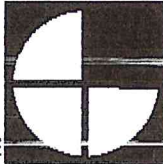


204100386

| | | |
|---|---|---|
| VANCOUVER <hr/> TORONTO <hr/> ST. CATHARINES <hr/> WHITEHORSE, YELLOWKNIFE |  | Gartner Lee Limited <i>Consultants in the Environment</i> |
|---|---|---|

Transmittal #:

Date: Dec 15 1999

GLL Job #: 99-99-926

From: Forest Pearson
Fax: (867) 633-6321

To: Dave

Fax No: 633-5758

Here are the logs for the 2
 holes you drilled at Spruce Hill.
 TH 1-99 is the lot 11 hole, TH 2-99
 is the lot 21 hole. Thanks!

—Forest.

IF these are too small to read, I can
 put originals in the mail to you.

Number of pages including cover sheet: 4

Sent by: AP

206 Lowe Street, Suite C, Whitehorse, Yukon, Canada Y1A 1W6
phone (867) 633-6474 fax (867) 633-6321

| BOREHOLE LOG | | | | | | | | | | | PROJECT: GLL 99-926 | | | | BOREHOLE: TH 1-99 pg. 1/2 | | | | |
|---|--------------|------|------|---|---|--------|---|---|---------|---------|---|-------------------------|---------------------------|--------|--|------|---------|---------|--------|
| FOR: Engineering & Development Branch, C&TS Spruce Hill Subdivision Development Whitehorse, Yukon | | | | | | | | | | | DRILL: Schramm T685 Air Rotary DRILLING CO.: Midnight Sun Drilling Co. Ltd. LOCATION: Lot 11, Spruce Hill | | | | DATE DRILLED Oct. 26-28, 1999 LOGGED BY: T. Locke ELEVATION 708.75 m (ASL) | | | | |
| DEPTH (m) (ft) | STRATIGRAPHY | | | | | | | | | | Well | Construction Details | SAMPLE | | | | | | |
| | Clay | Silt | Sand | | | Gravel | | | Diamic. | Bedrock | | | STRATIGRAPHIC DESCRIPTION | Number | Interval | Type | N Value | % Water | % Rec. |
| | | | F | M | C | P | C | B | | | | | | | | | | | |
| 1.5 | 5 | | | | | | | | | | | | | | | | | | |
| 3.0 | 10 | | | | | | | | | | | | | | | | | | |
| 4.6 | 15 | | | | | | | | | | | | | | | | | | |
| 6.1 | 20 | | | | | | | | | | | | | | | | | | |
| 7.6 | 25 | | | | | | | | | | | | | | | | | | |
| | 28 | | | | | | | | | | | | | | | | | | |
| 9.1 | 30 | | | | | | | | | | | | | | | | | | |
| 10.7 | 35 | | | | | | | | | | | | | | | | | | |
| 12.2 | 40 | | | | | | | | | | | | | | | | | | |
| 13.7 | 45 | | | | | | | | | | | | | | | | | | |
| 15.2 | 50 | | | | | | | | | | | | | | | | | | |
| 16.8 | 55 | | | | | | | | | | | | | | | | | | |
| 18.3 | 60 | | | | | | | | | | | | | | | | | | |
| 19.8 | 65 | | | | | | | | | | | | | | | | | | |
| 21.3 | 70 | | | | | | | | | | | | | | | | | | |
| 22.9 | 75 | | | | | | | | | | | | | | | | | | |
| 24.4 | 80 | | | | | | | | | | | | | | | | | | |
| 25.9 | 85 | | | | | | | | | | | | | | | | | | |
| 27.4 | 90 | | | | | | | | | | | | | | | | | | |
| 29.0 | 95 | | | | | | | | | | | | | | | | | | |
| 30.5 | 100 | | | | | | | | | | | | | | | | | | |
| 32.0 | 105 | | | | | | | | | | | | | | | | | | |
| 33.5 | 110 | | | | | | | | | | | | | | | | | | |
| 35.1 | 115 | | | | | | | | | | | | | | | | | | |
| 36.6 | 120 | | | | | | | | | | | | | | | | | | |
| 38.1 | 125 | | | | | | | | | | | | | | | | | | |
| 39.6 | 130 | | | | | | | | | | | | | | | | | | |
| 41.2 | 135 | | | | | | | | | | | | | | | | | | |
| 42.7 | 140 | | | | | | | | | | | | | | | | | | |
| 44.2 | 145 | | | | | | | | | | | | | | | | | | |
| 45.7 | 150 | | | | | | | | | | | | | | | | | | |
| 47.3 | 155 | | | | | | | | | | | | | | | | | | |
| 48.8 | 160 | | | | | | | | | | | | | | | | | | |
| 50.3 | 165 | | | | | | | | | | | | | | | | | | |
| 51.8 | 170 | | | | | | | | | | | | | | | | | | |
| 53.4 | 175 | | | | | | | | | | | | | | | | | | |
| 54.9 | 180 | | | | | | | | | | | | | | | | | | |

