YUKON TERRITORY

NORTH ALASKA HIGHWAY Granular Sources

Autumn 1993

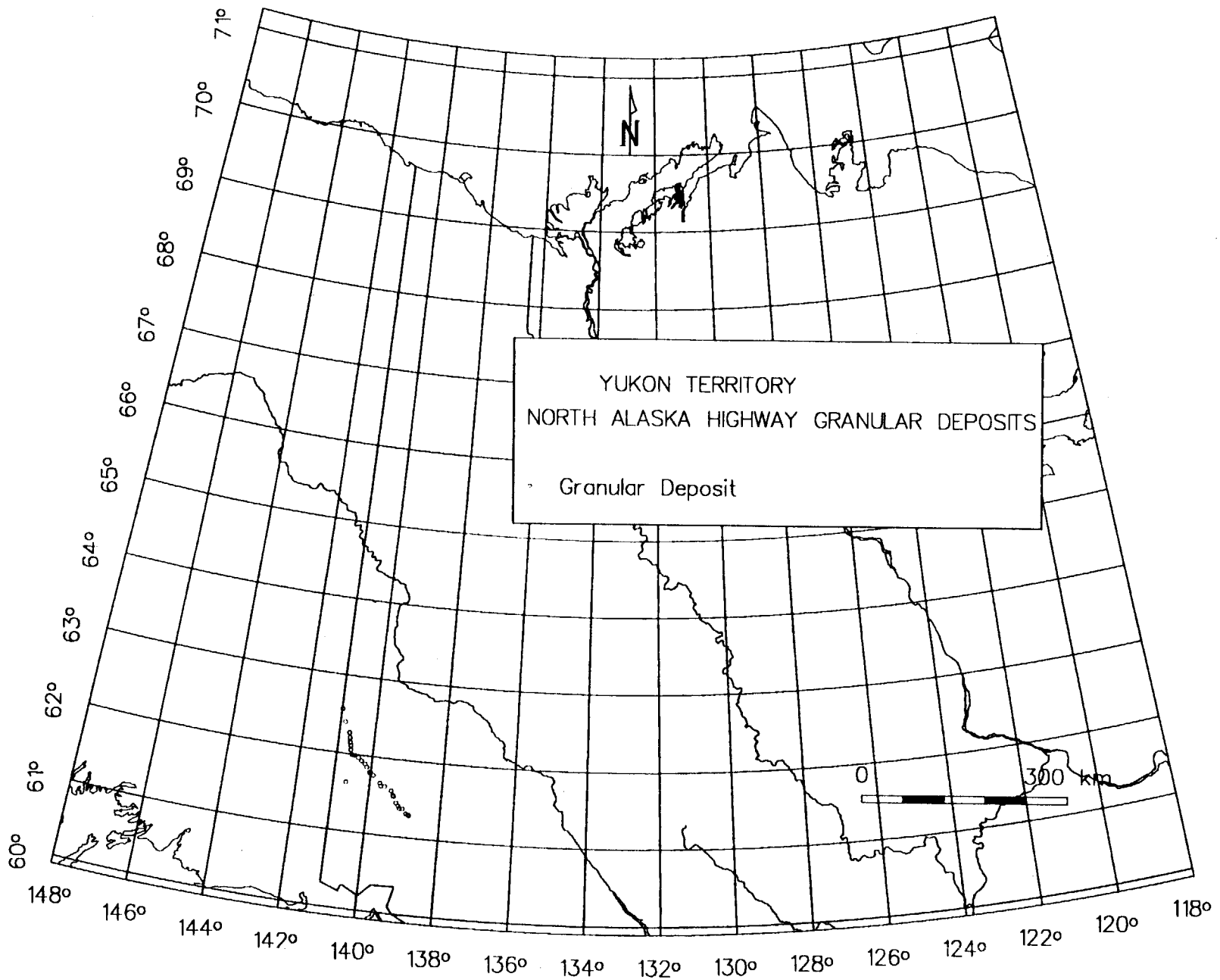
YUKON TERRITORY NORTH ALASKA HIGHWAY Granular Deposits

