

Technical Report

Title: *Drilling, Logging and Sampling of DGR-1 and DGR-2*

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Author: Sean Sterling

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DGR Site Characterization Document
Intera Engineering Project 06-219



Intera Engineering DGR Site Characterization Document		
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Author:	Sean Sterling	
Technical Review:	Kenneth Raven, Michael Melaney; Branko Semec (NWMO)	
QA Review:	John Avis	
Approved by:	 Kenneth Raven	

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Revision	Effective Date	Description of Changes
0	April 6, 2009	Initial release
1	June 17, 2010	Updated and revised stratigraphic descriptions provided on DGR-1 and DGR-2 logs in Appendix C and Appendix D. Inclusion of Lucas Formation dolostone as upper bedrock unit, revised top of formation for Salina A1 Unit

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1 Introduction

Intera Engineering Ltd. has been contracted by Nuclear Waste Management Organization (NWMO) on behalf of Ontario Power Generation to implement the Geoscientific Site Characterization Plan (GSCP) for the Bruce nuclear site located near Tiverton, Ontario. The purpose of this site characterization work is to assess the suitability of the Bruce site to construct a Deep Geologic Repository (DGR) to store low-level and intermediate-level radioactive waste. The GSCP is described by Intera Engineering Ltd. (2006, 2008).

This report summarizes the results of the drilling and core processing activities completed at two deep bedrock boreholes (DGR-1 and DGR-2) as part of Phase I of the GSCP. Work described in this Technical Report was completed in accordance with Test Plan TP-06-07 – DGR-1 and DGR-2 Drilling and Casing Installation (Intera Engineering Ltd., 2007a), Test Plan TP-06-10 - Core Sampling and Distribution for Laboratory Testing (Intera Engineering Ltd., 2007b), and Test Plan TP-06-09 – DGR-1 & DGR-2 Core Photography and Logging (Intera Engineering Ltd., 2007c). Work described in this Technical Report was completed following the general requirements of the DGR Project Quality Plan (Intera Engineering Ltd., 2009a).

2 Background

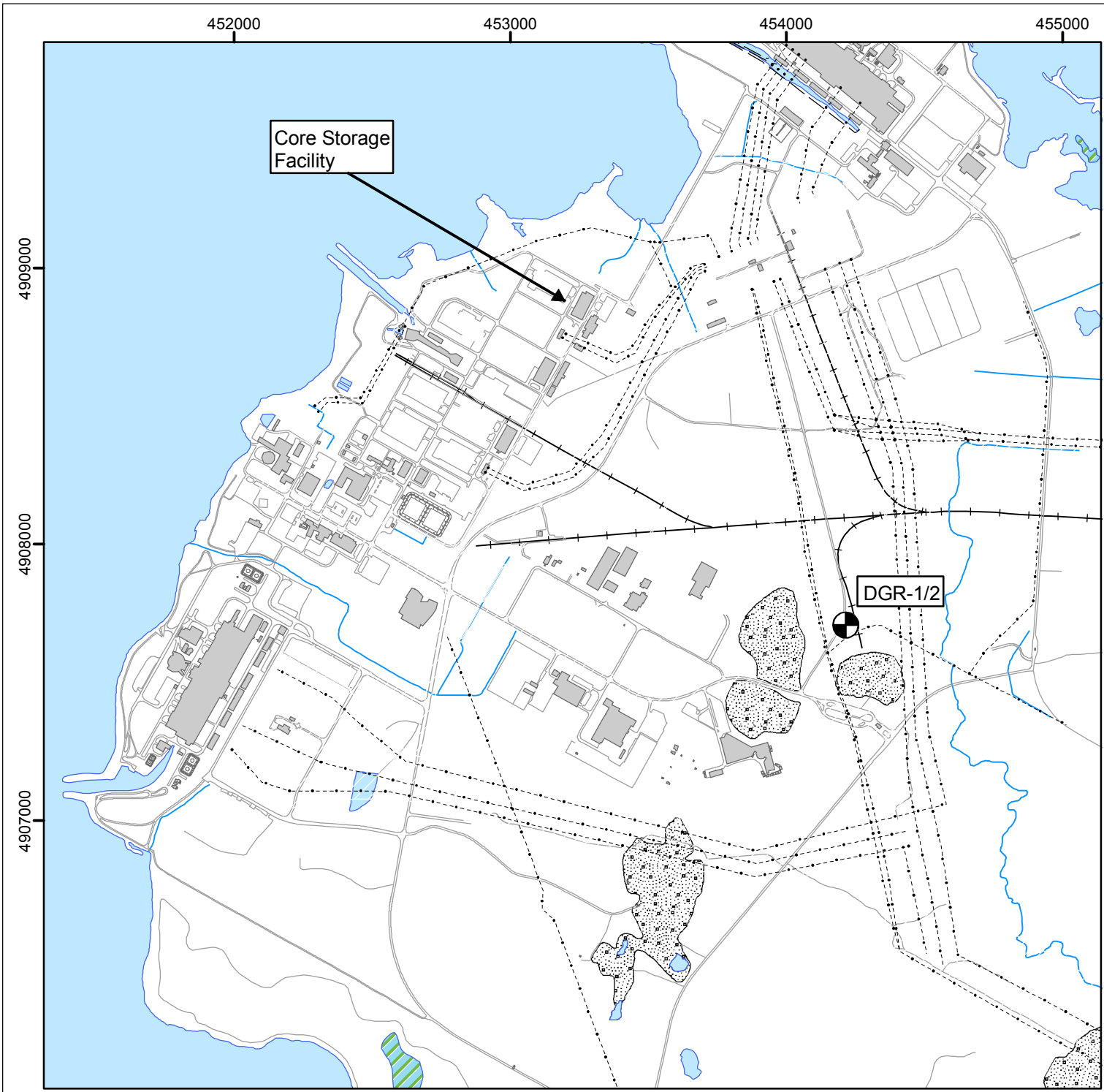
Phase 1 investigations including a deep bedrock drilling program of two vertical 159 mm (6¼ inch) diameter continuously cored boreholes (DGR-1 and DGR-2) to depths of approximately 462 and 862 meters below ground surface (mBGS), respectively was recently completed at the Bruce site. Both of these boreholes were drilled at one location, approximately 40 m apart from each other, at the Bruce site as shown on Figure 1. Surface casings were installed in both DGR-1 and DGR-2 during December 2006. Bedrock drilling of DGR-1 was completed between January 24 and April 4, 2007 and bedrock drilling of DGR-2 was completed between April 14 and August 3, 2007.

The purpose of drilling DGR-1 and DGR-2 was to confirm bedrock stratigraphy, provide core for laboratory, geological, geomechanical, hydrogeological and geochemical testing, and provide access for borehole geophysical testing, borehole hydraulic testing and future multi-level sampling, monitoring and testing. The information gathered from these boreholes will assist with interpretation of other site characterization studies (i.e. 2-D surface seismic surveys), assist with developing a descriptive geoscientific site model and guide future bedrock drilling programs in the GSCP.

Figure 2 shows the interpreted bedrock formation contact depths/elevations and subsurface nomenclature for the Bruce site based on the drilling and core logging activities completed at DGR-1 and DGR-2. The rationale for these formation picks are described in TR-08-12 – Bedrock Formations in DGR-1, DGR-2, DGR-3 and DGR-4 (Intera Engineering Ltd., 2009b).








3 Drilling Program

Davidson Drilling Limited (Davidson), based out of Wingham, Ontario, were retained as Intera Engineering Ltd. subcontractors to complete the borehole drilling and permanent casing installation at DGR-1 and DGR-2. DGR-1 and DGR-2 were designed to provide two separate boreholes, closely spaced, with open bedrock intervals through the relatively shallow dolostone and limestone formations of Silurian and Devonian age (DGR-1) and through the relatively deeper shale and limestone formations of Ordovician age (DGR-2), respectively. DGR-1 was completed with an open bedrock interval from the top of the Salina Formation F-Unit shale (approximately 182 mBGS) to approximately 15 m into the top of the Queenston Formation (463 mBGS). DGR-2 was completed with an open bedrock interval from the top of the Queenston Formation (450 mBGS) to approximately 1 m into the Precambrian basement (862 mBGS). Two separate boreholes were designed to minimize vertical cross connection and cross contamination of groundwater between the shallow and deep hydrogeologic environments with distinctly different chemistry.



OPG DGR
Site Characterization Plan

Legend

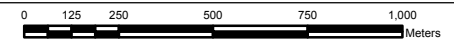
-  Location of DGR-1/2
-  Buildings
-  Roads
-  Railway
-  Transmission Line
-  Pits or Landfills
-  Stream or Drainage

Location of DGR-1 and
DGR-2 at the Bruce Site

Figure 1



Scale 1:20,000 (approx.)

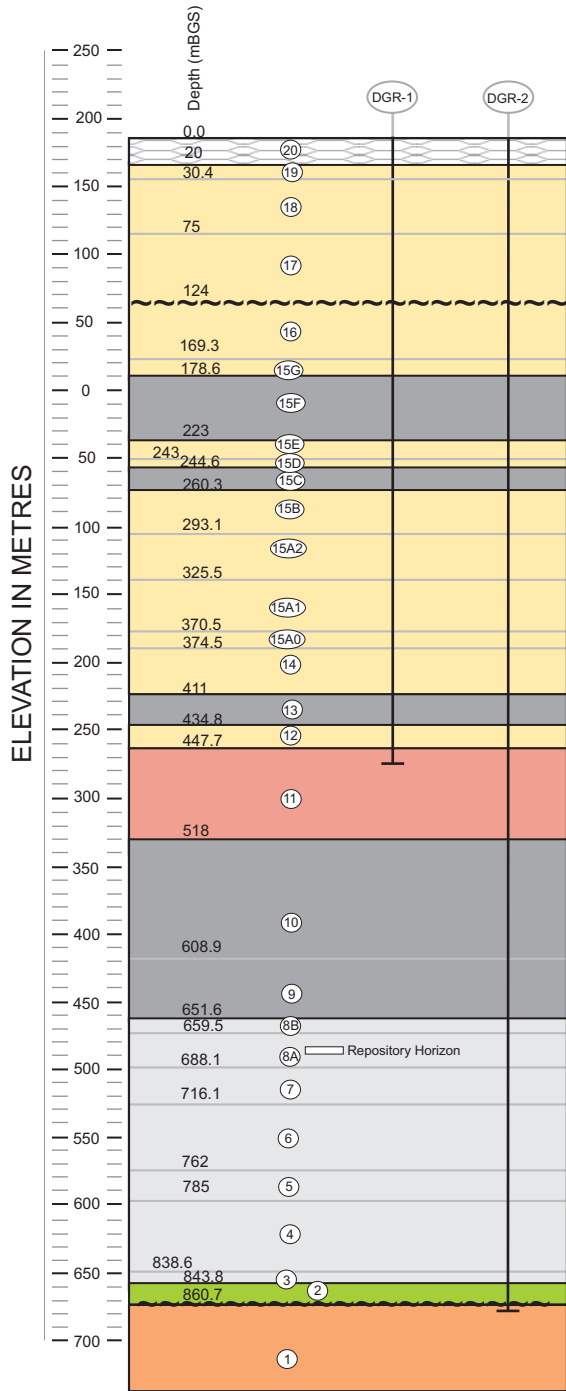


Date: 27/02/2008 Drawn: NKP
 Project: 06-219 Checked: SNS
 P:/Projects/2006/06-219/QMS_DGR/TR_Working Files/
 TR-07-10/TR-07-06_Figure 1.mxd

Projection: UTM NAD 83 Zone 17

Data Credits:
 NRVIS/OBM, MNR, Ontario Power Generation, Bruce Power





LEGEND - BRUCE SITE STRATIGRAPHY

- PLEISTOCENE**
20 SURFICIAL DEPOSITS
- MIDDLE DEVONIAN**
19 LUCAS FORMATION - DOLOSTONE
18 AMHERSTBURG FORMATION - DOLOSTONE
- LOWER DEVONIAN**
17 BOIS BLANC FORMATION - CHERTY DOLOSTONE
~~~~~ SILURIAN / DEVONIAN DISCONTINUITY
- UPPER SILURIAN**  
16 BASS ISLANDS FORMATION - DOLOSTONE  
15 SALINA FORMATION  
15G G UNIT - ARGILLACEOUS DOLOSTONE  
15F F UNIT - DOLOMITIC SHALE  
15E E UNIT - BRECCIATED DOLOSTONE AND DOLOMITIC SHALE  
15D D UNIT - ANHYDRITIC DOLOSTONE  
15C C UNIT - DOLOMITIC SHALE AND SHALE  
15B B UNIT - ARGILLACEOUS DOLOSTONE AND ANHYDRITE  
15A2 A2 UNIT - DOLOSTONE AND ANHYDRITIC DOLOSTONE  
15A1 A1 UNIT - ARGILLACEOUS DOLOSTONE AND ANHYDRITIC DOLOSTONE  
15A0 A0 - BITUMINOUS DOLOSTONE
- MIDDLE SILURIAN**  
14 GUELPH, GOAT ISLAND, GASPORT, LIONS HEAD AND FOSSIL HILL FORMATIONS - DOLOSTONE AND DOLOMITIC LIMESTONE
- LOWER SILURIAN**  
13 CABOT HEAD FORMATION - SHALE  
12 MANITOULIN FORMATION - CHERTY DOLOSTONE AND MINOR SHALE
- UPPER ORDOVICIAN**  
11 QUEENSTON FORMATION - RED SHALE  
10 GEORGIAN BAY FORMATION - GREY SHALE  
9 BLUE MOUNTAIN FORMATION - DARK GREY SHALE
- MIDDLE ORDOVICIAN**  
8 COBOURG FORMATION  
8B COLLINGWOOD MEMBER - BLACK CALCAREOUS SHALE AND ARGILLACEOUS LIMESTONE  
8A LOWER MEMBER - ARGILLACEOUS LIMESTONE  
7 SHERMAN FALL FORMATION - ARGILLACEOUS LIMESTONE  
6 KIRKFIELD FORMATION - ARGILLACEOUS LIMESTONE  
5 COBOCONK FORMATION - BIOTURBATED LIMESTONE  
4 GULL RIVER FORMATION - LITHOGRAPHIC LIMESTONE  
3 SHADOW LAKE FORMATION - SILTSTONE AND SANDSTONE
- CAMBRIAN**  
2 CAMBRIAN SANDSTONE  
~~~~~ CAMBRIAN / PRECAMBRIAN UNCOMFORMITY
- PRECAMBRIAN**
1 PRECAMBRIAN BASEMENT - GRANITIC GNEISS

NOTE:
1. SUBSURFACE STRATIGRAPHIC NOMENCLATURE AFTER ARMSTRONG AND CARTER (2006)

**Bedrock Stratigraphic Column at the Bruce Site
TR-07-06: Drilling, Logging and Sampling of DGR-1 and DGR-2**

Prepared by: ADG
Reviewed by: KGR
Date: 16-Jun-10

FIGURE 2

Doc. No.: TR-07-06_Figure 2-BR Stratigraphy DGR-1_2_R1.cdr



3.1 Ontario Ministry of Natural Resources (MNR) Drilling Regulations

All work associated with the drilling program was completed in accordance with the Ontario Ministry of Natural Resources (MNR) Oil, Gas and Salt Resources of Ontario, Provincial Operating Standards, Version, 2.0 (MNR Standards) which covers Well Drilling and Works regulated by the Oil, Gas and Salt Resources Act (OGSRA). As such, blow-out prevention (BOP) equipment was utilized for all drilling activities below top of bedrock to address the possibility of potential gas-pressurization issues, however no significant oil or gas was encountered while drilling DGR-1 or DGR-2.

