BELLEKENO (#22)
(MINFILE# 105M 001y)

1. LOCATION AND ACCESS

Most of the Bellekeno site can be accessed by vehicle along the Sourdough Hill Trail about 2.5 to 3 km out of Keno City. The 625 level adit can be accessed along a maintained trail running on the north side of Lightening Creek out of Keno City and up Thunder Gulch. The site rises from an elevation of about 125 m at the 625 level adit to about 1400 m at the backfill site. The following UTM coordinates of the Bellekeno sub-sites are shown below.

SITE LOCATIONS		
	UTM Northing	UTM Easting
Bellekeno 625 level adit	7086760 m N	487480 m E
Bellekeno 200 level adit	7086650 m N	487100 m E
Bellekeno 100 level adit	7086460 m N	486890 m E
Mayo Mines adit	7086780 m N	487220 m E
Bellekeno Backfill site	7086260 m N	486580 m E
Eureka	7086240 m N	487120 m E

2. SITE PHYSIOGRAPHY

The Bellekeno site lies on the northeast slope of Sourdough Hill. Except for Eureka, the Bellekeno subsites are roughly aligned in a linear fashion up-slope from the 625 level adit to the backfill site. Surface water drainage from the area runs down the slope toward Thunder Gulch and Lightening Creek.

3. GEOLOGY AND MINERALIZATION

The major rock type observed at the Bellekeno site was a grey quartzite known locally as Keno Hill Quartzite. The minor rock types observed at the site included grey and black phyllite, white quartz and greenstone. The mineralization consisted of rare siderite, sphalerite, galena and pyrite. The sulphides encountered included sphalerite, pyrite, and galena. The carbonates present included siderite and minor occurrences of calcite. The minfile for Bellekeno reports that the quartzite in the area is locally calcareous.

4. SITE HISTORY

The minfile reports that work at the Bellekeno site began in 1921 at the Eureka sub-site and continued there until 1929. The development of the modern underground workings at Bellekeno

occurred in the early fifties at the 100 and 200 level adits and at the Mayo Mines adit. Production at the 625 level adit occurred from 1986 to 1990. The site is currently under care and maintenance status (Minfile).

5. MINE DEVELOPMENT

5.1 Mine Openings And Excavations

Bellekeno 625 level adit (photo 22-1)

This sub-site is currently active under care and maintenance status. The 625 level adit serves as the main access to 8 levels of mine developments. It is connected to the 100 and 200 level adits. The adit portal is housed inside an adit building attached to a dump shed (photo 22-3).
Location: The Bellekeno 625 level adit sub-site is located near the confluence of Thunder Gulch and Lightening Creek. The adit is located at the south end of the adit building (see Figure 2).
Dimensions (L x W x H): 20 m x 5 m x 2.5 m (exterior portal dimensions)
Supports: The portal is supported by timbers and the underground workings are supported with timbers, bolts and wire mesh.
Condition: The portal and underground workings are in good condition and continue to be maintained by United Keno Hill Mines.
Accessibility: The adit building and the portal are left open but access to the underground workings is limited by locked entrances to the deeper areas of the mine.

Bellekeno 200 level adit (photo 22-7)

This sub-site is currently active under care and maintenance status. The 200 level adit provides ventilation and serves as an escape route for the modern workings at lower levels. It is connected to the 100 and 625 level adits.
Location: The adit is located at the end of a road that turns left off Sourdough Hill Trail about 500 m before the power lines (see Figure 3).
Dimensions (L x W x H): 5 m x 5 m x 2.5 m (exterior portal dimensions)
Supports: The portal is supported by logs ranging in diameter from 3 to 6 inches
Condition: The portal is constructed of logs and planks. It has no foundation or roofing material other than the planks. It is in fair condition and continues to be maintained by United Keno Hill Mines.
Accessibility: The adit entrance is left open to allow ventilation and provide an escape route.

Bellekeno 100 level mine openings (photo 22-10 and photo 22-11)

The 100 level adit and shaft are abandoned but they are still connected to the Bellekeno 200 and 625 level adits.

Location: The adit and shaft are located just off Sourdough Hill Trail on opposite sides under the power lines (see Figure 1).

Dimensions: The adit dimensions could not be determined due to the collapse of the portal. The shaft is 2 m x 1.5 m and about 15 m deep.

Supports: The portal is no longer supported.

Condition: Both the adit portal and the shaft house have collapsed.

Accessibility: These mine openings are accessible.

Mayo Mines adit (photo 22-12)

The Mayo Mines adit is abandoned and it is not connected to other mine developments in this area.

Location: This adit is located about 200 m down-slope of the Bellekeno 200 level adit and about 100 m northwest of the power lines (see Figure 1).

Dimensions: The adit dimensions could not be determined due to the collapse of the portal.

Supports: The portal is no longer supported.

Condition: The adit portal has collapsed.

Accessibility: The adit can be accessed on foot from the Bellekeno 200 level adit. Viewing the adit's waste rock pile from the other side of Lightening Creek helps to locate it.

Eureka mine openings

The Eureka mine openings are an abandoned series of 3 shafts and a raise developed in the 1920s. They are not connected to the Bellekeno main workings. There may be an adit associated with these workings but it was not observed.

Eureka Shaft 1 (photo 22-15 and 22-16)

Shaft 1 is the most obvious because it lies in the middle of a trail leading off of Sourdough Hill Road. It is connected to an adjacent open stope that has broken through to the surface (see Figure 5).

Location: Shaft 1 is located about 80 m along a trail that turns off of Sourdough Hill Trail about 300 m beyond the power lines and 150 m before a hairpin turn.

Dimensions: 2 m x 2m and about 6 m deep. The stope opening is 10 m long, 2 m wide, and filled to within 2m of the surface.

Condition: The shaft and stope remain unstable and could be prone to continued collapse.

Accessibility: Shaft 1 is accessible on foot from Sourdough Hill Road.

Eureka Raise 1 (photo 22-17)

Raise 1 is a timbered raise situated in a mound north of Shaft 1.
Location: Raise 1 is located 25 m north of Shaft 1 (see Figure 5).
Dimensions: 1.2 m x 1.3m and about 9 m deep.
Condition: The timbers of the raise are in poor condition and may be prone to collapse.
Accessibility: Raise 1 is accessible on foot from Sourdough Hill Road.

Eureka Shaft 2

Shaft 2 is a small collapsed shaft.
Location: Shaft 2 is located 25 m south of Shaft 1 through the bushes (see Figure 5).
Dimensions: The dimensions of this shaft could not be determined due to its collapsed state.
Condition: This shaft is collapsed.
Accessibility: Shaft 2 is accessible on foot from Sourdough Hill Road.

Eureka Shaft 3 (photo 22-18)

Shaft 3 is a large shaft that is partially collapsed. There is a waste rock pile and several structures adjacent to it.
Location: Shaft 3 is located 12 m south of Shaft 2 (see Figure 5).
Dimensions: 2 m x 2m and filled to within 3 m of the surface.
Condition: This shaft remains unstable and could be prone to continued collapse.
Accessibility: Shaft 3 is accessible on foot from Sourdough Hill Road.
Trenches 1 to 5
Trenches 1 to 5 is a series of shallow trenches.
Location: Trenches 1 to 5 are located just south of Sourdough Hill Road at a hairpin turn 360 m below the backfill pad (see Figure 1).
Dimensions: The trenches range in length from 30 m to 60 m. They are all about 3 m wide and 1 m deep.
Condition: stable - 60% revegetated
Accessibility: Trenches 1 to 5 are accessible on foot from Sourdough Hill Road.

Trench 6

Large deep trench.
Location: located about 30m southeast of the abandoned shack at the Eureka sub-site (see Figure 1)
Dimensions: 60 m x 6 m x 4 m - longitudinal bearing AZ 130
Condition: stable - 80% revegetated.

