-008-11E	106000	70	31800	CROWN(PROVINCIAL)/CROWN	
NW-02-008-11E	584000	80	116800	CROWN(PROVINCIAL)/CROWN	
SE-02-008-11E	292000	90	29200	CROWN(PROVINCIAL)/CROWN	
SW-02-008-11E	6000	90	600	CROWN(PROVINCIAL)/CROWN	
NE-03-008-11E	22000	0	22000	CROWN(PROVINCIAL)/CROWN	
SE-10-008-11E	250000	0	250000	CROWN(PROVINCIAL)/CROWN	
SW-11-008-11E	58000	0	58000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			508400		

**EXPOSURE INFORMATION**

EXPOSURE #: GM789 (NW-02-008-11E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.2 METRES

VISITED: 85/09

LAND USE: HIGHWAY, ROADWAY, RAILWAY  
 SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.2 M. DEPTH TO WATER TABLE: 2.2 M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM790 (NW-02-008-11E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.2 METRES

VISITED: 85/09  
LAND USE: HIGHWAY,ROADWAY,RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SAND OVER FINE PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.2 M. DEPTH TO WATER TABLE: 2.2 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM791 (SE-10-008-11E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.8 METRES

VISITED: 85/09  
LAND USE: HIGHWAY,ROADWAY,RAILWAY  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SAND OVER SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.8 M. DEPTH TO WATER TABLE: 2.8 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM792 (SE-10-008-11E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.3 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SAND OVER SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.4 M. DEPTH TO WATER TABLE: 2.4 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 02 008 11E GM789 A	98	89	79	70	62	41	15	6	3	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002195C (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-007-11E	118000	95	5900	CROWN(PROVINCIAL)/CROWN	
SE-02-008-11E	92000	60	36800	CROWN(PROVINCIAL)/CROWN	
SW-02-008-11E	8000	0	8000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			50700		

**DEPOSIT #002195D (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-01-008-11E	288000	70	86400	CROWN(PROVINCIAL)/CROWN	
SW-06-008-12E	9000	0	9000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			95400		

**EXPOSURE INFORMATION**

EXPOSURE #: GM735 (SE-01-008-11E)

VISITED: 85/06

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: ACTIVE PIT

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 4.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: SANDY AREAS

SECTION: A SECTION HEIGHT: 4.0 M.

DEPTH TO WATER TABLE: 4.0 M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 01 008 11E GM735 A	94	84	60	43	26	16	8	3	1	0	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002195E (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-01-008-11E	32000	0	32000	CROWN(PROVINCIAL)/CROWN	
SE-12-008-11E	78000	99	780	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			32780		

**EXPOSURE INFORMATION**

EXPOSURE #: GM788 (NE-01-008-11E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 85/09

LAND USE: HIGHWAY, ROADWAY, RAILWAY  
 SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL FINING TO SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 3.5 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 01 008 11E GM788 A	100	95	79	60	48	38	32	20	5	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002195F (OUTWASH FAN)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002196A (HWY#1 IS ON RIDGE)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002196B (HWY#1 IS ON RIDGE)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002197 (VERY SANDY-DUNE COVER)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002198 (VERY SWAMPY-LIKELY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002199A (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-29-007-12E	57000	20	45600	CROWN(PROVINCIAL)/CROWN	
NW-29-007-12E	60000	0	60000	CROWN(PROVINCIAL)/CROWN	
SW-32-007-12E	73500	0	73500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			179100		

**EXPOSURE INFORMATION**

EXPOSURE #: GM786 (NW-29-007-12E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 85/09

LAND USE: TIMBER AREA

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
OVER SAND

COMMENT: LINEAR DEPRESSION

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

**SEE SIEVE ANALYSIS**

SECTION: B SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND AND GRAVEL

**NO CHANNEL SAMPLE TAKEN**

SECTION: C SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

**NO CHANNEL SAMPLE TAKEN**

SECTION: D SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

**NO CHANNEL SAMPLE TAKEN****SIEVE ANALYSIS**

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 29 007 12E GM786 A	95	82	65	53	43	33	16	4	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002199B (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-21-007-12E	9000	0	9000	CROWN(PROVINCIAL)/CROWN	
NW-22-007-12E	3000	0	3000	CROWN(PROVINCIAL)/CROWN	
NW-28-007-12E	1500	0	1500	CROWN(PROVINCIAL)/CROWN	
SE-28-007-12E	16500	0	16500	CROWN(PROVINCIAL)/CROWN	
SW-28-007-12E	226000	0	226000	CROWN(PROVINCIAL)/CROWN	
NE-29-007-12E	90000	0	90000	CROWN(PROVINCIAL)/CROWN	
SE-29-007-12E	1500	0	1500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			347500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM752 (SW-28-007-12E)

EXPOSURE TYPE: HAND DUG HOLE

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 85/07

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE:

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM785 (SW-28-007-12E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 85/09

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: BOULDERS AND COBBLES OVER SFPG

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 28 007 12E GM785 A	96	91	89	82	69	37	11	4	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #002851 (GLACIOFLUVIAL-PRED.SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002852 (UNTESTED)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002853A (UNTESTED)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002853B (UNTESTED)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #002854 (UNTESTED)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002855 (GLACIOFLUVIAL-PREDOMINANTLY SAND)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #002856 (GLACIOFLUVIAL-PREDOMINANTLY SAND)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #002857**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-05-012-09E	157500	0	157500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		157500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM653 (SE-05-012-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/06

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 05 012 09E GM653 A	99	96	87	73	52	32	22	9	3	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002858**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-04-012-09E	10000	30	7000	CROWN(PROVINCIAL)/CROWN	
NW-04-012-09E	24000	30	16800	CROWN(PROVINCIAL)/CROWN	
SE-09-012-09E	62000	30	43400	CROWN(PROVINCIAL)/CROWN	
SW-09-012-09E	4000	0	4000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		71200		

**EXPOSURE INFORMATION**

EXPOSURE #: GM652 (SE-09-012-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/06

LAND USE: SURFACE EASEMENT OTHER THAN ROADWAY

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 09 012 09E GM652 A	99	97	91	77	61	45	26	8	2		SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002859 (UNTESTED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002860 (ESSENTIALLY DEPLETED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-18-012-09E	117000	90	11700	CROWN(MUNICIPAL)/CROWN	
	DEPOSIT RESERVES		11700		

**DEPOSIT #002861 (GLACIOFLUVIAL-PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002862 (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002863 (UNTESTED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002864 (UNTESTED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**DEPOSIT #002865 (VERY SANDY TO SOUTH)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-22-012-09E	166500	0	166500	CROWN(PROVINCIAL)/CROWN	
SW-27-012-09E	34500	0	34500	PRIVATE/PRIVATE	
DEPOSIT RESERVES			201000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM651 (SW-27-012-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/06

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.5 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 27 012 09E GM651 A	100	99	96	90	76	60	35	5	2	0	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002867 (ESSENTIALLY DEPLETED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-20-012-09E	58000	95	2900	CROWN(PROVINCIAL)/CROWN	PRIVATE/PRIVATE
NW-28-012-09E	6000	10	5400	PRIVATE/CROWN	
NE-29-012-09E	78000	85	11700	CROWN(PROVINCIAL)/CROWN	
SE-29-012-09E	224000	90	22400	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			42400		

**EXPOSURE INFORMATION**

EXPOSURE #: GM544 (SE-29-012-09E)

VISITED: 83/06

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: GARBAGE DUMP-AUTHORIZED, ACTIVE

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: BOULDERS

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

EXPOSURE #: GM625 (SE-29-012-09E)

VISITED: 84/05

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 3.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE GRAVEL WITH COBBLES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 60% GENERAL CARBONATES

40% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 29 012 09E GM544 A	98	94	88	79	69	50	21	5	2	1	ABUNDANT
SE 29 012 09E GM625 A	96	82	69	55	42	28	16	8	4	3	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002868**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-27-012-09E	30000	0	30000	PRIVATE/PRIVATE	
NE-28-012-09E	117000	90	11700	CROWN(MUNICIPAL)/CROWN	
NW-28-012-09E	46500	30	32550	PRIVATE/CROWN	
	DEPOSIT RESERVES		74250		

**EXPOSURE INFORMATION**

EXPOSURE #: GM650 (NW-27-012-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 84/06

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
NW 27 012 09E GM650 A	93	81	72	60	44	34	28	12	1	1	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002869 (UNTESTED)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002870A**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW-27-012-09E	25500	0	25500	PRIVATE/PRIVATE	
SE-28-012-09E	3000	0	3000	PRIVATE/CROWN	PRIVATE/PRIVATE
DEPOSIT RESERVES		28500			

**EXPOSURE INFORMATION**

EXPOSURE #: GM649 (SE-28-012-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.8 METRES

VISITED: 84/06

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 60% GENERAL CARBONATES

40% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 28 012 09E GM649 A	100	93	86	76	59	42	26	15	4	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002870B**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-22-012-09E	54000	0	54000	CROWN(PROVINCIAL)/CROWN	
SE-27-012-09E	7500	0	7500	CROWN(PROVINCIAL)/CROWN	
SW-27-012-09E	40500	0	40500	PRIVATE/PRIVATE	
DEPOSIT RESERVES			102000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM647 (SW-27-012-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/06

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLY GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.8 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 27 012 09E GM647 A	96	90	82	73	63	52	37	17	1	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002870C**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-23-012-09E	30000	10	27000	CROWN(PROVINCIAL)/CROWN	
NW-23-012-09E	120000	10	108000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			135000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM646 (NE-23-012-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/06

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLY GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM648 (NE-23-012-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/06

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: SAMPLE OF TILL ONLY

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY:

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: TILL

NO CHANNEL SAMPLE TAKEN

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
NE 23 012 09E GM646 A	95	86	80	74	62	44	23	10	4	2	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002871A (PREDOMINANTLY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM586 (NW-36-012-09E) VISITED: 83/07

EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE (COMMONLY REVEGETATED)

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: LOW

MATERIAL DESCRIPTION: COARSE PEBBLY SAND

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: 2.5 M.

LITHOLOGY: 80% GENERAL CARBONATES

20% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM639 (NW-25-012-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 84/06  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM640 (NE-23-012-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.5 METRES

VISITED: 84/06  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 50% GENERAL PRECAMBRIAN 50% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING											OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		
NW 36 012 09E GM586 A	97	83	72	66	60	52	41	13	5	3	ABUNDANT	
NW 25 012 09E GM639 A	95	80	57	40	27	17	10	5	3	2	ABUNDANT	
NE 23 012 09E GM640 A	97	93	86	77	61	41	27	14	3	2	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002871B (SG FINING TO THE SOUTH)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-34-012-09E	2370000	99	23700	CROWN(PROVINCIAL)/CROWN	
SE-34-012-09E	840000	45	462000	CROWN(PROVINCIAL)/CROWN	
NE-35-012-09E	1290000	50	645000	CROWN(PROVINCIAL)/CROWN	
NW-35-012-09E	3462000	90	346200	CROWN(PROVINCIAL)/CROWN	
SW-35-012-09E	342000	30	239400	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			1716300		

**EXPOSURE INFORMATION**

EXPOSURE #: GM570 (SW-35-012-09E)

VISITED: 83/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT TEMPORARY USE

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 7.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COARSE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 7.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 80% GENERAL PRECAMBRIAN

20% GENERAL CARBONATES

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND AND GRAVEL

SEE SIEVE ANALYSIS

SECTION: B SECTION HEIGHT: 9.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 80% GENERAL PRECAMBRIAN

20% GENERAL CARBONATES

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

SECTION: C SECTION HEIGHT: 4.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 80% GENERAL PRECAMBRIAN

20% GENERAL CARBONATES

DELETERIOUS:

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM589 (NE-35-012-09E)

VISITED: 83/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: ACTIVE PIT

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 9.0 METRES

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: HIGHWAY'S PIT

SECTION: A SECTION HEIGHT: 9.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 75% GENERAL PRECAMBRIAN

25% GENERAL CARBONATES

DELETERIOUS:

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM599 (SE-34-012-09E)

VISITED: 83/08

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT TEMPORARY USE

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 5.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 6.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 80% GENERAL PRECAMBRIAN

20% GENERAL CARBONATES

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM600 (NW-35-012-09E) VISITED: 83/08  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: ACTIVE PIT  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 8.0 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 8.0 M. DEPTH TO WATER TABLE: 8.0 M.  
LITHOLOGY: 85% GENERAL PRECAMBRIAN 15% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

SECTION: B SECTION HEIGHT: 11.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 85% GENERAL PRECAMBRIAN 15% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM618 (NW-35-012-09E) VISITED: 83/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 7.0 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: FINE SAND/SDY COBBLY GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 7.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 75% GENERAL PRECAMBRIAN 25% GENERAL CARBONATES  
DELETERIOUS:

MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM619 (NE-34-012-09E) VISITED: 83/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 7.0 METRES QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SAND AND COBBLY PEBBLY SAND  
COMMENT: DEPLETED IN SECTION

SECTION: A SECTION HEIGHT: 7.0 M. DEPTH TO WATER TABLE: 7.0 M.  
LITHOLOGY: 75% GENERAL PRECAMBRIAN 25% GENERAL CARBONATES  
DELETERIOUS:

MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM630 (NE-35-012-09E) VISITED: 84/06  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.5 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 80% GENERAL PRECAMBRIAN 20% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND AND GRAVEL

SEE SIEVE ANALYSIS



EXPOSURE #: GM643 (SE-34-012-09E)  
 EXPOSURE TYPE: BACKHOE TEST PIT  
 ECONOMIC THICKNESS: 4.1 METRES

VISITED: 84/06  
 LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL  
 COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 65% GENERAL PRECAMBRIAN 35% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND AND GRAVEL  
 SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
SW 35 012 09E GM570 A	82	69	57	47	40	35	29	12	3	1	ABUNDANT	
SW 35 012 09E GM570 B	84	79	70	63	52	31	11	4	2	1	ABUNDANT	
SW 35 012 09E GM570 C	91	81	69	54	40	25	11	3	2	1	ABUNDANT	
NW 35 012 09E GM589 A	92	75	64	52	39	22	9	4	2	1	ABUNDANT	
SE 34 012 09E GM599 A	95	77	67	51	35	19	8	2	1	0	ABUNDANT	
NW 35 012 09E GM600 A	86	69	46	24	9	2	1	1	0	0	ABUNDANT	
NW 35 012 09E GM600 B	100	92	72	47	26	13	6	2	2	1	ABUNDANT	
NE 35 012 09E GM630 A	90	70	55	45	36	26	15	8	4	2	SPARSE	
SE 34 012 09E GM643 A	89	79	63	52	39	23	8	3	1	1	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002871C (GRAVEL RIDGE)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-012-09E	52000	0	52000	CROWN(PROVINCIAL)/CROWN	
NW-35-012-09E	72000	60	28800	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		80800		

#### EXPOSURE INFORMATION

EXPOSURE #: GM634 (NE-35-012-09E)  
 EXPOSURE TYPE: BACKHOE TEST PIT  
 ECONOMIC THICKNESS: 4.0 METRES

VISITED: 84/06  
 LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL  
 COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 80% GENERAL PRECAMBRIAN 20% GENERAL CARBONATES  
 DELETERIOUS :  
 MATERIAL AT BASE:  
 SEE SIEVE ANALYSIS

# SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 35 012 09E GM634 A	89	76	62	48	33	19	8	6	5	4	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

## DEPOSIT #002871D (GRAVEL RIDGE)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-35-012-09E	26000	60	10400	CROWN(PROVINCIAL)/CROWN	
SW-35-012-09E	18000	0	18000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			28400		

## DEPOSIT #002871E (GRAVEL RIDGE)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-27-012-09E	12000	0	12000	CROWN(PROVINCIAL)/CROWN	
SE-34-012-09E	150000	0	150000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			162000		

## DEPOSIT #002871F (GRAVEL RIDGE)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-25-012-09E	18000	0	18000	CROWN(PROVINCIAL)/CROWN	
NE-35-012-09E	124000	0	124000	CROWN(PROVINCIAL)/CROWN	
NW-35-012-09E	78000	30	53200	CROWN(PROVINCIAL)/CROWN	
SE-35-012-09E	266000	0	266000	CROWN(PROVINCIAL)/CROWN	
SW-36-012-09E	158000	20	124800	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			586000		

**EXPOSURE INFORMATION****EXPOSURE #:** GM543 (SE-35-012-09E)**VISITED:** 83/06**EXPOSURE TYPE:** ROAD CUT OR DITCH  
SECT**LAND USE:** HIGHWAY, ROADWAY, RAILWAY  
**SURROUNDING LAND USE:** FOREST NATURAL**ECONOMIC THICKNESS:** 2.5 METRES**QUALITY:** MEDIUM**MATERIAL DESCRIPTION:** SANDY COBBLY PEBBLE GRAVEL**COMMENT:** NONE**SECTION:** A **SECTION HEIGHT:** 2.5 M. **DEPTH TO WATER TABLE:** -M.**LITHOLOGY:** 80% GENERAL PRECAMBRIAN 20% GENERAL CARBONATES**DELETERIOUS:** WEATHERED PEBBLES**MATERIAL AT BASE:** SAME AS IN PIT WALL**SEE SIEVE ANALYSIS****EXPOSURE #:** GM587 (SW-36-012-09E)**VISITED:** 83/07**EXPOSURE TYPE:** BULLDOZER TEST PIT**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** FOREST NATURAL**ECONOMIC THICKNESS:** 2.0 METRES**QUALITY:** MEDIUM LOW**MATERIAL DESCRIPTION:** SANDY FINE PEBBLE GRAVEL**COMMENT:** NONE**SECTION:** A **SECTION HEIGHT:** 1.5 M. **DEPTH TO WATER TABLE:** -M.**LITHOLOGY:** 65% GENERAL PRECAMBRIAN 35% GENERAL CARBONATES**DELETERIOUS:** WEATHERED PEBBLES**MATERIAL AT BASE:** SAME AS IN PIT WALL**SEE SIEVE ANALYSIS****EXPOSURE #:** GM628 (SE-35-012-09E)**VISITED:** 84/06**EXPOSURE TYPE:** BACKHOE TEST PIT**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** TIMBER AREA**ECONOMIC THICKNESS:** 3.0 METRES**QUALITY:** MEDIUM HIGH**MATERIAL DESCRIPTION:** COBBLY COARSE PEBBLY GRAVEL**COMMENT:** NONE**SECTION:** A **SECTION HEIGHT:** 3.0 M. **DEPTH TO WATER TABLE:** -M.**LITHOLOGY:** 70% GENERAL PRECAMBRIAN 30% GENERAL CARBONATES**DELETERIOUS:** WEATHERED PEBBLES**MATERIAL AT BASE:** SAND**SEE SIEVE ANALYSIS****EXPOSURE #:** GM629 (SE-35-012-09E)**VISITED:** 84/06**EXPOSURE TYPE:** BACKHOE TEST PIT**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** TIMBER AREA**ECONOMIC THICKNESS:** 2.5 METRES**QUALITY:** MEDIUM HIGH**MATERIAL DESCRIPTION:** COBBLY COARSE PEBBLE GRAVEL**COMMENT:** NONE**SECTION:** A **SECTION HEIGHT:** 4.5 M. **DEPTH TO WATER TABLE:** -M.**LITHOLOGY:** 70% GENERAL PRECAMBRIAN 30% GENERAL CARBONATES**DELETERIOUS:** WEATHERED PEBBLES**MATERIAL AT BASE:** TILL**SEE SIEVE ANALYSIS**

EXPOSURE #: GM632 (NW-35-012-09E) VISITED: 84/06  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: TIMBER AREA  
 ECONOMIC THICKNESS: 3.0 METRES QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 80% GENERAL PRECAMBRIAN 20% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM635 (SW-36-012-09E) VISITED: 84/06  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: TIMBER AREA  
 ECONOMIC THICKNESS: 2.5 METRES QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH COBBLES  
 COMMENT: MGS 25CM  
 SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL PRECAMBRIAN 30% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM637 (NW-25-012-09E) VISITED: 84/06  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: TIMBER AREA  
 ECONOMIC THICKNESS: 4.5 METRES QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: SANDY COBBLY GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 65% GENERAL PRECAMBRIAN 35% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
SE 35 012 09E GM543 A	81	57	43	34	27	19	10	4	3	2	ABUNDANT	
SW 36 012 09E GM587 A	100	98	84	70	57	40	20	8	4	3	ABUNDANT	
SE 35 012 09E GM628 A	86	68	54	43	35	23	9	3	1	1	SPARSE	
SE 35 012 09E GM629 A	77	63	52	44	35	25	14	6	4	2	ABUNDANT	
NW 35 012 09E GM632 A	96	85	79	69	59	46	3	13	2	1	SPARSE	
SW 36 012 09E GM635 A	94	76	52	38	26	18	12	7	4	2	ABUNDANT	
NW 25 012 09E GM637 A	92	79	66	56	46	36	22	10	3	1	ABUNDANT	
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)												

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002871G**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-26-012-09E	182500	0	182500	CROWN(PROVINCIAL)/CROWN	
SE-35-012-09E	105000	0	105000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			287500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM644 (NE-26-012-09E) VISITED: 84/06  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLY GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 65% GENERAL PRECAMBRIAN 35% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: TILL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM645 (NE-26-012-09E) VISITED: 84/06  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 2.9 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 26 012 09E GM644 A	92	85	75	68	61	26	4	1	ABUNDANT		
NE 26 012 09E GM645 A	87	76	68	61	54	25	4	7	1 ABUNDANT		

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

# DEPOSIT #002871H

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-25-012-09E	330000	20	264000	CROWN(PROVINCIAL)/CROWN	
NE-26-012-09E	345000	0	345000	CROWN(PROVINCIAL)/CROWN	
SE-35-012-09E	102000	0	102000	CROWN(PROVINCIAL)/CROWN	
SW-36-012-09E	63000	0	63000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			774000		

## EXPOSURE INFORMATION

EXPOSURE #: GM636 (SW-36-012-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/06  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

ECONOMIC THICKNESS: 3.0 METRES

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM638 (NW-25-012-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/06  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: NONE

ECONOMIC THICKNESS: 4.0 METRES

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

## SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 36 012 09E GM636 A	97	91	82	71	58	42	27	10	2	1	SPARSE
NW 25 012 09E GM638 A	100	98	93	85	70	50	27	8	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002871I (SMALL SG RIDGE-UNTESTED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-012-09E	16000	0	16000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		16000		

**DEPOSIT #002871J (BOWL-SHAPED DEPRESSION)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-012-09E	24000	0	24000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		24000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM633 (NE-35-012-09E)

VISITED: 84/06

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 4.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 75% GENERAL PRECAMBRIAN

25% GENERAL CARBONATES

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND AND GRAVEL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NE 35 012 09E GM633 A	83	73	64	55	46	33	15	6	3	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002871K (PREDOMINANTLY SAND)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002871L (GRAVEL RIDGE)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-012-09E	92500	20	74000	CROWN(PROVINCIAL)/CROWN	
SE-35-012-09E	2500	0	2500	CROWN(PROVINCIAL)/CROWN	
NW-36-012-09E	17500	99	175	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			76675		

**EXPOSURE INFORMATION**

EXPOSURE #: GM588 (NW-36-012-09E) VISITED: 83/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM631 (NE-35-012-09E) VISITED: 84/06  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL  
COMMENT: 2 SAMPLES 2M & 2M  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 80% GENERAL PRECAMBRIAN 20% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS \*NOTE : GM631A 0-2M. GM631B 2-4M.\*

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 36 012 09E GM588 A	87	73	63	54	45	35	22	8	2	1	ABUNDANT
NE 35 012 09E GM631 A	80	64	52	44	35	26	17	7	2	1	ABUNDANT
NE 35 012 09E GM631 B	97	94	89	76	61	49	36	17	1	0	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)



**EXPOSURE INFORMATION**

EXPOSURE #: GM588 (NW-36-012-09E) VISITED: 83/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM631 (NE-35-012-09E) VISITED: 84/06  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL  
COMMENT: 2 SAMPLES 2M & 2M  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 80% GENERAL PRECAMBRIAN 20% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS \*NOTE : GM631A 0-2M. GM631B 2-4M.\*

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 36 012 09E GM588 A	87	73	63	54	45	35	22	8	2	1	ABUNDANT
NE 35 012 09E GM631 A	80	64	52	44	35	26	17	7	2	1	ABUNDANT
NE 35 012 09E GM631 B	97	94	89	76	61	49	36	17	1	0	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002872**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-34-012-09E	5000	99	50	CROWN(PROVINCIAL)/CROWN	
NW-34-012-09E	102500	80	20500	PRIVATE/PRIVATE	
SW-34-012-09E	92500	40	55500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			76050		

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 34 012 09E GM596 A	100	96	88	79	66	42	13	3	3	2	ABUNDANT
NW 34 012 09E GM597 A	90	84	77	72	60	38	9	4	3	2	ABUNDANT
NW 34 012 09E GM598 A	100	92	71	45	30	21	14	9	5	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002873**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-26-012-09E	58000	0	58000	CROWN(PROVINCIAL)/CROWN	
NE-27-012-09E	50000	0	50000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		108000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM641 (NW-26-012-09E)

