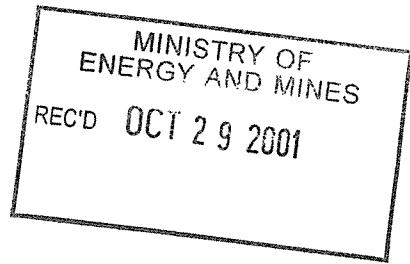


**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY**

**REPORT ON
STAGE 3 CONSTRUCTION
(REF. NO. 11162/14-3)**



MOUNT POLLEY MINING CORPORATION
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REPORT ON
STAGE 3 CONSTRUCTION
(REF. NO. 11162/14-3)

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MOUNT POLLEY MINING CORPORATION
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TAILINGS STORAGE FACILITY

REPORT ON STAGE 3 CONSTRUCTION
(REF. NO. 11162/14-3)

SECTION 1.0 - INTRODUCTION

1.1 **PROJECT DESCRIPTION**

The Mount Polley gold and copper mine is owned and operated by Mount Polley Mining Corporation (MPMC). It is located in central British Columbia, 56 kilometres northeast of Williams Lake, as shown on Figure 1.1. Ore is crushed and processed by selective flotation to produce a copper-gold concentrate. The current mill throughput rate is approximately 20,000 tonnes per day (7.3 million tonnes per year). The mine has been in production since June 13, 1997, but MPMC recently announced that operations will be suspended at the end of September, 2001 due to low copper and gold prices. An overall site plan of the Mount Polley Mine is shown on Drawing 11162-13-100.

Mill tailings are discharged as a slurry into the Tailings Storage Facility, which has been designed to provide environmentally secure storage of the solid and liquid components. The sub-aerial method of deposition is used to discharge tailings onto the beach from frequently rotated points around the perimeter of the facility. This produces a deposit that comprises numerous thin layers of tailings. The separation of liquids from solids is maximized and supernatant water and drainage flows are intercepted and recycled back to the mill for re-use in the process.

Knight Piésold Ltd. was originally engaged by Imperial Metals Corporation to provide engineering services for the design of the Tailings Storage Facility in 1989. Over the period since, Knight Piésold Ltd. has provided the following services:

- Detailed design of all stages of the Tailings Storage Facility and Ancillary Works completed to date.
- Preparation of contract documents and technical specifications for all stages of the Tailings Storage Facility construction to date.
- Construction supervision and quality assurance/quality control (QA/QC) for all stages of the Tailings Storage Facility completed to date.
- Site investigations and evaluations for engineering design and construction materials suitability.
- Consulting services on all aspects of the operation and monitoring of the Tailings Storage Facility.

The tailings embankments were recently raised under Stage 3 construction to El. 942.5 m. Work started in April 2000 and finished in August 2001. Knight Piésold Ltd. provided design, construction supervision and quality assurance/quality control (QA/QC) services for the embankment raise. Knight Piésold Ltd. also conducted on-going reviews of all instrumentation and monitoring records during construction and completed an annual inspection of the facility. The annual inspection is documented in a separate report. This report gives the details of Stage 3 construction.

1.2 TAILINGS STORAGE FACILITY

The Tailings Storage Facility is comprised of the following:

- A pipeline system conveys the tailings slurry via gravity from the Millsite to the Tailings Storage Facility. This system includes movable discharge sections with one end dump discharge to distribute the tailings along the embankment crest.
- A make-up water supply system provides extra water to the Tailings Storage Facility. This serves as a temporary storage and transfer point prior to pumping to the mill. This system comprises an intake and pump at Polley Lake and a pipeline to convey water to the Tailings Storage Facility. The water is discharged into the Tailings Storage Facility near the West abutment of the Perimeter Embankment.

- A Millsite Sump and Southeast Sediment Pond provide additional make-up water to the system by collecting drainage from the millsite and Southeast Waste Dump. Millsite runoff is directed from the Millsite Sump into the tailings line near the mill. Flows from the Southeast Sediment Pond enter the system at the reclaim booster pump station or at the T2 Tailings Drop Box.
- Graded earthfill and rockfill embankments with internal filters and drains retain the tailings solids in the Tailings Storage Facility. The embankments have been raised in stages by a combination of centreline and modified centreline approaches. A 5 metre high downstream rockfill buttress has been constructed at the Main Embankment to enhance embankment stability. This buttress is located from the valley bottom to El. 920 m.
- A low permeability basin liner (natural and constructed) covers the base of the entire facility to provide containment of process fluids and to minimize the potential for seepage through the underlying soils.
- A foundation drain and pressure relief well system located downstream of the Stage 1B Main Embankment prevent the build-up of pore pressure in foundation and collect seepage from the base of the Tailings Storage Facility.
- Seepage collection ponds located downstream of the Main and Perimeter Embankments were excavated in low permeability soils to store water collected from the embankment drains and from local runoff. Water from these ponds is pumped back into the Tailings Storage Facility and ultimately to the mill for use in the milling process.
- Instrumentation in the tailings, embankments and foundations, including vibrating wire piezometers, survey monuments, slope inclinometers and the measurement of drain flows, is used to monitor the performance of the Tailings Storage Facility.

- A reclaim water system, comprised of a barge mounted pump station in an excavated channel, an in-line booster pump station and a pipeline for recycling process water to the mill, is used to remove water from the Tailings Storage Facility for use in the mill process.
- A system of monitoring wells installed around the Tailings Storage Facility is used for groundwater quality monitoring.

This description of the Tailings Storage Facility components has been included for information purposes. Work was not undertaken on all of the components during the Stage 3 construction program.

1.3 SCOPE OF REPORT

This report documents the Stage 3 construction. It includes a discussion of the construction methods used to complete the work, the results of quality assurance tests carried out during construction and a review of the new instrumentation and monitoring results from the construction program. Summaries and recommendations from the instrumentation reviews are included. The report also includes a complete and updated set of drawings issued as "As Constructed" for Stage 3.

SECTION 2.0 - STAGE 3 CONSTRUCTION

2.1 GENERAL

The Stage 3 raise of the Mount Polley Mine Tailings Storage Facility was constructed in 2000 and 2001. The work consisted mostly of raising the embankments but also included a small amount of work on the tailings basin and tailings distribution system. Drawing 11162-13-102 provides an overall plan view of the embankments and the facility and outlines the limits of the Stage 3 raise. The Stage 3 Main Embankment Plan is shown on Drawing 11162-13-210. Main Embankment sections are shown on Drawing 11162-13-215. The Stage 3 Perimeter Embankment Plan is presented on Drawing 11162-13-120 while the Perimeter Embankment sections are shown on Drawing 11162-13-125. The Stage 3 South Embankment plan and section are shown on Drawing 11162-13-130.

Construction of the embankment raises were split between Stage 3A and Stage 3B. Stage 3A construction consisted of the following:

- Completion of the South and Main Embankments to El. 942.5 m from Chainage 6+50 to 9+50 and from Chainage 15+00 to 28+00.
- Upstream Zone CS placement to El. 942.5 m from Chainage 32+00 to 44+50.
- Downstream Zone F, T and C placement to El. 942.5 m from Chainage 28+00 to 32+00.
- Zone S placement to approximate El. 941.3 m from Chainage 28+00 to 44+50.

Stage 3B construction consisted of the following:

- Downstream Zone C placement to minimum El. 937 m from Chainage 32+00 to 39+00 and from Chainage 40+00 to 44+50.
- Downstream Zone T placement to El. 942.5 m from Chainage 32+00 to 39+00 and from Chainage 40+00 to 44+75.
- Downstream Zone F placement to El. 942.5 m from Chainage 32+00 to 44+75.
- Zone S placement to El. 942.5 m from Chainage 28+00 to 44+75.

The continuity of Zones C and T is interrupted between Chainages 39+00 and 40+00 by the Stage 2C downstream cycloned sand trial berm. The berm was covered with Zone F to minimize the potential for erosion of the fine grained cycloned sand. This area of the Perimeter Embankment is shown on Section 1 on Drawing 11162-13-125.

Knight Piésold Ltd. provided construction supervision and technical direction of the work under the management and administration of MPMC. The earthworks were completed by MPMC, Tercon Contracting Limited (TCL) of Kamloops, Lake Excavating Limited (LEL) of Williams Lake and 153 Mile Contracting Limited (153 Mile) of Williams Lake.

2.2 SCOPE OF WORK

2.2.1 General

The Stage 3 construction program comprised work on the following main areas:

- Investigations
- Tailings Embankments
- Basin Liner
- Tailings Discharge System
- Instrumentation

A description of each of the main components of the Stage 3 construction program is presented in the following sub-sections.

2.2.2 Investigations

Materials investigations were completed in 2000 and 2001 to support construction and design of the Tailings Storage Facility. Borrow Areas 2 and 3, located downstream of the Main Embankment left (east) abutment and Borrow Area 5, upstream of the South Embankment, were investigated to determine the availability and suitability of Zone S material. A total of

80 boreholes (DH01-01 to 80) were drilled in April, 2001. The results of the borrow area investigations are presented in Appendix A.

2.2.3 Tailings Embankments

The Stage 3 construction program included raising the Main, Perimeter and South Embankments to El. 942.5 m. The Stage 3 Main Embankment is approximately 1,300 metres long, with a maximum height of about 32 metres. The Stage 3 Perimeter Embankment is approximately 1,700 metres long, with a maximum height of about 15 metres. The South Embankment is approximately 300 metres long, with a maximum height of about 3 metres.

The scope of work for construction of the embankments included the following:

- Survey control of embankment construction.
- Foundation preparation to ensure a tie-in with competent natural ground.
- Placement and compaction of the fill materials in their respective zones in accordance with the Technical Specifications.
- Evaluation of embankment materials through detailed lab testing. The material testing was completed in the site soils laboratory and at an independent laboratory.

As-built construction details for the embankments are shown on the drawings included with this report.

2.2.4 Basin Liner

The basin liner was expanded at the right (southwest) abutment of the Main Embankment, as shown on Drawing No. 11162-13-130. This was completed during Stage 3A construction and the basin liner was subsequently buried by tailings in early 2001. Details of this fill placement is presented in Section 2.5.7

2.2.5 Tailings Discharge System

The scope of work for the tailings discharge system during Stage 3 construction included upstream cycloned sand placement between Chainage 32+00 and 44+50 at the Perimeter Embankment. In addition, the pipeline and discharge locations were relocated periodically in order to minimize interference with embankment construction.

2.2.6 Instrumentation

Groundwater monitoring wells GW00-01, 02 and 03 were installed downstream of the South Embankment in the summer of 2000 to monitor ground water flows in this area. Locations of the groundwater monitoring wells are shown on Drawing 11162-13-254, while borehole logs are presented in Appendix A.

Slope Inclinometers SI01-01 and 02 were installed at the downstream toe of the Main Embankment in July of 2001 to monitor any movements in the foundation below the embankment. Locations of the slope inclinometers are shown on Drawing 11162-13-250 and drill hole logs are presented in Appendix A.

A total of seven (7) vibrating wire piezometers were installed during Stage 3 construction to monitor pore pressures in the foundation and the performance of the Zone F filter. The locations of the installed piezometers are shown on Drawings 11162-13-250, 251 and 254 and on Table 2.2.

Six survey monuments were installed on the Main and Perimeter Embankments to monitor any settlement that occurs on the embankments. Drawings 11162-250 and 251 show the as constructed locations of the survey monuments.

2.3 CONSTRUCTION SEQUENCE AND RESPONSIBILITIES

Construction of the Stage 3A embankment raise commenced in April 2000 and was completed in March 2001. MPMC was responsible for:

- Foundation preparation at the Perimeter Embankment from Chainage 28+00 to 32+00.
- Fill surface preparation at the Perimeter Embankment from Chainage 28+00 to 44+50.
- A portion of borrow area development.
- Cycloned sand placement.
- Relocation of tailings pipelines and appurtenances.
- Fill placement of Zones F, C and T from Chainage 28+00 to 32+00 and fill placement of Zone S from Chainage 28+00 to 44+50.

TCL was responsible for:

- Foundation preparation at the Main and South Embankments.
- Fill surface preparation at the Main and South Embankments.
- A portion of borrow area development.
- Fill placement at the Main and South Embankments.

The work began with the placement of cyclone underflow (Zone CS) upstream of the Main and Perimeter Embankment crests. The Basin Liner was constructed in August 2000 and TCL carried out the work on the Main and South Embankment through to the end of September. Work at the site then ceased during October and MPMC commenced embankment fill placement in November 2000. This portion of fill placement was finished by the end of March 2001.

Construction of the Stage 3B embankment raise was carried out on the Perimeter Embankment, commencing in May 2001 and completed at the end of August 2001. MPMC was responsible for:

- Fill surface preparation at the Perimeter Embankment.

- Borrow area development.
- Relocation of tailings pipelines and appurtenances.
- Fill placement of Zones C and T.
- A portion of Zone S fill placement.
- A portion of Zone F fill placement.

LEL was responsible for:

- A portion of Zone S fill placement.
- A portion of Zone F fill placement.

153 Mile was responsible for:

- A portion of Zone F fill placement.

2.4 CONSTRUCTION SUPERVISION AND QUALITY ASSURANCE

Knight Piésold Ltd. provided construction quality assurance and control (QA/QC) services and QC lab testing for Stage 3 construction of the Tailings Storage Facility. MTS Testing Services Ltd., of Prince George, British Columbia carried out lab testing for the borrow area investigation in 2001. Key items addressed by Knight Piésold Ltd. included:

- Foundation inspection and approval prior to fill placement.
- Assessment of borrow material suitability.
- Inspection of fill placement procedures.
- In-situ testing of the placed and compacted fill for moisture content and density.
- Collection and testing of control and record samples at the required frequencies.
- Installation and monitoring of instrumentation.

The QA/QC procedures were similar to previous construction programs. During placement of fill materials, Control (prior to placement) and Record (after compaction)

samples of the materials were collected for laboratory testing. Control testing was typically carried out on materials in borrow pits or from source locations to determine their suitability for use in the work. Record testing was typically performed on materials after placement and compaction to document the level of workmanship achieved and to ensure that the design objectives were met.

Both Control and Record testing were used as a basis for modifying the construction procedures as and when necessary. Estimated quantities are also summarized on Table 2.1 with the Control and Record testing requirements and frequencies. Control test results are summarized in Appendix B. Record test results are discussed throughout this report and are summarized in Figures 2.1 to 2.17 and tabulated in Appendix C.

A minor portion of the work was completed in winter and required intensive monitoring. However, the work was carried out at all times in accordance with the Technical Specifications, as described in the "Tender Documents for Stage 3 Tailings Facility Construction, Ref. No. 11162/13-2", April 14, 2000. The QA/QC program confirmed this compliance with the Technical Specifications and the field and laboratory test results indicate that the design objectives were achieved, as discussed in Section 2.5.

2.5 EARTHWORKS

2.5.1 General

Stripping and preparatory work was completed on all foundation and abutment areas to ensure that a good tie-in was achieved with the natural ground and with the Stage 2C embankment. Organic debris and topsoil were removed according to the Technical Specifications. Foundation approval was required by the Engineer prior to the placement of any fill material.

Earthworks for the Stage 3 Tailings Storage Facility construction comprised the following zones and materials:

- Zone S - fine grained glacial till.
- Zone CS - cycloned sand.
- Zone F - processed gravel and sand filter.
- Zone T - select rockfill transition zone.
- Zone C - rockfill zone.
- Basin Liner - fine grained glacial till.

The gradation requirements for the fill materials are shown on Drawing 11162-13-104. Results of these, together with density, moisture content and other tests, are discussed in the following sections.

2.5.2 Zone S

Zone S forms the low permeability core and seal zones for the Main, Perimeter and South Embankments. The material used in Zone S was fine grained glacial till from Borrow Area No. 2, which is located downstream of the left (East) abutment of the Main Embankment.

The Specification for Zone S material required placement and compaction in maximum 300 mm thick horizontal lifts. The compaction specification was 95 percent of the Standard Proctor maximum dry density.

Record tests on the compacted Zone S fill included the following:

- Moisture Content (ASTM D2216)
- Particle Size Distribution (ASTM D422)
- Laboratory Compaction (ASTM D698)
- Specific Gravity (ASTM D854)
- Atterberg Limits (ASTM D4318)
- Field Density by Nuclear Methods (ASTM D2922)
- Field Moisture Content by Nuclear Methods (ASTM D3017)

A total of nine(9) complete Record Tests of Zone S material were made. An additional 379 field density and moisture content tests were made by the nuclear densometer.

The particle size analyses showed that the Zone S glacial till is a well-graded sandy silt with some clay and gravel. All of the test results were within the specified limits for the material. The gradation curves of the Zone S Record Tests are shown on Figure 2.1.

Atterberg limits testing was carried out on five samples. The plastic limits of these samples ranged from 13.4 to 14, with a median of 13.7. The liquid limits ranged from 22.5 to 24.5, with a median of 24.4. The plasticity index ranged from 8.8 to 10.8, with a median of 10.0. The material is classified as CL in the Unified Soil Classification System (inorganic clay of low to medium plasticity).

The median field moisture content as measured with the nuclear densometer was 10.2 percent, while the median optimum moisture content was 8.8 percent. The median deviation from the optimum moisture content was 1.7 percent wet of optimum. Material too wet for direct placement in the Zone S fill was avoided in the borrow areas.

The median field dry density, as measured with the nuclear densometer, was 2109 kg/m³, while the median Standard Proctor maximum dry density was 2115 kg/m³. Percent compaction values for all nine Record Tests ranged from 98 percent to 105 percent. The median percent compaction from the nuclear densometer tests was 99.1 percent. These results indicate that the compaction specification of 95 percent was achieved. Each lift of Zone S was tested prior to the placement of the next lift. If any test failed to meet the compaction requirements, the area in question was re-compacted until the minimum compaction requirements were met. Of the 379 nuclear densometer tests, only one failed the compaction requirement. The material in this area was allowed to remain in place based on visual inspections carried out by the Engineer.

Histograms were generated to illustrate the results of the field density and moisture content testing. The histograms in Figures 2.2 to 2.4 present the field moisture content, Standard Proctor optimum moisture content and deviation from optimum for the Zone S Record samples, while Figures 2.5 to 2.7 show the measured field dry density, the Standard Proctor maximum dry density and the corresponding percent compaction. Figures 2.8 to 2.11 display the results of 379 field density and moisture content tests conducted in Zone S with the nuclear densometer during Stage 3 construction.

Specific gravity was determined for five samples. The median result was 2.62, which is consistent with values measured on similar materials during previous construction programs.

2.5.3 Zone CS

Zone CS consists of cycloned tailings sand which was placed in the upstream zone of the Perimeter Embankment by mechanical methods. The material was spread in horizontal lifts up to 1000 mm thick and then compacted with a 10-ton vibratory roller augmented with truck traffic. KP field personnel were on site during the compaction of the final lift only. The compaction of the first lift was carried out while KP field personnel were not on site.

Record tests on Zone CS consisted of:

- Particle Size Distribution (ASTM D422)
- Field Density by Nuclear Methods (ASTM D2922)
- Moisture Content by Nuclear Methods (ASTM D3017)

A total of five (5) particle size distribution tests were made on Zone CS material. An additional 19 field density and moisture content tests were carried out with the nuclear densometer on the final lift of the material.

The particle size analyses showed that Zone CS is a uniform silty sand. All of the test results were within the specified limits for the material. The gradation curves are shown on Figure 2.12.

The median field moisture content, as measured with the nuclear densometer, was 4.8 percent and the range of moisture contents was from 3.8 to 6.2 percent. The material was placed and shaped in the fall of 2000 and the spring of 2001 and the final lift was not compacted and tested until July 2001. As a result, the moisture contents reported here are lower than freshly placed materials.

The median field dry density of the Zone CS material, as measured with the nuclear densometer, was 1611 kg/m³.

Histograms illustrating the results from the 19 nuclear densometer field moisture content and field density tests were generated. These are shown on Figures 2.13 and 2.14.

2.5.4 Zone F

Zone F forms the filter zone immediately downstream of Zone S on the Main and Perimeter Embankments. The material used in Zone F was mine waste rock which was crushed at the millsite.

The Specification for Zone F called for placement and compaction in maximum 600 mm thick horizontal lifts. However, due to difficulties experienced in placing these lifts on the sloping downstream surface of Zone S (see Drawing 11162-13-125), the specification was modified in the field to allow for placement in a 1000 mm thick lift on the slope. The Zone F fill placement was carefully monitored to ensure that segregation did not occur. Compaction was achieved with a 10 ton vibratory smooth drum roller running up and down the slope.

Record tests on Zone F consisted of:

- Particle Size Distribution (ASTM D422)
- Moisture Content (ASTM D2216)

A total of forty two (42) particle size distribution tests were completed on Zone F. These tests showed that Zone F consists of a well-graded gravel and sand. Thirteen of the Zone F test results fell outside of the specified coarse limit for particle sizes smaller than 5 mm. However, in a check with the particle sizes in Zone S, an adequate filter relationship between Zone S and Zone F was confirmed and the material was allowed to remain in place. Gradation curves are shown on Figure 2.15.

Twelve Zone F samples were tested for moisture content. The median field moisture content, as measured in the laboratory, was 4.5 percent and the range of moisture contents was from 2.3 percent to 8.4 percent.

2.5.5 Zone T

Zone T is a transition zone immediately downstream of Zone F in the Main and Perimeter Embankments. The material used in Zone T was select rockfill which was quarried from the Rock Borrow.

The Specification for Zone T required placement and compaction in maximum 600 mm thick horizontal lifts. However, for reasons similar to Zone F, the specification was modified in the field to allow for placement in a 1000 mm thick lift on the sloping face of the embankment. Fill placement was carefully monitored to ensure that segregation did not occur. Compaction was achieved with a 10 tonne vibratory smooth drum roller on the slope.

Record tests on Zone T consisted of:

- Particle Size Distribution (ASTM D422)
- Moisture Content (ASTM D2216)

A total of eighteen (18) Zone T samples were tested for particle size distribution. These tests showed that Zone T consists of a well-graded gravel with some cobbles and trace sand. Gradation curves are shown on Figure 2.16. One of the Zone T record test results fell slightly outside of the specified coarse limit for particle sizes greater than 100 mm. This will not affect the behavior of Zone T and the material was left in place.

Seven Zone T samples were tested for moisture content. The median field moisture content, as measured in the laboratory, was 3.6 percent and the range of moisture contents was from 1.4 percent to 4.4 percent.

2.5.6 Zone C

Zone C is a rockfill zone immediately downstream of Zone T in the Main and Perimeter Embankments. The material used in Zone C was rockfill which was quarried from the Rock Borrow.

The Specification for Zone C called for placement and compaction in maximum 1000 mm thick horizontal lifts. This was followed and compaction was achieved with a 10 ton vibratory smooth drum roller augmented with 85 tonne haul trucks.

Record tests on Zone C consisted of Particle Size Distribution (ASTM D422). A total of five(5) Record Tests were completed on Zone C. The results showed that Zone C is a well graded cobbly gravel with trace boulders and sand. All of the test results were within the specified limits for Zone C. Gradation curves are shown on Figure 2.17.

2.5.7 Basin Liner

The Basin Liner was constructed out of locally borrowed glacial till placed in three 150 mm thick lifts to a total thickness of 450 mm. The material in each lift was compacted to a dry density of greater than 92 percent of the Standard

Proctor maximum dry density. A 300 mm thick layer of till, nominally compacted, was then placed over the liner as frost protection.

No laboratory testwork was conducted on the Basin Liner material. The material quality and lift and compaction control was made by thorough and continuous visual inspections during construction.

2.6 EMBANKMENT DRAIN SYSTEMS

Foundation Drain FD-5 was extended to the right abutment of the Main Embankment in order to control a small groundwater seep observed in the area and to provide a conduit for local runoff. The as-built location of the drain extension is presented on Drawing 11162-13-250.

2.7 TAILINGS DISCHARGE SYSTEM

The tailings discharge system includes a single HDPE pipeline approximately 7,000 metres in length from the Millsite to the left (west) abutment of the Perimeter Embankment. Downstream of this, the system included pipework to route the tailings through cyclones for Zone CS construction, or to a number of discharge points on the embankment crest.

Construction activities related to the tailings discharge system included the following:

- Operation of Krebs 20" cyclones at the embankment crest and in Borrow Area No. 4 to supply material for Zone CS at the Perimeter Embankment.
- Discharge of tailings from various points around the perimeter of the facility to establish beaches.

2.8 INSTRUMENTATION AND MONITORING

2.8.1 General

Construction activities related to instrumentation and monitoring systems included installing the following:

- Vibrating wire piezometers
- Groundwater monitoring wells
- Slope inclinometers
- Survey monuments

Details of these installations are presented in the following sub-sections.

2.8.2 Vibrating Wire Piezometers

A total of seven(7) vibrating wire piezometers were installed during Stage 3 construction, as summarized below and on Table 2.3. Details of the as-built piezometer locations are shown on Drawings 11162-13-250, 251, 254, 258 and 259 with instrumentation details shown on Drawing 11162-13-256.

Three(3) piezometers were installed in the foundation under the Zone C buttress (one each at Planes A, B and C) to monitor pore pressures in the foundation.

One(1) piezometer was installed in the foundation under the South Embankment (Plane F) to monitor pore pressures in the foundation.

Three(3) piezometers were installed in the Zone F (one each at Planes D, G and H) to monitor the performance of the filter.

No unexpected or anomalous pore pressures were observed while monitoring these or the previously installed vibrating wire piezometers during construction. Some of the piezometers in the Zone S fill responded to the

increased load from the additional material placed on the embankments. However, the increases did not result in any delays in construction.

The pore pressures in the tailings reflected the pond level. A total of 59 vibrating wire piezometers have been installed at the Tailings Storage Facility. Of these, 53 remain in operation. The results of all piezometer monitoring are discussed in detail in the KP document "Report on 2000 and 2001 Annual Inspection", (Ref. No. 11162/14-2, October 3, 2001) and in the site progress reports.

2.8.3 Groundwater Monitoring Wells

Three(3) groundwater monitoring wells were installed downstream of the South Embankment during Stage 3 construction to monitor groundwater quality and water levels to the South of the Tailings Storage Facility. The borehole logs and installation details are presented in Appendix A. The as-built locations are shown on Drawing 11162-13-254 and are also provided on Table 2.2.

MPMC staff measure the piezometric levels within the wells and collect samples for water quality testing. The results of the water quality monitoring have been reported by MPMC in the report "2000 Annual Environmental Report, Effluent permit 11678". This report has been submitted to the appropriate agencies (Ministry of Environment, Lands and Parks and Ministry of Energy, Mines and Northern Development).

2.8.4 Slope Inclinometers

Two(2) slope inclinometers were installed immediately downstream of the Stage 3 Main Embankment to monitor any movements within the foundation materials. The borehole logs and installation details are presented in Appendix A. The as-built locations are shown on Drawing 11162-13-250 and are also presented on Table 2.2.

KP engineering staff monitored the slope inclinometers five times in August, 2001. This initial monitoring creates an average base file, to which all subsequent monitoring is compared. The first readings of these inclinometers are scheduled for November, 2001.

2.8.5 Survey Monuments

Six(6) survey monuments were installed on the crests of the Main and Perimeter Embankments to monitor any future settlements of the crest. The as-built locations are shown on Drawings 11162-13-250, 251 and 254 and are tabulated on Table 2.2. The installation details are presented on Drawing 11162-13-256.

2.9 DESIGN MODIFICATIONS

Knight Piésold Ltd. employs a strict procedure for making design modifications (changes or substitutions) in the field. All design change requests are submitted in writing by the Resident Engineer to the Knight Piésold Ltd. Vancouver Office for review and evaluation. If approved by the Project Principal, the design change request is forwarded to the Owner and Contractor in a formal, written decision.

Some modifications to the design and Technical Specifications were implemented during the Stage 3 construction program in order to adapt to site conditions. All modifications were approved on a technical basis by Knight Piésold Ltd. and on a permitting basis by the appropriate regulatory agencies. All modifications were also accepted and approved by Mount Polley Mining Corporation prior to their implementation.

The documentation associated with design modifications for Stage 3 construction are presented in Appendix E. Some minor modifications were made during Stage 3 construction other than those included in Appendix E. These modifications will have no significant impact on the design and operation of the facility. These were treated as "field fit" solutions and were not required to go through the formal design modification process. Field fits and approved design changes are shown on the as-built drawings.

SECTION 3.0 - CONCLUSIONS AND RECOMMENDATIONS

Stage 3 of the Mount Polley Mine Tailings Storage Facility was split into Stages 3A and 3B and constructed between April 2000 and August 2001. The construction program included the completion of the Main, Perimeter and South Embankments to El. 942.5 m. Technical supervision of the work included QA/QC testing and monitoring of instrumentation. This confirmed that the work was completed and the facility was performing in accordance with the design objectives. A few minor deviations from the Technical Specifications were made in the Zones F and T fill, as described in the report. However, each such case was carefully evaluated and determined to have no adverse affect on the facility.

An updated operating performance review has been made of the Tailings Storage Facility and it is presented in a separate document entitled "Report on 2000 and 2001 Annual Inspection" (Ref. No. 11162/14-2, October 3, 2001). From this, Knight Piésold Ltd. recommends that the pond level in the Tailings Storage Facility be closely monitored to ensure that the water level does not encroach on the required freeboard of the Stage 3 embankments. The reclaim barge and reclaim line should also be closely monitored to ensure that they remain in good working order.

SECTION 4.0 - REFERENCES

A complete listing of all Knight Piésold Ltd. reports prepared for the Mount Polley Mine Project is shown below. These reports are available for review.

- 1) Imperial Metals Corp. Mt. Polley Project, Report on Geotechnical Investigations and Design of Open Pit, Waste Dumps and Tailings Storage Facility, Ref. No. 1621/1, February 19, 1990.
- 2) Imperial Metals Corp. Mt. Polley Project, Report on Project Water Management, Ref. No. 1624/1, February 6, 1995.
- 3) Imperial Metals Corp. Mt. Polley Project, Report on 1995 Geotechnical Investigations for Mill Site and Tailings Storage Facility, Ref. No. 1623/1, March 14, 1995.
- 4) Imperial Metals Corp. Mt. Polley Project, Tailings Storage Facility and Ancillary Works, Part 10 - Technical Specifications, Ref. No. 1625/3, March 25, 1995.
- 5) Imperial Metals Corp. Mt. Polley Project, Tailings Access Road and Tailings/Reclaim Pipelines, Part 6 - Technical Specifications, Ref. No. 1625/4, May 17, 1995.
- 6) Imperial Metals Corp. Mt. Polley Project, Manual on Sampling and Handling Guidelines for Determination of Groundwater Quality, Ref. No. 1625/5, May 19, 1995.
- 7) Imperial Metals Corp. Mt. Polley Project, Tailings Storage Facility, Design Report, Ref. No. 1625/1, May 26, 1995.
- 8) Imperial Metals Corp. Mt. Polley Project, Tailings Storage Facility, Site Inspection Manual, Ref. No. 1625/2, May 26, 1995.

- 9) Imperial Metals Corp. Mt. Polley Project, Response to Review Comments on Tailings Embankment Design, Ref. No. 1625/6, January 25, 1996.
- 10) Imperial Metals Corp. Mt. Polley Project, Groundwater Monitoring Program, Ref. No. 1624/2, June 3, 1996.
- 11) Imperial Metals Corp. Mt. Polley Project, Report on Geotechnical Investigations and Design of Open Pits and Waste Dumps, Ref. No. 1628/1, July 5, 1996.
- 12) Imperial Metals Corp. Mt. Polley Project, Response to Review Comments on Groundwater Monitoring Program, Ref. No. 1625/7, September 12, 1996.
- 13) Imperial Metals Corp. Mt. Polley Project, Requirements and Specifications for the 1996 Groundwater Monitoring Program, Ref. No. 1625/8, September 12, 1996.
- 14) Imperial Metals Corp. Mt. Polley Project, Specification for Drilling, Monitoring Well Installations and Related Services, Ref. No. 1628/3, September 18, 1996.
- 15) Mount Polley Mining Corporation, Mount Polley Project, 1996 Groundwater Monitoring Well Installation Program, Ref. No. 1628/4, February 17, 1997.
- 16) Mount Polley Mining Corporation, Mount Polley Project, Polley Lake Pumping System, Ref. No. 1628/5, February 19, 1997.
- 17) Mount Polley Mining Corporation, Mount Polley Project, Tailings Storage Facility, Operation, Maintenance and Surveillance Manual for Stage Ia Embankment (El. 927 m), Ref. No. 1627/1, March 11, 1997.
- 18) Mount Polley Mining Corporation, Mount Polley Project, Tailings Storage Facility and Ancillary Features, May 1, 1997 Site Inspection, Ref. No. 1627/4, June 3, 1997.

- 19) Mount Polley Mining Corporation, Mount Polley Project, Tailings Storage Facility, Updated Design Report, Ref. No. 1627/2, June 4, 1997.
- 20) Mount Polley Mining Corporation, Mount Polley Project, Tailings Storage Facility, Operation, Maintenance and Surveillance Manual for Stage Ib Embankment (El. 934 m), Ref. No. 10162/7-3, June 18, 1997.
- 21) Mount Polley Mining Corporation, Mount Polley Mine, Tailings Storage Facility and Ancillary Features, May 1, 1997 Site Inspection, Ref. No. 10162/7-4, June 3, 1997.
- 22) Mount Polley Mining Corporation, Mount Polley Mine, Report on Stage Ia/Ib Construction, Ref. No. 10162/7-5, August 14, 1997.
- 23) Mount Polley Mining Corporation, Mount Polley Mine, Tender Documents for Stage 2A Tailings Facility Construction, Ref. No. 10162/9-1, October 9, 1997.
- 24) Mount Polley Mining Corporation, Mount Polley Mine, Stage 2A Tailings Facility Construction, Selected Excerpts from Reference Information, Ref. No. 10162/9-2, November 11, 1997.
- 25) Mount Polley Mining Corporation, Mount Polley Mine, Report on On-going Construction Requirements, Ref. No. 10162/9-3, January 29, 1998.
- 26) Mount Polley Mining Corporation, Mount Polley Mine, Contract Documents for Stage 2A Tailings Facility Construction, Ref. No. 10162/9-4, June 26, 1998.
- 27) Mount Polley Mining Corporation, Mount Polley Mine, 1998 Annual Inspection Report, Ref. No. 10162/9-5, June 26, 1998.
- 28) Mount Polley Mining Corporation, Mount Polley Mine, 1998 Construction and Annual Inspection, Ref. No. 11162/10-1, June 16, 1999.

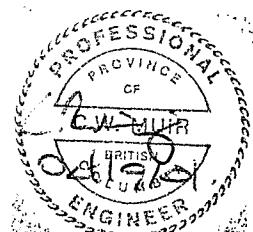
- 29) Mount Polley Mining Corporation, Mount Polley Mine, Report on Cycloned Sand Construction of Stage 3 and On-going Stages of the Tailings Storage Facility, Ref. No. 11162/12-2, December 13, 1999.
- 30) Mount Polley Mining Corporation, Mount Polley Mine, Project Procedures Manual for Stage 2C and 3 TSF (Ref. No. 11162/13-1, Rev. 0), March 15, 2000
- 31) Mount Polley Mining Corporation, Mount Polley Mine, Contract Documents for Construction of Stage 3 TSF (Ref. No. 11162/13-2, Rev. 2), June 8, 2000
- 32) Mount Polley Mining Corporation, Mount Polley Mine, Operation, Surveillance and Maintenance Manual for Stage 3 (El. 944) Embankment (Ref. No. 11162/13-3, Rev. A) DRAFT, August 17, 2000
- 33) Mount Polley Mining Corporation, Mount Polley Mine, Addendum to Report on Cycloned Sand Construction of Stage 3 and On-going Stages of the TSF (Ref. No. 11162/13-4, Rev. 0), May 11, 2000
- 34) Mount Polley Mining Corporation, Mount Polley Mine, Report on 1999 Construction (Ref. No. 11162/13-5, Rev. 0), August 30, 2000
- 35) Mount Polley Mining Corporation, Mount Polley Mine, Stage 3 TSF Selected Excerpts from Reference Information (Ref. No. 11162/13-6, Rev. 0), April 20, 2000
- 36) Mount Polley Mining Corporation, Mount Polley Mine, Site Inspection Manual for Stage 3 Construction of the Main and South Embankments (Ref. No. 11162/13-7, Rev. 0), June 23, 2000
- 37) Mount Polley Mining Corporation, Mount Polley Mine, TSF Rock Borrow Bench Stability Assessment (Ref. No. 11162/13-8, Rev. A), August 18, 2000

- 38) Mount Polley Mining Corporation, Mount Polley Mine, Report on 1999 Annual Inspection (Ref. No. 11162/13-9, Rev. 0), October 16, 2000

- 39) Mount Polley Mining Corporation, Mount Polley Mine, Report on 2000 and 2001 Annual Inspection (Ref. No. 11162/14-2, Rev. 0), October 3, 2001

SECTION 5.0 - CERTIFICATION

This report was prepared and approved by the undersigned.



Prepared by:

C. Wilson Muir, P.Eng.
Project Engineer



Approved by:

Ken J. Brouwer, P.Eng.
President

This report was prepared by Knight Piésold Ltd. for the account of Mount Polley Mining Corporation. The material in it reflects Knight Piésold's best judgement in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Knight Piésold Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. This numbered report is a controlled document. Any reproductions of this report are uncontrolled and may not be the most recent revision.

TABLE 2.1

MOUNT POLLIE MINING CORPORATION
MOUNT POLLIE MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
TABLE OF QUANTITIES AND QA/QC TESTING FREQUENCIES

MAIL16214RReport3134b2.1.xls\$Schedule 50

Date Printed: 12-Oct-01

ZONE	Material	STAGE 3A QUANTITY ^[3] (m ³)	STAGE 3B QUANTITY ^[4] (m ³)												CONTROL TESTS												RECORD TESTS											
			C1 1 per No.	C2 1 per No.	C3 1 per No.	C4 1 per No.	C6 1 per No.	R1 1 per No.	R2 1 per No.	R3 1 per No.	R4 1 per No.	R7 1 per No.																										
Zone S		25,000	—	840	50	1,680	25	—	—	8,400	5	4,667	9	4,667	9	111	111	379																				
Glacial Till			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Basin Liner		3,000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Glacial Till			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Zone CS		—	9,000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Cycloned Sand			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Zone F ^[2]		24,000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Filter Sand			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Zone T ^[12]		51,000	—	26,000	—	—	77,000	1	77,000	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Select Rockfill			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Zone C ^[12]		366,000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Rockfill			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Totals		469,000	—	165,500	0	0	67	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Grand Totals			—	634,500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				

Notes:

- Zones T and C received from MPMC as one volume for Stage 3A construction. As a result, Zone T neat line design volume used for as-built volume.
- Zones F, T and C received from MPMC as one volume for Stage 3B construction. As a result, Zones F and T neat line design volumes to El. 945 used for as-built volume. El. 945 volume used due to visual evidence of overbuild during construction.
- Includes construction of Zones F, T and C at the Perimeter Embankment between Setting Out Points S5 and S6 to El. 942.5 m.
- Includes construction of Zone S at the Perimeter Embankment to El. 941.3 m, which was completed for Stage 3A Construction.

Control Tests:

- C1 Atterberg Limits (ASTM D4318)
- C2 Moisture Content (ASTM D2216)
- C3 Particle Size Distribution (ASTM D422)
- C4 Laboratory Compaction (ASTM D698)
- C6 Specific Gravity (ASTM C127)

Record Tests:

- R1 Atterberg Limits (ASTM D4318)
- R2 Moisture Content (ASTM D2216)
- R3 Particle Size Distribution (ASTM D422)
- R4 Laboratory Compaction (ASTM D698)
- R7 Density by Nuclear Methods (ASTM D2922)

TABLE 2.2

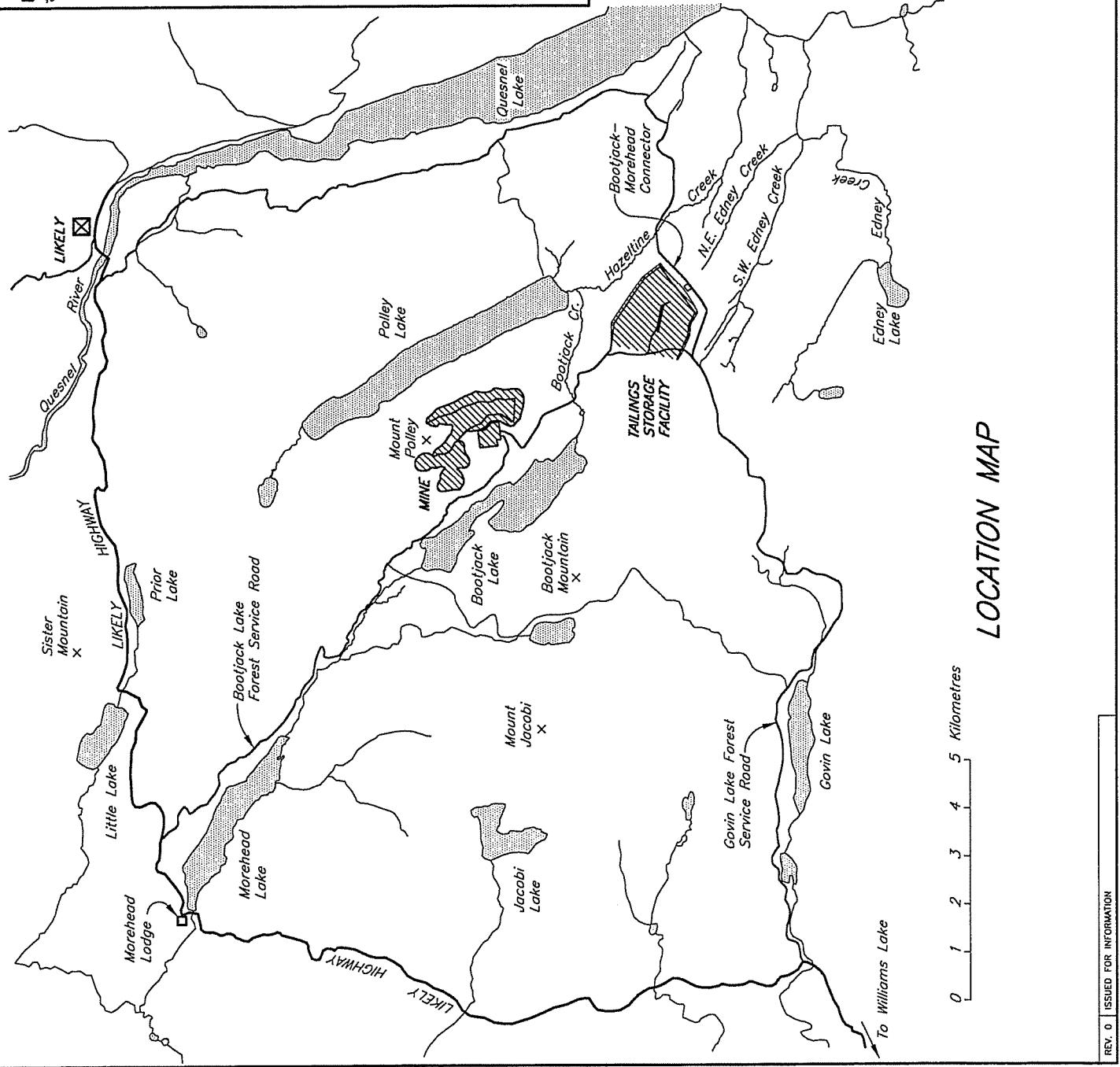
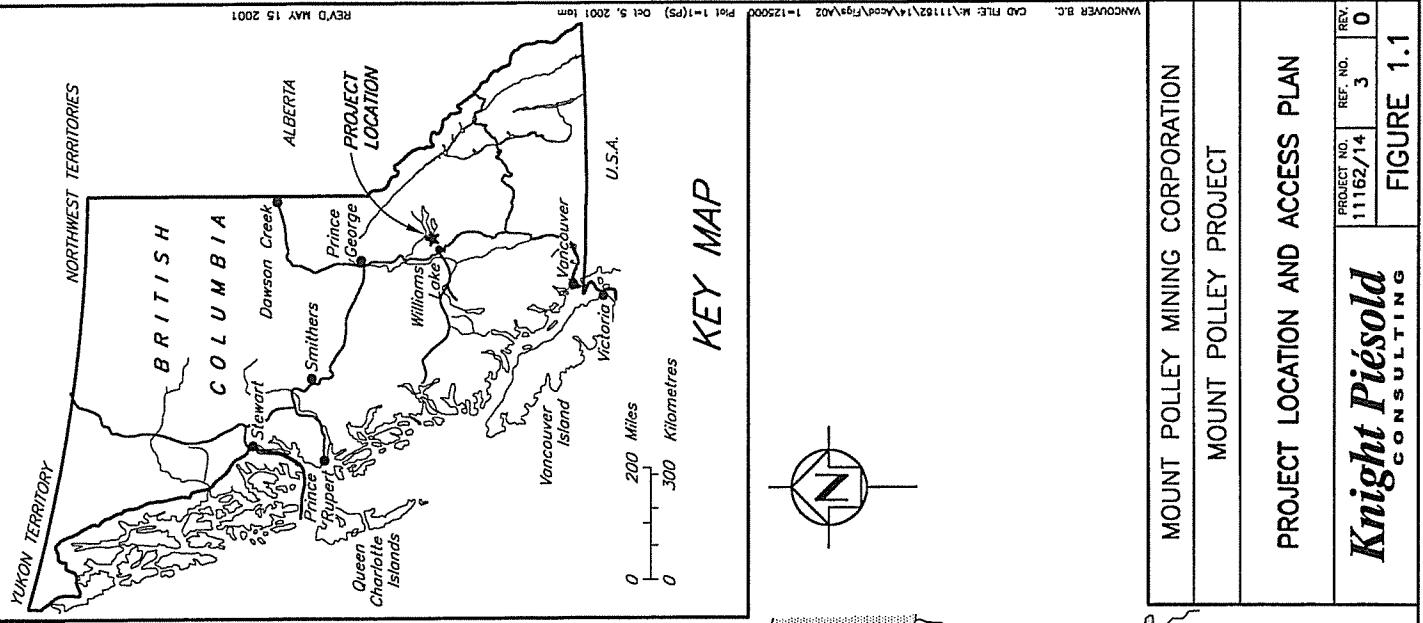
**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

