

EBA Engineering Consultants Ltd.

Civil, Geotechnical and Materials Engineers



**GRANULAR RESOURCE INVENTORY
HAINES JUNCTION RESOURCE MANAGEMENT AREA**

**0201-10507
July, 1991**

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GRANULAR RESOURCE INVENTORY
HAINES JUNCTION RESOURCE MANAGEMENT AREA
YUKON TERRITORY

submitted to:

GOVERNMENT OF YUKON
COMMUNITY AND TRANSPORTATION SERVICES
LANDS BRANCH

prepared by:

EBA ENGINEERING CONSULTANTS LTD.
WHITEHORSE, YUKON

0201-10507

July, 1991

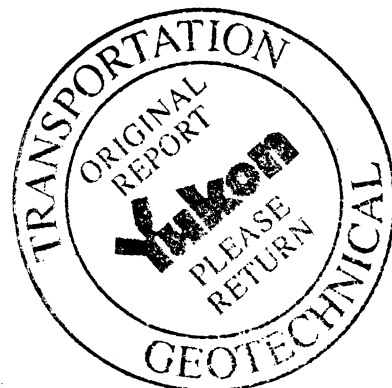


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1.0 INTRODUCTION

EBA Engineering Consultants Ltd. (EBA) has completed a compilation of existing geotechnical data for an inventory of granular resources throughout the Haines Junction Resource Management Area (RMA), Yukon. The scope of work was defined in a proposal request issued by YTG Community and Transportation Services, Lands Branch on September 21, 1990. Authorization to proceed was received from Mr. Lyle Henderson, Director, Lands Branch, on October 31, 1990.

1.1 Study Area

The study area defined in the proposal request is the Haines Junction Resource Management Area (as per the DIAND Resource Management Area Definition). Therefore, granular sources along the Alaska Highway from km 1567 to km 1753 (Champagne to Burwash Landing) and Haines Road from the B.C./Yukon border to Haines Junction.

1.2 Scope of Work

The objective of this study was to assemble and catalogue all available geotechnical data from the Haines Junction RMA study area thus permitting analysis of the area's granular resources. To achieve this objective, the following tasks were performed:

- 1) All available geotechnical and granular production data reports were compiled into a computerized Report Catalogue Database.
- 2) The available data was carefully reviewed to assess quality, quantity and usefulness for evaluating a specific granular source.
- 3) All pertinent information was utilized to create a Source Catalogue Database, consisting of a Data Sheet for each source.

- 4) Volumes and material quality were reviewed to ensure that required 50 year needs could be met.
- 5) All of the above information was summarized in this Final Report.

2.0 METHODOLOGY

2.1 Compilation of Report Catalogue

To prepare the Report Catalogue, meetings and telephone conversations were conducted to locate and obtain copies of all available reports, production records and maps containing granular resource data and information regarding land tenure and status.

Ultimately, the following series of reports were obtained:

- Regional granular resource inventory for the Haines Junction RMA (Archer Cathro Reports); land use permit maps on file with INAC - Land Use in Whitehorse, YT; and maps from Federal Lands showing Gravel Reserve locations.
- Aggregate production reports, borrow inventories, and Granular Search reports on file with YTG - Transportation Engineering Branch as well as the Shakwak Borrow Investigation Reports on file at Public Works Canada.
- Foothills Pipeline Route geotechnical investigation reports and other site specific geotechnical reports within the study area.

All reports containing pertinent geotechnical information were summarized on the Report Catalogue Data Sheets found in Appendix B. Standardization of input was controlled by the guidelines in the Data Dictionary - Report Catalogue in Appendix A.

Study numbers were assigned to each report. This identifier number consists of the following:

- Digits 1 - 4: Sponsor (e.g. INAC, _YTG, _PWC)
- Digits 5 - 6: Year (century suppressed)
- Digits 7 - 10: Coded project name, description or location (e.g., Haines Junction, DBAY for Destruction Bay, etc.)
- Digits 11 - 12: Numbers 1 - 99 to differentiate reports completed for the same sponsor in the same year in the same study area.

The reports have been presented in chronological order from oldest to most recent.

2.2 Compilation of Source Catalogue

Granular resource information found in the studies collected for this project was reviewed and compiled into distinct sources, each of which was assigned a source number. The alphanumeric source number is made up of the following:

- Digits 1 - 2: Highway designation (e.g., 01 - Alaska Hwy., 03 - Haines Road)
- Digit 3: Dash separating highway designation from kilometre posting
- Digits 4 - 8: Kilometre post to tenths, decimal suppressed (e.g., 15670 is km 1567.0)
- Digit 9: L, R or B (left, right, or both sides of highway)

Examples are:

- | | |
|-----------|---|
| 01-15670R | would refer to the source along the Alaska Highway at km 1567.0 on the right side of the highway. |
| 03-01330R | would refer to the source along the Haines Road at km 133.0 on the right side of the highway. |

The data for each "source" in the catalogue presents an accumulation of all descriptive information available in terms of source location, status, deposit description and material quantities.

All of the data for each source was summarized and tabulated on the Source Catalogue Data Sheets found in Appendix D of this report. All components of the Source Catalogue Data Sheets are defined in the Data Dictionary - Source Catalogue in Appendix C. Also included in the Granular Source Catalogue are photocopies of any available granular source maps and/or pit plans from the applicable studies.

Drawing 10507-A-01, in the attached envelope, is a 1:250 000 topographical map of the Haines Junction Resource Management Area presenting all sources delineated in this study.

2.3 Report and Source Catalogue Cross References

The Source Catalogue can be cross-referenced to the Report Catalogue (or vice versa) by comparing Study Numbers on the Source Data Sheets to the Source Numbers listed on each Report Catalogue sheet. Thus it can easily be determined which sources were described in the studies listed.

3.0 DISCUSSION AND RECOMMENDATIONS

3.1 Data Reliability

Thirty-five (35) sources were delineated from the thirteen (13) reports utilized for this study. Through data review, an adequate degree of confidence exists that there is useable gravel at each of the sources listed.

3.2 Sources Listed

All sources listed exist in areas along existing highway or access road corridors. In an area with numerous alluvial and glaciofluvial deposits, it is realistic to suggest that numerous other sources exist within the Haines Junction RMA but where little or no data exists, speculative sources were not included. Most entries in the Granular Source Catalogue have geotechnical and/or aggregate production data.

The terms of reference stated that granular sources in existing reserves should not be listed. However, it is felt that since the purpose of this study is to identify granular sources which may be utilized for the next 50 years, all sources with significant quantities and adequate quality of aggregates should be included because the status of an area may change throughout the next 50 years.

3.3 Estimated Volumes

The request for proposals indicates that approximately $1.2 \times 10^6 \text{ m}^3$ of granular material will be required throughout the Haines Junction RMA in the next 50 years. Known volumes from the Granular Source Catalogue lists reserves of more than $11.0 \times 10^6 \text{ m}^3$ of gravel in sources along the Alaska Highway and at least $2.5 \times 10^6 \text{ m}^3$ in sources along the Haines Road. Thus, adequate quantities are available throughout the Haines Junction Resource Management Area. A conservative estimate of gravel reserves within hauling distance of Haines Junction has been calculated at approximately $1.3 \times 10^6 \text{ m}^3$.

3.4 Source Verification

No field work was requested as part of this study. However, each source along the Alaska Highway was visited during a recent trip to Destruction Bay. This was of definite benefit when selecting areas pertinent to this study. A similar road trip is recommended for the Haines Road, especially in light of the new kilometre postings as of 1991 (accumulated discrepancies have resulted in a 10 km difference in the KP posting at Quill Creek). All other previously submitted databases included field trips, and is considered essential for the ultimate use of the database.

3.5 Database Management

Our proposal outlined a future option for software and hardware purchases which would allow the Lands Branch to manage and update the Report and Source Catalogues compiled for this study. In the interim, EBA would like to offer its services to periodically update the granular resources within the Haines Junction RMA as new information becomes available. This would serve as a useful tool in establishing remaining volumes in the future.

3.6 Up-Coming Granular Source Investigations

During the course of this study, it was discovered that permits have been applied for by Public Works Canada to conduct geotechnical investigations in the Marshall Creek, Bear Creek, Congdon Creek and Quill Creek areas. Results of these studies should be included in this database as the information becomes available.

4.0 CLOSURE

Based on analysis and interpretation of existing geotechnical and airphoto analysis data, it is felt that the information presented is an accurate assessment of the granular reserves throughout the Haines Junction Resource Management Area.

Reiterating a suggestion made within this report, EBA would appreciate the opportunity to update the existing information presented herein as it becomes available. Terms and conditions regarding the use of this report are enclosed immediately following the text.

Respectfully submitted,
EBA Engineering Consultants Ltd.



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GRANULAR RESOURCES DATABASE

DATA DICTIONARY—REPORT CATALOGUE

PART A: STUDY REFERENCE AND LOCATION

AA - STUDY NUMBER:

A unique study identifier number which serves as a link to other databases (e.g. Source Catalogue, ESEBase Borehole database). This number consists of an eight-character field, with the first four characters an alphabetic prefix representing the geographical location of the database, followed by a dash and a three digit study number. The three digit number is derived from the chronological listing of all reports containing granular resource data from the study area.

(e.g. NAHC-001: North Alaska Highway Corridor- earliest report)

AB - YEAR:

The calendar year in which the majority of the field work on the study was completed. (e.g. 1983)

AC - SPONSOR:

The name of the company, department, agency or organization sponsoring the study. (e.g. Indian and Northern Affairs Canada, Yukon Transportation Engineering, Public Works Canada)

AD - REPORT TITLE:

The title of the original report.

AE - CONTACT:

The name of the person within the sponsoring organization who might be contacted to obtain additional information on the study and/or authorization for its use.

AF - CONTRACTOR:

The name of the prime contractor, consultant or group contracted by the sponsor to undertake the study (e.g. EBA Engineering Consultants Ltd., Northern Engineering Services Ltd.)

AG - DATA QUALITY:

A subjective evaluation of the usefulness of the data in the report, relative to the preparation of the database.

AH - FILE NUMBER:

The contractor's file number.

AI - LOCATION MAP:

The location of the study area as identified using the Universal Transverse Mercator (UTM) co-ordinates of the southwestern and northeastern corners of a geographic block enclosing the study area. Separate data fields are included for the UTM zone and grid line of the minimum (western and southern) and maximum (eastern and northern) extremities of the block.

AJ - SITE PLAN:

A brief note discussing whether or not site plans were included in the report.

AK - LOCATION MAP NUMBER:

The map or plan number of any small scale accompanying regional map or trackplot which indicates the location of the study area, or series of separate detailed study/borrow sites or regional survey lines.

AL - SITE PLAN NUMBER:

The map or plan number(s) of up to six larger scale accompanying local maps, site plans or trackplots which indicate the location of individual detailed study/borrow sites, boreholes/ testpits/grab samples or detailed survey grids for separate study/borrow sites within the main study area.

AM - LOCATION MAP FORMAT:

The format or type of data containing the location of the study area, or series of separate detailed study/borrow sites or regional survey lines (e.g. paper copy; mylar original, folded blue-line).

AN - SITE PLAN FORMAT:

The format(s) or type(s) of up to six larger scale accompanying local maps, site plans or trackplots which indicate the location of individual detailed study/borrow sites, boreholes/ testpits/grab samples or detailed survey grids for separate study/borrow sites within the main study area (e.g. paper copy; mylar original, folded blue-line).