Accessibility: accessible on foot from Sourdough Hill Road

Trench 7

Trench
Location: located at Eureka sub-site 25 m southeast of Shaft 1 (see Figure 5)
Dimensions: 40 m x 5 m x 3 m – longitudinal bearing AZ 162
Condition: stable - 60% revegetated.
Accessibility: accessible on foot from Sourdough Hill Road.

5.2 Waste Rock Disposal Areas

Bellekeno 625 level waste rock pile

The waste rock pile at the Bellekeno 625 level adit subsite has been piled and graded to create a site for buildings, laydown storage areas, effluent ponds and other work areas for the mine. The waste rock in this pile originated from the Bellekeno underground workings. The waste rock is up to 70% massive blocky light grey to grey quartzite (30% > 2 cm) with traces (-0.2%) of fine disseminated pyrite. The pile is 10% oxidized. Surface water collects on the graded portions of the pile in pools and drains through the pile into Thunder Gulch and Lightening Creek at the base. The lining (if there was one installed) of the effluent ponds located on the waste rock pile is allowing the treated water to drain through the pile. The drainage system installed for the ponds is dry. The slope of the waste rock pile ranges from 38° to 44°. An area of pile is failing at the south end because it is being undercut by Lightening Creek.
Location: This waste rock pile is located at the Bellekeno 625 level adit sub-site near the confluence of Thunder Gulch and Lightening Creek (see map).
Dimensions: 150 m x 30 m x 10 m

Bellekeno 200 level waste rock pile

The waste rock piles located at the Bellekeno 200 level adit have been piled and graded to create a site for buildings, laydown storage areas and other work areas for the mine. There are two piles here: one pile (WR200a) is at the mouth of the adit; another pile (WR200b) is located below with a dump point and grizzly at the top of it (see Figure 3). WR200a is 30 m long, 20 m wide and 4 high. WR200b is 30 m long, 10 m wide and 3 m high. The waste rock in these piles originated from the Bellekeno underground workings. The waste rock consists of grey quartzite with minor rusting. Veining includes siderite, sphalerite, pyrite, and galena in gossan (limonite). A zinc rich dump area is located near the grizzly (see Figure 3). The dumps are stable and show no indications of impending failure. Waste rock samples were taken from representative sections of WR200a (sample 99-22-03-01) and WR200b (sample 99-22-03-02) (see Figure 3). The field paste pH measurements for

samples 99-22-03-01 and 99-22-03-02 were 8.6 and 7.4 respectively. Laboratory analysis data are contained in Attachment B.

Bellekeno 100 level waste rock pile

A waste rock pile is located just below the Bellekeno 100 level adit. The pile is 8 m long, 3m wide and 3 m high. The waste rock in this pile consists of grey quartzite with siderite, quartz, pyrite, galena, and limonite mineralization. The waste rock is minorly rusted. The paste pH of an undocumented rock sample taken of the waste rock pile was 7.1. Parts of the waste rock pile were displaced during the construction of an adjacent power line. There is some natural reclamation of the site by moss and shrubs along the sides and top of the waste rock pile.

Mayo Mines waste rock pile

A waste rock pile is located at the Mayo Mines adit. The pile is 12 m long, 10 m wide, and 5 m high. The waste rock in this pile consists of grey quartzite with minor amounts of greenstone. Mineralization consists of sphalerite. The waste rock is minorly rusted. Waste rock sample 99-22-4-1 was taken from this pile. The field paste pH of this sample was 7.6. There is some natural reclamation of the site by moss and shrubs along the sides and top of the waste rock pile. Laboratory analysis data are contained in Attachment B.

Eureka waste rock pile

A waste rock pile is located at the Eureka workings near Eureka Shaft 3 (see Figure 5). The pile is 3 m long, 2 m wide, and 2 m high. The waste rock in this pile consists of steely grey and rusty oxidized ore. The rock is mainly grey quartzite with minor amounts of greenstone. Mineralization includes siderite, sphalerite, limonite, pyrite, and trace galena. Waste rock sample 99-22-06-01 was taken from this pile. The field paste pH of this sample was 6.4. Laboratory analysis data are contained in Attachment B.

5.3 Tailings Impoundments

There was no evidence found that ore was processed at this site. No tailings were encountered.

5.4 Minesite Water Treatment

Water collected in the Bellekeno mine system is pumped out at the 625 level and treated with lime to neutralize acid in the effluent. The treated water is collected in two ponds at the Bellekeno 625 level site where lime and precipitates are allowed to settle (photo 22-2).

Location: Bellekeno 625 level adit (see Figure 2)

Dimensions: Pond 1 – 10 m x 5 m x 2 m; Pond 2 – 20 m x 10 m x 2 m

Drainage: The ponds are designed to drain from an overflow system located in Pond 2 into

Lightening Creek. The treatment system is currently active, however Pond 2 is not filling up and there is no visible overflow. It is suspected that Pond 2 is draining through the waste rock pile and that its effluent is seeping into Lightening Creek at the waste rock pile's base.
Piping: PVC tubing is used to carry the effluent from the mine to the treatment plant and from the treatment plant to the settling ponds. There were no breaks or leaks observed in the piping.
Impacted vegetation: The treatment plant drainage area is highly disturbed due to placer mining operations. The impact on vegetation of the treatment plant can not be determined.
Samples: Water quality sample 99-22-05-WQ-1was taken from Pond 2. The field pH of the sample was 8.0. Laboratory analysis data are contained in Attachment B.

6. MINE SITE INFRASTRUCTURE

6.1 Buildings

Building 22A

Building 22A is the Bellekeno 625 level adit building. The 625 level adit lies at the south end. The building currently serves as indoor storage for mining equipment and equipment parts. It has a work area inside with a workbench. There is also a series of electrical panels and transformers that supplies the power entering the mine at the 625 level. An electric locomotive sits on rails coming out of the mine inside the building and leading into the dump shed. A lime mixing plant is found in a shed attached to the west side of this building.
Location: see Figure 2
Dimensions (L x W x H): 30 m x 5 m x 3 m
Construction: wood frame with corrugated steel siding.
Paint: none observed
Asbestos: none observed
Foundation: no floor or foundation
Non-Hazardous Contents: piping, electrical wire, tires, timber, empty 45 gallon oil barrels
Hazardous Contents: varsol, 50-70 lb acetylene canister

Building 22B

Building 22B is the Bellekeno 625 level adit dump shed. The rail system exiting the mine and running through the adit building (Building 22A) runs the length of this building. The floor of the building has gaps in it to allow mine workers to sort and dump ore and waste rock into piles on the ground below.
Location: see Figure 2
Dimensions (L x W x H): 30 m x 5 m x 3 m
Construction: wood frame and floor with corrugated steel siding.

Paint: none observed
Asbestos: none observed
Foundation: none
Non-Hazardous Contents: piping, 10 bags of cement, tires, timber, empty 45 gallon oil barrels
Hazardous Contents: 10 L of drill oil, 50-70 lb acetylene canister

Building 22C (photo 22-4)

Building 22C is the Bellekeno 625 level adit compressor house. 3 compressors are house inside the building and another mobile compressor is situated outside. A 2000 L gasoline storage tank is located in this building and appears to have been leaking at some time. The AST is currently empty. The building is also being used to store a variety of fuels, solvents and lubricants. The floor of this building is heavily stained with hydrocarbons.
Location: see Figure 2
Dimensions (L x W x H): 10 m x 6 m x 3 m
Construction: wood frame with corrugated steel siding.
Paint: none observed
Asbestos: none observed
Foundation: no floor or foundation
Non-Hazardous Contents: none
Hazardous Contents: 4 L of methyl alcohol, 20 L of tanner gas, 50-70 lb acetylene canister, 30 L motor oil, 45 gallon drum of transmission fluid, two 45 gallon drums of drill oil which have emptied into overflowing spill trays (see photo).