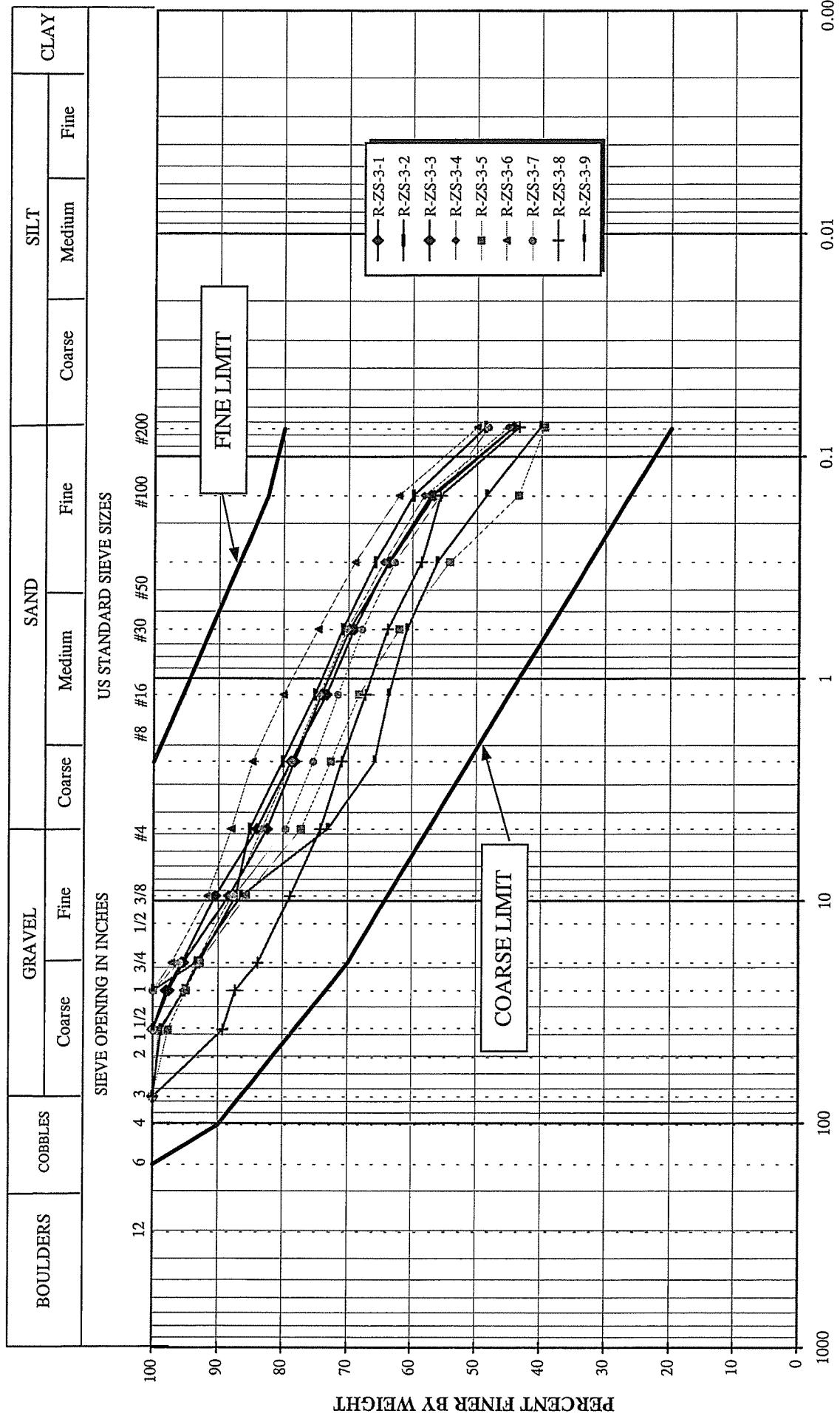
**TAILINGS STORAGE FACILITY
STAGE 3 INSTRUMENTATION INSTALLATION DATA**

M:\11162\14\Report\3\[3-tbl2-2.XLS]3 Installation Data_r0

Date Printed: 10-Oct-01
Date Rev'd: 10-Sep-01

Type	Identification Number	Serial Number	Tip El. (m)	Ground El. (m)	Zone Monitored	Co-ordinates	
						Northing	Easting
Piezometer	A2-PE1-03	69697	909.2	910.0	Foundation	5818423	595663
Piezometer	B2-PE1-03	69696	913.8	914.5	Foundation	5818573	595847
Piezometer	C2-PE1-03	69698	913.4	914.0	Foundation	5818237	595531
Piezometer	D1-PE1-03	50679	933.3	934.0	Zone F	5819775	595308
Piezometer	F2-PE2-01	53765	939.7	941.0	Foundation	Chainage 7+60	
Piezometer	G1-PE1-01	50678	933.2	934.0	Zone F	5819966	595013
Piezometer	H1-PE1-01	50681	936.8	937.5	Zone F	5819518	595668
Slope Inclinometer	SI-01-1	N/A	N/A	915.7	Foundation	5818464	595667
Slope Inclinometer	SI-01-2	N/A	N/A	917.3	Foundation	5818401	595589
Monitoring Well	GW00-01	N/A	N/A	939.2	Surficial and Bedrock Foundation	5818476	594368
Monitoring Well	GW00-02	N/A	N/A	943.4	Surficial and Bedrock Foundation	5818338	594652
Monitoring Well	GW00-03	N/A	N/A	943.1	Surficial and Bedrock Foundation	5818238	594896
Survey Monument	A2-SM-12	N/A	N/A	942.5	Embankment Fill, Plane A	5818492	595593
Survey Monument	B2-SM-13	N/A	N/A	942.5	Embankment Fill, Plane B	5818643	595794
Survey Monument	C2-SM-14	N/A	N/A	942.5	Embankment Fill, Plane C	5818398	595468
Survey Monument	D2-SM-15	N/A	N/A	942.4	Embankment Fill, Plane D	5819749	595300
Survey Monument	G2-SM-16	N/A	N/A	942.6	Embankment Fill, Plane G	5819922	595043
Survey Monument	H2-SM-17	N/A	N/A	942.3	Embankment Fill, Plane H	5819528	595629



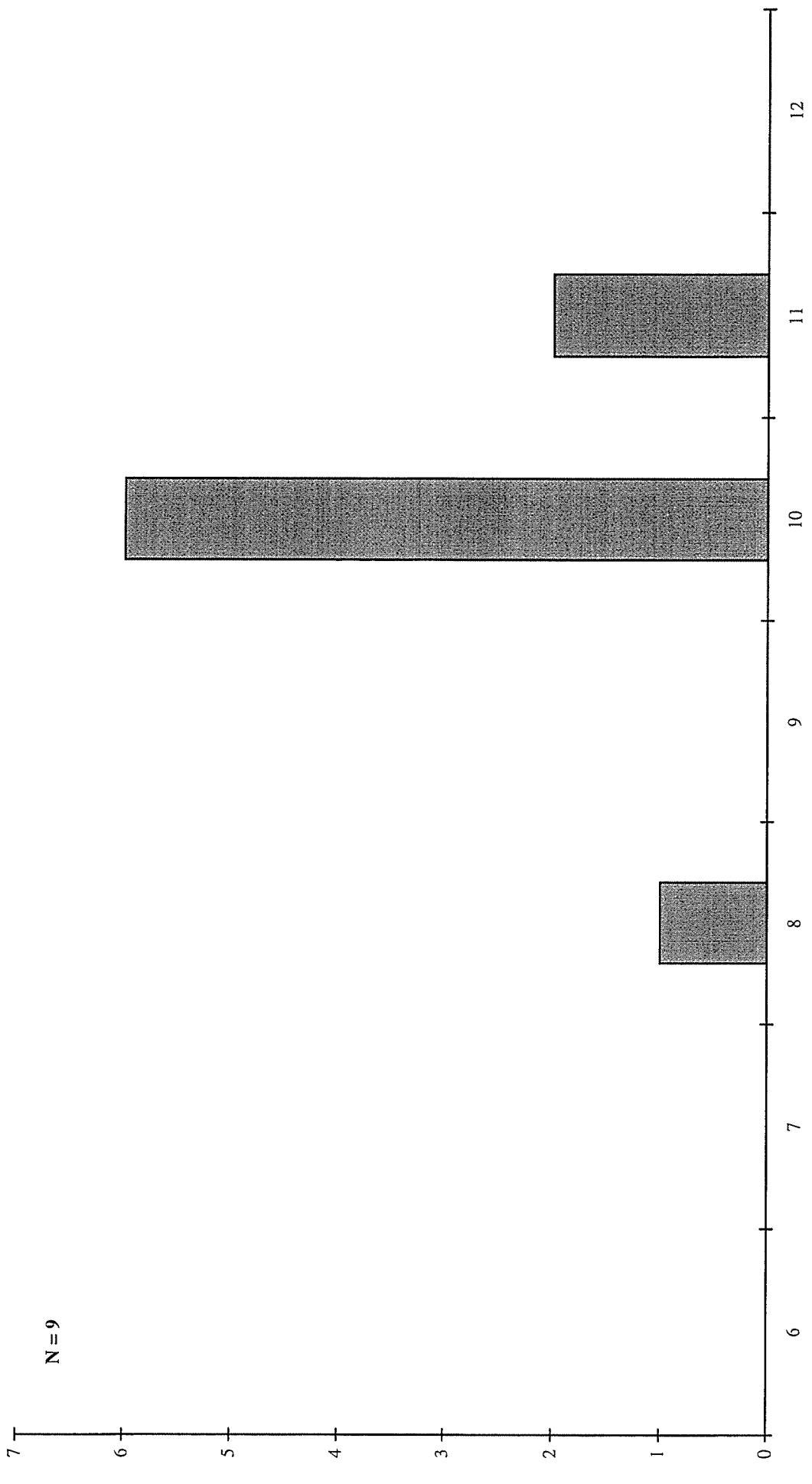


MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3		
CONSTRUCTION - ZONE S RECORD SAMPLES - GRADATION CURVES		
PROJECT NO.	REF. NO.	REV.
1116214	3	0

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CONSULTING

FIGURE 2.1

N = 9



FIELD MOISTURE CONTENT (%)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

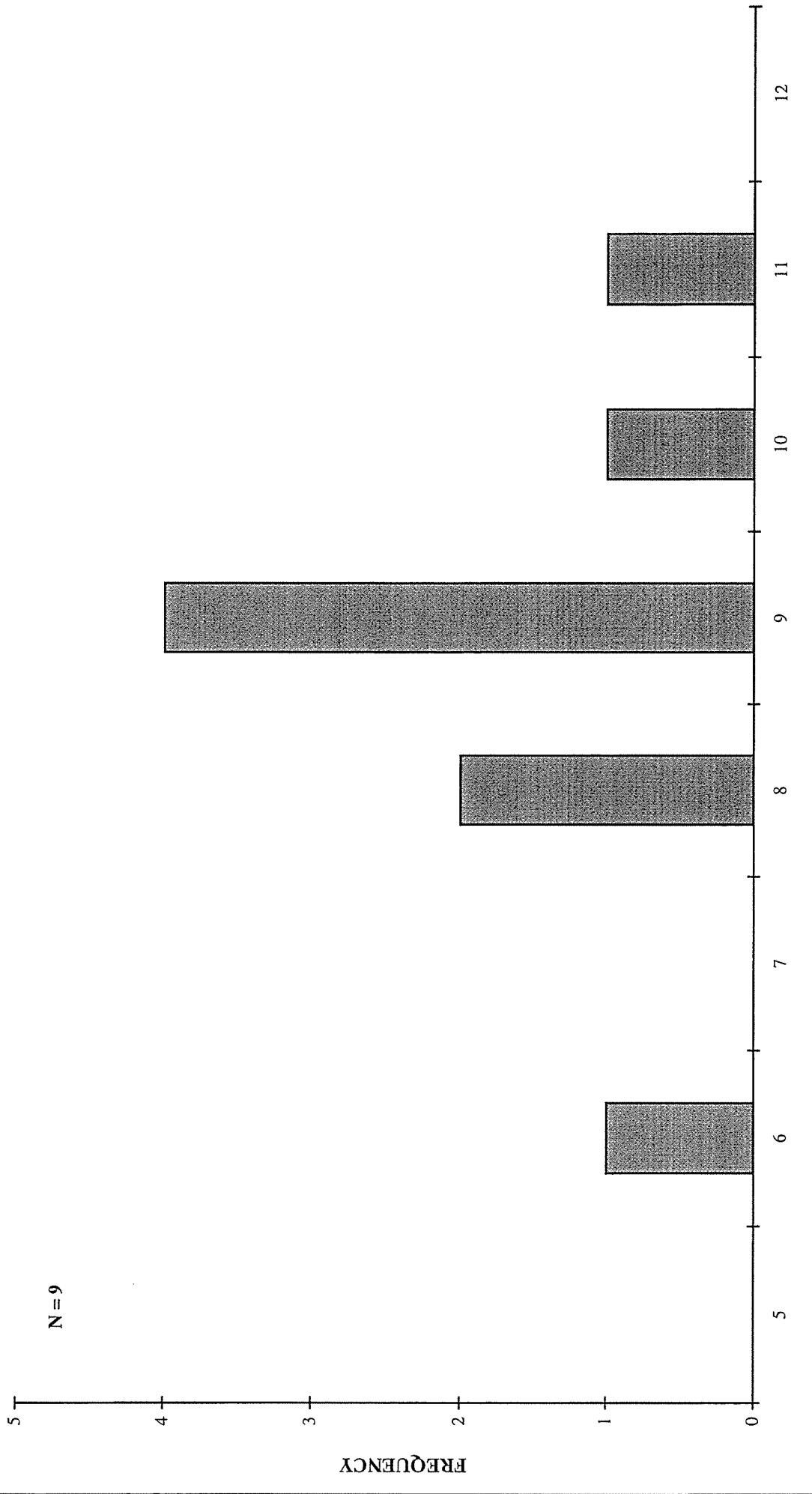
TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION - ZONE S RECORD
SAMPLES - FIELD MOISTURE CONTENT

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FIGURE 2.2

PROJECT	REF.	REV.
11162/14	3	0

N = 9



OPTIMUM MOISTURE CONTENT (%)

MOUNT POLLEY MINING CORPORATION

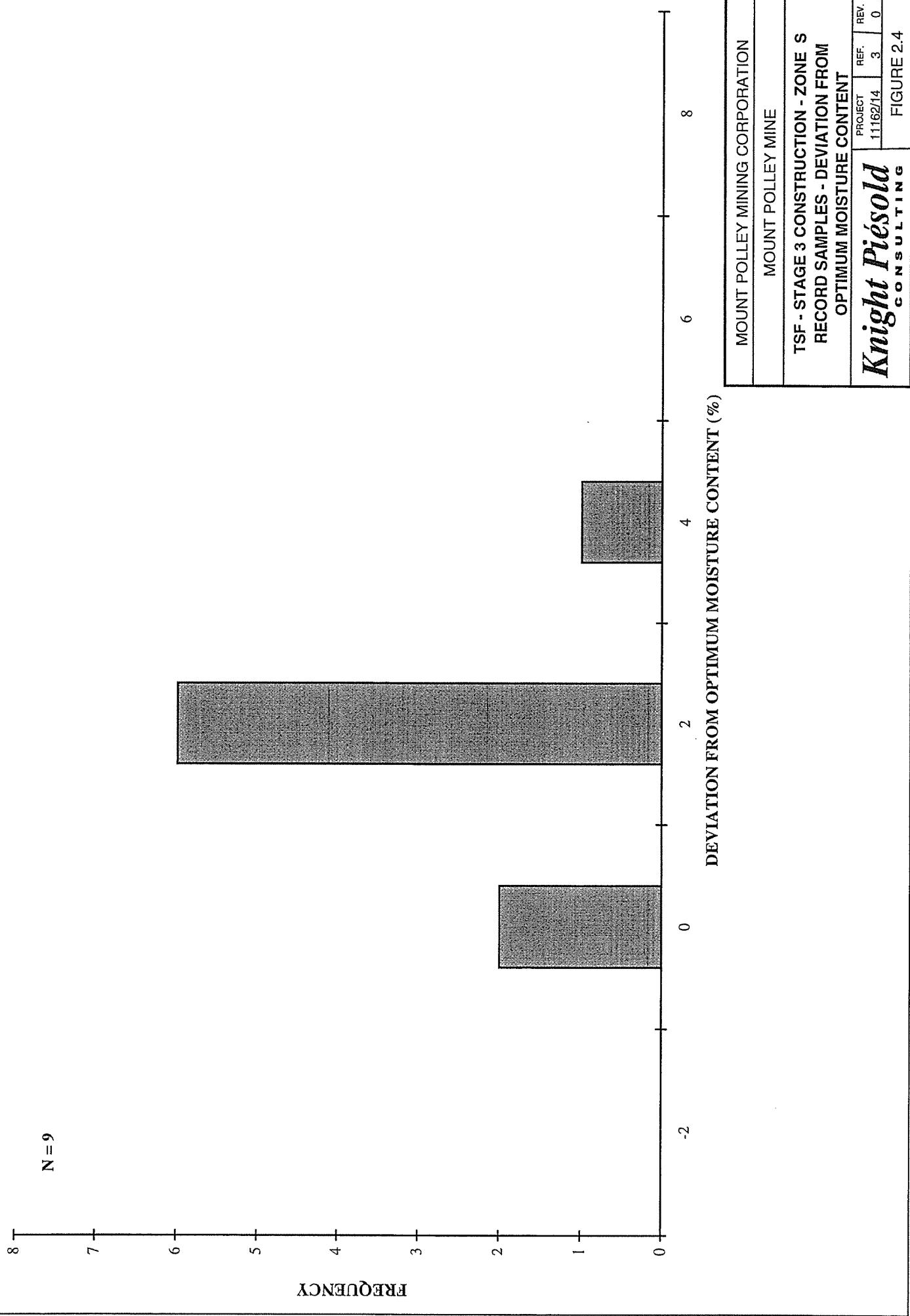
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION - ZONE S RECORD
SAMPLES - OPTIMUM MOISTURE CONTENT

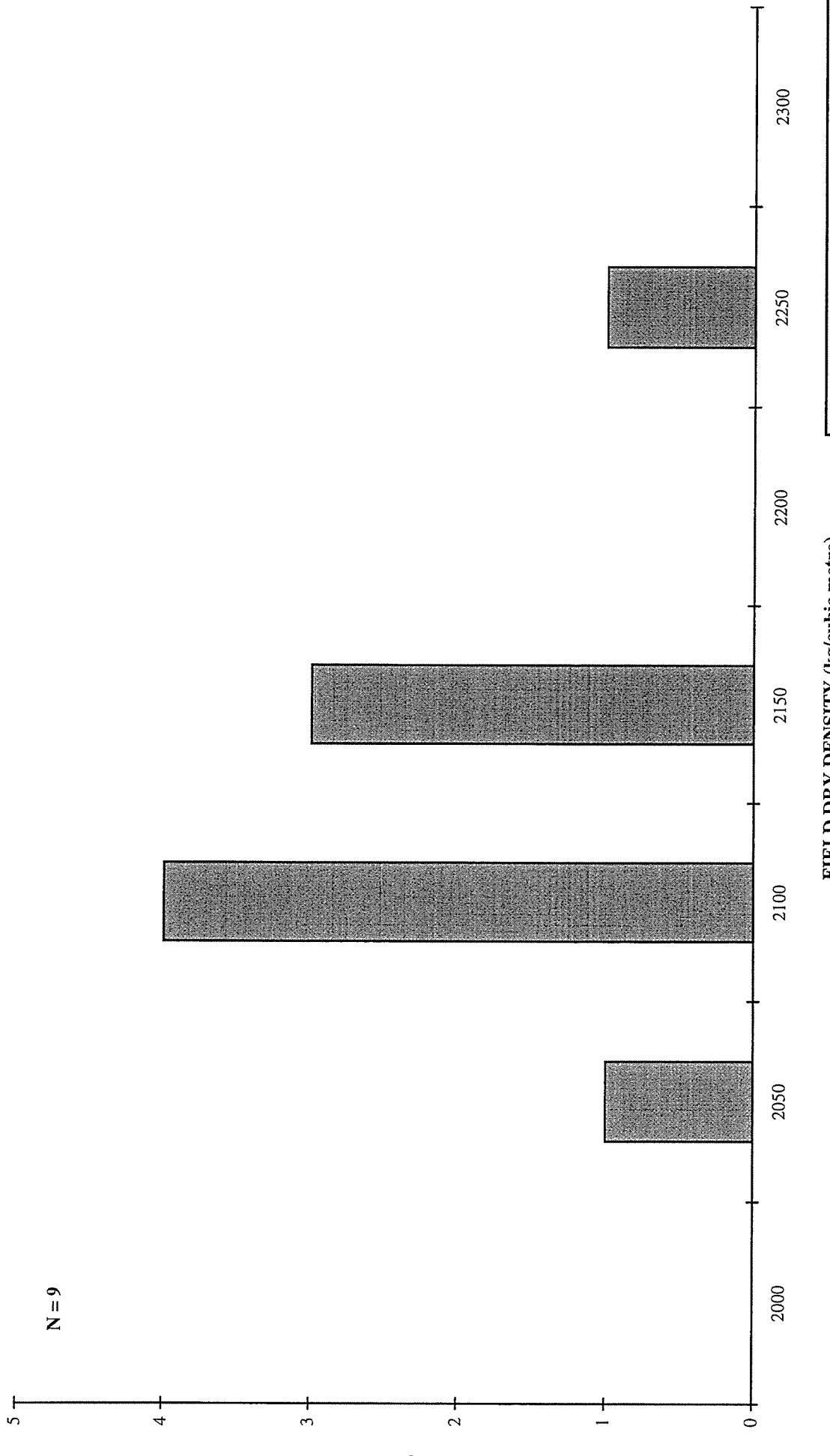
Knight Piésold
CONSULTING

FIGURE 2.3

PROJECT	REF.	REV.
11162/14	3	0



N = 9



FIELD DRY DENSITY (kg/cubic metre)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

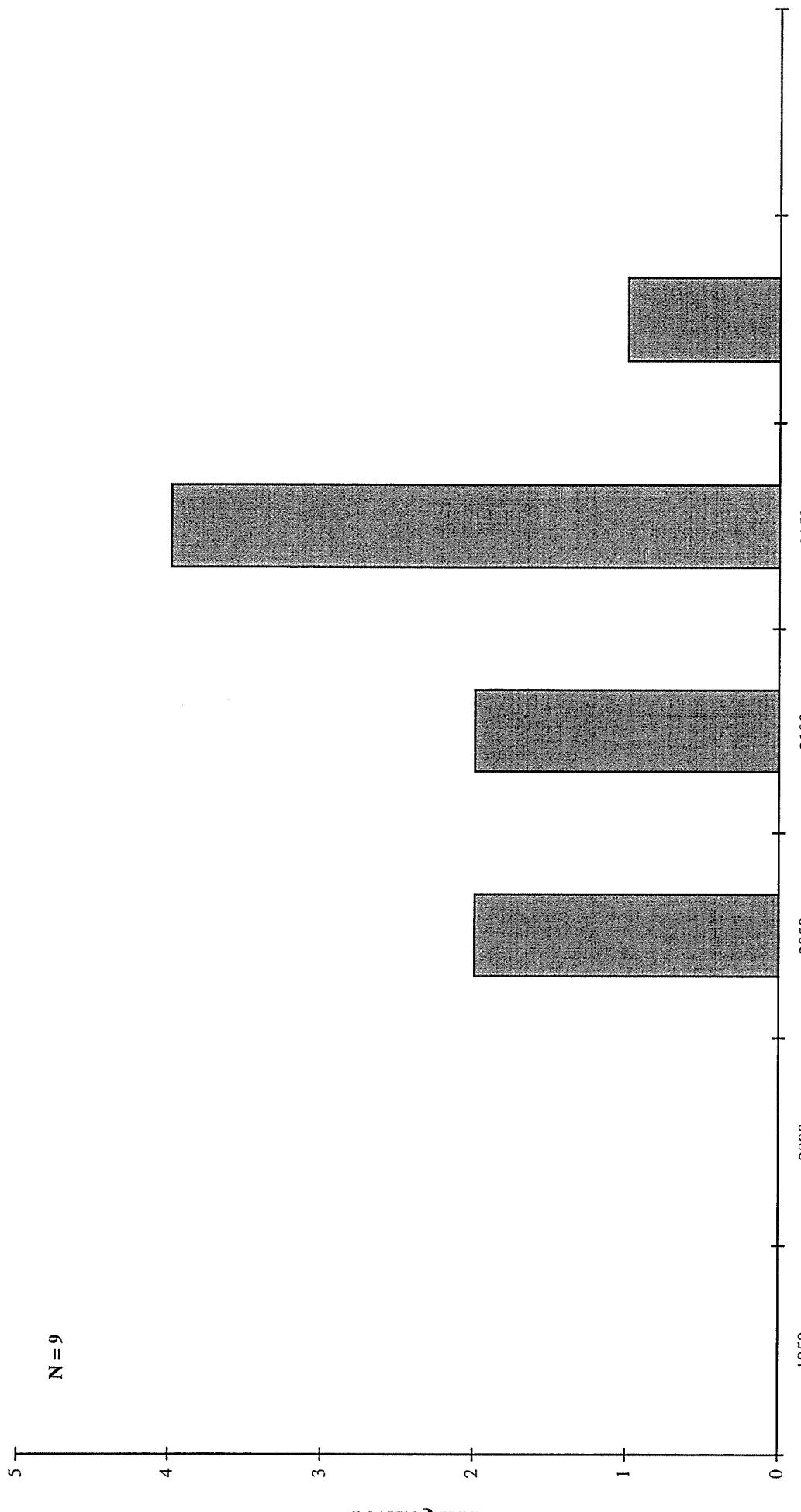
TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION - ZONE S RECORD
SAMPLES - FIELD DRY DENSITY

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CONSULTING

FIGURE 2.5

PROJECT REF. REV.
11162/14 3 0

N = 9



MAXIMUM DRY DENSITY (kg/cubic metre)

MOUNT POLLEY MINING CORPORATION

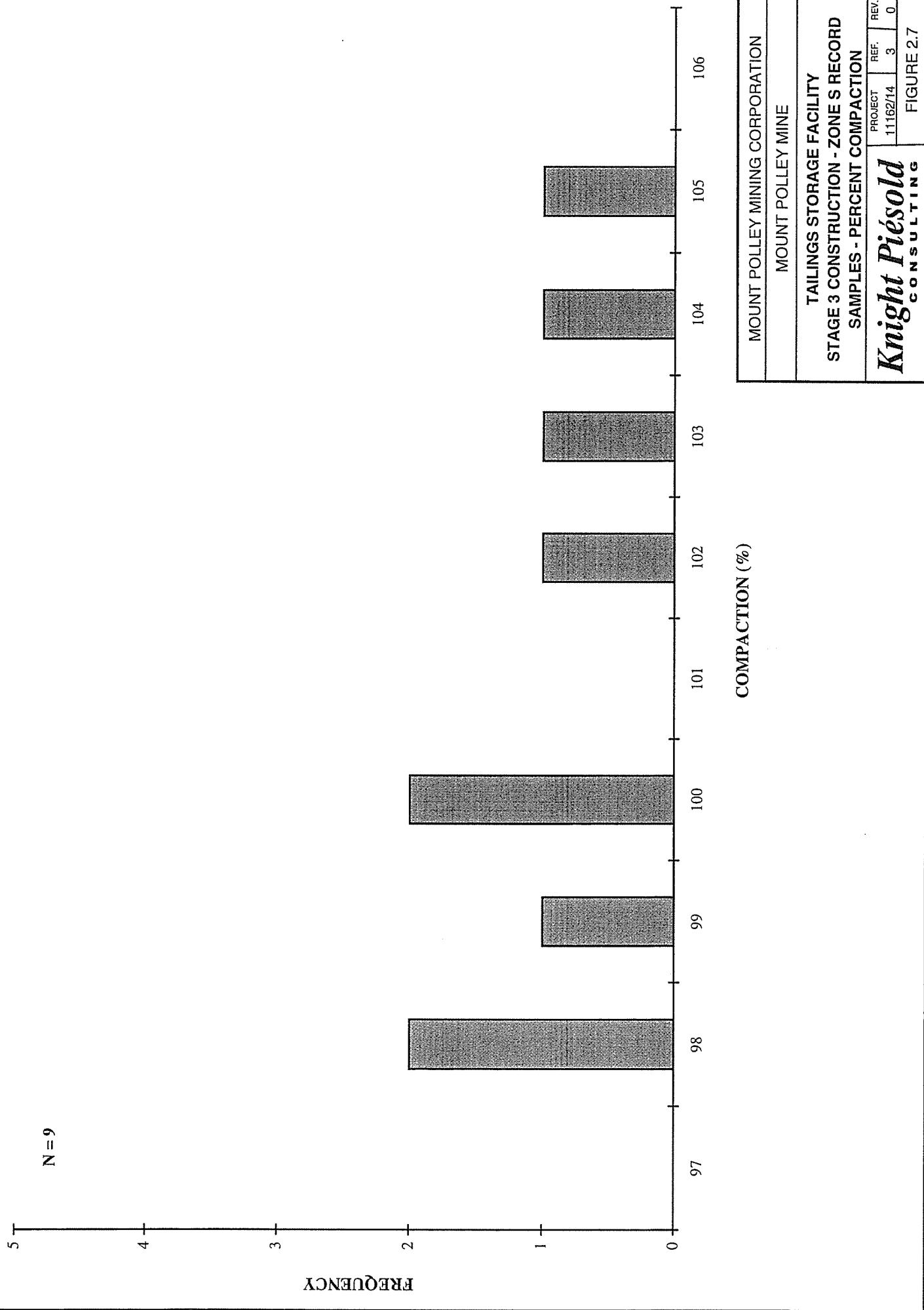
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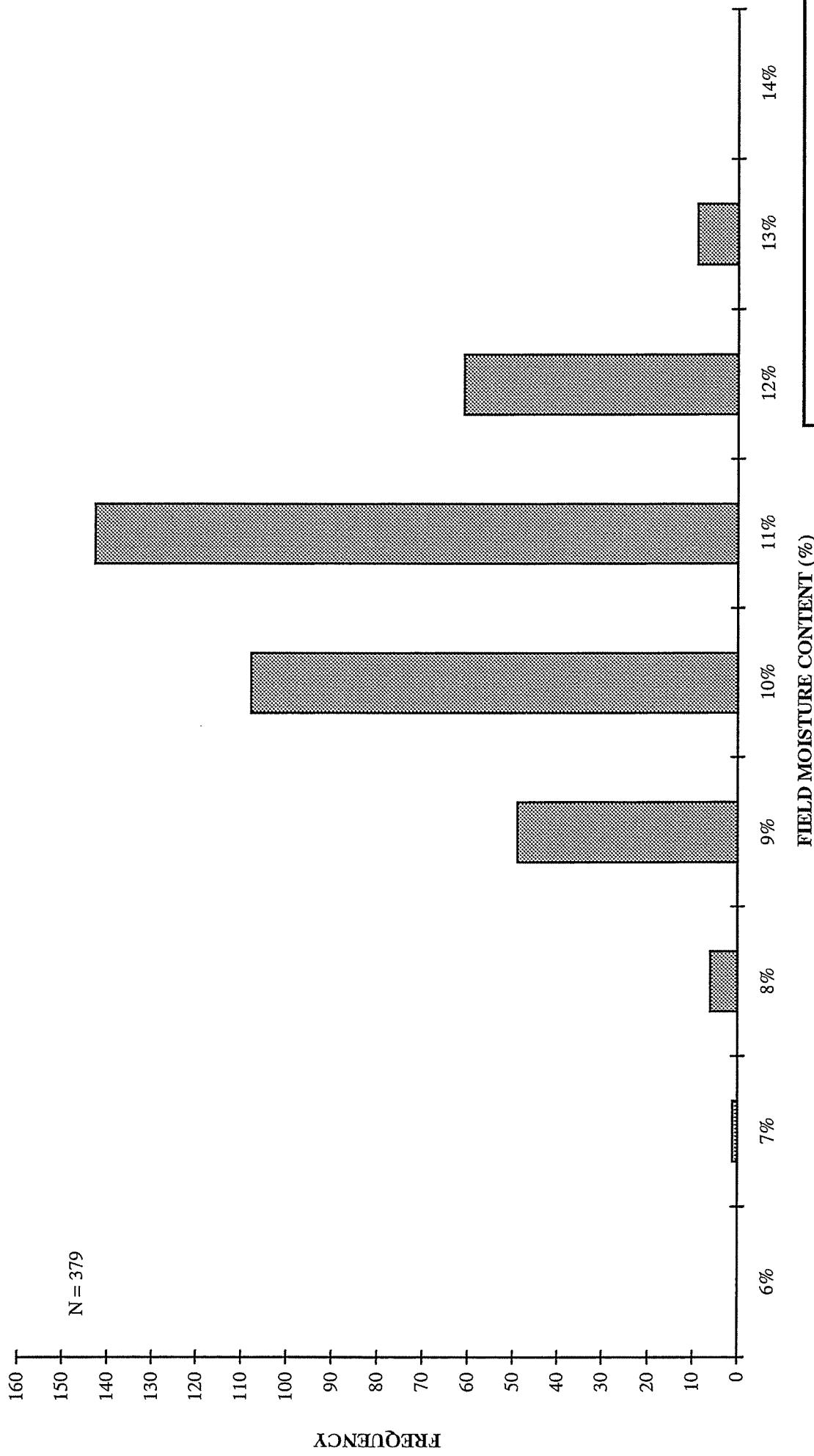
TAILINGS STORAGE FACILITY
STAGE 3 CONSTRUCTION - ZONE S RECORD
SAMPLES - MAXIMUM DRY DENSITY

Knight Piésold
CONSULTING

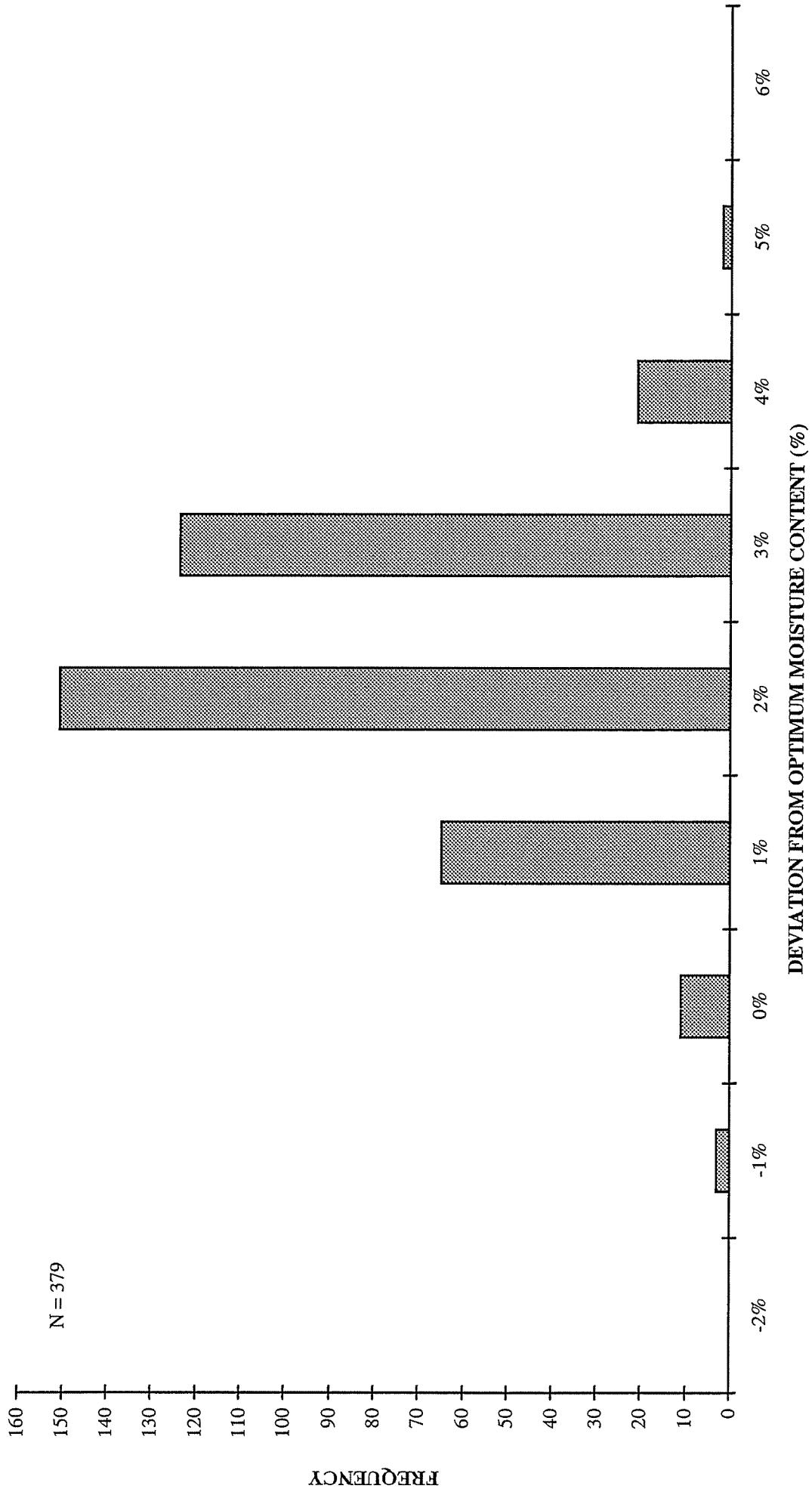
FIGURE 2.6

PROJECT	REF.	REV.
11162/14	3	0

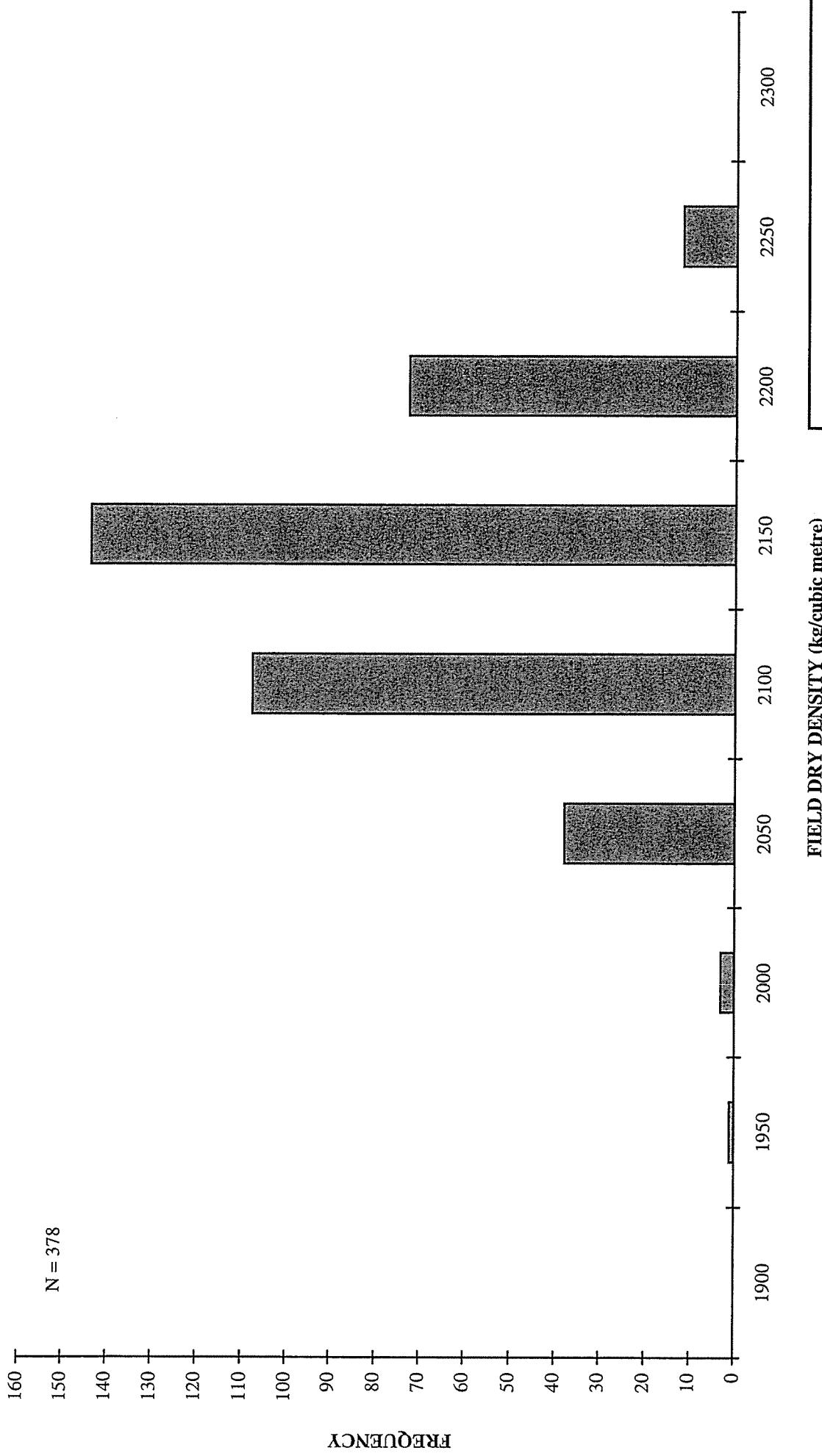




MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY - STAGE 3		
CONSTRUCTION - ZONE S - FIELD MOISTURE		
CONTENT - NUCLEAR DENSOMETER	PROJECT 1116214	REF. 3
Knight Piésold	REV. 0	
CONSULTING		
FIGURE 2.8		

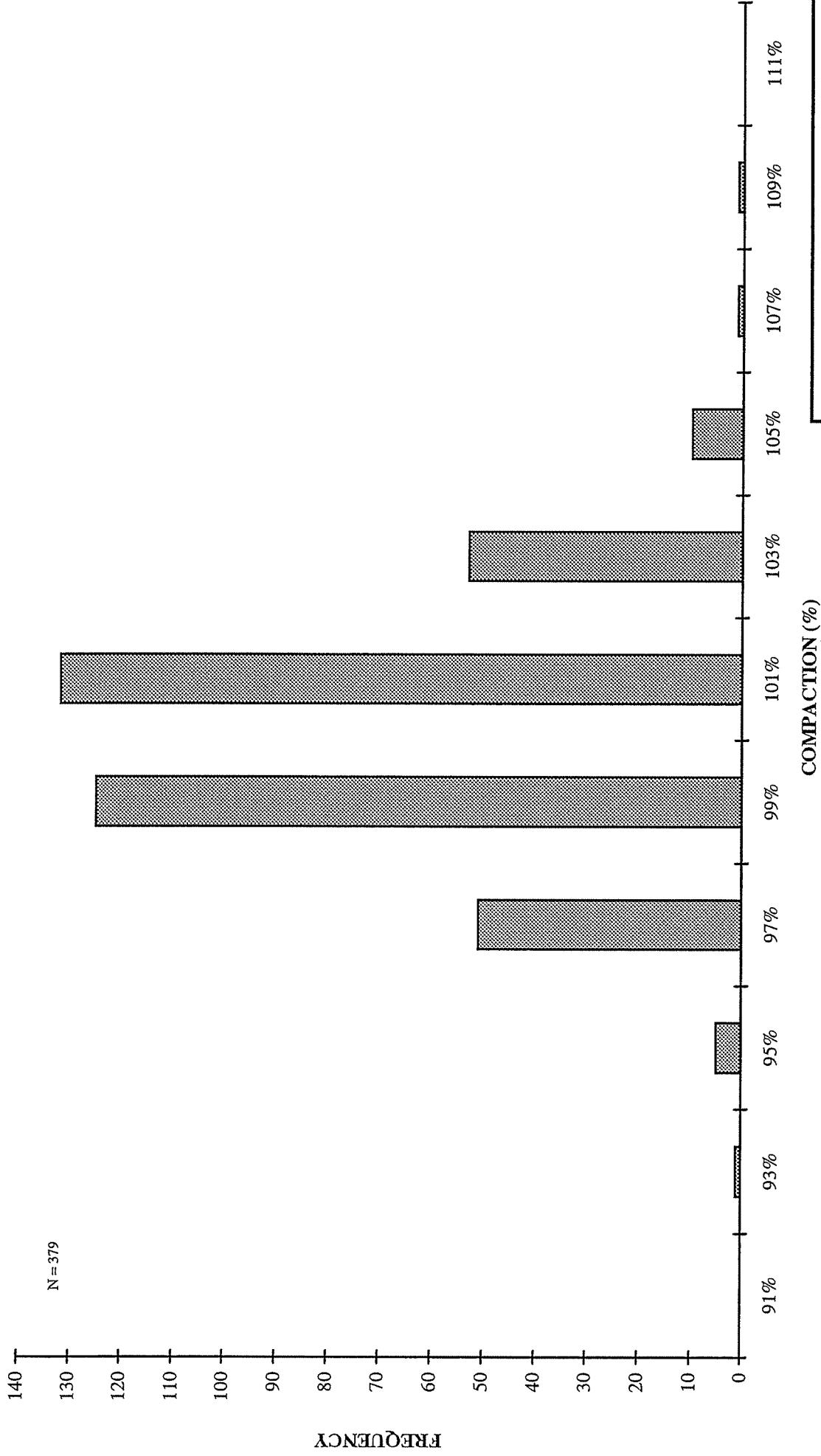


MOUNT POLLEY MINING CORPORATION	
MOUNT POLLEY MINE	
TSF - STAGE 3 CONSTRUCTION - ZONE S	
DEVIATION FROM OPTIMUM MOISTURE	
CONTENT - NUCLEAR DENSOMETER	
Knight Piésold	PROJECT 1116214
CONSULTING	REF. 3
	REV. 0
	FIGURE 2.9



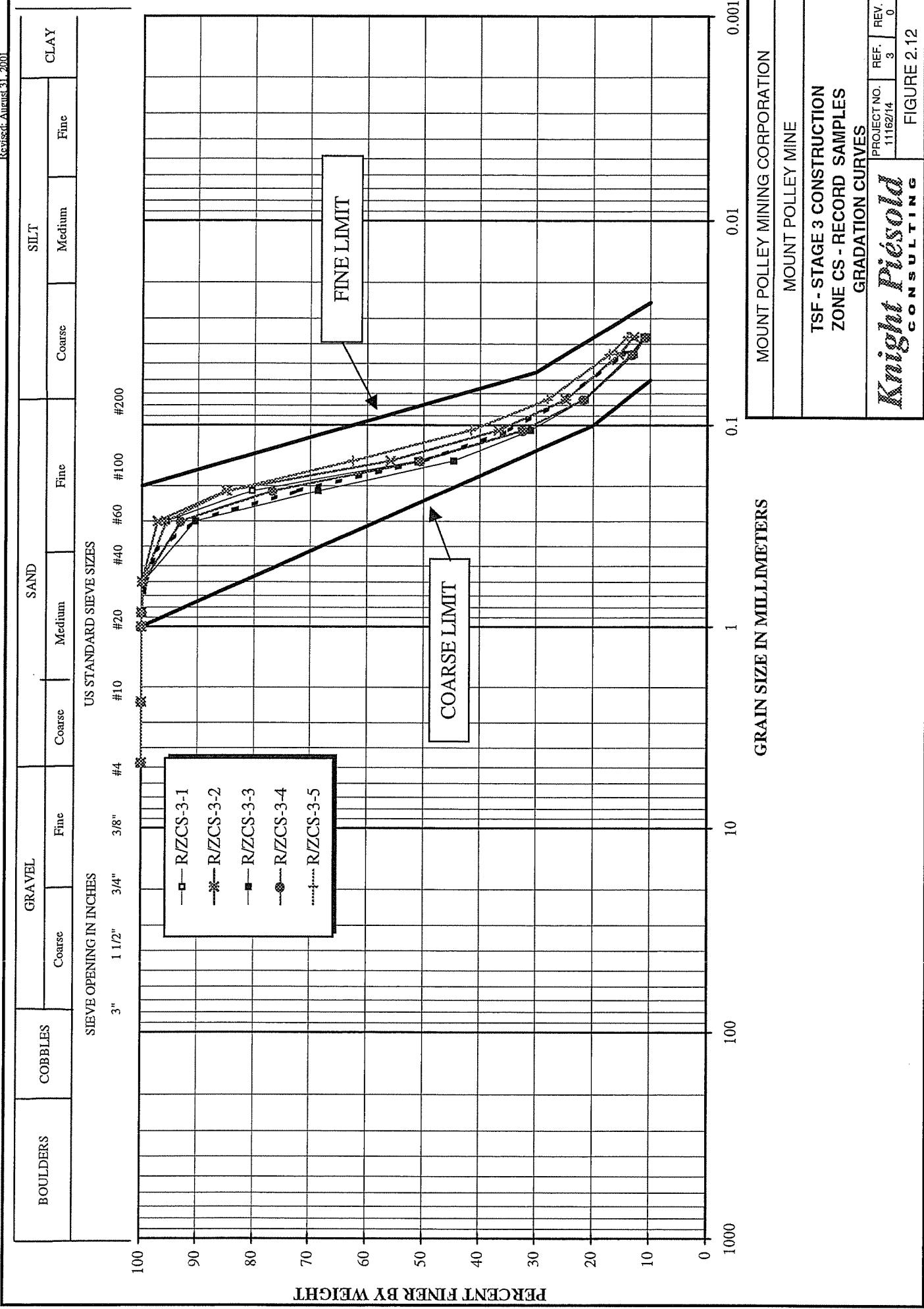
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY - STAGE 3
CONSTRUCTION - ZONE S - FIELD DRY
DENSITY - NUCLEAR DENSOMETER
Knight Piésold
CONSULTING FIGURE 2.10

PROJECT	REF.	REV.
11162\14	3	0

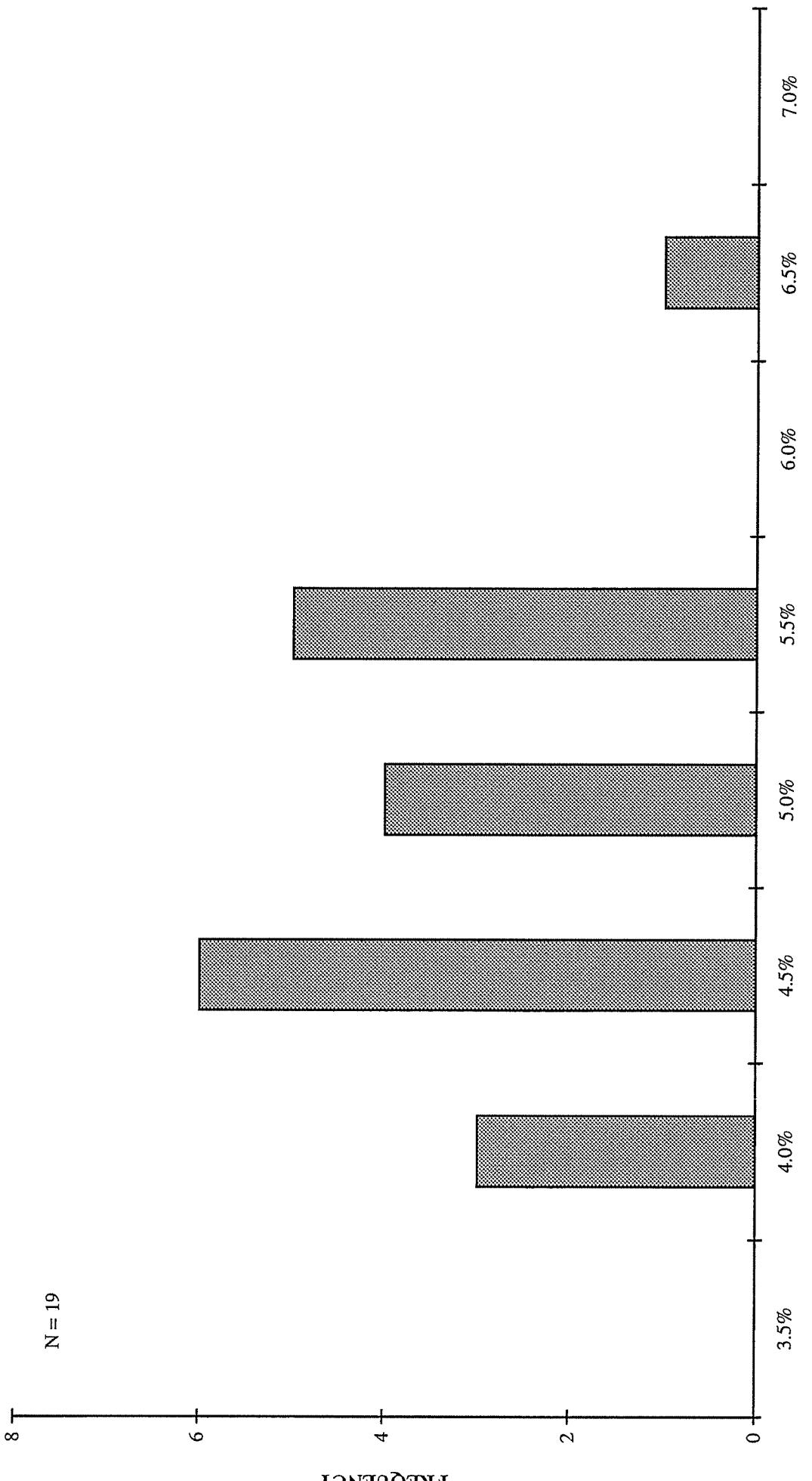


MOUNT POLLEY MINING CORPORATION	PROJECT	REF.	REV.
MOUNT POLLEY MINE	11162/14	3	0
TSF - STAGE 3 CONSTRUCTION - ZONE S			
PERCENT COMPACTION			
NUCLEAR DENSOMETER			
Knight Piésold			
CONSULTING			

FIGURE 2.11



N = 19



MOUNT POLLEY MINING CORPORATION			
TSF - STAGE 3 CONSTRUCTION - ZONE CS			
FIELD MOISTURE CONTENT			
NUCLEAR DENSOMETER			
Knight Piésold CONSULTING			
PROJECT 11162/14	REF. 3	REV. 0	FIGURE 2.13

N = 19



FIELD DRY DENSITY (kg/cubic metre)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TSF - STAGE 3 CONSTRUCTION - ZONE CS

FIELD DRY DENSITY

NUCLEAR DENSOMETER

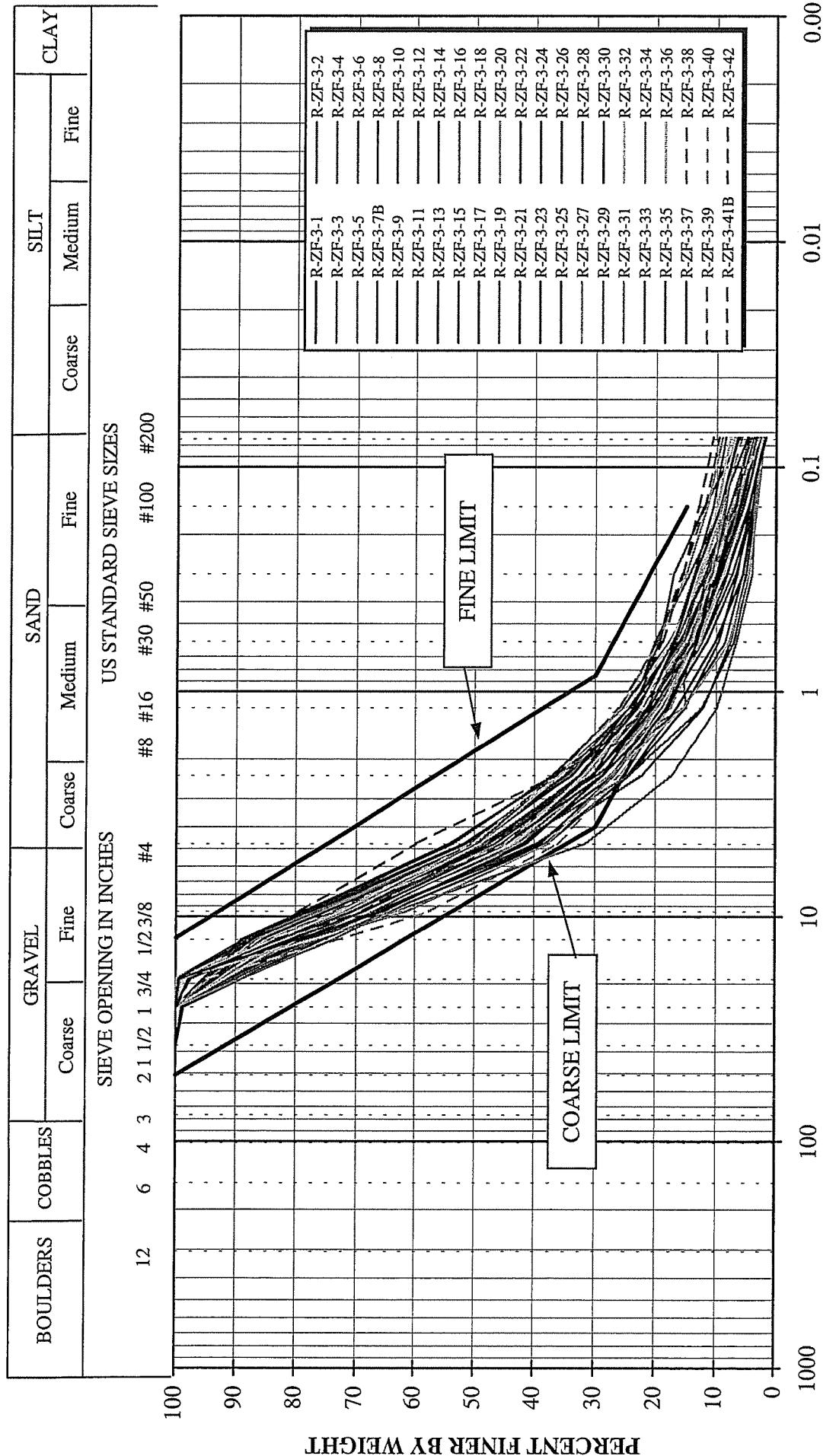
Knight Piésold
CONSULTING

FIGURE 2.14

PROJECT REF. REV.