AO - LOCATION MAP SCALE:

The scale, expressed in terms of the representative fraction (e.g. 1:250,000) of any small scale accompanying regional map or trackplot which indicates the location of the study area, or series of separate detailed study/borrow sites or regional survey lines. The denominator only of the representative fraction is given since the numerator is consistently "1" (e.g. 250000)

AP - SITE PLAN SCALE:

The scale(s), expressed in terms of the representative fraction(s) (e.g. 1:50,000, 1:10,000) of up to six larger scale accompanying local maps, site plans or trackplots which indicate the location of individual detailed study/borrow sites, boreholes/ testpits/grab samples or detailed survey grids for separate study/borrow sites within the main study area. The denominator only of the representative fraction is given since the numerator is consistently "1" (e.g. 5000)

AQ - LOCATION MAP DIGITIZER NUMBER:

A unique five digit identifier number, to be assigned by INAC, which identifies a data set of points, lines, or polygons to be digitized from the location plan. This number links the report catalogue database to INAC's spatial database system.

AR - SITE PLAN DIGITIZER NUMBER:

A unique five digit identifier number or series of numbers, to be assigned by INAC, which identifies a data set of points, lines, or polygons to be digitized from the site plans. This number links the report catalogue database to INAC's spatial database system.

AS - LOCATION MAP ARCHIVING:

The general availability and, where appropriate, specific location of storage of any map or plan number of any small scale accompanying regional map or trackplot which indicates the location of the study area, or series of separate detailed study/borrow sites or regional survey lines (e.g. sponsor/contractor in-house, private/public repository, government agencies, ect.).

AT - SITE PLAN ARCHIVING:

The general availability and, where appropriate, specific location of storage of up to six larger scale accompanying local maps, site plans or trackplots which indicate the location of individual detailed study/borrow sites, boreholes/ testpits/grab samples or detailed survey grids for separate study/borrow sites within the main study area (e.g. sponsor/contractor in-house, private/public repository, government agencies).

AU - MINIMUM ZONE:

The UTM zone in which the southwestern corner of the enclosing block occurs. (e.g. 07)

AV - MINIMUM EASTING:

The UTM grid line of the western extremity of the enclosing block. (e.g. 381987)

AW - MINIMUM NORTHING:

The UTM grid line of the southern extremity of the enclosing block. (e.g. 7548335)

AX - MAXIMUM ZONE:

The UTM zone in which the northeastern corner of the enclosing block occurs. (e.g. 08)

AY - MAXIMUM EASTING:

The UTM grid line of the western extremity of the enclosing block. (e.g. 567428)

AZ - MAXIMUM NORTHING:

The UTM grid line of the northern extremity of the enclosing block. (e.g. 7661560)

A1 - SOURCE NUMBERS:

A cross - reference field (to the source catalogue) which lists the source numbers of the sources included in the report. (See Source Catalogue Data Dictionary for definition of the Source Number.)

A2 - OTHER SOURCES INVESTIGATED:

The location of other sources included in the report that were not applicable to this granular resource study.

PART B: STUDY DETAILS

BB - STUDY TYPE:

The type of data collected during the study or sub-study (e.g. hydrographic, geophysical, seabed sampling, geotechnical, dredging)

BC - STUDY SCOPE:

The areal scope of the study or sub-study (e.g. regional, site specific - single site, many sites)

BD - STUDY SIZE:

The extent or size of the study in terms of number of potential borrow sites identified, number of testpits or boreholes, or total number of line kilometers of geophysical data. (e.g. 21 sites; 55 BH's; 145 km)

BE - SURVEY LEVEL:

The general purpose or level of detail of the study (e.g. airphoto interpretation, reconnaissance, exploration, delineation, production)

BF - SURVEY PATTERN:

The pattern in which the individual borrow sites within the study area occur, or in which boreholes or survey lines within specific detailed study sites were laid out. (e.g. random, corridor, line, grid)

BG - SURVEY SPACING:

The relative (e.g. random, wide) or actual (range and/or average) spacing of the survey data or study sites. (e.g. 250 m E-W, 500 m N-S; 10 - 15 km)

BH - PROGRAM LENGTH:

The length of the field data collection or survey program, in days or showing specific dates.

BI - SEASON:

The season of the year in which the field data collection or survey program was conducted. (e.g. late summer, winter)

BJ - EQUIPMENT TYPE:

The type(s) of equipment used to collect data or obtain samples. (e.g. hand-excavated testpits; DS cat; sonic drill; CME 750 Auger drill, etc.)

BK - PENETRATION:

The average penetration of drilling or soil sampling equipment, (e.g. 5;7.5;10), directly related to the equipment type.

BL - RESOLUTION:

The suitability of the data for distinguishing variations in subsurface stratigraphy, expressed in relative (e.g. poor, variable, unknown) or actual (e.g. range and/or average in tenths of metres) terms. (e.g. 0.5)

BM - SAMPLING/RECORDING RATE:

The relative (e.g. continuous, intermittent, slow) and/ or actual rate of sampling or recording. (e.g. samples at 1 m intervals; chart speed)

BN - SAMPLE/RECORDING QUALITY:

A description of the relative overall quality or range in quality of the data, samples or records with regard to its use for determining subsurface stratigraphy and/or borrow quality. (e.g. poor-fair, good, disturbed, etc.)

BC - SAMPLE/RECORDING TYPE(S):

Additional details on the type(s) of samples (e.g. 75 mm diam. CRREL core, 1-2 kg grab samples, 100 mm sonic casing) or records obtained with the indicated types of equipment.

BP - SAMPLE/RECORDING SIZE:

The total number(s) of samples obtained during the study, where appropriate, and related to the Sample/Recording type(s) (e.g. 75 grabs, 15 CRREL core)

BQ - INTERPRETATION/TESTING LEVEL:

The extent of laboratory testing of samples (e.g. routine classification testing only, concrete aggregate suitability testing); or the level of detail of the interpretation of geophysical records (e.g. field, preliminary, detailed) or geotechnical data (e.g. pit plans for 3 sources), as appropriate.

BR - REPORT LEVEL:

The type or level of detail of any report(s) resulting from the study. (e.g. annotated records, field logs/report only, summary/data compilation report, formal geophysical interpretation/ geotechnical evaluation report)

BS - REPORT DISTRIBUTION:

The extent of distribution and/or general availability of any reports resulting from the study. (e.g. internal, sponsor/contractor only, specific government departments/agencies/libraries, published)

BT - DATA ARCHIVING:

The general availability and, where appropriate, specific location of storage of raw data obtained during the study. (e.g. sponsor/contractor in-house, private/public repository, government agencies).

GRANULAR RESOURCES DATABASE

DATA DICTIONARY — SOURCE CATALOGUE

PART A: LOCATION AND STATUS

AA - SOURCE NUMBER:

Each source has been assigned a unique seven-character alphanumeric source number, which serves as a link to other databases. The number consists of six digits representing the kilometre post (to tenths) along the Alaska Highway where the source is located, and an alphabetic suffix (L-Left; R-Right; B-Both) to denote source location relative to the highway centreline while facing the direction of increasing kilometre posts. (e.g. 1798.0B).

AB - STUDY NUMBER:

A cross reference field showing the Report Number(s) (in the Report Catalogue) in which the source is described, and from which data was obtained to prepare the Source Catalogue Data Sheet.

AC - NTS MAP REFERENCE:

The National Topographic Series (NTS) 1:50,000 scale map reference number of the map containing the majority of the outlined deposit. (e.g. 115 k/7)

AD - MAP DIGITIZER NUMBER:

A unique five digit identifier number, to be assigned by INAC, which identifies a data set of points, lines, or polygons to be digitized from the location plan. This number links the granular deposit database to INAC's spatial database system.

AE - LOCATION MAP/PLAN SCALE:

The scale, expressed in terms of the representative fraction (e.g. 1:250,000) of any small scale accompanying regional map which indicates the location of separate study/borrow sites. The denominator only of the representative fraction is given since by definition the numerator is unity. (e.g. 250000)

The next seven fields (AF-AL) provide location details for the Source, including Universal Transverse Mercator (UTM) co-ordinates, and highway kilometre posts. In each case, the co-ordinates are normally determined for the approximate centre of the source.

AF - UTM ZONE/EASTING:

The UTM zone in which the deposit occurs, and the north-south oriented UTM grid line passing through the centre of the deposit. (e.g. 7-381987)

AG - LOCATION

The descriptive location of the source relative to a geographic feature. (e.g. 6 km N of White River).

AH - NORTHING:

The east-west oriented UTM grid line passing through the centre of the deposit. (e.g. 7548335)

AI - LOCAL NAME(S):

Many sources are known locally by one or more names, rather than the designated source number. Although these names may vary over time or be duplicated between sources, they should be recorded as is. (e.g. Burwash Creek)

AJ - CORRIDOR NUMBER AND NAME:

The name of the transportation route within whose corridor the deposit occurs. (e.g. Robert Campbell Highway; Alaska Highway)

AK - KILOMETRE-POST:

The kilometre-post (KP) of the point along the transportation corridor at which access is relatively direct to the deposit, or the most nearly adjacent point on the corridor to the location of the deposit.

AL - OFFSET: DISTANCE AND DIRECTION:

The distance in metres from the corridor centreline to the centre of the deposit. The direction (left or right) is determined when facing in the direction of increasing kilometre-posts. (e.g. 350 left)

AM - SOURCE ACCESS:

A short description of the most practical route to the source.

AN - DISTANCE ACCESS:

The distance in metres along the above described access route from the corridor to the deposit. Ideally, this should be the same as the offset distance; however, where this is not possible due to steep slopes or rivers, the access distance can vary significantly from offset.

AO - CONDITION:

A description of the type and condition of the access route, (e.g. seismic line; undeveloped; winter road; ice road, developed)

AP - AREA:

The total estimated areal extent, in hectares, of potentially usable granular resources which comprise the deposit. (e.g. 1; 10; 100)

AQ - SITE PLAN SCALE:

The scale, expressed in terms of the representative fraction (e.g. 1:10,000) of any larger scale accompanying site plan which indicates the location of boreholes/ testpits/grab samples or geophysical survey grids. The denominator only of the representative fraction is given since the numerator is consistently "1" (e.g. 10000)

AR - PLAN DIGITIZER NUMBER(S):

A unique five digit identifier number or series of numbers, to be assigned by INAC, which identifies a data set of points, lines, or polygons to be digitized from the site plan. This number links the granular deposit database to INAC's spatial database system.

AS - LAND TENURE:

The legal status of the land upon which the deposit is located. (e.g. Private; Territorial)

AT - STATUS:

The current status of the deposit in terms of development of granular resources. (e.g. active; inactive; abandoned; depleted; undeveloped; stripped; unproven)

AU - PAST USE:

A summary of any known previous source development or exploitation activity in terms of type and amount of material removed and use of material. (e.g. borrow)

AV - STOCKPILE TYPE

A qualitative description of the processed materials on site. (e.g. 38 mm screened gravel)

AW - PERFORMANCE RATING:

A summary of any known assessment of the performance of previously used material from the source. (e.g. poor, fair, good)

AX - QUANTITY

An estimate of quantity stockpiled a site, at the time of the last record update.

PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION

BB - INVESTIGATION LEVEL:

The greatest level of detail of previous site investigation work at the subject deposit (e.g. airphoto interpretation; reconnaissance; exploratory drilling; delineation drilling; production drilling).

BC - LAST INVEST DATE:

The year in which the most recent site investigation work was completed.

BD - GEOPHYSICAL DATA:

The type and length of any geophysical surveys completed at the deposit.
TYPE: LINE M:(e.g. EM-31 : 1550 m)

BE - TEST HOLE DENSITY

The number of boreholes plus the number of test pits divided by the estimated source area. (Field AP).

SUBSURFACE DATA:

The number, range and average depth of subsurface penetration of the various site investigation methods used to define the source materials.

BF - BOREHOLES: NUMBER:

The total number of boreholes (augerings, borings, boreholes, etc.) completed and logged within, or immediately adjacent to the deposit, which provide subsurface information defining the type, extent and quality of granular materials.

BG - TESTPITS: NUMBER:

The total number of hand- or equipment-excavated testpits or trenches completed and logged within, or immediately adjacent to the deposit, which provide subsurface information defining the type, extent and quality of granular materials.

BH - EXPOSURES: NUMBER:

The total number of natural or man-made exposures or outcrops (e.g. on steep slopes, stream banks; or exposed pit faces, cutbanks), within, or immediately adjacent to the deposit, which have been logged to provide subsurface information defining the type, extent and quality of granular materials.

BI - BOREHOLES: DEPTH:

A listing of the minimum, average and maximum depth of penetration of the total collection of boreholes for the deposit, in tenths of metres. (e.g. 3.1-5.6-10.3)

BJ - TESTPITS: DEPTH:

A listing of the minimum, average and maximum depth of penetration of the total collection of testpits for the deposit, in tenths of metres. (e.g. 0.5-2.6-5.3)

BK - EXPOSURES: DEPTH:

A listing of the minimum, average and maximum depth of subsurface materials exposed in the total collection of exposures for the deposit, in tenths of metres. (e.g. 01.5-06.1-15.0)

BL - DATA QUALITY

A subjective description of the usefulness of the data with respect to the preparation of the source catalogue.

SOURCE DESCRIPTION:

A brief summary of the physical setting of the deposit which will aid in the analysis and understanding of the type, extent, quality and uniformity of the available granular materials and the suitability of the deposit for development and exploitation.

BM - TOPOGRAPHY:

A general description of the collective physical features, relief and contour of the area. (e.g. flat, gently rolling, rolling, hummocky, undulating, ridged, dissected, plateau, mountainous)

BN - SLOPE:

A general description of the slopes on and immediately adjacent to the deposit in terms of type (e.g. simple; compound; complex), degree (e.g. flat; gentle; moderate; steep; precipitous) and direction (e.g. GENTLE/NW).

BO - AREA DRAINAGE:

A general description of the general direction and apparent condition (e.g. well; moderate; poor; saturated; flooded) of surface and subsurface drainage at the site. (e.g. SSE- moderate, flooded to S)

BP - SOURCE VEGETATION:

A general description of the most significant features of the vegetation cover on and immediately adjacent to the deposit which may provide an indication of the type of materials within the deposit, the presence or absence of permafrost or wet conditions, or potential site development or restoration difficulties. Vegetation should be described, as appropriate, in terms of age, size or complexity (e.g. mixed; sapling; mature), density (e.g. nil; sparse; moderate; dense) and type (e.g. poplar; black/white spruce; jackpine; willow) for each of tree cover, understory and ground cover. (e.g. mature mixed poplar and white spruce to 15 m, few tamarack /sparse poplar saplings / dense bearberry, sparse sphagnum and sedges)

BQ - PERMAFROST FEATURES:

A general description of surface and/or subsurface features which demonstrate or indicate the presence of permafrost conditions within or adjacent to the deposit. (e.g. Vx, Vr)

BR - ACTIVE LAYER THICKNESS:

A listing of the minimum, average and maximum measured thickness of the seasonally thawed and frozen active layer within and adjacent to the deposit, determined from the boreholes, testpits, probings and exposures which encountered apparently perennially frozen materials, in tenths of metres. (e.g. 0.2-1.0-1.3)

BS - SITE DESCRIPTION DATE:

The date on which the site description was completed, or where more than one site visit was involved, the date upon which the maximum active layer thickness was measured, in the format: mm/dd/yy (e.g. 09/04/80).

BT - GENERIC ORIGIN:

The environment of deposition or geologic process believed to be responsible for the formation of the subject surficial feature or deposit comprised of granular materials. (e.g. alluvial; fluvial; glacial; glaciofluvial; glaciomarine; lacustrine)

BU - LANDFORM:

The type of surficial feature comprising the subject granular materials, within which geologic conditions are interpreted to be relatively uniform or are variable within limits characteristic of the type of feature. (e.g. delta; esker; fan; kame; outwash plain; terrace)

SOURCE STRATIGRAPHY:

A general description of the type, range and average thickness of the main surficial materials units comprising the granular source, based on subsurface information from only those boreholes, testpits and exposures which encountered granular materials.

BV - GRANULAR TYPE:

A brief description of the type of granular materials encountered within the area delineated as a granular source. (e.g. GRAVEL AND SAND, well-graded; SAND - gravelly, some silt)

BW - OVERBURDEN TYPE:

A brief description of the type of overburden materials present over the area containing granular materials. (e.g. PEAT - over silt)

BX - GRANULAR THICKNESS:

A listing of the minimum, average and maximum thickness of granular materials over the deposit, determined from the boreholes, testpits and exposures in the area delineated as a granular source, in tenths of metres. (e.g. 1.0-5.2-12.8)

BY - OVERBURDEN THICKNESS:

A listing of the minimum, average and maximum thickness of overburden materials over the deposit, determined from the boreholes, testpits and exposures which encountered granular materials, in tenths of metres. (e.g. 0.0-1.2-2.8)

BZ - UNDERBURDEN:

A brief description of the type of materials underlying the granular materials in the source area. (e.g. CLAY (Till) - wet)

B1 - DEVELOPMENT CONSTRAINTS:

A general indication of any potential constraints to short or long term development of the source, expressed in terms of the type of constraint, (e.g. access; materials; drainage; permafrost; environmental; socioeconomic) with details, as appropriate, on the nature and impact of the constraint.

B2 - DEVELOPMENT POTENTIAL:

A summary comment, expressed in qualitative terms, of the general suitability of the deposit for development. The potential is based essentially on the anticipated overall extent and quality of the available granular materials, but also considers the level of detail of existing site investigation, the presence, extent and type of overburden, drainage and permafrost conditions, other surface or sub-surface characteristics and general accessibility. (e.g. unknown; unsuitable; poor; fair; good; excellent)

PART C: TEST RESULTS AND MATERIAL QUANTITY

TEST RESULTS:

A summary of the cumulative results of laboratory testing, completed in accordance with ASTM or CSA standard test procedures, of samples from the deposit in terms of test name, number of samples tested, and ranges and averages of test results.

CC - UNIFIED SOIL CLASSIFICATION - NUMBER:

The number of samples classified under the Unified Soil Classification (USC) system, in accordance with ASTM standard D 2487. (e.g. 121)

CD - MOISTURE CONTENT(%) - NUMBER:

The number of samples for which soil Moisture Content (MC%) has been determined, in accordance with ASTM standard D2216. (e.g. 102)

CE - UNIFIED SOIL CLASSIFICATION - CLASS:

The average USC class of material types sampled from the deposit. (e.g. SM/SP)

CF - MOISTURE(%): RESULTS:

The minimum, average and maximum soil Moisture Content, based on percentage of dry soil weight, for the collection of samples tested. (e.g. 03-12-021)

CG - SIZE ANALYSIS: NUMBER:

The number of samples for which particle-size analysis testing has been completed, in accordance with ASTM standards D 421 and D 422. (e.g. 111)

CH - GRAVEL(%):

The minimum, average and maximum percentage of gravel-sized material (4.76 mm - 75 mm dia.) is determined by particle-size analysis testing. (e.g. 05-45-85)

CI - SAND(%):

The minimum, average and maximum percentage of sand-sized material (0.074 mm - 4.76 mm dia.) is determined by particle-size analysis testing. (e.g. 25-37-52)

CJ - FINES(%):

The minimum, average and maximum percentage of silt- and clay-sized material (under 0.074 mm dia.) is determined by particle-size analysis testing. (e.g. 02-07-12)

CK - OVERSIZE(%):

The minimum, average and maximum percentage of oversized material; (over 75 mm dia.), in pit run material from the source, as determined by field estimates, field sieving, or laboratory testing. (e.g. 00-10-35)

CL - D-50 (um)

The minimum, average and maximum Median Diameter (D-50), in micrometres (um) of samples subjected to particle-size analysis testing. (e.g. 00210-01200-03600)

CM - PETROGRAPHIC ANALYSIS - NO. OF TESTS:

The number of samples for which Petrographic Analysis testing has been completed to determine the Petrographic Number (PN) of samples from the deposit, in accordance with CSA standard A23.2, Appendix B. (e.g. 01, 10)

CN - PETROGRAPHIC NUMBER - RESULTS:

The range and average Petrographic Number (PN) for the deposit, based on petrographic analysis, for the above collection of samples, presented in the format: minimum-average-maximum. (e.g. 102-114-123)

CO - OTHER TESTS:

A listing of up to eight other types of tests conducted on samples from the deposit, the number of samples tested, and the average values of the test results, presented in the format: test (11 digits)-number (2 digits)-average results (4 digits). Typical entries are described in more detail below.

- ABSORPTION(%):

The number and average of all results, expressed in terms of weight percentage, of all Absorption testing on samples from the deposit, in accordance with CSA standard A23.2-12A. (e.g. Absorption(%)-12-01.1)

CLEANNESS(C/F):

The number and average of all results of Cleanness of Aggregate testing on samples of coarse or fine aggregate from the deposit, in accordance with California Test Method 224. (e.g. Cleanness(C)-04-50.5)

DURAB_INDEX:

The number and average of all results of durability index testing on samples from the deposit. (e.g. Durab_Index-03-65.3)

LA_ABRASION:

The number and average of all results, expressed in percentage weight loss, of Los Angeles (LA) Abrasion Testing on samples from the deposit, in accordance with CSA A23.2-16A. (e.g. LA Abrasion-03-26.3)

ORGAN_PLATE:

The number and average of all results, expressed in terms of reference plate number, of Organic Plate testing on samples from the deposit. (e.g. Organ Plate-05-03.2)

ORG_CONTENT:

The number and average of all results, expressed in terms of percentage weight loss, of Organic Content testing, in accordance with the Alaskan test method. (e.g. Org Content-12-00.5)

SULPH_SD_MG/NA:

The number and average of all results, expressed in percentage weight loss, of all Sulphate Soundness (Magnesium or Sodium, Mg/Na) testing on samples from the deposit, in accordance with CSA standard A23.2-9A. (e.g. Sulph Sd Na-02-03.2)

REACT_PR/MB_3M/6M/12/18:

The number and average of all results, expressed in terms of percentage expansion, of alkali-aggregate reactivity testing on concrete prisms, or mortar bars, after three, six, twelve or eighteen months, in accordance with CSA A23.2-14A-M77 or ASTM C-227, respectively. (e.g. React_Mb_3M-02-.085)

REL_DENSITY:

The number and average of all results, expressed in terms of saturated surface dry conditions, of all Relative Density testing on samples from the deposit, in accordance with CSA standard A23.2-12A. (e.g. Rel Density-12-2.62)

MATERIAL QUANTITY (All in cubic metres):

Calculated and/or estimated volumes of granular material contained in the deposit, expressed in terms of DIAND-designated material classes, and in terms of confidence level of the quantities determined in accordance with the following definitions:

CLASS:

DIAND has developed a simple classification system for granular resources, presented in the draft Territorial and Public Lands Pits and Quarries Regulations, which considers both the Unified Soil Classification of materials, and their most suitable end use. The quantity estimates should be given, where possible, in terms of each of the five material classes, as defined in each class field (see CP to CT, below), and in terms of the total (see CU) for the deposit.