VISITED: 84/06

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 4.5 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 60% GENERAL PRECAMBRIAN

40% GENERAL CARBONATES

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM642 (NE-27-012-09E)

VISITED: 84/06

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL PRECAMBRIAN

30% GENERAL CARBONATES

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 26 012 09E GM641 A	100	94	80	70	60	42	20	8	4	2	SPARSE
NE 27 012 09E GM642 A	93	91	89	84	64	17	7	5	3	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002874**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-36-012-09E	49500	0	49500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		49500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM627 (NW-36-012-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.7 METRES

VISITED: 84/06

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.7 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 36 012 09E GM627 A	97	88	79	70	60	48	32	10	3	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002875**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-36-012-09E	64000	0	64000	CROWN(PROVINCIAL)/CROWN	
SW-36-012-09E	76000	0	76000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		140000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM627 (NW-36-012-09E)  
 EXPOSURE TYPE: BACKHOE TEST PIT  
 ECONOMIC THICKNESS: 1.7 METRES

VISITED: 84/06  
 LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
 COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.7 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
 DELETERIOUS: WEATHERED PEBBLES  
 MATERIAL AT BASE: SAND  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
NW 36 012 09E GM627 A	97	88	79	70	60	48	32	10	3	1	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002875**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-36-012-09E	64000	0	64000	CROWN(PROVINCIAL)/CROWN	
SW-36-012-09E	76000	0	76000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			140000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM626 (NW-36-012-09E)  
 EXPOSURE TYPE: BACKHOE TEST PIT  
 ECONOMIC THICKNESS: 3.5 METRES

VISITED: 84/05  
 LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: TIMBER AREA  
 QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: SANDY COARSE COBBLE GRAVEL  
 COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 65% GENERAL PRECAMBRIAN 35% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
NW 36 012 09E GM626 A	81	65	56	46	37	27	13	4	2	1	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 32 012 10E GM550 A	100	92	72	59	40	21	9	4	3	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002879 (UNTESTED-VERY SMALL)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002880 (PREDOMINANTLY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002881**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-33-012-10E	120000	20	96000	CROWN(PROVINCIAL)/CROWN	
NW-33-012-10E	72500	0	72500	CROWN(PROVINCIAL)/CROWN	
NE-34-012-10E	20000	0	20000	CROWN(PROVINCIAL)/CROWN	
NW-34-012-10E	150000	20	120000	CROWN(PROVINCIAL)/CROWN	
SE-34-012-10E	85000	0	85000	CROWN(PROVINCIAL)/CROWN	
SW-34-012-10E	5000	0	5000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			398500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM549 (NW-34-012-10E) VISITED: 83/06  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM622 (NE-33-012-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.9 METRES

VISITED: 84/05  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH COBBLES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.9 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: ORGANIC CONTENT  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										#200	OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100			
NW 34 012 10E GM549 A	91	88	82	77	72	66	58	26	2	0	ABUNDANT	
NE 33 012 10E GM622 A	89	82	74	67	59	52	44	14	2	1	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #002882

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-32-012-10E	66000	0	66000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		66000		

#### EXPOSURE INFORMATION

EXPOSURE #: GM623 (NE-32-012-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.9 METRES

VISITED: 84/05  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH OCC. COBBLES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.9 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING											OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		
NE 32 012 10E GM623 A	97	82	59	46	37	31	26	11	2	1	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002883 (UNTESTED-ONE OLD SM.PIT)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-012-10E	61500	40	36900	PRIVATE/PRIVATE	
NW-35-012-10E	6000	10	5400	PRIVATE/PRIVATE	
DEPOSIT RESERVES			42300		

**DEPOSIT #002884 (GLACIOFLUVIAL-PREDOMINANTLY SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002885 (SMALL PIT FINE GRAVEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-12-012-10E	12000	10	10800	PRIVATE/PRIVATE	
SE-13-012-10E	31500	40	18900	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			29700		

**DEPOSIT #002886A (PREDOMINANTLY SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002886B  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002887 (OUTWASH SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)****DEPOSIT #002888A (VERY SANDY)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-19-012-13E	4500	0	4500	CROWN(PROVINCIAL)/CROWN	CROWN(MUNICIPAL)/CROWN
NW-19-012-13E	102000	40	61200	CROWN(PROVINCIAL)/CROWN	
SW-19-012-13E	87000	40	52200	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			117900		

**EXPOSURE INFORMATION**

EXPOSURE #: GM781 (NW-19-012-13E)

VISITED: 85/08

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.5 M.

DEPTH TO WATER TABLE: 1.5 M.

LITHOLOGY: 70% GENERAL PRECAMBRIAN

30% GENERAL CARBONATES

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

NO CHANNEL SAMPLE TAKEN

**SIEVE ANALYSIS****PERCENT PASSING**

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 19 012 13E GM781 A	99	97	90	80	72	52	22	7	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #002888B (FLANKS ROCK KNOLL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-19-012-13E	31500	0	31500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		31500		

**DEPOSIT #002889 (NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002890 (NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002891**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002892****DEPOSIT #002893**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #002894**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**DEPOSIT #003701 (UNTESTED-NO ACCESS)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003702 (GLACIOFLUVIAL-UNTESTED)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003703 (UNTESTED-VERY SWAMPY)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003704 (VERY SANDY-DUNE COVERED)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003705 (TESTED BY HWY-VERY SANDY)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003706 (OUTWASH CHANNEL-UNTESTED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-17-007-12E	195000	0	195000	CROWN(PROVINCIAL)/CROWN	
SE-17-007-12E	27500	0	27500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		222500		

**DEPOSIT #003707 (OUTWASH CHANNEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-19-007-12E	14000	0	14000	CROWN(PROVINCIAL)/CROWN	
NW-20-007-12E	106000	0	106000	CROWN(PROVINCIAL)/CROWN	
SW-29-007-12E	56000	0	56000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		176000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM784 (NW-20-007-12E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 4.0 METRES

VISITED: 85/09  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL

**SEE SIEVE ANALYSIS**

SECTION: B SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

**NO CHANNEL SAMPLE TAKEN**

SECTION: C SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND

**NO CHANNEL SAMPLE TAKEN**

SECTION: D SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND

**NO CHANNEL SAMPLE TAKEN**

SECTION: E SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: 1.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND

**NO CHANNEL SAMPLE TAKEN**

SECTION: F SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: 1.5 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND AND GRAVEL

**NO CHANNEL SAMPLE TAKEN**

SECTION: G SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: 1.5 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS:  
MATERIAL AT BASE: SAND

**NO CHANNEL SAMPLE TAKEN****SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 20 007 12E GM784 A	85	69	52	43	35	24	14	6	3	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003708 (OUTWASH CHANNEL-SMALL PIT)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-32-007-12E	84000	0	84000	CROWN(PROVINCIAL)/CROWN	
SW-32-007-12E	186000	5	176700	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		260700		

**DEPOSIT #003709**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-21-007-12E	244500	60	7800	CROWN(PROVINCIAL)/CROWN	
NW-21-007-12E	75000	60	30000	CROWN(PROVINCIAL)/CROWN	
SE-21-007-12E	168000	30	117600	CROWN(PROVINCIAL)/CROWN	
SW-21-007-12E	28500	0	28500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		273900		

**EXPOSURE INFORMATION**

EXPOSURE #: GM754 (SE-21-007-12E)

VISITED: 85/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: ACTIVE PIT

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M.

DEPTH TO WATER TABLE: 2.0 M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 21 007 12E GM754 A	93	83	77	66	51	22	10	8	7	4	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003710 (VERY SANDY-DUNE COVERED)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM753 (NE-29-007-12E)

VISITED: 85/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE (COMMONLY REVEGETATED)

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: LOW

MATERIAL DESCRIPTION: SAND WITH PEBBLE LAYERS

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.5 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE:

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 29 007 12E GM753 A	99	95	87	82	76	60	48	36	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003711 (VERY SANDY-DUNE COVERED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003712 (VERY SANDY-DUNE COVERED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003713 (VERY SANDY-DUNE COVERED)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003714A (UNTESTED-VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003714B (UNTESTED-VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003714C (UNTESTED-VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003715A (PR503 IS ON RIDGE)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003715B**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003716 (UNTESTED-VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003717 (UNTESTED-VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003718 (UNTESTED-NO ACCESS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003719 (PR503 IS ON RIDGE)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-05-007-14E	36000	0	36000	CROWN(PROVINCIAL)/CROWN	
SE-08-007-14E	65000	30	45500	CROWN(PROVINCIAL)/CROWN	
NE-09-007-14E	93000	70	27900	CROWN(PROVINCIAL)/CROWN	
NW-09-007-14E	40000	70	12000	CROWN(PROVINCIAL)/CROWN	
SW-09-007-14E	83000	70	24900	CROWN(PROVINCIAL)/CROWN	
NE-10-007-14E	21000	80	4200	CROWN(PROVINCIAL)/CROWN	
NW-10-007-14E	91000	40	54600	CROWN(PROVINCIAL)/CROWN	
SE-15-007-14E	50000	10	45000	CROWN(PROVINCIAL)/CROWN	
SW-15-007-14E	42000	60	16800	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			266900		

#### EXPOSURE INFORMATION

EXPOSURE #: GM745 (SE-08-007-14E) VISITED: 85/06  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.0 METRES QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 75% GENERAL CARBONATES 25% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND  
 SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 08 007 14E GM745 A	100	97	88	72	54	38	32	28	23	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003720 (UNTESTED-VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003721A (VERY SANDY-SWAMPY)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003721B (UNTESTED-SWAMPY)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003722A (UNTESTED-SWAMPY)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003722B (UNTESTED-SWAMPY)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003722C (UNTESTED-NO ACCESS)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003723 (GARBAGE PIT IS SAND)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003724A (UNTESTED-NO ACCESS)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003724B (UNTESTED-NO ACCESS)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003725 (VERY SANDY-SMALL PIT)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003726A (GLACIOFLUVIAL-WAVE MODIFIED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-10-008-14E	289500	50	144750	CROWN(PROVINCIAL)/CROWN	
NW-10-008-14E	52500	10	47250	CROWN(PROVINCIAL)/CROWN	
NE-11-008-14E	97500	0	97500	CROWN(PROVINCIAL)/CROWN	
NW-11-008-14E	118500	0	118500	CROWN(PROVINCIAL)/CROWN	
NW-14-008-14E	16500	20	13200	CROWN(PROVINCIAL)/CROWN	
SE-14-008-14E	67500	0	67500	CROWN(PROVINCIAL)/CROWN	
SW-14-008-14E	664500	70	199350	CROWN(PROVINCIAL)/CROWN	
NE-15-008-14E	72000	80	14400	CROWN(PROVINCIAL)/CROWN	
SE-15-008-14E	645000	40	387000	CROWN(PROVINCIAL)/CROWN	
SW-15-008-14E	1500	50	750	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			1090200		

**EXPOSURE INFORMATION**

EXPOSURE #: GM737 (SE-15-008-14E) VISITED: 85/06  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: ACTIVE PIT  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.5 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLY GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: 1.5 M.  
 LITHOLOGY: 75% GENERAL CARBONATES 25% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE:  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 15 008 14E GM737 A	100	97	91	84	73	61	42	8	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003726B (GLACIOFLUVIAL-WAVE MODIFIED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-14-008-14E	63000	0	63000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			63000		

**DEPOSIT #003727A (TRAIL FOLLOWS RIDGE)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-14-008-14E	93000	0	93000	CROWN(PROVINCIAL)/CROWN	
SW-14-008-14E	34500	0	34500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			127500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM738 (SE-14-008-14E)

VISITED: 85/06

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 75% GENERAL CARBONATES

25% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE:

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 14 008 14E GM738 A	100	100	95	88	75	64	51	19	4	3	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003727B (UNTESTED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-14-008-14E	76500	0	76500	CROWN(PROVINCIAL)/CROWN	
SW-14-008-14E	48000	0	48000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			124500		



**DEPOSIT #003728 (FLANKS ARE VERY SANDY)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-13-008-14E	16000	50	8000	CROWN(PROVINCIAL)/CROWN	
NE-14-008-14E	182000	0	182000	CROWN(PROVINCIAL)/CROWN	
SE-23-008-14E	448000	10	403200	CROWN(PROVINCIAL)/CROWN	
NE-24-008-14E	30000	0	30000	CROWN(PROVINCIAL)/CROWN	
NW-24-008-14E	280000	10	252000	CROWN(PROVINCIAL)/CROWN	
SW-24-008-14E	494000	70	148200	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			1023400		

**EXPOSURE INFORMATION**

EXPOSURE #: GM839 (SW-24-008-14E) VISITED: 86/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.0 M.  
 LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
 DELETERIOUS :  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 24 008 14E GM839 A	96	82	69	56	47	37	26	13	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003729**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-24-008-14E	4500	0	4500	CROWN(PROVINCIAL)/CROWN	
SE-24-008-14E	90000	0	90000	CROWN(PROVINCIAL)/CROWN	
SW-24-008-14E	90000	0	90000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			184500		

**DEPOSIT #003730A (MANY BORROW PITS)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-10-008-15E	155000	70	46500	CROWN(PROVINCIAL)/CROWN	
NE-11-008-15E	327500	80	65500	CROWN(PROVINCIAL)/CROWN	
NW-11-008-15E	752500	60	301000	CROWN(PROVINCIAL)/CROWN	
NE-13-008-15E	562500	30	393750	CROWN(PROVINCIAL)/CROWN	
NW-13-008-15E	5000	0	5000	CROWN(PROVINCIAL)/CROWN	
SE-13-008-15E	542500	80	108500	CROWN(PROVINCIAL)/CROWN	
SW-13-008-15E	590000	60	236000	CROWN(PROVINCIAL)/CROWN	
SE-14-008-15E	582500	50	291250	CROWN(PROVINCIAL)/CROWN	
SW-14-008-15E	115000	0	115000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			1562500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM840 (NE-11-008-15E)

EXPOSURE TYPE: BORROW PIT

ECONOMIC THICKNESS: 1.0 METRES

VISITED: 86/07

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: COBBLY PEBBLE GRAV.FINING DOWN  
TO SAND

COMMENT: 100% PRECAMBRIAN

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 99% GENERAL PRECAMBRIAN

DELETERIOUS :

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM841 (SE-14-008-15E)

EXPOSURE TYPE: BORROW PIT

ECONOMIC THICKNESS: 4.0 METRES

VISITED: 86/07

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 4.0 M.