DGR-1 was drilled under Ministry of Natural Resources (MNR) Well License No. 11582 and is located at NAD83 UTM Zone 17N, 4907753.243 m Northing and 454239.777 m Easting with a ground surface elevation of 185.709 m above sea level (m ASL). Similarly, DGR-2 was drilled under MNR Well License No. 11583 and is located at NAD83 UTM Zone 17N, 4907720.300 m Northing and 454208.921 m Easting with a ground surface elevation of 185.836 m ASL. Copies of the MNR Well Licences are included in Appendix A.

All depths of core runs and sub-sample locations were measured from a common reference point which was selected prior to the start of drilling each borehole. For both DGR-1 and DGR-2, the reference datum was ground surface which was approximated as the top of the concrete cellar installed below the drill table to accommodate the BOP equipment. All deliverables to the MNR (MNR Drilling License Applications, Drilling Completion Records - MNR Form 7, Drill cutting chip samples) are required to express depths in units of m below the drilling rig Kelly Bushing (mBKB). Ground surface reference datum was measured to be approximately 2.20 mBKB of the drilling rig at DGR-1 and approximately 2.15 mBKB at DGR-2.

3.2 Drilling Fluids

Drilling was completed using a combination of fresh water- and brine-based drilling fluids, depending on the expected in-situ bedrock formation chemistry, to cool the bit and clean the cuttings from the borehole. Fresh water was treated Lake Huron water. Drilling fluid additives (polymers) were used as necessary to improve the efficiency of cuttings removal. In addition, sodium fluorescein (NaFl), a fluorescent green dye, was added to the drilling fluid as a tracer to assess the level of impact or drilling operations during groundwater sampling. The details of drilling fluid preparation, management and testing are described in TR-07-09 – Drilling Fluid Management and Testing in DGR-1 and DGR-2 (Intera Engineering Ltd., 2009c). In general, fresh water drilling fluids were used to drill the bedrock above the Salina Formation F-Unit shale and brine-based drilling fluids were used to drill the bedrock formations below this depth.

All drilling fluids were prepared using treated (filtered, chlorinated) Lake Huron water which was obtained from an outside service outlet at OPG Building B-19 (Spent Solvent Treatment Facility) on the Bruce Site. Treated Lake Huron water was trucked from Building B-19 by Davidson Drilling and pumped into mixing and holding tanks at the DGR-1/2 drill site. All borehole drilling fluids and cuttings were diverted from the borehole into storage tanks such that the cuttings could be settled out and the drilling fluid re-used for drilling operations.

3.3 Drilling Methods

All drilling and coring activities for DGR-1 and DGR-2 were completed using a truck-mounted rotary drilling rig manufactured by Versa-Drill (model: V2000NG, 2006) equipped with hydraulic top-head power swivel. With the exception of the upper section (above ~ 450 mBGS) of DGR-2, which was rotary drilled using a tri-cone bit, all bedrock sections were continuously cored to create a 159 mm diameter borehole and subsequently reamed to a larger borehole size to accommodate permanent casing installation. All bedrock coring was completed using a double-tube wireline coring system with a split inner barrel, manufactured by American Diamond Products (formerly Christensen), that produces a 159mm (6¼ inch) diameter borehole and a 76mm (3-inch) diameter high quality core in 3.05 m (10 foot) lengths. On occasion it was necessary to core a shorter length to accommodate

difficult drilling conditions.

This coring equipment was upgraded to triple-tube in an effort to maximize core recovery and quality by using a plastic sleeve that fits inside of the split-tube inner core barrel for coring from 23.1 to 96 mBGS in DGR-1. These plastic liners required a slightly smaller coring bit that produced the same 159mm diameter borehole with a slightly smaller diameter core (67mm, 2⁵/₈ inch). These plastic sleeves were disposable and a new sleeve was used for each core run. However due to difficult drilling conditions this plastic core liner frequently became jammed in the bottom of the core barrel which prevented core from entering the barrel, therefore the plastic core liners were not used for the remainder of DGR-1 or DGR-2 coring.

A variety of drilling bits were used, depending on the subsurface conditions encountered, and included polycrystalline diamond (PCD) bits, diamond impregnated bits, surface set diamond bits (flat cutter and saw tooth style), and carbonado diamond bits. A combination of diamond impregnated and surface set diamond bits were used during the upper 75 m of DGR-1, however due to difficult drilling conditions these bits either wore out or were not considered useful. The most effective bits were PCD bits while drilling through the shales and dolostone/limestone sequences and a carbonado diamond bit for harder bedrock conditions below approximately 815 mBGS through the extremely hard Cambrian sandstone.

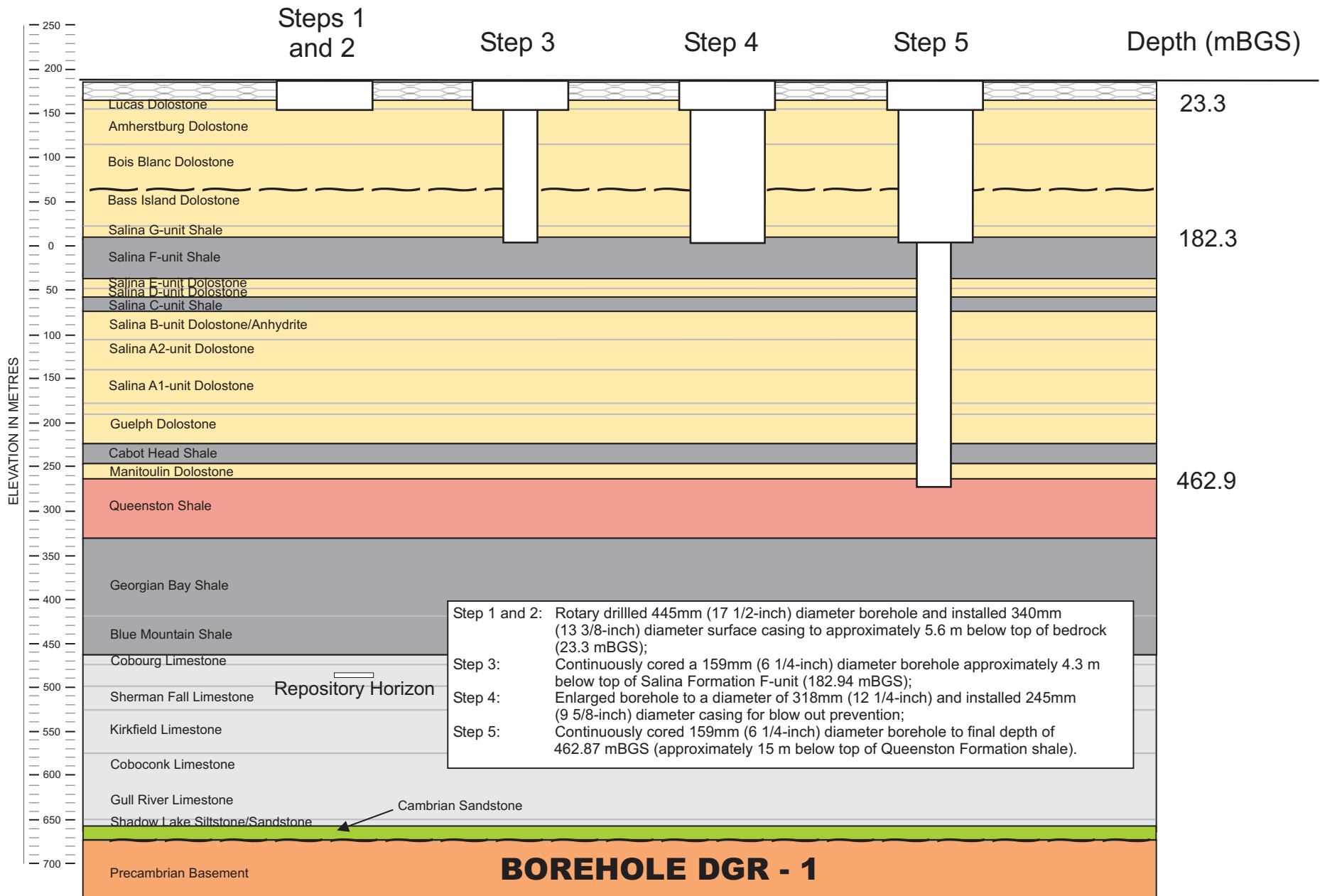
Throughout the drilling program, PCD bits were operated with a bit rotation speed of approximately 60 to 90 revolutions per minute (RPM) with a torque of approximately 1800 to 2200 foot pounds (ft*lbs). Diamond impregnated and surface set diamond bits were operated at 90-130 RPM with a torque of approximately 1800 to 2400 ft.lbs. The coring times for a 3.05 m length of core ranged from 5-10 minutes (Cabot Head, Lions Head, Queenston, Blue Mountain Formations) to 3-5 hours (Lucas, Amherstburg, Bois Blanc, Gull River and Coboconk formations and the Cambrian sandstone) with an average time of 45 minutes.

3.3.1 Borehole and Casing Sizes

In order to meet the casing requirements of the MNR Standards multiple telescoped-casing installations were necessary to provide a permanent seal between various aquifers within the Devonian and Silurian formations and to provide suitable blow-out prevention in the event of drilling through a gas-pressurized zone. Table 1 summarizes the final borehole diameter and casing sizes for both DGR-1 and DGR-2.

| Table 1 Summary of Borehole and Casing Sizes for DGR-1 and DGR-2 | | | | | |
|---|--------------------------------|--------------------------|-------------|--------------------|-------------|
| Casing String / Borehole | Bottom Depth
(mBGS) | Borehole Diameter | | Casing Size | |
| | | (inch) | (mm) | (inch) | (mm) |
| DGR-1 | | | | | |
| surface casing | 23.3 | 17 ½ | 445 | 13 ¾ | 340 |
| intermediate casing | 182.3 | 12 ¼ | 318 | 9 ⅝ | 245 |
| main borehole | 462.9 | 6 ¼ | 160 | open borehole | |
| DGR-2 | | | | | |
| surface casing | 23.4 | 24 | 610 | 20 | 508 |
| intermediate casing # 1 | 189.2 | 17 ½ | 445 | 13 ¾ | 340 |
| intermediate casing # 2 | 450.7 | 12 ¼ | 318 | 9 ⅝ | 245 |
| main borehole | 862.25 | 6 ¼ | 160 | open borehole | |

Figures 3 and 4 show the sequence of drilling sizes and permanent casing installations for DGR-1 and DGR-2, respectively. Each drilling and casing program is discussed in further detail below.



Bedrock Drilling and Casing Installation Sequence - Borehole DGR-1
Technical Report: TR-07-06 Drilling, Logging and Sampling of DGR-1 and DGR-2

Prepared by: NKP

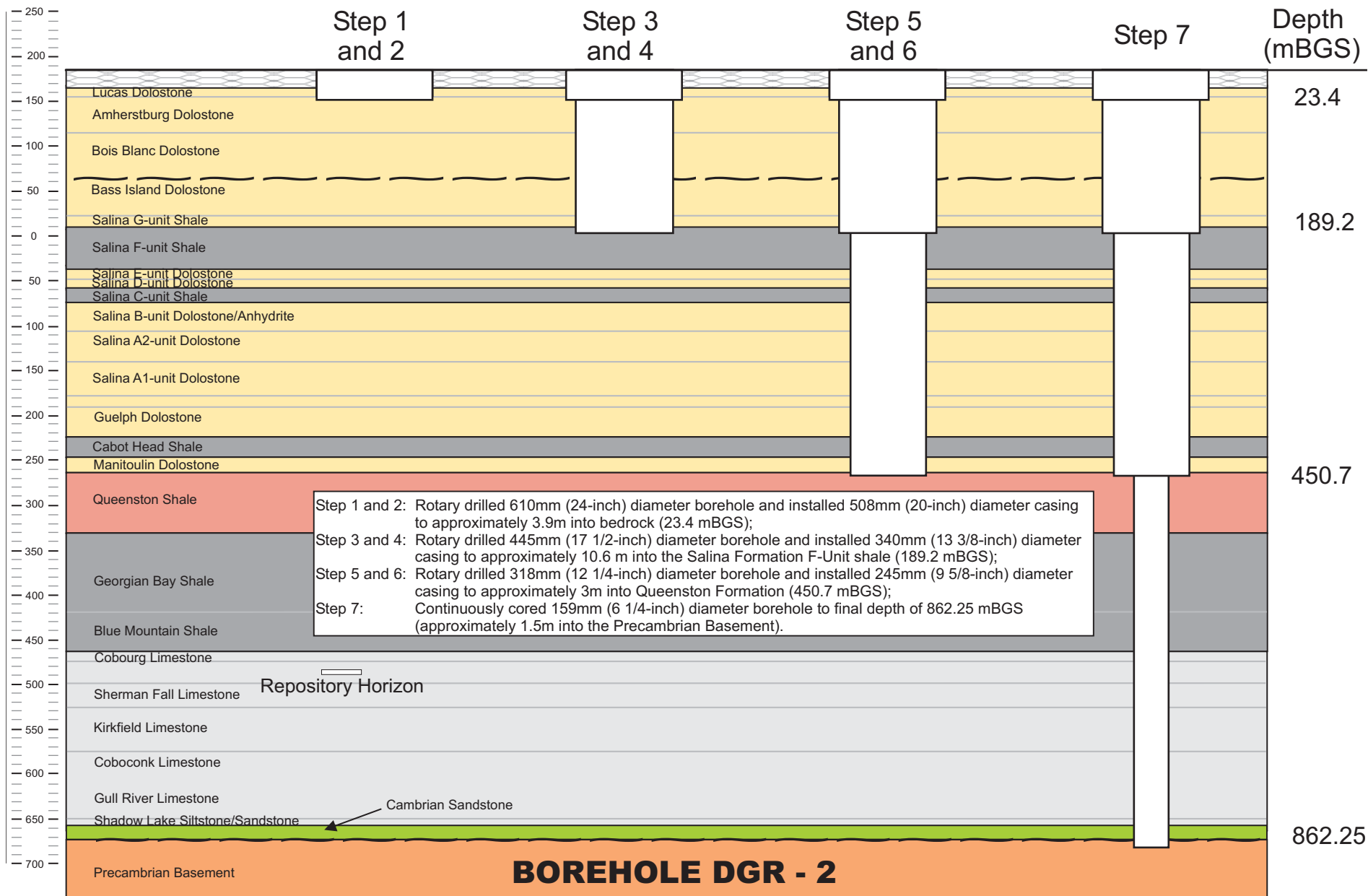
Reviewed by: KGR

Date: Apr 7, 2009

FIGURE 3

Doc. No.: TR-07-06_Figure 3_R0.cdr





Bedrock Drilling and Casing Installation Sequence - Borehole DGR-2
Technical Report: TR-07-06 Drilling, Logging and Sampling of DGR-1 and DGR-2

