

MONITORING WELL ID: 4-MW18-8



Well Type: Groundwater Monitoring Well

Project Location: Watson Lake Airport, YT

Drilling Contractor: Ernco Environmental Drilling and Coring Inc

Drilling Equipment/Method: ODEX/Split Spoon

Well Location: AEC 4

Project Name/No.: [REDACTED]

Client: PSPC

Engineer/Geologist: [REDACTED]

Drill Date: August 15 /16 2018

Page: 1 of 3

| Depth (ft/m) | Symbol | Soil / Sediment Description | Sample Type | % Recovery | Sample Analyzed | Sample ID | Headspace (PID) | | | | | Well Construction | Remarks |
|--------------|--------|---|-------------|------------|-----------------|---------------|-----------------|-----|------|------|------|-------------------|---------|
| | | | | | | | 0 | 500 | 1000 | 1500 | 2000 | | |
| 0 | | Ground Surface | | | | | | | | | | | |
| 0 | | TOP-SOIL Brown, topsoil, with some organics, soft, dry to moist, odours and/or staining not observed. | | | | | | | | | | | Stickup |
| 1 | | | | 100 | N | 4-MW18-8(0.3) | | 2.5 | | | | | |
| 2 | | | | | | | | | | | | | Sand |
| 3 | | SILT Brown, SILT with some organics, soft, dry, odours and/or staining not observed. | | | | | | | | | | | |
| 4 | | SILT and GRAVEL Light brown, SILT and fine to coarse GRAVEL with some fine to medium sand. Medium stiff, dry, odours and/or staining not observed. Becoming stiff at 1.5m | | 75 | N | 4-MW18-8(1.0) | | 1.2 | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | 75 | N | 4-MW18-8(1.5) | | 1.5 | | | | | |
| 7 | | Dark brown with some reddish brown at 2.0m | | | | | | | | | | | |
| 8 | | | | 75 | N | 4-MW18-8(2.2) | | 0.9 | | | | | |
| 9 | | Gravel lens at 2.5m | | | | | | | | | | | |
| 10 | | SAND and GRAVEL Brown to grey, fine to coarse SAND and fine to coarse GRAVEL with trace silt. Medium stiff, dry to moist, odours and or staining not observed. Cobble at 3.6m | | | | | | | | | | | |
| 11 | | | | 65 | N | 4-MW18-8(3.0) | | 0.3 | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | 65 | N | 4-MW18-8(3.8) | | 0.2 | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | Decreasing gravel at 4.8m | | | | | | | | | | | |
| 16 | | | | 65 | N | 4-MW18-8(4.5) | | 0.3 | | | | | |
| 17 | | SAND Brown to grey, fine to medium SAND. Loose, dry to moist, odours and/or staining not observed. | | | | | | | | | | | |
| 18 | | | | 65 | N | 4-MW18-8(5.2) | | 0.4 | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | 40 | N | 4-MW18-8(6.0) | | 0.4 | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | SAND and GRAVEL Grey to brown, fine to coarse SAND and fine to medium GRAVEL. Loose, dry to moist, odours and/or staining not observed. | | | | | | | | | | | |
| 23 | | | | 100 | N | 4-MW18-8(6.7) | | 0.6 | | | | | |

Date of Water Level: August 19, 2018
Water Level (from TOC): 16.82 m

Well-Borehole Diameter: 0.20 m
Well Casing Diameter: 0.05 m
Well Casing Material: Schedule 40 PVC
Well Screen Slot Size: 0.25 mm

Depth of Well (TOC): 18.34 m

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| | | | | | | | 0 | 500 | 1000 | 1500 | 2000 | | |
| 24 | | Becoming dry with decreasing gravel, fine to medium sand and fine gravel at 8.5m Cobble at 9.0m Becoming dense with increasing fine to medium gravel and fine to coarse sand. | | 100 | N | 4-MW18-8(8.6)/Dup18-F | 0 | 0 | 0 | 0 | 0 | | |
| 25 | | | | | | | 0.4 | | | | | | |
| 26 | | | | | | | 0.4 | | | | | | |
| 27 | | | | | | | 0.4 | | | | | | |
| 28 | | | | | | | 0.4 | | | | | | |
| 29 | | | | | | | 0.4 | | | | | | |
| 30 | | | | | | | 0.4 | | | | | | |
| 31 | | | | | | | 0.4 | | | | | | |
| 32 | | | | | | | 0.4 | | | | | | |
| 33 | | | | | | | 0.4 | | | | | | |
| 34 | 0.4 | | | | | | | | | | | | |
| 35 | 0.4 | | | | | | | | | | | | |
| 36 | 0.4 | | | | | | | | | | | | |
| 37 | 0.4 | | | | | | | | | | | | |
| 38 | 0.4 | | | | | | | | | | | | |
| 39 | 0.4 | | | | | | | | | | | | |
| 40 | 0.4 | | | | | | | | | | | | |
| 41 | 0.4 | | | | | | | | | | | | |
| 42 | 0.4 | | | | | | | | | | | | |
| 43 | 0.4 | | | | | | | | | | | | |
| 44 | 0.4 | | | | | | | | | | | | |
| 45 | 0.4 | | | | | | | | | | | | |
| 46 | 0.4 | | | | | | | | | | | | |
| 47 | 0.4 | | | | | | | | | | | | |
| 48 | 0.5 | | | | | | | | | | | | |

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| | | | | | | | 0 | 500 | 1000 | 1500 | 2000 | | |
| 49 | 15 | SAND Brown to grey, fine to medium SAND with some fine to medium gravel (rounded). Loose, dry to moist, odours and/or staining not observed. Becoming moist with increasing gravel at 15.0m Wet at 15.8m | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | |
| 51 | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | |
| 53 | 16 | SAND and GRAVEL Brown to grey, fine to very coarse SAND and fine to medium GRAVEL. Loose, wet, odours and/or staining not observed | | 100 | N | 4-MW18-8(16.3) | | 0.5 | | | | | |
| 54 | | | | | | | | | | | | | |
| 55 | | SILT Brown SILT with some gravel in the top 0.3m. medium stiff, wet, odours and/or staining not observed. | | 100 | N | 4-MW18-8(16.8) | | 0.8 | | | | | |
| 56 | 17 | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | |
| 58 | | Becoming grey, stiff and moist to wet at at 17.7m | | | | | | | | | | | |
| 59 | 18 | | | | | | | | | | | | |
| 60 | | End of Hole | | 100 | N | 4-MW18-8(18.0)/Dup18-G | | 0.5 | | | | | |
| 61 | | | | | | | | | | | | | |
| 62 | 19 | | | | | | | | | | | | |
| 63 | | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | |
| 66 | 20 | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | |
| 69 | 21 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | |
| 72 | 22 | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | |

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