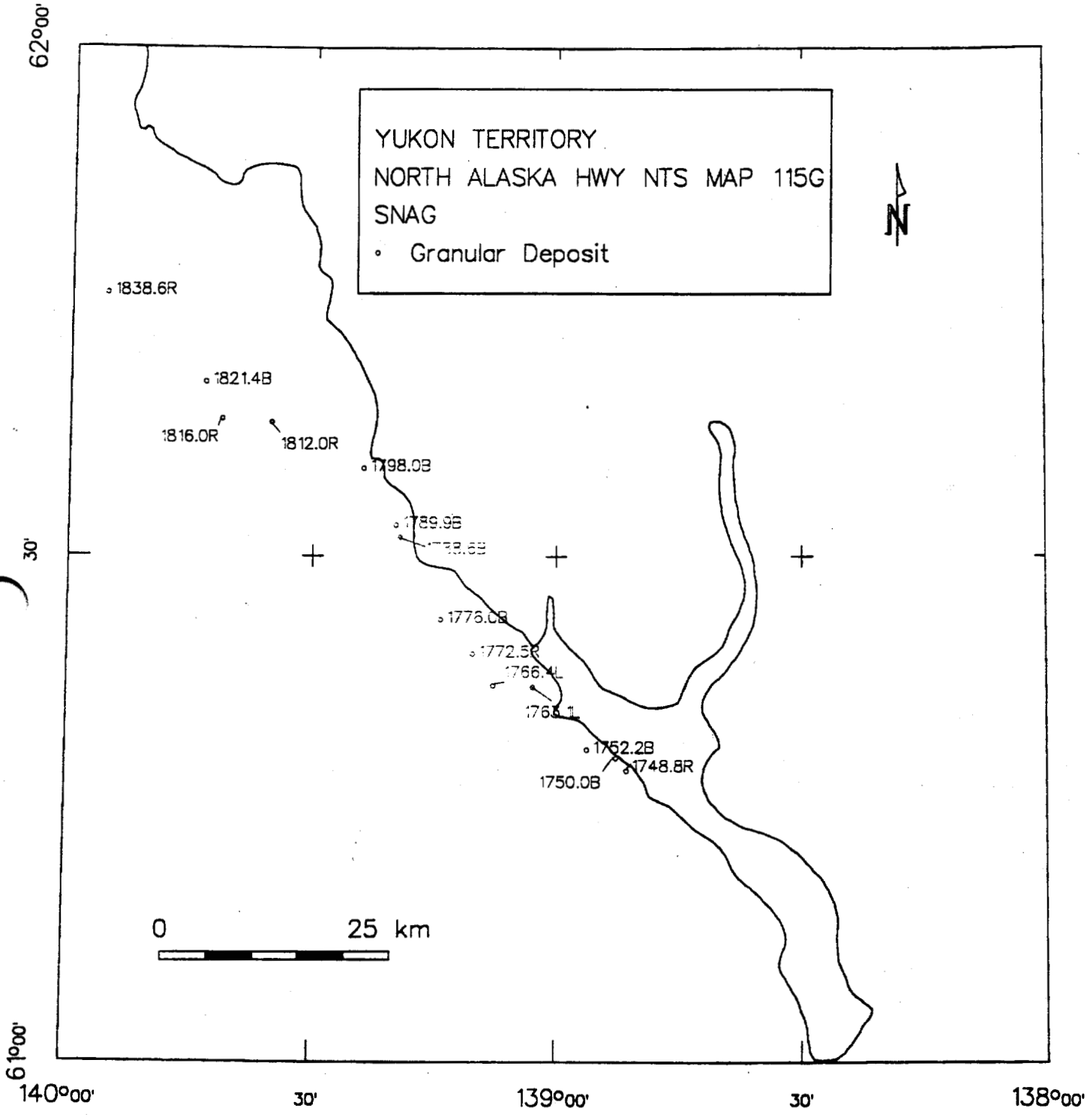
Created By: Hal Leadlay

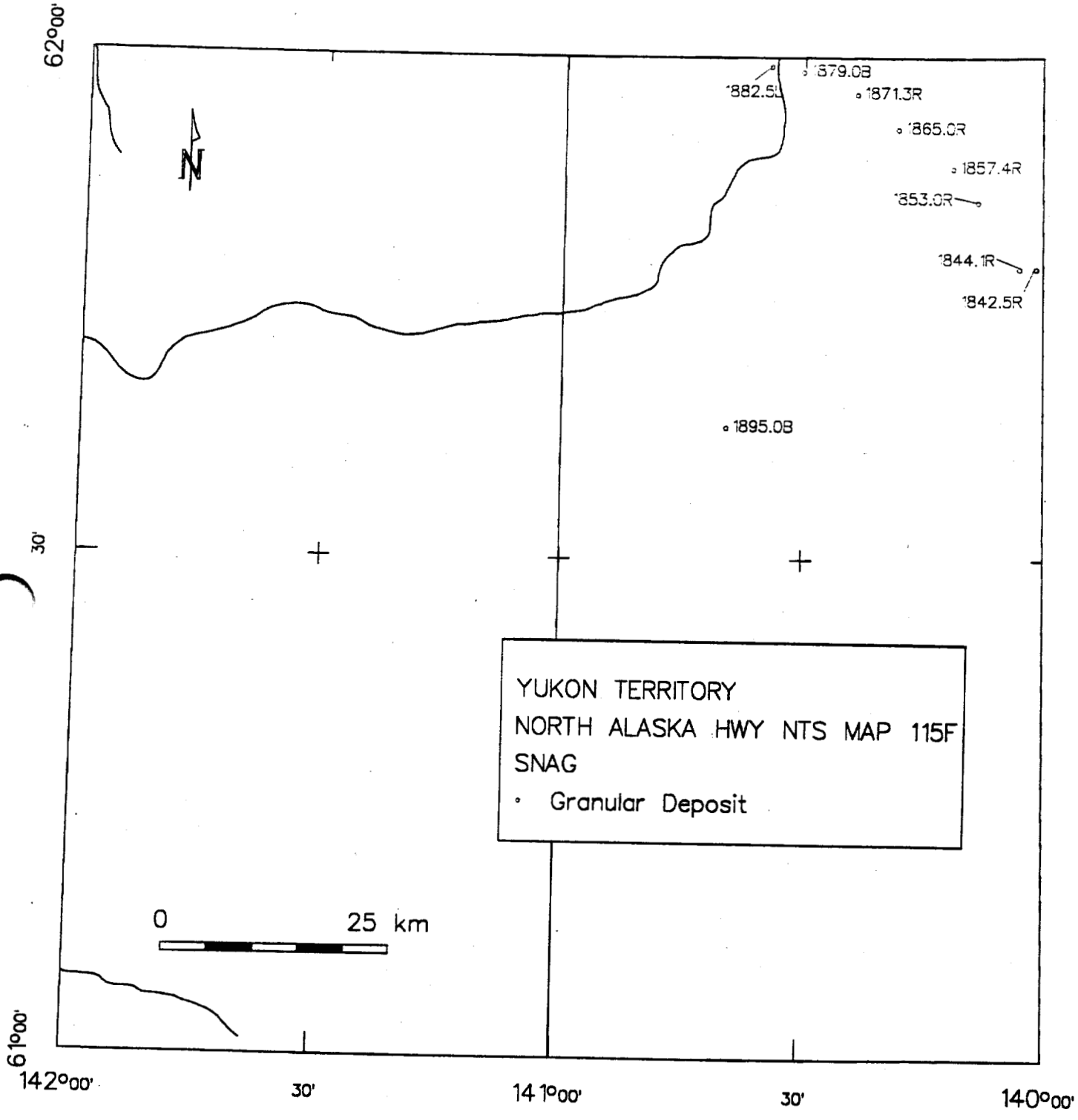
Technical Advisor: Steve Rozak

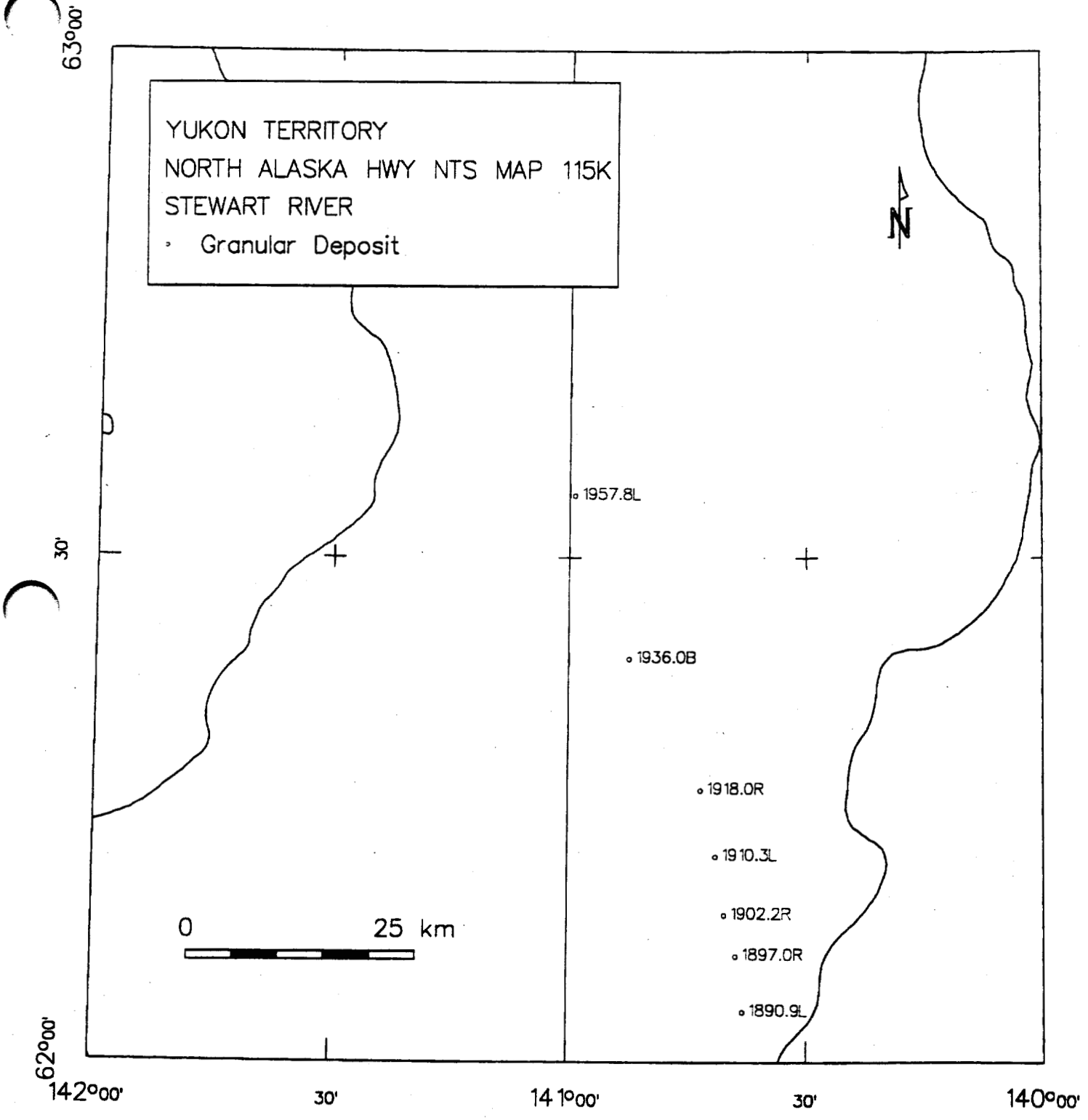
Autumn 1993

Land Management Division
Indian and Northern Affairs Canada


YUKON TERRITORY
NORTH ALASKA HIGHWAY GRANULAR DEPOSITS
Granular Deposit
N
0
300 km
71°
70°
69°
68°
67°
66°
65°
64°
63°
62°
61°
60°
148°
146°
144°
142°
140°
138°
136°
134°
132°
130°
128°
126°
124°
122°
120°
118°


YUKON TERRITORY
NORTH ALASKA HWY NTS MAP 115G
SNAG
Granular Deposit
N
1838.6R
1821.4B
1816.0R
1812.0R
1798.0B
1789.9B
1776.0B
1772.5B
1766.4L
1762.2B
1748.8R
1750.0B
0
25 km
62°00'
30'
61°00'
140°00'
30'
139°00'
30'
138°00'


62°00'
30'
61°00'
142°00'
30'
141°00'
30'
140°00'
1882.5B
1879.0B
1871.3R
1865.0R
1857.4R
1853.0R
1844.1R
1842.5R
1895.0B
YUKON TERRITORY
NORTH ALASKA HWY NTS MAP 115F
SNAG
Granular Deposit
0
25 km


YUKON TERRITORY
NORTH ALASKA HWY NTS MAP 115K
STEWART RIVER
Granular Deposit
N
1957.8L
1936.0B
1918.0R
1910.3L
1902.2R
1897.0R
1890.9L
0
25 km
63°00'
30'
62°00'
142°00'
30'
141°00'
30'
140°00'

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1748.8R NTS MAP REFERENCE : 115G/7

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Scrap Metal Dump
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:1000
PLAN DIG. NUMBER :
AREA : 0.8

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-017
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:250000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 5.8 km North of Destr. Bay
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1748.8
OFFSET - DIRECTION : R
- DISTANCE : 150

SITE ACCESS
ACCESS LENGTH : 170
CONDITION : Developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 614900
NORTHING : 6796640
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow

DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Scrap Metal Dump Site, Material silty

STOCKPILE TYPE : None
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Fair

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1982
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Very good
BOREHOLES - NUMBER : 15
- DEPTH : 2.6-5.8-6.0

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 19
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
AREA DRAINAGE : Well drained
VEGETATION : Partially stripped of overburden; dense Spruce
PERMAFROST FEATURES :
ACTIVE LAYER THICKNESS :