Prepared by: NKP

Reviewed by: KGR

Date: Apr 7, 2009

FIGURE 4

Doc. No.: TR-07-06_Figure 4_R0.cdr



3.3.2 DGR-1 Drilling and Casing Sequencing

As shown in Figure 3, DGR-1 was drilled in the following manner:

- Step 1:* Rotary drilled 445 mm (17½ inch) diameter borehole using mud rotary techniques with a tri-cone drill bit through overburden sediments to 23.3 mBGS (approximately 5.6 m below top of bedrock);
- Step 2:* Installed 340mm (13⅜ inch) diameter surface casing from bottom of borehole (23.3 mBGS), extending above ground surface;
- Step 3:* Continuously cored 159mm (6¼ inch) diameter borehole from 23.3 mBGS to 182.94 mBGS (approximately 4.3 m into competent shale, i.e. Salina Formation F Unit);
- Step 4:* Enlarged borehole to a diameter of 318mm (12¼-inch) using tricone bit and reaming equipment to accommodate installation of 245mm (9 5/8-inch) diameter casing for blow out prevention; and,
- Step 5:* Continuously cored 159mm (6¼ inch) diameter borehole to final depth of 462.87 m (approximately 15 m below top of Queenston Formation shale).

3.3.3 DGR-2 Drilling and Casing Sequencing

Similarly, Figure 4 shows the steps completed during bedrock drilling at DGR-2:

- Step 1:* Rotary drilled 610 mm (24 inch) diameter borehole using mud rotary techniques with a tri-cone drill bit through overburden sediments to 23.4 mBGS (approximately 3.9 m below top of bedrock);
- Step 2:* Installed 508mm (20 inch) diameter surface casing from bottom of borehole (23.4 mBGS), extending above ground surface;
- Step 3:* Rotary drilled 445 mm (17½ inch) diameter borehole using mud rotary techniques with a tri-cone drill bit to 189.2 mBGS (approximately 10.6 m below top of Salina Formation F Unit shale);
- Step 4:* Installed 340mm (13⅜ inch) diameter surface casing from bottom of borehole (189.2 mBGS), extending above ground surface;
- Step 5:* Rotary drilled 318 mm (12¼ inch) diameter borehole using mud rotary techniques with a tri-cone drill bit to 450.7 mBGS (approximately 3 m below top of Queenston Formation);
- Step 6:* Installed 245mm (9 5/8-inch) diameter surface casing from bottom of borehole (450.7 mBGS), extending above ground surface;
- Step 7:* Continuously cored 159mm (6¼ inch) diameter borehole to final depth of 862.25 m (approximately 1.5 m below top of Precambrian basement)

3.3.4 Casing Installation Methods

All casing strings were installed in accordance with the procedures outlined in TP-06-07 (Intera Engineering Ltd., 2007a) and can be summarized as follows:

- Casing was raised above bottom of borehole by approximately 0.6 m to ensure proper cement seal below steel casing and was extended above ground surface;
- Centralizers were installed at sufficient depths to ensure the casing was centred in the borehole. All casing was flush-jointed threaded steel casing;
- All initial cementing operations were completed by Schlumberger Canada Limited (Schlumberger), based in London, Ontario;
- All initial cementing completions were inspected by an MNR certified well examiner. Copies of each well examiner report are included in Appendix B;

- The initial cementing procedures involved injecting Class 'G' neat cement plus 2% CaCl₂ by weight with a minimum of 50 to 100% excess cement down the inside of the casing, below a wiper plug and using positive displacement methods to force cement to rise up the annulus between the casing and the borehole wall;
- Cement/grout samples were collected to represent the cement at the beginning, middle and end of the cement job. The samples were inspected for consistency and allowed to cure for 24 hours prior to a final inspection to ensure proper curing. All samples passed inspection.
- The cement in the borehole was allowed to cure for a minimum of 24 hours before performing annular cement level check or re-entering the borehole to commence bedrock drilling below the bottom of casing;
- If cement was not visible at surface behind the casing, the cement top was determined and remedial cementing operations were completed by either Schlumberger or Davidson to ensure cement was filled to surface;
- If remedial cementing was required, cement bond logs (sonic borehole geophysical logs) were completed over the cemented area to assess the integrity of the cementing seal. Bond logs were completed by Lotowater Technical Services, based in Waterloo, Ontario.

3.4 Drilling Conditions

Top of weathered bedrock was encountered at depths of 17.68 mBGS and 19.5 mBGS for DGR-1 and DGR-2, respectively. The overburden at both sites consisted of approximately 2-3 m of gravel fill underlain by approximately 15-17 m of unconsolidated till over the upper weathered contact of the Lucas Formation dolostone.

3.4.1 Rock Quality

The structural quality of bedrock formations as determined from continuous core samples indicates that bedrock formations above the Salina Formation G Unit (Lucas, Amherstburg, Bois Blanc, Bass Islands) were highly fractured and permeable. This is evidenced by the poorer structural bedrock quality measurements (% recovery, rock quality designation, RQD) above the Salina G Unit compared to below the G Unit. These measurements were collected during core logging activities as discussed in Section 4.3 and are illustrated in the borehole logs for DGR-1 (Appendix C) and DGR-2 (Appendix D). The Bois Blanc and Bass Islands Formations were particularly troublesome to core and exhibited total core recovery and RQD values consistently below 50%. Some of these coring difficulties in the Bois Blanc and Bass Islands Formations are thought to be due the presence of alternating hard (chert) and soft beds and the use of plastic core liners. All bedrock formations below this depth exhibited much stronger structural quality measurements approximating 100%.

3.4.2 Zones of Drilling Fluid Loss

During drilling and coring activities, the volume of drilling fluids in the circulation tanks at ground surface were manually monitored during each core run using a graduated measuring staff with 1-inch increments to help identify significant permeable bedrock zones where the volume in the tanks dropped. While drilling at DGR-1 and DGR-2 the only significant zones of drilling fluid loss were above the Salina G Unit (169.3 mBGS); below this depth there was virtually no measureable drilling fluid loss while coring. Above the Salina G Unit approximately 1-2 m³ of drilling fluid was consistently lost into the formation during each 3.05 m core run. In addition, there were 4 permeable intervals where drilling fluid loss was greater than 2 m³ per core run and include:

- 50-65 mBGS in the Amherstburg Formation (2-3 m³ / core run);
- 95 mBGS in the Bois Blanc Formation (4-5 m³ / core run);
- 115-130 mBGS in the Bois Blanc / Bass Islands Formation (3-5 m³ / core run); and,

- 140-169 mBGS in the Bass Island Formation (8 m³/ core run).

Drilling fluids were augmented with hole cleaning biopolymers and polysaccharide fluid loss reducers during drilling through these zones of drilling fluid loss (see TR-07-09).

3.4.3 Cambrian Sandstone Overpressure in DGR-2

Although there were no zones where drilling fluid was lost during coring operations in DGR-2, flowing artesian conditions were encountered while drilling through the Cambrian sandstone at a depth of approximately 843 to 860 mBGS. The estimated flow rate of brine formation fluids increased from approximately 1 m³/day (3 m of exposed Cambrian sequence and drilling fluid column density of 1240 kg/m³) to 125 m³/day (17 m of exposed formation and a drilling fluid column density of 1170 kg/m³) as drilling advanced and exposed a larger length of the Cambrian sequence and/or changes in the drilling fluid column density.

In order to control the fluid flows, the BOP was shut-in after coring through the top 3 m of Cambrian sandstone and the downhole pressures were monitored at the wellhead. The density of drilling fluid was increased to 1230 kg/m³, the maximum obtainable density by adding NaCl and CaCl₂, to prepare for further drilling. Table 2 summarizes the wellhead pressures measured at various stages of drilling through the Cambrian sandstone and also lists the shut-in method, the drill fluid column density and the calculated in-situ formation pressures. The calculated formation pressures were consistently 10,500 to 11,000 kPa, regardless of the depth of Cambrian sandstone exposed, the drilling fluid density or the method of type of shutting in the well.

Table 2 Summary of Shut in Pressures for Cambrian Sandstone in DGR-2 During Drilling

| Date | Type of Shut-in | Wellhead Pressure (kPa) | Drill Fluid Column Density (kg/m ³) | Calculated In-Situ Formation Pressure (kPa) ¹ |
|---------------|---|-------------------------|---|--|
| June 25, 2007 | 36 Hours of surface BOP shut-in | 1310 | 1,100 | 10,660 |
| June 28, 2007 | 90 Minutes of surface BOP shut-in | 450 | 1,240 | 10,990 |
| July 4, 2007 | Downhole packer inflation with surface shut-in on | 2000 | 1,040 | 10,840 |
| July 20, 2007 | 5 Hours of surface BOP shut-in | 1034 | 1,170 | 10,980 |

¹ Assuming a fluid column depth of 850m

The presence of high fluid pressures in the Cambrian sandstone required that a removable production-injection packer be set in DGR-2 immediately above Cambrian sandstone to allow safe operations for hydraulic testing in DGR-2 and to eliminate the production of formation fluid during geophysical logging and hydraulic testing in DGR-2.

3.4.4 Oil and Gas Occurrences

No evidence of commercial oil or gas occurrence was observed during the drilling of DGR-1 and DGR-2. Very minor occurrence of oil was observed in the pore space of core collected from the bottom of the Salina A1 carbonate and from the Coboconk, Gull River and Shadow Lake formations. Petroliferous odours were reported for core collected from the Georgian Bay, Blue Mountain and Collingwood shales.

3.5 Borehole Testing

3.5.1 Borehole Orientation

Borehole orientation tests were completed after each 50 m of drilling using an AOI Instrumentation® drift indicator system manufactured by Acadiana Oilfield Instruments Inc., based in Lafayette, Louisiana. This mechanical borehole orientation equipment was run on a wireline inside of the drill rods at the targeted depth and measures the total deviation from vertical along the length of borehole from ground surface to the measurement depth. The maximum reported borehole inclination during any one measurement was ½ degree and 7/8 degree from vertical for DGR-1 and DGR-2, respectively. Similarly, the inclination near the bottom of each borehole was ¼ degree and ¾ degree from vertical for DGR-1 and DGR-2, respectively.

3.5.2 Opportunistic Groundwater Sampling While Drilling

Groundwater samples were collected during drilling operations to quantify, as best possible, the groundwater concentrations prior to drilling fluid influence in sections where there was a noted loss of drilling-fluid circulation. Once a location was identified for opportunistic sampling the rods were pulled from the borehole and a production-injection packer was lowered on a string of drill tubing, creating an isolated sampling zone below the packer.

Opportunistic groundwater samples were collected during drilling from six intervals; five from the Devonian and upper Silurian dolostone in DGR-1 and one from the Cambrian sandstone in DGR-2. Details of opportunistic groundwater sampling and the results of analyses are presented in TR-07-11 – Opportunistic Groundwater Sampling in DGR-1 and DGR-2 (Intera Engineering Ltd., 2010).

3.5.3 Other Borehole Tests

Following drilling operations at each borehole, several other tests were completed in the boreholes, and are described in detail in the following Technical Reports:

- Borehole geophysical logging in DGR-1 and DGR-2 (TR-07-08);
- Fluid electrical conductivity logging in DGR-1 (TR-07-14);
- Borehole straddle packer testing in DGR-1 and DGR-2 (TR-08-32); and
- Westbay MP55 casing completions (TR-07-10).

4 Core Processing

Immediately following core retrieval to surface, the core was transported to the Core Receiving Trailer where it was photographed, logged, sampled and transferred to a wooden core box for long-term storage. To minimize the potential for alteration of rock porewater chemistry from in-situ conditions or the creation of stress relief and weathering induced fractures, recovered core was processed as quickly as possible following core retrieval to surface. Generally, the cumulative elapsed times from core retrieval at surface (i.e. core barrel opened) until the completion of each sequential stage of core logging and sampling was: core photography (10 minutes), initial core logging and sample identification (20 minutes), sample preservation (30 to 45 minutes), detailed core logging (30 to 45 minutes), and core transfer into wooden core boxes (35 to 50 minutes).

Core runs were identified in sequential order from top of bedrock and include the borehole identifier and start and finish depths (e.g. DGR-1, Core Run 70, Depth 185.32 to 188.37 mBGS). All depths were referenced to ground surface as discussed in Section 3.1. In total, 160 core runs were completed in DGR-1 and 146 were completed in DGR-2.

4.1 Core Photography

Prior to core logging and sampling, each core run was photographed using a high resolution digital SLR camera (Canon Rebel XT: 8.0 megapixel images) mounted on a specialized photography table with dedicated lighting to minimize shadows and glare. Core photography was completed following the procedures as described in TP-06-09 (Intera Engineering Ltd., 2007c).

A series of six photographs were taken at consistent, pre-set locations along each core run, each of which was designed to capture approximately 1/5 (0.61 m) of the full length core run (3.05 m) resulting in approximately 15 cm of overlap between adjacent pictures. Prior to full core photography, the core was wiped cleaned using a damp cloth moistened with traced drilling fluid to remove excess drill cuttings and mud. The cleaned core provided a damp surface that enabled high quality photos of the core features to be captured in detail. Figure E.1 (Appendix E) shows an example of the six sequential core run pictures for DGR-1, Core Run 70 (185.32 to 188.37 mBGS in the Salina F Unit).