| BOREHOLE LOG | | | | | | | | | | PROJECT: GLL 99-926 | | BOREHOLE: TH 1-99 pg. 2/2 | | | | | | | | |
|--|--------------|------|------|---|---|--------|---|---|---------|--|---|------------------------------|--------|----------|------|---------|---------|--------|-----|--|
| FOR: Engineering & Development Branch, C&TS Spruce Hill Subdivision Development Whitchose, Yukon | | | | | | | | | | DRILL: Schramm T685 Air Rotary | | DATE DRILLED Oct 26-28, 1999 | | | | | | | | |
| | | | | | | | | | | DRILLING CO.: Midnight Sun Drilling Co. Ltd. | | LOGGED BY: T. Locke | | | | | | | | |
| | | | | | | | | | | LOCATION: Lot 11, Spruce Hill | | ELEVATION 708.75 m (ASL) | | | | | | | | |
| DEPTH (m) (ft) | STRATIGRAPHY | | | | | | | | | STRATIGRAPHIC DESCRIPTION | Well Construction Details | SAMPLE | | | | | | | | |
| | Clay | Silt | Sand | | | Gravel | | | Diamic. | | | Bedrock | Number | Interval | Type | N Value | % Water | % Rec. | RQD | |
| | | | F | M | C | P | C | B | | | | | | | | | | | | |
| 56.4 185 | | | | | | | | | | | Grey silty fine to medium SAND | | | | | | | | | |
| 57.9 190 | | | | | | | | | | | Clean coarse SAND with pebbles | | | | | | | | | |
| 59.5 195 | | | | | | | | | | | Clean coarse SAND and pebble gravel | | | | | | | | | |
| 61.0 200 | | | | | | | | | | | Clean coarse sand to pebble GRAVEL | | | | | | | | | |
| | | | | | | | | | | | END OF HOLE at 200' Hole makes lots of water, driller's estimate of 10 gpm Static Waterlevel = xxxm below surface Well completed with 6" steel casing, 5 ft. #20 slot stainless steel screen Well stick-up = 0.70 m | | | | | | | | | |