LITHOLOGY: 95% GENERAL PRECAMBRIAN 5% GENERAL CARBONATES

DELETERIOUS :

MATERIAL AT BASE:

SEE SIEVE ANALYSIS

EXPOSURE #: GM842 (NE-11-008-15E) VISITED: 86/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT TEMPORARY USE  
 SURROUNDING LAND USE: HIGHWAY, ROADWAY, RAILWAY  
 ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
 COMMENT: NO OBSERVED CARBONATES  
 SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 99% GENERAL PRECAMBRIAN 1% GENERAL CARBONATES  
 DELETERIOUS: IRON OXIDE CONCRETIONS  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM844 (NE-10-008-15E) VISITED: 86/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE (COMMONLY REVEGETATED)  
 SURROUNDING LAND USE: HIGHWAY, ROADWAY, RAILWAY  
 ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
 COMMENT: 100% PRECAMBRIAN  
 SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 4.0 M.  
 LITHOLOGY: 99% GENERAL PRECAMBRIAN 1% GENERAL CARBONATES  
 DELETERIOUS: IRON OXIDE CONCRETIONS  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM845 (NE-13-008-15E) VISITED: 86/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE (COMMONLY REVEGETATED)  
 SURROUNDING LAND USE: HIGHWAY, ROADWAY, RAILWAY  
 ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: BOULDERY COBBLY SAND  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.5 M.  
 LITHOLOGY: 99% GENERAL PRECAMBRIAN 1% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND  
 NO CHANNEL SAMPLE TAKEN

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 11 008 15E GM840 A	93	82	78	73	66	55	34	14	6	2	ABUNDANT
NE 11 008 15E GM842 A	92	85	73	65	55	41	25	14	8	5	ABUNDANT
NE 10 008 15E GM844 A	92	83	70	59	44	31	16	8	5	3	ABUNDANT
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003730B (MANY BORROW PITS)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-10-008-15E	28500	80	5700	CROWN(PROVINCIAL)/CROWN	
SE-10-008-15E	54000	80	10800	CROWN(PROVINCIAL)/CROWN	
SW-10-008-15E	25500	10	22950	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			39450		

**EXPOSURE INFORMATION**

EXPOSURE #: GM843 (SE-10-008-15E)

VISITED: 86/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: HIGHWAY,ROADWAY,RAILWAY

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: PIT FLOOR IS CARB-RICH

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: 2.0 M.

LITHOLOGY: 99% GENERAL PRECAMBRIAN

1% GENERAL CARBONATES

DELETERIOUS:

MATERIAL AT BASE: TILL

NO CHANNEL SAMPLE TAKEN

**DEPOSIT #003731 (UNTESTED-NO ACCESS)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-13-008-14E	91500	0	91500	CROWN(PROVINCIAL)/CROWN	
NW-13-008-14E	13500	0	13500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			105000		

**DEPOSIT #003732A (NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003732B (NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003733 (NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003733B (NO ACCESS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003734 (VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003735 (VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003736A (HWY.TESTED-VERY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003736B (VERY SANDY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003737 (SAND POT. SG POCKETS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003738**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003739A**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003739B**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-36-008-10E	52500	0	52500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		52500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM776 (SE-36-008-10E)

EXPOSURE TYPE: DITCH OR ROAD CUT

ECONOMIC THICKNESS: 0.5 METRES

VISITED: 85/07

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLY GRAVEL

COMMENT: SITE ON A TRAIL

SECTION: A SECTION HEIGHT: 0.5 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM798 (SE-36-008-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.0 METRES

VISITED: 85/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SAND OVER SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: 2.5 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 36 008 10E GM776 A	95	85	67	60	54	43	20	4	2	1	ABUNDANT
SE 36 008 10E GM798 A	100	99	96	86	69	46	33	18	7	3	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #003739C (SAND)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003740 (SAND POT. SG POCKETS)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003741 (SAND MINOR SG POCKETS)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

#### EXPOSURE INFORMATION

EXPOSURE #: GM773 (NW-28-008-10E)  
EXPOSURE TYPE: HAND DUG HOLE  
ECONOMIC THICKNESS: 2.5 METRES

VISITED: 85/07  
LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM774 (NE-28-008-10E) VISITED: 85/07  
 EXPOSURE TYPE: BULLDOZER TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 2.5 METRES QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM799 (SE-33-008-10E) VISITED: 85/09  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.3 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL OVER  
 TILL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: TILL  
 SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 28 008 10E GM773 A	86	72	55	42	32	21	15	7	2	1	ABUNDANT
NE 28 008 10E GM774 A	97	91	66	56	48	40	32	12	2	0	SPARSE
SE 33 008 10E GM799 A	91	83	71	58	45	29	17	9	6	3	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #003742A  
 (NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003742B (ONE SMALL OLD PIT)  
 (NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003742C  
 (NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003743 (FIRE ROAD IS ON RIDGE)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-27-008-10E	4000	0	4000	CROWN(PROVINCIAL)/CROWN	
NW-27-008-10E	126000	40	75600	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		79600		

**EXPOSURE INFORMATION**

EXPOSURE #: GM775 (NW-27-008-10E) VISITED: 85/07  
EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.5 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 27 008 10E GM775 A	100	88	62	46	37	28	22	15	3	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003744A (VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003744B (NO ACCESS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003744C**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003745 (SD. POTENTIAL SG POCKETS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003746 (NO ACCESS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**DEPOSIT #003747 (SAND POTENTIAL SG POCKETS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003748A (SAND POTENTIAL SG POCKETS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003748B (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-26-008-09E	42000	90	4200	CROWN(PROVINCIAL)/CROWN	
NE-27-008-09E	116000	20	92800	CROWN(PROVINCIAL)/CROWN	
SE-34-008-09E	124000	90	12400	CROWN(PROVINCIAL)/CROWN	
SW-35-008-09E	12000	10	10800	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			120200		

**EXPOSURE INFORMATION**

EXPOSURE #: GM621 (SE-34-008-09E)

VISITED: 84/05

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT TEMPORARY USE

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLEY PEBBLY GRAVEL  
W/ BOU

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM750 (NW-26-008-09E)

VISITED: 85/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: TIMBER AREA

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE:

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 34 008 09E GM621 A	86	68	56	48	39	29	15	6	3	2	ABUNDANT
NW 26 008 09E GM750 A	100	95	82	72	62	54	47	36	22	21	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003748C (GLACIOFLUVIAL-HWY.TESTED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-27-008-09E	8000	0	8000	CROWN(PROVINCIAL)/CROWN	
NW-27-008-09E	46000	0	46000	CROWN(PROVINCIAL)/CROWN	
SE-27-008-09E	40000	0	40000	CROWN(PROVINCIAL)/CROWN	
SW-27-008-09E	44000	0	44000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			138000		

**DEPOSIT #003749A (ESSENTIALLY DEPLETED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-34-008-09E	64500	80	12900	CROWN(PROVINCIAL)/CROWN	
SE-34-008-09E	48500	99	465	CROWN(PROVINCIAL)/CROWN	
SW-35-008-09E	30000	80	6000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			19365		

**DEPOSIT #003749B (PLANTED AREA)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-26-008-09E	27000	0	27000	CROWN(PROVINCIAL)/CROWN	
SW-35-008-09E	31500	0	31500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			58500		

**DEPOSIT #003749C (SAND SPIT)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003750 (ESSENTIALLY DEPLETED-ACTIVE)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-26-008-09E	6000	50	3000	CROWN(PROVINCIAL)/CROWN	
NE-27-008-09E	72000	90	7200	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			10200		

**EXPOSURE INFORMATION**

EXPOSURE #: GM749 (NE-27-008-09E) VISITED: 85/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 3.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 3.0 M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 27 008 09E GM749 A	96	88	77	65	53	41	32	26	21	19	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003751 (TESTED BY HWY.)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-27-008-09E	19500	0	19500	CROWN(PROVINCIAL)/CROWN	
SW-34-008-09E	6000	0	6000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			25500		

**DEPOSIT #003752**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-31-008-10E	101000	60	40400	CROWN(PROVINCIAL)/CROWN	
SE-31-008-10E	16000	50	8000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			48400		

**EXPOSURE INFORMATION**

EXPOSURE #: GM771 (NE-31-008-10E)

VISITED: 85/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.5 M.

DEPTH TO WATER TABLE: 1.5 M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

EXPOSURE #: GM772 (SE-31-008-10E)

VISITED: 85/07

EXPOSURE TYPE: HAND DUG HOLE

LAND USE: HIGHWAY,ROADWAY,RAILWAY

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 0.6 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 0.6 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NE 31 008 10E GM771 A	90	76	58	46	35	20	10	6	3	2	ABUNDANT
SE 31 008 10E GM772 A	98	92	79	66	50	27	14	5	2	1	SPARSE
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003753 (OUTWASH CHANNEL-VERY SANDY)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-01-009-09E	24000	0	24000	CROWN(PROVINCIAL)/CROWN	
SE-01-009-09E	100500	0	100500	CROWN(PROVINCIAL)/CROWN	
SE-06-009-10E	30000	0	30000	CROWN(PROVINCIAL)/CROWN	
SW-06-009-10E	193500	0	193500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			348000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM980 (SW-06-009-10E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.0 METRES

VISITED: 87/08  
 LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 QUALITY: LOW  
 MATERIAL DESCRIPTION: SAND FEW PEBBLES  
 COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 1.5 M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM981 (SW-06-009-10E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 87/08  
 LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: PEBBLY COBBLY SAND WITH CLAY  
 POCKETS

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 1.5 M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 06 009 10E GM980 A	98	91	82	70	55	38	25	15	7	6	ABUNDANT
SW 06 009 10E GM981 A	95	84	73	63	55	46	37	22	6	4	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003754A (GLACIOFLUVIAL-SUPERCRETE)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-008-09E	6000	0	6000	CROWN(PROVINCIAL)/CROWN	
NW-36-008-09E	4000	0	4000	CROWN(PROVINCIAL)/CROWN	
NW-01-009-09E	886000	99	8860	CROWN(PROVINCIAL)/CROWN	
SE-01-009-09E	242000	99	2420	CROWN(PROVINCIAL)/CROWN	
SW-01-009-09E	1092000	99	10920	CROWN(PROVINCIAL)/CROWN	
NE-02-009-09E	7665000	60	3066000	CROWN(PROVINCIAL)/CROWN	
NW-02-009-09E	195000	60	78000	CROWN(PROVINCIAL)/CROWN	
SE-02-009-09E	2390000	99	23900	CROWN(PROVINCIAL)/CROWN	
SE-11-009-09E	675000	50	337500	CROWN(PROVINCIAL)/CROWN	
SW-12-009-09E	96000	99	960	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			3538560		