Each core photograph includes:

- a core identification card providing the project number, borehole ID, date, depth below ground surface to the top of the core run in metres, and the core run number;
- a Kodak color control patch card;
- a number identifying the sequence of the picture in the core run (e.g. the first picture at the top of the core will be picture 1, the last picture at the bottom of the core will be picture 6); and,
- an arrow pointing downwards.

In addition to the series of six pictures capturing the complete core run prior to logging and sampling, core photographs were also collected for three other purposes:

- Detailed close-up photographs of core features were also collected during core logging to capture evidence of various geological irregularities and features such as fractures, inclusions, precipitate, etc. Examples of these geological close-up core pictures are shown in Figure E.2.
- Close-up pictures of each intact core sub-sample targeted for analyses were taken immediately prior to preservation. These pictures capture an image of each core sample to reference during interpretation or core testing results and were collected following the procedures as described in TP-06-10 (Intera Engineering Ltd., 2007b). A summary of core sampling is included in Section 4.3. Examples of these core sub-samples targeted for testing are shown in Figure E.3.
- Pictures of each complete core run taken after transfer into a wooden core box to provide a reference of sub-sample locations within a core run after core logging was complete. Examples of core box pictures are shown in Figure E.4.

Digital photographs taken for these additional three purposes were collected using a hand-held Pentax digital camera with 7.1 megapixel images.

The complete library of core photos is available on request on a set of DVDs.

4.2 Core Logging

Each core run was logged by geological staff trained in coring and logging of the Paleozoic sedimentary bedrock formations in Ontario. Core logging was completed following the procedures described in TP-06-09 (Intera

Engineering Ltd., 2007c). Core logging was continuous and included descriptions of bedrock stratigraphy, sedimentological features, discontinuity characteristics, core sub-sample locations and comments recording any additional relevant observations made by the site geologist. Core logging generally followed the guidelines of Armstrong and Carter (2006) for stratigraphic logging and nomenclature and ISRM (Publ. 1978) for overall core quality and discontinuity descriptions. The borehole logs for DGR-1 (Appendix C) and DGR-2 (Appendix D) summarize the geological information collected on the core logging sheets. Cover sheets for each borehole log describe the symbols used on each log and the definitions of RQD, core quality description, formation fracture occurrence, bedding classification and texture guidelines used in completing the borehole logs.

Following full core photography and prior to geological logging, two parallel lines were marked along the entire length of the core axis using permanent markers to provide a permanent record of core top and core bottom. Generally, red and black permanent markers were used with the red marker on the right (“red on right”) while looking from the bottom of the core towards the top. White and black wax pencils (“white on right”) were used on shale sections of core with a higher moisture content / softer surface that did not allow the permanent markers to adhere.

A separate core logging sheet was completed for each core run which included a brief description of stratigraphic and sedimentological observations such as rock colour, rock texture (grain size), primary rock type (i.e. dolostone, limestone, shale, sandstone, etc.), descriptors of secondary rock types (i.e. argillaceous limestone, dolostone with shale laminations, etc.), sedimentological features (stylolites, fossils), and secondary alterations (gypsum/anhydrite/chert nodules/casts/inclusions, staining, precipitate, etc). In addition, each core run was logged for discontinuity characteristics including total core recovery (%), fracture frequency (#/m), Rock Quality Designation (RQD, %) and individual natural fractures and artificial breaks in accordance with ISRM Suggested Methods (ISRM, Publ. 1978). The core axis angle for discontinuities was measured using a protractor relative to the core marker line. Completed field core logging sheets are Technical Activity Records and are maintained by Intera Engineering Ltd.

4.3 Core Sampling

Following photography and logging of core, samples were selected for subsequent laboratory geochemical, mineralogical, petrophysical (including diffusion), geomechanical and porewater characterization testing and field geomechanical testing. In addition, samples were frequently collected from each bedrock formation as archive samples for future analyses if needed.

Core samples were identified as XXXX-mmm.mm, where XXXX is the borehole name (e.g., DGR-1) and mmm.mm is the distance in meters from the borehole reference datum (ground surface) to the sample interval midpoint. Samples were generally collected and preserved within 30 minutes of core arriving at surface.

Table 3 provides a summary of the samples collected for analyses based on Formation age (i.e., Devonian, Silurian, Upper and Middle Ordovician, Cambrian and Precambrian). Table F.1 (Appendix F) lists each core subsample collected from DGR-1 and DGR-2, sorted by depth with information on: sample ID, core run number, date collected, sample length, geological formation, and the tests to be performed on the sample. Some samples were targeted for more than one analyses and therefore the subsequent analyses are also listed. Borehole logs given in Appendix A and B also show the location of each core sample submitted for laboratory testing and the type of testing to be undertaken. Appendices A and B and Tables 3 and F.1 are accurate to the date of the initial sample collection and submission to laboratories for testing (i.e. archive samples submitted to laboratories for later testing are not included).

The identification of gradational formation contacts was imprecise in the field and was not finalized until after completion of the core testing. Consequently some samples were collected from stratigraphically similar formations located slightly above and below the Formations originally targeted for sampling. As a result, the

number of samples collected from each formation may differ somewhat compared to the collection requirements outlined in Test Plans TP-06-10 and TP-06-13 (Intera Engineering Ltd., 2007d).

| Test | Devonian & Silurian | Upper Ordovician | Middle Ordovician | Cambrian / Precambrian | Total |
|--|--------------------------------|-------------------------|--------------------------|-------------------------------|--------------|
| Uniaxial Compression Tests (CANMET) | 5 | 12 | 20 | 0 | 37 |
| Free Swell Tests (UWO) | 0 | 15 | 3 | 0 | 18 |
| CAI Testing (Mirarco/Laurentian University) | 0 | 0 | 10 | 0 | 10 |
| Brazilian (CANMET) | 0 | 10 | 10 | 0 | 20 |
| Direct Shear (CANMET) | 0 | 3 | 5 | 0 | 8 |
| Petrophysics (k, P _e & θ) (Core Labs) | 0 | 10 | 9 | 1 | 20 |
| Diffusion (UNB & PSI) | 0 | 5 | 3 | 0 | 8 |
| Diffusion (UNB) [archive, radiography, through] | 0 | 9 | 6 | 0 | 15 |
| Diffusion (UNB) [NWMO] | 0 | 16 | 0 | 1 | 17 |
| Porewater (UNB) [NWMO] | 0 | 16 | 0 | 0 | 16 |
| Mineralogy (XRD, optical) (Act Labs) | 11 | 14 | 8 | 1 | 34 |
| Elemental Geochemistry (Act Labs) | 11 | 14 | 8 | 1 | 34 |
| Pore Structure (SEM, EDS) (Act Labs) | 11 | 14 | 8 | 1 | 34 |
| Porewater Chemistry (UOttawa)
[Major ions, trace elements, environmental isotopes, radioisotopes, gases, noble gases] | 19 | 12 | 10 | 0 | 41 |
| Porewater Chemistry (UniBern)
[Cation exchange & sorbed ion populations, major ions, water isotopes, XRD, BET + exchange isotherms] | 0 | 13 | 17 | 4 | 34 |
| Porewater Chemistry by forced advection (UniBern) | 0 | 1 | 1 | 0 | 2 |
| Noble Gases (UniBern) | 27 | 7 | 5 | 0 | 39 |
| Point Load – Axial | 81 | 48 | 36 | 0 | 165 |
| Point Load – Diametral | 80 | 39 | 34 | 0 | 153 |
| Slake Durability | 11 | 13 | 6 | 0 | 30 |
| P- and S-wave | 29 | 50 | 42 | 0 | 121 |
| Archive | 47 | 68 | 76 | 6 | 197 |
| Permeability Testing (AECL) | 0 | 1 | 0 | 0 | 1 |
| Microbiological (AECL) | 0 | 1 | 1 | 0 | 2 |
| US Geological Survey | 0 | 1 | 0 | 0 | 1 |
| OGS Miscellaneous | 0 | 0 | 0 | 1 | 1 |
| TOTALS | 332 | 392 | 318 | 16 | 1058 |

A more detailed description of the samples, their purpose and the analytical results is included for each group of samples in their respective Technical Reports.

4.4 Core Preservation

Core samples were preserved in accordance with the procedures of Test Plan TP-06-10. All core samples that were shipped offsite for analyses or placed in archive were preserved by placing the core sub-sample in a polyethylene (PE) bag, flushing with nitrogen, vacuum sealing the PE bags, and vacuum sealing in aluminum-PE-nylon bags. All efforts were made to begin breaking, photographing and preserving of core within 15 minutes of core retrieval and to complete these steps within 30 minutes of core retrieval from the borehole. If a large number of samples were targeted within a single core run, the priority for preservation of samples was given to those samples for geochemical testing and tests that were more sensitive to in-situ conditions.

Preserved cores were weighed following preservation and placed in coolers with ice packs prior to shipping. Archive samples were transferred to temperature controlled refrigerators on the Bruce Site at the Core Storage Facility (CSF).

4.5 Core Storage

Following photographing, logging and sampling of core, the remaining core was placed in 1.5m (5ft) long wooden boxes with a core length capacity of 3.05 m (10 ft). (i.e., one core run). Cores longer than 1.5 m length were broken with a hammer and chisel to fit into a core box.

In each core box, the top of the core was placed in the top left corner of the core box and the bottom of the core was placed in the bottom right corner of the core box. Labelled wooden inserts were added to each core box to replace core removed for preservation and testing. The wooden inserts identified the core sample name as described in Section 4.3 and the length of the sample.

Core boxes were labelled on the top of the lid and on the top end of the core box with borehole ID, date, core run number, MNR drilling license number, depth interval, and Intera project number. Each core box was photographed, with the labelled core box cover displaying the core run information listed above, and then transported to the Core Storage Facility (CSF) where all core boxes are stored sequentially on shelving units for long term storage and easy accessibility.

5 Data Quality and Use

The drilling, core photography, core logging and core sampling programs presented in this Technical Report are based on standard techniques used in similar worldwide comprehensive deep drilling and testing programs, and the general requirements of the DGR Project Quality Plan and TP-06-09. These drilling and sample processing programs have been developed specifically for the OPG DGR GSCP with insight from various other radioactive waste disposal site characterization programs such as those of NAGRA (Switzerland) and ANDRA (France).

There are no identifiable restrictions on the use of data included in this Technical Report. Consequently, the results presented in this Technical Report are suitable for assessing the bedrock conditions in DGR-1 and DGR-2, for the development of future subsurface investigation programs, and for providing the framework for development of Phase 1 descriptive geosphere models of the Bruce DGR site.

6 References

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Intera Engineering Ltd., 2010. Technical Report: Opportunistic Groundwater Sampling in DGR-1 and DGR-2, TR-07-11, Revision 2, May 19, Ottawa.

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Intera Engineering Ltd., 2009b. Technical Report: Bedrock Formations in DGR-1, DGR-2, DGR-3 and DGR-4, TR-08-12, Revision 1, March 25, Ottawa.

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Intera Engineering Ltd., 2007a. Test Plan for DGR-1 & DGR-2 Drilling and Casing Installation, TP-06-07, Revision 1, January 29, Ottawa.

Intera Engineering Ltd., 2007b. Test Plan for DGR-1 & DGR-2 Core Sampling and Distribution for Laboratory Testing, TP-06-10, Revision 4, May 14, Ottawa.

Intera Engineering Ltd., 2007c. Test Plan for Core Photography and Logging, TP-06-09, Revision 2, January 29, Ottawa.

Intera Engineering Ltd., 2007d. Test Plan for Field Geomechanical Testing of DGR-1 & DGR-2 Core, TP-06-13, Revision 1, January 29, Ottawa.

Intera Engineering Ltd., 2006. Geoscientific Site Characterization Plan, OPG's Deep Geologic Repository for Low and Intermediate Level Waste, Report INTERA 05-220-1, OPG 00216-REP-03902-00002-R00, April, Ottawa.

ISRM, International Society for Rock Mechanics, Commission on Standardization of Laboratory and Field Tests, Committee on Field Tests, Document No. 4, Suggested Methods for the Quantitative Description of Discontinuities in Rock Masses. Publ. 1978. Int. J. Rock Mech. Min. Sci. and Geomech. Abstr. Vol. 15, pp 319-368

APPENDIX A

MNR Well Licenses for DGR-1 and DGR-2

Ministry of Natural Resources



Ministère des Richesses naturelles

Well Licence 11582

Under the Oil, Gas and Salt Resources Act and subject to the limitations thereof and in accordance with the approved well licence application this licence is issued to:

Ontario Power Generation

of , Toronto, Ontario,
for the well described as follows:

Name of Well: **DGR-1, Bruce 4 - 20 - LR**

Tract: **4** Lot **20**

Concession: **Lake Range**

Geographic Township: **Bruce**

Offshore Block: Offshore Tract:

Surface Co-ordinates: **8.55m S** **947.70m W**

NAD 83 **44° 19' 17.810" N** **81° 34' 25.929" W**
Surface Latitude Surface Longitude

44° 19' 17.810" N **81° 34' 25.929" W**
Bottom-hole Latitude Bottom-hole Longitude

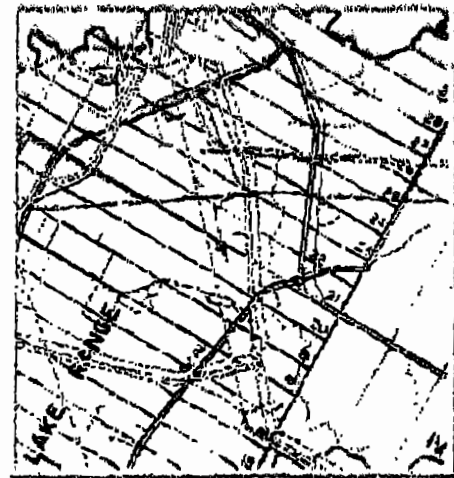
Well Type: **Stratigraphic Test**

Formation at TD: **Queenston**

Licence Depth: **450.00** metres (measured)

Target/Classification: **ORD/STR**

Spacing/Unit Name:



Location and Spacing/Unit Area

Issued at The City of London on: **Tuesday, November 14, 2006**

by: **Andrew Hewitt**

On behalf of the Minister

This information appearing on this licence is accurate as of: **Tuesday, November 14, 2006**

Every effort has been made to include information on this licence that is accurate as of the date shown. Please report any inaccuracies to or contact the Petroleum Resources Centre for current licence information.