3

0

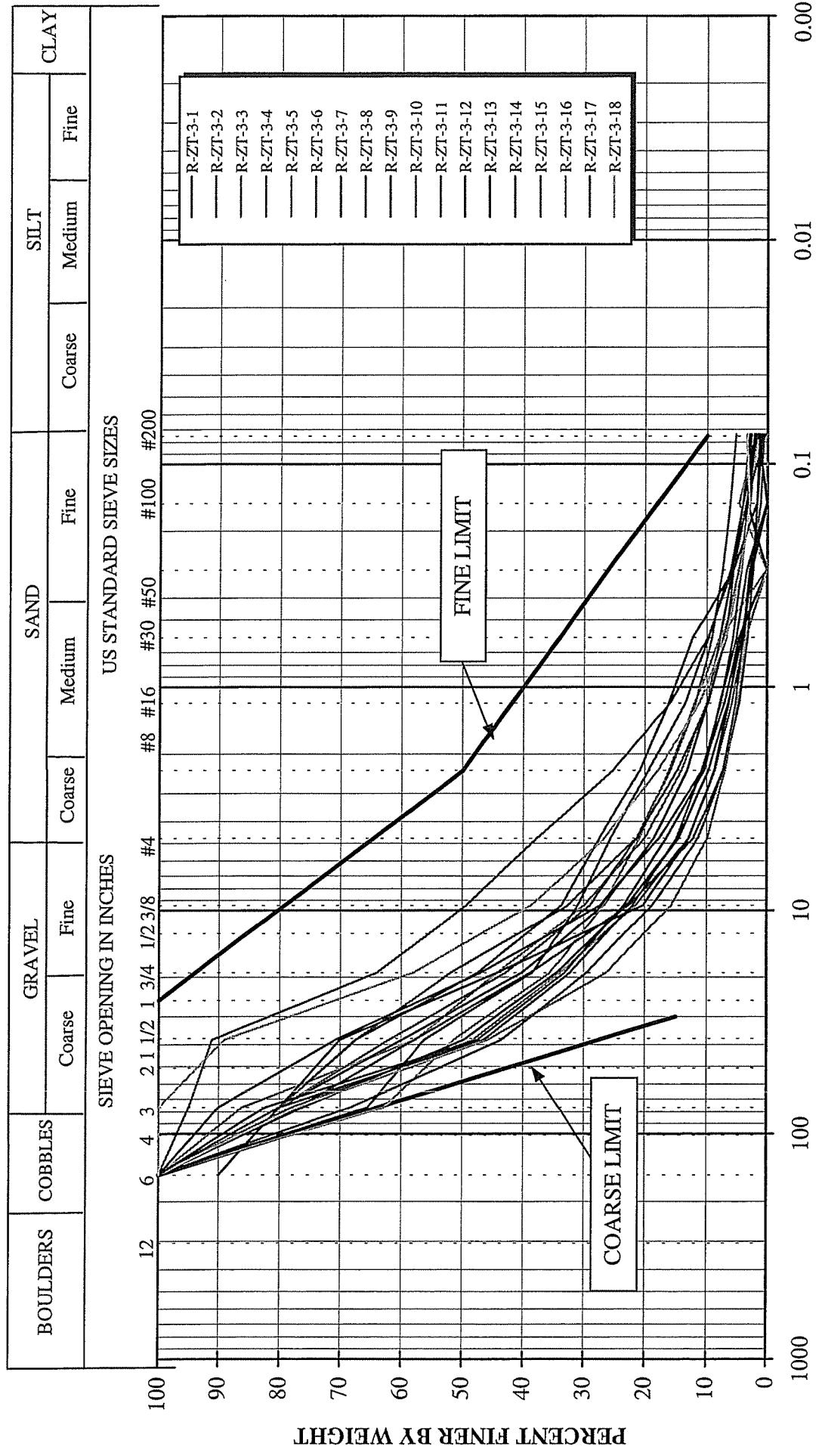


Knight Piésold CONSULTING	PROJECT 11162/14	REF. 3	REV. 0
FIGURE 2.15			

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

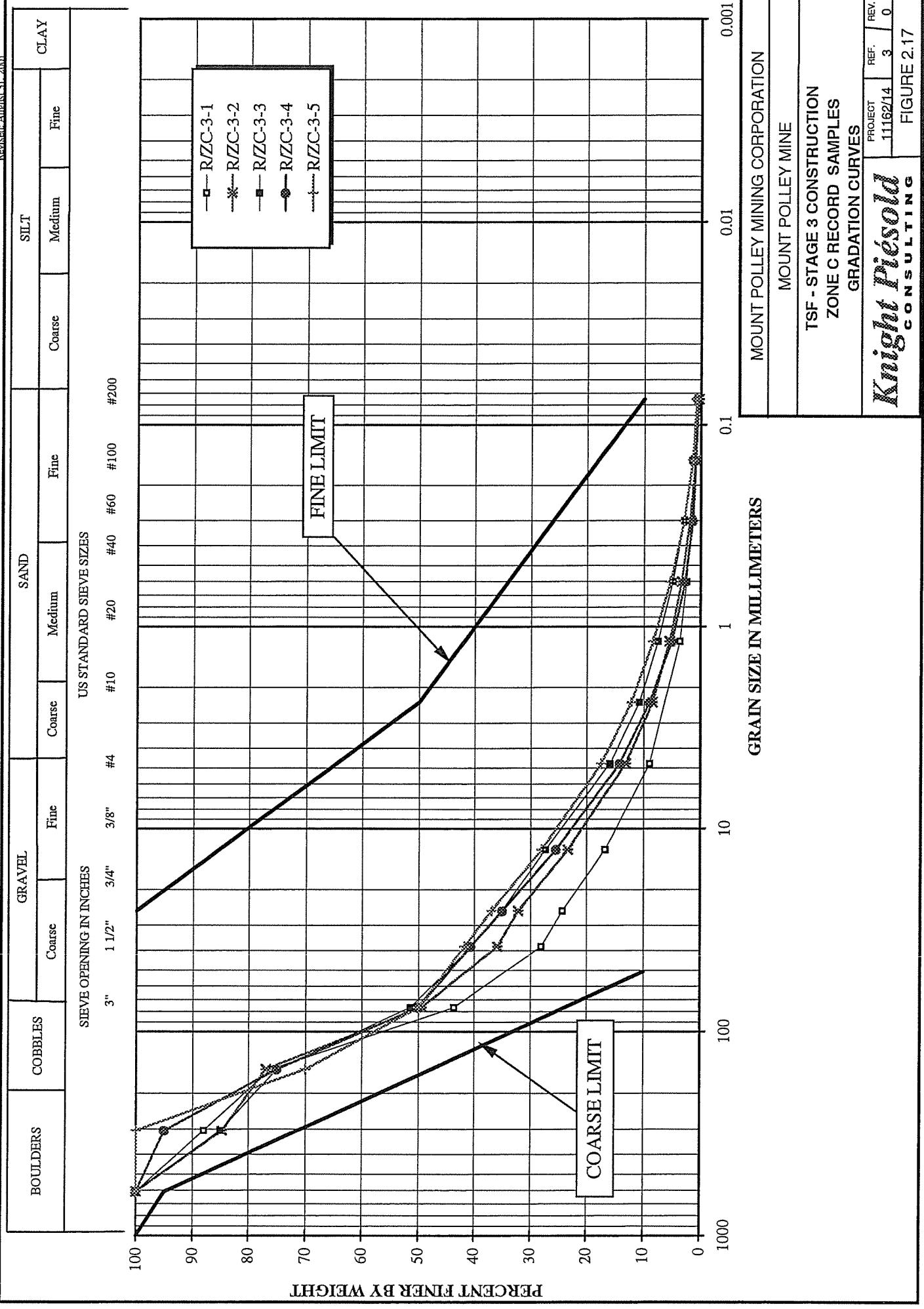
TSF - STAGE 3 CONSTRUCTION
ZONE F RECORD SAMPLES

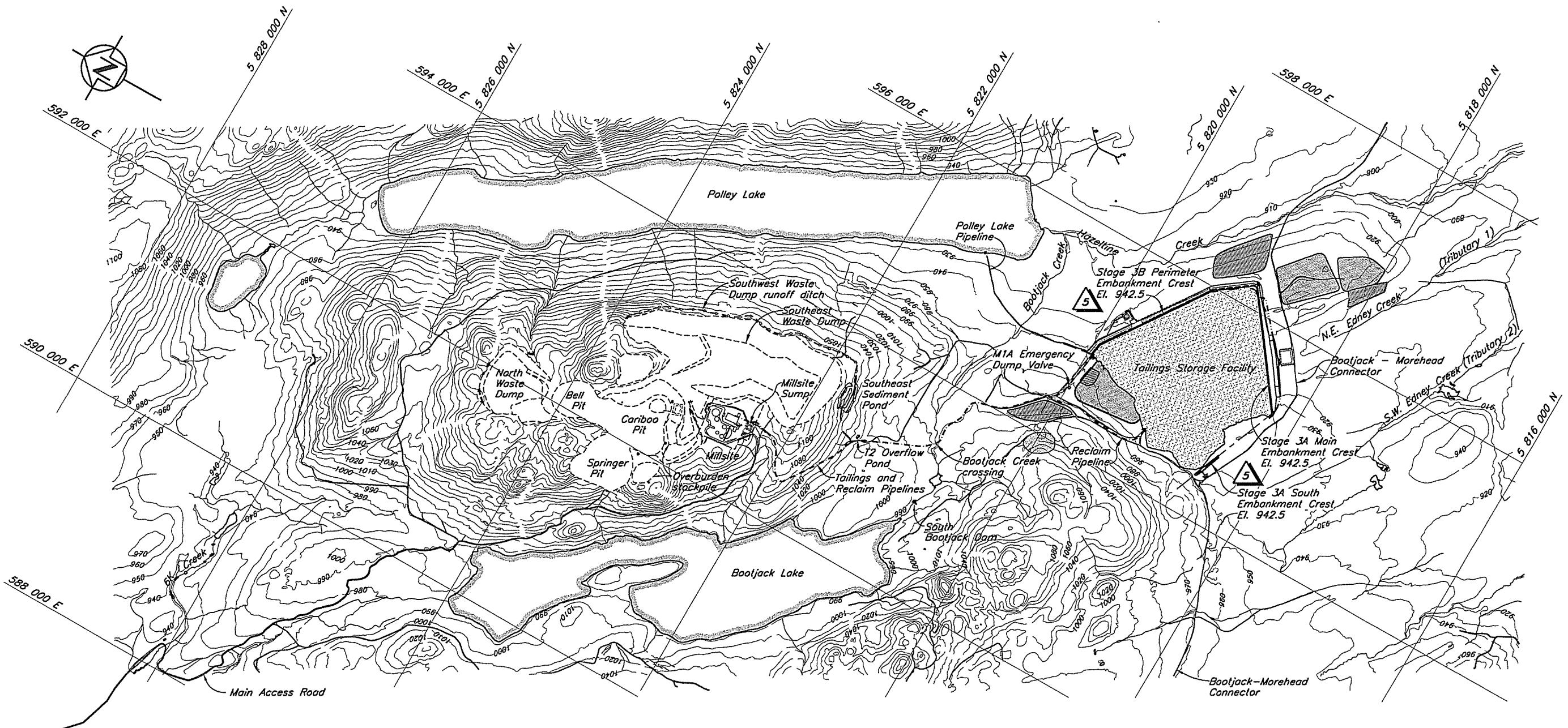
GRADATION CURVES



MOUNT POLLEY MINING CORPORATION	PROJECT	REF.	REV.
MOUNT POLLEY MINE	1116214	3	0
TSF - STAGE 3 CONSTRUCTION			
ZONE T RECORD SAMPLES			
GRADATION CURVES			
Knight Piesold			
CONSULTING			

FIGURE 2.16

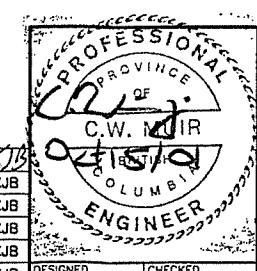




NOTES

1. Open Pits and Waste Dumps are shown in their final configurations.
2. Topography at TSF generated from points and break lines sent from MPMC in July 1999. The topography outside the TSF area is from 1997 flyover. UTM, NAD83, ZONE 10.
3. Current size and location of potential and existing Borrow Areas and Topsoil Stockpiles are to be confirmed.
4. All dimensions in millimetres with elevations in metres, unless noted otherwise.
5. No work was completed at the Main and South Embankments during Stage 3B construction.

Scale 400 0 400 800 1200 1600 2000 m



MOUNT POLLEY MINING CORPORATION

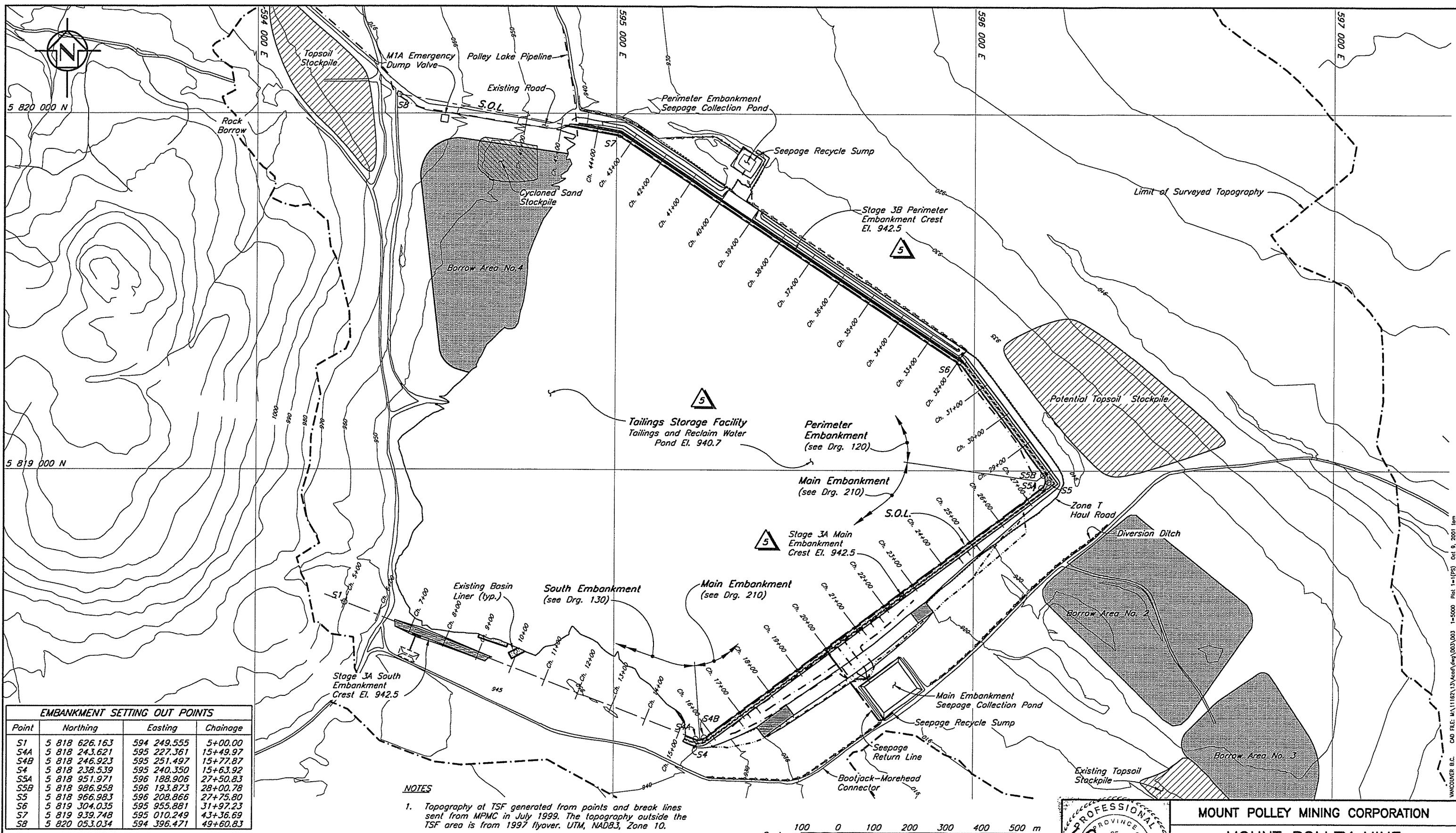
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
OVERALL SITE PLAN

DRG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	DESIGNED	CHECKED	MDB	TAM	JRK	KJB	DRAWN	APPROVED	TAM	ABW	KJB	DRAWN	APPROVED	JRK	KJB	AS SHOWN	REVISION
	REFERENCE DRAWINGS			REVISIONS							REVISIONS																					

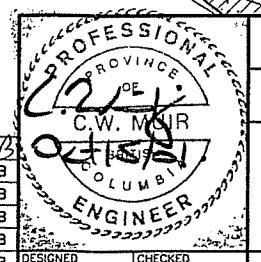
Knight Piésold
CONSULTING

DRAWING NO.
11162-13-100



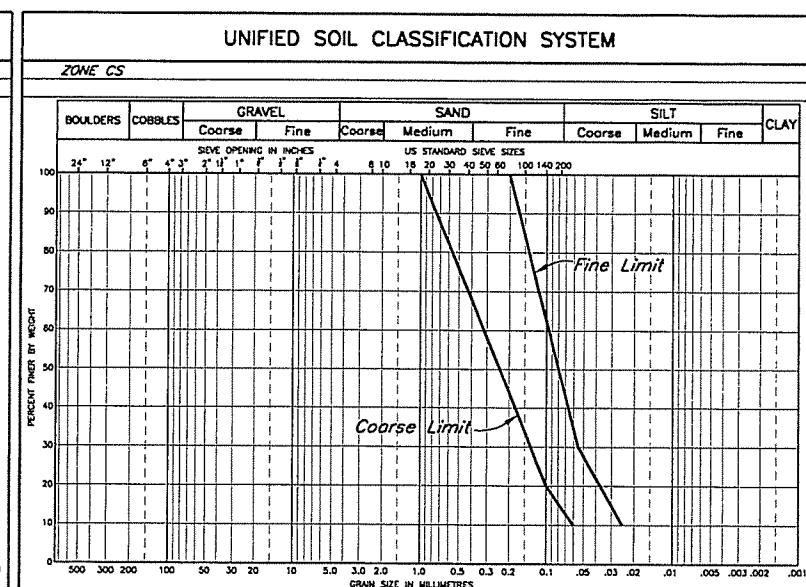
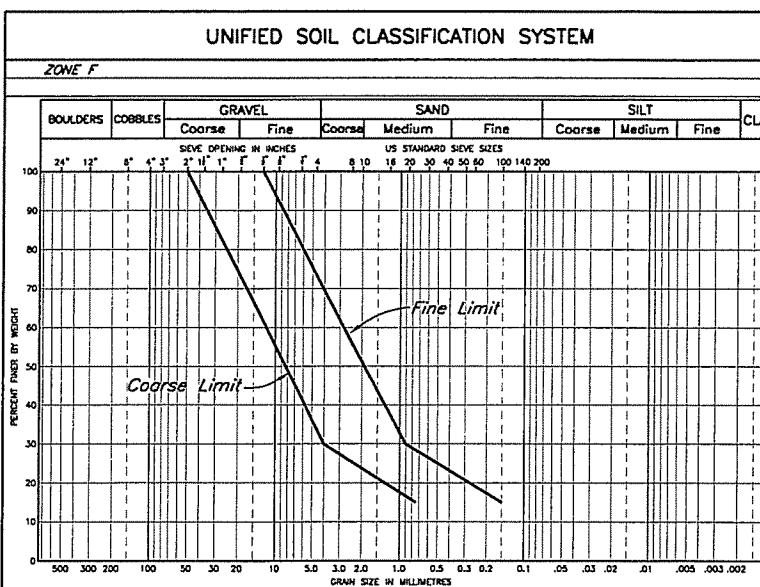
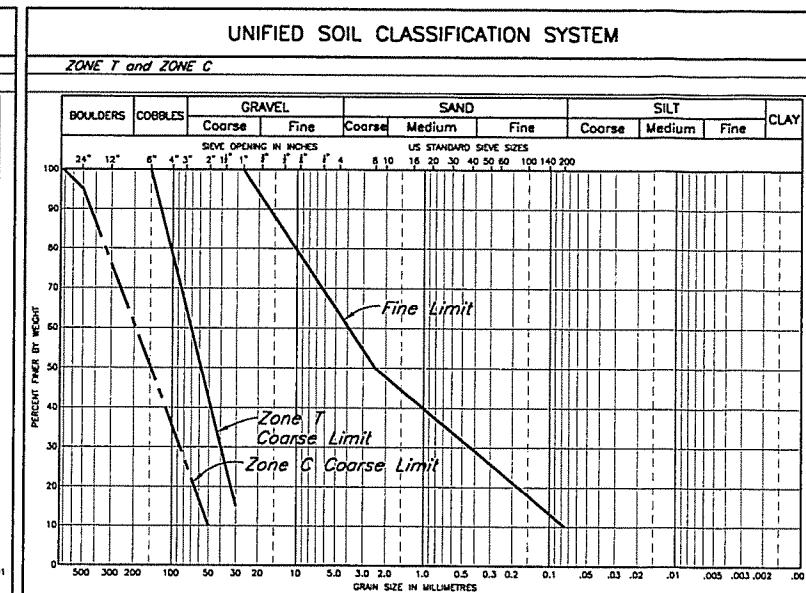
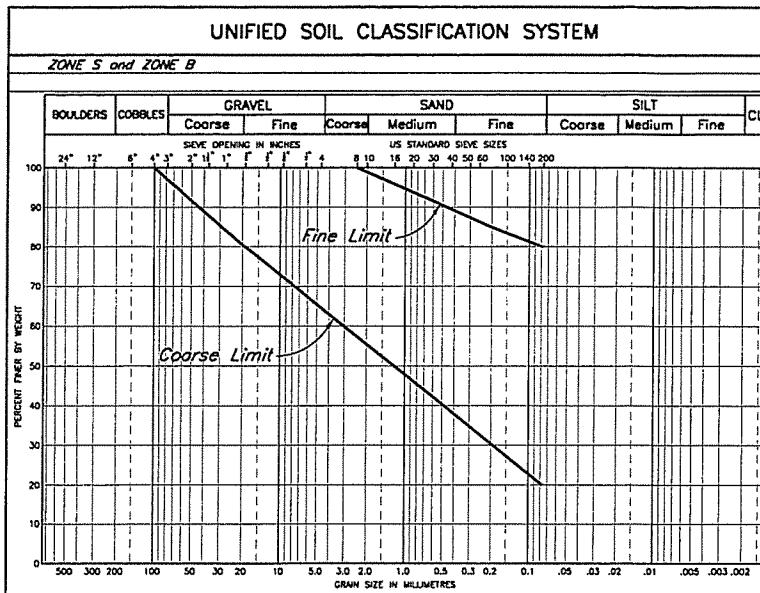
210	T.S.F. - STAGE 3 MAIN EMBANKMENT - PLAN
130	T.S.F. - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
120	T.S.F. - STAGE 3 PERIMETER EMBANKMENT - PLAN

DRG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	REV.	DATE	DESCRIPTION	REV.	DATE	DESCRIPTION	REV.	DATE
	REFERENCE DRAWINGS			REVISIONS			REVISIONS			REVISIONS		

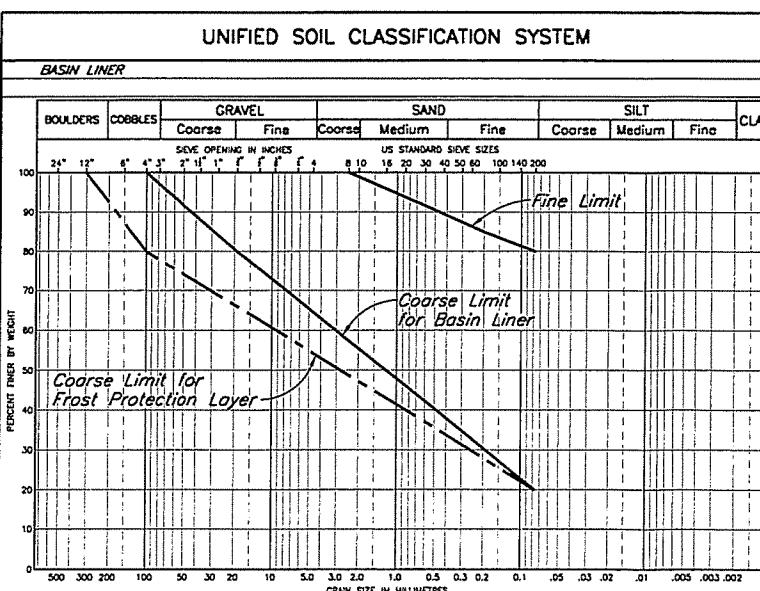


MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
GENERAL ARRANGEMENT

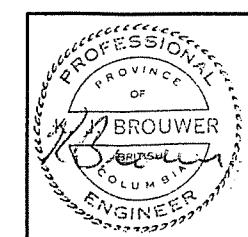
Knight Piésold
CONSULTING



ZONE	MATERIAL TYPE	LOCATION	PLACEMENT AND COMPACTION REQUIREMENTS
	Glacial till	Core Zone	Placed, moisture conditioned and spread in maximum 300 mm thick layers (after compaction). Vibratory compaction to 95% of Standard Proctor maximum dry density or as approved by the Engineer.
	Rock	Shell Zone	Placed and spread in maximum 1000 mm thick lift. Compaction as directed by the Engineer.
	Rock	Transition Zone/Confining Berm	Placed and spread in maximum 600 mm thick layers. Compaction as directed by the Engineer.
	Filter sand	Chimney Drain	Placed and spread in maximum 600 mm thick lifts. Compaction as directed by the Engineer.
	Cyclone Sand, Mechanically placed	Shell Zone	Placed, moisture conditioned and spread in maximum 500 mm thick layers (after compaction). Vibratory compaction to 95% of Standard Proctor Maximum Dry Density, or as approved by the Engineer.
	Cyclone Sand, Hydraulically placed	Shell Zone	Nominal compaction by construction equipment
	Random Rockfill	Coarse Bearing Layer	End dumped and spread as required for trafficability and fill placement.
-	Glacial till, glaciolacustrine material	Basin Liner	Placed and spread in maximum 150 mm thick lifts. Compacted to 92% of the Standard Proctor Maximum Dry Density, or as approved by the Engineer.
-	Glacial till, glaciolacustrine or granular material	Basin Liner Frost Protection	Placed and spread in maximum 300 mm thick lift. Compaction as directed by the Engineer.



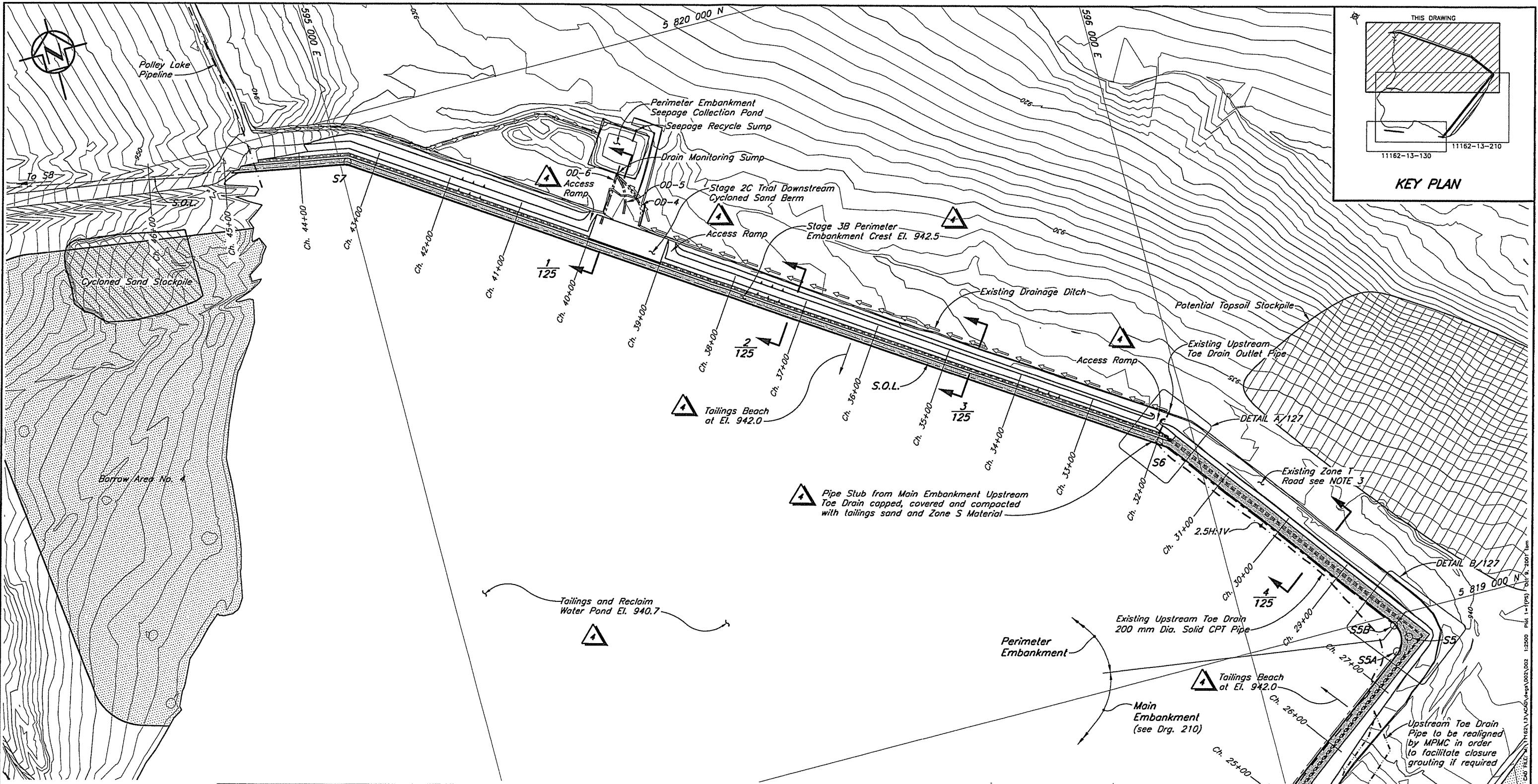
DRAWING NO. IN ELEVATION	
DRG. NO.	DESCRIPTION
225	TSF - STAGE 3 PERIMETER EMBANKMENT - SECTION - OPTION 2
215	TSF - STAGE 3 MAIN EMBANKMENT - SECTION - OPTION 2
130	TSF - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION
125	TSF - STAGE 3 PERIMETER EMBANKMENT - SECTIONS - OPTION 1
115	TSF - STAGE 3 MAIN EMBANKMENT - SECTIONS - OPTION 1



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
MATERIAL SPECIFICATIONS**



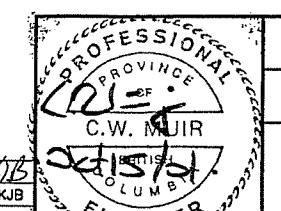
EMBANKMENT SETTING OUT POINTS

Point	Northing	Easting	Chainage
S1	5 818 626.163	594 249.555	5+00.00
S4A	5 818 243.621	595 227.361	15+49.97
S4B	5 818 246.923	595 251.497	15+77.87
S4	5 818 238.539	595 240.350	15+63.92
S5A	5 818 951.971	596 188.906	27+50.83
S5B	5 818 986.958	596 193.873	28+00.78
S5	5 818 966.983	596 208.866	27+75.80
S6	5 819 304.035	595 955.881	31+97.23
S7	5 819 939.748	595 010.249	43+36.69
S8	5 820 053.034	594 396.471	49+60.83

NOTES

1. Chainage defined by Setting Out Point S1 at Ch. 5+00.
2. Topography at TSF generated from points and break lines sent from MPMC in July 1999. The topography outside the TSF area is from 1997 flyover.
3. Zone T haul road partially covered by embankment fill to El. 942.5.
4. All dimensions in millimetres with elevations in metres, unless noted otherwise.

Scale 50 0 50 100 150 200 250 m



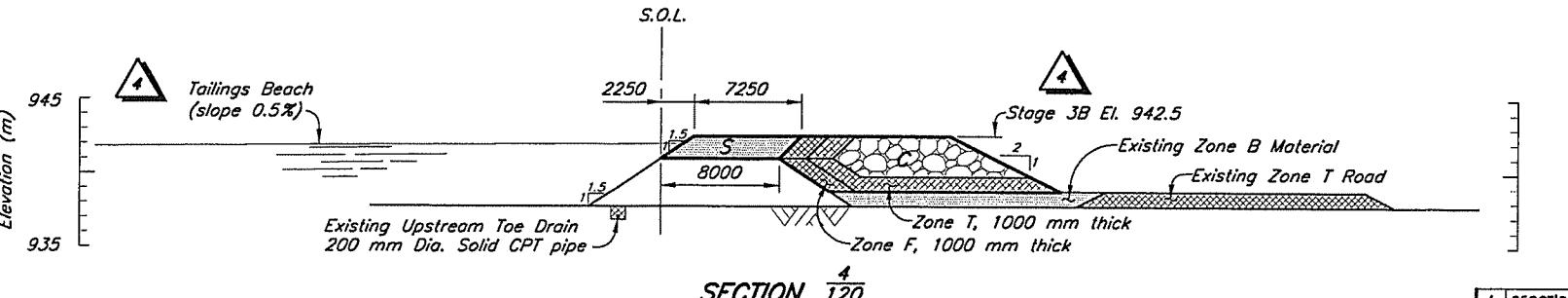
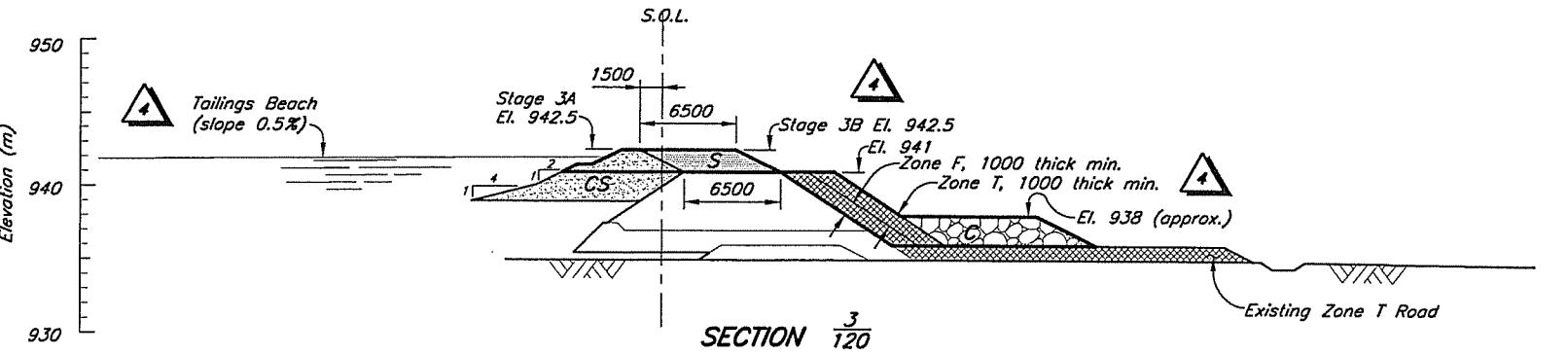
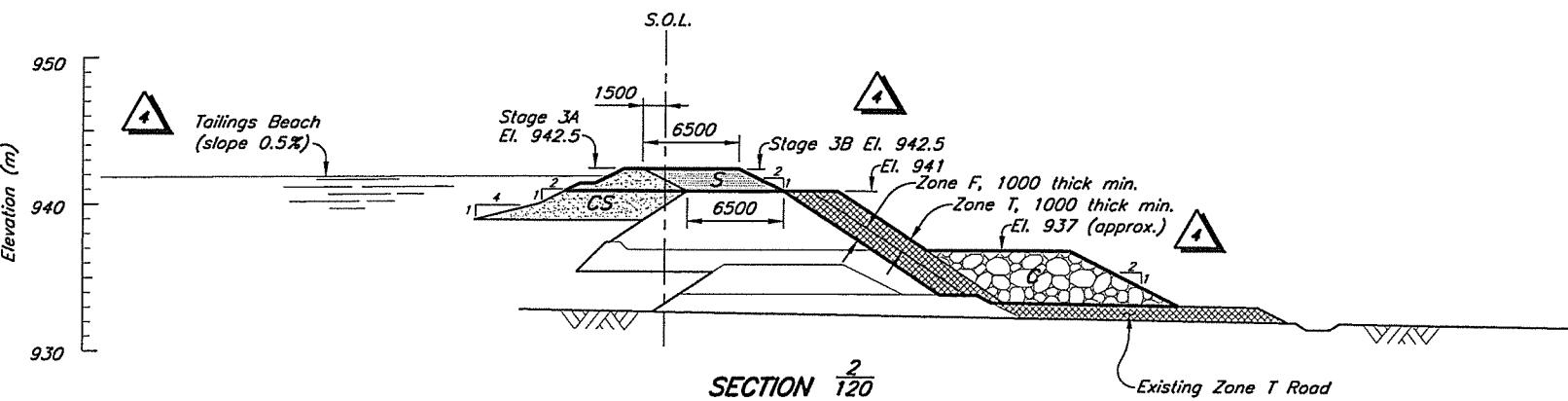
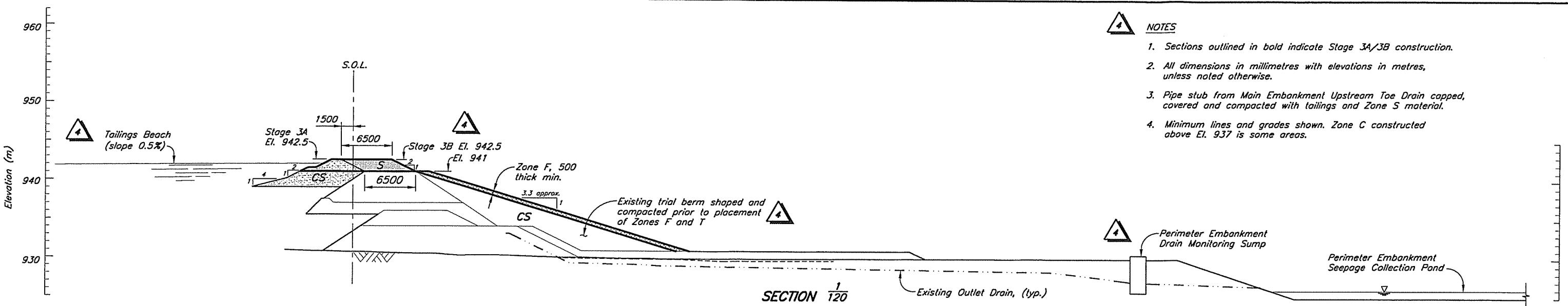
MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 PERIMETER EMBANKMENT
PLAN

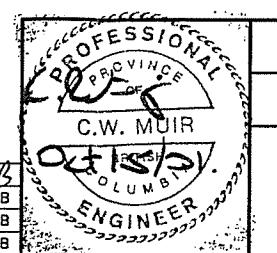
Knight Piésold
CONSULTING

SCALE AS SHOWN REVISION
DRAWING NO. 11162-13-120



ZONE	LOCATION	MATERIAL TYPE	PLACEMENT AND COMPACTION REQUIREMENTS
S	Core Zone	Glacial till	Placed, moisture conditioned and spread in maximum 300 mm thick layers (after compaction). Vibratory compaction to 95% of Standard Proctor maximum dry density or as approved by the Engineer.
C	Shell Zone	Rock	Placed and spread in maximum 1000 mm thick layers and compacted with a minimum 4 passes of 10 ton Smooth Drum Vibratory Roller, or as approved by the Engineer.
T	Transition Zone/Confining Berm	Select Rockfill	Placed and spread in maximum 600 mm thick layers and compacted with a minimum 4 passes of 10 ton Smooth Drum Vibratory Roller or as approved by the Engineer.
F	Chimney Drain	Filter sand	Placed and spread in maximum 600 mm thick lifts. Compaction as directed by the Engineer.
R	Longitudinal/Outlet Drain	Filter Sand	Placed and spread carefully around filter fabric/drain gravel. Compaction as directed by the Engineer.
G	Foundation/Longitudinal/Outlet Drain	Drain Gravel	Placed and spread carefully around seepage collection pipes. Compaction as directed by the Engineer.
O	Coarse Bearing Layer	Random Rockfill	End dumped and spread as required for trafficability and fill placement.
-	Basin Liner	Glacial till, glaciolacustrine material	Placed and spread in maximum 150 mm thick lifts. Compacted to 92% of the Standard Proctor Maximum Dry Density, or as approved by the Engineer.
-	Basin Liner Frost Protection	Glacial till, glaciolacustrine or granular material	Placed and spread in maximum 300 mm thick lift. Compaction as directed by the Engineer.
CS	Cycloned Sand	Hydraulically placed	Nominal compaction by construction equipment
CS	Cycloned Sand	Mechanically placed	Placed, moisture conditioned and spread in maximum 1000 mm thick layers (after compaction). Vibratory compaction to 95% of Standard Proctor maximum dry density or as approved by the Engineer.