Building 22D

Building 22D is the Bellekeno 625 level adit office and lunchroom. This building was locked and could not be entered.
Location: see Figure 2
Dimensions (L x W x H): 10 m x 5 m x 3 m
Construction: wood frame with corrugated steel siding.
Paint: none observed
Asbestos: none observed
Foundation: none
Non-Hazardous Contents: unknown
Hazardous Contents: unknown

Building 22E

Building 22E contains equipment used to heat and ventilate the underground workings of the Bellekeno mine. It is located at the Bellekeno 625 level adit site. This building was locked and could not be entered.

Location: see Figure 2
Dimensions (L x W x H): 3.5 m x 2 m x 2.5 m
Construction: steel frame, roof and siding.
Paint: none observed
Asbestos: none observed
Foundation: rectangular concrete foundation extends beyond footprint of Building 22E to the west
Non-Hazardous Contents: unknown
Hazardous Contents: unknown

Building 22F (photo 22-7)

Building 22F is the Bellekeno 200 level adit portal. The Bellekeno 200 level adit lies at the south end. The portal appears stable.

Location: see Figure 3
Dimensions (L x W x H): 4 m x 3.5 m x 2.5 m
Construction: log frame with planked roof
Paint: none observed
Asbestos: none observed
Foundation: none
Non-Hazardous Contents: unknown
Hazardous Contents: 20 L container of oil

Building 22G (photo 22-7)

Building 22G is an electrical shed located at the Bellekeno 200 level adit site. It supplies the power going into the mine at the 200 level. The shed contains two switches, an electrical panel and a non-PCB transformer. The shed is in good condition.

Location: see Figure 3
Dimensions (L x W x H): 3 m x 2.5 m x 2.5 m
Construction: wood frame, plywood siding, and asphalt roof
Paint: unknown
Asbestos: none observed
Foundation: none
Non-Hazardous Contents: unknown
Hazardous Contents: none

Building 22H

Building 22H is an old powder magazine located at the Bellekeno 200 level adit site. This building is in poor condition although it does not appear to be failing.
Location: see Figure 3
Dimensions (L x W x H): 4 m x 3 m x 2.5 m
Construction: wood frame, roof and siding
Paint: none observed
Asbestos: interior walls lined with asbestos board
Foundation: cement
Non-Hazardous Contents: mechanical parts
Hazardous Contents: none

Building 22I

Building 22I is an old wash house located at the Bellekeno 200 level adit site. It contains a system for dispensing water to a shower, sink and tap. The building is in poor condition with the roof caving in and the stairs on the exterior rotting.
Location: see Figure 3
Dimensions (L x W x H): 6 m x 3.5 m x 4 m
Construction: wood frame, roof and siding
Paint: none observed
Asbestos: lined with asbestos paper on exterior
Foundation: log cribbing
Non-Hazardous Contents: water drums, tank and piping
Hazardous Contents: none

Building 22J (photo 22-10)

Building 22J is a completely collapsed cabin at the Bellekeno 100 level adit site.
Location: on the north side of Sourdough Hill Road at the Bellekeno 100 level adit site
Dimensions (L x W x H): 6 m x 3.5 m x 4 m
Construction: wood frame, roof and siding
Paint: none observed
Asbestos: none observed
Foundation: unknown
Non-Hazardous Contents: none
Hazardous Contents: none

Building 22K

Building 22K is a partially collapsed structure enclosing the shaft located at the Bellekeno 100 level adit site.

Location: on the south side of Sourdough Hill Road at the Bellekeno 100 level adit site
Dimensions (L x W x H): 2.5 m x 2.5 m x 2.5 m
Construction: wood frame, roof and siding
Paint: none observed
Asbestos: none observed
Foundation: none
Non-Hazardous Contents: none
Hazardous Contents: none

Building 22L

Building 22L is a completely collapsed structure at the mayo Mines adit site. It may have been a cabin or simply the adit portal.

Location: see Figure 1
Dimensions (L x W x H): unknown
Construction: wood
Paint: none observed
Asbestos: none observed
Foundation: unknown
Non-Hazardous Contents: wood stove
Hazardous Contents: none

Building 22M

Building 22M is a powder magazine located near Eureka Shaft 3. This building is in poor condition although it does not appear to be failing.

Location: 25 m SE of Eureka Shaft 3 (see Figure 5)
Dimensions (L x W x H): 2 m x 2 m x 2.5 m
Construction: wood frame, roof and siding
Paint: none observed
Asbestos: none observed
Foundation: none
Non-Hazardous Contents: none
Hazardous Contents: none

Building 22N

Building 22N is a completely collapsed cabin located near Eureka Shaft 3.
Location: 43 m SE of Eureka Shaft 3
Dimensions (L x W x H): 5 m x 3 m
Construction: wood
Paint: none observed
Asbestos: none observed
Foundation: none
Non-Hazardous Contents: none
Hazardous Contents: none

6.2 Fuel Storage

AST1 (photo 22-5)

AST1 is a single-wall aboveground steel tank with an estimated capacity of 20,000 L. It is located behind the compressor house at the Bellekeno 625 level adit site. It is used to store diesel fuel for the compressors. AST1 appears to be in reasonable condition. Aboveground steel piping delivers fuel to the compressors. There is no secondary containment for the tank or it's piping.

AST2

AST2 is a single-wall aboveground steel tank with an estimated capacity of 2,000 L. It is located inside the compressor house at the Bellekeno 625 level adit site. Evidence suggests that this tank was used to store gasoline. There is a small bucket containing dyed gas located underneath the tank. This container may have been used to catch fuel leaking from the tank's piping. AST2 is currently empty. Aboveground steel piping is used to deliver fuel from the tank to a dispensing hose. There is no secondary containment for the tank or its piping.

AST3 (photo 22-9)

AST3 is a mobile, single-wall steel, fuel storage tank mounted on skids. This tank has two compartments with an estimated capacity of 1000 L for gasoline and 2000 L for diesel. It currently contains about 200 L of fuel. There does not appear to be any leaks in this tank. AST3 has no secondary containment. There is a zone of staining adjacent to the tank, which may have resulted from spillage during the transfer of fuel.

6.3 Rail and Trestle

Bellekeno 625 level adit rail system

A rail system with steel rails and wood ties used to service the Bellekeno 625 level adit. The rails extend 60 m outside of the adit and continue inside the adit for approximately 2 km. Ore and waste rock from the mine were transported along this rail system to the dump shed (Building 22B) where the rails end. An electric locomotive is still stored in the adit building (Building 22A). The rail system appears to be in working condition.

Bellekeno 200 level adit rail system

Another rail system is located at the Bellekeno 200 level adit. The steel rails and wood ties of this system end at the mouth of the adit. It is unknown how far the rails extend into the adit. A small rail car is located inside the adit portal (Building 22F). This rail system is heavily rusted and is in poor condition.

6.4 Milling and Processing Infrastructure

There is a dump point with a grizzly located at the Bellekeno 200 level adit site (photo 22-8). It is located at the top of the lower waste rock pile (WR200b). The structure is made of logs and planks. It is in poor condition and in danger of collapsing. There was no other milling or processing infrastructure discovered at the Bellekeno site.

6.5 Electrical Equipment

There is electrical equipment located in 2 buildings at the Bellekeno site. Building 22A at the Bellekeno 625 level adit site contains a series of electrical panels and transformers. Building 22G at the Bellekeno 200 level adit site contains an electrical panel and a transformer. These transformers were installed new within the last 15 years and are not likely to contain PCBs. There is also a transformer station located at the Bellekeno 625 level adit site. The transformers at this station were installed new around 1986 and are not likely to contain PCBs.

7. SOLID WASTE DUMPS

Small solid waste dumps were observed at the Bellekeno 200 level adit site and at the Eureka site. Waste at the Bellekeno 200 level adit site was dumped at the northwestern edge of a waste rock pile (WR200a). It consists mainly of broken wood timbers, some rails, and an empty 205 L drums. Waste at the Eureka site was dumped about 5m northeast of Building 22N. It consists of discarded food cans, and a number of empty 205 L drums.

8. POTENTIAL CONTAMINANTS OF CONCERN

8.1 Out-of-Service Transformers

No out-of-service transformers were observed at the Bellekeno site.