LANDFORM : Outwash
TOPOGRAPHY : Undulating
SLOPE : Gentle/SE
SITE DESCRIPTION DATE : 01/01/82

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, silty
- THICKNESS : 0.0-1.9-5.8

OVERBURDEN - TYPE : PEAT;SILT;CLAY
- THICKNESS : 0.2-3.9-6.0
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	5	GM
MOISTURE CONTENT	9	3-5-8
PARTICLE SIZE ANALYSIS	5	GRAVEL(%) : 38-56-79 SAND(%) : 10-23-32 FINES(%) : 11-21-31
		D-50 : 01500-07600-20000 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 11,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 11,000
ANNUAL RECOVERABLE : 5,000

TOTAL VOLUME : 11,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1750.0B NTS MAP REFERENCE : 115G/7

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Lewis Creek
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 57.7

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-008,010,011,015,017
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 9.7 km North of Burwash Landing
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1750.0
OFFSET - DIRECTION : R
- DISTANCE : 70, 1700

SITE ACCESS
ACCESS LENGTH : 15
CONDITION : Developed: Undeveloped
SOURCE ACCESS : Existing pit access; undisturbed

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 613700
NORTHING : 6798000
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active; Non-active
PAST USE : Borrow; Undeveloped

DEVELOPMENT - POTENTIAL : Very good
- CONSTRAINTS : P.W.C. developing part of area

STOCKPILE TYPE : Pit Run (not screened); none
STOCKPILE QUANTITY : 10,000 cu m
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Good; NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1988
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Excellent
BOREHOLES - NUMBER : 17
- DEPTH : 6.0-8.6-18.3

TESTPITS - NUMBER : 5
- DEPTH : 3.0-3.2-3.4

TEST HOLE DENSITY : 0.4
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Well drained
VEGETATION : Partially stripped of overburden; dense Black Spruce,treeless meadow
PERMAFROST FEATURES : Vx,Nbn,Nbe
ACTIVE LAYER THICKNESS : 0.0-1.5-3.3

LANDFORM : Fan,Kame Terrace
TOPOGRAPHY : Hummocky
SLOPE : Medium/NE
SITE DESCRIPTION DATE : 06/12/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, trace silt
- THICKNESS : 0.0-5.4-17.0

OVERBURDEN - TYPE : PEAT;ORGANIC SILT
- THICKNESS : 0.0-0.9-10.
UNDERBURDEN - TYPE : SILT;SAND-SILT

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	19	GM/GW
MOISTURE CONTENT	54	2-4-10
PARTICLE SIZE ANALYSIS	19	GRAVEL(%) : 44-60-95 SAND(%) : 4-34-47 FINES(%) : 1-6-26
		D-50 : 02500-07950-20000 OVERSIZE(%) : 0-12-20
PETROGRAPHIC NUMBER	2	102-UN-102

OTHER TESTS : LA_Abrasion-01-13.4;SULPH_SD_MG-01-0.33

Material Quantity

CLASS 1 : 370,000
CLASS 2 : 22,300
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 5,881,500
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 392,300

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1752.2B

NTS MAP REFERENCE : 115G/7

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Halfbreed Creek
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10,000
PLAN DIG. NUMBER :
AREA : 55

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-008,010,011,015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 7.4 km South of Burwash Landing
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1752.2
OFFSET - DIRECTION : R
- DISTANCE : 100; 1650

SITE ACCESS
ACCESS LENGTH : 1650
CONDITION : Developed; undeveloped
SOURCE ACCESS : Existing Road; trail

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 610500
NORTHING : 6798800
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active; Non-active
PAST USE : Borrow; Undeveloped

STOCKPILE TYPE : Pit run (not screened): None
STOCKPILE QUANTITY : 10,000 cu m; NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :

DEVELOPMENT - POTENTIAL : Very Good
- CONSTRAINTS : Flooding may occur during spring runoff

PERFORMANCE RATING :Good; NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Very Good
BOREHOLES - NUMBER : 7
- DEPTH : 8.8-10.1-11.6

TESTPITS - NUMBER : 11
- DEPTH : 1.5-3.4-4.5

TEST HOLE DENSITY : 0.3
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
LANDFORM : Fan
AREA DRAINAGE : Well drained
VEGETATION : Dense Spruce and Poplar and shrubs
PERMAFROST FEATURES : Vx,Nbn
ACTIVE LAYER THICKNESS : 0.0-0.5-0.8

TOPOGRAPHY : Hummocky
SLOPE : Gently /West

SITE DESCRIPTION DATE : 06/13/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL AND SAND - some silt
- THICKNESS : 0.0-3.9-10.5

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-1.2-3.5
UNDERBURDEN - TYPE : SILT;CLAY

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	14	GM/GW
MOISTURE CONTENT	25	1-5-15
PARTICLE SIZE ANALYSIS	14	GRAVEL(%) : 24-53-66 SAND(%) : 29-41-59 FINES(%) : 2-6-17
		D-50 : 00450-06020-10000 OVERSIZE(%) : 0-24-35
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 : 354,000
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 3,400,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 354,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1763.1L

NTS MAP REFERENCE : 115G/6

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : MP 1095.6
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:1000
PLAN DIG. NUMBER :
AREA : 13.5

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-017
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:250000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.6 km North Burwash Landing Airstrip
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1763.1
OFFSET - DIRECTION : L
- DISTANCE : 100

SITE ACCESS
ACCESS LENGTH : 20
CONDITION : Developed
SOURCE ACCESS : Existing Pit Access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 604360
NORTHING : 6805470
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow

DEVELOPMENT - POTENTIAL : Very Good
- CONSTRAINTS : None

STOCKPILE TYPE : Pit run (not screened)
STOCKPILE QUANTITY : 1000 cu m
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Good

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1982
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Very good
BOREHOLES - NUMBER : 20
- DEPTH : 1.0-4.6-6.0

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 1.5
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Moderately well drained
VEGETATION : Partially stripped of overburden; dense Spruce; waste piles
PERMAFROST FEATURES : None
ACTIVE LAYER THICKNESS :

LANDFORM : Fan

TOPOGRAPHY : Gently sloping
SLOPE : Gentle

SITE DESCRIPTION DATE : 01/01/01

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - some sand, trace silt
- THICKNESS : 0.0-4.0-6.0

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-0.6-3.8
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	2	GP/GW
MOISTURE CONTENT	31	1-2-8
PARTICLE SIZE ANALYSIS	7	GRAVEL(%) : 58-80-96 SAND(%) : 3-17-36 FINES(%) : 1-3-7
		D-50 : 08600-14500-19500 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER	3	108-112-116

OTHER TESTS : LA_Abrasion-03-19.3;SULPH_SD_MA-03-1.93

Material Quantity

CLASS 1 : 90,000
CLASS 2 :
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 200,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 90,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1766.4L

NTS MAP REFERENCE : 115G/6

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Duke River
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 90

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-006,011,015,018
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 2.0 km South of Duke River Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1766.4
OFFSET - DIRECTION : L
- DISTANCE : 150

SITE ACCESS
ACCESS LENGTH : 50
CONDITION : Undeveloped
SOURCE ACCESS : Along old pipeline right of way

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 600000
NORTHING : 6805500
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Undeveloped

STOCKPILE TYPE : None
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :

DEVELOPMENT - POTENTIAL : Excellent
- CONSTRAINTS : P.W.C. starting to develop new pit

PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1988
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 6
- DEPTH : 4.0-8.2-10.0

TESTPITS - NUMBER : 5
- DEPTH : 1.4-2.6-3.6

TEST HOLE DENSITY : 0.1
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Well Drained
VEGETATION : Partially stripped of overburden; dense Black Spruce
PERMAFROST FEATURES : Vx,Vs,Vr,Vc,Nbn
ACTIVE LAYER THICKNESS : 0.0-2.4-9.2

LANDFORM : Fan

TOPOGRAPHY : Gently Sloping
SLOPE : Gentle/Duke River

SITE DESCRIPTION DATE : 08/17/78

Source Stratigraphy

GRANULAR - TYPE : GRAVEL AND SAND - trace silt
- THICKNESS : 1.0-5.2-10.0

OVERBURDEN - TYPE : SILT;PEAT;ASH;ORGANIC SAND
- THICKNESS : 0.0-0.5-1.4
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	13	GP/GM
MOISTURE CONTENT	35	1-5-12
PARTICLE SIZE ANALYSIS	13	GRAVEL(%) : 41-55-68 SAND(%) : 28-38-48 FINES(%) : 3-7-17
		D-50 : 00400-06400-12500 OVERSIZE(%) : 0-16-25
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 : 400,000
CLASS 2 :
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 8,100,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 400,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1772.5R

NTS MAP REFERENCE : 115G/G

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : MP 1101.3
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:300 Ft
PLAN DIG. NUMBER :
AREA : 20.9

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-002,004
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 4.1 km North of Duke River Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1772.5
OFFSET - DIRECTION : R
- DISTANCE : 500

SITE ACCESS
ACCESS LENGTH : 450
CONDITION : Developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 597655
NORTHING : 6808920
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-Active
PAST USE : Borrow

DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Silt content

STOCKPILE TYPE : None
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Good

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1972
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 14
- DEPTH : 1.8-3.0-4.6

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 0.7
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Moderately well drained
VEGETATION : Partially stripped of overburden; dense Spruce
PERMAFROST FEATURES :
ACTIVE LAYER THICKNESS :

LANDFORM : Fan

TOPOGRAPHY : Gently sloping
SLOPE : Gentle/South

SITE DESCRIPTION DATE : 01/01/77

Source Stratigraphy

GRANULAR - TYPE : SAND - silty, some gravel
- THICKNESS : 0.8-2.3-4.6

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-0.7-1.5
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	8	SM
MOISTURE CONTENT	0	NA
PARTICLE SIZE ANALYSIS	5	GRAVEL(%) : 4-20-52 SAND(%) : 25-48-62 FINES(%) : 17-32-47
		D-50 : 00200-02450-09500 OVERSIZE(%) : Unknown-
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 50,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 50,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 50,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1776.0B

NTS MAP REFERENCE : 115G/6

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Burwash Creek
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 58.4

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-014,015,016,018
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:24000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 0.3 km North Burwash Creek
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1776.0
OFFSET - DIRECTION : R
- DISTANCE : 200; 400

SITE ACCESS
ACCESS LENGTH : 50
CONDITION : Developed; Undeveloped
SOURCE ACCESS : Existing pit access; Trail

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 594000
NORTHING : 6812600
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial/Private
STATUS : Active
PAST USE : Borrow; Mining claims
DEVELOPMENT - POTENTIAL : Good
- CONSTRAINTS : Private mining claims

STOCKPILE TYPE : 19mm Crushed Gravel; NA
STOCKPILE QUANTITY : 8000 cu m; None
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Very Good; NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1988
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Excellent
BOREHOLES - NUMBER : 14
- DEPTH : 1.0-7.7-10.0
TESTPITS - NUMBER : 13
- DEPTH : 1.1-2.3-3.7
TEST HOLE DENSITY : 0.5
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Well drained with some ponding
VEGETATION : Partially stripped of overburden; moderately dense to dense Spruce
PERMAFROST FEATURES : Nf,Nbe,Vc
ACTIVE LAYER THICKNESS :
LANDFORM : Outwash;Fan
TOPOGRAPHY : Hummocky
SLOPE : Medium
SITE DESCRIPTION DATE : 01/01/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL AND SAND - trace silt
- THICKNESS : 0.0-4.1-9.7
OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-0.9-5.6
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	9	GW/GP
MOISTURE CONTENT	45	2-5-12
PARTICLE SIZE ANALYSIS	9	GRAVEL(%) : 33-58-66 SAND(%) : 29-38-55 FINES(%) : 1-4-12
		D-50 : 03000-08600-11000 OVERSIZE(%) : 0-9-25
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 : 283,000
CLASS 2 :
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 4,560,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 283,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1788.6B NTS MAP REFERENCE : 115G/11

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Quill Creek
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 5.1

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-009,010,015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:24000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 12.3 km North Burwash Creek
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1788.6
OFFSET - DIRECTION : R
- DISTANCE : 50, 250

SITE ACCESS
ACCESS LENGTH : 0
CONDITION : Undeveloped
SOURCE ACCESS : Existing trails

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 589200
NORTHING : 6821500
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-Active
PAST USE : Undeveloped

STOCKPILE TYPE : None
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :

DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Possible land lease, closeness to highway

PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 4
- DEPTH : 7.2-9.0-10.2

TESTPITS - NUMBER : 5
- DEPTH : 1.3-3.1-4.2

TEST HOLE DENSITY : 1.7
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Moderately well drained
VEGETATION : meadow, dense Poplar, Alder, some Willow
PERMAFROST FEATURES : Vc,Vx,Nbn
ACTIVE LAYER THICKNESS : 0.0-0.3-0.5

LANDFORM : Terrace
TOPOGRAPHY : Flat
SLOPE : Flat
SITE DESCRIPTION DATE : 06/17/81

Source Stratigraphy

GRANULAR - TYPE : SAND - gravelly, silty
- THICKNESS : 0.0-2.0-4.5

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 1.3-3.3-9.2
UNDERBURDEN - TYPE : SILT-SAND

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	3	SM
MOISTURE CONTENT	3	5-6-8
PARTICLE SIZE ANALYSIS	3	GRAVEL(%) : 10-33-62 SAND(%) : 19-44-64 FINES(%) : 17-23-32
		D-50 : 00140-03040-05500 OVERSIZE(%) : UN-8-UN
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 :
CLASS 4 : 34,000
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 173,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 34,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1789.9B NTS MAP REFERENCE : 115G/11

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : MP 1112.8
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:300 Ft
PLAN DIG. NUMBER :
AREA : 13.4

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-002,004
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 13.6 km North Burwash Creek
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1789.9
OFFSET - DIRECTION : L
- DISTANCE : 125

SITE ACCESS
ACCESS LENGTH : 0
CONDITION : Developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 588735
NORTHING : 6822820
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow
DEVELOPMENT - POTENTIAL : Fair; Good
- CONSTRAINTS : Pit possibly depleted

STOCKPILE TYPE : Unknown
STOCKPILE QUANTITY : NA; 3000 cu m
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Fair; Good

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1972
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Fair
BOREHOLES - NUMBER : 24
- DEPTH : 0.6-3.2-4.6
TESTPITS - NUMBER : 0
- DEPTH : NA
TEST HOLE DENSITY : 1.8
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
LANDFORM : Fan
TOPOGRAPHY : Hummocky
AREA DRAINAGE : Poorly drained
SLOPE : Steep
VEGETATION : Strips of Black Spruce and cleared areas
PERMAFROST FEATURES :
ACTIVE LAYER THICKNESS :
SITE DESCRIPTION DATE : 01/01/77

Source Stratigraphy

GRANULAR - TYPE : SAND AND GRAVEL - some silt
- THICKNESS : 0.6-3.2-4.6
OVERBURDEN - TYPE : PEAT;ORGANIC SILT
- THICKNESS : 0.0-0.3-0.6
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	13	SM/GM
MOISTURE CONTENT	0	NA
PARTICLE SIZE ANALYSIS	13	GRAVEL(%) : 22-35-60 SAND(%) : 27-45-57 FINES(%) : 13-20-24
		D-50 : 00400-01450-05000 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER	1	UN-120-UN
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 300,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 300,000
ANNUAL RECOVERABLE : 20,000

TOTAL VOLUME : 300,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1798.0B NTS MAP REFERENCE : 115G/11

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Kluane River
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 166.

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-015,018
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:24000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 0.8 km South Kluane Village Lodge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1798.0
OFFSET - DIRECTION : R
- DISTANCE : 600; 100

SITE ACCESS
ACCESS LENGTH : 50
CONDITION : Developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 585000
NORTHING : 6829000
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow; Undeveloped

DEVELOPMENT - POTENTIAL : Very Good
- CONSTRAINTS : Private Land in area

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Fair; NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1988
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Very Good
BOREHOLES - NUMBER : 15
- DEPTH : 1.4-4.4-10.0

TESTPITS - NUMBER : 8
- DEPTH : 1.1-3.5-4.3

TEST HOLE DENSITY : 0.5
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Well drained
VEGETATION : Dense Spruce and Poplar
PERMAFROST FEATURES : Nf
ACTIVE LAYER THICKNESS :

LANDFORM : Terrace

TOPOGRAPHY : Gently sloping
SLOPE : Gentle

SITE DESCRIPTION DATE : 01/01/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL AND SAND - trace silt
- THICKNESS : 0.0-2.3-9.4

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-1.8-4.8
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	18	GM/SM
MOISTURE CONTENT	17	1-4-11
PARTICLE SIZE ANALYSIS	17	GRAVEL(%) : 19-50-82 SAND(%) : 17-45-72 FINES(%) : 1-5-12
		D-50 : 00840-07160-16000 OVERSIZE(%) : 0-3-5
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 : 411,600
CLASS 2 : 323,400
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 4,400,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 735,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1812.0R NTS MAP REFERENCE : 115G/12

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES :
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 39.3

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 3.2 km South Microwave 140
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1812.0
OFFSET - DIRECTION : R
- DISTANCE : 1600

SITE ACCESS
ACCESS LENGTH : 1600
CONDITION : Undeveloped
SOURCE ACCESS : KP 1812.0

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 574800
NORTHING : 6833800
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-Active
PAST USE : Undeveloped
DEVELOPMENT - POTENTIAL : Poor-Fair
- CONSTRAINTS : Distance to source from Alaska Highway

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31
LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Fair
BOREHOLES - NUMBER : 3
- DEPTH : 3.0-7.5-10.2
TESTPITS - NUMBER : 0
- DEPTH : NA
TEST HOLE DENSITY : 0.1
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
AREA DRAINAGE : Well drained
VEGETATION : Dense Black Spruce
PERMAFROST FEATURES : Vs,Nbe
ACTIVE LAYER THICKNESS : 0.1-0.2-0.2
LANDFORM : Moraine
TOPOGRAPHY : Rolling
SLOPE : Medium/South
SITE DESCRIPTION DATE : 06/06/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - silty, sandy
- THICKNESS : 0.0-2.4-5.6
OVERBURDEN - TYPE : PEAT;ASH;SILT
- THICKNESS : 1.4-4.4-10.
UNDERBURDEN - TYPE : SILT;BEDROCK