Scale 5 0 5 10 15 20 25 Metres



MOUNT POLLEY MINING CORPORATION

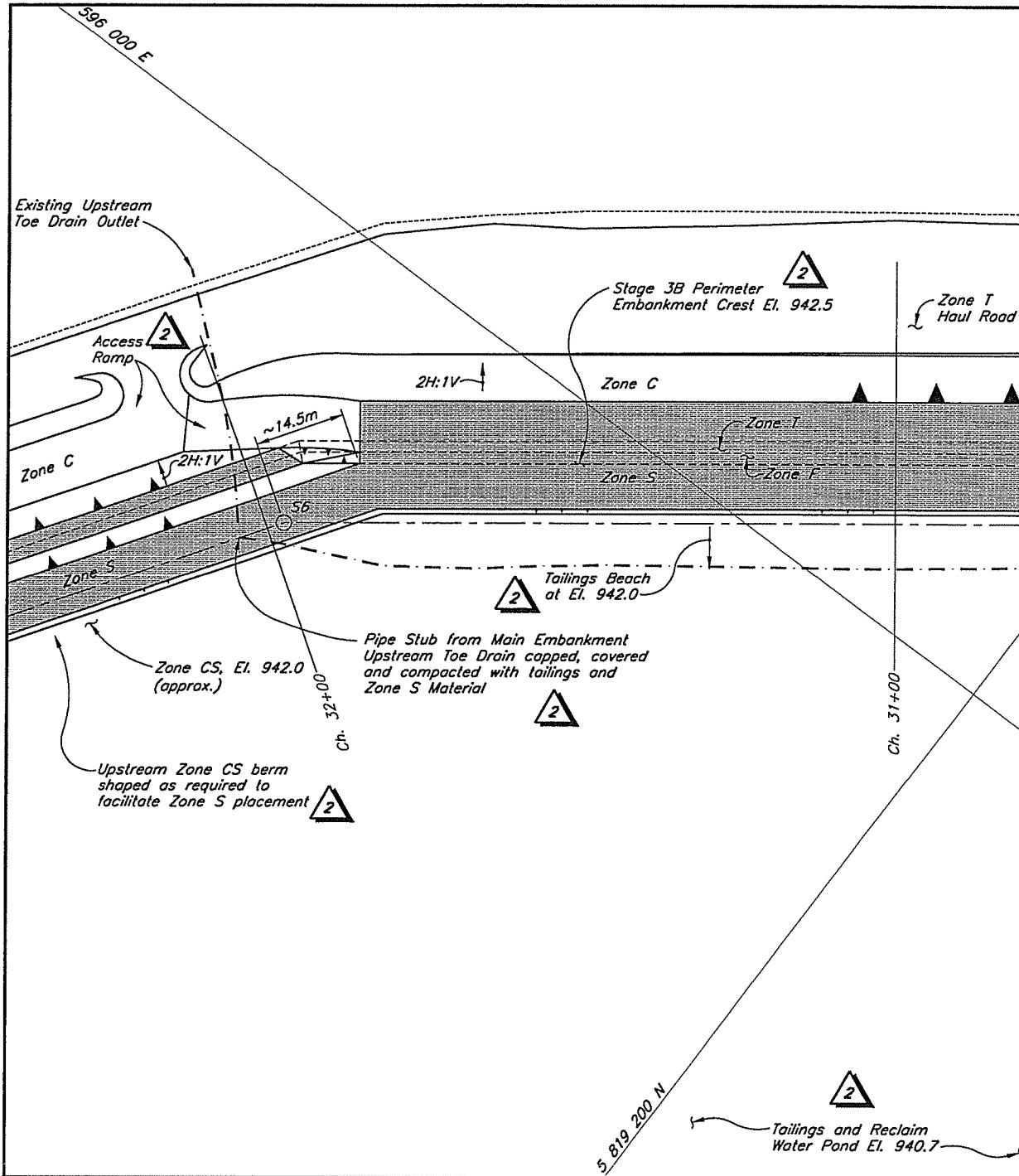
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 PERIMETER EMBANKMENT
SECTIONS

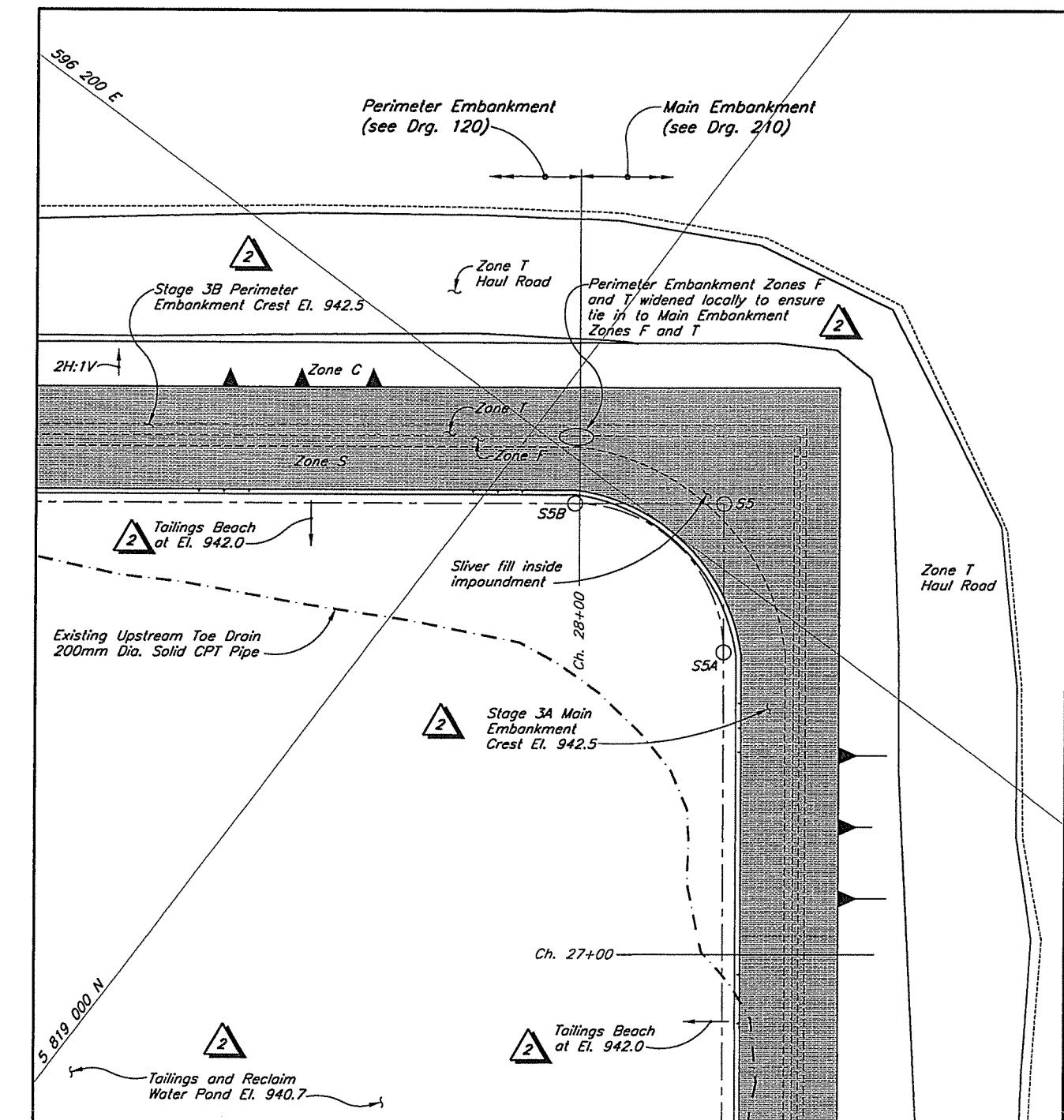
Knight Piésold
CONSULTING

120	TSF - STAGE 3 - PERIMETER EMBANKMENT - PLAN
104	TSF - STAGE 3 - MATERIAL SPECIFICATIONS
DRG. NO.	

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	DESIGNED	CHECKED	JRK	TAM	KJB	DRAWN	APPROVED	REVISION	
REFERENCE DRAWINGS			REVISIONS							REVISIONS													
11162-13-125																							



DETAIL A/120
TRANSITION AT SETTING OUT POINT S6



DETAIL B/120
TRANSITION TO MAIN EMBANKMENT

NOTE

- All dimensions in millimetres with elevations in metres, unless noted otherwise.
- No work was completed at the Main Embankment during Stage 3B construction.

Scale 10 0 10 20 30 40 50 m

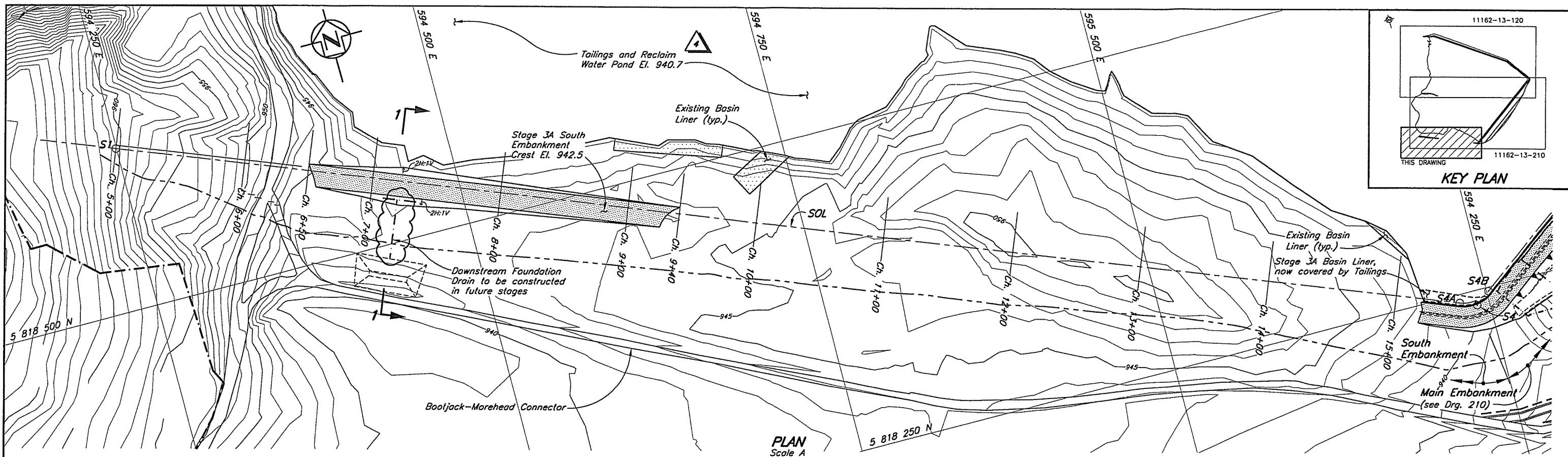


MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 PERIMETER EMBANKMENT
TRANSITION ZONES DETAILS

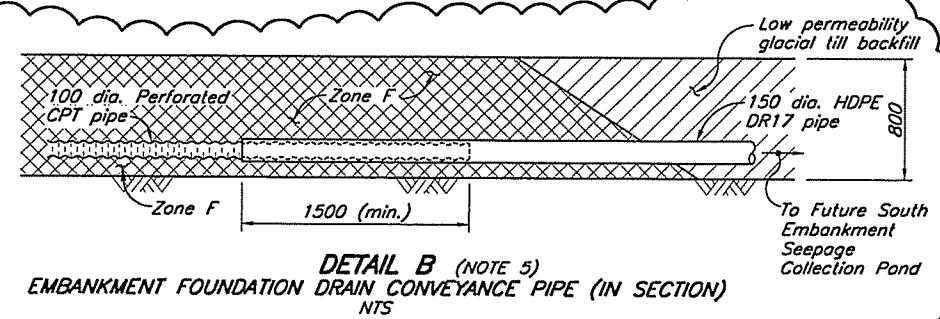
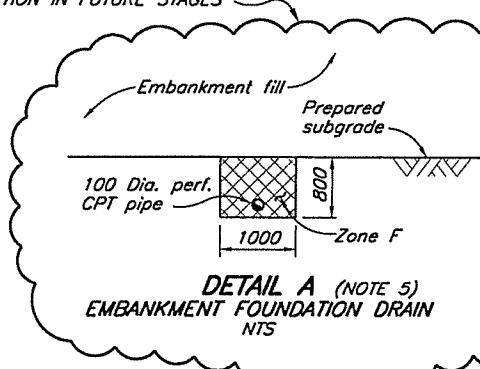
210	TSF - STAGE 3 MAIN EMBANKMENT - PLAN
125	TSF - STAGE 3 PERIMETER EMBANKMENT - SECTIONS
120	TSF - STAGE 3 PERIMETER EMBANKMENT - PLAN
DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	
REV. DATE DESCRIPTION DESIGN DRAWN CHK'D APP'D	
REVISIONS	

2 05OCT'01	STAGE 3A/3B - AS CONSTRUCTED	CWM	TAM	JMTW	KJB
1 08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JURK	KJB
0 09MAR'01	STAGE 3B - CREST EL. 945	JRK	TAM	JMTW	KJB
	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
	REVISIONS				
REV. DATE DESCRIPTION DESIGN DRAWN CHK'D APP'D		REVISIONS		DRAWN APPROVED TAM KJB	
REFERENCE DRAWINGS		REVISIONS		DRAWN APPROVED TAM KJB	

Knight Piésold CONSULTING
DRAWING NO. 11162-13-127

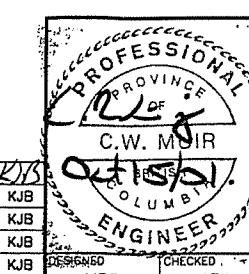
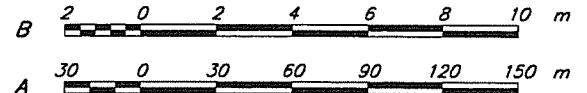
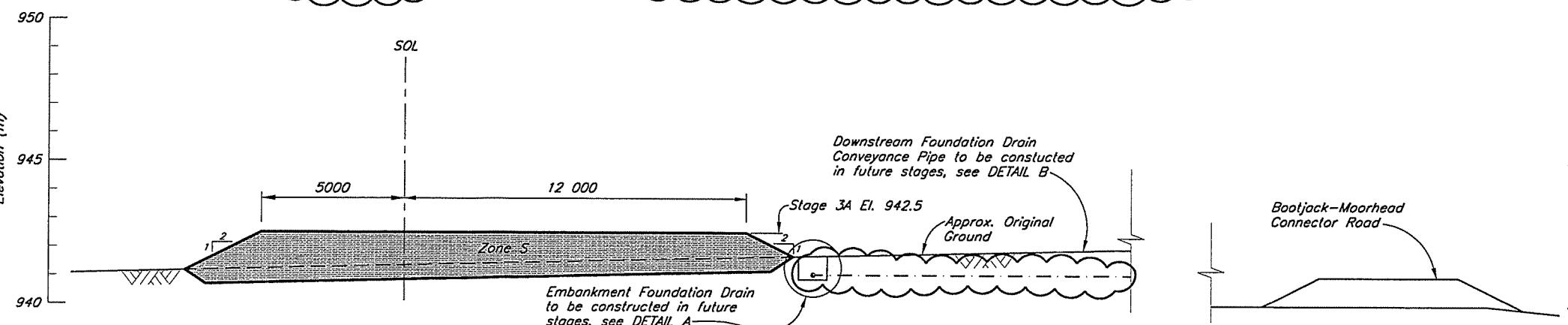


FOR CONSTRUCTION IN FUTURE STAGES



NOTES

- All dimensions in millimeters and elevations in metres, unless noted otherwise.
- Topography at TSF generated from points and break lines sent from MPMC in July 1999. The Topography outside the TSF area is from 1997 flyover.
- For Zone Materials Specifications and legend, see Drg. 104.
- Location of Future Embankment Foundation Drain and conveyance pipe to be installed in trench excavated in competent insitu material approved by Engineer.
- Sections outlined in bold indicate Stage 3A/3B construction.
- No work was completed at the South Embankment during Stage 3B construction.



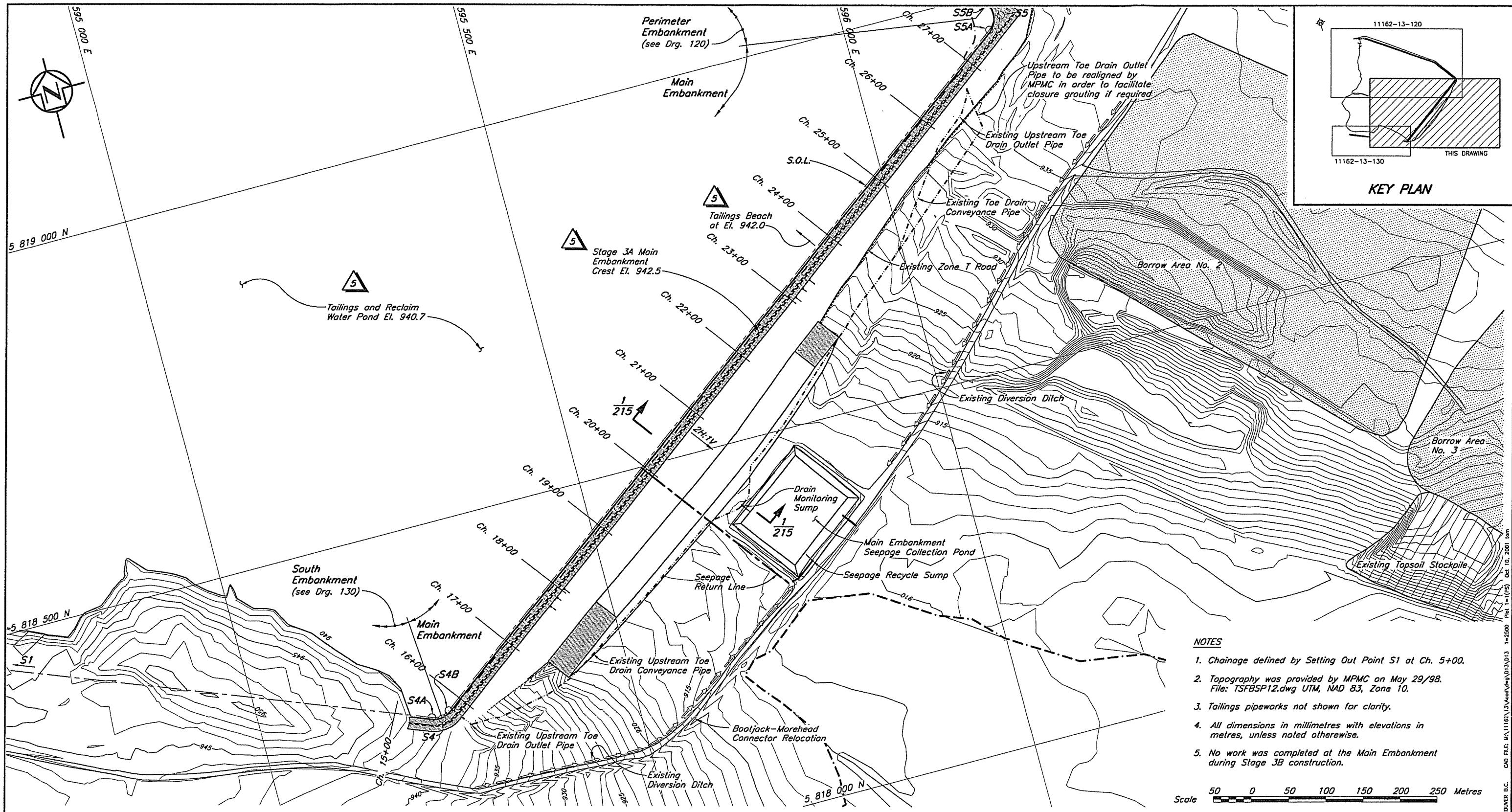
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 SOUTH EMBANKMENT
PLAN AND SECTION

REF. FILE : TOPO99_STAGEB_PLAN	210	TSF - STAGE 3 MAIN EMBANKMENT - PLAN
120	TSF - STAGE 3 PERIMETER EMBANKMENT - PLAN	
104	TSF - STAGE 3 TAILINGS EMBANKMENT - MATERIALS SPECIFICATIONS	
DRG. NO.	DESCRIPTION	REV. DATE
REFERENCE DRAWINGS	REVISIONS	

DRG. NO.	DESCRIPTION	REV.	DATE	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	DESIGNED	CHECKED	DRAWN	APPROVED	SCALE	AS SHOWN	REVISION
11162-13-130	REFERENCE DRAWINGS									REVISIONS							NSD	KJB	DRAWING NO.	11162-13-130	

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REF FILE : Topo99_Sec49_Ne-Bult

DRG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
215	TSF - STAGE 3 MAIN EMBANKMENT - SECTION AND DETAILS							
130	TSF - STAGE 3 SOUTH EMBANKMENT - PLAN AND SECTION							
120	TSF - STAGE 3 PERIMETER EMBANKMENT - PLAN							

REFERENCE DRAWINGS

REV.

DATE

DESCRIPTION

DESIGN

DRAWN

CHK'D

APP'D

5	05OCT'01	STAGE 3A/3B - AS CONSTRUCTED	CWM	TAM	✓
4	08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK KJB
3	26JAN'01	STAGE 3B - CREST EL. 945	JRK	TAM	JMTW KJB
2	2JUN'00	ISSUED FOR CONSTRUCTION	JRK	TAM	ABW KJB
1	17MAY'00	ISSUED FOR TENDER ADDENDUM 3	JRK	TAM	KDE KJB
0	14APR'00	ISSUED FOR TENDER	JRK	WAL	KDE KJB

DESIGNED

CHECKED

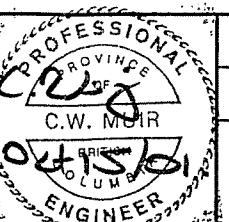
JRK

ABW

DRAWN

APPROVED

KJB



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 MAIN EMBANKMENT
PLAN

Knight Piésold
CONSULTING

SCALE AS SHOWN
DRAWING NO. 11162-13-210

VANCOUVER B.C.
Oct 10, 2001 (PS)
1:2500
C:\DWG\11162\13Vcad\drg01\13

File 1 = (PS)

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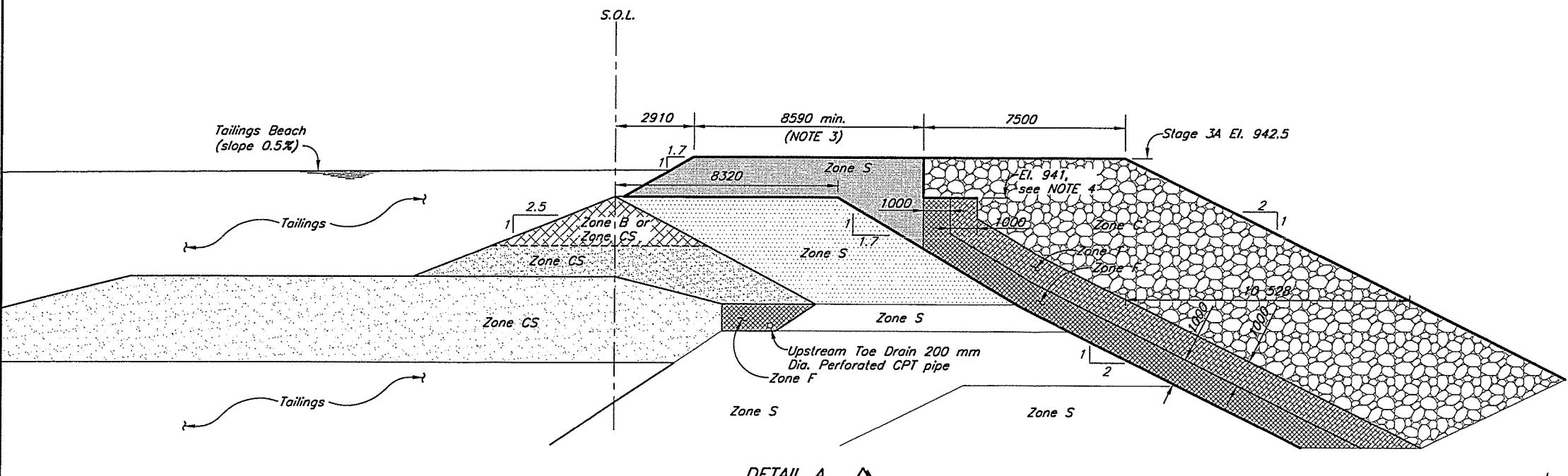
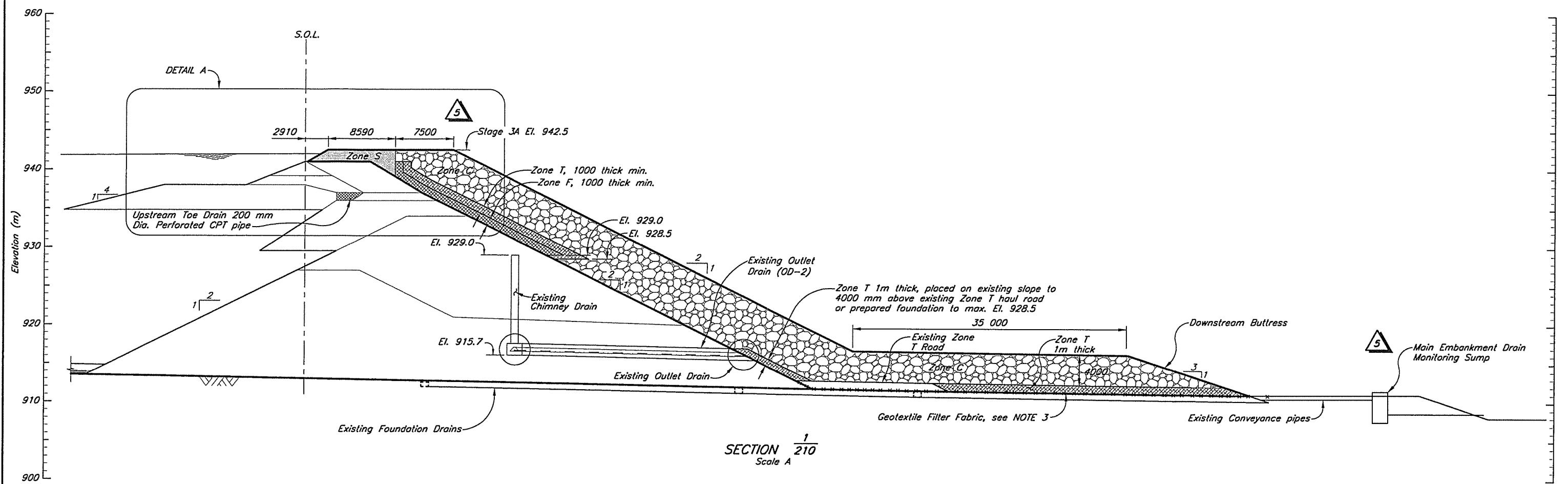
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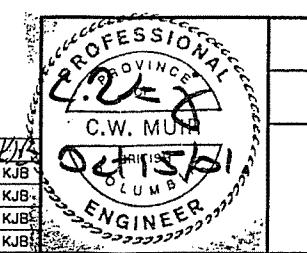
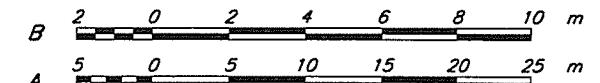
04/15/01

04/15/01

04/15/01



- NOTES**
1. Sections outlined in bold indicate Stage 3A/3B construction.
 2. For zone material specifications and legend see Drg. 104.
 3. All dimensions in millimetres and elevations in metres, unless noted otherwise.
 4. Zone F and T placed to El. 941. Zone C placed over Zones F and T to El. 942.5 during Stage 3A construction. Zone C to be removed and replaced with Zone F and T to El. 942.5 prior to future construction.
 5. No work was completed at the Main Embankment during Stage 3B construction.



MOUNT POLLEY MINING CORPORATION

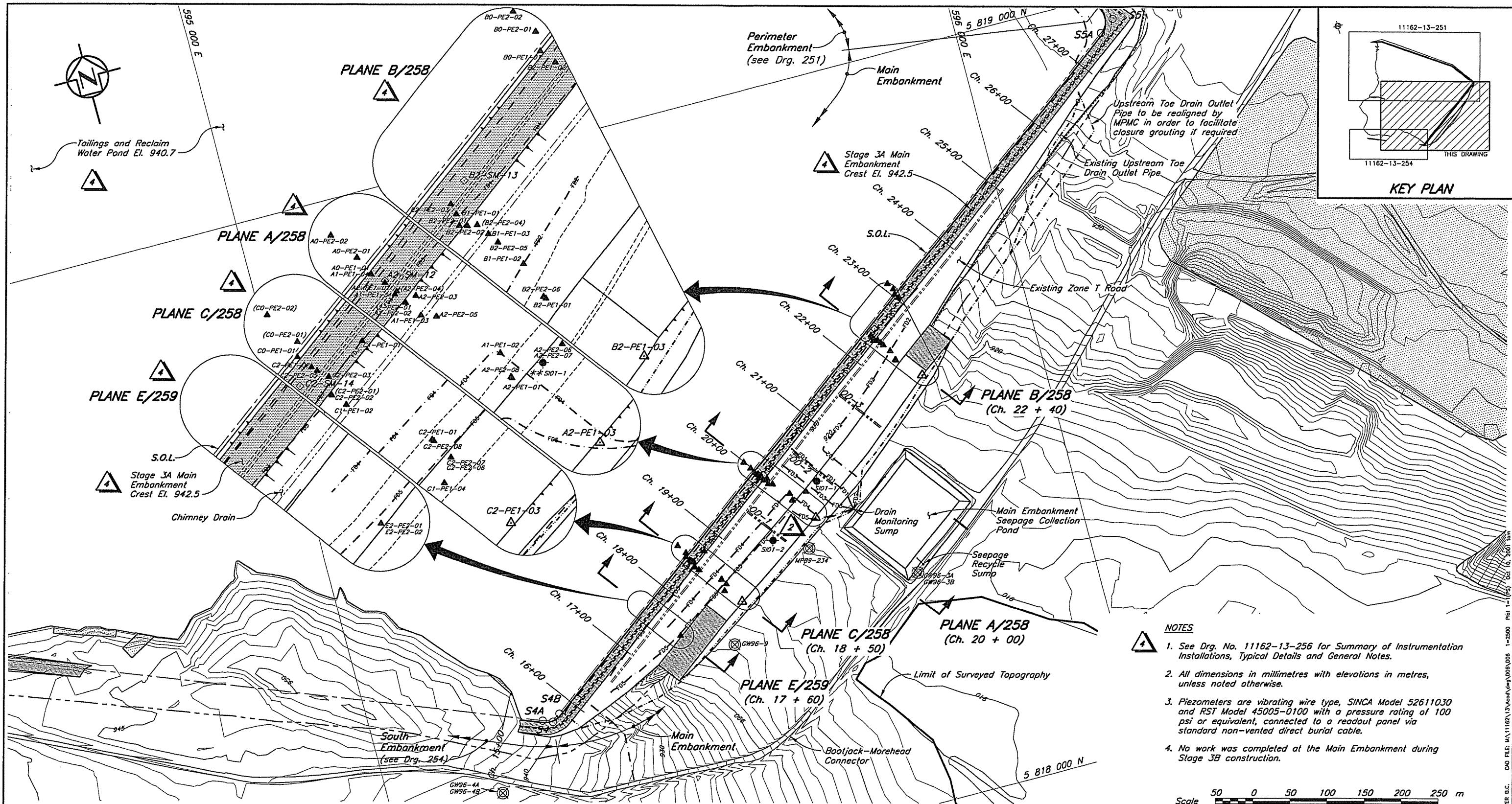
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 MAIN EMBANKMENT
SECTION AND DETAILS

210	TSF - STAGE 3 MAIN EMBANKMENT - PLAN
104	TSF - STAGE 3 - MATERIALS SPECIFICATIONS
DRG. NO.	DESCRIPTION

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	DESIGNED	CHECKED	SCALE	AS SHOWN	REVISION	
		REFERENCE DRAWINGS		REVISIONS					REVISIONS										

Knight Piésold
CONSULTING

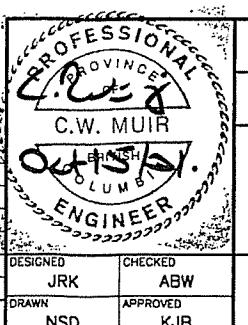

LEGEND

- (◎) GW96-9 Groundwater Monitoring Well
- ▲ A1-PE1-01 Previously installed Piezometer
- △ A2-PE2-06 New Stage 3 Piezometer
- ◊ A2-SM-01 New Embankment Survey Monument
- S101-1 Slope Inclinometer

259	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS - SHEET 2 OF 2
258	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS - SHEET 1 OF 2
256	TSF-STAGE 3 TAILINGS EMBANKMENT-INSTRUMENTATION-SUMMARY OF INSTALLATION AND TYPICAL DETAILS
254	TSF - STAGE 3 SOUTH EMBANKMENT - INSTRUMENTATION - PLAN
251	TSF - STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION - PLAN

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	REFERENCE DRAWINGS			REVISIONS				

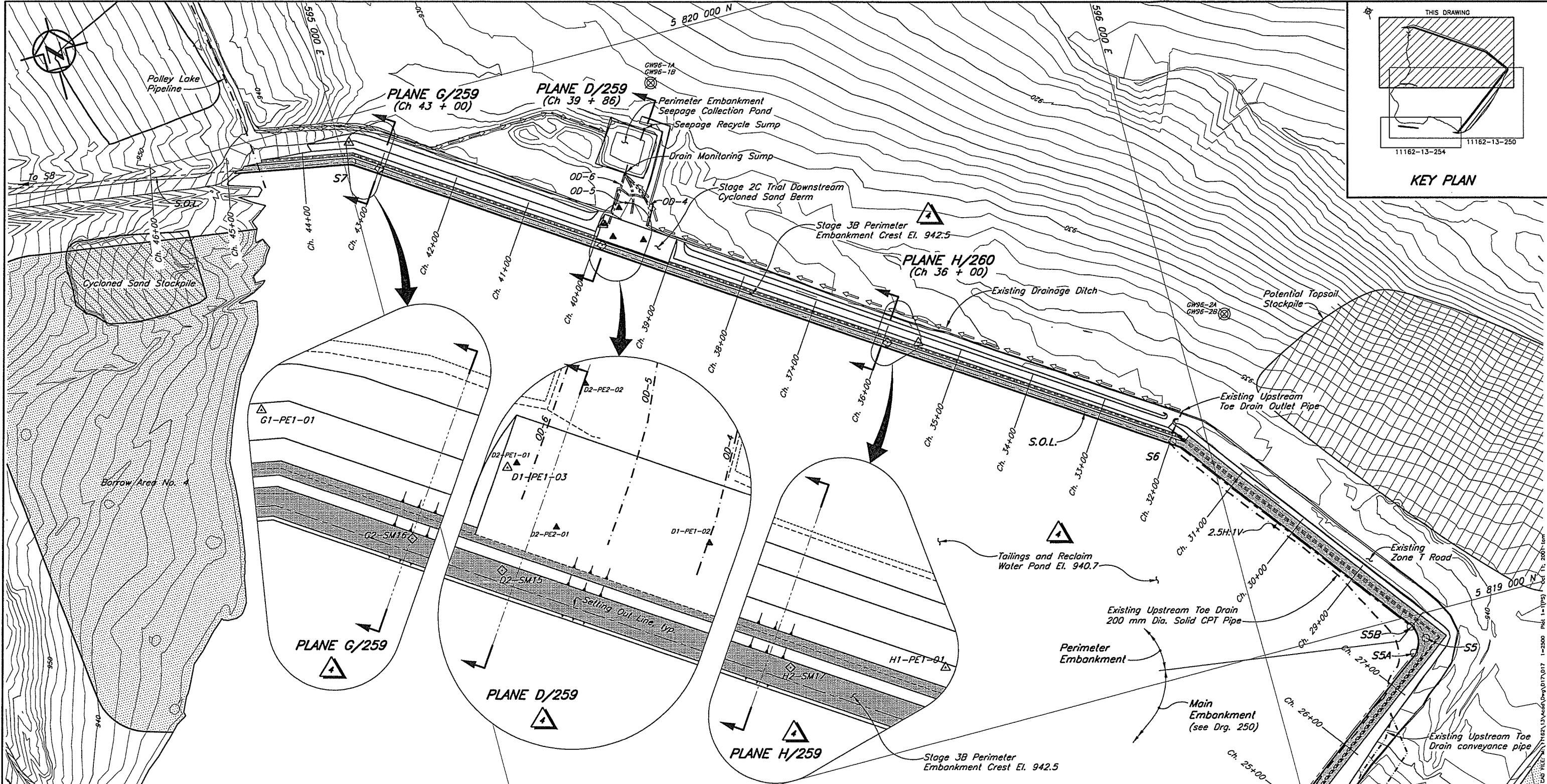
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3	SEPT14'01	ISSUED FOR 2000 & 2001 ANNUAL INSPECTION REPORT	CWM	TAM	JLG KJB
2	08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK KJB
1	26JAN'01	STAGE 3B - CREST EL. 945	JRK	TAM	JMTW KJB
0	02JUN'00	ISSUED FOR CONSTRUCTION	JRK	TAM	ABW KJB



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 MAIN EMBANKMENT
INSTRUMENTATION PLAN

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DRAFTING NO. 11162-13-250



LEGEND

- (◎) GW95-9 Groundwater Monitoring Well
- (▲) A1-PE1-01 Previously installed Piezometer
- (△) A2-PE2-06 New Stage 3 Piezometer
- (◇) A2-SM-01 New Embankment Survey Monument

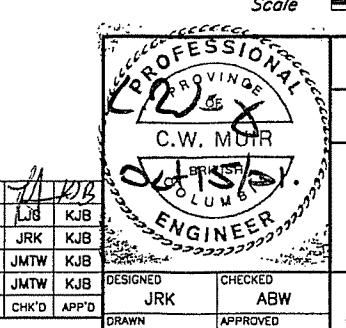
NOTES

- Chainage defined by Setting Out Point S1 at Ch. 5+00.
- Topography generated from points and break lines provided by MPMC on July 20, 1999. Topography outside the TSF area is from 1997 flyover.
- See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details and General Notes.
- All dimensions in millimetres with elevations in metres, unless noted otherwise.
- Piezometers are vibrating wire type, SINCA Model 52611030 and RST Model 45005-0100 with a pressure rating of 100 psi or equivalent, connected to a readout panel via standard non-vented direct burial cable.

259	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS - SHEET 2 OF 2
258	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS - SHEET 1 OF 2
250	TSF - STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN

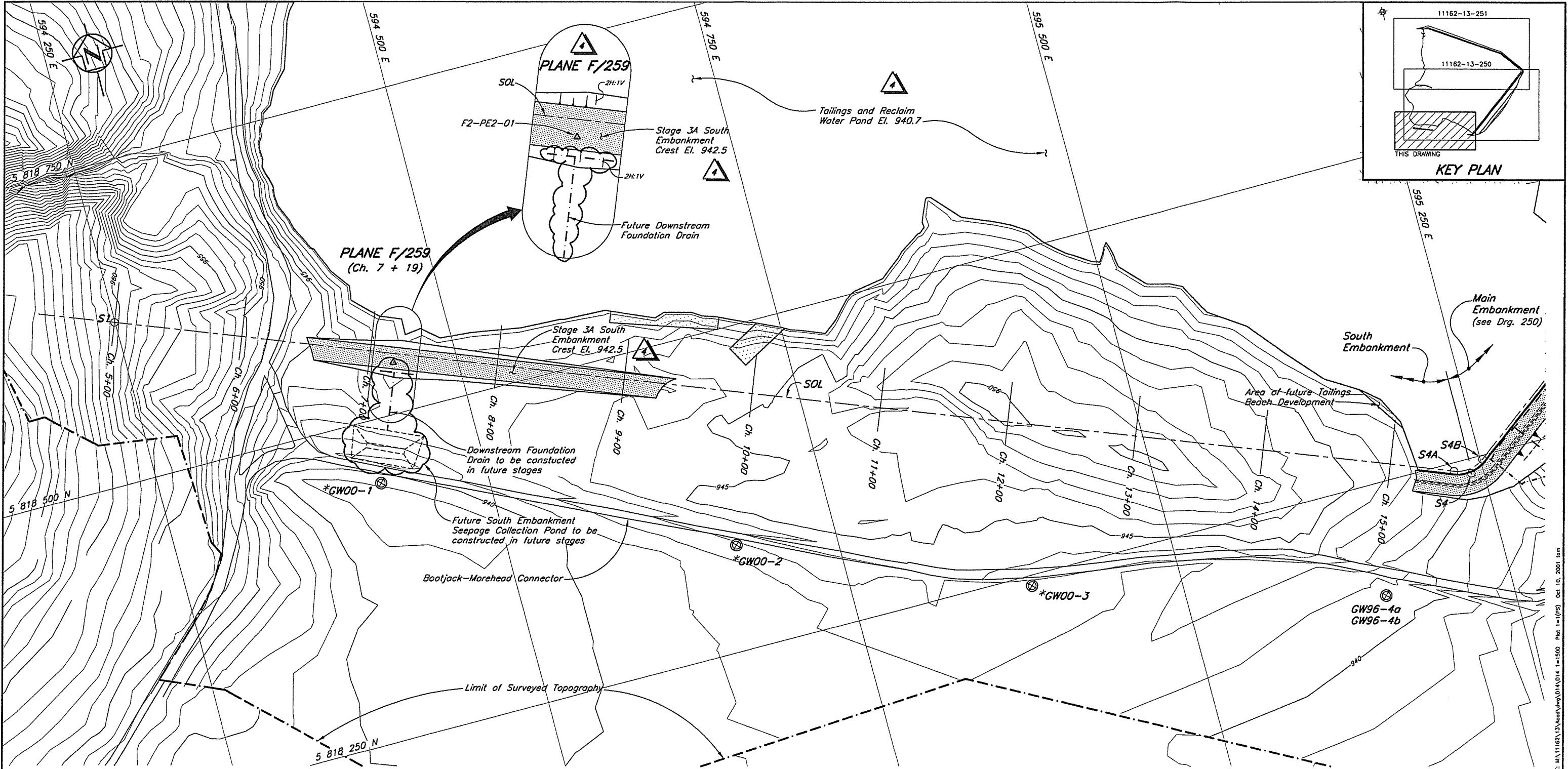
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	REFERENCE DRAWINGS			REVISIONS				

4	05OCT'01	STAGE 3A/3B - AS CONSTRUCTED	CWM	TAM	JLR
3	14SEPT'01	ISSUED FOR 2000 & 2001 ANNUAL INSPECTION REPORT	CWM	TAM	JLR
2	08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK
1	09MAR'01	STAGE 3B - CREST EL. 945	JRK	NSD	JMTW
0	20OCT'00	ISSUED FOR CONSTRUCTION	JRK	NSD	JMTW



MOUNT POLLEY MINING CORPORATION
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STAGE 3 PERIMETER EMBANKMENT
INSTRUMENTATION PLAN
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SCALE AS SHOWN REVISION 4
DRAWING NO. 11162-13-251



LEGEND

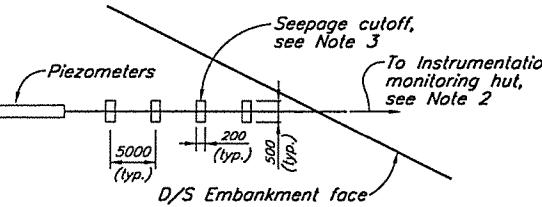
- GW96-9 Groundwater Monitoring Well
- A1-PE1-01 Previously installed Piezometer
- A2-PE2-06 New Stage 3 Piezometer
- A2-SM-01 New Embankment Survey Monument

NOTES

- See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details and General Notes.
- All dimensions in millimetres with elevations in metres, unless noted otherwise.
- No work was completed at the South Embankment during Stage 3B construction.
- Piezometers are vibrating wire type, SINCA Model 52611030 and RST Model 45005-0100 with a pressure rating of 100 psi or equivalent, connected to a readout panel via standard non-vented direct burial cable.