8.2 Metals and Hydrocarbons in Soil

Bellekeno 625 level adit site

A large area of stained soil was observed in and around the compressor house (Building 22A) at the Bellekeno 625 level adit site (see map). The floor of the compressor house and areas at the entrance and behind the building are black with hydrocarbon contamination. The depth of the contamination is unknown. The estimated dimensions of this area of contamination are 25 m x 5 m. Minor surface soil staining was also observed in several locations in the area between the dump shed (Building 22B), lunchroom (Building 22D) and adit building (Building 22A). No soil samples were taken at this site.

Bellekeno 200 level adit site

Surface soil staining was observed adjacent to the mobile fuel storage tank at the Bellekeno 200 level adit site (see map). The dimensions of this area of contamination are approximately 3 m x 3 m. Other minor surface staining was observed near the centre of the upper dump pad at this site.
No soil samples were taken at this site.

Bellekeno Backfill site (photo 22-13)

The Bellekeno backfill pad was the site of an attempt to drill a hole from the surface into the Bellekeno mine workings. The hole was to be used to backfill the underground tunnels. The operation was abandoned before the drilling was completed. An area of soil contamination was observed at this site adjacent to the drilling site (see Figure 4; photo 22-14). The source of contamination appears to have been the oily metallic sludge produced during the drilling operation. The estimated depth of the contaminated soil is 0.15 m. The estimated dimensions of the area of contamination are 12 m x 4 m. Two more small areas of surface staining were observed adjacent to the larger area. Soil sample 99-22-1-1-.01 was taken from the contaminated area at a depth of 10 cm. A background sample was taken of the soil at the Bellekeno Backfill site at a depth of 10 cm (sample 99-22-1-2-.01). Laboratory analysis data are contained in Attachment B.

8.3 Liquid Hazardous Materials

Bellekeno 625 level adit site

Several containers of liquid hazardous materials were observed in the compressor house at the Bellekeno 625 level adit site (photo 22-6).

8.4 Solid Hazardous Materials

Bellekeno 200 level adit site

Building 22H and Building 22I at the Bellekeno 200 level adit site are constructed using asbestos containing materials.

9. WATER QUALITY

Water quality sample 99-22-05-WQ-1 was taken from the secondary treatment pond (pond 2) at the Bellekeno 625 level adit site. The field pH of pond 2 was 8.0. A field conductivity measurement was not taken. See Attachment B for laboratory analysis data. No surface water was observed at any of the other Bellekeno sub-sites. Surface water from the area drains towards Thunder Gulch and Lightening Creek.

10. RECLAMATION

Natural revegetation has occurred on much of the disturbed ground at the Bellekeno site. Most of the surface workings including trenches and bulldozer tracks are at least 50 % revegetated. There have been no known reclamation measures carried out by past or present operators of the site.

11. OTHER INFORMATION AND DATA

No additional information was noted.

12. REFERENCES AND PERSONAL COMMUNICATIONS

Minfile 105M 001y.

Sample Number		Detection Limit	Units	99-22-05-WQ-2 - BK600 - 20/09/99
pH (field)		N/A	pH	8
Conductivity (field)		N/A	µS/cm	not measured
pH (Lab)		0.01	pH	8
Conductivity (Lab)		0.01	µS/cm	1000
Total Alkalinity		5	mg CaCO3/L	144
Chloride		0.25	mg/L	<0.25
Hardness (CaCO3 equiv)		5	mg/L	559
Nitrate-N		0.05	mg/L	0.15
Nitrite-N		0.003	mg/L	<0.003
Sulphate		1	mg/L	375
Total Dissolved Solids		5	mg/L	768
Analysis by ICP-USN				
	Aluminum	0.0008	mg/L	0.0192
	Antimony	0.005	mg/L	<0.005
	Arsenic	0.01	mg/L	<0.01
	Barium	0.00004	mg/L	0.00483
	Beryllium	0.00001	mg/L	<0.00001
	Bismuth	0.0004	mg/L	<0.0004
	Boron	0.002	mg/L	<0.002
	Cadmium	0.00006	mg/L	0.00214
	Calcium	0.002	mg/L	167
	Chromium	0.00006	mg/L	<0.00006
	Cobalt	0.00003	mg/L	0.00107
	Copper	0.00003	mg/L	0.00121
	Iron	0.00001	mg/L	0.181
	Lead	0.0003	mg/L	0.0095
	Lithium	0.001	mg/L	0.013
	Magnesium	0.0005	mg/L	32.4
	Manganese	0.00002	mg/L	0.38
	Mercury	0.0001	mg/L	<0.0001
	Molybdenum	0.00007	mg/L	0.00058
	Nickel	0.00001	mg/L	0.0153
	Phosphorus	0.03	mg/L	<0.03
	Potassium	0.4	mg/L	<0.4
	Selenium	0.004	mg/L	0.004
	Silicon	0.004	mg/L	3.6
	Silver	0.00005	mg/L	<0.00005
	Sodium	0.004	mg/L	1.4
	Strontium	0.00002	mg/L	0.295
	Sulphur	0.008	mg/L	128
	Thallium	0.001	mg/L	<0.001
	Titanium	0.00002	mg/L	<0.00002
	Vanadium	0.00003	mg/L	<0.00003
	Zinc	0.0002	mg/L	0.644
Analysis by Hydride AA				
	Arsenic	0.0002	mg/L	0.0041
	Selenium	0.0001	mg/L	<0.0001

ATTACHMENT 2: 1999 BELLEKENO SOIL SAMPLES LABORATORY RESULTS				
Sample Number	**Detection Limit**	**Units**	**99-22-1-1-0.1 - Bellekeno - 14/09/99**	**99-22-1-2-0.1 - Bellekeno - 14/09/99**
Site Description			Stained soil observed at the drilling location at the Bellekeno Backfill site	Background sample of soil at the Bellekeno Backfill site
pH in Saturated Paste				
pH	0.1	pH	6.6	5.1
pH in Soil (1:2 water)				
pH	0.01	pH	6.77	5.37
LEPH/HEPH in Soil				
LEPHs10-19	10	mg/kg	1390	2160
HEPHs19-32	10	mg/kg	34800	973
Moisture				
% Moisture		%	3.4	9.1
PAH in Soil				
Naphthalene	0.05	mg/kg	0.07	0.08
Acenaphthylene	0.05	mg/kg	<0.05	0.06
Acenaphthene	0.05	mg/kg	<0.05	0.05
Fluorene	0.05	mg/kg	<0.05	0.25
Phenanthrene	0.05	mg/kg	0.26	0.68
Anthracene	0.05	mg/kg	<0.05	<0.05
Fluoranthene	0.05	mg/kg	0.05	0.13
Pyrene	0.05	mg/kg	0.24	0.95
Benzo(a)anthracene	0.05	mg/kg	<0.05	<0.05
Chrysene	0.05	mg/kg	<0.05	0.11
Benzo()fluoranthenes	0.05	mg/kg	<0.05	<0.05
Benzo(a)pyrene	0.05	mg/kg	<0.05	<0.05
Ideno(1,2,3-c,d)pyrene	0.05	mg/kg	<0.05	<0.05
Dibenzo(a,h)anthracene	0.05	mg/kg	<0.05	<0.05
Benzo(g,h,i)perylene	0.05	mg/kg	<0.05	<0.05
Surrogates				
Nitrobenzene-d5		%	97	109
2-Fluorobiphenyl		%	114	111
4-Terphenyl-d14		%	90	113
VPH in Soil				
VHs6-10	1	mg/kg		
VPHs6-10	1	mg/kg		
BTEX in Soil				
Benzene	0.02	mg/kg		
Toluene	0.02	mg/kg		
Ethylbenzene	0.02	mg/kg		
m,p-Xylene	0.05	mg/kg		
o-Xylene	0.03	mg/kg		
ICP Semi-Trace Scan - Metals				
Aluminum	5	µg/g wet	19600	45400
Antimony	2	µg/g wet	<2	<2
Arsenic	2	µg/g wet	<2	3
Barium	0.05	µg/g wet	589	1160
Beryllium	0.1	µg/g wet	0.5	1
Bismuth	5	µg/g wet	<5	<5
Cadmium	0.1	µg/g wet	2.5	0.4
Calcium	5	µg/g wet	4130	2080
Chromium	0.5	µg/g wet	46.5	51.8
Cobalt	0.1	µg/g wet	19.4	6
Copper	0.5	µg/g wet	86.7	29.5
Iron	1	µg/g wet	21000	32000
Lead	1	µg/g wet	151	21
Lithium	0.5	µg/g wet	11.1	32.3
Magnesium	1	µg/g wet	2270	3450
Manganese	0.5	µg/g wet	343	374
Mercury	0.01	µg/g wet	0.012	0.029
Molybdenum	1	µg/g wet	7	2
Nickel	0.2	µg/g wet	32.7	22.1
Phosphorus	5	µg/g wet	336	607
Potassium	20	µg/g wet	4980	8700
Selenium	2	µg/g wet	<2	<2
Silicon	5	µg/g wet	3650	560
Silver	0.5	µg/g wet	<0.5	<0.5
Sodium	5	µg/g wet	1350	2690
Strontium	1	µg/g wet	52	94
Sulphur	10	µg/g wet	1530	310
Thorium	1	µg/g wet	2	4
Tin	1	µg/g wet	3	<1
Titanium	0.2	µg/g wet	114	515
Uranium	5	µg/g wet	<5	<5
Vanadium	1	µg/g wet	39	100
Zinc	0.5	µg/g wet	156	67.5
Zirconium	0.1	µg/g wet	24.8	19.8