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	0	NA
MOISTURE CONTENT	0	NA
PARTICLE SIZE ANALYSIS	0	GRAVEL(%) : UN-UN-UN SAND(%) : UN-UN-UN FINES(%) : UN-UN-UN D-50 : UN-UN-UN OVERSIZE(%) : UNKNOWN
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 :
CLASS 4 : 300,000
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 300,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 300,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1816.0R

NTS MAP REFERENCE : 115G/12

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : MP 1129
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:400 Ft
PLAN DIG. NUMBER :
AREA : 8.2

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-002,004
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 3.8 km South Donjek River Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1816.0
OFFSET - DIRECTION : R
- DISTANCE : 150

SITE ACCESS
ACCESS LENGTH : 20
CONDITION : Developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 569400
NORTHING : 6834050
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow
DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Silty material

STOCKPILE TYPE : 19 mm Crushed Gravel (silty)
STOCKPILE QUANTITY : 5000 cu m
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Fair

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1971
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 26
- DEPTH : 2.1-4.4-5.8
TESTPITS - NUMBER : 0
- DEPTH : NA
TEST HOLE DENSITY : 3.2
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
LANDFORM : Fan
TOPOGRAPHY : Sloped
AREA DRAINAGE : Moderately well drained
SLOPE : Moderate
VEGETATION : Dense Black Spruce and Poplar
PERMAFROST FEATURES :
ACTIVE LAYER THICKNESS :
SITE DESCRIPTION DATE : 01/01/77

Source Stratigraphy

GRANULAR - TYPE : SAND - silty, gravelly
- THICKNESS : 1.2-3.7-5.8
OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-0.8-3.4
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	15	SM
MOISTURE CONTENT	0	NA
PARTICLE SIZE ANALYSIS	15	GRAVEL(%) : 15-24-57 SAND(%) : 28-41-49 FINES(%) : 15-35-45
		D-50 : 00140-00860-07500 OVERSIZE(%) : UN-UN-UN
PETROGRAPHIC NUMBER	1	UN-110-UN

OTHER TESTS : 0

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 180,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 180,000
ANNUAL RECOVERABLE : 20,000

TOTAL VOLUME : 180,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1821.4B NTS MAP REFERENCE : 115G/12

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Donjek River
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 38.2

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-009,010,013,015,018
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.0 km South Donjek River Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1821.4
OFFSET - DIRECTION : R
- DISTANCE : 400; 400

SITE ACCESS
ACCESS LENGTH : 20
CONDITION : Developed/Undeveloped
SOURCE ACCESS : Existing pit access/1822.0

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 567500
NORTHING : 6838000
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow; Undeveloped

DEVELOPMENT - POTENTIAL : Good
- CONSTRAINTS : Old pipeline, High water table, Overburden

STOCKPILE TYPE : Pit Run; NA
STOCKPILE QUANTITY : 5000 cu m; NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Good; NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1988
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Excellent
BOREHOLES - NUMBER : 21
- DEPTH : 1.4/5.5/11.9

TESTPITS - NUMBER : 7
- DEPTH : 1.2/1.9/2.6

TEST HOLE DENSITY : 0.7
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Well Drained with localized ponding
VEGETATION : Partially stripped of overburden; Sparse to Dense Spruce and Poplar
PERMAFROST FEATURES : Vx,Vc,Vr,Nbn,Nbe,Nf
ACTIVE LAYER THICKNESS : 0.0-0.3-1.5

LANDFORM : Terrace
TOPOGRAPHY : Gently rolling
SLOPE : Gentle
SITE DESCRIPTION DATE : 09/08/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL AND SAND - trace silt
- THICKNESS : 0.0-3.4-9.5

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-1.1-8.0
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	39	GP/GW/GM
MOISTURE CONTENT	51	4-8-12
PARTICLE SIZE ANALYSIS	39	GRAVEL(%) : 33-54-70 SAND(%) : 17-41-64 FINES(%) : 1-5-21
		D-50 : 01200-06300-10000 OVERSIZE(%) : 0-1-3
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 : 179,400
CLASS 2 : 123,200
CLASS 3 : 477,400
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 2,089,000
ANNUAL RECOVERABLE : 30,000

TOTAL VOLUME : 780,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1838.6R NTS MAP REFERENCE : 115G/13

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES :
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 7.5

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 5.7 km South Edith Creek Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1838.6
OFFSET - DIRECTION : R
- DISTANCE : 320

SITE ACCESS
ACCESS LENGTH : 400
CONDITION : Undeveloped
SOURCE ACCESS : KP 1838.6

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 556500
NORTHING : 6847500
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-active
PAST USE : Undeveloped

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :

DEVELOPMENT - POTENTIAL : Poor
- CONSTRAINTS : Thick overburden, Steep, More testing required

PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 1
- DEPTH : UN-103-UN

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 0.1
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
LANDFORM : Fan
TOPOGRAPHY : Rolling
AREA DRAINAGE : Well drained
SLOPE : Steep/South
VEGETATION : Dense mixture of White and Black Spruce
PERMAFROST FEATURES : Nbe
ACTIVE LAYER THICKNESS : UN-0.1-UN
SITE DESCRIPTION DATE : 06/09/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL AND SAND - trace silt
- THICKNESS : UN-66.3-UN

OVERBURDEN - TYPE : PEAT;ASH;SAND
- THICKNESS : UN-4.0-UN
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	0	GM
MOISTURE CONTENT	0	NA
PARTICLE SIZE ANALYSIS	0	GRAVEL(%) : NA SAND(%) : NA FINES(%) : NA
		D-50 : NA OVERSIZE(%) : NA
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 472,500
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 472,500
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 472,500

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1842.5R

NTS MAP REFERENCE : 115F/16

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Lake Creek
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 47.1

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.8 km South Edith Creek Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1842.5
OFFSET - DIRECTION : R
- DISTANCE : 400

SITE ACCESS
ACCESS LENGTH : 100
CONDITION : Developed
SOURCE ACCESS : Trail

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 552000
NORTHING : 6851000
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Undeveloped; Old roadway

DEVELOPMENT - POTENTIAL : Good
- CONSTRAINTS : Old pipeline, high spring water table

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Fair
BOREHOLES - NUMBER : 3
- DEPTH : 4.0-5.7-8.6

TESTPITS - NUMBER : 1
- DEPTH : UN-2.0-UN

TEST HOLE DENSITY : 0.1
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
AREA DRAINAGE : Moderately well drained
VEGETATION : Partially stripped of overburden; dense Black Spruce with Birch
PERMAFROST FEATURES : Vc,Vr,Vs,Nbe,Nbn
ACTIVE LAYER THICKNESS : 0.20.7-2.0

LANDFORM : Moraine
TOPOGRAPHY : Knolls
SLOPE : Medium/SW
SITE DESCRIPTION DATE : 06/23/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL AND SAND - trace silt
- THICKNESS : 0.0-1.5-3.6

OVERBURDEN - TYPE : SILT;PEAT
- THICKNESS : 0.8-3.3-5.0
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	1	GM
MOISTURE CONTENT	1	UN-4-UN
PARTICLE SIZE ANALYSIS	1	GRAVEL(%) : UN-49-UN SAND(%) : UN-45-UN FINES(%) : UN-6-UN
		D-50 : UN-05000-UN OVERSIZE(%) : NA
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 110,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 110,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 110,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1844.1R

NTS MAP REFERENCE : 115F/16

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Edith Creek
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:NA
PLAN DIG. NUMBER :
AREA : 8.9

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-002,004
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:300
MAP DIGITIZER NUMBER:

Location Details

LOCATION : Adjacent to Edith Creek
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1844.1
OFFSET - DIRECTION : R
- DISTANCE : 450

SITE ACCESS
ACCESS LENGTH : 450
CONDITION : Developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 550175
NORTHING : 6850960
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow

DEVELOPMENT - POTENTIAL : Poor-Fair
- CONSTRAINTS : Nearly exhausted; high water table

STOCKPILE TYPE : 19 mm Crushed Gravel
STOCKPILE QUANTITY : 5000 cu m
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Good

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1970
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Fair to Good
BOREHOLES - NUMBER : 21
- DEPTH : 2.1-3.1-7.6

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 2.4
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
AREA DRAINAGE : Moderately well drained
VEGETATION : Partially stripped of overburden; dense Black Spruce
PERMAFROST FEATURES :
ACTIVE LAYER THICKNESS :

LANDFORM : Hummock
TOPOGRAPHY : Hummocky
SLOPE : medium/South
SITE DESCRIPTION DATE : 01/01/77

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, trace silt
- THICKNESS : 2.1-3.0-7.6