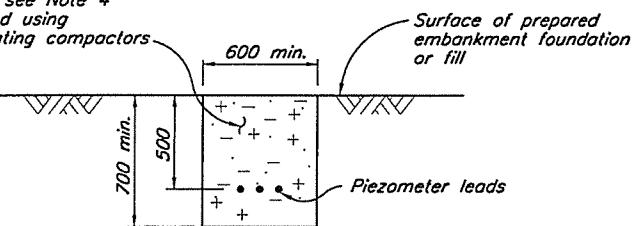
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259		TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION SECTIONS - SHEET 2 OF 2													
256		TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION AND TYPICAL DETAILS													
DRG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
	REFERENCE DRAWINGS			REVISIONS							REVISIONS				

MOUNT POLLEY MINING CORPORATION									
MOUNT POLLEY MINE									
TAILINGS STORAGE FACILITY									
STAGE 3 SOUTH EMBANKMENT									
INSTRUMENTATION PLAN									
C.W. MUIR Oct 15/01	SCALE AS SHOWN	4	Knight Piesold CONSULTING	DRAWING NO.	11162-13-254				

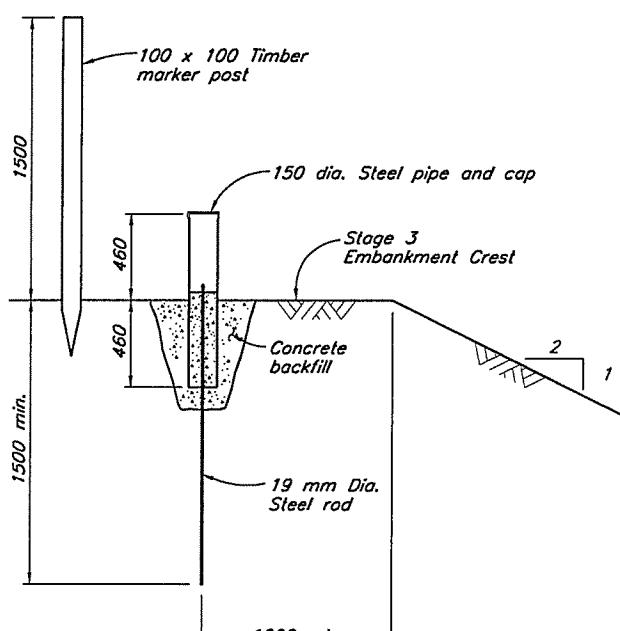


DETAIL A
**TYPICAL INSTALLATION DETAIL OF SEEPAGE CUTOFF FOR
PIEZOMETER LEADS IN GLACIAL TILL
NTS**

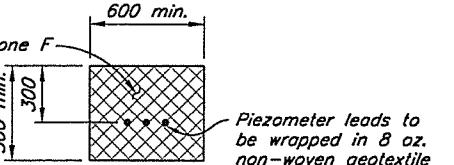
*Bedding and backfill for
piezometer leads, see Note 4
Material compacted using
hand-guided vibrating compactors.*



**TYPICAL SECTION THROUGH PIEZOMETER LEAD TRENCH
IN PREPARED EMBANKMENT FOUNDATION OR FILL**

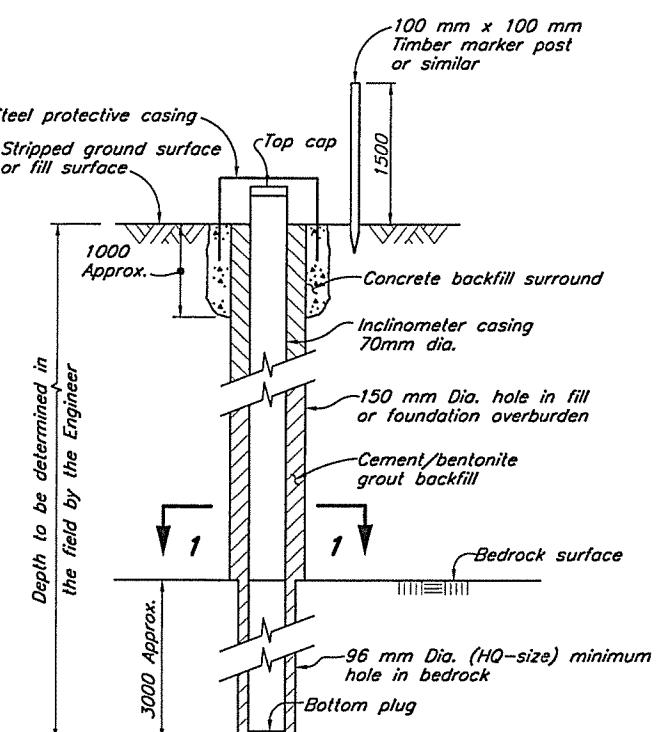


*TYPICAL DETAIL OF
SURFACE MOVEMENT MONUMENT*

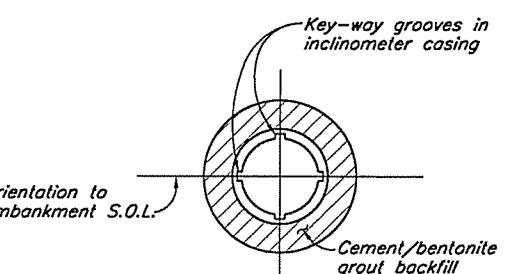


DETAIL B
258

TYPICAL INSTALLATION DETAIL FOR
 PIEZOMETER LEADS IN ZONE F



**TYPICAL INCLINOMETER INSTALLATION
IN BOREHOLE**



SECTION 1

259	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS - SHEET 2 OF 2
258	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS - SHEET 1 OF 2
254	TSF - STAGE 3 SOUTH EMBANKMENT - INSTRUMENTATION - PLAN
251	TSF - STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION - PLAN
250	TSF - STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN
DRG. NO.	DESCRIPTION

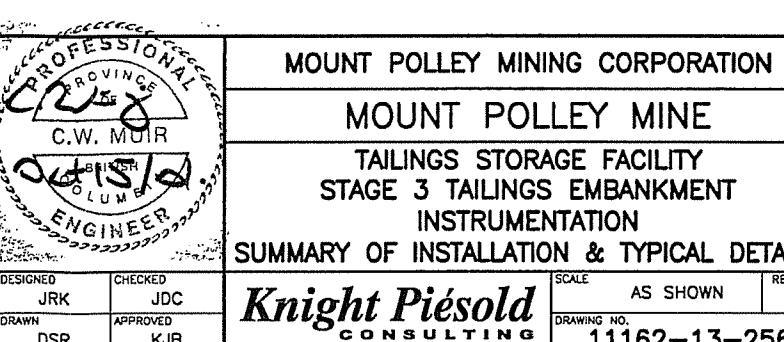
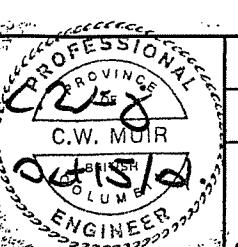
SUMMARY OF INSTRUMENTATION INSTALLATIONS				
PIEZOMETER ID	NORTHING	EASTING	ELEV.	DATE INSTALLED
A0-PE1-01	5 818 495.773	595 588.746	938.542	25/02/00
A0-PE2-01	5 818 502.850	595 585.398	928.03	09/03/98
A0-PE2-02	5 818 513.042	595 578.418	927.87	09/03/98
A1-PE1-01	5 818 486.650	595 595.060	912.99	27/08/96
A1-PE1-02	5 818 456.420	595 626.250	912.14	27/08/96
A1-PE1-03	5 818 476.822	595 602.380	917.17	22/10/96
A1-PE1-04	5 818 495.773	595 588.746	936.5	01/11/99
A2-PE1-01	5 818 446.550	595 628.010	912.89	26/08/98
A2-PE1-02	5 818 491.574	595 592.678	938.474	27/02/00
A2-PE1-03	5 818 423.31	595 663.2	909.3	19/07/00
A2-PE2-01	5 818 482.710	595 598.140	903.7	25/07/96
A2-PE2-02	5 818 482.710	595 598.140	909.8	25/07/96
A2-PE2-03	5 818 484.196	595 602.354	919.43	22/02/97
(A2-PE2-04)	5 818 487.510	595 595.995	926.07	22/02/97
A2-PE2-05	5 818 475.061	595 607.360	921.87	22/02/97
A2-PE2-06	5 818 453.926	595 648.458	898.03	21/06/98
A2-PE2-07	5 818 453.926	595 648.458	902.83	21/06/98
A2-PE2-08	5 818 447.045	595 627.758	907.57	23/06/98
A2-SM-09	NOT INSTALLED		942.5	
A2-SM-12	5 818 492.317	595 592.84	942.5	
B0-PE1-01	5 818 681.542	595 831.874	939.05	20/02/00
B0-PE2-01	5 818 688.820	595 832.067	930.00	06/03/98
B0-PE2-02	5 818 697.980	595 826.160	927.18	06/03/98
B1-PE1-01	5 818 632.550	595 787.910	917.27	10/09/96
B1-PE1-02	5 818 609.040	595 806.770	915.95	10/09/96
B1-PE1-03	5 818 622.780	595 797.260	918.69	22/10/96
B2-PE1-01	5 818 594.940	595 811.260	916.272	26/08/98
B2-PE1-02	5 818 676.310	595 836.050	939.536	20/02/00
B2-PE1-03	5 818 572.78	595 847.27	914.1	19/07/00
B2-PE2-01	5 818 628.270	595 787.880	902.00	25/07/96
B2-PE2-02	5 818 627.470	595 790.660	909.50	25/07/96
B2-PE2-03	5 818 636.530	595 786.970	921.00	22/10/96
(B2-PE2-04)	5 818 626.940	595 794.190	921.00	22/10/96
B2-PE2-05	5 818 619.014	595 799.804	921.70	14/03/97
B2-PE2-06	5 818 595.767	595 810.605	914.59	23/06/98
B2-SM-10	NOT INSTALLED		942.5	
B2-SM-13	5 818 643.472	595 793.692	942.54	
S101-1	5 818 463.54	595 666.536	916.923	
S101-2	5 818 492.020	595 689.928	918.152	

SUMMARY OF INSTRUMENTATION INSTALLATIONS (con't)				
PIEZOMETER ID	NORTHING	EASTING	ELEV.	DATE INSTALLED
C0-PE1-01	5 818 408.969	595 469.750	939.267	26/02/00
(C0-PE2-01)	5 818 414.319	595 471.099	927.80	09/03/98
(C0-PE2-02)	5 818 426.495	595 463.101	927.48	09/03/98
C1-PE1-01	5 818 410.500	595 496.070	914.70	28/09/96
C1-PE1-02	5 818 387.690	595 482.400	916.60	22/10/96
C1-PE1-04	5 818 351.420	595 509.060	914.31	03/04/98
C2-PE1-01	5 818 367.670	595 508.900	915.016	26/08/98
C2-PE1-02	5 818 404.117	595 473.754	939.26	26/02/00
C2-PE1-03	5 818 327.18	595 530.51	912.6	12/01/00
(C2-PE2-01)	5 818 392.410	595 478.240	907.50	25/07/96
C2-PE2-02	5 818 392.410	595 478.240	910.50	25/07/96
C2-PE2-03	5 818 399.106	595 478.824	920.97	12/02/97
C2-PE2-05	5 818 402.343	595 475.326	924.84	12/02/97
C2-PE2-06	5 818 359.734	595 513.663	906.84	18/06/98
C2-PE2-07	5 818 359.734	595 513.663	912.28	18/06/98
C2-PE2-08	5 818 367.087	595 509.351	914.03	19/06/98
C2-SM-11	NOT INSTALLED		942.5	
C2-SM-14	5 818 398.488	595 468.018	942.54	
D1-PE1-02	5 819 742.03	595 353.980	928.76	30/01/98
D1-PE1-03	5 819 774.953	595 307.851	933.323	20/07/01
(D2-PE1-01)	5 819 775.449	595 310.522	930	26/08/98
D2-PE2-01	5 819 756.360	595 316.210	931.00	15/12/96
D2-PE2-02	5 819 791.103	595 333.275	922	22/06/98
D2-SM-15	5 819 749.019	595 299.627	942.421	04/10/01
E2-PE2-01	5 818 307.454	595 435.983	908	17/06/98
E2-PE2-02	5 818 307.454	595 435.983	913	17/06/98
G1-PE1-01	5 818 9665.212	595 012.935	933.19	20/07/01
G2-SM-16	5 819 922.045	595 042.824	942.643	04/10/01
H1-PE1-01	5 819 517.62	595 667.86	936.8	20/07/01
H2-SM-17	5 810 528.085	595 628.730	942.342	04/10/01

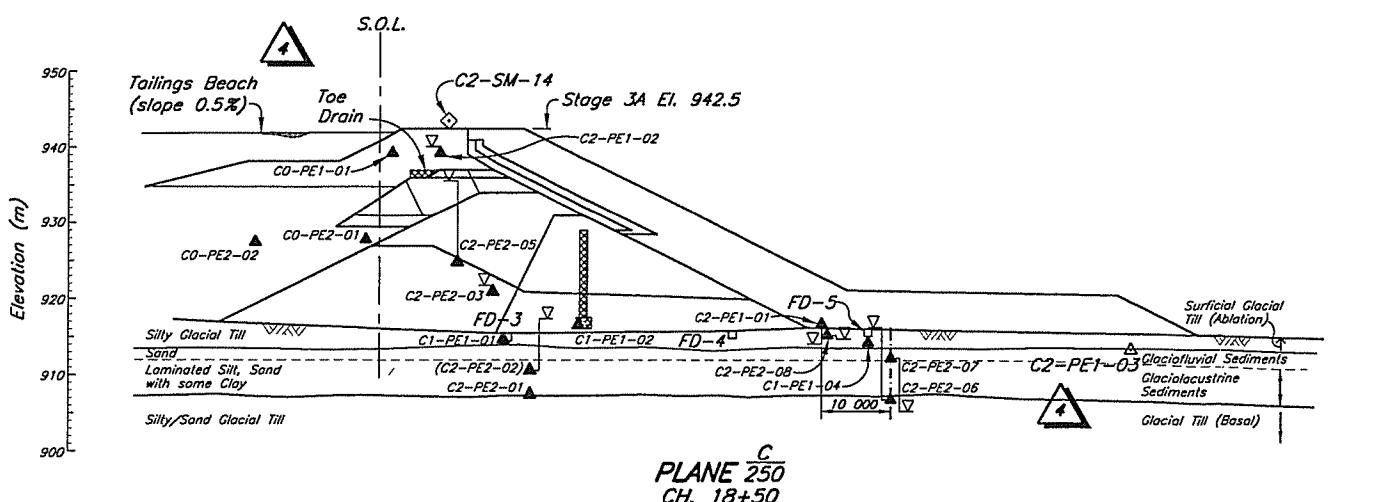
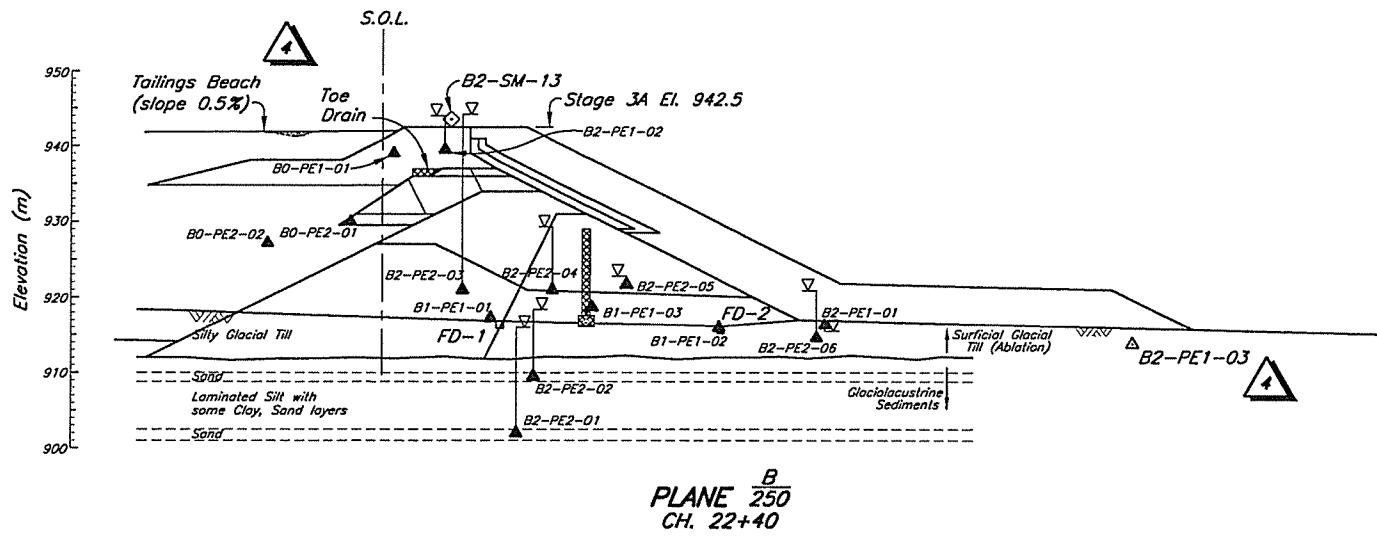
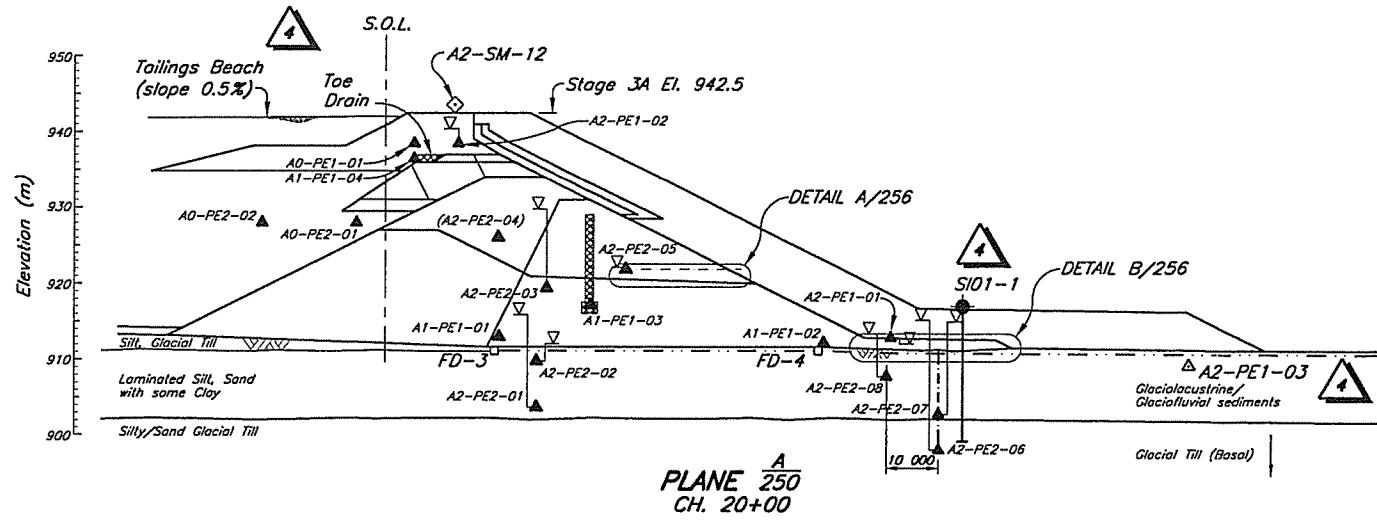
() Piezometer no longer functioning.

NOTES

1. All dimensions in millimetres with elevations in metres, unless noted otherwise.
 2. Piezometer leads extended as directed by the Engineer.
 3. Seepage cutoffs placed at 5 m intervals with 10% bentonite added to fine grained till backfill.



Vancouver B.C. CAD FILE: M:\11162\13\Acad\Draw\015\015 1-20 Plot 1-1(PS) Oct 10, 2001 lam



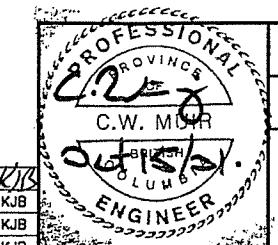
LEGEND

- Water level readings Apr. 21, 2001
- ▲ A1-PE1-01 Previously installed Piezometer
- ▲ A2-PE2-06 New Stage 3 Piezometer
- ◊ A2-SM-01 New Embankment Survey Monument
- S101-1 Slope Inclinometer

NOTES

- Piezometers are vibrating wire type, SINCA Model 52611030 and RST Model 45005-0100 with a pressure rating of 100 psi or equivalent, connected to a readout panel via standard non-vented direct burial cable.
- Piezometer leads extended as directed by the Engineer.
- Zone fill materials and drain pipes not shown in drawing for clarity. For Details see Drg. 215.
- See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details and General Notes.
- All dimensions in millimetres with elevations in metres, unless noted otherwise.
- No work was completed at the Main Embankment during Stage 3B construction.

Scale 10 0 10 20 30 40 50 m



MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 1 OF 2

4	05OCT'01	STAGE 3A/3B - AS CONSTRUCTED	CWM	TAM	JRK
3	13SEPT'01	ISSUED FOR 2000 & 2001 ANNUAL INSPECTION REPORT	CWM	DSR	JLG KJB
2	08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK KJB
1	26JAN'01	STAGE 3B - CREST ELEVATION 945	JRK	AW	JMTW KJB
0	02JUN'00	ISSUED FOR CONSTRUCTION	JRK	JDC	KJB
		DESCRIPTION	DESIGN	DRAWN	CHK'D APP'D
		REV.	DATE		

REVISIONS

REVISIONS

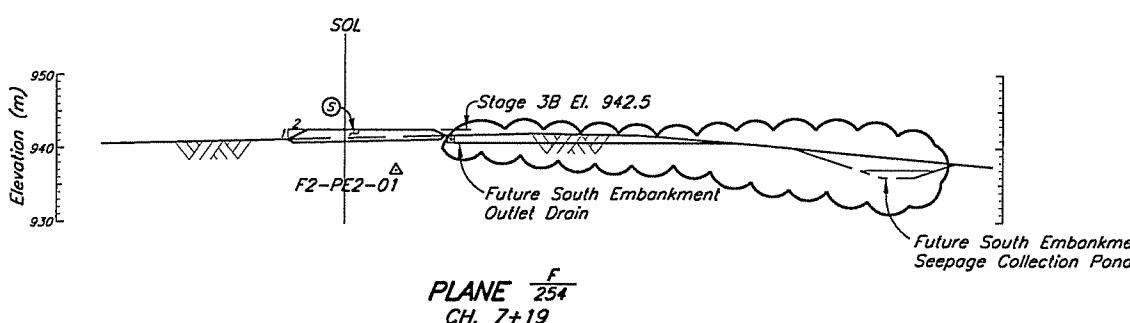
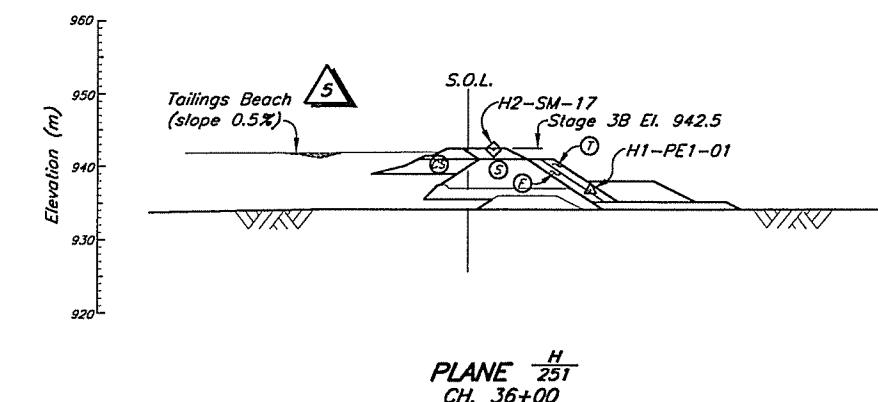
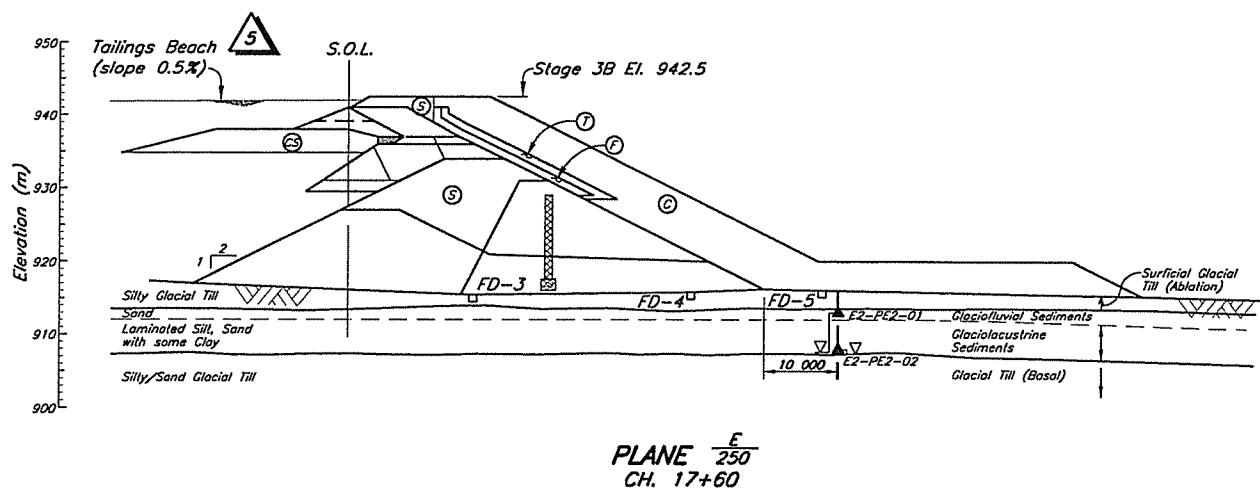
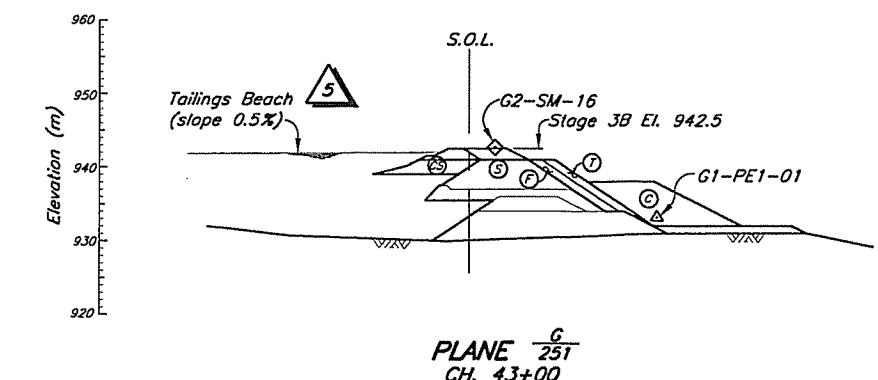
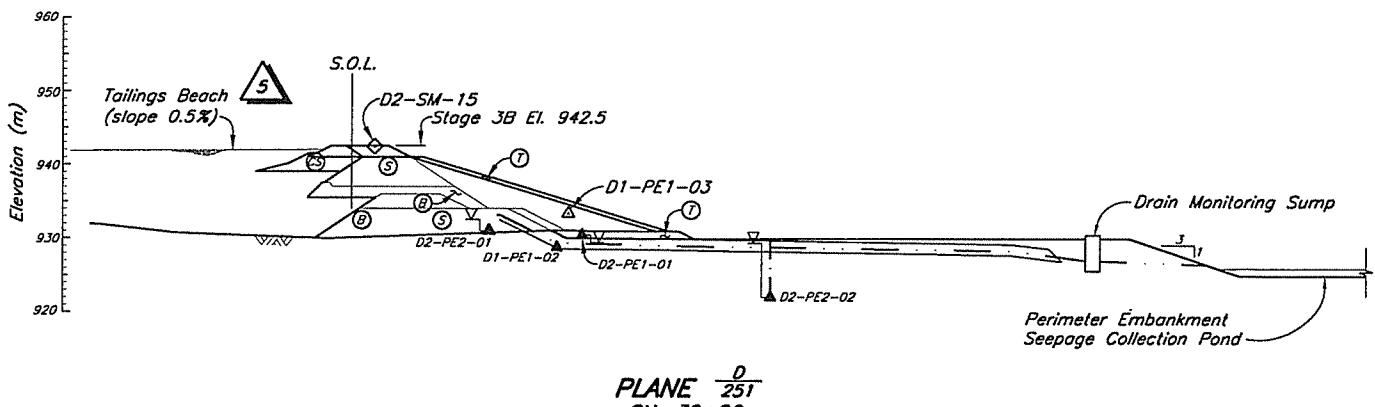
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259	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SECTIONS 2 OF 2							
256	TSF - STAGE 3 TAILINGS EMBANKMENT - INSTRUMENTATION - SUMMARY OF INSTALLATION & TYP. DETAILS							
250	TSF - STAGE 3 MAIN EMBANKMENT - INSTRUMENTATION - PLAN							

REFERENCE DRAWINGS

REVISIONS

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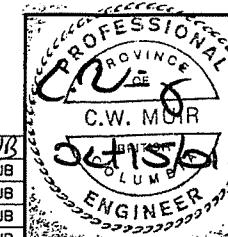
SCALE AS SHOWN REVISION 4
DRAWING NO. 11162-13-258



LEGEND

- ▽ Water level readings Apr. 21, 2001
- ▲ A1-PE1-01 Previously installed Piezometer
- △ A2-PE2-06 New Stage 3 Piezometer
- ◊ A2-SM-01 New Embankment Survey Monument

Scale 10 0 10 20 30 40 50 m



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

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DRG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REFERENCE DRAWINGS															

5	05OCT'01	STAGE 3A/3B - AS CONSTRUCTED	CWM	TAM	ABW
4	14SEPT'01	ISSUED FOR 2000 & 2001 ANNUAL INSPECTION REPORT	CWM	TAM	XJG KJB
3	08MAY'01	ISSUED FOR STAGE 3B TENDER	CWM	DSR	JRK KJB
2	26JAN'01	STAGE 3B - CREST ELEVATION 945	JRK	AW	JMTW KJB
1	20OCT'00	PERIMETER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW KJB
0	2JUN'00	ISSUED FOR CONSTRUCTION	JRK	TAM	ABW KJB

DESIGNED BY: JRK CHECKED BY: ABW
DRAWN BY: DSR APPROVED BY: KJB

SCALE AS SHOWN REVISION 5
DRAWING NO. 11162-13-259

APPENDIX A

INVESTIGATIONS

Table A1.1 r0 Borrow Areas 2, 3 and 5 Materials Investigation
Summary – April 2001

Figure A1 r1 Borrow Area No. 2 – Plan

Figure A2 r1 Borrow Area No. 2 – Geologic Cross Sections –
Sheet 1 of 3

Figure A3 r1 Borrow Area No. 2 – Geologic Cross Sections –
Sheet 2 of 3

Figure A4 r1 Borrow Area No. 2 – Geologic Cross Sections –
Sheet 3 of 3

Overburden Logs

TABLE A1.1

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**BORROW AREAS 2, 3 AND 5 MATERIALS INVESTIGATION SUMMARY
APRIL, 2001**

Date Revised: 06-Apr-01
Date Printed: 06-Apr-01

M:\11162\14\Report\3\3-tbl\A1-1.XLS\Table A1.1_r0

Drillhole Number	Depth (ft)	Sample (ft)	Field Moisture (%)		Material Description	
DH01-01	0-5	DH01-01A (10)	12.1		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	5-17				Medium brown silt and sand till, some gravel and clay, firm, very moist, plastic	
	17-21				Grey silt and sand till, some gravel and clay, firm, very moist, plastic	
	21-39				Grey silt and sand till, some gravel and clay, firm to stiff, moist, plastic	
DH01-02	0-10	DH01-02A (10)	12.6		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	10-15	DH01-02B (20)	17.1		Medium brown silt and sand till, some gravel and clay, firm, very moist, plastic	
	15-22				Grey silt and sand till, some gravel and clay, soft, very moist to wet, plastic	
	22-25	DH01-02C (30)	12.6		Grey silty sand till, some gravel, trace clay, firm, moist, non plastic, non cohesive	
	25-35				Grey silt and sand till, some gravel and clay, firm, very moist, plastic	
	35-38				Grey gravelly silt and sand till, some clay, firm, very moist, plastic	
DH01-03	0-11	DH01-03A (10)	10.9		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	11-17				Medium brown silt and sand till, some gravel and clay, firm, very moist, plastic	
	17-21				Grey silt and sand till, some gravel and clay, soft, very moist to wet, plastic	
	21-27				Grey silt and sand till, some gravel and clay, firm to stiff, moist, plastic	
	27-30				Grey silty sand till, some gravel, trace clay, firm, moist, non plastic, non cohesive	
	30-35				Grey gravelly silt and sand till, some clay, firm, very moist, plastic	
	35-40				Grey gravelly silt and sand till, some clay, stiff, moist, plastic	
DH01-04	0-8				Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	8-10				Medium brown silt and sand till, some gravel and clay, firm, moist, plastic	
	10-25				Grey silt and sand till, some gravel and clay, firm, very moist, plastic	
	25-33				Grey silty sand till, some gravel, trace clay, firm, moist, non plastic	
DH01-05	0-12				Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	12-15				Grey silt and sand till, some gravel and clay, firm, very moist, plastic	
	15-20				Grey silt and sand till, some gravel and clay, firm, very moist, plastic	
	20-27				Grey gravelly silt and sand till, some clay, stiff, moist, plastic	
	27-31				Grey silty sand till, some gravel, trace clay, firm, very moist, non plastic	
	31-35				Grey silt and sand till, some gravel and clay, firm, very moist, plastic	
	35-37				Grey silt and sand till, some gravel and clay, firm, wet, plastic	
DH01-06	0-16	DH01-06A (10)	10.7		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	16-34	Grey silt and sand till, some gravel and clay, stiff, moist, plastic				
DH01-07	0-17	DH01-07B (20)	10.9		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	17-36				Grey silt and sand till, some gravel and clay, stiff, moist, plastic	
DH01-08	0-17	DH01-08 C (30)	11.2		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	17-30				Grey silt and sand till, some gravel and clay, stiff, moist, plastic	
DH01-09	0-16	DH01-09A (10)	12.2		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	16-33	Grey silt and sand till, some gravel and clay, stiff, moist, plastic				
DH01-10	0-6	DH01-10B (20)	12.7		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic	
	6-10				Medium brown silty sand till, some gravel, trace clay, stiff, moist, non plastic	
	10-14				Medium brown silty sand till, some gravel, trace clay, stiff, very moist, non plastic	
	14-16				Varved fine sand and coarse silt seams, very thin (1-3 mm), firm, very moist	
	16-20				Grey silt and sand till, some gravel and clay, stiff, very moist, plastic	
	20-23				Grey silty sand till, some gravel, trace clay, firm, very moist, non plastic	
	23-32.5				Grey silty sand till, some gravel, trace clay, stiff, moist, non plastic	

TABLE A1.1

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**BORROW AREAS 2, 3 AND 5 MATERIALS INVESTIGATION SUMMARY
APRIL, 2001**

Date Revised: 06-Apr-01
Date Printed: 06-Apr-01

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Drillhole Number	Depth (ft)	Sample (ft)	Field Moisture (%)		Material Description
DH01-11	0-10 10-15 15-34	DH01-11C (30)	11		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic Medium brown silt and sand till, some gravel and clay, firm, very moist, plastic Grey silt and sand till, some gravel and clay, firm, very moist, plastic
DH01-12	0-10 10-15 15-25 25-33	DH01-12A (10) DH01-12B (20)	11.9 20.3		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic Medium brown silt and sand till, some gravel and clay, firm, very moist, plastic Grey silt and sand till, some gravel and clay, soft, very moist to wet, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic
DH01-13	0-16 16-29	DH01-13A (10)	10.3		Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic Grey silt and sand till, some gravel and clay, stiff, moist, plastic
DH01-14	0-12 12-15 15-22 22-26 26-28	DH01-14A (10)	12.1		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silt and sand till, trace gravel, some clay, firm, very moist, plastic Grey silt and sand till, some gravel and clay, stiff, moist, plastic Grey silt and sand till, some gravel and clay, stiff, very moist, plastic Grey silt and sand till, some gravel and clay, stiff, dry, plastic
DH01-15	0-20 20-28	DH01-15A (10)	8.8		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, some gravel and clay, stiff, moist, plastic
DH01-16	0-15 15-32	DH01-16B (20)	12.9		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, some gravel and clay, stiff, moist, plastic
DH01-17	0-17 17-26	DH01-17A (10)	11		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, some gravel and clay, stiff, moist, plastic
DH01-18	0-17 17-24	DH01-18A (10)	12.1		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silt and sand till, some gravel and clay, stiff, moist, plastic
DH01-19	0-17 17-23	DH01-19B (20)	11		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, some gravel and clay, stiff, very moist, plastic
DH01-20	0-15 15-22	DH01-20A (10)	12.4		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic
DH01-21	0-15 15-25	DH01-21B (20)	10.3		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic
DH01-22	0-5 5-15 15-20 20-25				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Brown glaciofluvial dense gravelly sand, some silt, below Zone S coarse limit Yellow brown sand, some silt, trace gravel, dry Yellow brown glaciolacustrine fine sand and coarse silt, dry
DH01-23	0-15 15-18 18-25	DH01-23A (10)	11.3		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Brown glaciofluvial dense sand and gravel, some silt, below Zone S coarse limit Yellow brown glaciolacustrine fine sand and coarse silt, dry
DH01-24	0-15 15-20	DH01-24A (10)	11.9		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Yellow brown glaciolacustrine fine sand and coarse silt, dry
DH01-25	0-15 15-20 20-25	DH01-25A (10)	10.5		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown medium to fine sand, trace silt and gravel, medium dense, dry
DH01-26	0-15 15-20 20-30	DH01-26A (10) DH01-26B (20)	11.1 10.2		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, dry, plastic Yellow brown glaciolacustrine fine sand and coarse silt, dry

TABLE A1.1

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**BORROW AREAS 2, 3 AND 5 MATERIALS INVESTIGATION SUMMARY
APRIL, 2001**

Date Revised: 06-Apr-01
Date Printed: 06-Apr-01

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Drillhole Number	Depth (ft)	Sample (ft)	Field Moisture (%)		Material Description
DH01-27	0-2 2-20 20-30				Medium brown silt Brown glacioluvial sand and gravel, trace silt, moist, dense, water seam at 15' Yellow brown glaciolacustrine fine sand and coarse silt, wet from water above
DH01-28	0-2 2-5 5-10 10-25				Medium brown silt Brown glacioluvial sand and gravel, trace silt, moist, dense Brown silt and sand, some gravel, medium dense, dry to moist, non plastic Yellow brown glaciolacustrine fine sand and coarse silt, trace gravel, dry
DH01-29	0-5 5-10 10-15	DH01-29A (10)	8		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Brown gravelly silty sand till, medium dense, non plastic, non cohesive, moist Brown gravelly sand, some silt and clay, below coarse limit of Zone S
DH01-30	0-5 5-10 10-20 20-25	DH01-30A (10)	10.3		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silt and sand till, some gravel, trace clay, stiff, moist, non plastic Brown gravelly sand, some silt and clay, below coarse limit of Zone S Brown glacioluvial gravelly sand, trace silt, moist, dense
DH01-31	0-5 5-10 10-16 16-20	DH01-31A (10)	10.7		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silt and sand till, trace gravel, trace clay, stiff, moist, non plastic Grey silt and sand till, trace gravel, trace clay, stiff, moist, non plastic Light brown glacioluvial sand, some gravel, trace silt, dry, medium dense
DH01-32	0-5 5-16 16-25	DH01-32A (10)	10.2		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silty sand till, some gravel, trace clay, stiff, moist to dry, non plastic Brownish red glacioluvial sand, trace to some gravel and silt, dry, medium dense
DH01-33	0-5 5-10 10-24 24-25	DH01-33B (20)	9.8		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silty sand till, some gravel, trace clay, stiff, moist to dry, non plastic Brownish green silty sand till, trace gravel, trace clay, stiff, moist, non plastic Yellow brown glaciolacustrine fine sand and coarse silt, dry
DH01-34	0-5 5-10				Brownish green silt and clay, trace sand, stiff, moist, plastic Medium brown glaciolacustrine silt and clay, stiff, moist, plastic
DH01-35	0-5 5-10				Brownish green silt and clay, trace sand, stiff, moist, plastic Medium brown glaciolacustrine silt and clay, stiff, moist, plastic
DH01-36	0-6 6-10				Greenish brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Brown glaciolacustrine sand and silt, dry
DH01-37	0-5 5-10				Light brown silt, some sand, trace clay, stiff, moist, plastic Light brown glacioluvial sandy silty gravel, dry, dense
DH01-38	0-5 5-15				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Light brown medium to fine sand, trace silt, moist, medium dense
DH01-39	0-5 5-12 12-21 21-27 27-30	DH01-39A (10) DH01-39B (20)	8.6 8.4		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown sand till, some gravel and silt, trace clay, stiff, moist, non plastic Medium brown gravelly sand till, some silt, trace clay, stiff, moist, non plastic Light brown sand, some gravel, trace silt, medium dense, moist Brown glacioluvial sand and silt, medium dense, moist
DH01-40	0-15 15-18 18-25	DH01-40A (10)	11.4		Medium brown silt and sand till, some gravel, trace clay, firm, moist, non plastic Yellow brown glaciolacustrine fine sand and coarse silt, dry Brown glaciolacustrine fine sand, dry
DH01-41	0-13	DH01-41A (10)	10.4		Medium brown silt and sand till, some gravel, trace clay, firm, moist, non plastic

TABLE A1.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

BORROW AREAS 2, 3 AND 5 MATERIALS INVESTIGATION SUMMARY
APRIL, 2001

Date Revised: 06-Apr-01
Date Printed: 06-Apr-01

M:\11162\14\Report3\3-lbl\A1-1.XLS]Table A1.1_r0

Drillhole Number	Depth (ft)	Sample (ft)	Field Moisture (%)		Material Description
	13-20 20-25				Yellow brown glaciolacustrine silt, dry Brown glaciolacustrine fine sand, dry
DH01-42	0-14 14-18	DH01-42A (10)	11.5		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic
DH01-43	0-11 11-15 15-20 20-25	DH01-43A (10)	10		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, some gravel, trace clay, stiff, moist, non plastic Yellow brown glaciolacustrine fine sand and coarse silt, dry Light brown sandy silt, some gravel, dry
DH01-44	0-6 6-10				Greenish brown silt, some sand and clay, firm to stiff, very thin varves, moist Greenish brown gravelly sand, trace silt, trace clay, dense, moist
DH01-45	0-6 6-10				Greenish brown sandy silt, some clay, trace gravel, stiff, very thin varves, moist Red brown fine sand, trace silt, trace gravel, dense, dry
DH01-46	0-6 6-15				Greenish brown sandy silt, some clay, trace gravel, stiff, very thin varves, moist Yellow brown fine sand, trace silt, trace gravel, dry
DH01-47	0-6 6-15				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Light brown fine sand, trace silt, dry
DH01-48	0-2 2-5				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Yellow brown fine sand, some silt, trace gravel, dry
DH01-49	0-2 2-5				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Yellow brown fine sand, some silt, trace gravel, dry
DH01-50	0-6 6-18 18-20				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Red brown gravelly sand till, trace to some silt, trace clay, medium dense, moist Light brown glaciolacustrine sand, trace silt, trace gravel, dry
DH01-51	0-5 5-15 15-20	DH01-51A (10)	10.3		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silty sand till, some gravel, trace clay, stiff, moist, non plastic Light brown glaciolacustrine sand and silt, trace gravel, dry
DH01-52	0-2 2-20				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Yellow brown fine sand, some silt, trace gravel, dry
DH01-53	0-5 5-10 10-15				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silty sand till, trace gravel, trace clay, stiff, moist to dry, non plastic Light brown glaciolacustrine sand, some silt, trace gravel, dry
DH01-54	0-3 3-15				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Light brown glaciolacustrine sand, trace silt, trace gravel, dry
DH01-55	0-5 5-10 10-15 15-20				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silty sand till, some gravel, trace clay, stiff, moist, non plastic Light brown glaciolacustrine sandy silt, dry Light brown glaciolacustrine silt, trace sand, trace clay, dry
DH01-56	0-5 5-15 15-20				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silty sand till, some gravel, trace clay, stiff, moist, non plastic Light brown glaciolacustrine sand and silt, dry
DH01-57	0-6 6-15				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Light brown glaciolacustrine sand, trace silt, trace gravel, dry
DH01-58	0-10 5 10-15				Medium brown silt and sand till, trace gravel, some clay, soft to firm, wet, plastic Water seam Light brown glaciolacustrine sand, trace silt, trace gravel, dry
DH01-59	0-10 10-15 15-20	DH01-59A (10)	12.1		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Medium brown silt and sand till, some gravel, trace clay, stiff, moist, non plastic Light brown glaciolacustrine silt, trace sand, trace gravel, dry
DH01-60	0-21 21-25	DH01-60B (20)	10.8		Medium brown silt and sand till, some gravel, trace clay, stiff, moist, non plastic Light brown glaciolacustrine silt, some sand, dry
DH01-61	0-15 15-20 20-25	DH01-61A (10)	11.5		Medium brown silt and sand till, trace gravel, trace clay, stiff, moist, non plastic Grey silt and sand till, trace gravel, trace clay, stiff, moist, non plastic Light brown glaciolacustrine sandy silt, trace gravel, dry
DH01-62	0-5	DH01-62A (10)	10.2		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic

TABLE A1.1

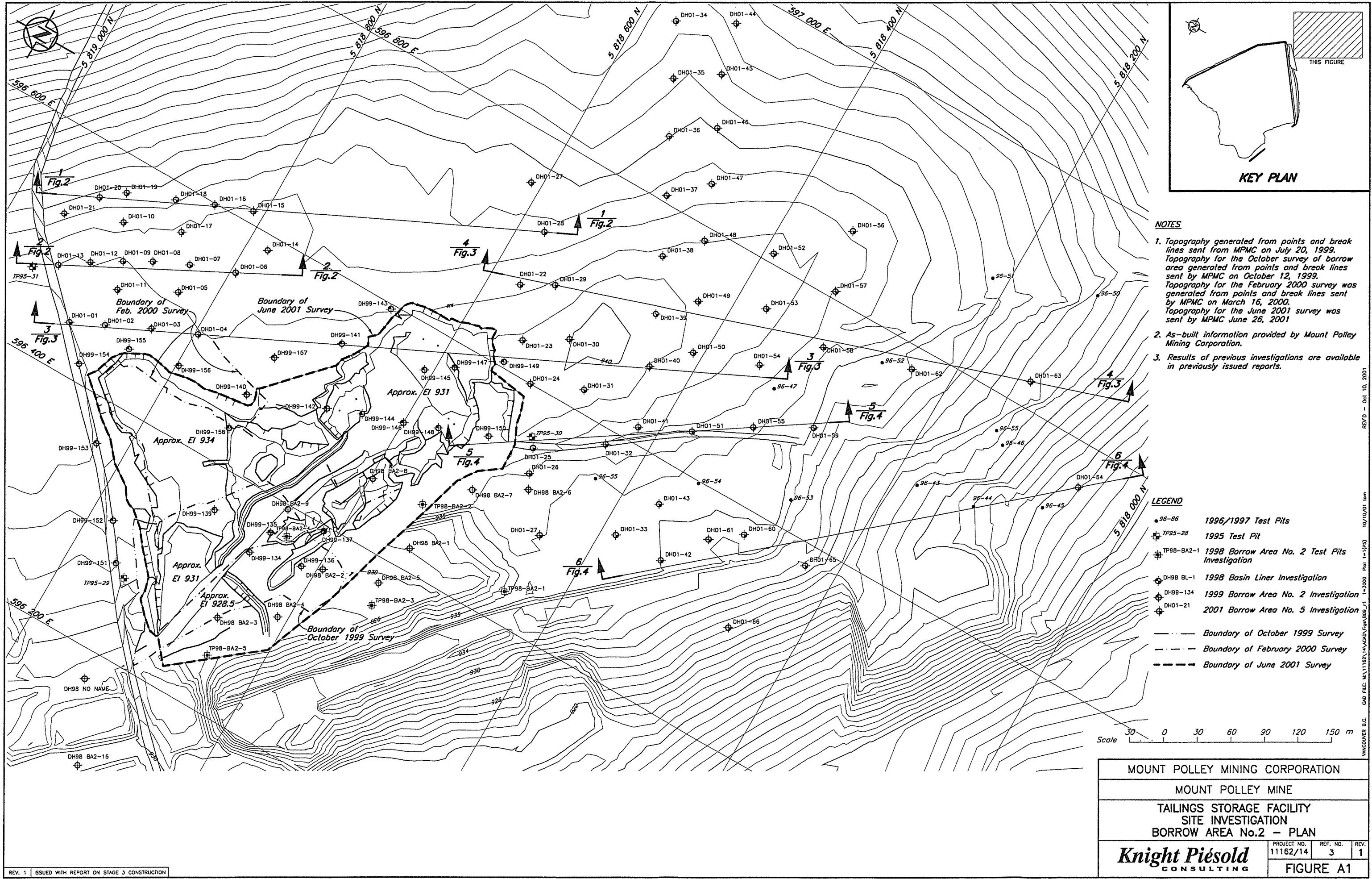
**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

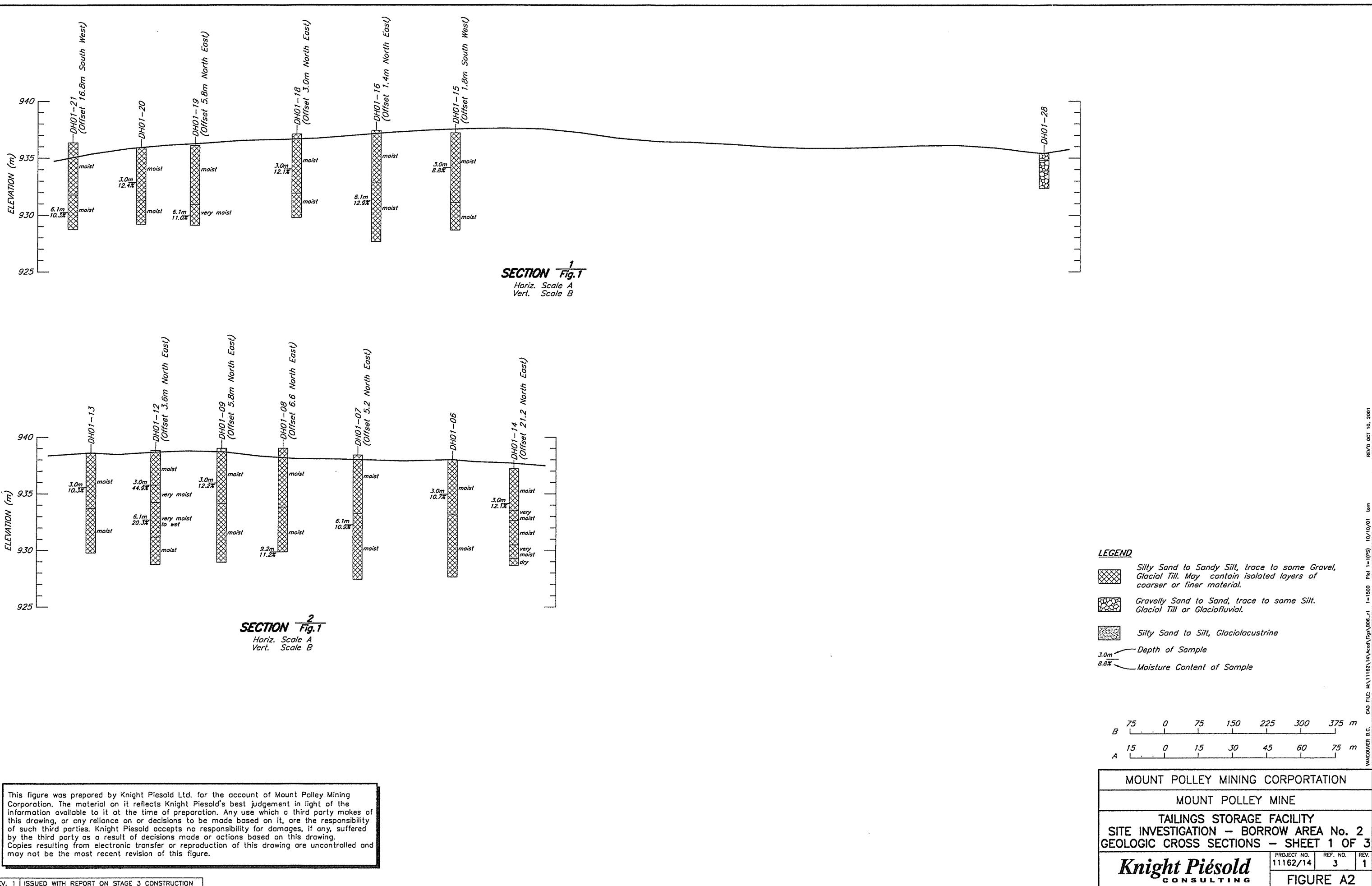
**BORROW AREAS 2, 3 AND 5 MATERIALS INVESTIGATION SUMMARY
APRIL, 2001**

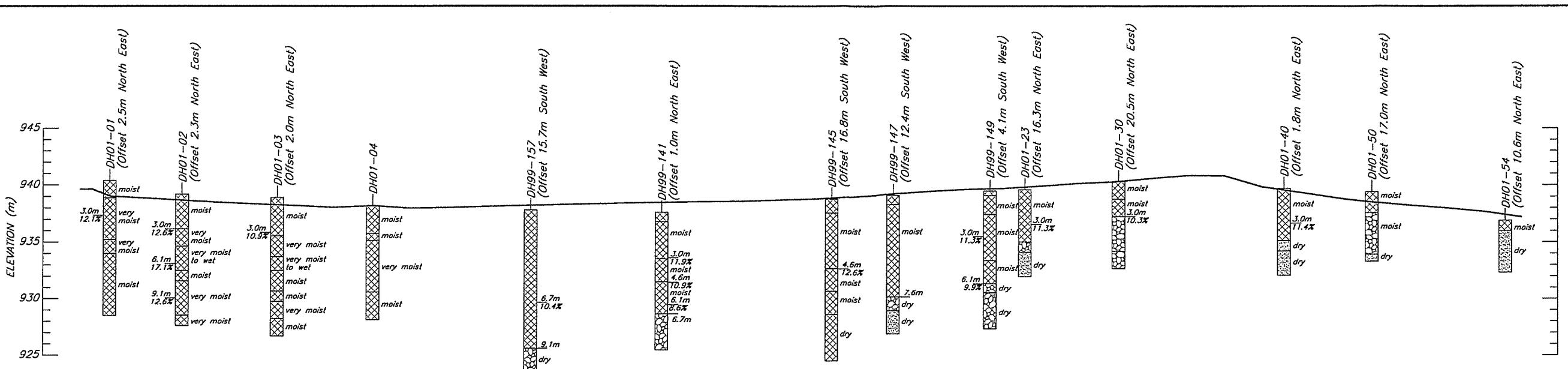
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Date Printed: 06-Apr-01