PROVEN VOLUME:

Material in each class whose occurrence, distribution, thickness and quality is supported with a high degree of confidence by ground truth such as geotechnical drilling, test pitting, and/or exposed stratigraphic sections. The thickness of material encountered in a borehole is usually extrapolated to a radius not exceeding 50 metres around the hole, with adjustments applied by assessing landform type and anticipated or known deposit homogeneity.

PROBABLE VOLUME:

Material in each class whose existence and extent is inferred on the basis of several types of direct and indirect evidence, including topography, landform characteristics, airphoto interpretation, extrapolation of stratigraphy, geophysical data and/or limited sampling. Additional investigation is needed to determine a reliable material volume. The volume is estimated by projecting known parameters (typically those of proven resources) over the entire deposit, with adjustments for landform type, anticipated homogeneity and other site characteristics such as ice content and drainage.

PROSPECTIVE VOLUME:

Material in each class whose existence is merely speculated on the basis of limited indirect evidence, such as airphoto interpretation and/or general geological considerations. The volume is typically estimated for the maximum areal extent of the deposit and the estimated relief of the geomorphic feature, with adjustments for anticipated site and deposit characteristics.

All material quantities in the various classes of the North Alaska Highway database are presented as PROBABLE VOLUME.

CP - CLASS 1:

The calculated and/or estimated volumes of excellent quality granular material, consisting of clean, well-graded, structurally sound sands and gravels suitable for use as high quality surfacing materials, or as high quality asphalt or concrete aggregate, with a minimum of processing.

CQ - CLASS 2:

The calculated and/or estimated volumes of good quality granular material, consisting of well-graded sands and gravels with varying, limited quantities of silt (fines), and suitable for use as good quality base and surface course aggregates, embankment or structure-supporting fill. May be suitable for production of concrete aggregate with extensive processing, except where deleterious material is present.

CR - CLASS 3:

The calculated and/or estimated volumes of fair quality granular material, consisting of generally poorly-graded sands and gravels with or without substantial quantities of silt (fines), and suitable for fair quality general fill (subbase, base, embankment fill) for roads, flexible foundation pads, or lay-down yards.

CS - CLASS 4:

The calculated and/or estimated volumes of poor quality granular material, consisting of generally poorly-graded, silty fine sands with minor gravels, with or without weak particles and deleterious materials, and suitable for marginal general (non-structural) fill.

CT - CLASS 5:

The calculated and/or estimated volumes of fair to excellent quality bedrock, felsenmeer, talus or similar extremely coarse granular material, suitable for quarrying and processing to produce potentially excellent construction materials ranging from general fill, to concrete aggregate, building stone, and erosion control materials such as rip rap or armour stone.

CU - TOTAL VOLUME:

The calculated and/or estimated volume of all of the above classes of granular materials potentially available in the deposit.

CV - TOTAL RECOVERABLE:

The calculated or estimated volume of useable granular material from the deposit, based on the maximum areal extent of useable material in the deposit, and the anticipated maximum recoverable thickness, as determined from test pit and borehole information or inferred from assessment of deposit and site characteristics.

CW - ANNUAL RECOVERABLE:

The calculated or estimated volume of material which is likely to be recovered in a single extraction season, based on the maximum areal extent of useable material in the deposit, and the anticipated maximum thickness of annual thawing of surficial materials, as determined from test pit and borehole information or inferred from assessment of deposit and site characteristics.

CX - RECORD UPDATED BY:

The name of the contractor or person who originally compiled the database and a listing of contractors or persons who have subsequently undertaken significant updating of the database contents.

CY - LAST UPDATE:

The date of the last update of the information presented for the subject granular materials deposit, presented in the format: mm/dd/yy
(e.g. 04/25/89)

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-15800R STUDY NO. : INAC77HJCT01; YTG91HJUN02
 NTS MAP REFERENCE : 115A/15 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-409000 LOCATION : East of Haines Junction
 UTM NORTHING : 6745750
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1580.0 OFFSET(m) : Right

SOURCE ACCESS : None
 ACCESS DISTANCE (m) : N/A CONDITION : N/A
 AREA (ha) : Unknown SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Reserve
 PAST USE - SOURCE : Undeveloped STOCKPILE - TYPE : N/A
 PERFORMANCE RATING : Unknown - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : None LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 0
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A
 DATA QUALITY : Poor

SOURCE TOPOGRAPHY : Gently Rolling SLOPE :
 AREA DRAINAGE : Fair
 SOURCE VEGETATION : Spruce and Poplar
 PERMAFROST FEATURES : None
 ACTIVE LAYER (m) : N/A
 GENERIC ORIGIN : Glaciofluvial
 GRANULAR - TYPE : Unknown
 - THICKNESS (m) : Unknown

DESCRIPT. DATE : 1991
 LANDFORMS : Outwash
 OVERBURDEN - TYPE : Unknown
 - THICKNESS (m): N/A
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Unknown

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%): N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/24/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-15850R STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115A/15 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-403500 LOCATION : East of Haines Junction
 UTM NORTHING : 6743500
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1585.4 OFFSET(m) : Right

SOURCE ACCESS : Haul Road
 ACCESS DISTANCE (m) : 700 CONDITION : Good
 AREA (ha) : 2.5 SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Reserve
 PAST USE - SOURCE : Surfacing STOCKPILE - TYPE : Crush
 PERFORMANCE RATING : Poor - Too Silty - QUANTITY : +/- 1000 m

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical/Production LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0.4
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 1 EXPOSURES - NO. : 5
 - DEPTH (m): N/A - DEPTH (m): Unknown - DEPTH (m) : 2:4:6

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Moderate
 AREA DRAINAGE : Good to Poor

SOURCE VEGETATION : Poplar
 PERMAFROST FEATURES : None
 ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Colluvial LANDFORMS : Talus Slopes
 GRANULAR - TYPE : Silty Gravel OVERBURDEN - TYPE : Silt, Boulders
 - THICKNESS (m) : Variable - THICKNESS (m): Variable
 UNDERBURDEN : Silt

DEVELOP. CONSTRAINT : Very Silty
 DEVELOP. POTENTIAL : Poor

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 4 MOISTURE CONTENT - NUMBER : 0
 - CLASS : 5 M - RESULTS: N/A
 SIZE ANALYSIS - NO. : 16 GRAVEL (%) : 34-35-37 SAND (%) : 26-35-45 FINES (%) : 21-29-39
 - OVERSIZE (%) : D-50 (um) : 2000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : 0
 CLASS 2 : 0
 TOTAL RECOVERABLE : 250 000 CLASS 3 : 250 000
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 250 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/24/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-1602AR STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115A/14 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-390000 LOCATION : Aishihik Road
 UTM NORTHING : 6754000
 LOCAL NAMES(S) : km 6.0 Pit
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1602.0 OFFSET(m) : 6,400

SOURCE ACCESS : Aishihik Road
 ACCESS DISTANCE (m) : 6000 CONDITION : Good
 AREA (ha) : Unknown SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow/Surfacing STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Unknown - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1972
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 0
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Gently Rolling SLOPE : Minimal
 AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Moderate Spruce, Poplar
 PERMAFROST FEATURES : None
 ACTIVE LAYER (m) : Unknown
 GENERIC ORIGIN : Glaciofluvial
 GRANULAR - TYPE : Gravel and Sand
 - THICKNESS (m) : Unknown

DESCRIPT. DATE : 1972
 LANDFORMS : Terrace
 OVERBURDEN - TYPE : Unknown
 - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT :
 DEVELOP. POTENTIAL :

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/24/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-1602BR STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115H/3 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-390000 LOCATION : Aishihik Road
 UTM NORTHING : 6768000
 LOCAL NAMES(S) : NCPC Pit
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1602.0 OFFSET(m) : 17600

SOURCE ACCESS : Aishihik Road
 ACCESS DISTANCE (m) : 17600 CONDITION : Good
 AREA (ha) : Unknown SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Reserve
 PAST USE - SOURCE : Borrow - NCPC Aishihik STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance/Geotech. LAST INVEST. DATE : 1972
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 1
 - DEPTH (m) : N/A - DEPTH (m) : N/A - DEPTH (m) : Unknown

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Flat SLOPE : Very Gentle

AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Light Poplar
 PERMAFROST FEATURES : None

ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Glaciofluvial LANDFORMS : Terrace
 GRANULAR - TYPE : Gravel OVERBURDEN - TYPE : Unknown
 - THICKNESS (m) : Unknown - THICKNESS (m) : Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Unknown

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/24/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16140L STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115A/14 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-378000 LOCATION : East of Haines Junction
 UTM NORTHING : 6746600
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1614.0 OFFSET(m) : Left

SOURCE ACCESS : None
 ACCESS DISTANCE (m) : N/A CONDITION : N/A
 AREA (ha) : Unknown SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Reserve
 PAST USE - SOURCE : Undeveloped STOCKPILE - TYPE : None
 PERFORMANCE RATING : N/A - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 0
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Gently Rolling SLOPE : Gentle
 AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Poplar, Some Spruce
 PERMAFROST FEATURES : None

ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Glaciofluvial LANDFORMS : Terrace
 GRANULAR - TYPE : Sand and Gravel OVERBURDEN - TYPE : Silt
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Fair

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): N/A

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/24/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16160L STUDY NO. :
 NTS MAP REFERENCE : 115A/14 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-375000 LOCATION : East of Haines Junction
 UTM NORTHING : 6745000
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1616.0 OFFSET(m) : Left

SOURCE ACCESS : Access Road at km 1613.9
 ACCESS DISTANCE (m) : 5000 CONDITION : Good
 AREA (ha) : 10 SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Undeveloped STOCKPILE - TYPE : None
 PERFORMANCE RATING : Unknown - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 0
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A
 DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Gently Rolling SLOPE : Gentle to Moderate
 AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Light Poplar, Spruce
 PERMAFROST FEATURES : None
 ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Alluvial LANDFORMS : Terraces
 GRANULAR - TYPE : Sand and Gravel OVERBURDEN - TYPE : Silt, Silty Sand
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown
 DEVELOP. CONSTRAINT : May be Close to Forestry Reserve; Placer Claims
 DEVELOP. POTENTIAL : Fair

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%): N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/24/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16180B STUDY NO. : FHIL81HJCT01; FHIL81HJCT02; YTG91HJCT01
 NTS MAP REFERENCE : 115A/14 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-374000 LOCATION : East of Haines Junction
 UTM NORTHING : 6746500
 LOCAL NAMES(S) : Marshall Creek Area
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1618.0 OFFSET(m) : Both