**EXPOSURE INFORMATION**

EXPOSURE #: GM751 (SE-11-009-09E) VISITED: 85/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SILT  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM770 (SW-01-009-09E) VISITED: 85/07  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: PIT TEMPORARY USE  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 3.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 3.0 M.  
 LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 11 009 09E GM751 A	98	89	79	71	59	44	32	27	24	22	ABUNDANT
SW 01 009 09E GM770 A	96	84	67	53	42	32	25	9	2	1	ABUNDANT
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003754B (GLACIOFLUVIAL-TROUT POND)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-10-009-09E	102500	99	1025	CROWN(PROVINCIAL)/CROWN	
NE-11-009-09E	177000	99	1770	CROWN(PROVINCIAL)/CROWN	
NW-11-009-09E	1462500	99	14625	CROWN(PROVINCIAL)/CROWN	
SW-11-009-09E	342500	99	3425	CROWN(PROVINCIAL)/CROWN	
SW-14-009-09E	48000	0	48000	CROWN(PROVINCIAL)/CROWN	
SE-15-009-09E	33000	0	33000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			101845		

**DEPOSIT #003755 (SAND POTENTIAL GRAVEL POCKETS)**  
 (NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003756 (SAND POTENTIAL GRAVEL POCKETS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003757 (VERY SWAMPY-NO ACCESS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003758 (VERY SWAMPY)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003759A**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003759B (TESTED BY HWY. SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003760A (GLACIOFLUVIAL;SAND & DIAMICT)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

**EXPOSURE #:** G 479 (SW-32-009-09E)  
**EXPOSURE TYPE:** BACKHOE TEST PIT

**VISITED:** 86/08  
**LAND USE:** FOREST NATURAL  
**SURROUNDING LAND USE:** FOREST NATURAL  
**QUALITY:** LOW  
**MATERIAL DESCRIPTION:** SILTY SAND DIAMICT  
**COMMENT:** NONE

**ECONOMIC THICKNESS:** 0.0 METRES

**SECTION:** A **SECTION HEIGHT:** 3.6 M. **DEPTH TO WATER TABLE:** -M.

**LITHOLOGY :**

**DELETERIOUS :**

**MATERIAL AT BASE:** TILL

**NO CHANNEL SAMPLE TAKEN**

**EXPOSURE #:** GM855 (SW-32-009-09E)  
**EXPOSURE TYPE:** BACKHOE TEST PIT

**VISITED:** 86/08  
**LAND USE:** FOREST NATURAL  
**SURROUNDING LAND USE:** FOREST NATURAL  
**QUALITY:**  
**MATERIAL DESCRIPTION:** SAND  
**COMMENT:** NONE

**ECONOMIC THICKNESS:** 0.0 METRES

**SECTION:** A **SECTION HEIGHT:** 3.5 M. **DEPTH TO WATER TABLE:** -M.

**LITHOLOGY :**

**DELETERIOUS :**

**MATERIAL AT BASE:** SAME AS IN PIT WALL

**NO CHANNEL SAMPLE TAKEN**

**DEPOSIT #003760B (GLACIOFLUVIAL-GRAVEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-29-009-09E	63000	0	63000	CROWN(PROVINCIAL)/CROWN	
NE-30-009-09E	108000	0	108000	CROWN(PROVINCIAL)/CROWN	
NE-31-009-09E	267000	0	267000	CROWN(PROVINCIAL)/CROWN	
SE-31-009-09E	852000	0	852000	CROWN(PROVINCIAL)/CROWN	
NW-32-009-09E	6000	0	6000	PRIVATE/PRIVATE	
SW-32-009-09E	123000	0	123000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			1419000		

**EXPOSURE INFORMATION**

EXPOSURE #: G 478 (NE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.5 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: DIAMICT OVER SAND AND GRAVEL  
OVER TILL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.1 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY:

DELETERIOUS:

MATERIAL AT BASE: TILL

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM846 (NE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.5 M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM847 (NE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.2 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 2.5 M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

NO CHANNEL SAMPLE TAKEN



EXPOSURE #: GM848 (NE-31-009-09E) VISITED: 86/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.0 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.5 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM849 (SE-31-009-09E) VISITED: 86/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.9 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 3.9 M. DEPTH TO WATER TABLE: 2.2 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM850 (SE-31-009-09E) VISITED: 86/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.9 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: SILT POCKETS  
SECTION: A SECTION HEIGHT: 3.9 M. DEPTH TO WATER TABLE: 2.9 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM853 (NE-30-009-09E) VISITED: 86/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 4.0 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM854 (NE-30-009-09E) VISITED: 86/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 4.5 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 4.0 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM856 (SW-32-009-09E) VISITED: 86/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 4.5 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 3.5 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAND AND GRAVEL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM857 (SW-32-009-09E) VISITED: 86/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 0.0 METRES QUALITY: LOW  
MATERIAL DESCRIPTION: SAND  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY:  
DELETERIOUS:  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM858 (NE-31-009-09E) VISITED: 86/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 1.5 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 2.6 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM859 (SE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 5.0 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 5.0 M. DEPTH TO WATER TABLE: 4.0 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM860 (SE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COARSE PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.6 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM861 (SE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.6 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.6 M. DEPTH TO WATER TABLE: 3.3 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM862 (SE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.6 METRES

VISITED: 86/08

LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: MEDIUM TO COARSE SAND  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.6 M. DEPTH TO WATER TABLE: 2.5 M.  
LITHOLOGY:  
DELETERIOUS:  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 31 009 09E GM846 A	95	89	84	76	68	57	45	22	7	4	ABUNDANT
NE 31 009 09E GM848 A	90	80	69	57	48	36	25	15	8	5	ABUNDANT
SE 31 009 09E GM849 A	91	81	70	60	51	40	29	9	4	3	ABUNDANT
NE 30 009 09E GM853 A	89	81	72	64	53	42	31	16	7	4	ABUNDANT
SW 32 009 09E GM856 A	85	77	65	60	52	42	28	13	6	3	ABUNDANT
NE 31 009 09E GM858 A	83	73	59	49	42	35	26	16	10	6	ABUNDANT
SE 31 009 09E GM859 A	90	80	72	65	56	45	30	12	4	3	ABUNDANT
SE 31 009 09E GM860 A	87	75	63	54	47	38	25	8	3	2	SPARSE
SE 31 009 09E GM861 A	88	80	68	61	52	42	28	13	6	4	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003760C (GLACIOFLUVIAL SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM851 (SE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 86/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: PEBBLY COBBLY SAND  
COMMENT: NONE

ECONOMIC THICKNESS: 3.1 METRES  
SECTION: A SECTION HEIGHT: 3.1 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM852 (SE-31-009-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 86/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: LOW  
MATERIAL DESCRIPTION: SAND WITH SILT  
COMMENT: NONE

ECONOMIC THICKNESS: 0.0 METRES  
SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 4.0 M.  
LITHOLOGY:  
DELETERIOUS:  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

**DEPOSIT #003760D (GLACIOFLUVIAL SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003761 (GLACIOFLUVIAL SAND-SOME GRAVEL)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION****EXPOSURE #:** GM863 (NE-31-009-09E)**EXPOSURE TYPE:** BACKHOE TEST PIT**ECONOMIC THICKNESS:** 3.0 METRES**VISITED:** 86/08**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** FOREST NATURAL**QUALITY:** LOW**MATERIAL DESCRIPTION:** SAND WITH OCC. BOULDERS**COMMENT:** NONE**SECTION:** A **SECTION HEIGHT:** 3.0 M. **DEPTH TO WATER TABLE:** -M.**LITHOLOGY:****DELETERIOUS:****MATERIAL AT BASE:** SAME AS IN PIT WALL**NO CHANNEL SAMPLE TAKEN****EXPOSURE #:** GM864 (SE-06-010-09E)**EXPOSURE TYPE:** BACKHOE TEST PIT**ECONOMIC THICKNESS:** 1.5 METRES**VISITED:** 86/08**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** FOREST NATURAL**QUALITY:** MEDIUM HIGH**MATERIAL DESCRIPTION:** BOULDERY COBBLY COARSE PEBBLE GRAVEL**COMMENT:** NONE**SECTION:** A **SECTION HEIGHT:** 3.6 M. **DEPTH TO WATER TABLE:** 3.6 M.**LITHOLOGY:****DELETERIOUS:****MATERIAL AT BASE:** SILT**NO CHANNEL SAMPLE TAKEN****EXPOSURE #:** GM865 (SE-06-010-09E)**EXPOSURE TYPE:** BACKHOE TEST PIT**ECONOMIC THICKNESS:** 0.0 METRES**VISITED:** 86/08**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** FOREST NATURAL**QUALITY:** LOW**MATERIAL DESCRIPTION:** COARSE SAND AND GRAVEL**COMMENT:** NONE**SECTION:** A **SECTION HEIGHT:** 3.5 M. **DEPTH TO WATER TABLE:** 3.0 M.**LITHOLOGY:****DELETERIOUS:****MATERIAL AT BASE:** SAND**NO CHANNEL SAMPLE TAKEN****DEPOSIT #003762 (GLACIOFLUVIAL-UNTESTED)****(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003763**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-009-11E	6000	20	4800	CROWN(PROVINCIAL)/CROWN	
NW-36-009-11E	114000	90	11400	CROWN(PROVINCIAL)/CROWN	
SW-36-009-11E	61500	90	6150	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			22350		

**EXPOSURE INFORMATION**

EXPOSURE #: GM736 (SW-36-009-11E) VISITED: 85/06  
 EXPOSURE TYPE: SAND AND GRAVEL PIT LAND USE: ACTIVE PIT  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.5 METRES QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: 1.0 M.  
 LITHOLOGY: 80% GENERAL CARBONATES 20% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: TILL  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 36 009 11E GM736 A	100	99	95	85	67	46	25	9	4	0	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003764 (VERY SWAMPY)**  
 (NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003765**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW-19-010-09E	136000	30	95200	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			95200		

**EXPOSURE INFORMATION**

EXPOSURE #: GM620 (SW-19-010-09E)

EXPOSURE TYPE: SAND AND GRAVEL PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/05

LAND USE: PIT TEMPORARY USE

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 85% GENERAL CARBONATES

15% GENERAL PRECAMBRIAN

DELETERIOUS:

MATERIAL AT BASE:

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 19 010 09E GM620 A	100	99	90	75	62	48	22	2	1	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003766 (GLACIOFLUVIAL)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003767A (GLACIOFLUVIAL-SG POCKETS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM692 (SW-13-010-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.3 METRES

VISITED: 84/07

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 13 010 09E GM692 A	94	75	61	51	42	34	25	11	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003767B (GLACIOFLUVIAL-SG POCKETS)**

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM733 (SW-08-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.7 METRES

VISITED: 84/11

LAND USE: SURFACE EASEMENT OTHER THAN ROADWAY  
SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SILT DIAMICT/SDY COB FN PEB  
GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 4.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 08 011 09E GM733 A	98	92	82	71	61	50	36	18	6	3	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #003767C (GLACIOFLUVIAL-SG POCKETS)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM661 (SW-17-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/07

LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 90% GENERAL CARBONATES 10% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM665 (NE-08-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.3 METRES

VISITED: 84/07

LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.5 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE:  
SEE SIEVE ANALYSIS



EXPOSURE #: GM690 (NE-16-011-09E) VISITED: 84/07  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 1.0 METRES QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.5 M.  
 LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM691 (NE-17-011-09E) VISITED: 84/07  
 EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
 SURROUNDING LAND USE: FOREST NATURAL  
 ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE  
 SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: -M.  
 LITHOLOGY: 85% GENERAL CARBONATES 15% GENERAL PRECAMBRIAN  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAND AND GRAVEL  
 SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 17 011 09E GM661 A	95	84	69	56	40	27	15	4	2	1	SPARSE
NE 08 011 09E GM665 A	96	94	90	86	79	62	44	22	4	1	ABUNDANT
NE 16 011 09E GM690 A	100	94	90	81	70	59	48	25	8	2	SPARSE
NE 17 011 09E GM691 A	96	86	73	60	42	26	14	6	2	1	SPARSE
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

#### DEPOSIT #003767D (GLACIOFLUVIAL)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-27-010-09E	188000	0	188000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		188000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM686 (SE-27-010-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 4.0 METRES

VISITED: 84/07

LAND USE: TIMBER AREA

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: SAND SEAMS 0.5 M.