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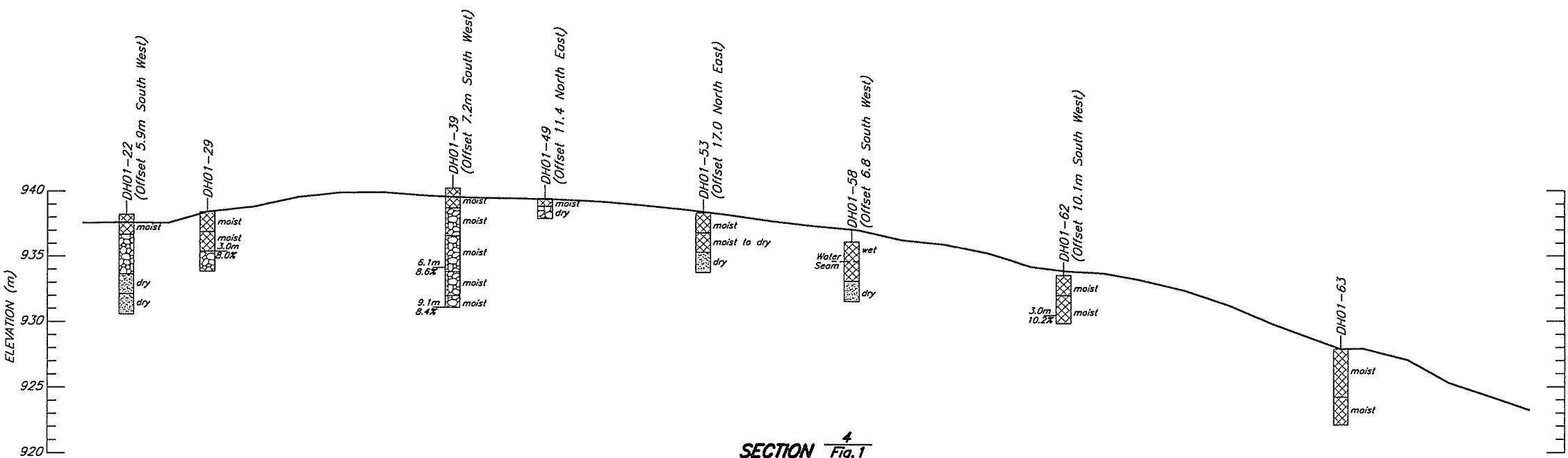
Drillhole Number	Depth (ft)	Sample (ft)	Field Moisture (%)		Material Description
	5-13				Medium brown silt and sand till, some gravel, trace clay, stiff, moist, non plastic
DH01-63	0-12 12-19				Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, some gravel, trace clay, stiff, moist, non plastic
DH01-64	0-5 5-14	DH01-64A (10)	10.7		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic
DH01-65	0-5 5-19	DH01-65A (10)	13.1		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic
DH01-66	0-12 12-16	DH01-66A (10)	12		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic
DH01-67	0-10 10-15 15-17 17	DH01-67A (10)	13.9		Medium brown silt and sand till, trace gravel, some clay, stiff, moist, plastic Grey silt and sand till, trace gravel, some clay, stiff, moist, plastic Red grey silt and sand till, trace gravel, some clay, stiff, moist, plastic Bedrock
DH01-68	0-3 3-9 9				Medium brown silt and sand till, trace gravel, some clay, firm, wet, plastic Red grey silt and sand till, trace gravel, some clay, stiff, moist, plastic Bedrock
DH01-69	0-5 5				Red grey silty sand till, trace gravel, trace clay, firm, very moist to wet, non plastic Bedrock
DH01-70	0-2 2-6 6-10 10				Medium brown silt and sand till, trace gravel, some clay, firm, wet, plastic Medium brown silt and sand till, trace gravel, some clay, firm, very moist, plastic Brownish red silt and sand till, trace gravel, some clay, firm, moist, plastic Bedrock
DH01-71	0-4 4				Brownish red silt and sand till, trace gravel, some clay, firm, moist, plastic Bedrock
DH01-72	0-5 5				Brownish red sandy silt till, trace gravel, some clay, stiff, moist, plastic Bedrock
DH01-73	0-9 9				Brownish red sandy silt till, trace gravel, some clay, stiff, moist, plastic Bedrock
DH01-74	0-13	DH01-74A (10)	14.2		Brownish red sandy silt till, trace gravel, some clay, stiff, moist, plastic
DH01-75	0-5 5-17	DH01-75A (10)	14.6		Medium brown sandy silt till, trace gravel, some clay, very stiff, moist, plastic Grey sandy silt till, trace gravel, some clay, very stiff, moist, plastic
DH01-76	0-15 5				Medium brown to grey sandy silt till, trace gravel, some clay, stiff, moist, plastic Water seam
DH01-77	0-12	DH01-76A (10)	17.5		Medium brown sand and silt till, trace gravel, some clay, firm, very moist, plastic
DH01-78	0-10 10-14				Medium brown sand and silt till, trace gravel, some clay, firm, very moist, plastic Grey sand and silt till, trace gravel, some clay, firm, very moist, plastic
DH01-79	0-5 4 5				Green brown sand and silt till, trace gravel, some clay, soft, wet, plastic Water seam Bedrock
DH01-80	0-10 10-20				Green brown sand and silt till, trace gravel, some clay, firm, very moist, plastic Blue grey sand and silt till, trace gravel, some clay, stiff, moist, plastic







SECTION 3
Fig. 1



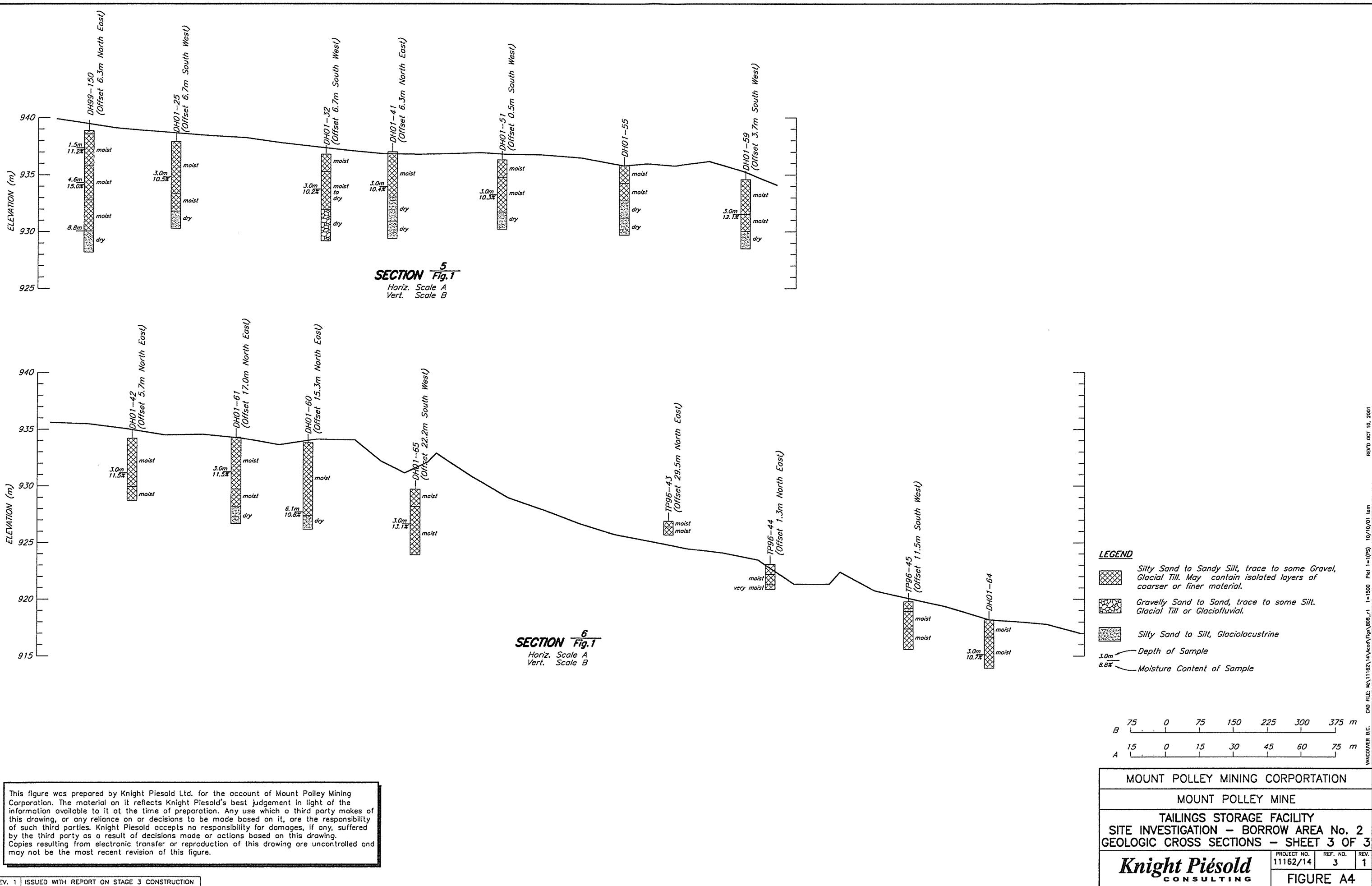
SECTION 4
Fig. 1

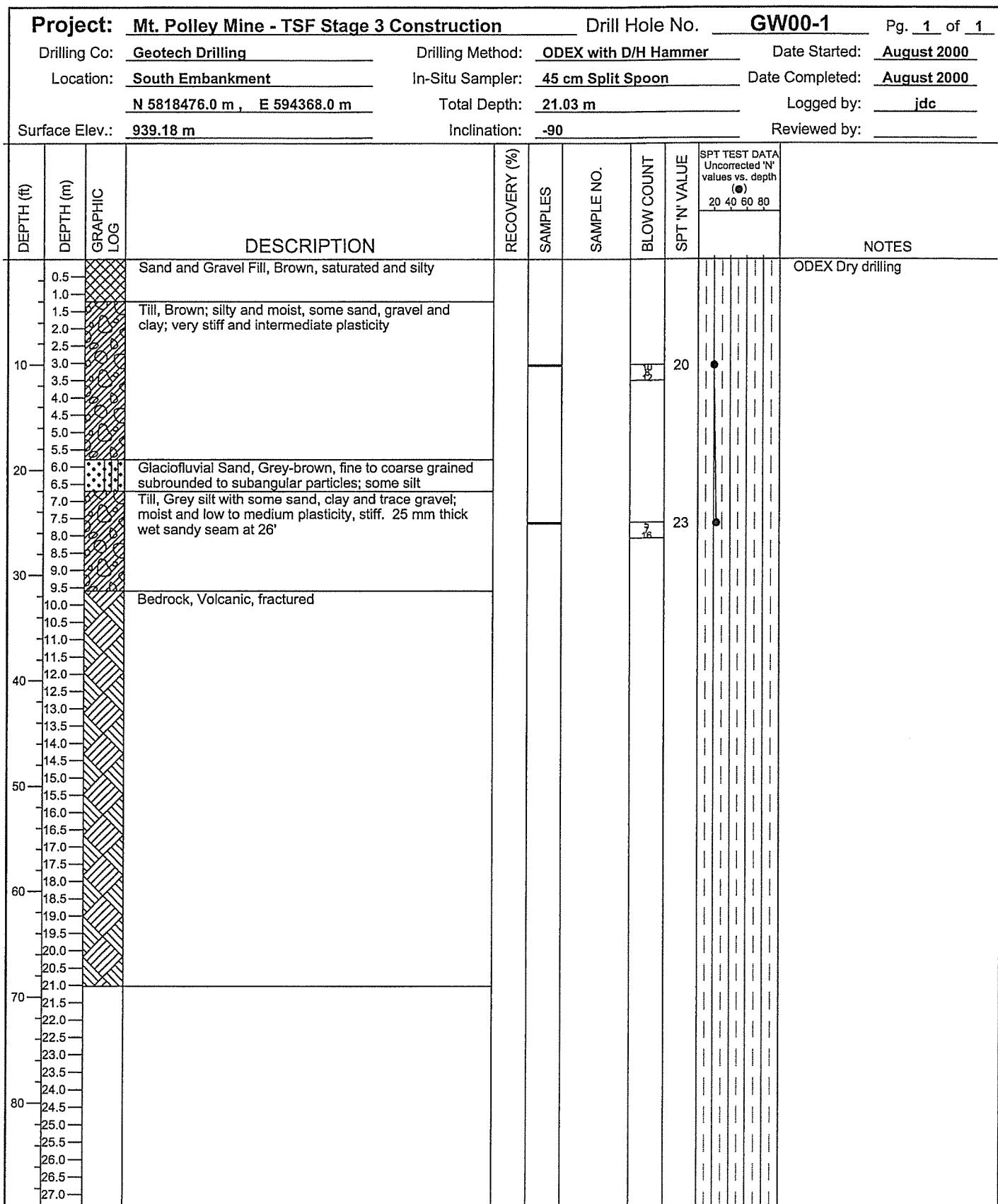
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REV. 1 ISSUED WITH REPORT ON STAGE 3 CONSTRUCTION

MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY MINE
 TAILINGS STORAGE FACILITY
 SITE INVESTIGATION - BORROW AREA No. 2
 GEOLOGIC CROSS SECTIONS - SHEET 2 OF 3





SOILS LOG DRILL.GPJ DRILL.GDT 7 Sep 01

Knight Piésold
CONSULTING

Mount Polley Mining Corporation
Overburden Log of GW00-1

Ref. No. 3 Rev. No. 0

Project Location

Mount Polley Mine

Project No. 11162/14

Fig.

A - 5

Project: Mt. Polley Mine - TSF Stage 3 Construction

Drill Hole No.: GW00-1a

Pg. 1 of 1

Hole Depth: 21.03 m Hole Diameter: 0.102 m

Date Started: 31-Aug-00 Date Completed: 31-Aug-00

Surface Elev: 939. m (Approx.) Well Diameter: 48.77 mm

Logged by: JDC Reviewed by: _____

Water Level Readings: Depth to Water / Water Elevation / Date Measured

Well 1; 1.90 m / 937.3 m / 4 Oct 01

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
2				
4				
6				
8				
10				
12				
14				
16				
18				
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66				
68				

WELL DRILL.GPJ DRILL.GDT 7 Sep 01

Knight Piésold CONSULTING

**Mount Polley Mining Corporation
Well Construction Details of GW00-1A**

Project Location

Mount Polley Mine

Ref. No. 3

Rev. No. 0

Project No.

Fig.

A-6

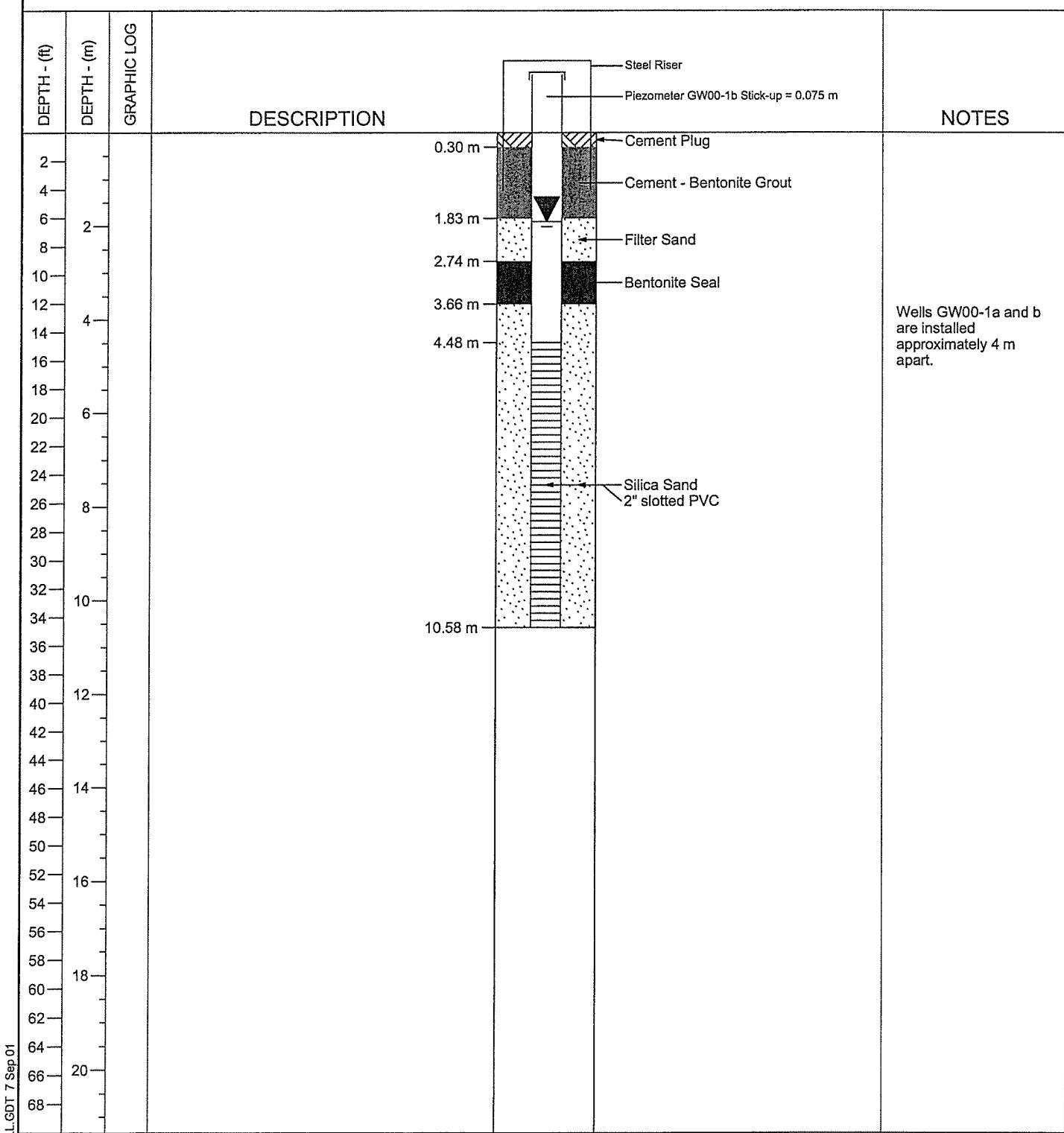
Project: Mt. Polley Mine - TSF Stage 3 Construction **Drill Hole No.:** GW00-1b Pg. 1 of 1

Hole Depth: 21.03 m Hole Diameter: 0.102 m Date Started: 31-Aug-00 Date Completed: 31-Aug-00

Surface Elev: 939. m (Approx.) Well Diameter: 48.77 mm Logged by: JDC Reviewed by: _____

Water Level Readings: Depth to Water / Water Elevation / Date Measured

Well 1: 1.90 m / 937.2 m / 4 Oct 01



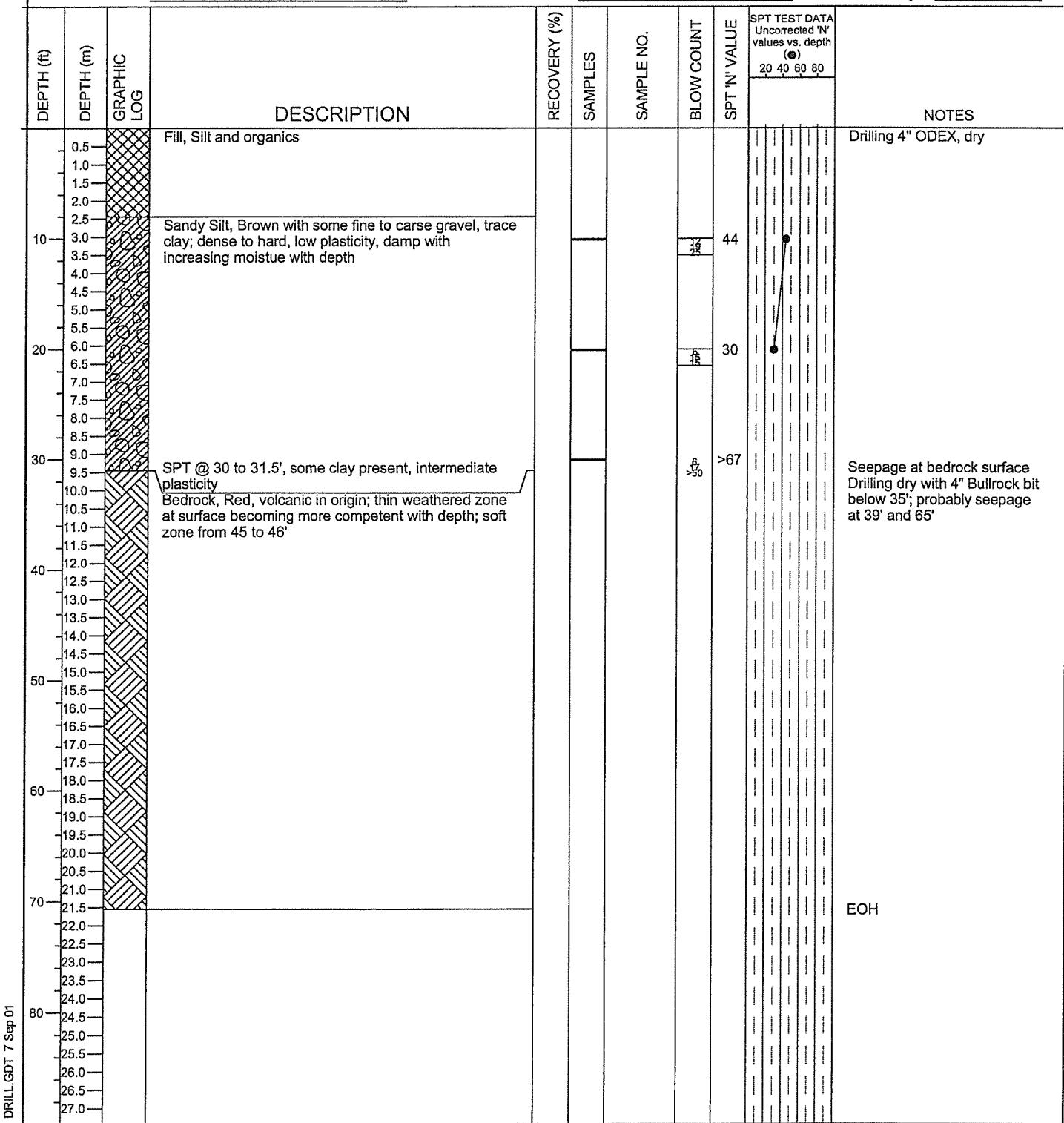
WELL DRILL.GPJ DRILL.GDT 7 Sep 01

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Mount Polley Mining Corporation
Well Construction Details of GW00-1B

Ref. No. 3 Rev. No. 0
Project Location Project No. Fig.
Mount Polley Mine 11162/14 A-7

Project:	Mt. Polley Mine - TSF Stage 3 Construction	Drill Hole No.	GW00-2	Pg. 1 of 1
Drilling Co:	Geotech Drilling	Drilling Method:	ODEX with D/H Hammer	Date Started: August 2000
Location:	South Embankment	In-Situ Sampler:	45 cm Split Spoon	Date Completed: August 2000
	N 5818337.5 m , E 594651.8 m	Total Depth:	21.55 m	Logged by: jdc
Surface Elev.:	943.40 m	Inclination:	-90	Reviewed by:



SOILS LOG DRILL.GPJ DRILL.GDT 7 Sep 01

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Mount Polley Mining Corporation
Overburden Log of GW00-2

Ref. No. 3 Rev. No. 0

Project Location

Mount Polley Mine

Project No.

11162/14

Fig.

A - 8

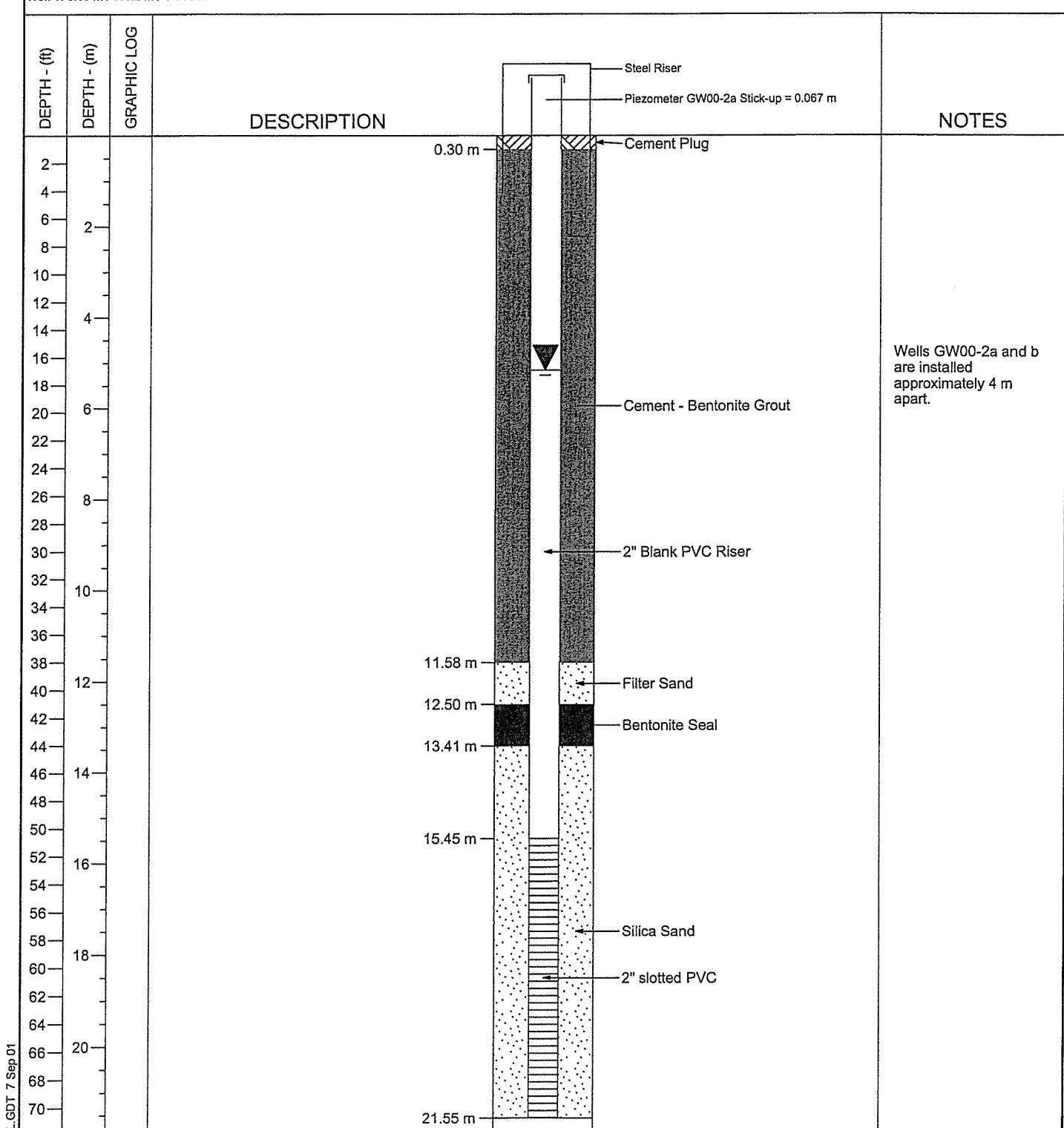
Project: Mt. Polley Mine - TSF Stage 3 Construction Drill Hole No.: GW00-2a Pg. 1 of 1

Hole Depth: 21.55 m Hole Diameter: 0.102 m Date Started: 30-Aug-00 Date Completed: 31-Aug-00

Surface Elev: 943. m (Approx.) Well Diameter: 48.77 mm Logged by: JDC Reviewed by: _____

Water Level Readings: Depth to Water / Water Elevation / Date Measured

Well 1: 5.15 m / 938.2 m / 4 Oct 01



WELL DRILL.GPJ DRILL.GDT 7 Sep 01

Knight Piésold
CONSULTING

Mount Polley Mining Corporation
Well Construction Details of GW00-2A

Ref. No. 3	Rev. No. 0
Project Location	Project No.
Mount Polley Mine	Fig.
11162/14	
A-9	

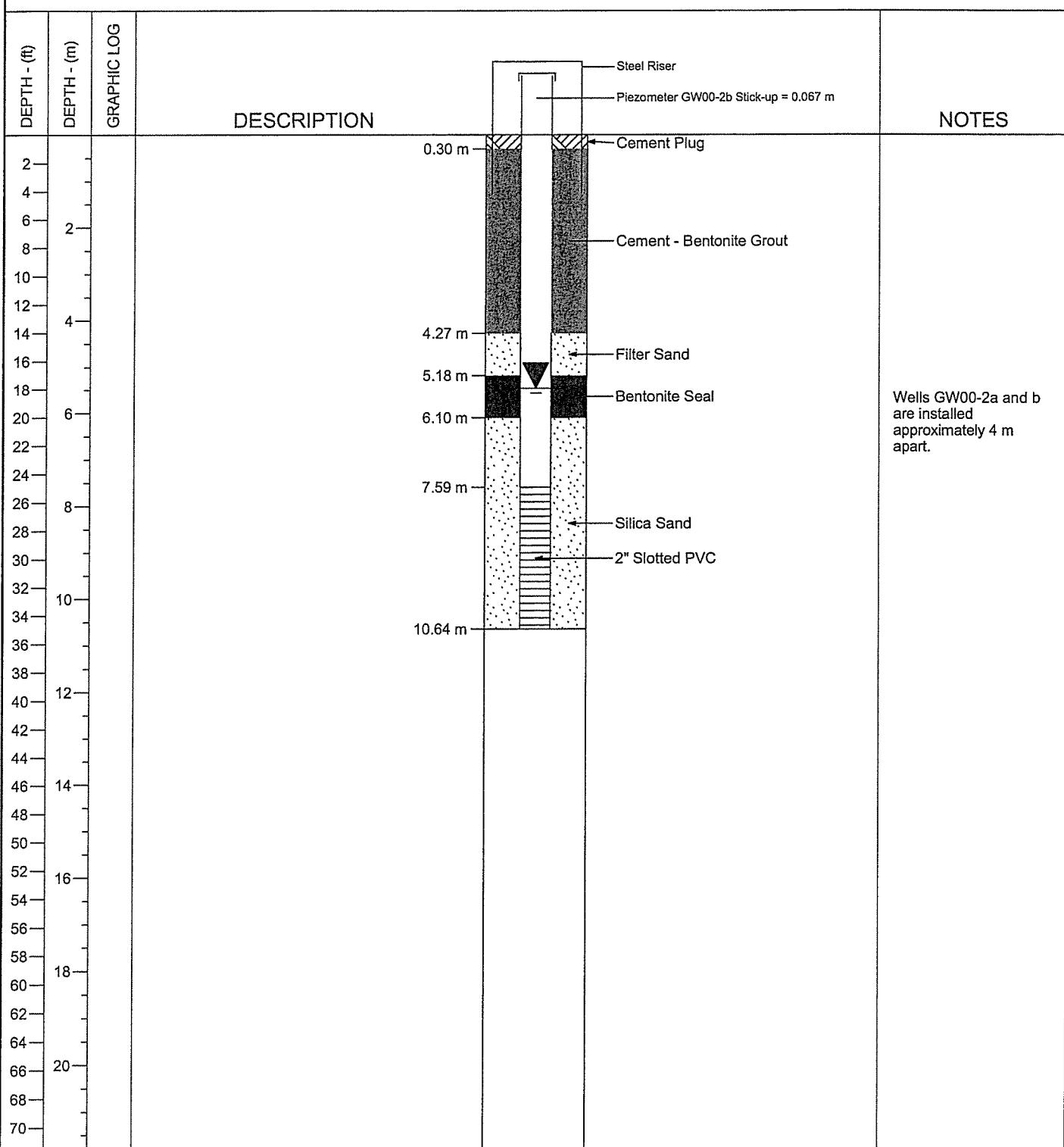
Project: Mt. Polley Mine - TSF Stage 3 Construction **Drill Hole No.:** GW00-2b Pg. 1 of 1

Hole Depth: 21.55 m Hole Diameter: 0.102 m Date Started: 30-Aug-00 Date Completed: 31-Aug-00

Surface Elev: 943. m (Approx.) Well Diameter: 48.77 mm Logged by: JDC Reviewed by: _____

Water Level Readings: Depth to Water / Water Elevation / Date Measured

Well 1: 5.46 m / 937.9 m / 4 Oct 01



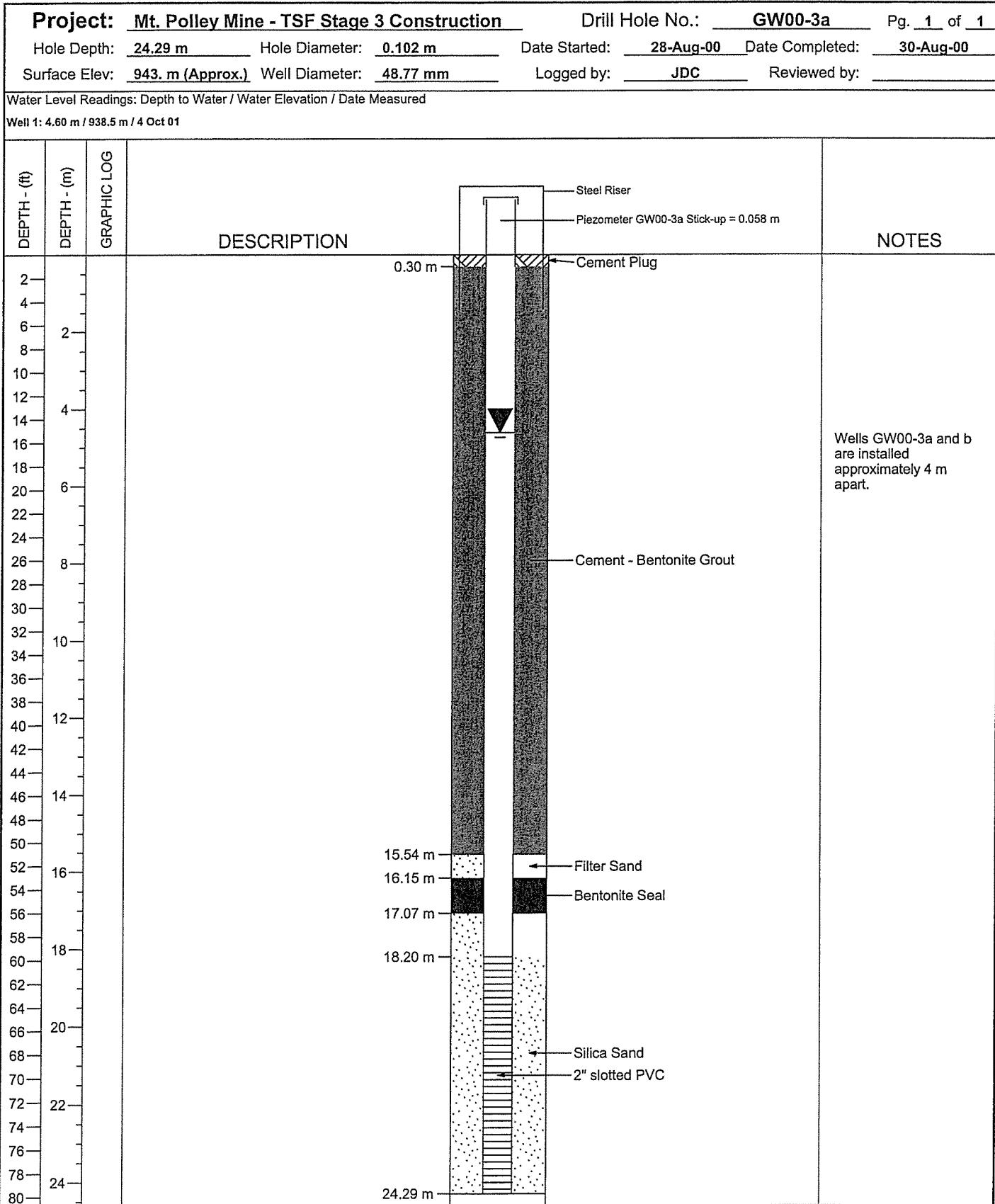
WELL DRILL.GPJ DRILL.GDT 7 Sep 01

Knight Piésold
CONSULTING

Mount Polley Mining Corporation
Well Construction Details of GW00-2B

Ref. No. 3 Rev. No. 0

Project Location	Project No.	Fig.
Mount Polley Mine	11162/14	A-10



WELL DRILL.GPJ DRILL.GDT 7 Sep 01

Knight Piésold
CONSULTING

Mount Polley Mining Corporation
Well Construction Details of GW00-3A

Ref. No. 3	Rev. No. 0
Project Location	Project No.
Mount Polley Mine	Fig.
11162/14 A-12	

Project: Mt. Polley Mine - TSF Stage 3 Construction			Drill Hole No.	GW00-3	Pg. 1 of 1					
Drilling Co:	Geotech Drilling	Drilling Method:	ODEX with D/H Hammer	Date Started:	August 2000					
Location:	South Embankment	In-Situ Sampler:	45 cm Split Spoon	Date Completed:	August 2000					
	N 5818238.1 m , E 594896.4 m	Total Depth:	24.29 m	Logged by:	jdc					
Surface Elev.:	943.07 m	Inclination:	-90	Reviewed by:						
DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (•) 20 40 60 80	NOTES
0.5			Fill, silt with some gravel and organics, grey and very moist							Drilling with solid stem augers
1.0			Silt and Sand; brown, some gravel and trace clay, medium dense to dense, non-plastic to low plasticity, very moist to wet. Coarse sand seam at 9'.							Seepage at 9'; hole sloughing in at 12.5', switched to 4" ODEX, drilling dry
5.0			Silt, fine sand with trace gravel; compact, grey and very moist							Possible seepage at 23'
30.0			Glaciofluvial, silt with fine sand with trace gravel in local areas; low plasticity and layered; very moist to wet							Softer drilling from 31 to 35'; drilling with water in places below 30' to prevent bit and casing from being plugged
40.0			Till, Silt with fine sand, some gravel; non-plastic, very dense and moist. Distinct change from grey to brown at 40.5'; becoming more sandy and gravelly at 45'.							
50.0			Bedrock, Weathered, purpleish color. Becoming more competent below 75'.							Drilling dry with an uncased hole below 55'. Seepage between 70 to 75'.
80.0										EOH

SOILS LOG DRILL.GPJ DRILL.GDT 7 Sep 01

Knight Piésold
CONSULTING

Mount Polley Mining Corporation
Overburden Log of GW00-3

Ref. No. 3 Rev. No. 0
Project Location Project No. Fig.
Mount Polley Mine 11162/14 A - 11

Project: Mt. Polley Mine - TSF Stage 3 Construction

Drill Hole No.: **GW00-3b**

Pg. 1 of 1

Hole Depth: 24.29 m Hole Diameter: 0.102 m

Date Started: 28-Aug-00 Date Completed: 30-Aug-00

Surface Elev: 943. m (Approx.) Well Diameter: 48.77 mm

Logged by: JDC Reviewed by: _____

Water Level Readings: Depth to Water / Water Elevation / Date Measured

Well 1: 5.61 m / 937.6 m / 4 Oct 01

DEPTH - (ft)	DEPTH - (m)	GRAPHIC LOG	DESCRIPTION	NOTES
2				
4				
6				
8				
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50				
52				
54				
56				
58				
60				
62				
64				
66				
68				
70				
72				
74				
76				
78				
80				

WELL DRILL.GPJ DRILL.GDT 7 Sep 01

Knight Piésold CONSULTING

Mount Polley Mining Corporation Well Construction Details of GW00-3B

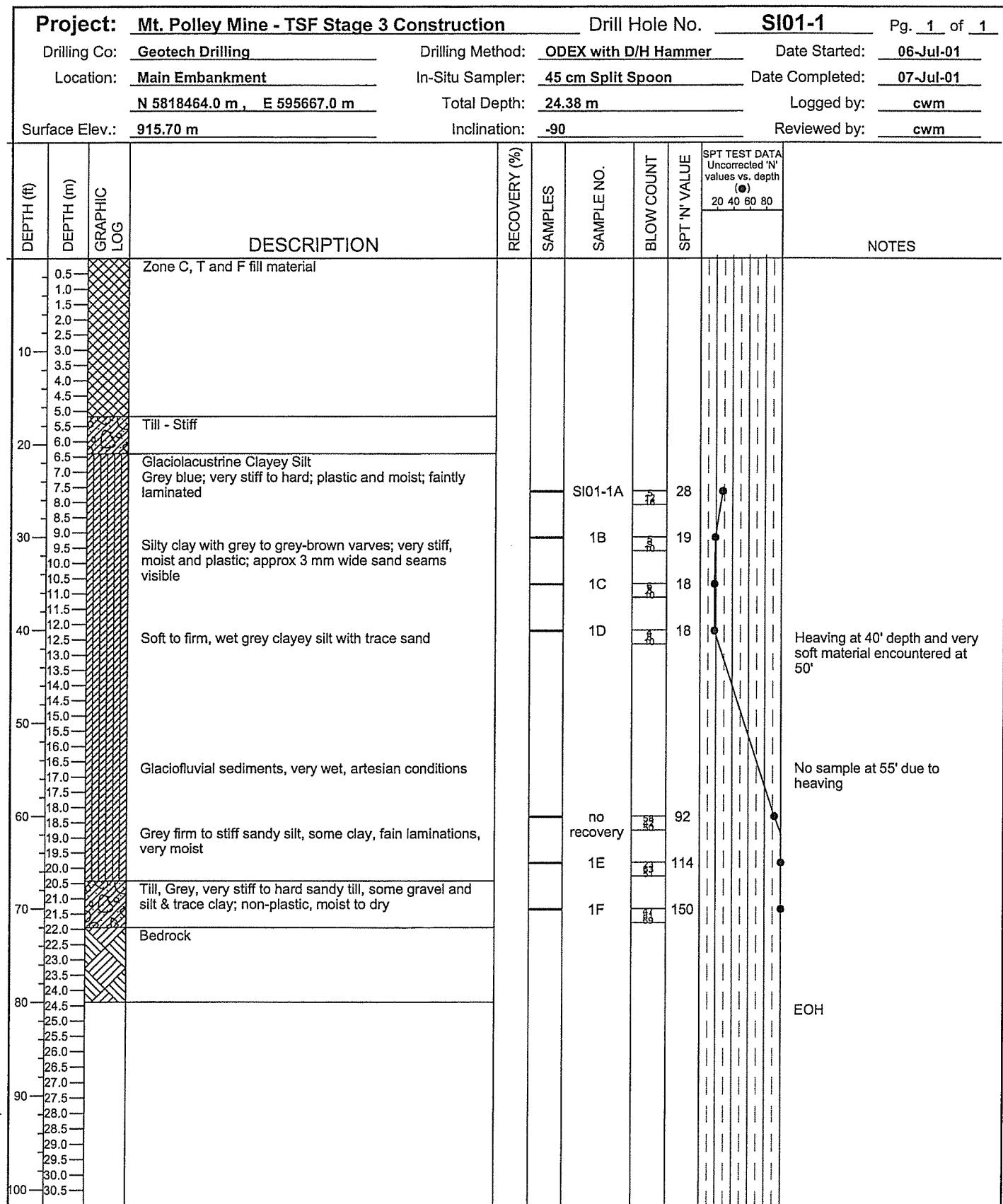
Project Location

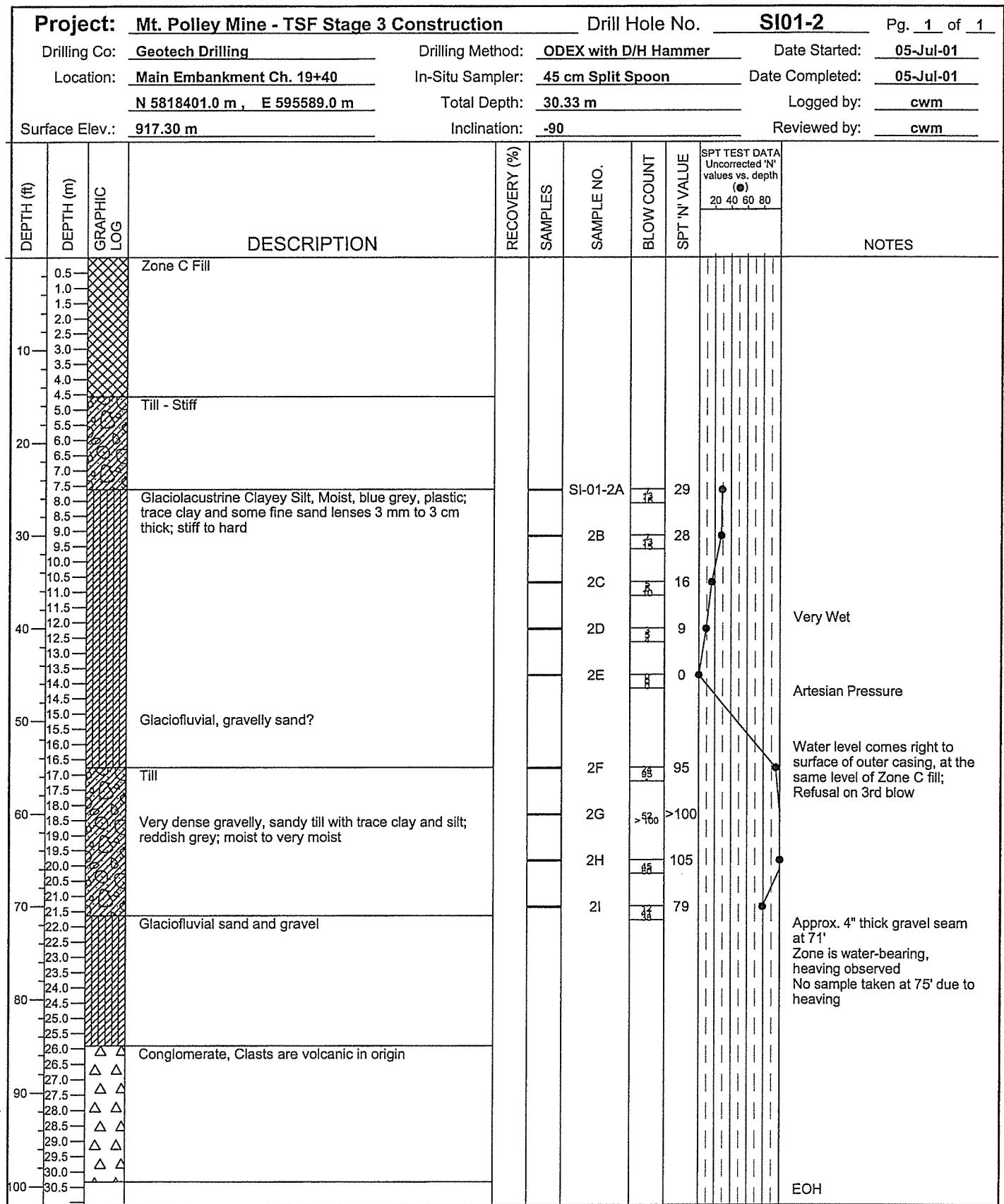
Ref. No. 3

Rev. No. 0

M:\11162\14\DATA\GINT\DRILL.GPJ

Date Revised 01-Sep-07





APPENDIX B

CONSTRUCTION QUALITY ASSURANCE CONTROL
TEST SUMMARY SHEETS AND GRADATION PLOTS

- Table B1 r0 Stage 3 Construction - Zone F Control Test Summary Sheet
- Table B2 r0 Stage 3B Construction - Zone T Control Test Summary Sheet
- Table B3 r0 Stage 3 Construction - Borrow Areas 2 and 3 - Material Investigations – Zone S Control Test Summary Sheet
- Table B4 r0 Stage 3 Construction - Borrow Area 5 - Material Investigations – Zone S Control Test Summary Sheet
- Figure B1 r0 Stage 3 Construction – Zone F Control Samples - Gradation Curves
- Figure B2 r0 Stage 3B Construction – Zone T Control Samples – Gradation Curves
- Figure B3 r0 Stage 3 Construction – Borrow Areas 2 and 3 - Investigations – Gradation Plots
- Figure B4 r0 Stage 3 Construction – Borrow Area 5 - Investigation

TABLE B1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F CONTROL TEST SUMMARY SHEET

M:1116214141hcoming12001 08 270kpsiStage3B ConstructionTablecontrol\C-ZF-summ.xls\Data Sheet

Knight Piésold
CONSULTING

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

MATERIAL: Zone F - Filter Sand

Sample No.	Date Sampled	Location	EI (m)	C1				C2				C3 (Particle Size Distribution)				C4				C6					
				Atterberg Limits		Field m/c	L1	C1		PL	LL	PI	C2		Field m/c	L1	PL	LL	PI	C4		Max Dry Density kg/m ³	Optimum m/c	Clay %	Specific Gravity
				%	%	%	%	4	3	1 1/2	1	3/4	1/2	3/8	#4	#8	#16	#30	#50	#100	#200	#300	#500	#1000	
C-ZF-3-1	17-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-2	19-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-3	19-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-4	20-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-5	21-Jul-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-6	24-Aug-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-7	24-Aug-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-8	25-Aug-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-9	6-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-10	6-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-11	8-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-12	9-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-13	9-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-14	10-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-15	12-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-16	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-17	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-18	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-19	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-20	17-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-21	17-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-22	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-23	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-24	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-25	11-Nov-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-26	29-Nov-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-27	4-Dec-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-28	4-Dec-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-29A	4-Dec-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-30	4-Dec-00	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-31	28-Mar-01	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-32	28-Mar-01	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
C-ZF-3-33	28-Mar-01	Zone F Stockpile	-	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE B1

Mount Polley Mining Corporation

**TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F CONTROL TEST SUMMARY SHEET**

C:\11\162\14\Income\2001 08 22\kosis\Status\B_Construction\lab\control\NC-Z-E-summ.xls Data Sheet

Knight Piésold

Knight Consulting																SHEET:	1 of 1					
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION															PERIOD:	August 6 to August 12, 2001						
MATERIAL: Zone F - Filter Sand															PROJECT NO.:	11162/14						
AREA: Zone F Stockpile															C4	Standard Proctor Max Dry Density m ³ /kg/m ³	C6					
															#DIV/0!	#DIV/0!	Specific Gravity					
Sample No.	Date Sampled	Location		El. (m)	C1		C2		C3 (Particle Size Distribution)													
		PL	LL		Atterberg Limits	Field m/c	L1 %	Field m/c	L1 %	101.6	76.2	38.1	25.4	19.05	12.7	9.525	4.75	2.36	1.18	0.6	0.3	0.14986
C-ZF-3-33	28-May-01	Zone F Stockpile		-	-	-	-	2.9	-	100.0	100.0	100.0	98.7	56.0	28.1	17.6	12.8	10.1	7.8	6.1	4.8	-
C-ZF-3-34	11-Jun-01	Zone F Stockpile		-	-	-	-	3.7	-	100.0	100.0	100.0	99.3	59.2	35.0	24.2	15.0	10.5	7.8	6.1	4.8	-
C-ZF-3-35	11-Jun-01	Zone F Stockpile		-	-	-	-	4.2	-	100.0	100.0	100.0	97.9	59.3	34.7	24.7	15.3	10.6	8.0	6.4	5.1	-
C-ZF-3-36	12-Jun-01	Zone F Stockpile		-	-	-	-	2.6	-	100.0	100.0	100.0	97.7	60.6	37.0	24.2	16.5	12.2	9.4	7.1	5.6	-
C-ZF-3-37	3-Jul-01	Zone F Stockpile		-	-	-	-	1.5	-	100.0	100.0	100.0	96.0	56.3	34.9	23.7	16.1	11.5	8.0	4.2	2.2	-
C-ZF-3-38	3-Jul-01	Zone F Stockpile		-	-	-	-	2.6	-	100.0	100.0	100.0	98.5	76.2	55.6	40.0	27.2	19.0	12.9	6.5	3.3	-
C-ZF-3-39	3-Jul-01	Zone F Stockpile		-	-	-	-	2.6	-	100.0	100.0	100.0	99.5	75.4	44.2	24.5	14.3	9.8	6.7	3.7	1.9	-
C-ZF-3-40	4-Jul-01	Zone F Stockpile		-	-	-	-	3.6	-	100.0	100.0	100.0	99.3	68.8	44.7	30.2	18.8	12.3	6.9	3.2	1.5	-
C-ZF-3-41	4-Jul-01	Zone F Stockpile		-	-	-	-	5.5	-	100.0	100.0	100.0	99.2	77.0	54.7	36.7	21.3	11.9	6.3	3.7	1.8	-
C-ZF-3-42	13-Jul-01	Zone F Stockpile		-	-	-	-	5.3	-	100.0	100.0	100.0	96.9	69.4	45.3	27.4	16.9	10.3	5.9	3.9	-	-
C-ZF-3-43	13-Jul-01	Zone F Stockpile		-	-	-	-	5.5	-	100.0	100.0	100.0	99.1	79.1	57.4	39.0	26.0	16.7	9.1	4.5	-	-
C-ZF-3-44	28-Jul-01	Zone F Stockpile		-	-	-	-	6.9	-	100.0	100.0	100.0	99.1	80.2	60.7	50.1	39.5	30.8	23.6	18.8	14.9	-
C-ZF-3-45	29-Jul-01	Zone F Stockpile		-	-	-	-	8.1	-	100.0	100.0	100.0	95.0	60.7	41.6	31.5	24.5	19.3	15.6	12.6	10.2	-
C-ZF-3-46	9-Aug-01	Zone F Stockpile		-	-	-	-	6.4	-	100.0	100.0	100.0	100.0	86.4	52.6	32.2	21.7	17.1	14.0	11.5	9.5	-
MEAN	#DIV/0!	#DIV/0!		4.3	#DIV/0!	#DIV/0!		98.5	#DIV/0!	70.5	46.8	32.1	21.5	15.3	11.0	7.8	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
MEDIAN	#NUM!	#NUM!		4.1	#NUM!	#NUM!		99.1	#NUM!	72.4	45.0	31.2	20.1	12.3	8.6	6.3	5.0	0.0	0.0	0.0	0.0	
MAXIMUM (*)	0.0	0.0		8.1	0.0	0.0		100.0	100.0	100.0	100.0	0.0	86.4	61.6	50.1	39.5	30.8	23.6	18.8	14.9	10.2	-
MINIMUM (*)	0.0	0.0		1.5	0.0	0.0		100.0	100.0	100.0	100.0	0.0	36.0	28.1	17.6	12.8	9.8	5.9	3.2	1.5	0.0	0.0

Note : These are 100% limits.
Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

ID Instrucciones

ar - in progress

BREYER 0 - Issued with Report on Stake 3 Construction.