| BOREHOLE LOG | | | | | | | | | | PROJECT: GLL 99-926 | | BOREHOLE: TH 2-99 | | | | | | |
|---|--------------|------|------|---|---|--------|---|---|---------|--|---|-------------------------------|--------|----------|------|---------|---------|--------|
| FOR: Engineering & Development Branch, C&TS Spruce Hill Subdivision Development Whitehorse, Yukon | | | | | | | | | | DRILL: Schramm T685 Air Rotary | | DATE DRILLED Nov. 17-18, 1999 | | | | | | |
| | | | | | | | | | | DRILLING CO.: Midnight Sun Drilling Co. Ltd. | | LOGGED BY: F. Pearson | | | | | | |
| | | | | | | | | | | LOCATION: Lot 21, Spruce Hill | | ELEVATION 711.9 m (ASL) | | | | | | |
| DEPTH (m) (ft) | STRATIGRAPHY | | | | | | | | | | Well Construction Details | SAMPLE | | | | | | |
| | Clay | Silt | Sand | | | Gravel | | | Diamic. | Bedrock | | STRATIGRAPHIC DESCRIPTION | Number | Interval | Type | N Value | % Water | % Rec. |
| | | | F | M | C | P | C | B | | | | | | | | | | |
| 1.3 | | | | | | | | | | | 0-0.1m brown silty SAND /w organics | | | | | | | |
| 3.0 | | | | | | | | | | | Medium sand filled cobble to pebble GRAVEL | | | | | | | |
| 4.6 | | | | | | | | | | | Fairly clean pebble to cobble GRAVEL | | | | | | | |
| 6.1 | | | | | | | | | | | Light tan coloured SILT | | | | | | | |
| 7.6 | | | | | | | | | | | Tan fine sandy SILT | | | | | | | |
| 9.1 | | | | | | | | | | | Tan fine sandy SILT | | | | | | | |
| 10.7 | | | | | | | | | | | Brown to grey damp clayey SILT | | | | | | | |
| 12.2 | | | | | | | | | | | Light to dark grey SILT with some clay | | | | | | | |
| 13.7 | | | | | | | | | | | Damp silty grey CLAY - very little sample return | | | | | | | |
| 15.2 | | | | | | | | | | | No sample return - soft CLAY? | | | | | | | |
| 16.8 | | | | | | | | | | | No sample return | | | | | | | |
| 18.3 | | | | | | | | | | | Moist grey silty CLAY - little sample return | | | | | | | |
| 19.8 | | | | | | | | | | | Wet sticky grey CLAY - v. little sample return | | | | | | | |
| 21.3 | | | | | | | | | | | Wet sticky grey CLAY - v. little sample return | | | | | | | |
| 22.9 | | | | | | | | | | | Wet sticky grey CLAY - v. little sample return | | | | | | | |
| 24.4 | | | | | | | | | | | Wet sticky grey CLAY - v. little sample return | | | | | | | |
| 25.9 | | | | | | | | | | | No sample - soupy mud | | | | | | | |
| 27.4 | | | | | | | | | | | No sample - mud | | | | | | | |
| 29.0 | | | | | | | | | | | No sample - mud | | | | | | | |
| 30.5 | | | | | | | | | | | No sample - mud | | | | | | | |
| 32.0 | | | | | | | | | | | No sample - mud | | | | | | | |
| 33.5 | | | | | | | | | | | No sample - mud | | | | | | | |
| 35.1 | | | | | | | | | | | No sample - grey CLAY, very wet | | | | | | | |
| 36.6 | | | | | | | | | | | Grey wet sticky CLAY | | | | | | | |
| 38.1 | | | | | | | | | | | Sticky grey CLAY w/ occ Pebble fragment | | | | | | | |
| 39.6 | | | | | | | | | | | Sticky grey CLAY w/ pebble fragments | | | | | | | |
| 41.2 | | | | | | | | | | | Silty fine SAND w/ pebbles | | | | | | | |
| 42.7 | | | | | | | | | | | Uniform grey fine silty SAND, dry | | | | | | | |
| 44.3 | | | | | | | | | | | Grey sandy pebble GRAVEL w/ occ cobbles. Some soupy clayey material | | | | | | | |
| 45.7 | | | | | | | | | | | Course SAND to pebble gravel, fairly clean but some fines from casing | | | | | | | |
| 47.3 | | | | | | | | | | | V. wet clayey sandy SILT (?) w/ pebbles - probably mixed previous | | | | | | | |
| 48.8 | | | | | | | | | | | Course clean SAND w/ pebbles. Hole makes lots of water, more than TH 1-99, est. 30-40 gpm | | | | | | | |
| | | | | | | | | | | | END OF HOLE at 161' | | | | | | | |
| | | | | | | | | | | | Static Waterlevel = xxxm below surface | | | | | | | |
| | | | | | | | | | | | Well completed with 6" steel casing, 5 ft. #20 slot stainless steel screen | | | | | | | |
| | | | | | | | | | | | Well stick-up = 0.40 m | | | | | | | |