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 60% GENERAL CARBONATES

40% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM687 (SE-27-010-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.2 METRES

VISITED: 84/07

LAND USE: TIMBER AREA

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 65% GENERAL CARBONATES

35% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 27 010 09E GM686 A	98	87	73	61	50	41	27	11	3	1	SPARSE
SE 27 010 09E GM687 A	99	98	97	92	87	79	53	20	4	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003767E (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-33-010-09E	90000	0	90000	PRIVATE/CROWN	
	DEPOSIT RESERVES		90000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM697 (SE-33-010-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.3 METRES

VISITED: 84/07

LAND USE: PASTURE, GRAZING

SURROUNDING LAND USE: PASTURE, GRAZING

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 80% GENERAL CARBONATES

20% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM698 (SE-33-010-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/07

LAND USE: PASTURE, GRAZING

SURROUNDING LAND USE: PASTURE, GRAZING

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 80% GENERAL CARBONATES

20% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SILT

SEE SIEVE ANALYSIS

EXPOSURE #: GM699 (SE-33-010-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/07

LAND USE: PASTURE, GRAZING

SURROUNDING LAND USE: PASTURE, GRAZING

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SILT

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 33 010 09E GM697 A	86	77	63	49	39	34	28	15	4	2	ABUNDANT
SE 33 010 09E GM698 A	87	77	69	61	55	46	31	11	2	1	ABUNDANT
SE 33 010 09E GM699 A	99	94	84	75	67	53	26	11	3	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003767F (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-33-010-09E	6000	0	6000	PRIVATE/PRIVATE	
SW-04-011-09E	12000	99	120	PRIVATE/PRIVATE	
NE-05-011-09E	111000	0	111000	CROWN(PROVINCIAL)/CROWN	PRIVATE/CROWN
SE-05-011-09E	921000	20	736800	CROWN(PROVINCIAL)/CROWN	
SW-05-011-09E	9000	0	9000	PRIVATE/CROWN	
DEPOSIT RESERVES			862920		

**EXPOSURE INFORMATION**

EXPOSURE #: GM671 (SE-05-011-09E)

VISITED: 84/07

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: BUILDING SITE(PERMANENT)

SURROUNDING LAND USE: BUILDING SITE(PERMANENT)

ECONOMIC THICKNESS: 1.3 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM672 (SE-05-011-09E)

VISITED: 84/07

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: BUILDING SITE(PERMANENT)

SURROUNDING LAND USE: BUILDING SITE(PERMANENT)

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 2.8 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM673 (SE-05-011-09E)

VISITED: 84/07

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: BUILDING SITE(PERMANENT)

SURROUNDING LAND USE: BUILDING SITE(PERMANENT)

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM674 (SE-05-011-09E) VISITED: 84/07  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 2.0 METRES QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM675 (SE-05-011-09E) VISITED: 84/07  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.6 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 2.8 M.  
LITHOLOGY: 80% GENERAL CARBONATES 20% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM676 (SE-05-011-09E) VISITED: 84/07  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.2 METRES QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 3.5 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM677 (SE-05-011-09E) VISITED: 84/07  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 3.0 METRES QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 3.5 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM678 (SE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.2 METRES

VISITED: 84/07  
LAND USE: BUILDING SITE(PERMANENT)  
SURROUNDING LAND USE: BUILDING SITE(PERMANENT)  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM679 (SE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/07  
LAND USE: BUILDING SITE(PERMANENT)  
SURROUNDING LAND USE: BUILDING SITE(PERMANENT)  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OCCASIONAL COBBLES  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.8 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SILT  
SEE SIEVE ANALYSIS

EXPOSURE #: GM680 (SE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.2 METRES

VISITED: 84/07  
LAND USE: BUILDING SITE(PERMANENT)  
SURROUNDING LAND USE: BUILDING SITE(PERMANENT)  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.3 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM681 (SE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.7 METRES

VISITED: 84/07  
LAND USE: BUILDING SITE(PERMANENT)  
SURROUNDING LAND USE: BUILDING SITE(PERMANENT)  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 5.0 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM682 (SE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 0.7 METRES

VISITED: 84/07  
LAND USE: BUILDING SITE(PERMANENT)  
SURROUNDING LAND USE: BUILDING SITE(PERMANENT)  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: 1.8 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
NO CHANNEL SAMPLE TAKEN

EXPOSURE #: GM683 (SE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/07  
LAND USE: BUILDING SITE(PERMANENT)  
SURROUNDING LAND USE: BUILDING SITE(PERMANENT)  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM684 (SE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.7 METRES

VISITED: 84/07  
LAND USE: BUILDING SITE(PERMANENT)  
SURROUNDING LAND USE: BUILDING SITE(PERMANENT)  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: 2.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM727 (NE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/11  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM728 (NE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.8 METRES

VISITED: 84/11

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM731 (NE-05-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.5 METRES

VISITED: 84/11

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: GRAVELLY DIAMICT/SDY COB PEB  
GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
SE 05 011 09E GM671 A	88	77	69	59	50	42	28	7	1	1	SPARSE	
SE 05 011 09E GM672 A	99	94	89	85	81	74	60	37	9	2	SPARSE	
SE 05 011 09E GM674 A	88	81	63	51	41	33	24	13	8	4	ABUNDANT	
SE 05 011 09E GM675 A	94	81	62	49	41	34	24	8	3	2	SPARSE	
SE 05 011 09E GM676 A	91	78	67	58	49	41	26	10	6	4	SPARSE	
SE 05 011 09E GM677 A	95	88	79	71	64	58	50	21	4	2	SPARSE	
SE 05 011 09E GM678 A	95	90	87	81	75	68	49	10	3	2	SPARSE	
SE 05 011 09E GM679 A	97	92	88	83	74	60	34	12	4	3	SPARSE	
SE 05 011 09E GM680 A	100	100	85	72	57	43	31	21	14	8	SPARSE	
SE 05 011 09E GM681 A	97	89	79	69	61	54	40	16	9	6	SPARSE	
SE 05 011 09E GM683 A	94	80	63	52	43	35	27	14	6	3	ABUNDANT	
SE 05 011 09E GM684 A	93	81	69	52	37	27	20	13	8	5	SPARSE	
NE 05 011 09E GM727 A	88	77	66	54	44	35	24	9	3	1	ABUNDANT	
NE 05 011 09E GM728 A	89	78	64	48	37	26	15	9	5	3	ABUNDANT	
NE 05 011 09E GM731 A	91	79	66	49	35	24	13	5	2	1	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)



**DEPOSIT #003767G (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-05-011-09E	5600	99	56	CROWN(PROVINCIAL)/CROWN	PRIVATE/CROWN
SE-07-011-09E	56000	0	56000	PRIVATE/CROWN	
SW-08-011-09E	210000	0	210000	PRIVATE/PRIVATE	
DEPOSIT RESERVES			266056		

**EXPOSURE INFORMATION**

EXPOSURE #: GM668 (SW-08-011-09E)

VISITED: 84/07

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: HIGHWAY,ROADWAY,RAILWAY

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.2 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.5 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM732 (SW-08-011-09E)

VISITED: 84/11

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 4.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
SW 08 011 09E GM668 A	93	88	76	62	51	43	31	16	4	2	ABUNDANT	
SW 08 011 09E GM732 A	96	89	80	69	55	35	17	7	3	2	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003767H (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-18-011-09E	19500	0	19500	CROWN(PROVINCIAL)/CROWN	
SW-18-011-09E	76500	0	76500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		96000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM659 (NW-18-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/07  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

ECONOMIC THICKNESS: 1.5 METRES

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 90% GENERAL CARBONATES 10% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND AND GRAVEL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 18 011 09E GM659 A	94	83	72	61	50	36	23	16	13	11	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003767I (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-18-011-09E	171500	25	128625	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		128625		

**EXPOSURE INFORMATION**

EXPOSURE #: GM282 (NW-18-011-09E)

VISITED: 79/07

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE (COMMONLY REVEGETATED)

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 6.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: KAME

SECTION: A SECTION HEIGHT: 6.0 M.

DEPTH TO WATER TABLE: 6.0 M.

LITHOLOGY: 85% LIMESTONE

15% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM660 (NW-18-011-09E)

VISITED: 84/07

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 3.5 METRES

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH COBBLES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M.

DEPTH TO WATER TABLE: -M.

LITHOLOGY: 85% GENERAL CARBONATES

15% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 18 011 09E GM282 A	91	82	70	59	45	34	25	17	11	5	ABUNDANT
NW 18 011 09E GM660 A	90	80	56	42	31	22	16	12	10	7	ABUNDANT
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003767J (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-15-011-09E	37500	0	37500	CROWN (PROVINCIAL)/CROWN	
NE-16-011-09E	52500	0	52500	CROWN (PROVINCIAL)/CROWN	
SE-16-011-09E	5000	0	5000	CROWN (PROVINCIAL)/CROWN	
DEPOSIT RESERVES			95000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM666 (NE-16-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/07

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY COARSE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 75% GENERAL PRECAMBRIAN 25% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 16 011 09E GM666 A	92	85	80	74	67	51	28	12	4	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003768A**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-12-010-09E	12000	0	12000	CROWN(PROVINCIAL)/CROWN	
SE-13-010-09E	106000	0	106000	CROWN(PROVINCIAL)/CROWN	
NE-07-010-10E	16000	0	16000	CROWN(PROVINCIAL)/CROWN	
NW-07-010-10E	188000	5	178600	CROWN(PROVINCIAL)/CROWN	
SE-07-010-10E	48000	0	48000	CROWN(PROVINCIAL)/CROWN	
SW-07-010-10E	26000	0	26000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			386600		

**EXPOSURE INFORMATION**

EXPOSURE #: GM693 (SE-13-010-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/07

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM HIGH

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM694 (NW-07-010-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/07  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY FINE PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM695 (NW-07-010-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.8 METRES

VISITED: 84/07  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: -M.  
LITHOLOGY: 65% GENERAL CARBONATES 35% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 13 010 09E GM693 A	100	94	77	63	51	40	25	13	2	1	ABUNDANT
NW 07 010 10E GM694 A	89	74	66	57	45	35	28	19	1	1	ABUNDANT
NW 07 010 10E GM695 A	95	82	66	56	52	50	46	20	1	0	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #003768B (SAND SPIT)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

#### DEPOSIT #003769

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-27-010-09E	3000	0	3000	CROWN(PROVINCIAL)/CROWN	
NW-27-010-09E	46500	20	37200	CROWN(PROVINCIAL)/CROWN	
SE-33-010-09E	10500	0	10500	CROWN(PROVINCIAL)/CROWN	
SW-34-010-09E	78000	0	78000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			128700		

**EXPOSURE INFORMATION**

EXPOSURE #: GM685 (NW-27-010-09E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.8 METRES

VISITED: 84/07

LAND USE: TIMBER AREA

SURROUNDING LAND USE: TIMBER AREA

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 3.0 M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM696 (SE-33-010-09E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 84/07

LAND USE: PASTURE, GRAZING

SURROUNDING LAND USE: PASTURE, GRAZING

QUALITY: LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 80% GENERAL CARBONATES 20% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
NW 27 010 09E GM685 A	91	80	67	57	50	43	34	17	3	1	SPARSE	
SE 33 010 09E GM696 A	100	99	97	92	80	65	36	5	1	1	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003770 (HIGHWAY'S PIT)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW-04-011-09E	7500	99	75	PRIVATE/PRIVATE	
NE-05-011-09E	60000	20	48000	PRIVATE/PRIVATE	
NW-05-011-09E	12000	0	12000	CROWN(PROVINCIAL)/CROWN	PRIVATE/CROWN
SE-05-011-09E	18000	99	180	CROWN(PROVINCIAL)/CROWN	CROWN(MUNICIPAL)/CROWN
	DEPOSIT RESERVES		60255		

## EXPOSURE INFORMATION

EXPOSURE #: GM669 (SE-05-011-09E)

EXPOSURE TYPE: HAND DUG HOLE

ECONOMIC THICKNESS: 1.5 METRES

VISITED: 84/07

LAND USE: ACTIVE PIT

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 1.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 90% GENERAL CARBONATES 10% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM670 (NE-05-011-09E)

EXPOSURE TYPE: HAND DUG HOLE

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/07

LAND USE: ACTIVE PIT

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH COBBLES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 80% GENERAL CARBONATES 20% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM729 (NE-05-011-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.7 METRES

VISITED: 84/11

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM730 (NE-05-011-09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/11

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: -M.

LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: CLAY

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 05 011 09E GM669 A	98	89	70	58	47	36	24	12	5	3	ABUNDANT
NE 05 011 09E GM670 A	95	82	64	54	46	39	29	10	3	1	ABUNDANT
NE 05 011 09E GM729 A	96	90	79	65	49	37	22	12	9	6	ABUNDANT
NE 05 011 09E GM730 A	99	95	78	51	33	19	9	5	4	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003771 (ESSENTIALLY DEPLETED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-06-011-09E	33000	20	26400	CROWN(PROVINCIAL)/CROWN	
SE-06-011-09E	76500	99	765	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		27165		

**DEPOSIT #003772 (VERY SANDY)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-06-011-09E	46500	0	46500	CROWN(PROVINCIAL)/CROWN	
SE-07-011-09E	13500	0	13500	PRIVATE/CROWN	
	DEPOSIT RESERVES		60000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM667 (NE - 06 - 011 - 09E)

EXPOSURE TYPE: HAND DUG HOLE

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/07

LAND USE: HIGHWAY, ROADWAY, RAILWAY

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 90% GENERAL CARBONATES 10% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 06 011 09E GM667 A	99	93	85	75	63	49	38	19	4	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)



**DEPOSIT #003773**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-08-011-09E	42000	0	42000	PRIVATE/PRIVATE	
NW-09-011-09E	48000	0	48000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			90000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM664 (NW-09-011-09E)

VISITED: 84/07

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 3.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 90% GENERAL CARBONATES

10% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		
NW 09 011 09E GM664 A	100	95	89	80	69	56	34	10	2	1	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003774**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-08-011-09E	54000	0	54000	PRIVATE/PRIVATE	
NW-08-011-09E	80000	0	80000	PRIVATE/PRIVATE	
DEPOSIT RESERVES			134000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM662 (NW - 08 - 011 - 09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/07

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH COBBLES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 90% GENERAL CARBONATES 10% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

EXPOSURE #: GM663 (NE - 08 - 011 - 09E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/07

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 2.5 M.

LITHOLOGY: 90% GENERAL CARBONATES 10% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 08 011 09E GM662 A	95	86	77	65	51	41	30	9	4	3	ABUNDANT
NE 08 011 09E GM663 A	99	93	83	71	60	51	41	13	1	0	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003775A**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE - 19 - 011 - 09E 90000		30	63000	CROWN(PROVINCIAL)/CROWN	
SW - 20 - 011 - 09E 12000		0	12000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		75000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM689 (SE - 19 - 011 - 09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/07

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.3 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SILT

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 19 011 09E GM689 A	100	99	90	76	52	32	14	6	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003775B**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-18-011-09E	1500	0	1500	CROWN(PROVINCIAL)/CROWN	
SW-19-011-09E	31500	0	31500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			33000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM688 (SW - 19 - 011 - 09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/07

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)  
SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 80% GENERAL CARBONATES 20% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SILT

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
SW 19 011 09E GM688 A	100	95	82	70	54	34	16	8	6	5	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003775C**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-18-011-09E	30000	0	30000	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		30000		

**DEPOSIT #003775D (UNTESTED-SANDY)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003776 (GLACIOFLUVIAL-SG POCKETS)**  
**(NO ECONOMIC AGGREGATE RESERVES PROVEN)**

**DEPOSIT #003777 (VERY SANDY)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-22-010-10E	28500	0	28500	CROWN(PROVINCIAL)/CROWN	
NW-22-010-10E	91500	0	91500	CROWN(PROVINCIAL)/CROWN	
SW-27-010-10E	48000	0	48000	CROWN(PROVINCIAL)/CROWN	
SE-28-010-10E	37500	0	37500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		205500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM724 (SW-27-010-10E)

VISITED: 84/09

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: TIMBER AREA

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 1.5 METRES

QUALITY: LOW

MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.9 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 27 010 10E GM724 A	100	98	87	79	66	48	31	15	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003778 (UNTESTED-LIKELY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003779 (UNTESTED-LIKELY SAND)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003780A (POTENTIAL SG POCKETS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**EXPOSURE INFORMATION**

EXPOSURE #: GM718 (SE - 03 - 011 - 10E) VISITED: 84/08  
EXPOSURE TYPE: BACKHOE TEST PIT LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
ECONOMIC THICKNESS: 1.4 METRES QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAVEL  
COMMENT: NONE  
SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 95% GENERAL CARBONATES 5% GENERAL PRECAMBRIAN  
DELETERIOUS :  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SE 03 011 10E GM718 A	100	98	91	74	51	30	13	7	3	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003780B**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-35-010-10E	45000	0	45000	CROWN(PROVINCIAL)/CROWN	PRIVATE/PRIVATE
SW-02-011-10E	12000	0	12000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			57000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM726 (NW-35-010-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/09

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAV  
W/BOULDERS

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

**DEPOSIT #003781A (BEACH SOME GLACIOFL. IN BASE)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-25-010-10E	129000	30	90300	CROWN(PROVINCIAL)/CROWN	
NE-26-010-10E	21000	0	21000	PRIVATE/PRIVATE	
NW-26-010-10E	243000	90	24300	PRIVATE/PRIVATE	
NE-27-010-10E	60000	70	18000	CROWN(PROVINCIAL)/CROWN	
NE-35-010-10E	18000	80	3600	PRIVATE/PRIVATE	
NW-35-010-10E	126000	80	25200	CROWN(PROVINCIAL)/CROWN	PRIVATE/PRIVATE
SE-35-010-10E	657000	80	131400	CROWN(PROVINCIAL)/CROWN	PRIVATE/PRIVATE
SW-35-010-10E	642000	80	128400	CROWN(PROVINCIAL)/CROWN	PRIVATE/PRIVATE
DEPOSIT RESERVES			442200		

**EXPOSURE INFORMATION**

EXPOSURE #: GM719 (NW - 25 - 010 - 10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.6 METRES

VISITED: 84/09

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: STONEY MEDIUM GRAVEL WITH OCC  
COBBLE

COMMENT: NONE

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 65% GENERAL PRECAMBRIAN 35% GENERAL CARBONATES  
DELETERIOUS :  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM720 (SE-35-010-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: BEACH

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

EXPOSURE #: GM721 (SW-35-010-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 4.0 METRES

VISITED: 84/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: BOULDERS AT BASE

SECTION: A SECTION HEIGHT: 4.3 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 50% GENERAL CARBONATES 50% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM722 (SW-35-010-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 4.0 METRES

VISITED: 84/09  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: HIGH  
MATERIAL DESCRIPTION: COBBLY COARSE PEBBLE GRAVEL  
COMMENT: BOULDERS

SECTION: A SECTION HEIGHT: 4.0 M. DEPTH TO WATER TABLE: 4.0 M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM723 (NW-26-010-10E)  
EXPOSURE TYPE: SAND AND GRAVEL PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/09  
LAND USE: ACTIVE PIT  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: PEBBLY SAND OVER CCPG  
COMMENT: BOULDERS

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND

SAMPLE A FLANK; SAMPLE B CORE

EXPOSURE #: GM725 (SW - 35 - 010 - 10E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 2.5 METRES

VISITED: 84/09

LAND USE: PIT TEMPORARY USE

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAV OCC  
BOULDER

COMMENT: BEACH/TILL

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.5 M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: TILL

SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING											
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE	
NW 25 010 10E GM719 A	100	92	77	63	51	40	30	12	2	1	SPARSE	
SE 35 010 10E GM720 A	96	91	87	81	71	54	39	25	3	1	SPARSE	
SW 35 010 10E GM721 A	90	80	72	62	50	37	27	15	4	2	SPARSE	
SW 35 010 10E GM722 A	75	63	55	46	35	22	14	8	4	2	ABUNDANT	
NW 26 010 10E GM723 A	99	98	98	98	97	88	63	21	1	1	ABUNDANT	
NW 26 010 10E GM723 B	84	65	56	46	36	26	17	10	7	7	ABUNDANT	
SW 35 010 10E GM725 A	85	74	66	56	46	34	21	7	4	2	ABUNDANT	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #003781B (POT.SG BELOW LACUSTRINE)

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003782 (DEPLETED NORTH OF HWY.15)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-35-010-10E	112500	80	22500	PRIVATE/PRIVATE	
	DEPOSIT RESERVES		22500		

DEPOSIT #003783A (POTENTIAL SG POCKETS)

(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**EXPOSURE INFORMATION**

EXPOSURE #: GM715 (SW-04-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

ECONOMIC THICKNESS: 4.5 METRES

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 3.0 M.  
LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

EXPOSURE #: GM716 (NW-34-010-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: NONE

ECONOMIC THICKNESS: 1.2 METRES

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 1.4 M.  
LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
DELETERIOUS:  
MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
SW 04 011 10E GM715 A	97	94	87	79	66	44	29	20	6	1	ABUNDANT
NW 34 010 10E GM716 A	99	89	75	65	56	44	26	10	4	2	SPARSE
(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)											

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003783B**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW - 03 - 011 - 10E57000		0	57000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			57000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM717 (SW-03-011-10E)

EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.4 METRES

VISITED: 84/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 2.5 M.

LITHOLOGY: 50% GENERAL PRECAMBRIAN 50% GENERAL CARBONATES

DELETERIOUS:

MATERIAL AT BASE: SAME AS IN PIT WALL

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 03 011 10E GM717 A	100	94	87	75	57	32	14	7	4	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003784 (ROCK BASE-HIGH WATER)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-27-010-14E	72000	80	14400	CROWN(PROVINCIAL)/CROWN	
SW-27-010-14E	58500	80	11700	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			26100		

**DEPOSIT #003785 (ESSENTIALLY DEPLETED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-26-010-14E	100000	0	100000	CROWN(MUNICIPAL)/CROWN	
SE-26-010-14E	16000	90	1600	CROWN(PROVINCIAL)/CROWN	PRIVATE/PRIVATE
SW-26-010-14E	34000	90	3400	CROWN(PROVINCIAL)/CROWN	CROWN(MUNICIPAL)/CROWN
DEPOSIT RESERVES			105000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM782 (SW - 26 - 010 - 14E)

VISITED: 85/08

EXPOSURE TYPE: SAND AND GRAVEL PIT

LAND USE: PIT NOT IN USE(COMMONLY REVEGETATED)

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 3.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COARSE COBBLY PEBBLE  
GRAVEL

COMMENT: ESSENTIALLY DEPLETED

SECTION: A SECTION HEIGHT: 3.0 M.

DEPTH TO WATER TABLE: 1.5 M.

LITHOLOGY: 99% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: BEDROCK

NO CHANNEL SAMPLE TAKEN

**DEPOSIT #003786A**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SW-19-011-13E	70500	70	21150	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		21150		

**DEPOSIT #003786B**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-19-011-13E	57000	70	17100	CROWN(PROVINCIAL)/CROWN	PRIVATE/PRIVATE
SW-19-011-13E	28500	70	8550	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		25650		

**DEPOSIT #003786C**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-30-011-13E	106500	60	42600	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		42600		

**EXPOSURE INFORMATION**

EXPOSURE #: GM780 (SE - 30 - 011 - 13E)  
EXPOSURE TYPE: BULLDOZER TEST PIT

ECONOMIC THICKNESS: 1.0 METRES

VISITED: 85/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: BOULDERS IN S&G

SECTION: A SECTION HEIGHT: 1.0 M. DEPTH TO WATER TABLE: 0.7 M.

LITHOLOGY: 55% GENERAL CARBONATES 45% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE:

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 30 011 13E GM780 A	99	94	85	71	56	40	25	11	3	2	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #003787 (UNTESTED-SANDY)

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003788 (DUNE COVER)

(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003789A (POTENTIAL SG POCKETS)

(NO PROVEN ECONOMIC AGGREGATE RESERVES)

**EXPOSURE INFORMATION**

EXPOSURE #: GM709 (SW - 28 - 011 - 10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 1.3 METRES

VISITED: 84/08

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

QUALITY: MEDIUM LOW

MATERIAL DESCRIPTION: SANDY COBBLY FINE PEBBLE GRAVEL

COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: 2.5 M.

LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SW 28 011 10E GM709 A	90	83	79	72	65	57	45	12	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003789B (SAND AND DIAMICT LAYERS)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-19-011-10E	775000	0	775000	CROWN(PROVINCIAL)/CROWN	
SE-19-011-10E	112500	0	112500	CROWN(PROVINCIAL)/CROWN	
NE-20-011-10E	152500	10	137250	CROWN(PROVINCIAL)/CROWN	
NW-20-011-10E	562500	0	562500	CROWN(PROVINCIAL)/CROWN	
SW-20-011-10E	220000	0	220000	CROWN(PROVINCIAL)/CROWN	
SE-29-011-10E	55000	0	55000	CROWN(PROVINCIAL)/CROWN	
SW-29-011-10E	600000	0	600000	CROWN(PROVINCIAL)/CROWN	
SE-30-011-10E	677500	0	677500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			3139750		

**EXPOSURE INFORMATION**

EXPOSURE #: GM702 (NE-19-011-10E)

VISITED: 84/08

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: TIMBER AREA

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 3.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY COARSE PEBBLE GRAVEL

COMMENT: BOULDERS AT SURFACE

SECTION: A SECTION HEIGHT: 3.5 M.

DEPTH TO WATER TABLE: - M.