OVERBURDEN - TYPE : PEAT;ORGANIC SAND
- THICKNESS : 0.0-0.2-1.1
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	5	GW/GP
MOISTURE CONTENT	0	NA
PARTICLE SIZE ANALYSIS	5	GRAVEL(%) : 58-71-81 SAND(%) : 17-26-39 FINES(%) : 2-2-3
		D-50 : 07500-09800-12000 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER	1	UN-120-UN
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 : 134,000
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 134,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 134,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1853.0R

NTS MAP REFERENCE : 115F/16

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Koidern River #1
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 48.5

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 0.7 km South Lake Creek Campground
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1853.0
OFFSET - DIRECTION : R
- DISTANCE : 250

SITE ACCESS
ACCESS LENGTH : 100
CONDITION : Developed
SOURCE ACCESS : Trail

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 545500
NORTHING : 6858300
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-active
PAST USE : Undeveloped
DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Campground near area

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 1
- DEPTH : UN-2.2-UN

TESTPITS - NUMBER : 4
- DEPTH : 2.4-3.2-3.7

TEST HOLE DENSITY : 0.1
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Well drained
VEGETATION : Dense Spruce and Aspen
PERMAFROST FEATURES : Nbn,Nf,Vs,Vr
ACTIVE LAYER THICKNESS : 0.2-1.2-3.7

LANDFORM : Fan

TOPOGRAPHY : Hummocky
SLOPE : Moderate/SW

SITE DESCRIPTION DATE : 06/18/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, silty
- THICKNESS : 0.0-1.0-2.3

OVERBURDEN - TYPE : PEAT;ASH;ORGANIC SILT
- THICKNESS : 0.8-2.0-3.7
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	2	GP
MOISTURE CONTENT	5	3-5-8
PARTICLE SIZE ANALYSIS	2	GRAVEL(%) : 61-UN-65 SAND(%) : 33-UN-37 FINES(%) : 2-UN-2
		D-50 : 09800-UN-17000 OVERSIZE(%) : 30-UN-43
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 : 300,000
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 300,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 300,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1857.4R

NTS MAP REFERENCE : 115F/16

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Long Creek
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 51.2

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-009,010,011,015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 3.7 km North Lake Creek Campground
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1857.4
OFFSET - DIRECTION : R
- DISTANCE : 150

SITE ACCESS
ACCESS LENGTH : 20
CONDITION : Developed
SOURCE ACCESS : Existing pit access at KP 1858.0

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 542700
NORTHING : 6862000
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow

DEVELOPMENT - POTENTIAL : Very Good
- CONSTRAINTS : Permafrost, some steep slopes

STOCKPILE TYPE : Pit wall stripped
STOCKPILE QUANTITY : 1000 cu m
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Good

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 6
- DEPTH : 6.8-8.8-10.2

TESTPITS - NUMBER : 4
- DEPTH : 1.7-2.4-14-

TEST HOLE DENSITY : 0.2
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
AREA DRAINAGE : Well drained
VEGETATION : Dense Black Spruce and Alder
PERMAFROST FEATURES : Vs,Vc,Vr,Nbn,Nbe
ACTIVE LAYER THICKNESS : 0.0-0.2-0.6

LANDFORM : Terrace

TOPOGRAPHY : Ridged
SLOPE : Moderate to steep

SITE DESCRIPTION DATE : 06/21/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, some silt
- THICKNESS : 0.0-3.7-7.2

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 1.0-2.2-4.2
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	4	GM/GP
MOISTURE CONTENT	11	5-13-22
PARTICLE SIZE ANALYSIS	4	GRAVEL(%) : 49-65-79 SAND(%) : 18-24-36 FINES(%) : 3-11-16
		D-50 : 04800-10000-12600 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 : 85,000
CLASS 3 : 85,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 602,700
ANNUAL RECOVERABLE : 30,000

TOTAL VOLUME : 170,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1865.OR NTS MAP REFERENCE : 115F/16

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Pickhandle Lake
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 40.3

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-009,010,011,015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:24000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 7.6 km South Koidern Bridge 2
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1865.0
OFFSET - DIRECTION : R
- DISTANCE : 200

SITE ACCESS
ACCESS LENGTH : 150
CONDITION : Undeveloped
SOURCE ACCESS : 1864.2/1866.5

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 536600
NORTHING : 6866200
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-Active
PAST USE : Undeveloped

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :

DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Marginal material (possible shale)

PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 2
- DEPTH : 3.7-5.6-7.5

TESTPITS - NUMBER : 4
- DEPTH : 1.2-2.1-2.5

TEST HOLE DENSITY : 0.2
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Colluvial,Alluvial
LANDFORM : Fan
TOPOGRAPHY : Gullies
AREA DRAINAGE : Well drained
SLOPE : Moderate to steep/SW
VEGETATION : Dense Poplar with Willow and Alder
PERMAFROST FEATURES : Nbn
ACTIVE LAYER THICKNESS : 0.3-2.4-7.5
SITE DESCRIPTION DATE : 07/23/79

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, silty
- THICKNESS : 0.0-2.0-4.0

OVERBURDEN - TYPE : ORGANIC SAND;ORGANIC SILT;PEAT
- THICKNESS : 0.2-0.5-1.2
UNDERBURDEN - TYPE : SILT;SAND-SILT

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	4	GM/SM
MOISTURE CONTENT	11	5-8-18
PARTICLE SIZE ANALYSIS	4	GRAVEL(%) : 35-43-52 SAND(%) : 27-34-39 FINES(%) : 15-24-32
		D-50 : 01000-06750-11000 OVERSIZE(%) : 0-20-39
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 :
CLASS 4 : 75,000
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 716,400
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 75,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1871.3R

NTS MAP REFERENCE : 115F/16

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES :
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 62.7

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-009,010,015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:24000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.3 km South Koidern Bridge 2
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1871.3
OFFSET - DIRECTION : R
- DISTANCE : 300

SITE ACCESS
ACCESS LENGTH : 200
CONDITION : Undeveloped
SOURCE ACCESS : 1871.3 (trail)

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 532000
NORTHING : 6870000
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-Active
PAST USE : Undeveloped

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :

DEVELOPMENT - POTENTIAL : Fair-Good
- CONSTRAINTS : Steepness, Permafrost, distance from highway

PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & Delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Very Good
BOREHOLES - NUMBER : 1
- DEPTH : UN-6.0-UN

TESTPITS - NUMBER : 10
- DEPTH : 1.0-2.1-3.4

TEST HOLE DENSITY : 0.2
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Well Drained
VEGETATION : Dense Poplar and Alder,Trace White Spruce and Birch
PERMAFROST FEATURES : Nf,Nbn,Vc,Vx
ACTIVE LAYER THICKNESS : 0.0-0.2-3.1

LANDFORM : Fan

TOPOGRAPHY : Undulating
SLOPE : Steep/West

SITE DESCRIPTION DATE : 06/23/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, trace silt
- THICKNESS : 0.0-1.9-5.0

OVERBURDEN - TYPE : ORGANIC SILT
- THICKNESS : 0.3-0.6-1.5
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	7	GM/GP
MOISTURE CONTENT	9	4-9-12
PARTICLE SIZE ANALYSIS	7	GRAVEL(%) : 42-58-64 SAND(%) : 17-28-37 FINES(%) : 6-14-21
		D-50 : 02000-08640-16000 OVERSIZE(%) : 0-20-35
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 : 400,000
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 1,055,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 400,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1879.08

NTS MAP REFERENCE : 115F/15

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : White River (South Side)
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 118.

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-008,015,018
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.9 km South White River Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1879.0
OFFSET - DIRECTION : R
- DISTANCE : 400; 450

SITE ACCESS
ACCESS LENGTH : 150
CONDITION : Developed/Undeveloped
SOURCE ACCESS : Existing pit access at KP 1880 Right

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 526000
NORTHING : 6872400
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow; Undeveloped

DEVELOPMENT - POTENTIAL : Excellent
- CONSTRAINTS : Foothills camp in area

STOCKPILE TYPE : 19 mm Crushed Gravel; NA
STOCKPILE QUANTITY : 10,000 cu m; NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Good; NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : EM-31

LAST INVESTIGATION DATE : 1988
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Excellent
BOREHOLES - NUMBER : 32
- DEPTH : 2.3-4.7-7.5

TESTPITS - NUMBER : 11
- DEPTH : 2.0-3.5-4.3

TEST HOLE DENSITY : 0.4
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
AREA DRAINAGE : Moderately well drained
VEGETATION : Partially stripped of overburden; dense Spruce,Localized treeless meadows
PERMAFROST FEATURES : Nf,Nbn,Vs,Vx
ACTIVE LAYER THICKNESS : 0.2-0.9-4.2

LANDFORM : Fan(Flood Plain)
TOPOGRAPHY : Rolling
SLOPE : Gentle
SITE DESCRIPTION DATE : 06/23/81

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, trace silt
- THICKNESS : 0.0-3.6-6.5