Petroleum Resources Centre, 659 Exeter Road, London, Ontario N6E 1L3 Phone: (519) 873-4633; Fax: (519) 873-4645

Ministry of Natural Resources



Ministère des Richesses naturelles

Well Licence 11583

Under the Oil, Gas and Salt Resources Act and subject to the limitations thereof and in accordance with the approved well licence application this licence is issued to:

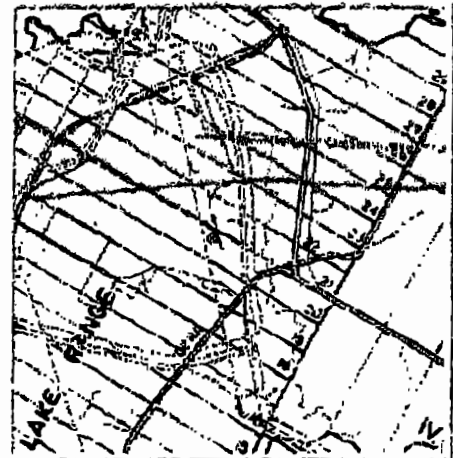
Ontario Power Generation

of , Toronto, Ontario,
for the well described as follows:

Name of Well: **DGR-2, Bruce 4 - 20 - LR**
Tract: **4** Lot: **20**
Concession: **Lake Range**
Geographic Township: **Bruce**

Offshore Block: Offshore Tract:

| | |
|---------------------------------------|--------------------------|
| Surface Co-ordinates: 54.50m S | 959.00m W |
| NAD 83 44° 19' 16.665" N | 81° 34' 27.331" W |
| Surface Latitude | Surface Longitude |
| 44° 19' 16.665" N | 81° 34' 27.331" W |
| Bottom-hole Latitude | Bottom-hole Longitude |



Location and Spacing/Unit Area

Well Type: **Stratigraphic Test**
Formation at TD: **Precambrian**
Licence Depth: **860.00** metres (measured)
Target/Classification: **ORD/STR**
Spacing/Unit Name:

Issued at The City of London on: **Tuesday, November 14, 2006**

by: **Andrew Hewitt**

On behalf of the Minister

This information appearing on this licence is accurate as of: **Tuesday, November 14, 2006**

Every effort has been made to include information on this licence that is accurate as of the date shown. Please report any inaccuracies to or contact the Petroleum Resources Centre for current licence information.

Petroleum Resources Centre, 659 Exeter Road, London, Ontario N6E 1L3 Phone: (519) 873-4633; Fax: (519) 873-4645

APPENDIX B

Well Examiner Reports for Casing Installations at DGR-1 and DGR-2

Class 1 EXAMINER REPORT (Well Drilling & Plugging, Casing and Cementing)

99/10/20

| | | | | | | | | | | | |
|---|--|---------------------------|---------------------|--------------------|--------------|--|---------------------------|----------------|--|--------------|--|
| Date of Examination (yyyy/mm/dd): | | 2006/12/20 | | | | | | | | | |
| Name of Well Examined: | | | DGR-1 Bruce 4-20-LR | | | Well Licence Number: | | 11582 | | | |
| Operator Name: | | Ontario Power Generation | | | | | | | | | |
| Location of Well: | | Lot: | | Concession: | | Township: | | County: | | | |
| | | 20 | | LR | | Bruce | | Bruce | | | |
| Examiners Name: | | | Kathy McConnell | | | Examiner's Certificate No.: | | E005-0407-1234 | | | |
| Note: Examiners shall submit this report to the Ministry and the Operator within 10 days of conducting an examination. | | | | | | | | | | | |
| MNR Use | | Report audited by: | | | Date: | | Site Inspected by: | | | Date: | |
| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail | Explanation of Failure or Problem and Comments. | | | | | |
| 3.6 | Used Casing | | | | | | | | | | |
| 3.6(a) | History record of used casing. | | | | | | | | | | |
| 3.6(b) | Threads on pipe and inside collars. | | | | | | | | | | |
| 3.6(c) | Power tong damage, oval distortion. | | | | | | | | | | |
| 3.6(d) | Casing wall thickness: Surface | | | | | | | | | | |
| 3.6(d) | Casing wall thickness: Intermediate casing | | | | | | | | | | |
| 3.6(d) | Casing wall thickness: Production casing | | | | | | | | | | |
| 3.6(e) | 110% Hydrostatic Pressure Test. | | | | | | | | | | |
| 3.6(f) | Age of casing less than 20 yrs. | | | | | | | | | | |
| | Other (explain) | | | | | | | | | | |
| | | | | | | | | | | | |
| 3.9.2 | Casing Cement Quality | | | | | | | | | | |
| 3.9.2(a) | Cement meets API Spec 10. | X | | X | | | | | | | |
| 3.9.2(b) | Witness actual cementing and results. | | X | | | | | | | | |
| 3.9.2(c) | Proper API: Grade | X | | X | | | | | | | |
| | Proper API: Cement mixture and pumping. | X | | X | | | | | | | |
| | Other (explain) | | | | | | | | | | |
| | | | | | | | | | | | |
| 3.12.3 | Porous Zone Isolation | | | | | | | | | | |
| 3.12.3(a) | Porous zone identification. | X | | X | | | | | | | |
| 3.12.3(b) | Adequate cement to separate zones. | X | | X | | | | | | | |
| 3.12.3(c) | Cement top 25 metres above 1st of 2 porous zones | | | | | | | | | | |
| | behind same csg | | | | | Not Applicable | | | | | |
| 3.12.3(d) | ID cement top where no returns | | | | | Not Applicable -had cement returns | | | | | |
| | Other (explain) | | | | | | | | | | |

Well Licence No.: 11582 Well Name: DGR-2 Bruce 4-20-LR

Date of Examination: 2006/12/20

| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail | Explanation of Failure or Problem and Comments. |
|----------------|--|-----|----|------|------|---|
| 3.12.21 | Cementing | | | | | |
| 3.12.21 | Csg cement > 25 metres above previous csg seat. | | | | | Not Applicable |
| 3.12.21 | Csg cement > 100 metres above highest pay zone | | | | | Not Applicable |
| 3.12.21(a) | Corrosive zones covered by csg cement. | | | | | Not Applicable |
| 3.12.21(b) | Liners cemented full length. | | | | | Not applicable |
| 3.12.21(c) | Disposal, injection well csqs cemented full length. | | | | | Not applicable |
| 3.12.21(d) | Production csg cemented full length for Lake Erie wells. | | | | | Not applicable |
| | Other (explain) | | | | | |
| 11.0 | Well Plugging | | | | | |
| 11.7(a) | Plug at top of oil or gas, storage or salt cavern located. | | | | | |
| 11.7(b) | Top most plug located. | | | | | |
| 11.7(c) | Plug(s) set across lost circulation zone(s) located. | | | | | |
| | Other (explain) | | | | | |
| | | | | | | |
| 11.14 | Well Site Rehabilitation | | | | | |
| 11.14 | Site returned to original condition within 12 mos of plugging. | | | | | |
| 11.14 | Unused equipment and debris cleared, site clean. | | | | | |
| | Other (explain) | | | | | |

Other Comments and Observations:

| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

I certify that the above indicated examinations were conducted and that the results, comments and observations regarding the examinations noted are accurate.

Signature _____ Date _____

Class 1 EXAMINER REPORT (Well Drilling & Plugging, Casing and Cementing)

99/10/20

| | | | | | |
|---|--|-------------------------------------|-----------------------------------|------------------------|--|
| Date of Examination (yyyy/m/dd): 2007/03/17 | | | | | |
| Name of Well Examined: DGR- 1 Bruce 4-20-LR | | | Well Licence Number: 11582 | | |
| Operator Name: Ontario Power Generation | | | | | |
| Location of Well: Lot: 20 | | Concession: Lake Range | | Township: Bruce | |
| County: Bruce | | Examiners Name: Peter Miller | | | |
| | | E058/04-07/12 | | | |
| <small>NOTE: Examiners shall submit this report to the Ministry and the operator within 10 days of conducting an examination.</small> | | | | | |
| MNR Use | Report audited by: | Date: | Site Inspected by: | | Date |
| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail |
| 3.6 | Used Casing | | | | |
| 3.6(a) | History record of used casing. | | | | |
| 3.6(b) | Threads on pipe and inside collars. | | | | |
| 3.6(c) | Power tong damage, oval distortion. | | | | |
| 3.6(d) | Casing wall thickness: Surface | | | | |
| 3.6(d) | Casing wall thickness: Intermediate casing | | | | |
| 3.6(d) | Casing wall thickness: Production casing | | | | |
| 3.6(e) | 110% Hydrostatic Pressure Test. | | | | |
| 3.6(f) | Age of casing less than 20 yrs. | | | | |
| | Other (explain) | | | | |
| 3.9.2 | Casing Cement Quality | | | | |
| 3.9.2(a) | Cement meets API Spec 10. | X | X | | 6 tonnes of RFC Lite cement+ .2% D046 |
| 3.9.2(b) | Witness actual cementing and results. | X | X | | |
| 3.9.2(c) | Proper API: Grade | X | X | | |
| | Proper API: Cement mixture and pumping. | X | X | | |
| | Other (explain) | | | | |
| 3.12.3 | Porous Zone Isolation | | | | |
| 3.12.3(a) | Porous zone identification. | X | X | | lost circulation zone at 140 m |
| 3.12.3(b) | Adequate cement to separate zones. | X | X | | adequate volume pumped- annular volume 3.8 m3- pump 7.8 m3 |
| 3.12.3(c) | Cement top 25 meters above 1st of 2 porous zones behind same csg | | | | |
| 3.12.3(d) | ID cement top where no returns. | X | | X | no cement in lines |
| | Other (explain) | | | | |
| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail |
| 3.12.21 | Cementing | | | | |
| 3.12.21 | Csg cement ≥ 25 meters above previous csg seat. | X | | X | no cement at surface |
| 3.12.21 | Csg cement ≥ 100 meters above highest pay zone. | | | | |
| 3.12.21(a) | Corrosive zones covered by csg cement. | | | | |
| 3.12.21(b) | Liners cemented full length. | X | | X | no cement at surface |
| 3.12.21(c) | Disposal, injection well csqs cemented full length. | | | | |
| 3.12.21(d) | Production csg cemented full length for Lake Erie wells. | | | | |
| | Other (explain) | | | | |
| 11.0 | Well Plugging | | | | |
| 11.7(a) | Plug at top of oil or gas, storage or salt cavern located. | | | | |
| 11.7(b) | Top most plug located. | | | | |
| 11.7(c) | Plug(s) set across lost circulation zone(s) located. | | | | |
| | Other (explain) | | | | |
| 11.14 | Well Site Rehabilitation | | | | |
| 11.14 | Site returned to original condition within 12 mos of plugging. | | | | |
| 11.14 | Unused equipment and debris cleared, site clean. | | | | |
| | Other (explain) | | | | |

Other Comments and Observations:

The final treating pressure of 1420 kpa indicates the annular space has been filled. A cement bond log will have to run to determine the exact cement top.

Total cement pumped approximately two times annular volume.

I certify that the above indicated examinations were conducted and that the results, comments and observations regarding the examinations noted are accurate.

Signature

Date: March 17, 2007

Class 1 EXAMINER REPORT (Well Drilling & Plugging, Casing and Cementing)

99/10/20

| Date of Examination (yyyy/mm/dd): | | 2006/12/14 | | | | | |
|---|--|---------------------------|-----------|------------------------------------|-----------------------------|---|------------------------------------|
| Name of Well Examined: | | DGR-2 Bruce 4-20-LR | | | Well Licence Number: | | 11583 |
| Operator Name: | | Ontario Power Generation | | | | | |
| Location of Well: | Lot: | Concession: | LR | Township: | Bruce | County: | Bruce |
| Examiners Name: | | Kathy McConnell | | Examiner's Certificate No.: | | E005-0407-1234 | |
| Note: Examiners shall submit this report to the Ministry and the Operator within 10 days of conducting an examination. | | | | | | | |
| MNR Use | | Report audited by: | | Date: | | Site Inspected by: | |
| Date: | | Date: | | Date: | | Date: | |
| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail | Explanation of Failure or Problem and Comments. | |
| 3.6 | Used Casing | | | | | | |
| 3.6(a) | History record of used casing. | | | | | | |
| 3.6(b) | Threads on pipe and inside collars. | | | | | | |
| 3.6(c) | Power tong damage, oval distortion. | | | | | | |
| 3.6(d) | Casing wall thickness: Surface | | | | | | |
| 3.6(d) | Casing wall thickness: Intermediate casing | | | | | | |
| 3.6(d) | Casing wall thickness: Production casing | | | | | | |
| 3.6(e) | 110% Hydrostatic Pressure Test. | | | | | | |
| 3.6(f) | Age of casing less than 20 yrs. | | | | | | |
| | Other (explain) | | | | | | |
| 3.9.2 | Casing Cement Quality | | | | | | |
| 3.9.2(a) | Cement meets API Spec 10. | X | | X | | | |
| 3.9.2(b) | Witness actual cementing and results. | | X | | | | |
| 3.9.2(c) | Proper API: Grade | X | | X | | | |
| | Proper API: Cement mixture and pumping. | X | | X | | | |
| | Other (explain) | | | | | | |
| 3.12.3 | Porous Zone Isolation | | | | | | |
| 3.12.3(a) | Porous zone identification. | X | | X | | | |
| 3.12.3(b) | Adequate cement to separate zones. | X | | X | | | |
| 3.12.3(c) | Cement top 25 metres above 1st of 2 porous zones | | | | | | |
| | behind same csg | | | | | | Not Applicable |
| 3.12.3(d) | ID cement top where no returns | | | | | | Not Applicable -had cement returns |
| | Other (explain) | | | | | | |

Well Licence No.: 11583 Well Name: DGR-2 Bruce 4-20-LR

Date of Examination: 2006/12/14

| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail | Explanation of Failure or Problem and Comments. |
|----------------|--|-----|----|------|------|---|
| 3.12.21 | Cementing | | | | | |
| 3.12.21 | Csg cement > 25 metres above previous csg seat. | | | | | Not Applicable |
| 3.12.21 | Csg cement > 100 metres above highest pay zone | | | | | Not Applicable |
| 3.12.21(a) | Corrosive zones covered by csg cement. | | | | | Not Applicable |
| 3.12.21(b) | Liners cemented full length. | | | | | Not applicable |
| 3.12.21(c) | Disposal, injection well csqs cemented full length. | | | | | Not applicable |
| 3.12.21(d) | Production csg cemented full length for Lake Erie wells. | | | | | Not applicable |
| | Other (explain) | | | | | |
| 11.0 | Well Plugging | | | | | |
| 11.7(a) | Plug at top of oil or gas, storage or salt cavern located. | | | | | |
| 11.7(b) | Top most plug located. | | | | | |
| 11.7(c) | Plug(s) set across lost circulation zone(s) located. | | | | | |
| | Other (explain) | | | | | |
| 11.14 | Well Site Rehabilitation | | | | | |
| 11.14 | Site returned to original condition within 12 mos of plugging. | | | | | |
| 11.14 | Unused equipment and debris cleared, site clean. | | | | | |
| | Other (explain) | | | | | |

Other Comments and Observations:

| |
|--|
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| |

I certify that the above indicated examinations were conducted and that the results, comments and observations regarding the examinations noted are accurate.