LITHOLOGY: 70% GENERAL PRECAMBRIAN

30% GENERAL CARBONATES

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM703 (NE-19-011-10E)

VISITED: 84/08

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: TIMBER AREA

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.7 M.

DEPTH TO WATER TABLE: - M.

LITHOLOGY: 60% GENERAL PRECAMBRIAN

40% GENERAL CARBONATES

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

EXPOSURE #: GM704 (NE-19-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.3 METRES

VISITED: 84/08  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
COMMENT: BEACH

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 55% GENERAL CARBONATES 45% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM705 (SE-30-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.3 METRES

VISITED: 84/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY COARSE PEBBLE GRAVEL  
COMMENT: GLACIOFLUVIAL

SECTION: A SECTION HEIGHT: 3.6 M. DEPTH TO WATER TABLE: 2.5 M.  
LITHOLOGY: 70% GENERAL PRECAMBRIAN 30% GENERAL CARBONATES  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM706 (SW-20-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/08  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL PRECAMBRIAN 30% GENERAL CARBONATES  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

EXPOSURE #: GM707 (NW-20-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.3 METRES

VISITED: 84/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: SANDY FINE PEBBLE GRAV. OCC. COBBLE  
COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL PRECAMBRIAN 30% GENERAL CARBONATES  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM708 (SE-30-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 4.5 METRES

VISITED: 84/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: TOP 2 M. POOR QUALITY

SECTION: A SECTION HEIGHT: 4.5 M. DEPTH TO WATER TABLE: 3.5 M.  
LITHOLOGY: 85% GENERAL PRECAMBRIAN 15% GENERAL CARBONATES  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM712 (NE-20-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL OCC. COBBLE  
COMMENT: GLACIOFLUVIAL

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 60% GENERAL CARBONATES 40% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: SILT  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 19 011 10E GM702 A	83	74	65	57	49	40	32	17	6	3	ABUNDANT
NE 19 011 10E GM703 A	92	84	76	68	58	46	31	14	5	2	ABUNDANT
NE 19 011 10E GM704 A	99	96	91	82	63	40	19	6	3	2	ABUNDANT
SE 30 011 10E GM705 A	68	52	42	32	26	20	15	7	3	1	ABUNDANT
SW 20 011 10E GM706 A	90	76	67	57	48	37	23	8	3	2	ABUNDANT
NW 20 011 10E GM707 A	94	88	83	77	66	51	33	11	2	1	SPARSE
SE 30 011 10E GM708 A	81	70	61	54	45	36	25	12	4	1	ABUNDANT
NE 20 011 10E GM712 A	96	86	80	74	67	57	41	18	9	8	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

DEPOSIT #003789C (POTENTIAL SG POCKETS)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003789D (POTENTIAL SG POCKETS)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

DEPOSIT #003790A (POTENTIAL SG POCKETS)  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003790B (SOME BEACH GRAVEL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-21-011-10E	207000	0	207000	CROWN(PROVINCIAL)/CROWN	
NW-21-011-10E	16500	0	16500	CROWN(PROVINCIAL)/CROWN	
	DEPOSIT RESERVES		223500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM710 (NW-21-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM HIGH  
MATERIAL DESCRIPTION: SANDY COBBLY COARSE PEBBLE GRAVEL

ECONOMIC THICKNESS: 2.0 METRES

COMMENT: NONE

SECTION: A SECTION HEIGHT: 2.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

EXPOSURE #: GM711 (NE-21-011-10E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/08  
LAND USE: FOREST NATURAL  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM LOW  
MATERIAL DESCRIPTION: PEA GRAVEL OCCASIONAL COBBLE  
COMMENT: BEACH

ECONOMIC THICKNESS: 1.3 METRES

SECTION: A SECTION HEIGHT: 2.0 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
DELETERIOUS: WEATHERED PEBBLES  
MATERIAL AT BASE: TILL  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 21 011 10E GM710 A	84	72	59	51	39	24	13	7	3	1	ABUNDANT
NE 21 011 10E GM711 A	94	91	90	85	60	21	11	7	5	3	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003791 (SPIT)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003762 (UNTESTED-NO ACCESS)**  
(NO ECONOMIC AGGREGATE RESERVES PROVEN)



**DEPOSIT #003793A (GLACIOFLUVIAL-PREDOMINANTLY SAND)**  
 (NO ECONOMIC AGGREGATE RESERVES PROVEN)

**DEPOSIT #003793B (GLACIOFLUVIAL-HWY.TESTED)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-27-011-09E	18000	0	18000	CROWN(PROVINCIAL)/CROWN	
SW-27-011-09E	117000	0	117000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			135000		

**DEPOSIT #003793C (GLACIOFLUVIAL)**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-22-011-09E	96000	0	96000	CROWN(PROVINCIAL)/CROWN	
SW-27-011-09E	207000	0	207000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			303000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM654 (NW-22-011-09E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.5 METRES

VISITED: 84/07  
 LAND USE: FOREST NATURAL  
 SURROUNDING LAND USE: TIMBER AREA  
 QUALITY: MEDIUM HIGH  
 MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
 COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.7 M. DEPTH TO WATER TABLE: 3.5 M.  
 LITHOLOGY: 80% GENERAL PRECAMBRIAN 20% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM656 (SW-27-011-09E)  
 EXPOSURE TYPE: BACKHOE TEST PIT

ECONOMIC THICKNESS: 3.5 METRES

VISITED: 84/07  
 LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: TIMBER AREA  
 QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.  
 LITHOLOGY: 60% GENERAL PRECAMBRIAN 40% GENERAL CARBONATES  
 DELETERIOUS: CARBONATE INCRUSTATION  
 MATERIAL AT BASE: SAME AS IN PIT WALL  
 SEE SIEVE ANALYSIS

EXPOSURE #: GM657 (SW-27-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 3.0 METRES

VISITED: 84/07  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: TIMBER AREA  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL WITH COBBLES  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.9 M.  
LITHOLOGY: 70% GENERAL PRECAMBRIAN 30% GENERAL CARBONATES  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAME AS IN PIT WALL  
SEE SIEVE ANALYSIS

#### SIEVE ANALYSIS

	PERCENT PASSING										
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	OVERSIZE
NW 22 011 09E GM654 A	95	79	61	48	34	22	12	4	2	1	SPARSE
SW 27 011 09E GM656 A	98	93	85	77	65	52	32	15	7	4	SPARSE
SW 27 011 09E GM657 A	94	88	79	67	47	26	15	9	4	2	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

#### DEPOSIT #003793D (GLACIOFLUVIAL)

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-21-011-09E	19500	0	19500	CROWN(PROVINCIAL)/CROWN	
NW-22-011-09E	40500	0	40500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			60000		

#### EXPOSURE INFORMATION

EXPOSURE #: GM658 (NW-22-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT  
ECONOMIC THICKNESS: 1.2 METRES

VISITED: 84/07  
LAND USE: TIMBER AREA  
SURROUNDING LAND USE: FOREST NATURAL  
QUALITY: MEDIUM  
MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.  
LITHOLOGY: 85% GENERAL CARBONATES 15% GENERAL PRECAMBRIAN  
DELETERIOUS: CARBONATE INCRUSTATION  
MATERIAL AT BASE: SAND  
SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NW 22 011 09E GM658 A	89	81	72	62	50	36	17	5	2	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003794**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NW-22-011-09E	16500	0	16500	CROWN(PROVINCIAL)/CROWN	
NW-23-011-09E	21000	0	21000	CROWN(PROVINCIAL)/CROWN	
SW-26-011-09E	22500	0	22500	PRIVATE/PRIVATE	
SE-27-011-09E	120000	0	120000	CROWN(PROVINCIAL)/CROWN	
SW-27-011-09E	24000	0	24000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			204000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM655 (SE-27-011-09E)  
EXPOSURE TYPE: BACKHOE TEST PIT

VISITED: 84/07

LAND USE: TIMBER AREA

SURROUNDING LAND USE: TIMBER AREA

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M. DEPTH TO WATER TABLE: - M.

LITHOLOGY: 90% GENERAL CARBONATES

10% GENERAL PRECAMBRIAN

DELETERIOUS: CARBONATE INCRUSTATION

MATERIAL AT BASE: SAND

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 27 011 09E GM655 A	100	96	81	64	48	32	19	5	2	1	SPARSE

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003795**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-19-011-10E	34500	0	34500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			34500		

**EXPOSURE INFORMATION**

EXPOSURE #: GM701 (SE-19-011-10E)  
 EXPOSURE TYPE: BACKHOE TEST PIT  
 ECONOMIC THICKNESS: 2.0 METRES

VISITED: 84/08  
 LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: FOREST NATURAL  
 QUALITY: MEDIUM LOW  
 MATERIAL DESCRIPTION: SANDY PEBBLE GRAVEL  
 COMMENT: BEACH

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 2.0 M.  
 LITHOLOGY: 70% GENERAL CARBONATES 30% GENERAL PRECAMBRIAN  
 DELETERIOUS :  
 MATERIAL AT BASE: TILL  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		
SE 19 011 10E GM701 A	98	89	79	70	61	51	41	12	3	2	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003796**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
SE-20-011-10E	4500	0	4500	CROWN(PROVINCIAL)/CROWN	
SW-20-011-10E	49500	10	44550	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			49050		

**EXPOSURE INFORMATION**

EXPOSURE #: GM700 (SW-20-011-10E)  
 EXPOSURE TYPE: BACKHOE TEST PIT  
 ECONOMIC THICKNESS: 1.7 METRES

VISITED: 84/08  
 LAND USE: TIMBER AREA  
 SURROUNDING LAND USE: FOREST NATURAL  
 QUALITY: MEDIUM  
 MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL  
 COMMENT: NORMALLY GRADED

SECTION: A SECTION HEIGHT: 3.0 M. DEPTH TO WATER TABLE: 1.5 M.  
 LITHOLOGY: 70% GENERAL PRECAMBRIAN 30% GENERAL CARBONATES  
 DELETERIOUS :  
 MATERIAL AT BASE: TILL  
 SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING											OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200		
SW 20 011 10E GM700 A	92	77	70	61	53	41	26	9	3	2	SPARSE	

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003797**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-20-011-10E	9000	0	9000	CROWN(PROVINCIAL)/CROWN	
SE-20-011-10E	27000	0	27000	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			36000		

**EXPOSURE INFORMATION**

EXPOSURE #: GM714 (SE-20-011-10E)

VISITED: 84/08

EXPOSURE TYPE: BACKHOE TEST PIT

LAND USE: FOREST NATURAL

SURROUNDING LAND USE: FOREST NATURAL

ECONOMIC THICKNESS: 2.0 METRES

QUALITY: MEDIUM

MATERIAL DESCRIPTION: SANDY COBBLY PEBBLE GRAVEL

COMMENT: NONE

SECTION: A SECTION HEIGHT: 3.5 M.

DEPTH TO WATER TABLE: 2.3 M.

LITHOLOGY: 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

DELETERIOUS: WEATHERED PEBBLES

MATERIAL AT BASE: CLAY

SEE SIEVE ANALYSIS

**SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
SE 20 011 10E GM714 A	81	72	63	58	52	45	28	9	3	1	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)

**DEPOSIT #003798**

LOCATION	INITIAL RESERVES (m <sup>3</sup> )	PERCENT DEPLETED	REMAINING RESERVES (m <sup>3</sup> )	OWNER (SURFACE/GRAVEL)	OWNER 2 (SURFACE/GRAVEL)
NE-20-011-10E	72500	0	72500	CROWN(PROVINCIAL)/CROWN	
DEPOSIT RESERVES			72500		
TOTAL REPORT RESERVES			42270021		

**EXPOSURE INFORMATION****EXPOSURE #:** GM713 (NE-20-011-10E)**EXPOSURE TYPE:** BACKHOE TEST PIT**ECONOMIC THICKNESS:** 3.0 METRES**VISITED:** 84/08**LAND USE:** FOREST NATURAL**SURROUNDING LAND USE:** FOREST NATURAL**QUALITY:** MEDIUM LOW**MATERIAL DESCRIPTION:** SANDY FINE PEBBLE GRAVEL**COMMENT:** BEACH OVER TILL**SECTION:** A    **SECTION HEIGHT:** 2.5 M.    **DEPTH TO WATER TABLE:** - M.**LITHOLOGY:** 70% GENERAL CARBONATES

30% GENERAL PRECAMBRIAN

**DELETERIOUS:** WEATHERED PEBBLES**MATERIAL AT BASE:****SEE SIEVE ANALYSIS****SIEVE ANALYSIS**

	PERCENT PASSING										OVERSIZE
	1.5	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	
NE 20 011 10E GM713 A	100	98	92	86	79	60	33	12	9	9	ABUNDANT

(NOTE: ALL SAMPLES ARE 100% PASSING 3 INCHES)