ATTACHMENT B: BELLEKENO WASTE ROCK SAMPLES LABORATORY RESULTS						
Site Number	**Detection Limit**	**Units**	**99-22-3-1 - BK 200 - 16/9 - Rock**	**99-22-3-1 - Bk 200 - 16/9 - Rock**	**99-22-4-1 - Mayo Adit - 16/9 - Rock**	**99-22-06-01 - Bk East - 15/9 Rock**
Sample Desciption			Bellekeno 200 level adit (WR200a)	Bellekeno 200 level adit (WR200b)	Mayo Mines Adit waste rock pile	Eureka site waste rock pile
Paste pH (field)	N/A	pH	8.6	7.4	7.6	6.4
Conductivity (field)	N/A	µS/cm	not measured	not measured	not measured	not measured
pH in Saturated Paste						
pH	0.1	pH	7.4	7.2	7.6	5.9
pH in Soil (1:2 water)						
pH	0.01	pH	7.2	7.1	7.8	5.5
ICP Semi-Trace Scan						
Aluminum	5	µg/g	10600	21400	36800	23700
Antimony	2	µg/g	5	230	<2	1840
Arsenic	2	µg/g	158	1580	144	1030
Barium	0.05	µg/g	163	262	32.8	139
Beryllium	0.1	µg/g	0.4	<0.1	<0.1	<0.1
Bismuth	5	µg/g	<5	24	<5	<5
Cadmium	0.1	µg/g	31.4	402	8	475
Calcium	5	µg/g	3680	1880	39900	1480
Chromium	0.5	µg/g	21.9	25.5	33.4	22.4
Cobalt	0.1	µg/g	5.9	7.5	25.7	14.7
Copper	0.5	µg/g	20.5	1120	112	1040
Iron	1	µg/g	15000	105000	62000	111000
Lead	1	µg/g	290	101000	166	111000
Lithium	0.5	µg/g	9.7	9.5	52.1	11.5
Magnesium	1	µg/g	1070	962	22900	2350
Manganese	0.5	µg/g	1760	10700	5640	18700
Mercury	0.01	µg/g	<0.01	0.47	<0.01	1.2
Molybdenum	1	µg/g	1	3	<1	6
Nickel	1	µg/g	22.5	43.7	47.5	93.9
Phosphorus	5	µg/g	506	292	422	498
Potassium	20	µg/g	2630	5600	1450	3860
Selenium	2	µg/g	<2	<2	<2	<2
Silicon	5	µg/g	9400	157	505	440
Silver	0.5	µg/g	3.7	1730	4.5	2200
Sodium	5	µg/g	293	434	55	403
Strontium	1	µg/g	23	25	34	11
Sulphur	10	µg/g	190	23000	270	38200
Thorium	1	µg/g	5	<1	<1	<1
Tin	1	µg/g	3	6	2	52
Titanium	0.2	µg/g	43.7	45.3	425	111
Uranium	5	µg/g	<5	<5	<5	<5
Vanadium	1	µg/g	20	31	79	39
Zinc	0.5	µg/g	2380	19100	1140	32700
Zirconium	0.1	µg/g	11.5	14	3.8	22.2

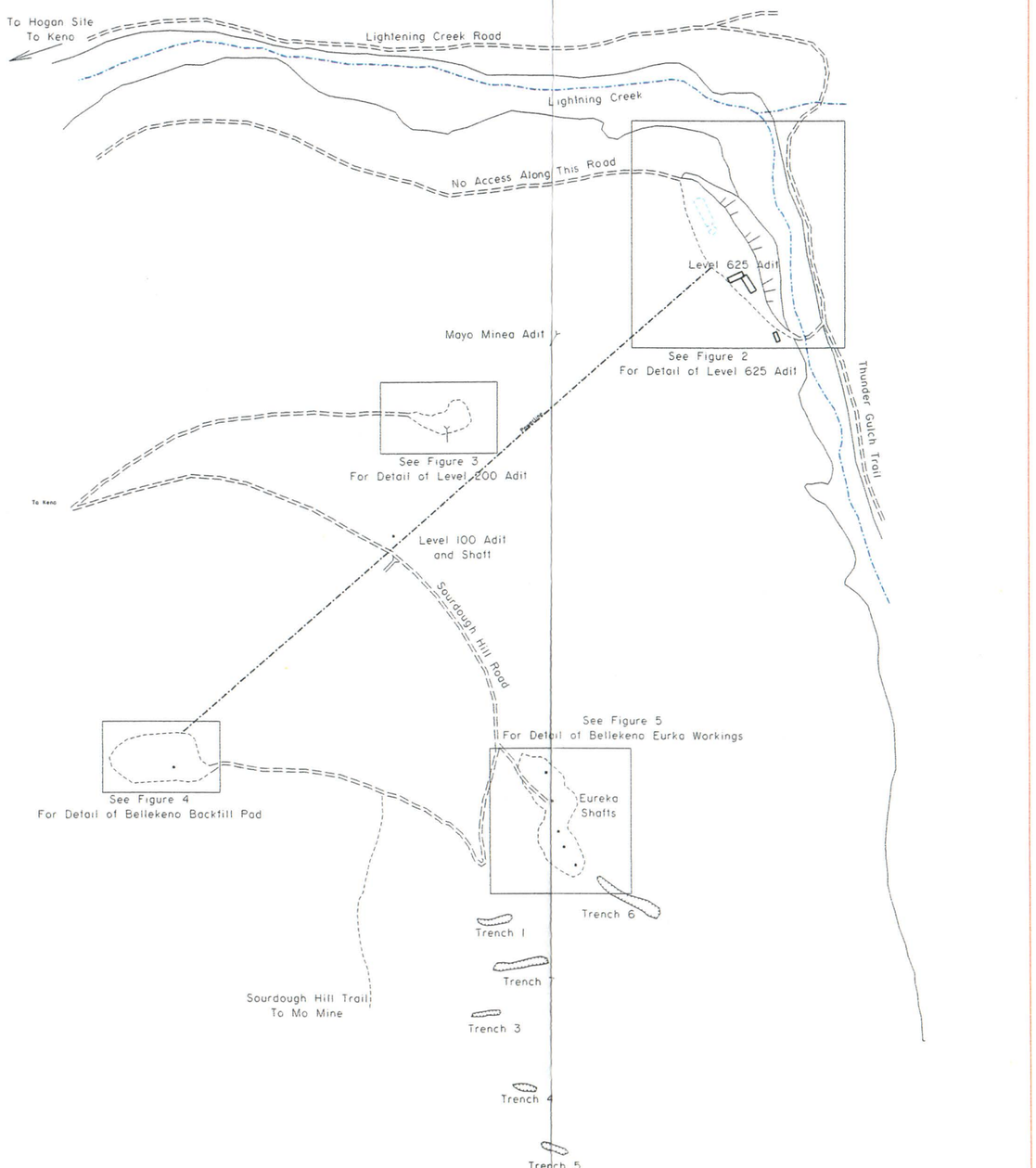
ATTACHMENT B: 1999 BELLEKENO WASTE ROCK SAMPLES LABORATORY RESULTS
MODIFIED SOBEK METHOD ACID-BASE ACCOUNTING TEST