Signature _____ Date _____

Class 1 EXAMINER REPORT (Well Drilling & Plugging, Casing and Cementing)

99/10/20

| | | | | | |
|---|--|---|-----------------------------------|------------------------|--|
| Date of Examination (yyyy/m/dd): 2007/04/28 | | | | | |
| Name of Well Examined: DGR- 2, Bruce 4-20-LR | | | Well Licence Number: 11583 | | |
| Operator Name: Ontario Power Generation | | | | | |
| Location of Well: Lot: 20 | | Concession: Lake Range | | Township: Bruce | |
| County: Bruce | | Examiners Name: Peter Miller E058/04-07/12 | | | |
| <small>NOTE: Examiners shall submit this report to the Ministry and the operator within 10 days of conducting an examination.</small> | | | | | |
| MNR Use | Report audited by: | Date: | Site Inspected by: | | Date |
| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail |
| 3.6 | Used Casing | | | | |
| 3.6(a) | History record of used casing. | | | | |
| 3.6(b) | Threads on pipe and inside collars. | | | | |
| 3.6(c) | Power tong damage, oval distortion. | | | | |
| 3.6(d) | Casing wall thickness: Surface | | | | |
| 3.6(d) | Casing wall thickness: Intermediate casing | | | | |
| 3.6(d) | Casing wall thickness: Production casing | | | | |
| 3.6(e) | 110% Hydrostatic Pressure Test. | | | | |
| 3.6(f) | Age of casing less than 20 yrs. | | | | |
| | Other (explain) | | | | |
| 3.9.2 | Casing Cement Quality | | | | |
| 3.9.2(a) | Cement meets API Spec 10. | X | X | | 24 tonnes of Class G-neat cement with B 137-Cemnet(lost circ material) |
| 3.9.2(b) | Witness actual cementing and results. | X | X | | |
| 3.9.2(c) | Proper API: Grade | X | X | | |
| | Proper API: Cement mixture and pumping. | X | X | | |
| | Other (explain) | | | | |
| 3.12.3 | Porous Zone Isolation | | | | |
| 3.12.3(a) | Porous zone identification. | X | X | | lost circulation zone at 140 m |
| 3.12.3(b) | Adequate cement to separate zones. | X | | X | unknown-no cement returns to surface |
| 3.12.3(c) | Cement top 25 meters above 1st of 2 porous zones behind same csg | | X | | Not applicable |
| 3.12.3(d) | ID cement top where no returns. | X | | X | cement bond log will need to be run |
| | Other (explain) | | | | |
| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail |
| 3.12.21 | Cementing | | | | |
| 3.12.21 | Csg cement ≥ 25 meters above previous csg seat. | x | | x | no returns to surface |
| 3.12.21 | Csg cement ≥ 100 meters above highest pay zone. | | x | | Not applicable |
| 3.12.21(a) | Corrosive zones covered by csg cement. | | x | | Not applicable |
| 3.12.21(b) | Liners cemented full length. | | x | | Not applicable |
| 3.12.21(c) | Disposal, injection well csqs cemented full length. | | x | | Not applicable |
| 3.12.21(d) | Production csg cemented full length for Lake Erie wells. | | x | | Not applicable |
| | Other (explain) | | | | |
| 11.0 | Well Plugging | | | | |
| 11.7(a) | Plug at top of oil or gas, storage or salt cavern located. | | | | |
| 11.7(b) | Top most plug located. | | | | |
| 11.7(c) | Plug(s) set across lost circulation zone(s) located. | | | | |
| | Other (explain) | | | | |
| 11.14 | Well Site Rehabilitation | | | | |
| 11.14 | Site returned to original condition within 12 mos of plugging. | | | | |
| 11.14 | Unused equipment and debris cleared, site clean. | | | | |
| | Other (explain) | | | | |

Other Comments and Observations:

cemnet job for 340 mm casing set at 189 m

pump 24 tonnes of Class G neat cement with lost circulation material

Circulation maintained through out job-No cement returns to surface

I certify that the above indicated examinations were conducted and that the results, comments and observations regarding the examinations noted are accurate.

Signature
Date: April 28, 2007

Class 1 EXAMINER REPORT (Well Drilling & Plugging, Casing and Cementing)

99/10/20

| | | | | | |
|---|--|---|-----------------------------------|------------------------|--|
| Date of Examination (yyyy/m/dd): 2007/05/24 | | | | | |
| Name of Well Examined: DGR- 2, Bruce 4-20-LR | | | Well Licence Number: 11583 | | |
| Operator Name: Ontario Power Generation | | | | | |
| Location of Well: Lot: 20 | | Concession: Lake Range | | Township: Bruce | |
| County: Bruce | | Examiners Name: Peter Miller E058/04-07/12 | | | |
| <small>NOTE: Examiners shall submit this report to the Ministry and the operator within 10 days of conducting an examination.</small> | | | | | |
| MNR Use | Report audited by: | Date: | Site Inspected by: | | Date |
| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail |
| | | | | | Explanation of Failure or Problem and Comments. |
| 3.6 | Used Casing | | | | |
| 3.6(a) | History record of used casing. | | | | |
| 3.6(b) | Threads on pipe and inside collars. | | | | |
| 3.6(c) | Power tong damage, oval distortion. | | | | |
| 3.6(d) | Casing wall thickness: Surface | | | | |
| 3.6(d) | Casing wall thickness: Intermediate casing | | | | |
| 3.6(d) | Casing wall thickness: Production casing | | | | |
| 3.6(e) | 110% Hydrostatic Pressure Test. | | | | |
| 3.6(f) | Age of casing less than 20 yrs. | | | | |
| | Other (explain) | | | | |
| 3.9.2 | Casing Cement Quality | | | | |
| 3.9.2(a) | Cement meets API Spec 10. | X | X | | Class G neat cement |
| 3.9.2(b) | Witness actual cementing and results. | X | X | | cement to surface |
| 3.9.2(c) | Proper API: Grade | X | X | | |
| | Proper API: Cement mixture and pumping. | X | X | | |
| | Other (explain) | | | | |
| 3.12.3 | Porous Zone Isolation | | | | |
| 3.12.3(a) | Porous zone identification. | x | x | | no lost circulation zones |
| 3.12.3(b) | Adequate cement to separate zones. | x | x | | cement to surface |
| 3.12.3(c) | Cement top 25 meters above 1st of 2 porous zones behind same csg | | | | |
| 3.12.3(d) | ID cement top where no returns. | | x | | cement to surface |
| | Other (explain) | | | | |
| Std. Ref. | ITEMS EXAMINED | Yes | No | Pass | Fail |
| | | | | | Explanation of Failure or Problem and Comments. |
| 3.12.21 | Cementing | | | | |
| 3.12.21 | Csg cement ≥ 25 meters above previous csg seat. | x | x | | cement to surface |
| 3.12.21 | Csg cement ≥ 100 meters above highest pay zone. | | | | |
| 3.12.21(a) | Corrosive zones covered by csg cement. | | | | |
| 3.12.21(b) | Liners cemented full length. | | | | |
| 3.12.21(c) | Disposal, injection well csgs cemented full length. | | | | |
| 3.12.21(d) | Production csg cemented full length for Lake Erie wells. | | | | |
| | Other (explain) | | | | |
| 11.0 | Well Plugging | | | | |
| 11.7(a) | Plug at top of oil or gas, storage or salt cavern located. | | | | |
| 11.7(b) | Top most plug located. | | | | |
| 11.7(c) | Plug(s) set across lost circulation zone(s) located. | | | | |
| | Other (explain) | | | | |
| 11.14 | Well Site Rehabilitation | | | | |
| 11.14 | Site returned to original condition within 12 mos of plugging. | | | | |
| 11.14 | Unused equipment and debris cleared, site clean. | | | | |
| | Other (explain) | | | | |

Other Comments and Observations:

cement job for 245 mm casing set at 452 m

Pump 24 tonnes of Class "G" "neat" cement. Annular volume plus 30%

cement circulated to surface: .75 m3 of good cement returns

I certify that the above indicated examinations were conducted and that the results, comments and observations regarding the examinations noted are accurate.

Signature
Date: May 23, 2007

APPENDIX C

DGR-1 Borehole Log

DGR-1 Borehole Log Legend

| <u>Sample Legend</u> | <u>Contact Legend</u> | <u>Core Log Legend</u> |
|--|--|--|
| AR Archive - INTERA | Casing | mBGS Meters Below Ground Surface |
| DF-UNB Diffusion Testing - UNB | End of Borehole | mASL Meters Above Sea Level |
| GM-CAN Geomechanical Testing - CANMET | Formation Contact | R. Q. D. Rock Quality Designation |
| GM-PL Geomechanical Point load Testing - INTERA | Ground Surface | Nat. Frac. Freq. Natural Fracture Frequency |
| GM-PS Geomechanical P&S Testing - INTERA | Stratigraphic Contact | NC Rotary Drilled (No Core) |
| GM-SL Geomechanical Slake Durability - INTERA | | CR Core Run |
| MSC Miscellaneous Core Samples | | |
| MN Mineralogy - Actlabs | | |
| NG-UB Noble gases - Unibern | | |
| NG-UO Noble Gases - U of O | | |
| PW-UO Pore Water - U of O | | |
| | <u>Stratigraphic Legend</u> | |
| Gravel | Dolomitic Shale | |
| Till | Brecciated Dolostone | |
| Dolostone | Brecciated Argillaceous Dolostone | |
| Anhydritic Dolostone | Brecciated Dolomitic Shale | |
| Argillaceous Dolostone | Argillaceous Dolostone and Dolomitic Shale | |
| Cherty Dolostone | Interbedded Shale and Carbonate Beds | |
| Dolomitic Limestone | Interbedded Shale and Dolostone | |
| Shale | Anhydrite | |

Core Logging Notation

1) Colour: (i.e. light/medium/dark grey, blue-grey, red-green, etc.)

| Additional Adjectives | Description |
|-----------------------|--|
| Banded | Approximately parallel bands of varying colour |
| Streaked | Randomly oriented streaks of colour |
| Blotched | Large irregular patches of colour (>75mm diameter) |
| Mottled | Irregular patches of colour |
| Speckled | Very small patches of colour (<10 mm diameter) |
| Stained | Local colour variations associated with other features (i.e. bedding joints, etc.) |

2) Grain Size/Texture:

| Classification | Grain Size Measurement | Field Recognition | Equivalent Soil Type |
|---------------------|------------------------|---|----------------------|
| Very fine-grained | <0.06 mm | Individual grains cannot be seen with a hand lens | Clays and silts |
| Fine-grained | 0.06 to 0.25 mm | Just visible as individual grains under hand lens | Fine sand |
| Medium-grained | 0.25 to 0.5 mm | Grains clearly visible under hand lens; just visible to naked eye | Medium sand |
| Coarse-grained | 0.5 to 2.0 mm | Grains clearly visible to the naked eye | Coarse sand |
| Very coarse grained | >2.0 mm | Gains measurable | gravel |

3) Rock Hardness

| Classification | Description |
|----------------|---|
| Very Soft | Can be peeled with a knife |
| Soft | Can be easily gouged or carved with a knife |
| Medium soft | Can be readily scratched with a knife blade; scratch leaves heavy trace of dust and is readily visible after powder blown away. |
| Hard | Can be scratched with a knife with difficulty; scratch produces little powder and is often faintly visible |
| Very Hard | Cannot be scratched with a knife or can barely be scratched with a knife |

4) Bedding Thickness:

| Classification | Bedding Thickness |
|----------------|-------------------|
| Massive Bedded | >3 m or Uniform |
| Thickly Bedded | 300 mm to 3 m |
| Medium Bedded | 100 to 300 mm |
| Thinly Bedded | 10 to 100 mm |
| Laminated | <10 mm |

5) Solution and Void Conditions (if notable)

| Classification | Condition |
|----------------|-------------------------------------|
| Solid | No voids |
| Porous | Voids <1.0 mm in diameter |
| Pitted | Voids 1 to 6 mm in diameter |
| Vuggy | Voids 6 mm to diameter of core |
| Cavity | Voids greater than diameter of core |

6) Quantification of Secondary Features: When describing additional features in the core, the following adjectives should be used which are related to the % volume or frequency of the feature.

| Adjective | %Volume / frequency |
|---------------------------------|------------------------|
| Slightly/trace | 1-10%, 1-2 occurrences |
| Moderately/some | 10-20% |
| abundantly/ “___y” (ie. shaley) | 20-35% |
| and | >35%, half and half |

7) Summary of Rock Quality Descriptions and Discontinuity Logging

| RQD (%) | Core Quality Description | Natural Fracture Frequency (/m) | Formation Fracture Description |
|---------|--------------------------|---------------------------------|--------------------------------|
| 0-25 | Very Poor | >10 | Highly Fractured |
| 25-50 | Poor | >1.0-10 | Moderately Fractured |
| 50-75 | Fair | 0.5-1.0 | Sparsely Fractured |
| 75-90 | Good | <0.5 | Very Sparsely Fractured |
| 90-100 | Excellent | 0 | Unfractured |

8) Bedding or Fracture Inclination (measured from horizontal)

| Classification | Attitude |
|----------------------|------------------|
| Flat | 0 to 5 degrees |
| Gently dipping | 5 to 20 degrees |
| Moderately dipping | 20 to 45 degrees |
| Steeply dipping | 45 to 85 degrees |
| Very steeply dipping | 85 to 90 degrees |

9) Degree of Fracturing/Jointing (Structure)

| Rock Mass Classification | Discontinuity Spacing |
|--------------------------|-----------------------|
| Solid | >3 m |
| Massive | 1 to 3 m |
| Blocky/seamy | 0.3 to 1 m |
| fractured | 5 to 30 cm |
| Crushed / shattered | < 5 cm |

10) Roughness of Fracture (Structure)

| Classification | Description |
|----------------|--|
| Smooth | Appears smooth and is essentially smooth to the touch. |
| Rough | Bumps/roughness on the fracture surfaces are visible and can be distinctly felt. |
| Slickensided | Clear evidence of previous shear displacement along the discontinuity. |
| Stepped | Surface of discontinuity appears stepped with some ridges or angular “steps”. |
| Undulating | Surface of discontinuity appears wavy, with no sharp steps. |
| Planar | Surface of discontinuity appears flat. |

11) Infilling of Fracture (Structure)

| Classification | Description |
|----------------|---|
| Clean | No filling material |
| Stained | Colouration of rock surface only, no recognizable filling material |
| Filled | Fracture observed with filling material (describe filling material) |

12)Reference Terms:

Layer : Distinct length of core that is distinguished from surrounding core by feature (colour, composition, etc.) other than bedding planes.