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-0.5-1.7
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	91	GP/GW
MOISTURE CONTENT	106	2-4-11
PARTICLE SIZE ANALYSIS	91	GRAVEL(%) : 53-70-91 SAND(%) : 6-26-42 FINES(%) : 1-4-13
		D-50 : 05500-14300-35000 OVERSIZE(%) : 0-6-10
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 : 652,400
CLASS 2 : 978,600
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 1,937,000
ANNUAL RECOVERABLE : 30,000

TOTAL VOLUME : 1,631,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1882.5L NTS MAP REFERENCE : 115F/15

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : White River (North Side)
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 60

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-010,011,013
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.6 km North White River Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1882.5
OFFSET - DIRECTION : L
- DISTANCE : 200

SITE ACCESS
ACCESS LENGTH : 200
CONDITION : Trail(undeveloped)
SOURCE ACCESS : KP 1882.5

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 522500
NORTHING : 6873000
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-Active
PAST USE : Undeveloped
DEVELOPMENT - POTENTIAL : Fair-Good
- CONSTRAINTS : Thickness of Overburden

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown
LAST INVESTIGATION DATE : 1980
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 5
- DEPTH : 7.2-10.7-14.4
TESTPITS - NUMBER : 0
- DEPTH : NA
TEST HOLE DENSITY : 0.1
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
LANDFORM : Fan
TOPOGRAPHY : Gullies
AREA DRAINAGE : Well drained
SLOPE : Steep/South
VEGETATION : Dense Spruce and Moss
PERMAFROST FEATURES : Vx,Vc,Vs,Nbn
ACTIVE LAYER THICKNESS : 0.0-0.3-2.0
SITE DESCRIPTION DATE : 09/07/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, some silt
- THICKNESS : 2.5-5.9-9.6
OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.2-1.7-5.2
UNDERBURDEN - TYPE : PEAT;SILT

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	9	GM
MOISTURE CONTENT	34	4-8-12
PARTICLE SIZE ANALYSIS	9	GRAVEL(%) : 45-54-61 SAND(%) : 28-33-39 FINES(%) : 6-13-16
		D-50 : 03500-08570-22500 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 800,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 800,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 800,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1890.9L NTS MAP REFERENCE : 115K/2

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES :
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 7.5

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-010,011
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 10 km North White River Bridge
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1890.9
OFFSET - DIRECTION : R
- DISTANCE : 200

SITE ACCESS
ACCESS LENGTH : 0
CONDITION : Developed
SOURCE ACCESS : Existing Pit Access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 519300
NORTHING : 6879600
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Undeveloped
DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Adjacent to Proposed Foothills Compressor Station

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown
LAST INVESTIGATION DATE : 1980
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 4
- DEPTH : 7.8-9.5-11.0
TESTPITS - NUMBER : 0
- DEPTH : NA
TEST HOLE DENSITY : 0.5
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
LANDFORM : Plain
TOPOGRAPHY : Gently sloping
AREA DRAINAGE : Well drained
SLOPE : Gentle
VEGETATION : Partially stripped of overburden; Dense Spruce
PERMAFROST FEATURES : Vx,Vr,Vc,Nbe
ACTIVE LAYER THICKNESS :
SITE DESCRIPTION DATE : 01/01/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, trace silt
- THICKNESS : 6.0-8.0-9.7
OVERBURDEN - TYPE : PEAT;ORGANIC SILT;CLAY
- THICKNESS : 0.8-1.5-2.1
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	8	GM/GP
MOISTURE CONTENT	0	NA
PARTICLE SIZE ANALYSIS	8	GRAVEL(%) : 51-64-77 SAND(%) : 16-26-39 FINES(%) : 5-10-25
		D-50 : 04000-09500-16000 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 : 100,000
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 100,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 100,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1895.0B

NTS MAP REFERENCE : 115K/2

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES :
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 91

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-010,013
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 0.3 km South Microwave 141
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1895.0
OFFSET - DIRECTION : R
- DISTANCE : 200; 100

SITE ACCESS
ACCESS LENGTH : 75
CONDITION : developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 518200
NORTHING : 6833000
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow; Undeveloped
DEVELOPMENT - POTENTIAL : Very Good
- CONSTRAINTS : Permafrost; Drainage

STOCKPILE TYPE : NA; NA
STOCKPILE QUANTITY : NA; NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Fair-Good; NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown
LAST INVESTIGATION DATE : 1980
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 10
- DEPTH : 5.5-9.6-14.5
TESTPITS - NUMBER : 0
- DEPTH : NA
TEST HOLE DENSITY : 0.1
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Alluvial
LANDFORM : Fan
TOPOGRAPHY : Flat
AREA DRAINAGE : Poorly drained
SLOPE : Flat
VEGETATION : Partially stripped of overburden; Dense Poplar
PERMAFROST FEATURES : Vx,Vc,Nbn
ACTIVE LAYER THICKNESS : 0.0-3.5-9.7
SITE DESCRIPTION DATE : 09/30/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, trace silt
- THICKNESS : 2.3-7.4-14.5
OVERBURDEN - TYPE : PEAT;SILT;CLAY
- THICKNESS : 0.0-2.1-4.1
UNDERBURDEN - TYPE : SILT

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	14	GM/GP
MOISTURE CONTENT	52	2-7-15
PARTICLE SIZE ANALYSIS	14	GRAVEL(%) : 34-58-80 SAND(%) : 16-31-58 FINES(%) : 3-11-31
		D-50 : 02200-12200-42000 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 : 700,000
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 700,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 700,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1897.0R

NTS MAP REFERENCE : 115K/2

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES :
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 38.1

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-011,015
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.0 km North Little Sandpete
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1897.0
OFFSET - DIRECTION : R
- DISTANCE : 500

SITE ACCESS
ACCESS LENGTH : 500
CONDITION : Undeveloped
SOURCE ACCESS : 1897.0

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 518500
NORTHING : 6885800
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Non-Active
PAST USE : Undeveloped
DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Permafrost; some shale in pit

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :NA

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1981
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Fair-Good
BOREHOLES - NUMBER : 2
- DEPTH : 9.0-UN-10.3
TESTPITS - NUMBER : 0
- DEPTH : NA
TEST HOLE DENSITY : 0.05
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
LANDFORM : Moraine
TOPOGRAPHY : Ridged
AREA DRAINAGE : Moderately well drained
SLOPE : Steep/West
VEGETATION : Moderately dense Black Spruce
PERMAFROST FEATURES : Vr,Vc,Vs,Nbn
ACTIVE LAYER THICKNESS :
SITE DESCRIPTION DATE : 01/01/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, silty
- THICKNESS : 8.1-8.5-8.9
OVERBURDEN - TYPE : PEAT;ORGANIC SILT
- THICKNESS : 0.2-1.2-2.2
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	7	GM
MOISTURE CONTENT	13	5-8-12
PARTICLE SIZE ANALYSIS	7	GRAVEL(%) : 25-44-57 SAND(%) : 24-33-44 FINES(%) : 0-23-34
		D-50 : 00425-04060-09500 OVERSIZE(%) : 0-0-0
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 150,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 150,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 150,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1902.2R

NTS MAP REFERENCE : 115K/2

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Dry Creek
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 20

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-008,010,013
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.4 km North Dry Creek Bridge 1
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1902.2
OFFSET - DIRECTION : R
- DISTANCE : 700

SITE ACCESS
ACCESS LENGTH : 10
CONDITION : Developed
SOURCE ACCESS : Existing Pit Access at KP 1902.2 Right

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 517200
NORTHING : 6890300
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow

DEVELOPMENT - POTENTIAL : Good
- CONSTRAINTS : Under PWC development at present time

STOCKPILE TYPE : 19 mm Crushed; Pitrun
STOCKPILE QUANTITY : 4000; 6000 cu m
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Good

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1980
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 6
- DEPTH : 2.4-7.9-10.0

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 0.3
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
AREA DRAINAGE : Moderately to well drained
VEGETATION : Partially stripped of overburden; brush and patches of Spruce
PERMAFROST FEATURES : Vx,Vs,Nbn,Vc
ACTIVE LAYER THICKNESS : 0.2-5.5-8.7

LANDFORM : Moraine
TOPOGRAPHY : Sloped
SLOPE : Steep/SW
SITE DESCRIPTION DATE : 09/14/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - silty, sandy
- THICKNESS : 2.1-5.5-8.7

OVERBURDEN - TYPE : PEAT;ORGANIC SILT
- THICKNESS : 0.0-1.4-3.1
UNDERBURDEN - TYPE : SAND-CLAY;BEDROCK

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	3	GM
MOISTURE CONTENT	35	5-9-18
PARTICLE SIZE ANALYSIS	3	GRAVEL(%) : 35-38-40 SAND(%) : 26-30-35 FINES(%) : 30-32-34
		D-50 : 00830-00970-01250 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 200,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 200,000
ANNUAL RECOVERABLE : 20,000

TOTAL VOLUME : 200,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1910.3L

NTS MAP REFERENCE : 115K/2

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : MP 1186.5
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:400 Ft
PLAN DIG. NUMBER :
AREA : 9.3

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-002,004,008,011
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 2.4 km South Snag Road Cut-off
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1910.3
OFFSET - DIRECTION : L
- DISTANCE : 150