TA..... B2
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
ZONE T CONTROL TEST SUMMARY SHEET

Knight Piésold
CONSULTING

Project: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

Material: Zone T - Transition Zone

C: Particle Size Distribution												
Sample No.	Date Sampled	Location	El (m)	C1			C2			C3		
				PL %	LL %	PI %	Field %	m/c %	LI %	101.6	76.2	38.1
C-ZT-1	2-Jun-01	Rock Borrow	-	-	-	-	6.8	-	-	80.4	69.8	55.8
										39.3	27.3	19.3
										12.6	8.8	6.3
										4.6	1.7	-
										-	-	-
MEAN	#DIV/0!	#DIV/0!	6.8	#DIV/0!	#DIV/0!	80.4	69.8	55.8	39.3	27.3	19.3	12.6
MEDIAN	#NUM!	#NUM!	6.8	#NUM!	#NUM!	80.4	69.8	55.8	39.3	27.3	19.3	12.6
MAXIMUM (*)	0.0	0.0	6.8	0.0	0.0	80.4	69.8	55.8	39.3	27.3	19.3	12.6
MINIMUM (*)	0.0	0.0	6.8	0.0	0.0	80.4	69.8	55.8	39.3	27.3	19.3	12.6

Note : These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.
IP - In progress

- C1 Atterberg Limits (ASTM D4318)
- C2 Moisture Content (ASTM D2216)
- C3 Particle Size Distribution (ASTM D422)
- C4 Laboratory Compaction (ASTM D1557)
- C6 Specific Gravity (ASTM D354)

TABLE B3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION - BORROW AREAS 2 AND 3 MATERIAL INVESTIGATIONS
ZONE S CONTROL TEST SUMMARY SHEET

M:\U1102\14\Data\April\2001 Site Investigation, task 0500\Tab\1C-B4Z2S-SUM.xls[Summary Table r4]

Date Sampled	Sample No.	Location	Ground El. (m)	Atterberg Limits			C1			C2			C3 (Particle Size Distribution)											
				PL %	LL %	PI %	Lab %	n/c %	PI %	76.2	50.8	38.1	25.4	19.05	12.7	9.525	4.7498	2	0.85	0.4191	0.25	0.150	0.0737	0.00199598
3-Apr-01	DH01-01A	Borrow Area 2, 10 ft depth	940.4				12.1	100.0	100.0	98.4	96.0	92.8	89.8	81.1	74.3	69.0	64.5	58.7	52.8	43.6				
3-Apr-01	DH01-02A	Borrow Area 2, 10 ft depth	939.2				12.6	100.0	100.0	98.1	95.9	92.5	90.0	84.1	77.9	72.5	67.6	61.4	55.0	44.8	18.9			
3-Apr-01	DH01-02B	Borrow Area 2, 20 ft depth	939.2				17.1																	
3-Apr-01	DH01-02C	Borrow Area 2, 30 ft depth	939.2				12.6																	
3-Apr-01	DH01-03A	Borrow Area 2, 10 ft depth	938.9				10.9	100.0	100.0	99.4	97.1	93.9	91.1	83.3	75.7	69.9	65.0	58.8	52.5	42.7				
3-Apr-01	DH01-06A	Borrow Area 2, 10 ft depth	938.0				10.7	100.0	100.0	98.6	94.8	91.2	85.3	78.4	73.0	68.6	63.3	57.7	57.7	48.5				
4-Apr-01	DH01-07B	Borrow Area 2, 20 ft depth	938.4				10.9	100.0	100.0	100.0	99.3	94.7	90.8	85.8	78.9	73.6	68.8	62.8	56.4	45.5	16.6			
4-Apr-01	DH01-08C	Borrow Area 2, 30 ft depth	939.0				11.2	100.0	100.0	98.2	97.5	94.1	91.1	87.2	82.9	78.3	73.8	67.7	61.3	48.6				
4-Apr-01	DH01-09A	Borrow Area 2, 10 ft depth	939.0				12.2																	
4-Apr-01	DH01-10B	Borrow Area 2, 20 ft depth	937.7				12.7																	
4-Apr-01	DH01-11C	Borrow Area 2, 30 ft depth	939.2				44.0																	
5-Apr-01	DH01-12A	Borrow Area 2, 10 ft depth	938.8				44.9	100.0	100.0	94.0	91.6	89.5	85.3	80.9	74.6	68.4	62.9	55.9	49.1	39.5	13.2			
5-Apr-01	DH01-12B	Borrow Area 2, 20 ft depth	938.8				20.3																	
5-Apr-01	DH01-13A	Borrow Area 2, 10 ft depth	938.6				10.3																	
5-Apr-01	DH01-14A	Borrow Area 2, 10 ft depth	937.2				12.1																	
5-Apr-01	DH01-15A	Borrow Area 2, 10 ft depth	937.2				8.8																	
5-Apr-01	DH01-16B	Borrow Area 2, 20 ft depth	937.4				12.9																	
6-Apr-01	DH01-17A	Borrow Area 2, 10 ft depth	937.9				11.0	100.0	100.0	98.2	96.7	93.6	90.3	81.4	75.1	69.6	64.7	58.8	53.1	44.5	19.5			

Printed: 2-Oct-01
Rev'd: 2-Oct-01

TABLE B3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 3 CONSTRUCTION - BORROW AREAS 2 AND 3 MATERIAL INVESTIGATIONS
ZONE S CONTROL TEST SUMMARY SHEET

MAU116214\14Data\April 2001 Site Investigation, task 05001\lab\{C:\BA2ZS-SUM.xls\}Summary Table_10

Date Sampled	Sample No.	Location	Ground El. (m)	C1 (Particle Size Distribution)							C2 (Particle Size Distribution)							C3 (Particle Size Distribution)									
				Atterberg Limits			Lab m/c %	PL %	LL %	PI %	C1			Lab m/c %	PL %	LL %	PI %	C2			Lab m/c %	PL %	LL %	PI %	C3		
				76.2	50.8	38.1	25.4	19.05	12.7	9.525	4.7498	2	0.85	41.91	0.25	0.150	0.0737	0.00196998	0.00059	0.00059	0.00029	0.00029	0.0000787	0.0000787	Clay		
6-Apr-01	DH01-18A	Borrow Area 2, 10 ft depth	937.1				12.1																				
6-Apr-01	DH01-19B	Borrow Area 2, 20 ft depth	936.1				11.0	100.0	98.4	96.7	94.5	92.8	91.5	88.0	84.0	79.8	75.8	68.4	57.8	39.2							
6-Apr-01	DH01-20A	Borrow Area 2, 10 ft depth	935.9				12.4	100.0	100.0	100.0	98.0	96.5	94.5	90.3	85.2	80.3	75.0	67.9	67.9	60.0	49.1						
6-Apr-01	DH01-21B	Borrow Area 2, 20 ft depth	936.3				10.3																				
6-Apr-01	DH01-23A	Borrow Area 2, 10 ft depth	939.6				11.3	100.0	100.0	100.0	100.0	99.0	98.0	96.7	92.4	86.2	78.8	69.7	62.0	50.6							
6-Apr-01	DH01-24A	Borrow Area 2, 10 ft depth	939.8				11.9																				
6-Apr-01	DH01-25A	Borrow Area 2, 10 ft depth	937.9				10.5																				
9-Apr-01	DH01-26A	Borrow Area 2, 10 ft depth	936.5				11.1																				
9-Apr-01	DH01-26B	Borrow Area 2, 20 ft depth	936.5				10.2	100.0	100.0	100.0	100.0	97.4	95.8	93.6	89.9	86.0	81.6	75.1	67.4	54.2							
9-Apr-01	DH01-29A	Borrow Area 2, 10 ft depth	938.4				8.0	100.0	100.0	97.3	91.5	82.2	76.5	70.3	61.2	53.5	47.2	40.2	34.4	27.6							
9-Apr-01	DH01-30A	Borrow Area 2, 10 ft depth	940.3				10.3																				
9-Apr-01	DH01-31A	Borrow Area 2, 10 ft depth	939.5				10.7	100.0	100.0	96.9		94.8	94.0	92.8	88.8	84.1	78.8	71.7	61.9	52.9							
9-Apr-01	DH01-32A	Borrow Area 2, 10 ft depth	936.8				10.2																				
9-Apr-01	DH01-33B	Borrow Area 2, 20 ft depth	935.0				9.8	100.0	100.0	94.0	92.8	91.4	89.3	86.7	83.2	79.4	75.2	69.0	61.8	50.4							
10-Apr-01	DH01-39A	Borrow Area 2, 10 ft depth	940.2				8.6	100.0	100.0	100.0	99.2	94.5	88.7	74.0	55.4	45.5	39.7	34.9	30.9	25.5							
10-Apr-01	DH01-39B	Borrow Area 2, 20 ft depth	940.2				8.4	100.0	100.0	95.3	92.7	88.0	84.7	77.2	68.6	60.4	52.9	44.5	39.8	31.0							
10-Apr-01	DH01-40A	Borrow Area 2, 10 ft depth	939.7				11.4																				

Printed: 2-Oct-01

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Mount Polley Mining Corporation
Mount Polley Mine
Tailings Storage Facility

**STAGE 3 CONSTRUCTION - BORROW AREAS 2 AND 3 MATERIAL INVESTIGATIONS
ZONE S CONTROL TEST SUMMARY SHEET**

C3 (Particle Size Distribution)												
Sampled	Date	Sample No.	Location	C1			C2			C3 (Particle Size Distribution)		
				Atterberg Limits			Lab			0.00199898		
				PL	LL	PI	m/c	3	2	0.0459	0.0029	0.0000787
				%	%	%	%	3	2	0.1320	0.0165	0.0059
10-Apr-01	DH01-41A	Borrow Area 2, 10 ft depth	937.0				10.4			0.1320	0.0165	0.0059
10-Apr-01	DH01-42A	Borrow Area 2, 10 ft depth	934.2				11.5	100.0	100.0	0.1320	0.0165	0.0059
10-Apr-01	DH01-43A	Borrow Area 2, 10 ft depth	935.2				10.0					
10-Apr-01	DH01-51A	Borrow Area 2, 10 ft depth	936.3				10.3	100.0	100.0	0.1320	0.0165	0.0059
11-Apr-01	DH01-59A	Borrow Area 2, 10 ft depth	934.6				12.1					
11-Apr-01	DH01-60B	Borrow Area 2, 20 ft depth	933.8				10.8	100.0	100.0	0.1320	0.0165	0.0059
11-Apr-01	DH01-61A	Borrow Area 2, 10 ft depth	934.3				11.5					
11-Apr-01	DH01-62A	Borrow Area 2, 10 ft depth	933.5				10.2	100.0	100.0	0.1320	0.0165	0.0059
11-Apr-01	DH01-64A	Borrow Area 2, 10 ft depth	918.2				10.7					
11-Apr-01	DH01-65A	Borrow Area 2, 10 ft depth	929.7				13.1	100.0	100.0	0.1320	0.0165	0.0059
11-Apr-01	DH01-66A	Borrow Area 2, 10 ft depth	927.7				12.0					
	MEAN	#DIV/0!	#DIV/0!	12.8	100.0	99.9	96.8	93.5	90.5	85.2	78.8	73.3
	MEDIAN	#NUM!	#NUM!	11.1	100.0	100.0	98.9	97.5	94.2	91.0	85.6	73.4
	MAXIMUM	0.0	0.0	44.9	100.0	100.0	100.0	99.0	98.0	96.7	92.4	86.2
	MINIMUM	0.0	0.0	0.0	0.0	0.0	100.0	98.4	94.0	91.5	82.2	76.5

Notes

Alteisberg Limits (ASTM D4318)

Moisture Content (ASTM D2216)

C3 Particle Size Distribution (ASTM D432)

Rev 0 - Issued with Report on Stage 3 Construction.

TABLE B4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

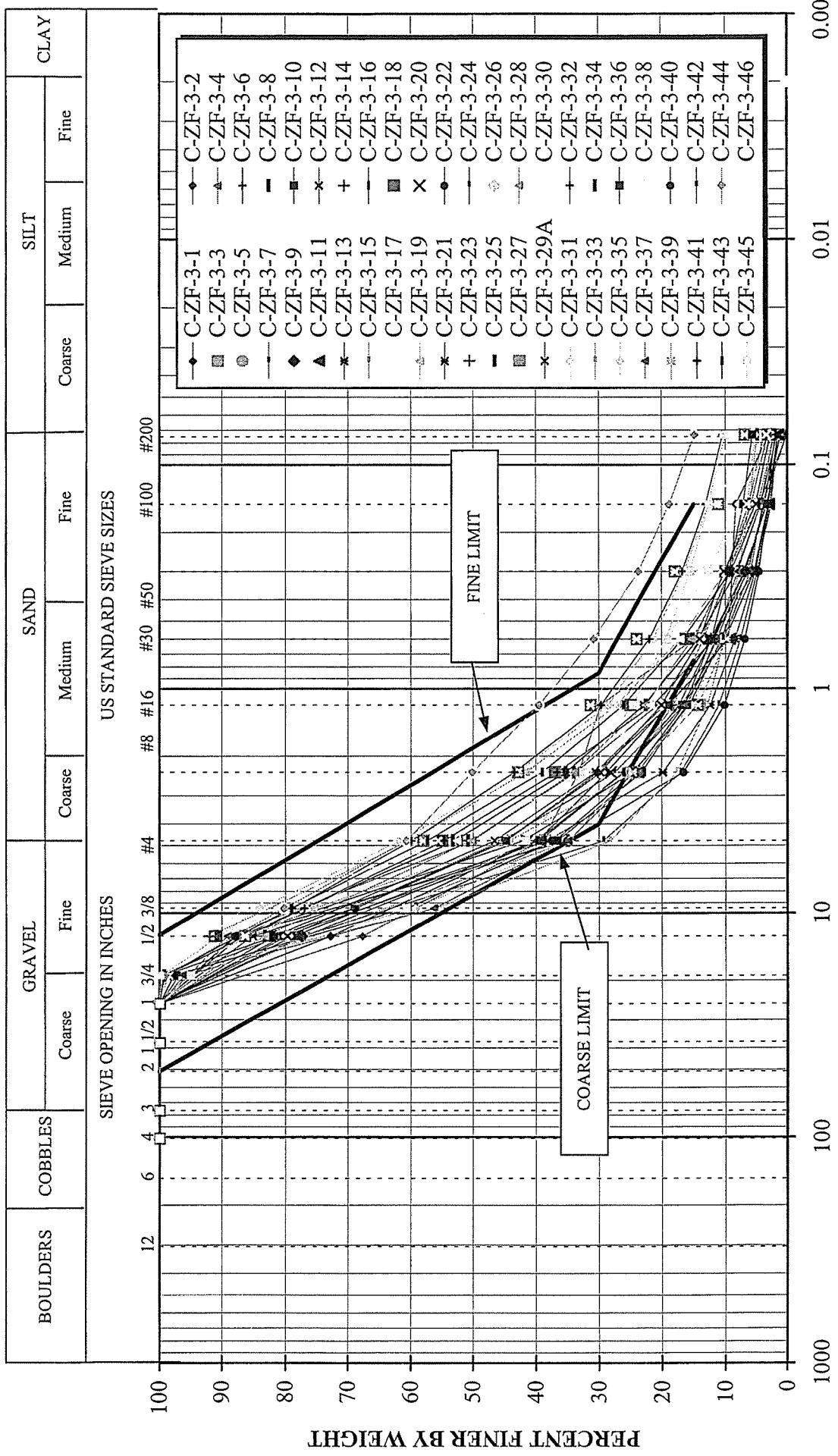
STAGE 3 CONSTRUCTION - BORROW AREA 5 MATERIAL INVESTIGATIONS
ZONE S CONTROL TEST SUMMARY SHEET

MA\111621\4\Data\April 2001 Site Investigation, task 0500\lab1\c-BASZS-SUM.xls|Summary Table 0

Date Sampled	Sample No.	Location	Ground El. (m)	C1 Atterberg Limits			C2			C3 (Particle Size Distribution)											
				PL %	LL %	PI %	Lab m/c	76.2 3	50.8 2	38.1 1.5	25.4 1	19.05 0.7500	12.7 0.3750	9.525 0.1870	4.7498 0.1320	2 0.0469	0.85 0.0165	0.419 0.0165	0.25 0.0165	0.150 0.0059	0.07366 0.0029
12-Apr-01	DH01-67A	Borrow Area 5, 10 ft depth	947.5					13.9	100.0	100.0	100.0	100.0	100.0	99.5	96.9	93.5	89.8	85.0	79.7	69.0	24.9
12-Apr-01	DH01-74A	Borrow Area 5, 10 ft depth	963.4					14.2	100.0	100.0	100.0	100.0	100.0	98.3	96.3	92.7	88.5	82.8	76.8	65.5	
12-Apr-01	DH01-75A	Borrow Area 5, 10 ft depth	962.8					14.6	100.0	100.0	100.0	100.0	100.0	99.1	97.2	93.6	89.5	84.2	78.5	68.3	26.9
12-Apr-01	DH01-77A	Borrow Area 5, 10 ft depth	960.9					17.5													
				MEAN	#DIV/0!	#DIV/0!	15.1	100.0	100.0	100.0	100.0	100.0	99.0	96.8	93.3	89.3	84.0	78.3	67.6	25.9	
				MEDIAN	#NUM!	#NUM!	14.4	100.0	100.0	100.0	100.0	100.0	99.1	96.9	93.5	89.5	84.2	78.5	68.3	25.9	
				MAXIMUM	0.0	0.0	17.5	100.0	100.0	100.0	100.0	100.0	100.0	99.5	97.2	93.6	89.8	85.0	79.7	69.0	26.9
				MINIMUM	0.0	0.0	13.9	100.0	100.0	100.0	100.0	100.0	100.0	98.3	96.3	92.7	88.5	82.8	76.8	65.5	24.9

Notes:

- C1 Atterberg Limits (ASTM D4318)
- C2 Moisture Content (ASTM D2216)
- C3 Particle Size Distribution (ASTM D422)



PROJECT 11162/14	REF. 3	REV. 0
FIGURE B1		

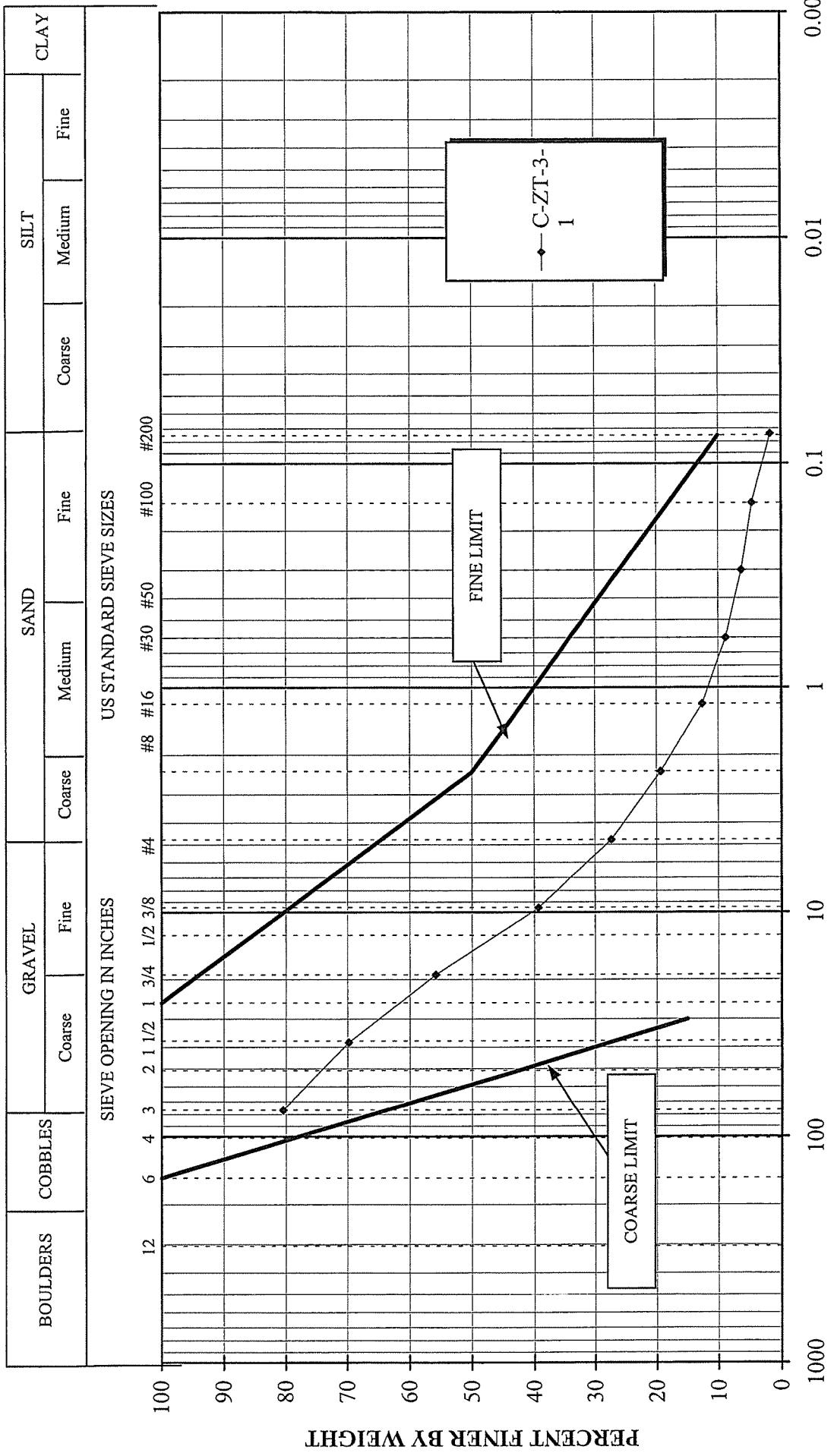
MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3
CONSTRUCTION - ZONE F CONTROL SAMPLES

GRADATION CURVES

Knight Piésold
CONSULTING

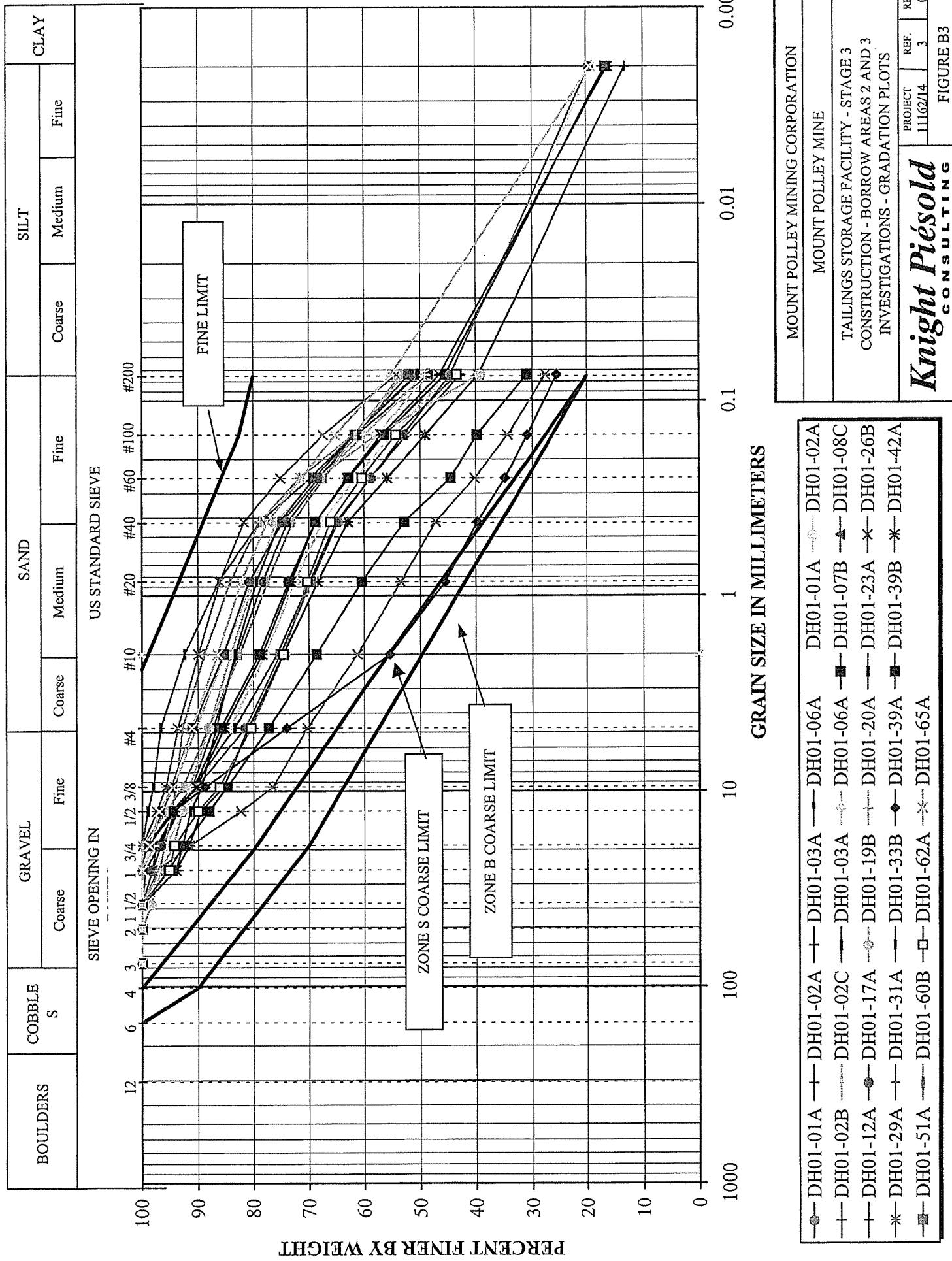


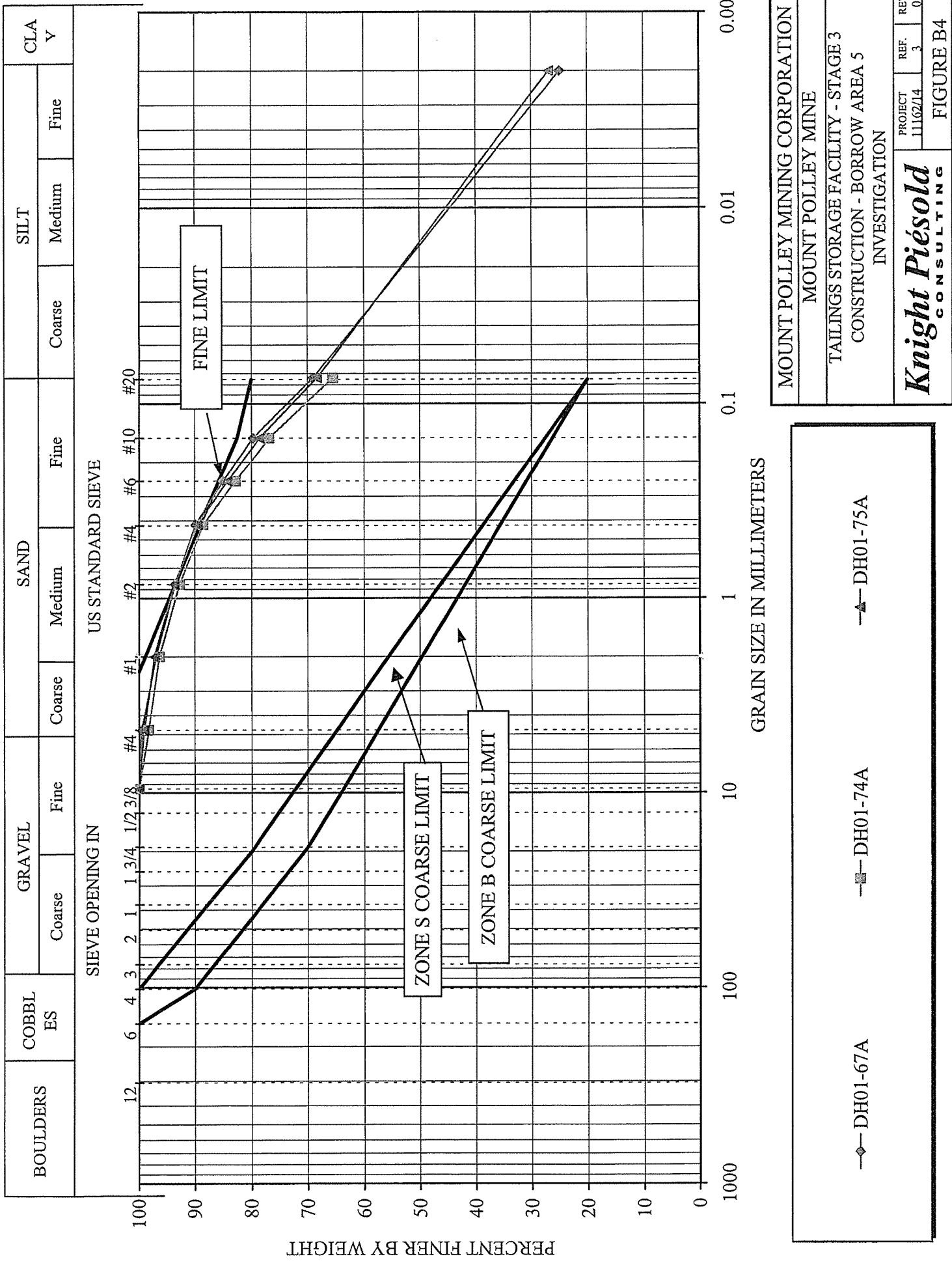
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE T CONTROL SAMPLES
GRADATION CURVES

Knight Piésold
CONSULTING

PROJECT	REF.	REV.
11162/14	3	0

FIGURE B2





APPENDIX C

CONSTRUCTION QUALITY ASSURANCE RECORD
TEST SUMMARY SHEETS

- Table C1 r0 Zone Record Test Summary Sheet
- Table C2 r0 Zone CS Record Tests – Summary Sheet
- Table C3 r0 Zone F Record Test Summary Sheet
- Table C4 r0 Zone T Record Test Summary Sheet
- Table C5 r0 Zone C Record Tests – Summary Sheet

TABLE C1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE S RECORD TEST SUMMARY SHEET

M41102141RReport35Figureasest(RZS-summary.xls)Data Sheet r0

Knight Piésold
c o n s u l t a n t s

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

Sample No.	Date Sampled	Location	Elev. (m)	R1			R2			R3 (Particle Size Distribution)			R4			R5												
				Field	Atterberg Limits	Pl. %	Field	Atterberg Limits	Pl. %	Field	Atterberg Limits	Pl. %	Optimum m/c	Field m/c	Standard Proctor	Max Dry Density kg/m ³	Field m/c	Percent Compaction %										
R-ZS-1-1	19-Sep-00	Ch. 27+00	941.2	13.9	24.5	10.6	9.8	-	100.0	100.0	98.0	95.6	90.5	84.1	78.8	73.4	69.1	63.7	57.2	44.3	-	21108	8.8	99.9	1.536			
R-ZS-2-2	21-Sep-00	Ch. 16+00	941.0	13.6	24.4	10.8	9.5	-	100.0	100.0	98.8	95.3	93.0	87.3	85.2	80.1	75.2	70.9	65.8	59.9	48.7	-	2092	9.6	100.0	2.623		
R-ZS-3-3	22-Sep-00	Ch. 22+60	941.6	13.7	24.4	10.7	9.9	-	100.0	100.0	97.6	95.4	88.4	82.5	78.3	74.2	69.8	63.5	56.7	44.3	-	2109	8.4	2142	9.9	101.6	2.605	
R-ZS-3-4	23-Sep-00	Ch. 8+40	-	14.0	22.8	8.8	9.6	-	100.0	100.0	99.1	95.4	93.4	88.0	83.3	78.7	74.5	70.2	64.4	58.2	45.1	-	2141	7.8	2092	9.6	97.7	2.673
R-ZS-3-5	26-Sep-00	S.E. Zone S Fill	-	13.4	22.5	9.1	8.0	-	100.0	100.0	97.7	95.0	92.8	85.8	77.3	72.7	68.3	62.0	54.2	43.5	39.6	-	21460	7.2	2236	8.0	104.5	2.674
R-ZS-3-6	22-Jan-01	Ch. 33+00	941.3	-	-	-	10.5	-	100.0	100.0	100.0	97.2	91.7	88.0	84.8	80.0	74.7	69.0	62.1	50.0	-	2075	10.8	2064	10.5	99.5	-	
R-ZS-3-7	12-Jul-01	28+25.5 m DS from US Toe	941.3	-	-	-	11.4	-	100.0	100.0	100.0	96.0	87.6	79.6	75.4	71.6	67.8	62.7	55.8	48.2	-	2080	9.0	2043.0	10.7	98.2	-	
R-ZS-3-8	12-Aug-01	Ch. 42+75.6 m DS from US Toe	941.4	-	-	-	10.9	-	100.0	100.0	93.3	87.4	83.9	78.9	74.3	71.0	67.3	63.8	58.6	55.7	43.4	-	2045.0	6.0	2091.0	9.8	102.2	-
R-ZS-3-9	18-Aug-01	Ch. 38+18.5 m DS from US Toe	942.5	-	-	-	10.7	-	100.0	100.0	93.5	86.5	83.2	65.8	63.6	60.8	56.2	48.5	40.2	-	21900	8.4	2134.0	9.6	97.4	-		
MEAN				13.7	23.7	10.0	10.0	#DIV/0!	100.0	100.0	98.3	96.5	93.4	87.2	80.8	76.2	72.0	67.7	63.0	55.3	44.9	#DIV/0!	21000.9	100.5	104.4			
MEDIAN				13.7	24.4	10.6	9.9	#N/A!	100.0	100.0	97.6	93.5	87.6	82.5	78.3	73.4	69.1	63.5	56.7	44.3	#N/A!	2109.0	9.9	99.9	2.62			
MAXIMUM (*)				14.0	24.5	10.8	11.4	0.0	100.0	100.0	100.0	97.2	91.7	88.0	84.8	80.0	74.7	69.0	62.1	50.0	0.0	2190.0	104.5	104.5	2.67			
MINIMUM (*)				13.4	22.5	8.8	8.0	0.0	100.0	100.0	89.3	87.4	83.9	78.9	73.2	65.8	63.6	60.8	56.2	43.5	39.6	0.0	2018.0	97.4	97.4	1.64		

Note: These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

R1 Atterberg Limits (ASTM D4318)

R2 Moisture Content (ASTM D2216)

R3 Particle Size Distribution (ASTM D422)

R4 Laboratory Compaction (ASTM D1557)

R5 Specific Gravity (ASTM D854)

TABLE C2

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY**

**STAGE 3 CONSTRUCTION
ZONE CS RECORD TESTS - SUMMARY SHEET**

Date Printed: 02-Oct-01

Rev'd:02-Oct-01

M:\11162\14\Report\3\Figures[R-ZCS-summ.xls]Record Summary

Date Sampled	Sample No.	Location	R3 (Particle Size Distribution)			
			% <#200 (0.075 mm)	% <#400 (0.037 mm)	d ₈₅ (mm)	d ₁₅ (mm)
24-Oct-00	R/ZCS-3-1	U/S Berm - Ch. 34+00, top of berm	21.5	10.7	0.238	0.052
24-Oct-00	R/ZCS-3-2	U/S Berm - Ch. 38+00, toe of berm	24.9	12.9	0.212	0.043
24-Oct-00	R/ZCS-3-3	U/S Berm - Ch. 41+00, mid berm	21.6	11.2	0.278	0.051
24-Oct-00	R/ZCS-3-4	U/S Berm - 43+50, top of berm	21.7	10.8	0.257	0.051
24-Oct-00	R/ZCS-3-5	U/S Berm - 43+50, toe of berm	28.1	14.0	0.212	0.040
			MEAN	23.5	11.9	0.239
			MEDIAN	21.7	11.2	0.238
			MAXIMUM	28.1	14.0	0.278
			MINIMUM	21.5	10.7	0.212

Notes:

1. C3 (Particle Size Distribution) - ASTM D422

TABLE C3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

M:\111\621\14\Report\ZoneF\summary.xls>Data Sheet

Printed:05-Oct-01
Rev:02-Oct-01

***Knight Piésold*
CONSULTING**

PROJECT: MOUNT POLLEY TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

PERIOD: August 2000 to August 2001

PROJECT NO.: 111621/4

AREA:

TSF

R4

R6

Sample No.	Date Sampled	Location	Elevation (m)	R1			R2			R3 (Particle Size Distribution)			R4			R6									
				PL %	LL %	P1 %	Field m/c %	L1 %	P1 %	101.6	76.2	38.1	25.4	19.05	12.7	9.525	4.75	2.36	1.18	0.6	0.3	0.14986	0.07366	0.002	
R-ZF-3-1	19-Aug-00	26+10	935.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	88.6	51.8	34.5	23.2	15.5	10.4	6.1	3.1	-	
R-ZF-3-2	20-Aug-00	17+00	932.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	86.8	50	35	24.5	16.7	11.9	7.8	4.2	-	
R-ZF-3-3	21-Aug-00	20+00	933.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	80.1	46.6	31.8	21.7	14.9	10.1	6.4	3	-	
R-ZF-3-4	23-Aug-00	20+05	933.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	88.2	53.7	36.8	15	16.1	10.6	6.8	3.3	-	
R-ZF-3-5	24-Aug-00	25+50	935.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	81.6	42.1	27.3	17.8	14.6	8.2	5.2	3.1	-	
R-ZF-3-6	25-Aug-00	19+00	935.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	92.1	82.4	47.8	32.2	21.3	14.7	10.1	6.8	3.7	-
R-ZF-3-7B	8-Sep-00	19+00	935.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	84.0	47.7	29.8	15.5	8.5	5.6	3.8	2.4	-	-
R-ZF-3-8	8-Sep-00	19+00	935.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	80.4	42.0	27.1	18.2	11.6	6.7	3.9	2.4	-	-
R-ZF-3-9	28-Aug-00	24+50	937.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	78.9	45.5	30.4	21.1	14.7	10.0	6.8	3.8	-	-
R-ZF-3-10	29-Aug-00	23+40	936.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	78.8	38.3	24.4	15.2	9.6	6.5	4.5	2.7	-	-
R-ZF-3-11	30-Aug-00	21+80	937.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	88.2	48.7	30.6	19.6	12.4	8.1	5.6	3.6	-	-
R-ZF-3-12	6-Sep-00	16+20	940.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	77.7	39.0	26.9	18.5	12.4	7.3	4.0	2.1	-	-
R-ZF-3-13	7-Sep-00	21+30	940.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	98.7	75.6	37.9	24.6	16.6	10.2	5.5	3.9	-	-
R-ZF-3-14	8-Sep-00	16+40	939.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	81.0	43.2	24.5	12.4	7.0	4.6	3.2	2.1	-	-
R-ZF-3-15	8-Sep-00	17+50	937.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	77.9	39.7	22.3	12.2	7.6	5.0	3.6	2.3	-	-
R-ZF-3-16	8-Sep-00	18+50	937.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	76.8	31.6	17.4	9.9	6.6	4.0	3.6	2.4	-	-
R-ZF-3-17	10-Sep-00	21+40	937.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	84.1	46.6	30.4	20.3	13.9	9.0	6.0	3.4	-	-
R-ZF-3-18	10-Sep-00	22+20	937.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	80.1	45.3	27.2	19.8	13.8	9.3	5.4	2.4	-	-
R-ZF-3-19	11-Sep-00	25+50	938.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	76.4	44.6	32.4	22.0	13.4	9.3	6.4	3.7	-	-
R-ZF-3-20	11-Sep-00	22+80	937.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	80.7	43.6	27.6	15.5	7.8	4.6	3.2	2.2	-	-
R-ZF-3-21	12-Sep-00	22+00	939.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	87.5	51.5	34.2	22.4	14.1	8.3	4.5	2.4	-	-
R-ZF-3-22	15-Sep-00	19+00	939.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	88.3	53.7	37.0	25.5	17.8	11.5	7.1	3.3	-	-
R-ZF-3-23	16-Sep-00	17+60	939.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	85.6	49.7	33.9	23.4	15.8	9.9	5.4	2.7	-	-
R-ZF-3-24	19-Sep-00	26+20	941.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	88.7	48.3	31.9	21.5	14.8	9.2	5.1	2.1	-	-
R-ZF-3-25	20-Sep-00	20+60	941.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	89.1	54.3	36.4	24.3	16.2	9.4	4.7	1.7	-	-
R-ZF-3-26	21-Sep-00	21+20	941.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	84.4	44.1	30.3	23.7	20.1	14.5	9.3	4.8	-	-
R-ZF-3-27	21-Sep-00	22+80	937.0	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	80.7	43.5	29.0	19.4	13.0	8.9	5.0	2.3	-	-

TABLE C3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

MAN1162114\Report\Wigars\{R-ZF-summary.xls\}Data Sheet

Printed:03-Oct-01
Rev'd:02-Dec-01Knight Piésold
CONSULTING

PROJECT: MOUNT POLLEY TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

MATERIAL: Zone F - Filter Sand

Sample No.	Date Sampled	Location	El. (m)	R1		R2		R3 (Particle Size Distribution)								AREA :	TSF	R4	R6	
				Atterberg Limits	Field m/c	PL	LL	PI	%	%	%	%	%	%	%	%			Standard Proctor	Optimum m/c
R-ZF-3-28	4-Dec-00	23+00	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-29	4-Dec-00	23+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-30	5-Dec-00	24+25	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-31	28-Mar-01	29+00, 0.5 m DS of Zone S	941.8	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-32	28-May-01	37+00, 0.5 m DS of Zone S	936.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-33	17-Jun-01	42+00, 0.8 m DS of Zone S	936.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-34	20-Jun-01	35+00, 0.8 m DS of Zone S	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-35	20-Jun-01	43+00, 0.8 m DS of Zone S	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-36	10-Jul-01	33+50, 0.8 m DS of Zone S	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-37	10-Jul-01	43+00, 0.8 m DS of Zone S	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-38	19-Jul-01	33+00, 1.0 m DS of Zone S	938.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-39	28-Jul-01	43+00, 1.0 m DS of Zone S	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-40	28-Jul-01	33+00, 1.0 m DS of Zone S	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-41B	9-Aug-01	retest	-	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
R-ZF-3-42	21-Aug-01	39+24, 5 m DS of Zone S	942.5	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEAN	#DIV/0!	#DIV/0!	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEDIAN	#NUM!	#NUM!	4.5	#NUM!	#NUM!	100.0	100.0	100.0	99.3	83.3	69.9	45.7	32.3	22.3	12.6	9.4	7.0	#NUM!	#NUM!	#NUM!
MAXIMUM (*)	0.0	0.0	0.0	8.4	0.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0
MINIMUM (*)	0.0	0.0	0.0	2.3	0.0	100.0	100.0	100.0	94.9	83.3	57.6	36.2	26.0	17.7	12.6	9.6	6.8	2.7	0.0	0.0

Note : These are 100% limits.