Irregular : Bedding plane surfaces are not planar but are convoluted/disturbed.

Planar : Bedding planes are flat.

Bituminous : Contains organic matter.

Vein : Fracture totally infilled with mineral different from surrounding rock.

Argillaceous : Rock has mud dispersed in the matrix but not as distinct laminae or beds (e.g. argillaceous limestone).

Shaley : Rock that has distinct shale laminae beds (e.g. shaley limestone).

Petroliferous Odour : Only hydrocarbon odour; no noted liquid hydrocarbons.

Petroliferous : Liquid hydrocarbons noted.

Hydrocarbon Adjectives

Strongly/heavily : intense hydrocarbon odour / core exuding significant volume of oil / core coated with oil.

Slight/lightly : Slight hydrocarbon odour / few drops of oil.

No modifier : Moderate odour / Moderate amount of hydrocarbon exuded

Rock Quality Designation (RQD, %) : RQD values determined for the 76 mm diameter core from DGR-1 and DGR-2 were determined as the sum of lengths of core greater than 15 cm length (i.e., twice the core diameter) excluding drilling-induced breaks, divided by length of hole drilled per core run.











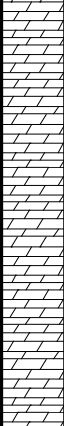
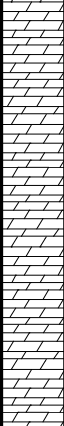
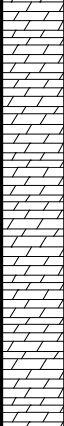
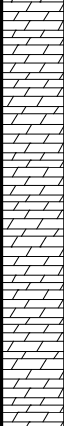
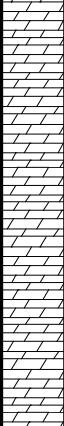
RECORD OF BOREHOLE - DGR-1



Project : DGR Site Characterization
Project Number: 06.219.30.10.10
Client: Ontario Power Generation
MNR WL No.: 11582
Site Location: Tiverton, Ontario, Canada
Coordinates: NAD83 UTM Zone 17N,
 4907753.243 N, 454239.777 E

Borehole Specs.: Outside Borehole Diameter, 159mm, Core Diameter 67-76mm
Date Started: 24-Jan-07
Date Completed: 04-APR-07
Supervisor: Ken Raven, Sean Sterling
Reference Surface Elevation: 185.709 mASL
Drill Company: Davidson Drilling Limited, Wingham, Ontario, Canada
Drill Rig: Versa-Drill (model: V2000NG, 2006)

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (MASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|-------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | |
| | <p><u>Borehole Summary</u></p> <ul style="list-style-type: none"> - A 445mm diameter borehole was drilled using mud rotary techniques with a tri-cone drill bit through overburden sediments into competent bedrock at 23.3 - A 340mm diameter steel casing was cemented to 23.3 - Triple tube coring was completed between 23.1-96.0, this type of coring has an outside borehole diameter of 159mm and a core diameter of 67mm - Double-tube coring was continued from 96.0-182.9, this type of coring has an outside borehole diameter of 159mm and a core diameter of 76mm - A 318mm diameter borehole was rotary drilled with a tricone bit and reaming equipment to 182.3 - A 245mm diameter steel casing was cemented to a depth of 182.3 - Double tube coring was completed to a final depth of 462.9, approximately 15.2 below top of the Queenston Formation | | | | | | | | 184 |
| | | | | | | | | | 185 |
| | | | | | | | | | 186 |
| | | | | | | | | | 186 |
| | <p><u>Fill</u></p> <ul style="list-style-type: none"> - Railbed gravel fill | | | | | | | | 185 |
| | | | | | | | | | 184 |
| | | | | | | | | | 183 |
| | <p><u>Till</u></p> <ul style="list-style-type: none"> - Brown clay, sand and gravel | 2.74 | | | | | | | 182 |
| | | | | | | | | | 181 |
| | <p><u>Till</u></p> <ul style="list-style-type: none"> - Grey clay, silt and gravel | 4.27 | | | | | | | 180 |
| | | | | | | | | | 179 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (MASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|---|---------------|---------|------------------|-----------------|-------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 8 | | |  | | | | | | 178 |
| 9 | | |  | | | | | | 177 |
| 10 | | |  | | | | | | 176 |
| 11 | | |  | | | | | | 175 |
| 12 | | |  | | | | | | 174 |
| 13 | | |  | | | | | | 173 |
| 14 | | |  | | | | | | 172 |
| 15 | | |  | | | | | | 171 |
| 16 | | |  | | | | | | 170 |
| 17 | | 17.68 |  | | | | | | 169 |
| 18 | Lucas Formation
- Brownish grey, fine-grained, hard, dolostone with bituminous stromatolitic laminae
- Weathered brown/greyrubby/fractured dolostone | |  | | | | | | 168 |
| 19 | | |  | | | | | | 167 |
| 20 | | 20.00 |  | | | | | | 166 |
| 20 | - competent bedrock | |  | | | | | | 165 |
| 21 | | |  | | | | | | 165 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 22 | | | | | | | | | 164 |
| 23 | Surface Casing [13 3/8 (inch) or 340 (mm)] | 23.10 | | | | | | | 163 |
| | | 23.30 | | | | | | | 162 |
| 24 | Dolostone
- Light grey/tan
- Fine-grained
- Abundant dark grey bituminous stromatolitic laminae
- Fractured | | CR-1 | | | | | | 161 |
| 25 | | | | | | | | | 160 |
| 26 | Dolostone
- Light grey
- Fine-grained
- Dark grey bituminous stromatolitic laminae
- Slightly pitted with calcite infilling | 26.15 | | | | | | | 159 |
| 27 | | | CR-2 | | | | | DGR1-027.30-GM-CAN | 158 |
| 28 | | | | | | | | DGR1-028.22-NG-UB | 157 |
| 29 | | 29.20 | | | | | | DGR1-029.38-GM-CAN | 156 |
| 30 | Dolostone
- Light grey/tan
- Fine-grained, slightly to moderately pitted
- Bioclastic floatstone bed at 30.4-30.8
- Vuggy zone at 31.9-32.2 with pyrite | | | | | | | DGR1-029.65-GM-PL | 156 |
| | | 30.40 | | | | | | DGR1-030.30-GM-PL | 155 |
| 31 | Amherstburg Formation
- Brown/grey fine to medium-grained fossiliferous dolostone
- Cherty with depth | | CR-3 | | | | | | 155 |
| 32 | | | | | | | | | 154 |
| 33 | Dolostone
- Light grey/brown, mottled, strolitic
- Slightly to moderately pitted
- Abundant clasts
- Abundantly fossiliferous (boundstone) | 32.25 | | | | | | | 153 |
| 34 | | | CR-4 | | | | | DGR1-033.92-GM-PL | 152 |
| | | | | | | | | DGR1-034.01-GM-PL | 151 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |











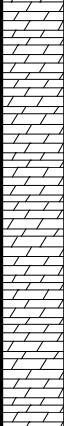
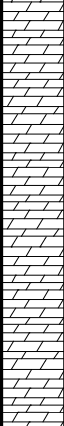
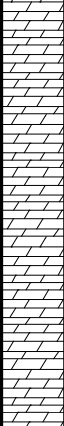
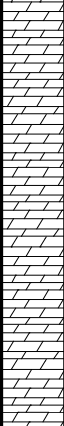
RECORD OF BOREHOLE - DGR-1



Project : DGR Site Characterization
Project Number: 06.219.30.10.10
Client: Ontario Power Generation
MNR WL No.: 11582
Site Location: Tiverton, Ontario, Canada
Coordinates: NAD83 UTM Zone 17N,
 4907753.243 N, 454239.777 E

Borehole Specs.: Outside Borehole Diameter, 159mm, Core Diameter 67-76mm
Date Started: 24-Jan-07
Date Completed: 04-APR-07
Supervisor: Ken Raven, Sean Sterling
Reference Surface Elevation: 185.709 mASL
Drill Company: Davidson Drilling Limited, Wingham, Ontario, Canada
Drill Rig: Versa-Drill (model: V2000NG, 2006)