SAMPLE	SITE DESCRIPTION	PASTE pH	S(T) %	S(SO4) %	AP	NP	NET NP	NP/AP
99-22-3-1 - BK 200 - 16/9 - Rock	Bellekeno 200 level adit (WR200a)	7.9	0.04	0.02	0.6	7.0	6.4	11.2
99-22-3-1 - BK 200 - 16/9 - Rock RE	Bellekeno 200 level adit (WR200a)	7.9	N/D	N/D	0.6	7.5	6.9	12.0
99-22-3-2 - Bk 200 - 16/9 - Rock	Bellekeno 200 level adit (WR200b)	6.5	1.06	0.40	20.6	37.3	16.6	1.8
99-24-4-1 - Mayo Adit - 16/9 - Rock	Mayo Mines Adit waste rock pile	8.1	0.09	0.03	1.9	98.3	96.4	52.4
99-22-06-1 - Bk. East - 115/9 - Rock	Eureka site waste rock pile	6.6	2.92	0.16	86.3	68.8	-17.5	0.8

AP = ACID POTENTIAL IN TONNES CaCO3 EQUIVALENT PER 1000 TONNES OF MATERIAL.
NP = NEUTRALIZATION POTENTIAL IN TONNES CaCO3 EQUIVALENT PER 1000 TONNES OF MATERIAL.
NET NP = NET NEUTRALIZATION POTENTIAL = TONNES CaCO3 EQUIVALENT PER 1000 TONNES OF MATERIAL.
NOTE: WHEN S(T) AND/OR S(SO4) IS REPORTED AS <0.01, IT IS ASSUMED TO BE ZERO FOR THE AP CALCULATION.
N/D = NO DUPLICATE ASSAY. CALCULATIONS ARE BASED ON ASSAY RESULTS OF THE INITIAL SAMPLE.
RE = REPLICATE.

NOTE - A HIGH LEVEL OF SOLUBLE METALS (ESPECIALLY IRON) WERE OBSERVED IN MANY SAMPLES DURING THE ABA TITRATIONS.
SAMPLES WITH A NEGATIVE NET NP SHOULD BE TESTED FOR MOBILE METALS USING STANDARD SHAKE FLASK EXTRACTION TESTS.

- Building (22A: building site present reference*) 22A* Indicates Asbestos Material
- 22A Collapsed Building
- Adit
- Collapsed Adit
- Shaft
- Collapsed/Backfilled Shaft
- Mine Rock Dump
- Bedrock Open Pit
- Trench
- Stripped Overburden Stockpile
- Stripped / Disturbed Area
- Outcrop Boundary
- Highway
- Road (gravel, 2 wheel drive)
- Road (gravel, 4X4 accessible)
- Road (inaccessible)
- Trail
- Culvert
- 24501-01 1999 Soil Sample (this study)
- Pre 1999 Soil Sample (other sources)
- 25WR04-01 1999 Waste Rock Sample (this study)
- Pre 1999 Waste Rock Sample (other sources)
- WD-12-06 1999 Water Sample
- Pre 1999 Water Sample
- Tension Cracks
- Mass Movement (note: for Forms; BelleKeno)
- Groundwater Seep
- Surface Water Flow (Stream, Creek, River)
- Lake
- Settling Pond / Water Treatment Pond
- Tailings Dam / Tailings Pond / Mill Tails
- Ponded Water / Trench
- Barrels
- Abandoned Equipment (compressors, ore cars, rails, air and water pipe)
- Mine Rails / Trestle
- Collapsed Trestle
- Solid Waste Disposal Site
- Area of Soil Contamination
- *(6) Transformer Loaction (number of transformer in brackets)
- Power Line
- Power Line Collapsed
- Aerial Transmission Towers
- 5 Photo Site (arrow shows view direction)
- GPS Survey Location
- Former Building Site (Elsa)



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CAD FILE: SITE22_1.DGN

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

Architectural & Engineering Services
Western Region

Drawing title: / Titre du dessin:

Bellekeno Site Plan Site #22
Site Assessment
Yukon Territory

designed by: / dessiné par: C.S.
drawn by: / dessiné par:
approved by: / approuvé par:
revisions: / révisions:
date: Nov. 1999

project no. / no. du projet: 125-12.01
dwg. no. / dessin no. 1 of 5

- Building (22A: building site present reference*) Indicates Asbestos Material
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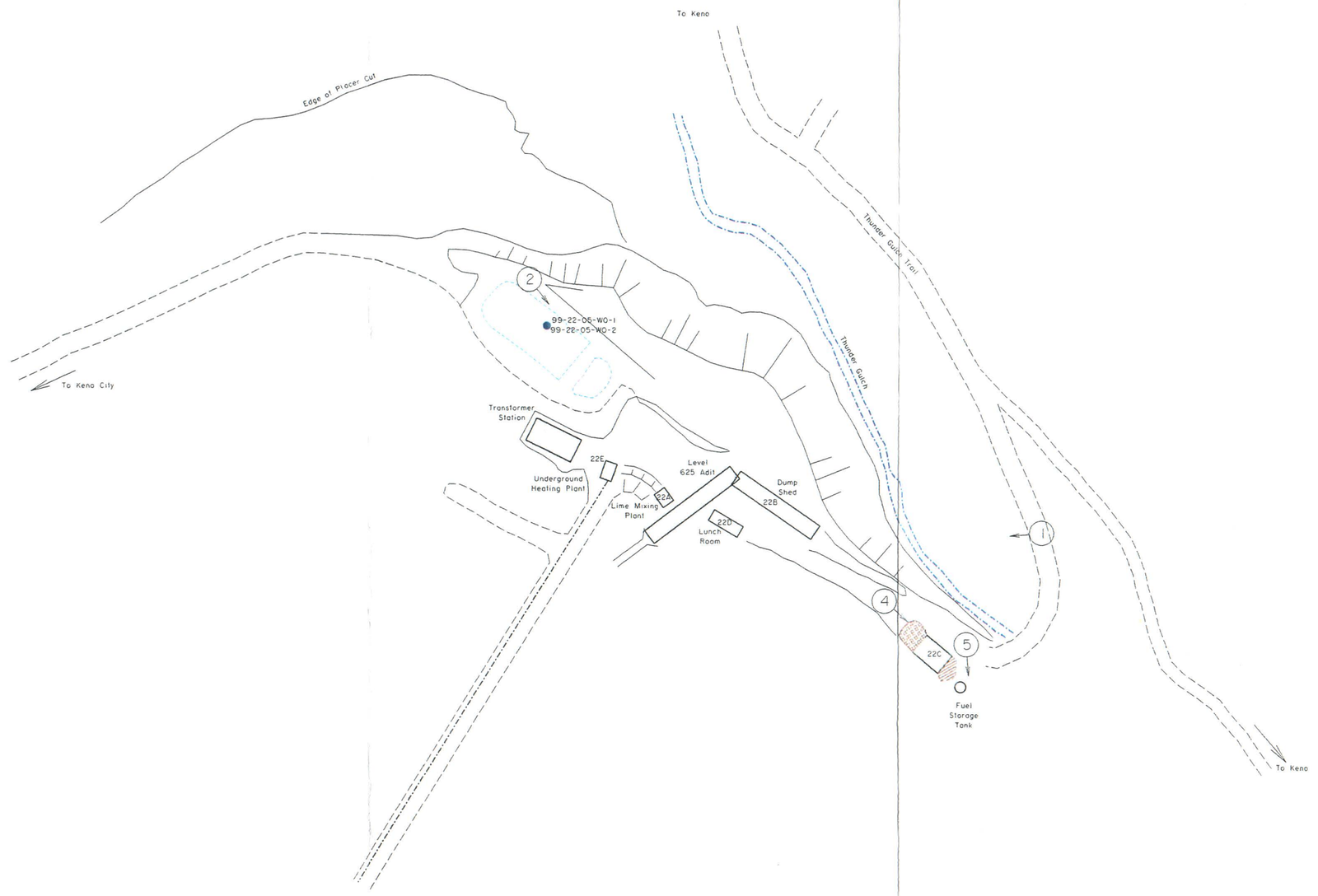