IP - In progress

- R1 Atterberg Limits (ASTM D4318)
- R2 Moisture Content (ASTM D2216)
- R3 Particle Size Distribution (ASTM D422)
- R4 Laboratory Compaction (ASTM D1557)
- R6 Specific Gravity (ASTM D854)

TABLE C4

THE MOUNT POLLEY MINING CORPORATION MOUNT POLLEY MINE

**TAILLINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE-T RECORD TEST SUMMARY SHEET**

Knight Piésold CONSULTING

Knight Piésold															
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION															
MATERIAL: Zone T - Transition Zone															
Sample No.				Location				El. (m)				R1 Atterberg Limits			
				Pl.		LL		Pl.		LI		Field mc		R2	
				% %		%		%		%		%		R3 (Particle Size Distribution)	
				PL		LL		PI		6		3		1 1/2	
				%		%		%		%		%		3/8	
												#4		#8	
												#16		#30	
												#50		#100	
												#200		Clay	
												kg/m ³		R6	
														Specific Gravity	
														Optimum mo/c	
														Max Dry Density	
														kg/m ³	
														R4	
														Standard Proctor	
														#DIV/0!	
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Notes : These are 100% limits.

Atticberg I limits (ASTM D4318)

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Rev 0 - Issued with Report on Stage 3 Construction

TABLE C4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE T RECORD TEST SUMMARY SHEET

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION												PERIOD: June 2000 to August 2001														
MATERIAL: Zone T - Transition Zone												PROJECT NO.: 11162/14														
Sample No.	Date Sampled	Location	El. (m)	R1			R2			R3 (Particle Size Distribution)			AREA: TSF	R4	R6											
				PL %	Atterberg Limits LL %	PI %	Field m/c %	LI %	76.2	38.1	19.05	9.525	4.75	2.36	0.6	0.3	0.14986	0.07366	0.002	Standard Proctor Specific Gravity						
R2	Moisture Content (ASTM D2216)								152.4	6	3	1.5	0.75	0.375	0.187	0.0937	0.0469	0.0234	0.0165	0.0059	0.0029	Max Dry Density kg/m ³	Optimum m/c %	Clay %		
R3	Particle Size Distribution (ASTM D422)								6	3	1 1/2	3/4	3/8	#4	#8	#16	#30	#50	#100	#200						
R4	Laboratory Compaction (ASTM D1557)																									
R6	Specific Gravity (ASTM D854)																									

Rev 0 (02-Oct-01)

Printed 02-Oct-01

TABLE C5

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY**

**STAGE 3 CONSTRUCTION
ZONE C RECORD TESTS - SUMMARY SHEET**

Rev'd: 02-Oct-01

Printed: 02-Oct-01

M:\11162\14\Report\3\Figures\[R-ZC-summ.xls]Record Summary_r0

Date Sampled	Sample No.	Location	R3 (Particle Size Distribution)			
			Cobbles % > 3 inch	Gravel % 3 inch to #4	Sand % #4 to #200	Silt/Clay % < #200
2-Aug-00	R/ZC-3-1	Zone C Fill	56.4	34.7	8.4	0.5
21-Aug-00	R/ZC-3-2	Zone C Fill, Chainage: 22+55, Elevation 928.3	50.6	36.3	12.8	0.3
24-Aug-00	R/ZC-3-3	Zone C Fill, Chainage: 22+40, Elevation 929m	48.6	35.5	15.3	0.5
17-Sep-00	R/ZC-3-4	Zone C Fill, Chainage: 17+00, Elevation 938m	50.0	35.8	13.7	0.5
23-Sep-00	R/ZC-3-5	Zone C Fill, Chainage: 16+00, Elevation 941m	50.0	32.6	16.7	0.7
MEAN			51.1	35.0	13.4	0.5
MEDIAN			50.0	35.5	13.7	0.5
MAXIMUM			56.4	36.3	16.7	0.7
MINIMUM			48.6	32.6	8.4	0.3

Notes:

1. R3 (Particle Size Distribution) - ASTM D422

APPENDIX D

STAGE 3 CONSTRUCTION PHOTOS



August 2000 - Downstream buttress construction - Main Embankment



August 2000 - Rock Borrow

**MOUNT POLLEY MINE
REPORT ON STAGE 3 CONSTRUCTION**



September 2000 - Main Embankment construction



September 2000 - Perimeter Embankment Zone CS construction

**MOUNT POLLEY MINE
REPORT ON STAGE 3 CONSTRUCTION**



January 2001 - Perimeter Embankment Zone S construction



June 2001 - Perimeter Embankment Zone F construction

**MOUNT POLLEY MINE
REPORT ON STAGE 3 CONSTRUCTION**



June 2001 - Perimeter Embankment Zone T construction



July 2001 - Perimeter Embankment at El. 942.5 m

**MOUNT POLLEY MINE
REPORT ON STAGE 3 CONSTRUCTION**

APPENDIX E

STAGE 3 DESIGN MODIFICATIONS

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June 19, 2000

FILE NO.:

11162/13-01

DATE:

June 29/00

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

DC - 1

PROJECT:

McPolley Stage 3 ConstructionPROJECT NO.: 11162/13

AREA OF WORK:

Main Embankment

GENERAL DESCRIPTION OF PROPOSED WORK:

Where Stage 3 geotextile is to be tied into existing geotextile
 at the downstream edge of the existing zone T road,
 the Contractor may overlap the existing and Stage 3 geotextile
 as shown on the attached sketch

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets:

1

Reference Drawings / Clauses:

Technical Specs, clause 7.3.3(iii)

Signed:



Originator:

FOR VANCOUVER OFFICE USEDate Received: June 29/00

Proposed change / substitution not approved:

approved as submitted: DB

approved as amended: _____

No. of sheets attached: _____ (amendments only)

Signed:

Engineer:

K. Brown

Director:

K. BrownDate Returned: June 29/00

Knight Piesold Ltd.
 1400 - 750 West Pender Street
 Vancouver, B.C. V6C 2T8
 Tel: (604) 685-0543
 Fax: (604) 685-0147

Notes:

1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

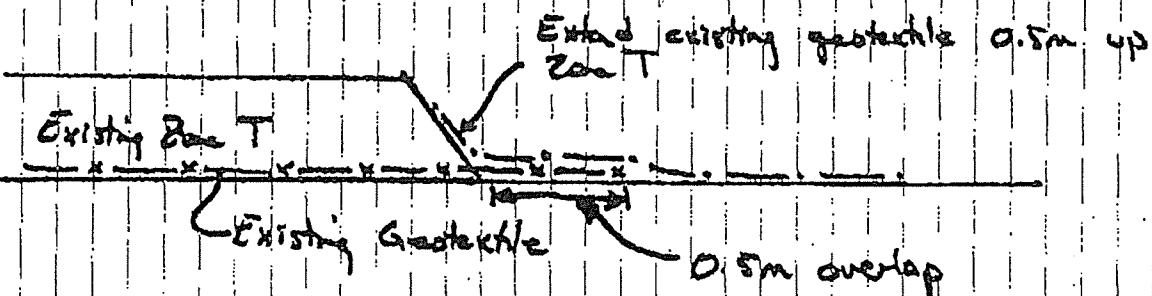
E 1

Knight Piésold Ltd.
CONSULTING ENGINEERS

Project: Mt. PolleyCalculations for: Existing / Stage 3 Geotextile overlapCalculations by: AM

Checked by:

Date:

Project No.: 11162/13Date: Jan 28/06Sheet 1 of 1

E2

N:\11162\13\1\GPO\17\Rev\APPENDIX\Design CM.xls\5.xls

June 19, 2000

FILE NO.:

11162/13

DATE:

June 29/00DC-2

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

PROJECT:

Mt. Polley Stage 3 Construction

PROJECT NO.:

11162/13

AREA OF WORK:

Main Embankment

GENERAL DESCRIPTION OF PROPOSED WORK:

Routing of personnel leads across Zone C and Zone T

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets:

2

Reference Drawings / Clauses:

11162-13-256

Signed:

CJLHOriginator: A. Wallace

FOR VANCOUVER OFFICE USE

Date Received: June 29/00

Proposed change / substitution not approved:

approved as submitted:

KJB

approved as amended:

No. of sheets attached: _____ (amendments only)

Signed:

Engineer:

K Brown

Director:

K Brown

Date Returned:

June 29/00

Knight Piesold Ltd.
 1400 - 750 West Pender Street
 Vancouver, B.C. V6C 2T8
 Phone: (604) 685-0543
 Fax: (604) 685-0147

Notes:

1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

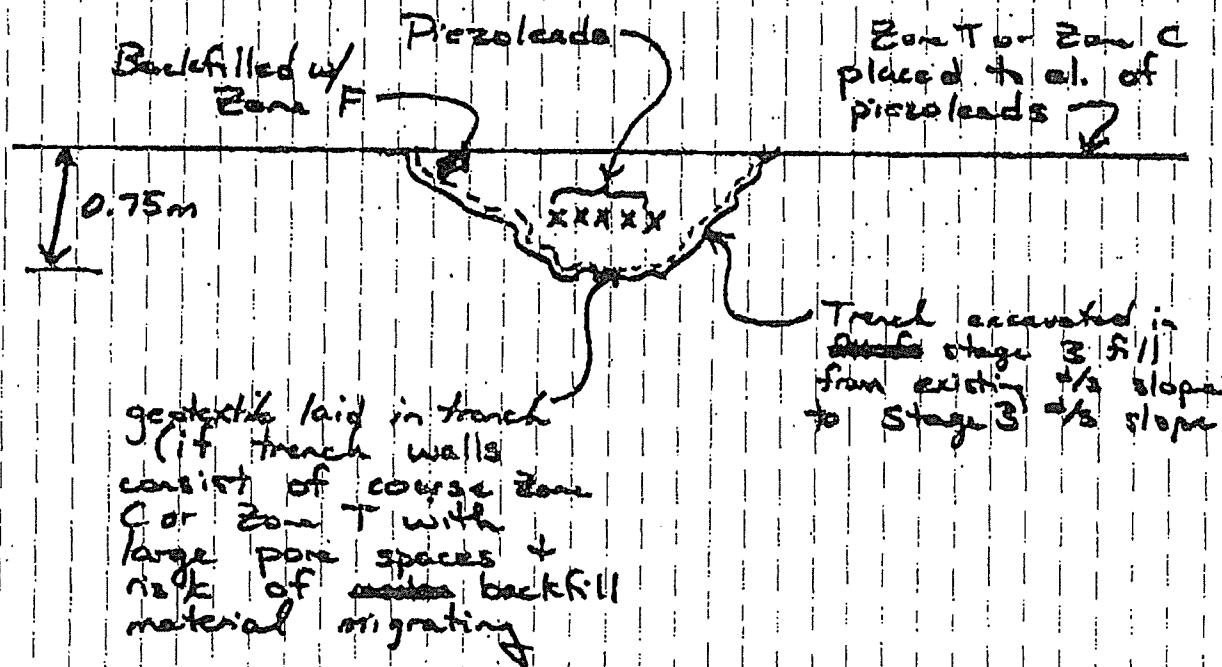
E3

Knight Piésold Ltd.
CONSULTING ENGINEERS

Project: Mt. Polley
 Calculations for: Piezotrace Detail
 Calculations by: ABW
 Checked by: _____ Date: _____

Project No.: 11162/13
 Date: July 28/00
 Sheet 1 of 2

Option #1



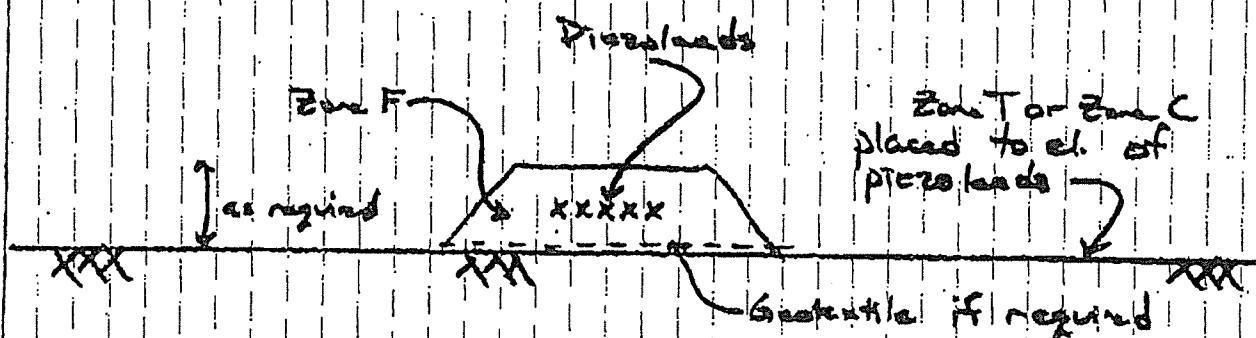
Note: If there is a risk of Zone F (crushed rock)
damaging the piezoleads, they could be wrapped
in geotextile for protection

Knight Piésold Ltd.
CONSULTING ENGINEERS

Project ME, Polley
Calculations for: Pier T Trench Detail
Calculations by: ABW
Checked by: _____ Date: _____

Project No.: 11162/13
Date: June 28/00
Sheet 2 of 2

OPTION #2



Note: Wrap pier heads in geotextile if there is a risk of damaging the pier heads

GS

M:\11162\13\Ref\07\RevD\API\END\XDY\Design Chg.xls\Sheet1

June 19, 2000

FILE NO.: 11162/13.P01DATE: Jun 30/00

DC-3

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTIONPROJECT: Mt. PolleyPROJECT NO.: 11162/13AREA OF WORK: Main Embankment

GENERAL DESCRIPTION OF PROPOSED WORK:

Change to Stage 3 Main Embankment Piezometers from high pressure to low pressure. Piezometers to be re-named as follows & will allow use of piezos currently on site (range 0-50 psi)

A2-PE2-09 changes to A2-PE1-09

B2-PE2-07 changes to B2-PE1-07

C2-PE2-09 changes to ~~C2-PE2-09~~ C2-PE1-09

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets: 0

Reference Drawings / Clauses:

11162-13-256 Rev. 011162-13-258 Rev. 0Signed: Al WOriginator: A. WallaceFOR VANCOUVER OFFICE USEDate Received: July 4/00

Proposed change / substitution not approved: _____

approved as submitted: JRK

approved as amended: _____

No. of sheets attached: _____ (amendments only)

Signed:

Engineer:

Director:

Date Returned: July 5/00

Knight Plesold Ltd.
 1400 - 750 West Pender Street
 Vancouver, B.C. V6C 2T8
 Phone: (604) 685-0543
 Fax: (604) 685-0147

Notes:

1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

E6

M:\1162\SVR\007\Revs\APPENDIX\Design Change\SI\sub1

June 19, 2000

FILE NO.:

11162/13.F01

DATE:

June 30/00

DC-4

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

PROJECT:

ME. Policy

PROJECT NO.:

11162/13

AREA OF WORK:

Main Embankment

GENERAL DESCRIPTION OF PROPOSED WORK:

Lower top of Zone F as per attached sketch.
Top of Zone F to be exposed & vertical chimney
extended during stage 4

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets:

Reference Drawings / Clauses:

Signed:

Originator:

FOR VANCOUVER OFFICE USE

Date Received:

July 9/00

Proposed change / substitution not approved:

approved as submitted: JRK

approved as amended:

No. of sheets attached:

(amendments only)

Signed:

Engineer:

Director:

Data Returned:

July 9/00

Knight Piesold Ltd.
 1400 - 750 West Pender Street
 Vancouver, B.C. V6C 2T8
 Phone: (604) 685-0543
 Fax: (604) 685-0147

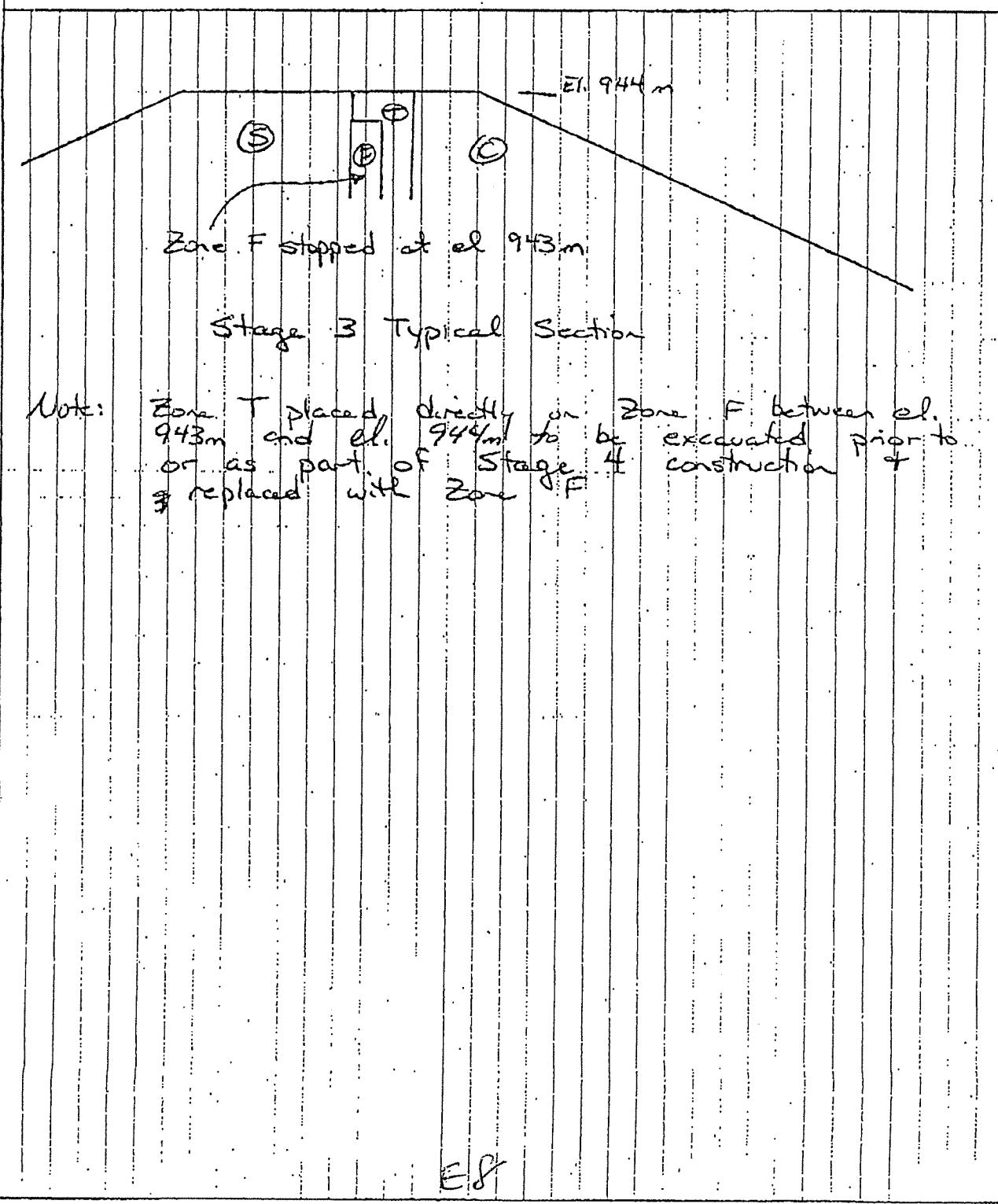
Notes:

1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

Knight Piésold Ltd.
CONSULTING ENGINEERS

Project: Mt Polley Stage 3 Constr.
 Calculations for: Required Obs.
 Calculations by: ABW
 Checked by: _____ Date: _____

Project No.: 11162/13
 Date: June 30/00
 Sheet 1 of 1



FILE NO.:

11162/13, FOI

DATE:

July 5/00

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

OBJECT:

Mt. Polley Stage 3 Const.PROJECT NO.: 11162/13

AREA OF WORK:

Main Embankment

GENERAL DESCRIPTION OF PROPOSED WORK:

Change downstream slope of Main Embankment buttress from 2H:1V to 1.5H:1V in order to move buttress toe inside toe drain conveyance pipe

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets:

1

Reference Drawings / Clauses:

11162 - 13 - 215 Rev. 2

Signed:

Al WOriginator: A. WallaceFOR VANCOUVER OFFICE USE

Date Received:

July 5/00

Proposed change / substitution not approved:

approved as submitted:

approved as amended: JRK

No. of sheets attached:

1

(amendments only)

Signed:

Engineer:

JL

Director:

R. Bevin

Date Returned:

July 7/00**Knight Piesold Ltd.**

1400 - 750 West Pender Street
 Vancouver, B.C. V6C 2T8
 Phone: (604) 685-0543
 Fax: (604) 685-0147

Notes:

1. Originator to keep a copy of all submissions and attachments.
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E9

Knight Piésold Liu.

CONSULTING ENGINEERS

Project: Mt. Polley

Calculations for: Design Change for 45° slope of M. Emb buttress.

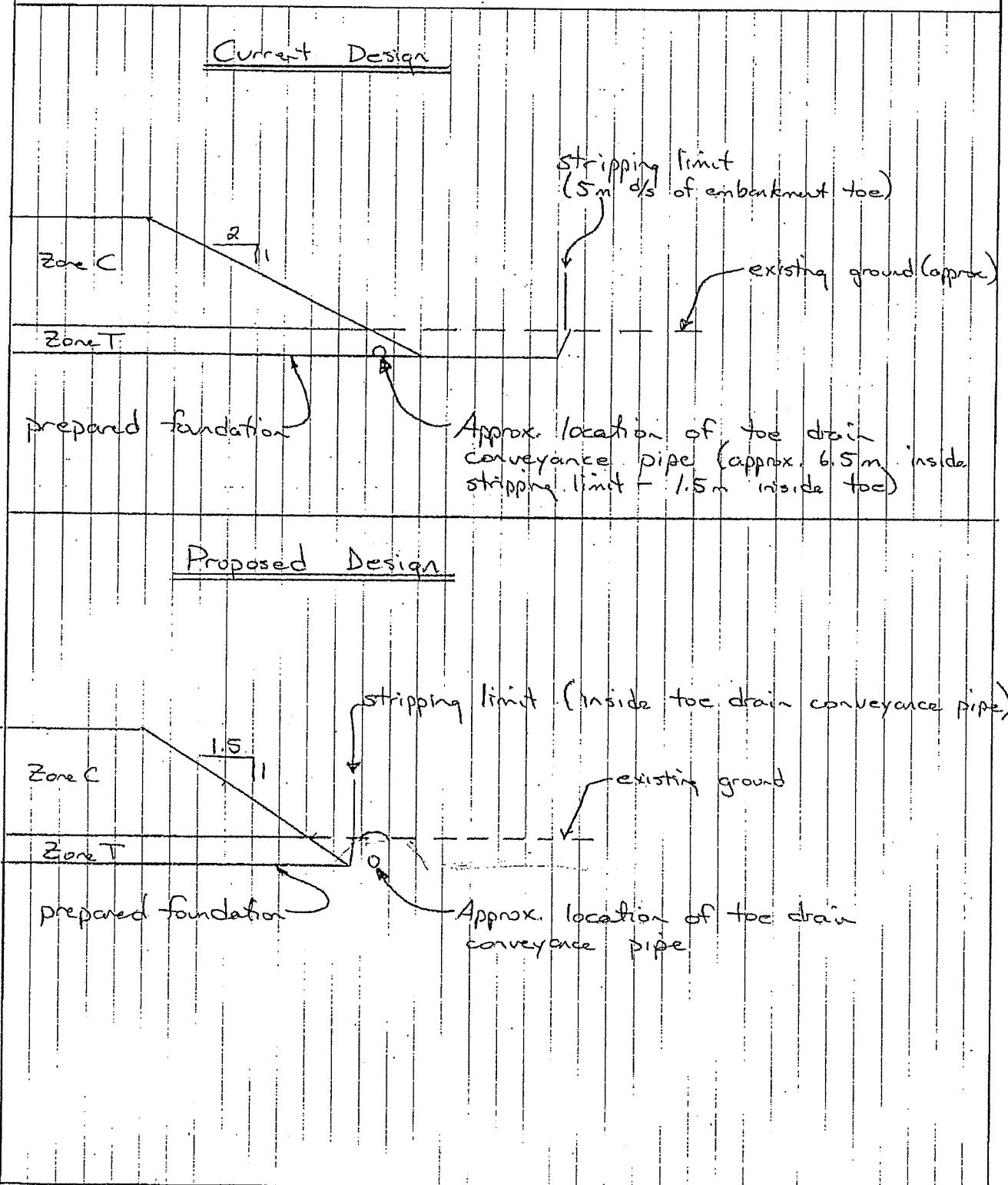
Calculations by: ABW

Checked by: _____ Date: _____

Project No.: 11162/13

Date: July 5/00

Sheet 1 of 1



E10

תְּהִלָּה יְהוָה כָּלֵב אֶת-עַמּוֹתָיו וְאֶת-עֲמֹתָיו כָּלֵב אֶת-עַמּוֹתָיו

JUN 19 2000

FILE NO.: 11162/13.

DATE: July 17/00

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

PROJECT: Mt. Polley Stage 3 Constr. PROJECT NO.: 11162/13.E

AREA OF WORK: Main Embankment & Foundation

GENERAL DESCRIPTION OF PROPOSED WORK:

GENERAL DESCRIPTION OF PROPOSED WORK:
Gutter to be installed as per attached typical sections

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets: 3

Reference Drawings / Clauses: 11162-13-215 Rev. 2

Signed:



Originator: Andrew Wallace

FOR VANCOUVER OFFICE USE

Date Received: July 17/50

Proposed change / substitution not approved: _____

approved as submitted:

approved as amended:

No. of sheets attached: _____ (amendments only)

Signed: _____ Engineer: PJS

Director: Karen

Date Rerumed: July 25, 2022

Knight Piesold Ltd.
1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Phone: (604) 685-0543
Fax: (604) 685-0147

Notes:

1. Originator to keep a copy of all submissions and attachments.
 2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

61

Knight Piésold Ltd.

CONSULTING ENGINEERS

Project: ME. Polley

Calculations for: Geotextile design change

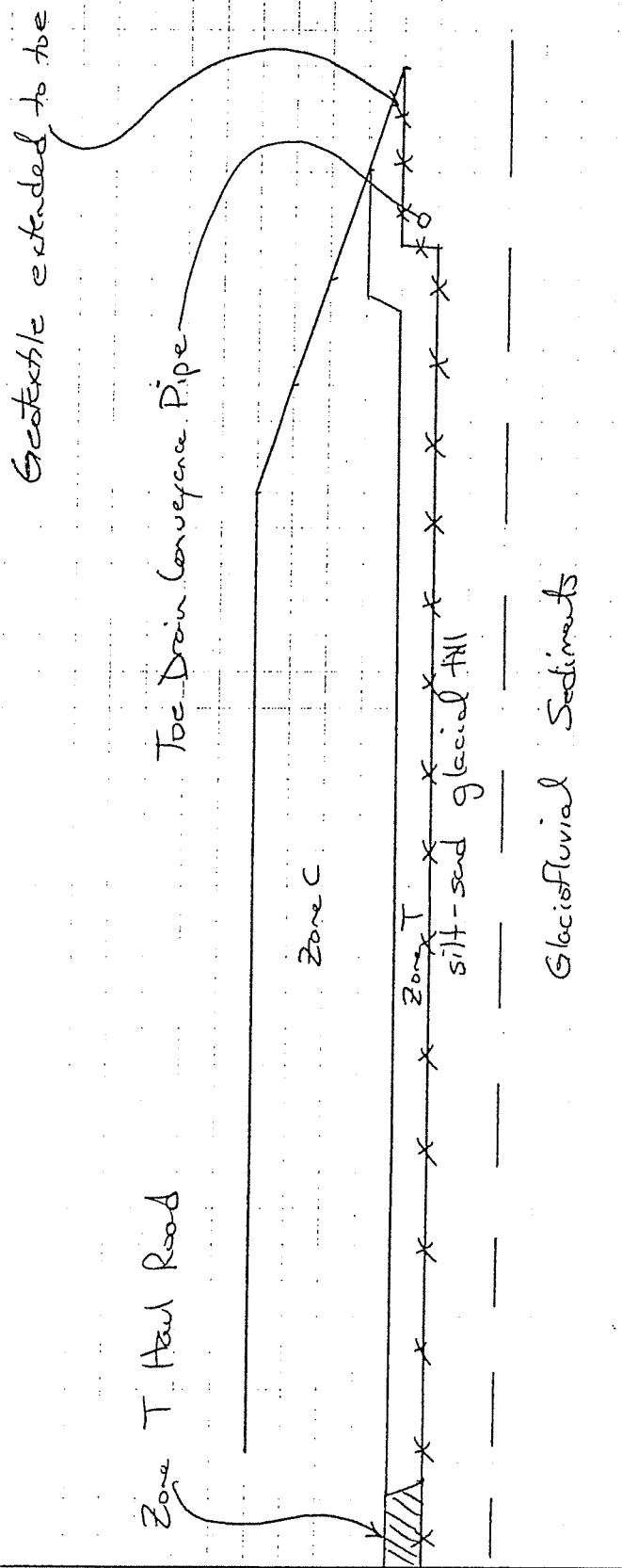
Calculations by: ABW

Checked by: _____ Date: _____

Project No.: 11162/13

Date: July 17/00

Sheet 1 of 3



Note: Foundation materials subject to artesian pressures.

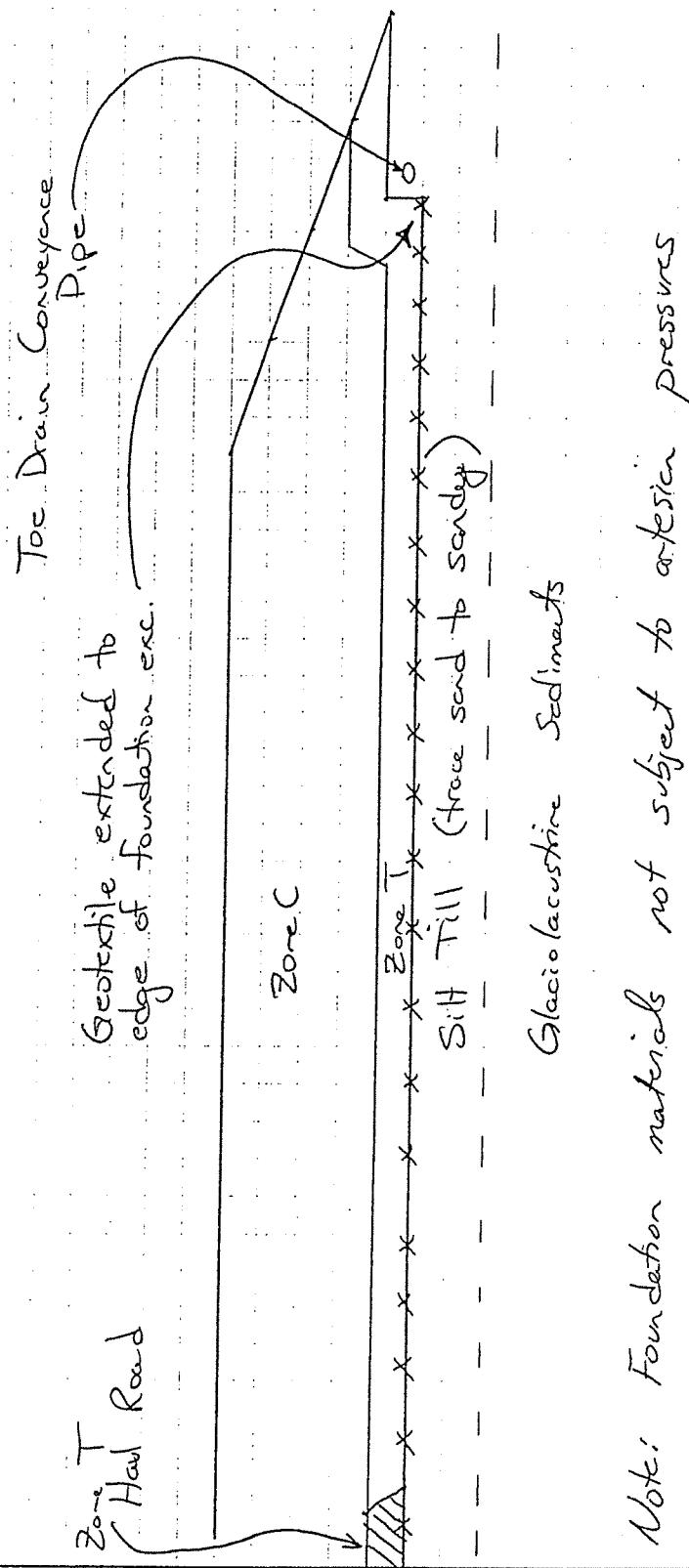
Typical Section Site M100 to M100

Knight Piésold Ltd.

CONSULTING ENGINEERS

Project: ME Polley
Calculations for: Geotextile design change
Calculations by: ABW
Checked by: _____ Date: _____

Project No: 11162/13
Date: July 21/00
Sheet 2 of 3



Note: Foundation materials not subject to cohesion pressures

Typical Section Sta 19400 to 21100

Knight Piésold Ltd.

CONSULTING ENGINEERS

Project: Mt. Polley

Calculations for: Groof file Design Change

Calculations by: ABW

Checked by: _____ Date: _____

Project No.: 11162/13

Date: July 17/00

Sheet 3 of 3

Toe Drain
Conveyance Pipe

Geotextile extended to Km downstream of Zone T heel road. X gradually reduced from 35m @ sta 21+00 (full shoulder) to 10m @ sta 23+00

Zone C

Silky Sand Till

Glacio/lacustine Sediments

Typical Section Sta 21+00 to 23+00

FILE NO.:

11162/13, FOI, FAS - F12

DC-10

DATE:

Oct. 16 /00

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

PROJECT:

MT. POLLEY - STAGE 3 CONSTRUCTION

PROJECT NO.:

11162/13

AREA OF WORK:

WALLHEAD TEE DRAIN OUTLET / CONDUIT PIPE AT RIGHT
AMENT MASH EMBANKMENT

GENERAL DESCRIPTION OF PROPOSED WORK:

REPAIR TO 200 mm HAPE PIPE WHERE IT HAS BEEN BROKEN + "PUSHED IN"
BY CONSTRUCTION TRAFFIC. EXCAVATE AND REMOVE DAMAGED SECTION, REPLACE
WITH 200 mm HAPE, AND CONNECT USING VICTAILE STYLE 995 COUPLING
ASSEMBLY (AS opposed to Flaring pipe 'in the hole'). Backfill with compacted
soil sand to max 100 mm lifts.

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets: 3 — Dwg. #10 Showing location of REPAIR
SPECS. FOR STYLE 995 COUPLINGReference Drawings / Clauses: 11162-10-125
S10-15-01-1625-202

Signed:

Originator: JEFF CLARKDate Received: Oct 16/00

Proposed change / substitution not approved:

approved as submitted:

approved as amended:

No. of sheets attached:

(amendments only)

Signed:

Engineer:

Director:

Date Returned: Oct 16/00

Notes:

1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form, with attachments, marked up as described above.

Knight Piesold Ltd.
1400 - 730 West Pender Street
Vancouver, B.C. V6C 2T8
Phone: (604) 685-0543
Fax: (604) 685-0147

1 of 3

E 15

RECEIVED TIME

OCT. 17. 3:29PM

OCT. 16, 2000 1:55PM MOUNT POLLEY MINING PRINT TIME OCT. 17. 3:32PM

FILE NO.:

11162/13. FOI. FDS. F12

DC-11

DATE:

OCT. 16/00

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

PROJECT: MT. POUET - STA. 3 CONSTRUCTION

PROJECT NO.: 11162/13

AREA OF WORK: PERIMETER EMBANKMENT - MECHANICAL PLACEMENT OF
UPSTREAM CYCLONE SAND BERM

GENERAL DESCRIPTION OF PROPOSED WORK:

CONCRETE SAND BEAM TO DIMENSIONS SHOWN ON ATTACHED SKETCH,
BETWEEN SE & SE. SAND TO COME FROM EXIST MATERIAL FROM
DOWNSTREAM TRAIL BEAM OR FROM STOCKPILE IN BA 84. COARSE REINFORCING
LAYER TO BE PLACED AS NECESSARY, SAND TO BE PLACED IN LAYERS
1000 MM LISTS & COMPACTED TO 95% SPC. IS UPSTREAM STABILITY
A CONCERN, OR CAN REPAVED IF NECESSARY?

IT BE

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets: 2 / SHEETS OF PROPOSED BERM

Reference Drawings / Clauses:

Signed:

JEFF CLARKE

Originator:

Date Received: Oct 16/00

Proposed change / substitution not approved:

approved as submitted:

approved as amended:

No. of sheets attached: _____ (amendments only)

Signed:

Engineer:

Director:

Date Returned:

Knight Piésold Ltd.
1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Phone: (604) 685-0343
Fax: (604) 685-0147

Notes:

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1 of 2
E16

FILE NO.:

11162/13.0700DC-12

DATE:

SEPT 10/00REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

PROJECT:

Mt. Polley - Stage 3 Construction

PROJECT NO.:

11162/13

AREA OF WORK:

TAILINGS STORAGE FACILITY - MAIN ENHANCEMENT ZONE F

GENERAL DESCRIPTION OF PROPOSED WORK:

CHANGE FROM STAGE 3 ZONE F COARSE LIMIT OF 0.7 mm TO STAGES 1
AND 2 VALUE OF 1.0 mm.

Please review the proposed change / substitution as per the attached sheet.

No. of Sheets: 2 LETTER - FAX OO-B35, SEPT. 10/00
ATTACHED FIGURE 1

Reference Drawings / Clauses:

DRAWING 11162 - 13 - 104

Signed:

Originator: JEFF CLARKDate Received: Sept 10/00

Proposed change / substitution not approved: _____

Approved as submitted: JPCApproved as amended: JPCNo. of sheets attached: 1

(amendments only)

Signed:

Engineer:

Director:

Date Returned: Oct 17/00

Knight Piersuld Ltd.
1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Tel: (604) 685-0543
Fax: (604) 685-0147

Notes:

1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

E17

Knight Piésold

CONSULTING

Project/Assignment Name:	<u>Mount Polley</u>	P/A No.:	<u>11162/13</u>
Area:		Task No.:	<u>0640</u>
Calculations for:		Date:	<u>OCT 16/00</u>
Calculations by:	<u>JELL.</u>	Calculation File No.:	
Input from:		Sheet:	<u> </u> of <u> </u>
Reviewed by:			
Date of review:			

Review Filter Relationship between FILTER
SAND AND GLACIAL TILL (ZONE 5) PLACED
DURING STAGE 1 & 2 CONSTRUCTIONS.

Zone 5 (Flow Record Samples)

$$\text{MIN } d_{5} = 0.43 \text{ mm}$$

$$\text{MAX } d_{15} \approx 0.002 \text{ mm}$$

PROPOSAL CHANGE TO ZONE F COMPRISES CHANGING
THE COARSE LIMIT D_{5} FROM 0.7 mm TO 1.0 mm.

CHECK RELATIONSHIP TO PREVENT PIPING.

$$\frac{D_{15}}{d_{5}} = \frac{1.0 \text{ mm}}{0.43 \text{ mm}} = 2.3 < 4 \therefore \text{OK}$$

CHECK PERMEABILITY CONTRAST

$$\frac{D_{15}}{d_{15}} = \frac{1.0 \text{ mm}}{0.002 \text{ mm}} = 500 >> 5 \therefore \text{OK.}$$

NOTE: NEED TO DETERMINE GRADATION OF UNDERFLOW
FROM LINATOR SEPARATORS. THE CHANGE
MAY NOT BE SUITABLE FOR A FILTER
AGAINST CYCLOMED SAND.

E18

FILE NO.:

11162/13.F12

DC-13

DATE:

OCT. 23/00

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION

PROJECT: MT. POLLEY - STAGE 3 CONSTRUCTION

PROJECT NO.: 11162/13.0720

AREA OF WORK: PROPOSED EMBANKMENT NORTH ABUTMENT

GENERAL DESCRIPTION OF PROPOSED WORK:

(B&BT)

CONSTRUCTION OF UPSTREAM BEAM USING FINE REINFORCED INSTEAD OF CYCLONE
SAND TO PROVIDE IN-LAYA RUN-UP - BASEBED TO BE CONSTRUCTED TO
CONFIGURATION SHOWN ON ATTACHED SKETCH ALONE APPROX. 75M LONG SECTION.
CYCLONES CURRENTLY NOT ABLE TO REACH THIS AREA, & EXISTING HAS
TRAPPED WATER & SEDIMENT AT NORTH ABUTMENT. FOUNDATION TO BE PREPARED BY
REMOVING UNSTABLE / SOIL MAT'L DOWN TO 0.6. / TAILINGS.

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets: 1 SKETCH

Reference Drawings / Clauses:

Signed:

Originator:

JEFF CLARK

Date Received: OCT 23/00

Proposed change / substitution not approved:

approved as submitted:

approved as amended:

No. of sheets attached: (amendments only)

Signed:

Engineer:

Director:

Date Returned: OCT 23/00

Knight Plesold Ltd.
1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Phone: (604) 685-0543
Fax: (604) 685-0147

Notes:

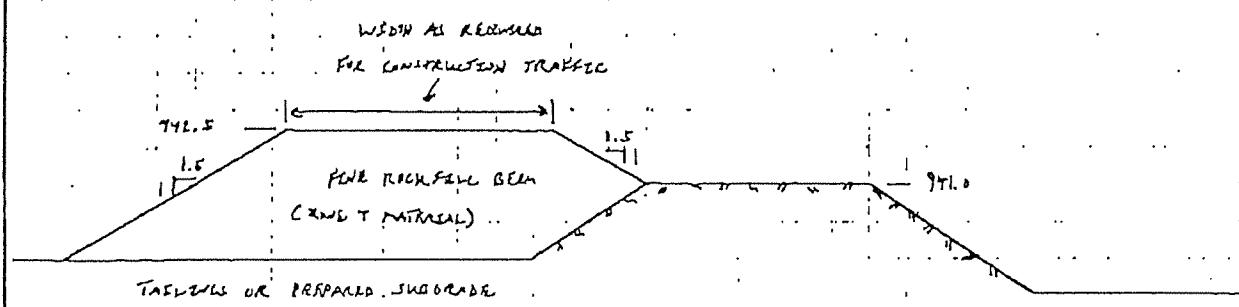
1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

E19

Knight Piésold Ltd.
CONSULTING ENGINEERS

Project: Mt. Polley - Stage 3 construction
 Calculations for: _____
 Calculations by: JBC
 Checked by: _____ Date: _____

Project No.: 1162/13
 Date: OCT. 20/00
 Sheet 1 of _____



UPSTREAM ROCKFILL DAM AT
NORTH AQUITAIN PERIMETER ENHANCEMENT

FIGURE 1.4

E 20

File No.: 11162/14.F01/F05

Date: July 10, 2001

REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE/SUBSTITUTION

PROJECT: Mount Polley Mine

PROJECT NO.: 11162/14.0600

AREA OF WORK: Tailings Storage Facility, Perimeter Embankment

GENERAL DESCRIPTION OF WORK: Construct Perimeter Embankment to the lines and grades shown on the attached sketches (Sections 11162-13-125 1/120 and 2/120). Minimum elevation of Zone C to be 935 m in all areas except on downstream cycloned sand trial berm.

Please review the proposed change/substitution as per the attached sheets.

No. of Sheets: 2

Signed: _____
(originator)

Reference Drawings/Clauses: Drawing 11162-13-125, Section 1/120 and Section 2/120

FOR VANCOUVER OFFICE USE

Date Received: July 10/01

Proposed change/substitution not approved: _____

approved as submitted: _____

approved as amended: KJB : 2H:1V sl-pa instead of
1.5H:1V !

No. of sheets attached: 2 (amendments only)

Signed: _____ Engineer: K Brown

Director: K Brown

Date Returned: July 11/01

Knight Piesold Ltd.
1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Phone: (604) 685-0543
Fax: (604) 685-0147

Notes:

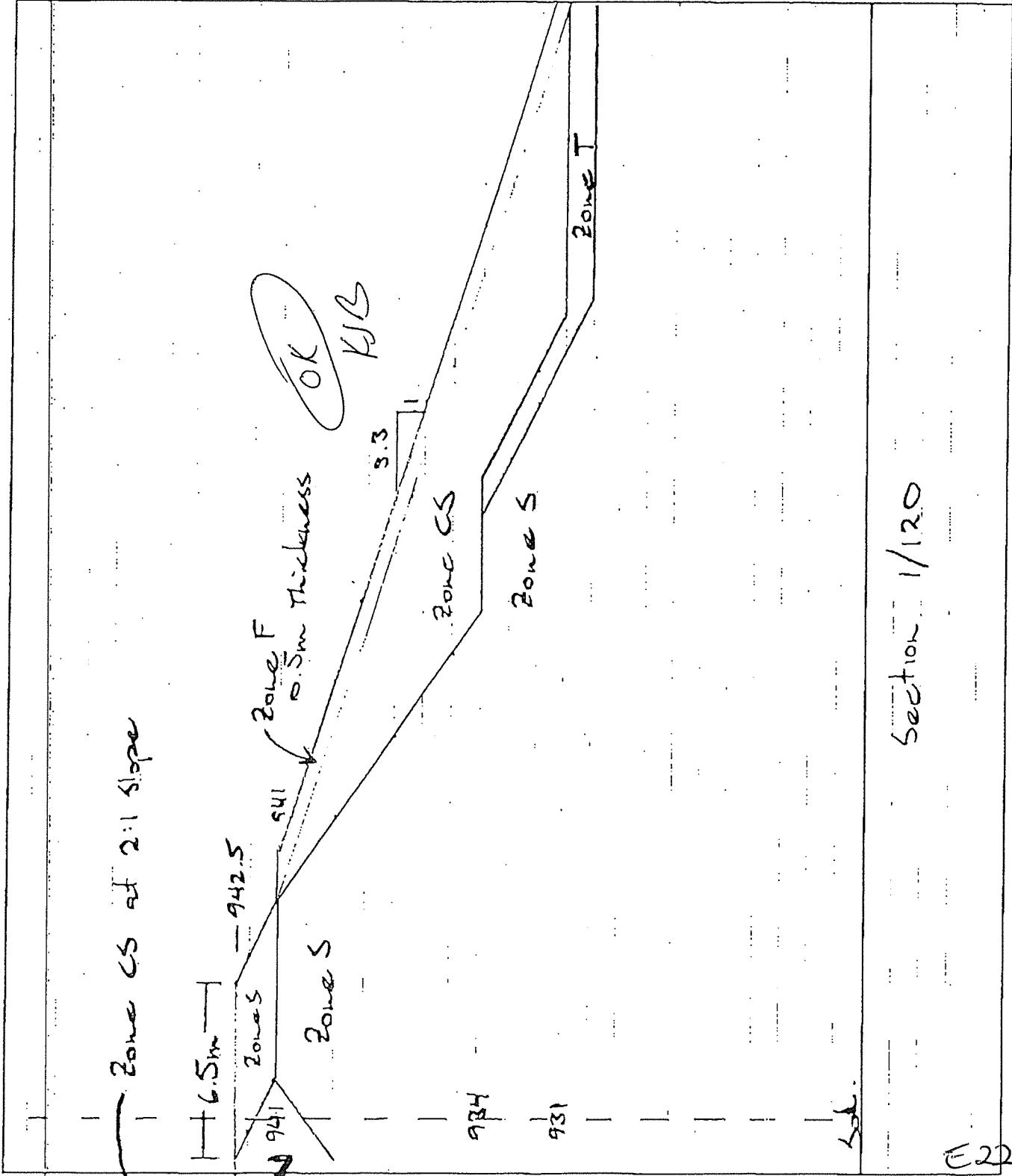
1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

E21

Knight Piésold

CONSULTING

Project/Assignment Name:	P/A No.:
Area:	Task No.:
Calculations for:	Date:
Calculations by: _____ Reviewed by: _____	Calculation File No.:
Input from: _____ Date of review: _____	Sheet: _____ of _____



Knight Piésold

CONSULTING

Project/Assignment Name: _____

Area: _____

Calculations for: _____

Calculations by: _____

Input from: _____

P/A No.: _____

Task No.: _____

Date: _____

Calculation File No.: _____

Sheet: _____ of _____