SOURCE ACCESS : Pit Entrance and Access Roads
 ACCESS DISTANCE (m) : 400 m Left CONDITION : Good
 AREA (ha) : 120 SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : Pipeline/Forest Reserve
 PAST USE - SOURCE : Borrow; Crush; BST STOCKPILE - TYPE : BST - 1988
 PERFORMANCE RATING : Good - QUANTITY : +/- 1000

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance/Geotech. LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : EM31 TEST HOLE DENSITY (#/ha) : 0.2
 BOREHOLES - NUMBER : 17 TESTPITS - NO. : 15 EXPOSURES - NO. : 3
 - DEPTH (m): 6.4:8.5:10.0 - DEPTH (m): 1.7:3.1:4.1 - DEPTH (m) : 2.0:10.0:20.0

DATA QUALITY : Excellent

SOURCE TOPOGRAPHY : Dissected SLOPE : Flat with Steep Slopes

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Dense, Mature Spruce

PERMAFROST FEATURES : None

ACTIVE LAYER (m) : N/A

DESCRIPT. DATE : 1981

GENERIC ORIGIN : Alluvial

LANDFORMS : Terrace

GRANULAR - TYPE : Gravel; Gravel and Sand

OVERBURDEN - TYPE : Organics, Silt, Sand

- THICKNESS (m) : 1.0:3.5:9.8

- THICKNESS (m): 0.1:0.2:0.3

UNDERBURDEN : Silt

DEVELOP. CONSTRAINT : Forestry Reserve, Placer Claims

DEVELOP. POTENTIAL : Fair

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 16 MOISTURE CONTENT - NUMBER : 40
 - CLASS : SM:GM:GW:GM/GW - RESULTS: 4:5:8
 SIZE ANALYSIS - NO. : 13 GRAVEL (%) : 0-62-75 SAND (%) : 20-33-88 FINES (%) : 2-7-22
 - OVERSIZE (%) : D-50 (um) : 8000;11000;16000

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): Crush Counts - 23, Average 60%

MATERIAL QUANTITY (All in cubic metres)

CLASS 1 : Unknown

CLASS 2 : 500 000

TOTAL RECOVERABLE : 750 000

CLASS 3 : 250 000

ANNUAL RECOVERABLE : N/A

CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : 750 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.

LAST UPDATE : 07/24/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16300R STUDY NO. : YTG91HJCT01
 NTS MAP REFERENCE : 115A/13 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-360500 LOCATION : At Haines Junction
 UTM NORTHING : 6742750
 LOCAL NAMES(S) : Pine Lake Pit
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1630.0 OFFSET(m) : 4000

SOURCE ACCESS : Haul Road
 ACCESS DISTANCE (m) : 4000 CONDITION : Good
 AREA (ha) : 35 SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Reserve
 PAST USE - SOURCE : Borrow, Basecourse, BST STOCKPILE - TYPE : Airport Crush/BST
 PERFORMANCE RATING : Good - QUANTITY : 15000Crh;6000BS

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical/Production LAST INVEST. DATE : 1989
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0.3
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 10 EXPOSURES - NO. : 1
 - DEPTH (m): N/A - DEPTH (m): 2.4:3.8:4.2 - DEPTH (m) : Unknown

DATA QUALITY : Excellent

SOURCE TOPOGRAPHY : Unknown SLOPE : Unknown

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Small Pine

PERMAFROST FEATURES : None

ACTIVE LAYER (m) : N/A

DESCRIPT. DATE : 1989

GENERIC ORIGIN : Alluvial

LANDFORMS : Beach Deposit

GRANULAR - TYPE : Gravel; Gravel and Sand

OVERBURDEN - TYPE : Sand/Silty Sand

- THICKNESS (m) : 0.4-3.7-3.0

- THICKNESS (m): 0.2-0.6-2.0

UNDERBURDEN : Rock/Silt

DEVELOP. CONSTRAINT : None

DEVELOP. POTENTIAL : Excellent

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 23 MOISTURE CONTENT - NUMBER : 24
 - CLASS : GM/GP-GW-SM-SW-GP - RESULTS: 1-3-20
 SIZE ANALYSIS - NO. : 23 GRAVEL (%) : 5-56-75 SAND (%) : 21-42-93 FINES (%) : 1-3-7
 - OVERSIZE (%) : Unknown D-50 (um) :

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY):

MATERIAL QUANTITY (All in cubic metres)

CLASS 1 : Unknown

CLASS 2 : 150 000

TOTAL RECOVERABLE : 300 000

CLASS 3 : 150 000

ANNUAL RECOVERABLE : N/A

CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : 300 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.

LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16470R STUDY NO. : YTG91HJCT01
 NTS MAP REFERENCE : 115A/13 DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-354500 LOCATION : North of Haines Junction
 UTM NORTHING : 6744000
 LOCAL NAMES(S) : McIntosh Lodge Pit
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1647.0 OFFSET(m) : Right

SOURCE ACCESS : Haul Road
 ACCESS DISTANCE (m) : 300 CONDITION : Good
 AREA (ha) : 10 SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow/BST/Basecourse STOCKPILE - TYPE : BST
 PERFORMANCE RATING : Good - QUANTITY : +/- 1000

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Production LAST INVEST. DATE : 1986
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 3
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : 3.0-3.5-4.0
 DATA QUALITY : Poor

SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle to Moderate
 AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Spruce/Poplar
 PERMAFROST FEATURES : None

ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : GlacioFluvial LANDFORMS : Outwash
 GRANULAR - TYPE : GM/GP-SM/SP OVERBURDEN - TYPE : Silt - Silty Sand
 - THICKNESS (m) : 2.0-3.0-4.0 - THICKNESS (m): 0.3-1.0-2.0
 UNDERBURDEN : Silt

DEVELOP. CONSTRAINT : Firewood Permits, Private Ownership
 DEVELOP. POTENTIAL : Fair

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 6 MOISTURE CONTENT - NUMBER : 0
 - CLASS : SM/SP - RESULTS: N/A
 SIZE ANALYSIS - NO. : 6 GRAVEL (%) : 28:32:45 SAND (%) : 49:58:63 FINES (%) : 5:10:15
 - OVERSIZE (%) : 0 D-50 (um) : Avg. - 2500

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 50 000
 TOTAL RECOVERABLE : 80 000 CLASS 3 : 30 000
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 80 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16620B STUDY NO. : FHIL81HJCT01; INAC77HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-347500 LOCATION : North of Haines Junction
 UTM NORTHING : 6754000
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1662.0 OFFSET(m) : Both

SOURCE ACCESS : Existing Roads
 ACCESS DISTANCE (m) : 500 CONDITION : Fair
 AREA (ha) : 200 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow/Surfacing STOCKPILE - TYPE : None
 PERFORMANCE RATING : Poor - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1980
 GEOPHYSICAL DATA : EM31 TEST HOLE DENSITY (#/ha) : 0.11
 BOREHOLES - NUMBER : 7 TESTPITS - NO. : 21 EXPOSURES - NO. : 0
 - DEPTH (m): 10.0 - 10.1 - DEPTH (m): 3.3-3.6-4.0 - DEPTH (m) : N/A

DATA QUALITY : Good
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle to Moderate
 AREA DRAINAGE : Well Drained/Some Ponding
 SOURCE VEGETATION : Spruce
 PERMAFROST FEATURES : Nbn
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1981
 GENERIC ORIGIN : Glacial LANDFORMS : Moraine
 GRANULAR - TYPE : Silty Gravel OVERBURDEN - TYPE : Peat
 - THICKNESS (m) : 2.0-3.7-6.2 - THICKNESS (m): 0.1-0.3-1.0
 UNDERBURDEN : Silt

DEVELOP. CONSTRAINT : High Silt Content, Permafrost
 DEVELOP. POTENTIAL : Poor

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 27 MOISTURE CONTENT - NUMBER : 23
 - CLASS : GM-GM/GW-GW - RESULTS: 3-5-12
 SIZE ANALYSIS - NO. : 27 GRAVEL (%) : 43-47-70 SAND (%) : 21-27-40 FINES (%) : 4-19-31
 - OVERSIZE (%) : 20 D-50 (um) : 2000-5000-12500

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 TOTAL RECOVERABLE : 1 680 000 CLASS 2 : Unknown
 ANNUAL RECOVERABLE : Unknown CLASS 3 : 1 680 000
 CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 1 680 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16850R STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-650000 LOCATION : North of Haines Junction
 UTM NORTHING : 6767000
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1685.0 OFFSET(m) : Right

SOURCE ACCESS : Adjacent to Highway
 ACCESS DISTANCE (m) : N/A CONDITION : N/A
 AREA (ha) : 10 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : None
 PERFORMANCE RATING : Unknown - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 1
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : 3.0
 DATA QUALITY : Poor

SOURCE TOPOGRAPHY : Gently Rolling SLOPE : Flat

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Poplar, Spruce

PERMAFROST FEATURES : None

ACTIVE LAYER (m) : N/A

GENERIC ORIGIN : Glacial

GRANULAR - TYPE : GM; SM

- THICKNESS (m) : Unknown

DESCRIPT. DATE : 1991

LANDFORMS : Moraine

OVERBURDEN - TYPE : Silt

- THICKNESS (m): Unknown

UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Silty Material

DEVELOP. POTENTIAL : Poor

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 2 MOISTURE CONTENT - NUMBER : 0
 - CLASS : GM - SM - RESULTS: N/A
 SIZE ANALYSIS - NO. : 2 GRAVEL (%) : 19-23-46 SAND (%) : 29-32-34 FINES (%) : 25-36-47
 - OVERSIZE (%) : 0 D-50 (um) : 2000-5000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres)

CLASS 1 : Unknown

CLASS 2 : Unknown

TOTAL RECOVERABLE : Unknown

CLASS 3 : Unknown

ANNUAL RECOVERABLE : N/A

CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.

LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16680R STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-649000 LOCATION : North of Haines Junction
 UTM NORTHING : 6767000
 LOCAL NAMES(S) : Christmas Creek
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1688.0 OFFSET(m) : Right

SOURCE ACCESS : Pit Entrance
 ACCESS DISTANCE (m) : 50 CONDITION : Fair
 AREA (ha) : 1 SITE SCALE: N/A DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : None
 PERFORMANCE RATING : Fair - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 2
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : 3 - 4
 DATA QUALITY : Poor

SOURCE TOPOGRAPHY : Hummocky SLOPE : Moderate

AREA DRAINAGE : Fair to Well Drained
 SOURCE VEGETATION : Spruce/Poplars Around Pit

PERMAFROST FEATURES : None
 ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Glaciofluvial LANDFORMS : Terrace
 GRANULAR - TYPE : GM/GP, GW OVERBURDEN - TYPE : Silt
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Silt

DEVELOP. CONSTRAINT : Pit Entrance at Bad Location
 DEVELOP. POTENTIAL : Poor

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-16930B STUDY NO. : INAC77HJCT01; YTG91HJCT01
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-642000 LOCATION : Silver City Area
 UTM NORTHING : 6768750
 LOCAL NAMES(S) : Silver City
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1693.0 OFFSET(m) : Both

SOURCE ACCESS : Along Highway
 ACCESS DISTANCE (m) : N/A CONDITION : N/A
 AREA (ha) : 300 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Borrow/BST/Basecourse STOCKPILE - TYPE : BST
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Production LAST INVEST. DATE : 1988
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 1
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : 3.0
 DATA QUALITY : Fair

SOURCE TOPOGRAPHY : Riverbed SLOPE : Gentle

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Large Spruce

PERMAFROST FEATURES : None

ACTIVE LAYER (m) : N/A

GENERIC ORIGIN : Alluvial

GRANULAR - TYPE : GM/GP, GW/GM, GW

- THICKNESS (m) : Unknown

DESCRIPT. DATE : 1991

LANDFORMS : Outwash

OVERBURDEN - TYPE : Silty Sand

- THICKNESS (m): Unknown

UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Water Table, Silver City Historical Site

DEVELOP. POTENTIAL : Excellent

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 20
 - CLASS : N/A - RESULTS: 1-2-4
 SIZE ANALYSIS - NO. : 22 GRAVEL (%) : 27-44-48 SAND (%) : 45-48-51 FINES (%): 4-6-8
 - OVERSIZE (%) : 10 D-50 (um) : 25000 - 4000

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres)

CLASS 1 : Unknown

CLASS 2 : 2 500 000

TOTAL RECOVERABLE : 4 500 000

CLASS 3 : 2 000 000

ANNUAL RECOVERABLE : N/A

CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : 4 500 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.

LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-17158B STUDY NO. : YTG91HJCT01
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-632500 LOCATION : Kluane Lake Area
 UTM NORTHING : 6774500
 LOCAL NAMES(S) : Williscroft Creek
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1715.8 OFFSET(m) : Adjacent

SOURCE ACCESS : 1716 (Right Side)
 ACCESS DISTANCE (m) : 100 CONDITION : Fair
 AREA (ha) : 2 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS :
 PAST USE - SOURCE : Ditching-Creek Dykes, Borrow STOCKPILE - TYPE : None
 PERFORMANCE RATING : Good - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 0
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Flat SLOPE : Gentle Slope
 AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Moderate to Heavy Spruce
 PERMAFROST FEATURES : None

ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Alluvial LANDFORMS : Outwash Fan
 GRANULAR - TYPE : GP OVERBURDEN - TYPE : Silty Sand
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Flooding, Water Table
 DEVELOP. POTENTIAL : Very Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 5 MOISTURE CONTENT - NUMBER : 0
 - CLASS : GW - RESULTS: N/A
 SIZE ANALYSIS - NO. : 5 GRAVEL (%) : 55-60-68 SAND (%) : 30-35-45 FINES (%) : 1-2-2
 - OVERSIZE (%) : 0 D-50 (um) : 16000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 80 000
 TOTAL RECOVERABLE : 80 000 CLASS 3 : Unknown
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-17190L STUDY NO. : No Previous Study
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-631500 LOCATION : Kluane Lake Area
 UTM NORTHING : 6776900
 LOCAL NAMES(S) : No Name Creek
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1719.0 OFFSET(m) : Left

SOURCE ACCESS : None
 ACCESS DISTANCE (m) : N/A CONDITION : N/A
 AREA (ha) : 2 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Undeveloped
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : None
 PERFORMANCE RATING : Unknown - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 1
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : 2

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle to Moderate
 AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Moderate to Heavy Spruce

PERMAFROST FEATURES : None
 ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Alluvial LANDFORMS : Outwash
 GRANULAR - TYPE : Sandy Gravel OVERBURDEN - TYPE : Silt
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Limited Accessibility
 DEVELOP. POTENTIAL : Poor

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Lt.d.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-17250B STUDY NO. : YTG91HJCT01; INAC77HJCT01
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-630500 LOCATION : Kluane Lake Area
 UTM NORTHING : 6781250
 LOCAL NAMES(S) : Congdon Creek
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1725.0 OFFSET(m) : Both

SOURCE ACCESS : Haul Road
 ACCESS DISTANCE (m) : 100 CONDITION : Good
 AREA (ha) : 5 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Borrow/Dyking/BST STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance/Production LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 1
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : 3
 DATA QUALITY : Good
 SOURCE TOPOGRAPHY : Gently Rolling SLOPE : Flat to Gentle
 AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Spruce, Willows
 PERMAFROST FEATURES : None
 ACTIVE LAYER (m) : N/A DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Alluvial LANDFORMS : Fan and Terraces
 GRANULAR - TYPE : Sandy Gravel OVERBURDEN - TYPE : Silt
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown
 DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 25 MOISTURE CONTENT - NUMBER : 25
 - CLASS : GW/GM - RESULTS: Average: 2.6
 SIZE ANALYSIS - NO. : 25 GRAVEL (%) : Avg: 49 SAND (%) : Avg: 46 FINES (%) : Avg: 5
 - OVERSIZE (%) : 0 D-50 (um) : Avg: 5000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 150 000
 TOTAL RECOVERABLE : 150 000 CLASS 3 : Unknown
 ANNUAL RECOVERABLE : N/A CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-17295L STUDY NO. : No Previous Study
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-627750 LOCATION : Kluane Lake Area
 UTM NORTHING : 6783000
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1729.5 OFFSET(m) : Left

SOURCE ACCESS : No Access
 ACCESS DISTANCE (m) : N/A CONDITION : N/A
 AREA (ha) : Unknown SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Recent PWC Permit
 PAST USE - SOURCE : None STOCKPILE - TYPE : None
 PERFORMANCE RATING : N/A - QUANTITY : N/A

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Airphoto LAST INVEST. DATE : None
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 0
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A
 DATA QUALITY : No Data

SOURCE TOPOGRAPHY : Hummocky SLOPE : Moderate

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Spruce

PERMAFROST FEATURES : Unknown

ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1991

GENERIC ORIGIN : Alluvial LANDFORMS : Terrace

GRANULAR - TYPE : Unknown OVERBURDEN - TYPE : Unknown

- THICKNESS (m) : Unknown - THICKNESS (m): Unknown

UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown

DEVELOP. POTENTIAL : Unknown

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0

- CLASS : N/A - RESULTS: N/A

SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A

- OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown

CLASS 2 : Unknown

TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown

ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd,

LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-17361B STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-622250 LOCATION : Destruction Bay Area
 UTM NORTHING : 6788500
 LOCAL NAMES(S) : Mines Creek
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1736.1 OFFSET(m) : Both

SOURCE ACCESS : Along Creek Bed
 ACCESS DISTANCE (m) : Adjacent CONDITION : Unknown
 AREA (ha) : 2 SITE SCALE: DIGITIZ NO:

LAND TENURE : Gravel Pit Reserve Plan STATUS : Active
 PAST USE - SOURCE : Borrow-Surfacing STOCKPILE - TYPE : Gravel
 PERFORMANCE RATING : Fair - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1981
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 1
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : 3

DATA QUALITY : Poor

SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle Slope

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Spruce

PERMAFROST FEATURES : Unknown

ACTIVE LAYER (m) : Unknown

DESCRIPT. DATE : 1981

GENERIC ORIGIN : Alluvial

LANDFORMS : Fan

GRANULAR - TYPE : Sandy Gravel

OVERBURDEN - TYPE : Unknown

- THICKNESS (m) : Unknown

- THICKNESS (m): Unknown

UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown

DEVELOP. POTENTIAL : Fair

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : N/A
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 29 GRAVEL (%) : 16-30-41 SAND (%) : 36-39-41 FINES (%) : 18-30-43
 - OVERSIZE (%) : Unknown D-50 (um) : Avg: 2000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres)

CLASS 1 : Unknown

CLASS 2 : 50 000

TOTAL RECOVERABLE : 50 000

CLASS 3 : Unknown

ANNUAL RECOVERABLE : Unknown

CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : 50 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.

LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-17387B STUDY NO. : FHIL81HJCT01; INAC77HJCT01
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-621000 LOCATION : Destruction Bay Area
 UTM NORTHING : 6789500
 LOCAL NAMES(S) : Bocks Brook
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1738.7 OFFSET(m) : Both

SOURCE ACCESS : Along Creek Bed
 ACCESS DISTANCE (m) : Unknown CONDITION : Unknown
 AREA (ha) : 2 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Fair - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Reconnaissance LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : ? TESTPITS - NO. : ? EXPOSURES - NO. : 1
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : 3.0

DATA QUALITY : Good
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle Slope
 AREA DRAINAGE : Poor to Well Drained
 SOURCE VEGETATION : Light Poplar
 PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Alluvial LANDFORMS : Fan
 GRANULAR - TYPE : Sandy Gravel OVERBURDEN - TYPE : Unknown
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Permafrost, Pipeline Reserve?
 DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : ?
 - CLASS : - RESULTS: N/A
 SIZE ANALYSIS - NO. : 8 GRAVEL (%) : Avg: 53 SAND (%) : Avg: 42 FINES (%) : Avg: 5
 - OVERSIZE (%) : 15 D-50 (um) : Avg: 7000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 1 RESULTS: c-235,f-206

OTHER TESTS (see DATA DICTIONARY): Unknown

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 400 000
 TOTAL RECOVERABLE : 660 000 CLASS 3 : 260 000
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 660 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-17490B STUDY NO. : FHIL81HJCT01; INAC77HJCT01
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-614000 LOCATION : Destruction/Burwash Ldg.
 UTM NORTHING : 6798000
 LOCAL NAMES(S) : Lewis Creek
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1749.0 OFFSET(m) : Both

SOURCE ACCESS : Along Highway
 ACCESS DISTANCE (m) : Adjacent CONDITION : Good
 AREA (ha) : 15 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Active
 PAST USE - SOURCE : Borrow - Crush Site STOCKPILE - TYPE : Pit - Basecourse
 PERFORMANCE RATING : Good - QUANTITY : 500 cu. yds.

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1981
 GEOPHYSICAL DATA : EM31 TEST HOLE DENSITY (#/ha) : 0.7
 BOREHOLES - NUMBER : 4 TESTPITS - NO. : 5 EXPOSURES - NO. : 1
 - DEPTH (m): 10-15-18 - DEPTH (m): 3.0-3.3-3.4 - DEPTH (m) : 2.5

DATA QUALITY : Excellent

SOURCE TOPOGRAPHY : Hummocky SLOPE : Flat to Moderate

AREA DRAINAGE : Poor to Well Drained

SOURCE VEGETATION : Black Spruce

PERMAFROST FEATURES : Nf, Nb

ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1981

GENERIC ORIGIN : Alluvial LANDFORMS : Fan

GRANULAR - TYPE : Sandy Gravel OVERBURDEN - TYPE : Organics
 - THICKNESS (m) : 2.6-6.2-7.1 - THICKNESS (m): 0.0-0.2-0.4

UNDERBURDEN : Silt

DEVELOP. CONSTRAINT : Extensive Permafrost in Uncleared Areas

DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 12 MOISTURE CONTENT - NUMBER : 27
 - CLASS : SM/SW-GW-GP - RESULTS: 2-5-10
 SIZE ANALYSIS - NO. : 12 GRAVEL (%) : 44-55-62 SAND (%) : 34-40-47 FINES (%) : 2-5-10
 - OVERSIZE (%) : 5 D-50 (um) : 6000-9000-10000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: Unknown

OTHER TESTS (see DATA DICTIONARY): Unknown

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 300 000
 TOTAL RECOVERABLE : 400 000 CLASS 3 : 100 000
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 400 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 01-17520B STUDY NO. : FHIL81HJCT01; INAC77HJCT01
 NTS MAP REFERENCE : 115F&G DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 7-612500 LOCATION : Destruction/Burwash Ldg.
 UTM NORTHING : 6799250
 LOCAL NAMES(S) : Halfbreed Creek
 CORRIDOR NO./NAME : Alaska Highway #1
 KILOMETRE POST : 1752.0 OFFSET(m) : Both