SITE ACCESS
ACCESS LENGTH : 20
CONDITION : Developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 516200
NORTHING : 6896700
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :

DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Pit not in use, high silt content

PERFORMANCE RATING :Fair

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1980
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 30
- DEPTH : 1.2-3.7-22.0

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 3.3
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
AREA DRAINAGE : Well drained
VEGETATION : Partially stripped of overburden; dense Black Spruce
PERMAFROST FEATURES : Vx,Vc,Vr,Vs,Nbn
ACTIVE LAYER THICKNESS :

LANDFORM : Moraine

TOPOGRAPHY : Narrow ridge
SLOPE : Steep/South

SITE DESCRIPTION DATE : 01/01/77

Source Stratigraphy

GRANULAR - TYPE : SAND - gravelly, silty
- THICKNESS : 0.0-2.8-6.7

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-1.0-3.0
UNDERBURDEN - TYPE : SILT-SAND

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	9	SM
MOISTURE CONTENT	9	5-7-11
PARTICLE SIZE ANALYSIS	9	GRAVEL(%) : 14-31-50 SAND(%) : 32-46-61 FINES(%) : 19-23-30
		D-50 : 00400-01830-05000 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER	1	UN-120-UN

OTHER TESTS : 0

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 100,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 100,000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 100,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1918.OR NTS MAP REFERENCE : 115/H7

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES :
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 49.4

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-002,010,013
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 5.3 km North Snag Road Cut-off
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1918.0
OFFSET - DIRECTION : R
- DISTANCE : 150

SITE ACCESS
ACCESS LENGTH : 50
CONDITION : Developed
SOURCE ACCESS : Existing Pit Access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 514500
NORTHING : 6904050
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow; Undeveloped
DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : Permafrost, Shale in Area, Clearing needed

STOCKPILE TYPE : NA
STOCKPILE QUANTITY : NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Fair-Good

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & Delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1980
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Fair
BOREHOLES - NUMBER : 43
- DEPTH : 0.6-3.6-8.0

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 0.9
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glacial Moraine
LANDFORM : Moraine
TOPOGRAPHY : Hummocky
AREA DRAINAGE : Moderately well drained-some ponding
SLOPE : Moderte to Steep(SW)
VEGETATION : Patches of spruce and shrubs
PERMAFROST FEATURES : Vx, Vs, Nbn
ACTIVE LAYER THICKNESS :
SITE DESCRIPTION DATE : 06/01/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy
- THICKNESS : 0.0-1.4-5.8

OVERBURDEN - TYPE : ORGANICS, SILT
- THICKNESS : 0.0-2.0-6.0
UNDERBURDEN - TYPE : SILT;SAND-SILT

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	16	GM/SM
MOISTURE CONTENT	3	8-10-12
PARTICLE SIZE ANALYSIS	16	GRAVEL(%) : 27-52-70 SAND(%) : 16-37-54 FINES(%) : 01-11-19
		D-50 : 01400-05900-11500 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 90 000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 300 000
ANNUAL RECOVERABLE : 10,000

TOTAL VOLUME : 90 000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1936.0B

NTS MAP REFERENCE : 115K/7

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : Sawmill Pit
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 150

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-009,011,013
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.6 km North Beaver Creek Grader Station
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1936.0
OFFSET - DIRECTION : R
- DISTANCE : 300; 800

SITE ACCESS
ACCESS LENGTH : 100
CONDITION : Developed
SOURCE ACCESS : Existing pit access at KP1938.0 Right; KP1937.5 Le

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 506500
NORTHING : 6918500
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow; Undeveloped

STOCKPILE TYPE : 38 mm Screened Gravel; NA
STOCKPILE QUANTITY : 200 cu m; NA
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :

DEVELOPMENT - POTENTIAL : Very good
- CONSTRAINTS : Near Townsite and Airport; Pit at airport poor

PERFORMANCE RATING :Good; Poor

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1980
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Very Good
BOREHOLES - NUMBER : 7
- DEPTH : 6.5-10.0-11.6

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 0.05
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Glaciofluvial
AREA DRAINAGE : Moderately well drained
VEGETATION : Partially stripped of overburden; dense Spruce
PERMAFROST FEATURES : none
ACTIVE LAYER THICKNESS : 1.2-6.1-10.

LANDFORM : Plain

TOPOGRAPHY : Gently sloping
SLOPE : Gentle/North

SITE DESCRIPTION DATE : 09/04/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - sandy, trace silt
- THICKNESS : 4.1-8.9-10.5

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.2-1.0-2.4
UNDERBURDEN - TYPE :

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	13	GP/GW
MOISTURE CONTENT	40	2-4-14
PARTICLE SIZE ANALYSIS	13	GRAVEL(%) : 46-57-71 SAND(%) : 23-36-51 FINES(%) : 2-7-12
		D-50 : 03500-09400-24000 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 : 250,000
CLASS 2 :
CLASS 3 :
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 2,500,000
ANNUAL RECOVERABLE : 20,000

TOTAL VOLUME : 250,000

GRANULAR RESOURCES DATABASE - DEPOSIT SUMMARY

SOURCE NUMBER: 1957.8L

NTS MAP REFERENCE : 115K/10

PART A:DEPOSIT LOCATION AND STATUS

LOCAL NAMES : MP 1216 Pit
NEW SOURCE NUMBER :
SOURCE CROSS REF. :
SITE PLAN SCALE : 1:10000
PLAN DIG. NUMBER :
AREA : 30

STUDY NUMBER :
ALTER. STUDY NUMBER : NAHC-008,010,013
STUDY CROSS REF. :
STUDY AREA MAP SCALE: 1:50000
MAP DIGITIZER NUMBER:

Location Details

LOCATION : 1.6 km South Little Scottie Creek
CORRIDOR - NAME : Alaska Highway
- NUMBER :
KILOMETRE POST : 1960.6
OFFSET - DIRECTION : L
- DISTANCE : 500

SITE ACCESS
ACCESS LENGTH : 20
CONDITION : Developed
SOURCE ACCESS : Existing pit access

CO-ORDINATES OF DEPOSIT CENTRE
UTM ZONE : 7
EASTING : 500500
NORTHING : 6936500
LATITUDE :
LONGTITUDE :

Status/Useage Information

LAND TENURE : Territorial
STATUS : Active
PAST USE : Borrow; Undeveloped
DEVELOPMENT - POTENTIAL : Fair
- CONSTRAINTS : High silt content

STOCKPILE TYPE : Pit Run
STOCKPILE QUANTITY : 100 cu m
EXCAVATED VOLUME - FOR HIGHWAY :
- FOR PIPELINE :
PERFORMANCE RATING :Fair

PART B:SOURCE INVESTIGATION AND DESCRIPTION

INVESTIGATION LEVEL : Exploration & delineation
GEOPHYSICAL DATA : Unknown

LAST INVESTIGATION DATE : 1980
PRIORITY FOR FUTURE STUDY :

Subsurface Data

DATA QUALITY : Good
BOREHOLES - NUMBER : 6
- DEPTH : 2.0-8.2-11.3

TESTPITS - NUMBER : 0
- DEPTH : NA

TEST HOLE DENSITY : 0.3
EXPOSURES - NUMBER : 0
- DEPTH : NA

Source Description

GENERIC ORIGIN : Colluvium
AREA DRAINAGE : Well drained
VEGETATION : Partially stripped of overburden; Dense Spruce and Poplar
PERMAFROST FEATURES : Vx,Vs,Nbn
ACTIVE LAYER THICKNESS : 0.1-3.7-11.

LANDFORM : Moraine

TOPOGRAPHY : Ridge
SLOPE : Steep/SW

SITE DESCRIPTION DATE : 09/24/80

Source Stratigraphy

GRANULAR - TYPE : GRAVEL - silty, sandy
- THICKNESS : 0.8-3.0-7.6

OVERBURDEN - TYPE : PEAT;SILT
- THICKNESS : 0.0-2.3-7.0
UNDERBURDEN - TYPE : CLAY;SILT;SANDSTONE

PART C:TEST RESULTS AND MATERIAL QUALITY

TEST NAME	TESTS PERFORMED	TEST RESULTS (MINIMUM/AVERAGE/MAXIMUM)
UNIFIED SOIL CLASSIFICATION	6	GM
MOISTURE CONTENT	8	4-8-12
PARTICLE SIZE ANALYSIS	6	GRAVEL(%) : 32-47-66 SAND(%) : 13-24-31 FINES(%) : 20-29-40
		D-50 : 00850-07560-16000 OVERSIZE(%) : Unknown
PETROGRAPHIC NUMBER		NA
OTHER TESTS : 0		

Material Quantity

CLASS 1 :
CLASS 2 :
CLASS 3 : 300,000
CLASS 4 :
CLASS 5 :

PROVEN VOLUME :
PROBABLE VOLUME :
PROSPECTIVE VOLUME :

TOTAL RECOVERABLE : 300,000
ANNUAL RECOVERABLE : 20,000

TOTAL VOLUME : 300,000