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CAD FILE: SITE22_2.DGN

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Western Region

Drawing title: / Titre du dessin:

Bellekeno 625 Level Adit Site #22
Site Assessment
Yukon Territory

designed by: / conçu par:	date:
drawn by: / dessiné par:	C.S. Nov. '99
approved by: / approuvé par:	
revisions:	
project no. / no. du projet:	125-12.01
dwg. no. / dessin no.	2 of 5

- Building (22A: building site present reference*) / 22A* Indicates Asbestos Material
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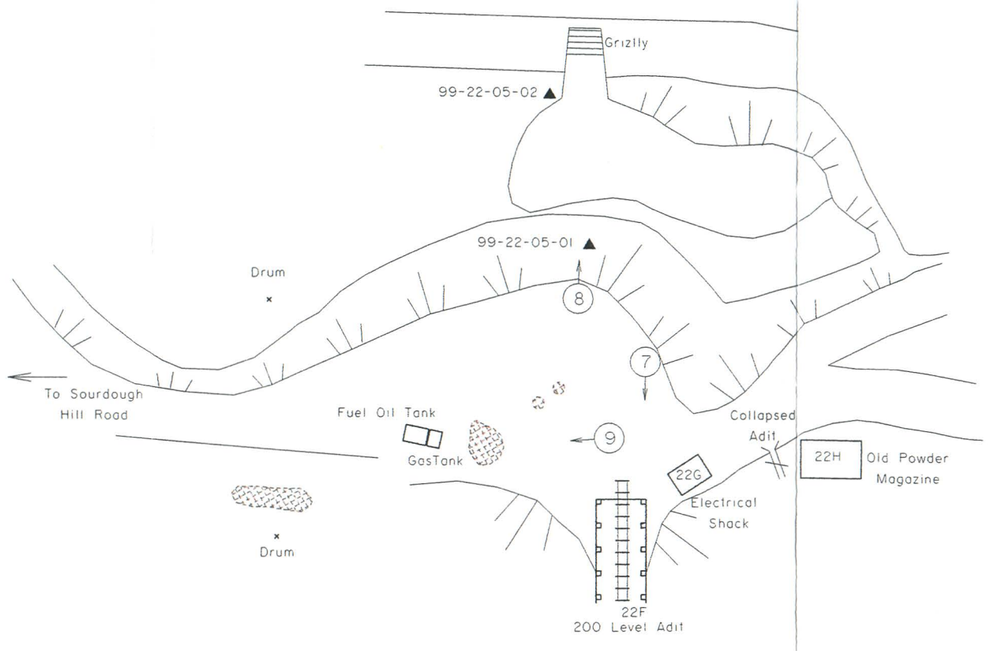
- 5 Photo Site (arrow shows view direction)
- GPS Survey Location
- Former Building Site (Elsa)



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Bellekeno 200 Level Adit Site #22
Site Assessment
Yukon Territory

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revisions:

project no. / no. du projet: 125-12.01

dwg. no. / dessin no. 3 of 5

- Building (22A: building site present reference*) Indicates Asbestos Material
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- Power Line Collapsed
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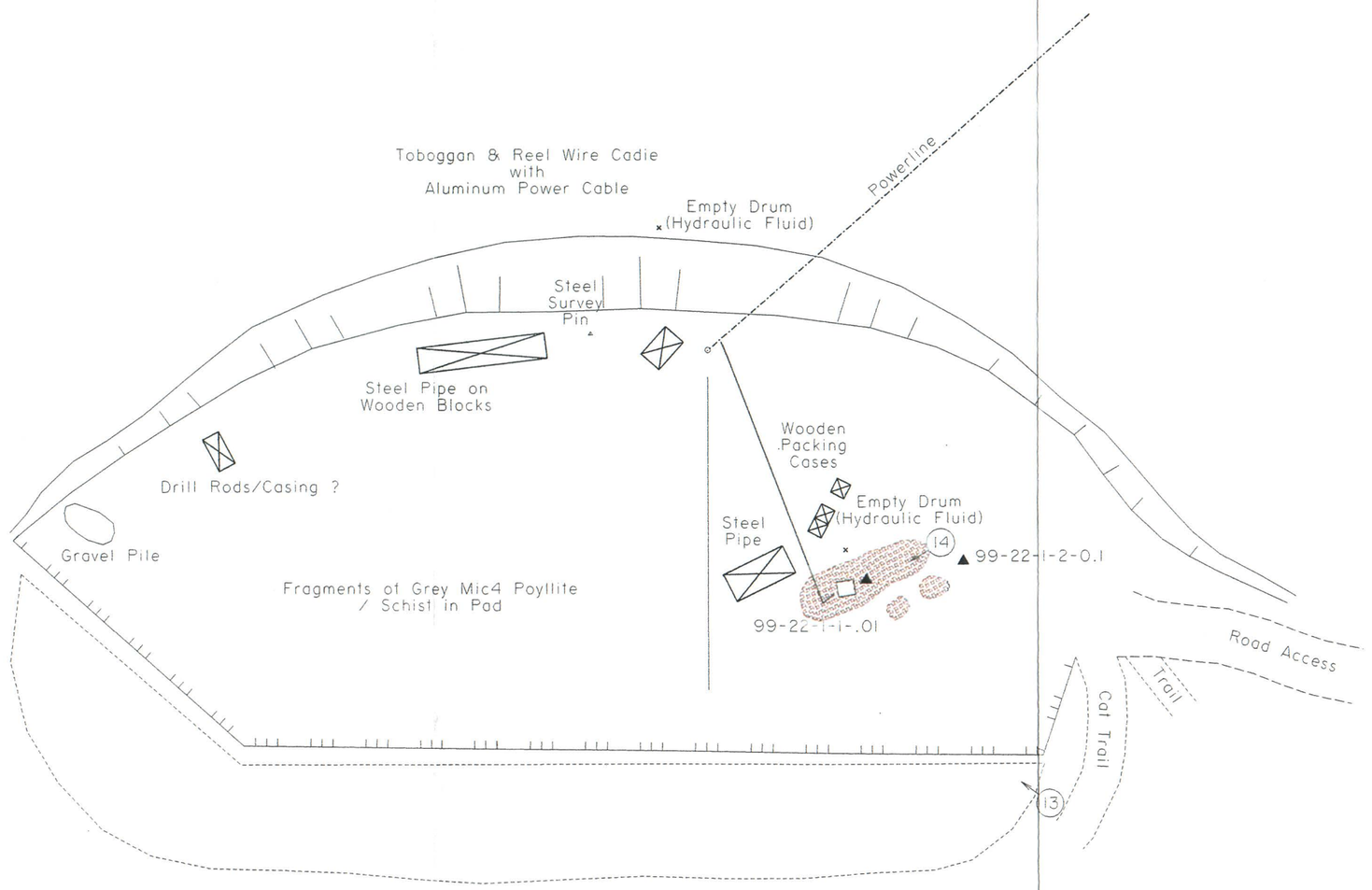
- (5) — Photo Site (arrow shows view direction)
- GPS Survey Location
- Former Building Site (Elsa)