SOURCE ACCESS : Along Creek Bed, Access Roads
 ACCESS DISTANCE (m) : Variable CONDITION :
 AREA (ha) : 20 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow-Creek Dykes STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1981
 GEOPHYSICAL DATA : EM31 TEST HOLE DENSITY (#/ha) : 0.8
 BOREHOLES - NUMBER : 5 TESTPITS - NO. : 11 EXPOSURES - NO. : 1
 - DEPTH (m) : 3.1-3.2-4.5 - DEPTH (m) : 1.6-8-10.1 - DEPTH (m) : 3
 DATA QUALITY : Excellent
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Flat - Gently Rolling
 AREA DRAINAGE : Poor to Well Drained
 SOURCE VEGETATION : Moderate Alder, Spruce
 PERMAFROST FEATURES : Nf Nbn
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1981
 GENERIC ORIGIN : Alluvial LANDFORMS : Fan
 GRANULAR - TYPE : Sandy Gravel OVERBURDEN - TYPE : Organics
 - THICKNESS (m) : 1.0-3.4-8.8 - THICKNESS (m) : 0.0-1.0-3.5
 UNDERBURDEN : Bedrock - Silt
 DEVELOP. CONSTRAINT : Permafrost, Depth of Overburden
 DEVELOP. POTENTIAL : Fair

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 13 MOISTURE CONTENT - NUMBER :
 - CLASS : SM;GM;SP;GW:GP:GM/GW - RESULTS:
 SIZE ANALYSIS - NO. : 13 GRAVEL (%) : 24-48-65 SAND (%) : 29-42-59 FINES (%) : 2-10-32
 - OVERSIZE (%) : 5 D-50 (um) : 5000-6000-8000

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: Unknown

OTHER TESTS (see DATA DICTIONARY): Unknown

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 250 000
 TOTAL RECOVERABLE : 350 000 CLASS 3 : 100 000
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 350 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-02330B STUDY NO. : PWC78HJCT01; INAC77HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-372500 LOCATION : South of Haines Junction
 UTM NORTHING : 6729000
 LOCAL NAMES(S) : Quill Creek
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 233.0 OFFSET(m) : Both

SOURCE ACCESS : Haul Road
 ACCESS DISTANCE (m) : 300 CONDITION : Good
 AREA (ha) : 50 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Borrow/Basecourse/BST STOCKPILE - TYPE : Basecourse
 PERFORMANCE RATING : Good - QUANTITY : +/- 500

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1974
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0.12
 BOREHOLES - NUMBER : 17 TESTPITS - NO. : 7 EXPOSURES - NO. : 2
 - DEPTH (m) : 7.6-8.0-12.2 - DEPTH (m) : 2.5-2.5-2.5 - DEPTH (m) : 6

DATA QUALITY : Good
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Flat to Gentle
 AREA DRAINAGE : Poor to Well Drained
 SOURCE VEGETATION : Thick Spruce, Poplar
 PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Alluvial LANDFORMS : Fan
 GRANULAR - TYPE : Sandy Gravel OVERBURDEN - TYPE : Silt
 - THICKNESS (m) : 7.5-7.5-7.5 - THICKNESS (m) : 0.2-0.5-1.0
 UNDERBURDEN : Silt

DEVELOP. CONSTRAINT : Need Additional Investigation
 DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 9 MOISTURE CONTENT - NUMBER : 30
 - CLASS : GP-GM/GW-GM-SM - RESULTS: 2-4-5
 SIZE ANALYSIS - NO. : 56 GRAVEL (%) : 42-66-88 SAND (%) : 8-27-35 FINES (%) : 2-4-13
 - OVERSIZE (%) : Unknown D-50 (um) : 9000-10000-20000

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 200 000
 TOTAL RECOVERABLE : 200 000 CLASS 3 : Unknown
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 200 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-02150R STUDY NO. : PWC79HJCT05
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-383000 LOCATION : South of Haines Junction
 UTM NORTHING : 6715000
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 215.0 OFFSET(m) : Right

SOURCE ACCESS : Pit Entrance
 ACCESS DISTANCE (m) : 50 CONDITION : Good
 AREA (ha) : 10 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1979
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0.8
 BOREHOLES - NUMBER : 24 TESTPITS - NO. : 16 EXPOSURES - NO. : 1
 - DEPTH (m) : 3.0-6.9-9.1 - DEPTH (m) : 3.0-3.0-3.0 - DEPTH (m) : Unknown

DATA QUALITY : Excellent

SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle Slope

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Heavy Spruce, Poplar

PERMAFROST FEATURES : Unknown

ACTIVE LAYER (m) : Unknown

DESCRIPT. DATE : 1979

GENERIC ORIGIN : Alluvial

LANDFORMS : Fan

GRANULAR - TYPE : Sandy Gravel

OVERBURDEN - TYPE : Organics

- THICKNESS (m) : 2.7-5.8-9.0

- THICKNESS (m) : 0-0.1-0.2

UNDERBURDEN : Silty Gravel

DEVELOP. CONSTRAINT : Material is Variable

DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 16 MOISTURE CONTENT - NUMBER : ?
 - CLASS : SM-SW-GP-GW - RESULTS: Avg: 3%
 SIZE ANALYSIS - NO. : 16 GRAVEL (%) : 36-54-68 SAND (%) : 28-38-56 FINES (%) : 1-8-19
 - OVERSIZE (%) : 2:10:20 D-50 (um) : 800-12500-16000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): L.A. Abrasion: 16% loss

MATERIAL QUANTITY (All in cubic metres)

CLASS 1 : Unknown

CLASS 2 : 250 000

TOTAL RECOVERABLE : 500 000

CLASS 3 : 250 000

ANNUAL RECOVERABLE : Unknown

CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : 500 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.

LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-02085R STUDY NO. : PWC79HJCT06
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-386250 LOCATION : South of Haines Junction
 UTM NORTHING : 6710000
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 208.5 OFFSET(m) : Right

SOURCE ACCESS : Unknown
 ACCESS DISTANCE (m) : Unknown CONDITION : Unknown
 AREA (ha) : 9 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Borrow - Crusher Site STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknwon

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Data Collection LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 0
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Unknown SLOPE : Flat
 AREA DRAINAGE : Unknown
 SOURCE VEGETATION : Heavy Poplar
 PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown
 GENERIC ORIGIN : Unknown
 GRANULAR - TYPE : Sandy Gravel
 - THICKNESS (m) : Unknown

DESCRIPT. DATE : 1991
 LANDFORMS : Unknown
 OVERBURDEN - TYPE : Unknown
 - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Unknown

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-01910L STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-386750 LOCATION : South of Haines Junction
 UTM NORTHING : 6692500
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 191.0 OFFSET(m) : Left

SOURCE ACCESS : Unknown
 ACCESS DISTANCE (m) : Unknown CONDITION : Unknown
 AREA (ha) : Unknown SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Unknown - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Data Collection LAST INVEST. DATE : ?
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : ?
 BOREHOLES - NUMBER : ? TESTPITS - NO. : ? EXPOSURES - NO. : ?
 - DEPTH (m): ? - DEPTH (m): ? - DEPTH (m) : ?

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Flat
 AREA DRAINAGE : Unknown
 SOURCE VEGETATION : Thick Alder
 PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : Unknown
 GENERIC ORIGIN : Unknown LANDFORMS : Unknown
 GRANULAR - TYPE : Unknown OVERBURDEN - TYPE : Unknown
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Unknown

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%): N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): N/A

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-01890L STUDY NO. : YTG91HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-387000 LOCATION : South of Haines Junction
 UTM NORTHING : 6691500
 LOCAL NAMES(S) : None
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 189.0 OFFSET(m) : Left

SOURCE ACCESS : Pit Entrance
 ACCESS DISTANCE (m) : 50 CONDITION : Good
 AREA (ha) : 8 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Gravel Reserve
 PAST USE - SOURCE : BST/Borrow/Basecourse STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1979
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 1.8
 BOREHOLES - NUMBER : 14 TESTPITS - NO. : 0 EXPOSURES - NO. : 1
 - DEPTH (m) : 6.0-8.7-11.0 - DEPTH (m) : N/A - DEPTH (m) : Unknown

DATA QUALITY : Good
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Moderate Slope
 AREA DRAINAGE : Unknown

SOURCE VEGETATION : Unknown
 PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Unknown LANDFORMS : Unknown
 GRANULAR - TYPE : Gravel and Sand OVERBURDEN - TYPE : Unknown
 - THICKNESS (m) : 6.0-8.7-11.0 - THICKNESS (m) : Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Coarse Below 6.0 m
 DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 24 MOISTURE CONTENT - NUMBER : 24
 - CLASS : GW/GM-GP-SW/SM-GW-SP/SM - RESULTS: 2-3-4
 SIZE ANALYSIS - NO. : 24 GRAVEL (%) : 22-44-63 SAND (%) : 35-45-70 FINES (%) : 3-6-10
 - OVERSIZE (%) : 10% D-50 (um) : Avg: 4000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 200 000
 TOTAL RECOVERABLE : 500 000 CLASS 3 : 300 000
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 500 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-01830L STUDY NO. : PWC79HJCT03
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-387500 LOCATION : South of Haines Junction
 UTM NORTHING : 6687000
 LOCAL NAMES(S) : Gribbles Gulch
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 183.0 OFFSET(m) : Left

SOURCE ACCESS : Pit Entrance
 ACCESS DISTANCE (m) : Unknown CONDITION : Unknown
 AREA (ha) : Unknown SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Unknown STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Unknown - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Goetechnical LAST INVEST. DATE : 1979
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : ?
 BOREHOLES - NUMBER : 10 TESTPITS - NO. : 0 EXPOSURES - NO. : ?
 - DEPTH (m): 5.0-5.2-6.5 - DEPTH (m): N/A - DEPTH (m) : Unknown

DATA QUALITY : Good
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle to Moderate
 AREA DRAINAGE : Unknown
 SOURCE VEGETATION : Unknown
 PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1979
 GENERIC ORIGIN : Alluvial LANDFORMS : Terrace
 GRANULAR - TYPE : Sandy Gravel OVERBURDEN - TYPE : Silty Sand/Clay
 - THICKNESS (m) : 1.5-4.4-5.0 - THICKNESS (m): 0.2-0.5-0.6
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 23 MOISTURE CONTENT - NUMBER : 27
 - CLASS : SM/SP-SM-GM-GM/GW - RESULTS: 4-8-11
 SIZE ANALYSIS - NO. : 27 GRAVEL (%) : 35-50-65 SAND (%) : 30-41-53 FINES (%) : 4-9-22
 - OVERSIZE (%) : Unknown D-50 (um) : 100:5000:12500

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-01720R STUDY NO. : PWC79HJCT04
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-391750 LOCATION : South of Haines Junction
 UTM NORTHING : 6678000
 LOCAL NAMES(S) : Vand Creek
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 172.0 OFFSET(m) : Right

SOURCE ACCESS : Pit Entrance
 ACCESS DISTANCE (m) : Unknown CONDITION : Good
 AREA (ha) : Unknown SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Basecourse/BST STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Production/Geotechnical LAST INVEST. DATE : 1979
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : ?
 BOREHOLES - NUMBER : 2 TESTPITS - NO. : 6 EXPOSURES - NO. : 1
 - DEPTH (m): 1-3.3 - DEPTH (m): 2.0-2.6-3.1 - DEPTH (m) : Unknown

DATA QUALITY : Good

SOURCE TOPOGRAPHY : Unknown SLOPE : Unknown

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Unknown

PERMAFROST FEATURES : Unknown

ACTIVE LAYER (m) : N/A

DESCRIPT. DATE : 1991

GENERIC ORIGIN : Alluvial

LANDFORMS : Terrace

GRANULAR - TYPE : Gravel and Sand

OVERBURDEN - TYPE : Unknown

- THICKNESS (m) : 1.0-2.4-3.3

- THICKNESS (m): Unknown

UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Cobbles and Boulders at 3.0 m

DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 8 MOISTURE CONTENT - NUMBER : 8
 - CLASS : GM/GW-SP/SM-GP-SP - RESULTS: 1-2-3
 SIZE ANALYSIS - NO. : 8 GRAVEL (%) : 15-49-69 SAND (%) : 25-43-68 FINES (%) : 3-8-17
 - OVERSIZE (%) : 10% D-50 (um) :

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres)

CLASS 1 : Unknown

CLASS 2 : Unknown

TOTAL RECOVERABLE : Unknown

CLASS 3 : Unknown

ANNUAL RECOVERABLE : Unknown

CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.

LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-01696L STUDY NO. : PWC79HJCT01; PWC79HJCT02
 NTS MAP REFERENCE : 115 A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-390750 LOCATION : South of Haines Junction
 UTM NORTHING : 6676050
 LOCAL NAMES(S) : Motherall Creek
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 169.6 OFFSET(m) : Left

SOURCE ACCESS : Adjacent to Highway
 ACCESS DISTANCE (m) : Unknown CONDITION : Unknown
 AREA (ha) : 10 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1988
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 4.5
 BOREHOLES - NUMBER : 8 TESTPITS - NO. : 37 EXPOSURES - NO. : 1
 - DEPTH (m): 3.0-5.8-10.0 - DEPTH (m): 3.0-4.2-6.2 - DEPTH (m) : Unknown
 DATA QUALITY : Good

SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle to Moderate
 AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Moderate Spruce, Alder
 PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Alluvial LANDFORMS : Terrace
 GRANULAR - TYPE : Sand and Gravel OVERBURDEN - TYPE : Silt/Organics
 - THICKNESS (m) : 1.5-3.8-6.1 - THICKNESS (m): 0.0-0.4-2.0
 UNDERBURDEN : Silt/Clay

DEVELOP. CONSTRAINT : Water Table, Clay Underburden
 DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 39 MOISTURE CONTENT - NUMBER : 0
 - CLASS : GP-GW-SM/SW - RESULTS: N/A
 SIZE ANALYSIS - NO. : 39 GRAVEL (%) : 3-55-80 SAND (%) : 19-44-95 FINES (%) : 1-3-10
 - OVERSIZE (%) : 5 D-50 (um) :

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 TOTAL RECOVERABLE : 300 000 CLASS 2 : 200 000
 ANNUAL RECOVERABLE : Unknown CLASS 3 : 100 000
 CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 300 000

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 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-0162AL STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-389250 LOCATION : South of Haines Junction
 UTM NORTHING : 6668200
 LOCAL NAMES(S) : Dalton Post Road
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 162 OFFSET(m) : 1500 Left

SOURCE ACCESS : Access Road
 ACCESS DISTANCE (m) : 1300 CONDITION : Good
 AREA (ha) : Unknown SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Unknown - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Data Review LAST INVEST. DATE : ?
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : ?
 BOREHOLES - NUMBER : ? TESTPITS - NO. : ? EXPOSURES - NO. : ?
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A

DATA QUALITY : Poor
 SOURCE TOPOGRAPHY : Hummocky SLOPE : Unknown
 AREA DRAINAGE : Poor to Well Drained

SOURCE VEGETATION : Heavy Alder, Spruce
 PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Glaciofluvial LANDFORMS : Terrace
 GRANULAR - TYPE : Unknown OVERBURDEN - TYPE : Unknown
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Unknown

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-01620R STUDY NO. : INAC77HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-391000 LOCATION : South of Haines Junction
 UTM NORTHING : 6668600
 LOCAL NAMES(S) : Pringle Lake
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 162.0 OFFSET(m) : Right

SOURCE ACCESS : Adjacent
 ACCESS DISTANCE (m) : 50 CONDITION : Unknown
 AREA (ha) : 9.25 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Borrow - Surfacing STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Data Review LAST INVEST. DATE : 1991
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 0 EXPOSURES - NO. : 0
 - DEPTH (m): N/A - DEPTH (m): N/A - DEPTH (m) : N/A
 DATA QUALITY : Poor

SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle Slope

AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Heavy Spruce, Poplar

PERMAFROST FEATURES : Unknown
 ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1991
 GENERIC ORIGIN : Glaciofluvial LANDFORMS : Terrace
 GRANULAR - TYPE : Sandy Gravel OVERBURDEN - TYPE : Unknown
 - THICKNESS (m) : Unknown - THICKNESS (m): Unknown
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : Unknown
 DEVELOP. POTENTIAL : Unknown

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 0 MOISTURE CONTENT - NUMBER : 0
 - CLASS : N/A - RESULTS: N/A
 SIZE ANALYSIS - NO. : 0 GRAVEL (%) : N/A SAND (%) : N/A FINES (%) : N/A
 - OVERSIZE (%) : N/A D-50 (um) : N/A

PETROGRAHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : Unknown
 TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-01572L STUDY NO. : PWC79HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-393250 LOCATION : South of Haines Junction
 UTM NORTHING : 6663750
 LOCAL NAMES(S) : Takhanne Pit
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 157.2 OFFSET(m) : 1000 Left

SOURCE ACCESS : Haul Road
 ACCESS DISTANCE (m) : 1000 CONDITION : Good
 AREA (ha) : 200 SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : YTG Maintenance Pit
 PAST USE - SOURCE : Borrow, BST, Basecourse STOCKPILE - TYPE : BST
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1988
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : 0.2
 BOREHOLES - NUMBER : 11 TESTPITS - NO. : 23 EXPOSURES - NO. : 1
 - DEPTH (m) : 6.0-11.3-15.0 - DEPTH (m) : 2.5-3.4-3.5 - DEPTH (m) : Unknown
 DATA QUALITY : Excellent

SOURCE TOPOGRAPHY : Hummocky SLOPE : Steep Sidehill

AREA DRAINAGE : Well Drained
 SOURCE VEGETATION : Light Spruce, Alder
 PERMAFROST FEATURES : Unknown

ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1979
 GENERIC ORIGIN : Alluvial LANDFORMS : Terrace
 GRANULAR - TYPE : Sand and Gravel OVERBURDEN - TYPE : Silty Sand
 - THICKNESS (m) : 3.5-10.0-15.0 - THICKNESS (m) : 0.5-1.0
 UNDERBURDEN : Unknown

DEVELOP. CONSTRAINT : None
 DEVELOP. POTENTIAL : Good

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 49 MOISTURE CONTENT - NUMBER : 49
 - CLASS : SM/SW-SP-GW-GP - RESULTS: 2-4-6
 SIZE ANALYSIS - NO. : 49 GRAVEL (%) : 46-50-67 SAND (%) : 31-41-51 FINES (%) : 2-4-5
 - OVERSIZE (%) : <5% D-50 (um) : Avg: 5000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown
 CLASS 2 : 500 000
 TOTAL RECOVERABLE : 1 000 000 CLASS 3 : 500 000
 ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown
 CLASS 5 : Unknown
 TOTAL VOLUME : 1 000 000

RECORD UPDATED BY : EBA Engineering Consultants Ltd.
 LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507

GRANULAR RESOURCE INVENTORIES
MAYO AND HAINES JUNCTION AREAS, YUKON
SOURCE CATALOGUE DATA SHEET

===== PART A: LOCATION AND STATUS =====

SOURCE NUMBER : 03-01430R STUDY NO. : PWC79HJCT01
 NTS MAP REFERENCE : 115A DIGITIZ NO. : MAP SCALE : 1:250000
 UTM ZONE-EASTING : 8-396000 LOCATION : South of Haines Junction
 UTM NORTHING : 6655750
 LOCAL NAMES(S) : Near Blanchard
 CORRIDOR NO./NAME : Haines Road, Highway #3
 KILOMETRE POST : 143.0 OFFSET(m) : Right

SOURCE ACCESS : Unknown
 ACCESS DISTANCE (m) : Unknown CONDITION : Unknown
 AREA (ha) : Unknown SITE SCALE: DIGITIZ NO:

LAND TENURE : Federal STATUS : Unknown
 PAST USE - SOURCE : Borrow STOCKPILE - TYPE : Unknown
 PERFORMANCE RATING : Good - QUANTITY : Unknown

===== PART B: SOURCE INVESTIGATION AND DESCRIPTIVE INFORMATION =====

INVESTIGATION LEVEL : Geotechnical LAST INVEST. DATE : 1988
 GEOPHYSICAL DATA : None TEST HOLE DENSITY (#/ha) : ?
 BOREHOLES - NUMBER : 0 TESTPITS - NO. : 7 EXPOSURES - NO. : 1
 - DEPTH (m): N/A - DEPTH (m): 4.0-4.4-4.6 - DEPTH (m) : Unknown

DATA QUALITY : Fair

SOURCE TOPOGRAPHY : Hummocky SLOPE : Gentle to Moderate Slope

AREA DRAINAGE : Well Drained

SOURCE VEGETATION : Moderate Spruce, Poplar

PERMAFROST FEATURES : Unknown

ACTIVE LAYER (m) : Unknown DESCRIPT. DATE : 1988

GENERIC ORIGIN : Glaciofluvial LANDFORMS : Terrace

GRANULAR - TYPE : Sand and Gravel OVERBURDEN - TYPE : Peat and Silt

- THICKNESS (m) : 3.0-3.8-4.4 - THICKNESS (m) : 0.2-0.2-0.3

UNDERBURDEN : Silt

DEVELOP. CONSTRAINT : Unknown

DEVELOP. POTENTIAL : Fair

===== PART C: TEST RESULTS AND MATERIAL QUANTITY =====

USC - NUMBER : 8 MOISTURE CONTENT - NUMBER : 9
 - CLASS : GP-SP-GW - RESULTS: 2-3-4

SIZE ANALYSIS - NO. : 0 GRAVEL (%) : SAND (%) : FINES (%):
 - OVERSIZE (%) : 5-10 D-50 (um) : Avg: 4000

PETROGRAPHIC ANALYSIS-NO. OF TESTS: 0 RESULTS: N/A

OTHER TESTS (see DATA DICTIONARY): 0

MATERIAL QUANTITY (All in cubic metres) CLASS 1 : Unknown

CLASS 2 : Unknown

TOTAL RECOVERABLE : Unknown CLASS 3 : Unknown

ANNUAL RECOVERABLE : Unknown CLASS 4 : Unknown

CLASS 5 : Unknown

TOTAL VOLUME : Unknown

RECORD UPDATED BY : EBA Engineering Consultant Ltd.

LAST UPDATE : 07/25/91

EBA PROJECT NUMBER : 0201-10507