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CAD FILE: SITE22_4.DGN

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Western Region

Drawing title: Bellekeno Backfill Pad Site #22
Site Assessment
Yukon Territory

Titre du dessin:

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revisions:

project no. / no. du projet: 125-12.01

dwg. no. / dessin no. 4 of 5

- Building (22A: building site present reference*) Indicates Asbestos Material
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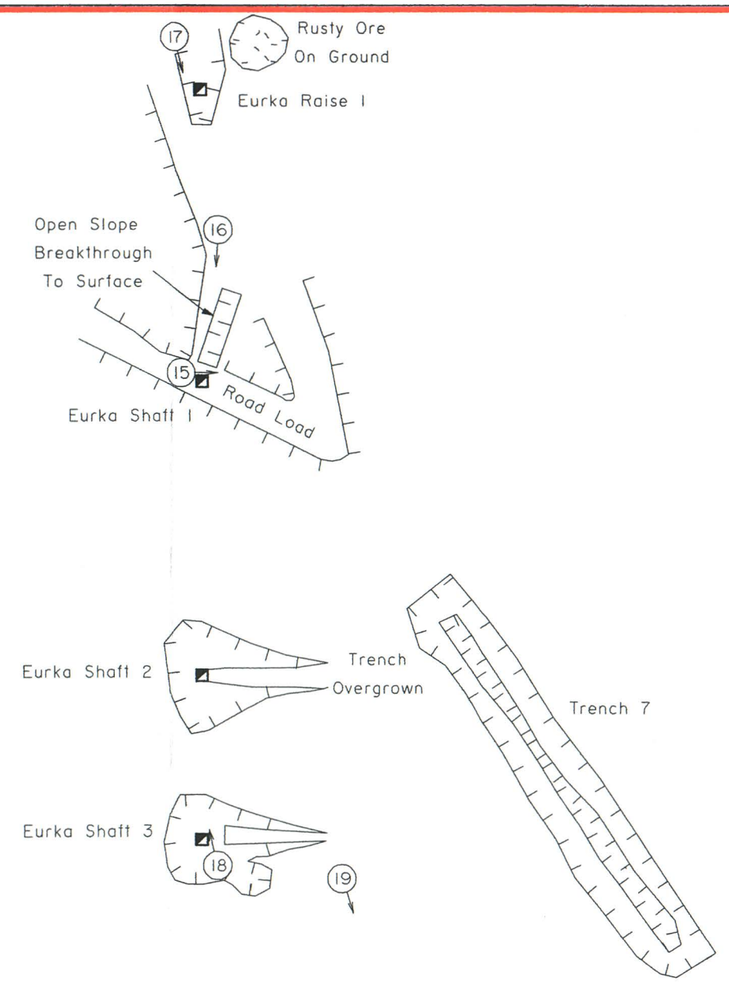

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CAD FILE: SITE22_5.DGN

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Architectural & Engineering Services
Western Region

Drawing title: / Titre du dessin:

Bellekeno Eurka Workings Site #22
Site Assessment
Yukon Territory

date:

designed by: / conçu par:

drawn by: / dessiné par: C.S. Nov./99

approved by: / approuvé par:

revisions:

project no. / no. du projet: 125-12.01

dwg. no. / dessin no. 5 of 5

Photo 22-1: View of Bellekeno 625 level adit site from opposite side of Thunder Gulch

Photo 22-2: Settling ponds for treatment of water removed from Bellekeno mine at 625 level adit.

Photo 22-3: View of Bellekeno 625 level adit from inside of adit building (Building 22A)

Photo 22-4: Compressor house at Bellekeno 625 level adit (Building 22C).
Hydrocarbon staining is evident at entrance.

Photo 22-5: Aboveground fuel storage tank behind compressor house at Bellekeno 625 level adit.

Photo 22-6: Oil barrels fitted with dispensing valves located inside compressor house. Spill trays are filled with oil and hydrocarbon staining is evident on floor.

Photo 22-7: View of Bellekeno 200 level adit entrance and green wooden electrical shed. (Azimuth 190°)

Photo 22-8: View of wooden load out from the edge of waste rock dump at Bellkeno 200 level adit (Azimuth 020°)

Photo 22-9: View of mobile fuel storage tank containing diesel and gasoline located adjacent to Bellekeno 20d0 level adit (Azimuth 304°)

Photo 22-10: Collapsed entrance to Bellekeno 100 level adit with waste rock dump in foreground.

Photo 22-11: Collapsed structure enclosing shaft across Sourdough Hill Road from Bellekeno 100 level adit

Photo 22-12: View of collapsed entrance to Mayo Mines adit (Azimuth206^{o})

Photo 22-13: Bellekeno Backfill site. Drilling site is at centre of photograph next to laydown of pipes.

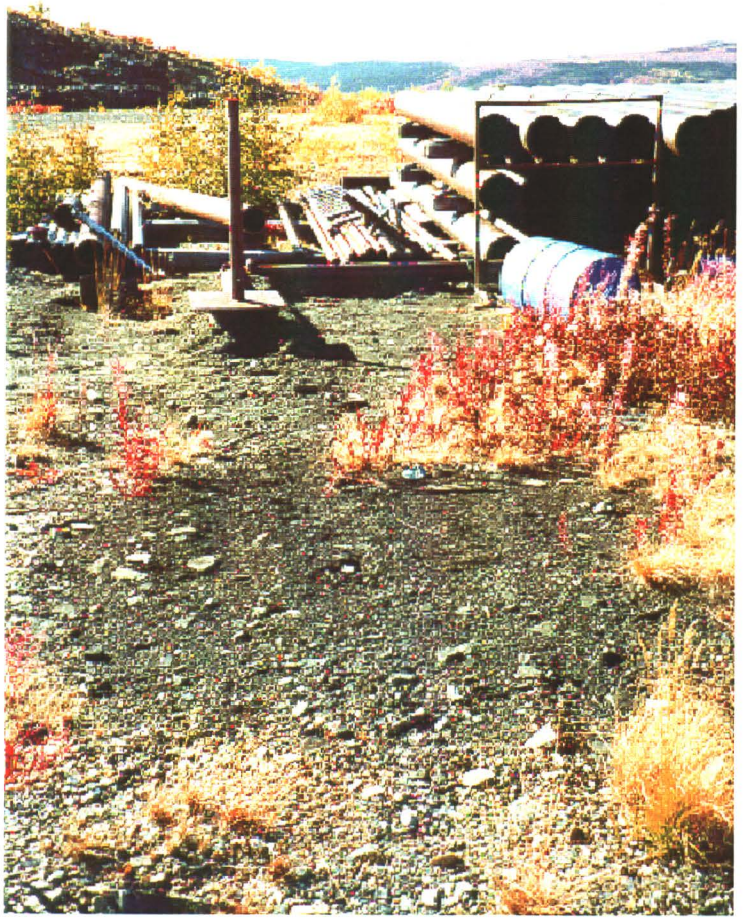

Photo 22-14: Drilling site with soil staining in foreground. Laydown of piping and empty hydraulic fluid barrel are in background.

Photo 22-15: Eureka Shaft 1 located in the middle of a trail off of Sourdough Hill Road.

Photo 22-16: Stope broken through to surface just below Eureka Shaft 1.

Photo 22-17: Timbered raise (Eureka Raise 1). Open stope can be seen in background.

Photo 22-18: Partially collapsed shaft (Eureka Shaft 3) located about 37 m south of Eureka Shaft 1.

Photo 22-19: Powder shed located adjacent to Eureka Shaft 3.

Photo 22-20 : Overview of Bellekeno site. Note use of mine waste rock for road ballast and its proximity to creek in Thunder Gulch.(Azimuth 170^{0})

Photo 22-21 : Slumping evident in Bellekeno mine waste rock above Thunder Gulch creek. (Azimuth 160^{0})