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (MASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|-------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | |
| | <p><u>Borehole Summary</u></p> <ul style="list-style-type: none"> - A 445mm diameter borehole was drilled using mud rotary techniques with a tri-cone drill bit through overburden sediments into competent bedrock at 23.3 - A 340mm diameter steel casing was cemented to 23.3 - Triple tube coring was completed between 23.1-96.0, this type of coring has an outside borehole diameter of 159mm and a core diameter of 67mm - Double-tube coring was continued from 96.0-182.9, this type of coring has an outside borehole diameter of 159mm and a core diameter of 76mm - A 318mm diameter borehole was rotary drilled with a tricone bit and reaming equipment to 182.3 - A 245mm diameter steel casing was cemented to a depth of 182.3 - Double tube coring was completed to a final depth of 462.9, approximately 15.2 below top of the Queenston Formation | | | | | | | | 184 |
| -3 | | | | | | | | | 185 |
| -2 | | | | | | | | | 186 |
| -1 | | | | | | | | | 186 |
| 0 | <p><u>Fill</u></p> <ul style="list-style-type: none"> - Railbed gravel fill | | | | | | | | 185 |
| 1 | | | | | | | | | 184 |
| 2 | | 2.74 | | | | | | | 183 |
| 3 | <p><u>Till</u></p> <ul style="list-style-type: none"> - Brown clay, sand and gravel | | | | | | | | 182 |
| 4 | | 4.27 | | | | | | | 181 |
| 5 | <p><u>Till</u></p> <ul style="list-style-type: none"> - Grey clay, silt and gravel | | | | | | | | 180 |
| 6 | | | | | | | | | 179 |
| 7 | | | | | | | | | 179 |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|---|---------------|---------|------------------|-----------------|-------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 8 | | |  | | | | | | 178 |
| 9 | | |  | | | | | | 177 |
| 10 | | |  | | | | | | 176 |
| 11 | | |  | | | | | | 175 |
| 12 | | |  | | | | | | 174 |
| 13 | | |  | | | | | | 173 |
| 14 | | |  | | | | | | 172 |
| 15 | | |  | | | | | | 171 |
| 16 | | |  | | | | | | 170 |
| 17 | | 17.68 |  | | | | | | 169 |
| 18 | Lucas Formation
- Brownish grey, fine-grained, hard, dolostone with bituminous stromatolitic laminae
- Weathered brown/greyrubby/fractured dolostone | |  | | | | | | 168 |
| 19 | | |  | | | | | | 167 |
| 20 | - competent bedrock | 20.00 |  | | | | | | 166 |
| 21 | | |  | | | | | | 165 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 22 | | | | | | | | | 164 |
| 23 | Surface Casing [13 3/8 (inch) or 340 (mm)] | 23.10 | | | | | | | 163 |
| | | 23.30 | | | | | | | 162 |
| 24 | Dolostone
- Light grey/tan
- Fine-grained
- Abundant dark grey bituminous stromatolitic laminae
- Fractured | | CR-1 | | | | | | 161 |
| 25 | | | | | | | | | 160 |
| 26 | Dolostone
- Light grey
- Fine-grained
- Dark grey bituminous stromatolitic laminae
- Slightly pitted with calcite infilling | 26.15 | | | | | | | 159 |
| 27 | | | CR-2 | | | | | DGR1-027.30-GM-CAN | 158 |
| 28 | | | | | | | | DGR1-028.22-NG-UB | 157 |
| 29 | Dolostone
- Light grey/tan
- Fine-grained, slightly to moderately pitted
- Bioclastic floatstone bed at 30.4-30.8
- Vuggy zone at 31.9-32.2 with pyrite | 29.20 | | | | | | DGR1-029.38-GM-CAN | 156 |
| 30 | | | | | | | | DGR1-029.65-GM-PL | 156 |
| | | 30.40 | | | | | | DGR1-030.30-GM-PL | 155 |
| 31 | Amherstburg Formation
- Brown/grey fine to medium-grained fossiliferous dolostone
- Cherty with depth | | CR-3 | | | | | | 154 |
| 32 | | | | | | | | | 153 |
| 33 | Dolostone
- Light grey/brown, mottled, strolitic
- Slightly to moderately pitted
- Abundant clasts
- Abundantly fossiliferous (boundstone) | 32.25 | | | | | | | 152 |
| 34 | | | CR-4 | | | | | DGR1-033.92-GM-PL | 151 |
| | | | | | | | | DGR1-034.01-GM-PL | 151 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|-------------------|---------------|------------|------------------|------------------|-------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 35 | Dolostone
- Brown
- Fine-grained
- Slightly pitted
- Abundant clasts
- Abundantly fossiliferous (coral), (floatstone/boundstone bed) from 35.3-35.9
- Vuggy zone at 35.8-36.0
- Dark grey/brown at 35.7-36.3 | 35.30 | [Hatched pattern] | [Blue bar] | [Blue bar] | [Black bar] | [Vertical lines] | DGR1-034.81-GM-SL | 150 |
| 36 | | CR-5 | | | | | | 149 | |
| 37 | Dolostone
- Brown
- Fine-grained, massive
- Abundant bituminous laminae
- Trace vugs | 38.35 | [Hatched pattern] | [Red bar] | [Blue bar] | [Black bar] | [Vertical lines] | DGR1-038.50-GM-PS | 147 |
| 38 | | CR-6 | | | | | | 146 | |
| 39 | | CR-6 | | | | | | 146 | |
| 40 | Dolostone
- Brown, fine-grained, massive
- Trace bituminous laminae and vugs
- Fractured | 41.40 | [Hatched pattern] | [Red bar] | [Blue bar] | [Black bar] | [Vertical lines] | DGR1-038.95-GM-PL | 145 |
| 41 | | CR-7 | | | | | | 144 | |
| 42 | Dolostone
- Brown
- Fine-grained, massive
- Trace bituminous laminae
- Fractured | 42.40 | [Hatched pattern] | [Red bar] | [Blue bar] | [Black bar] | [Vertical lines] | DGR1-039.05-GM-PL | 143 |
| 43 | | CR-8 | | | | | | 142 | |
| 44 | Dolostone
- Brown
- Fine-grained, massive
- Abundant bituminous laminae
- Trace gravel sized clast
- Fractured at 44.7-47.1 | 44.45 | [Hatched pattern] | [Red bar] | [Blue bar] | [Black bar] | [Vertical lines] | DGR1-043.26-AR | 141 |
| 45 | | CR-9 | | | | | | 140 | |
| 46 | | CR-9 | | | | | | 140 | |
| 47 | | CR-9 | | | | | | 139 | |
| 48 | | 47.50 | [Hatched pattern] | | | | | DGR1-044.47-GM-PL | 141 |
| | | | | | | | | DGR1-044.59-NG-UO | 141 |
| | | | | | | | | DGR1-044.80-NG-UO | 141 |
| | | | | | | | | DGR1-045.18-GM-PL | 140 |
| | | | | | | | | DGR1-045.39-AR | 140 |
| | | | | | | | | | 138 |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|--|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 49 | Dolostone
- Light brown/grey
- Fine-grained
- Trace black stylolites
- Zones of chert nodules (2-10cm diameter) at 48.9-49.3
- Thin bituminous laminae
- Fractured at 48.0-48.5
- Vuggy zone at 48.2-49.4 | CR-10 | | | | | | DGR1-049.16-MN
DGR1-049.28-GM-PL
DGR1-049.36-GM-PL | 137 |
| 50 | Dolostone
- Light grey/brown
- Fine-grained
- Some mudstone layers
- Trace chert clasts
- Zones of fractured core at 50.7-51.6 and 52.2-57.0 | 50.55 | | | | | | | 136 |
| 51 | | CR-11 | | | | | | DGR1-051.71-AR
DGR1-052.13-GM-PS | 135 |
| 52 | | | | | | | | | 134 |
| 53 | | | | | | | | | 133 |
| 53.60 | | 53.60 | | | | | | | 132 |
| 54 | Cherty Dolostone
- Grey/brown
- Fine-grained
- Chert nodules, corals
- Fractured, uniform core breaks every 5cm
- Coral zone at 55.6-55.8
- Small brachiopod at 56.6 | CR-12 | | | | | | | 131 |
| 55 | | | | | | | | | 130 |
| 56 | Cherty Dolostone
- Light medium grey/brown
- Fine-grained
- Coral clasts and chert nodules throughout
- Zones of fractured core at 57.1-57.6 and 58.6-59.0 | 56.65 | | | | | | DGR1-056.04-GM-PL
DGR1-056.17-GM-PL | 129 |
| 57 | | CR-13 | | | | | | | 128 |
| 58 | | | | | | | | | 127 |
| 59 | | | | | | | | | 126 |
| 60 | Cherty Dolostone
- Light to medium brownish grey
- Fine to medium-grained
- Coral at 59.7-60.5
- Rounded gravel to cobble-sized chert nodules
- Thin bituminous laminations and microstylolites
- Brachiopod at 61.0
- Mudstone inclusions at 61.7-61.9
- Uniform core breaks at 5cm | 59.70 | | | | | | DGR1-060.04-GM-PL
DGR1-060.60-GM-PL
DGR1-060.88-AR | 125 |
| 61 | | CR-14 | | | | | | | 124 |
| 62 | | | | | | | | | 124 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|-------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 63 | Cherty Dolostone
- Light to medium brownish grey
- Fine to medium-grained
- Coral throughout
- Rounded gravel sized chert nodules
- Trace vugs
- Highly broken core at <5cm pieces
- Black staining and pyrite on fracture surfaces | 62.75 | | | | | | DGR1-064.18-GM-PS | 123 |
| 64 | | CR-15 | | | | | | DGR1-066.42-GM-PL | 122 |
| 65 | | 65.80 | | | | | | CR-16 | DGR1-067.13-AR |
| 66 | Cherty Dolostone
- Light brownish grey
- Fine to medium-grained
- Corals throughout with bioclastic zones
- Faint bituminous laminae throughout
- Uniform core breaks at 5cm
- Black staining and pyrite on fracture surfaces | 68.85 | | | | | | DGR1-068.03-GM-PL | 120 |
| 67 | | CR-17 | | | | | | DGR1-070.23-GM-PL | 119 |
| 68 | | 68.85 | | | | | | CR-17 | DGR1-070.66-GM-PL |
| 69 | Cherty Dolostone
- Medium brown/grey
- Medium-grained, with localized coarse grained bioclastic zones
- Very hard
- Trace coral
- Localized rounded gravel-sized chert nodules
- Slightly pitted at 70.0
- Fractured | 71.90 | | | | | | DGR1-070.84-GM-CAN | 117 |
| 70 | | CR-18 | | | | | | | 116 |
| 71 | | 71.90 | | | | | | CR-18 | |
| 72 | Cherty Dolostone
- Light to medium brownish grey, fine to medium-grained
- Some bituminous laminations
- Coral and bivalve fossils
- Trace pyrite on fracture surfaces
- Fractured
- Gravel-sized chert nodules | 73.45 | | | | | | | 114 |
| 73 | | 73.45 | | | | | | NC | |
| 74 | Cherty Dolostone
- Fine-grained with fossiliferous clasts
- Only 5cm of core recovered
- Gravel-sized chert nodules | 74.70 | | | | | | | 112 |
| 75 | | 74.70 | | | | | | CR-19 | |
| 75 | Bois Blanc Formation
- Brown/grey, fine to medium-grained, fossiliferous, cherty dolostone with thin black laminae | 74.95 | | | | | | DGR1-075.09-GM-PL | 110 |
| | | 74.95 | | | | | | | DGR1-075.66-GM-PL |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | | | | |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|--|--|--|-------------------|-------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | | | | |
| 76 | Cherty Dolostone
- Grey to brown, fine-grained, mottled
- Fine dark brown to black laminae
- Some calcite clasts/nodules at 76.4 and 76.9
- Calcite and pyrite fracture mineralization
- Highly fractured core at 75.2-75.7 and 76.8-77.2
- Some chert nodules
- Fractured | CR-20 | | | | | | DGR1-076.05-NG-UB | 109 | | | | | |
| | | | | | | | | DGR1-076.14-NG-UB | | | | | | |
| 77 | | | | | | | | | | | | | DGR1-076.30-NG-UB | |
| 78 | | | | | | | | 78.00 | | | | | | |
| 79 | Cherty Dolostone
- Grey to brown
- Fine-grained, mottled
- Some corals, bivalves at 79.2, 79.8 and 80.2
- Grey chert clasts throughout
- Calcite clasts at 80.6
- Shattered (core breaks at 5cm intervals) | CR-21 | | | | | | DGR1-078.82-GM-PL | 107 | | | | | |
| | | | | | | | | | | | | | | DGR1-079.21-GM-PL |
| 80 | | | | | | | | | | | | | | 106 |
| 81 | | 81.05 | | | | | | | | | | | | 105 |
| 82 | Cherty Dolostone
- Grey to brown
- Fine-grained, mottled
- Some light grey chert clasts
- Coral throughout
- Some mudstone dark grey/black laminae at 82.0, 83.0, 83.6 and 84.0
- Shattered | CR-22 | | | | | | DGR1-081.26-AR | 104 | | | | | |
| | | | | | | | | | | | | | | |
| 83 | | | | | | | | | | | | | | 103 |
| 84 | | 84.10 | | | | | | | | | | | | 102 |
| 85 | Cherty Dolostone
- Grey to brown
- Fine-grained, mottled
- Chert nodules
- Black laminae present at 84.3-84.4
- Low core recovery
- Shattered | CR-23 | | | | | | | 101 | | | | | |
| | | | | | | | | | | | | | | |
| 86 | | | | | | | | | | | | | | 100 |
| 87 | | 87.15 | | | | | | | | | | | | 99 |
| 88 | Cherty Dolostone
- Grey to brown
- Fine-grained, cherty
- Trace bituminous laminae
- Trace fossils
- Shattered
- Rubble zone at 87.6-88.0
- Low core recovery | CR-24 | | | | | | DGR1-087.19-GM-PL | 98 | | | | | |
| | | | | | | | | | | | | | | DGR1-087.45-GM-PL |
| 89 | | | | | | | | | | | | | | 97 |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|-------------|--------------|--|----|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | |
| 90 | Cherty Dolostone
- Grey to brown
- Fine-grained
- Chert-rich
- Trace bituminous laminae at 90.4
- Trace fossils
- Low core recovery
- Shattered | 90.20 | | | | | | | 96 | | |
| 91 | | 93.25 | | | | | | CR-25 | CR-26 | DGR1-094.33-AR | 95 |
| 92 | | 96.30 | | | | | | CR-27 | CR-28 | DGR1-096.47-GM-PL
DGR1-096.72-GM-PL
DGR1-097.08-MN | 94 |
| 93 | Cherty Dolostone
- Grey to brownish grey
- Fine-grained
- Chert-rich
- Localized zones of dense bituminous laminations at 93.6, 94.1 and 94.3
- Calcite and pyrite fracture mineralization
- Low core recovery | 93.25 | | | | | | | 93 | | |
| 94 | | 96.30 | | | | | | CR-27 | CR-28 | DGR1-099.48-NG-UB
DGR1-099.60-NG-UB
DGR1-099.93-AR
DGR1-100.05-GM-PL
DGR1-100.30-GM-PL | 92 |
| 95 | | 99.35 | | | | | | CR-28 | CR-29 | DGR1-101.89-PW-UO
DGR1-101.99-PW-UO
DGR1-102.26-NG-UO
DGR1-102.50-AR
DGR1-102.66-GM-PS | 91 |
| 96 | Cherty Dolostone
- Grey to brown
- Fine-grained
- Chert-rich
- Localized zones of bituminous laminae at 96.5, 97.0 and 98.2
- Shattered with uniform core breaks at 5cm
- Silicified coral at 97.2 and a vug at 96.7 | 96.30 | | | | | | | 90 | | |
| 97 | | 99.35 | | | | | | CR-27 | CR-28 | | 89 |
| 98 | | 101.20 | | | | | | CR-28 | CR-29 | | 88 |
| 99 | Cherty Dolostone
- Medium grey to brown
- Fine-grained
- Cherty zones at 99.6-99.8
- Localized zones of dense bituminous laminations at 100.0 and 100.2
- Shattered to fractured
- Rubble zones at 100.3 and 100.6 | 99.35 | | | | | | | 87 | | |
| 100 | | 101.20 | | | | | | CR-28 | CR-29 | | 86 |
| 101 | | 102.43 | | | | | | CR-29 | CR-29 | | 85 |
| 102 | Cherty Dolostone
- Medium grey to brown, fine-grained
- Cherty zones at 101.7-102.2
- Trace localized zones of dense bituminous laminae at 101.2 and 102.0
- Fractured
- Rubble zone at 102.2 | 101.20 | | | | | | | 84 | | |
| 103 | | 102.43 | | | | | | CR-29 | CR-29 | | 83 |
| 104 | | 102.43 | | | | | | CR-29 | CR-29 | | 83 |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|---|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 104 | Cherty Dolostone
- Medium grey to brown
- Fine-grained
- Cherty zones at 104.1-104.6
- Trace, dense bituminous laminae at 102.9 and 103.3
- Secondary calcite mineralization
- Porous coral fossil at 104.6
- Fractured, shattered from 103.2-104.0 | CR-30 | | | | | | DGR1-104.69-GM-PL | 82 |
| 105.48 | | | | | | | | | |
| 106 | Cherty Dolostone
- Medium grey to brown
- Fine-grained
- Chert/mudstone layers, nodules and clasts
- Localized zones of dense bituminous laminae at 106.8
- Healed calcite infilled fractures
- Chert rich zone at 107.8-108.2
- Fractured | CR-31 | | | | | | DGR1-106.00-AR | 80 |
| 107 | | | | | | | | | |
| 108 | | | | | | | | | |
| 108.53 | | | | | | | | | |
| 109 | Cherty Dolostone
- Medium grey to brown
- Fine-grained
- Chert layers/nodules
- Light grey mudstone clasts
- Calcite mineralization on fractures
- Fractured | CR-32 | | | | | | DGR1-108.62-GM-CAN
DGR1-108.92-AR | 77 |
| 110 | | | | | | | | | |
| 111 | | | | | | | | | |
| 111.58 | | | | | | | | | |
| 112 | Cherty Dolostone
- Grey to grey/brown, fine-grained
- Cobble size mudstone clasts at 111.8 and 111.9
- Trace coral and brachiopods
- Chert nodules at 112.6-112.8
- Fractured | CR-33 | | | | | | DGR1-110.23-GM-PL
DGR1-110.60-GM-PL | 75 |
| 113 | | | | | | | | | |
| 113 | Cherty Dolostone
- Medium grey to grey/brown, fine-grained
- Pebble to cobble size mudstone clasts
- Chert nodules at 113.2 and 114.2-114.5
- Faint bituminous laminae throughout
- Heavily fractured chert-rich zone at 113.2
- Fractured | CR-34 | | | | | | DGR1-113.95-AR | 72 |
| 114 | | | | | | | | | |
| 114.63 | | | | | | | | | |
| 115 | Cherty Dolostone
- Grey to grey brown
- Fine-grained
- Mudstone clasts
- Chert nodules and layers
- Trace coral and brachiopods
- Core breaks at chert layers
- Pyrite and calcite inclusions and as fracture minerals
- Fractured | CR-35 | | | | | | DGR1-114.74-AR
DGR1-114.91-AR
DGR1-115.61-GM-PL | 71 |
| 116 | | | | | | | | | |
| 116 | | | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|---|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 117 | Cherty Dolostone
- Grey to grey brown
- Fine-grained
- Abundant mudstone clasts/chert nodules
- Laminated
- Core breaks at chert layers
- Soft weathered zones with sand-sized fragments at 119.0 and 119.3
- Fractured | 117.68 | | | | | | DGR1-117.31-AR | 69 |
| 118 | | | | | | | | DGR1-118.28-GM-PL | 68 |
| 119 | | | | | | | | DGR1-119.33-AR | 67 |
| 120 | | | | | | | | | 66 |
| 121 | Cherty Dolostone
- Grey, fine-grained
- Mudstone clasts and chert nodules
- Abundant dark laminae throughout
- Trace calcite infilled vugs
- Fractured to shattered | 120.53 | | | | | | DGR1-121.32-GM-PL | 65 |
| 122 | | | | | | | | DGR1-121.48-NG-UB
DGR1-121.62-NG-UB
DGR1-121.76-NG-UB | 64 |
| 123 | | | | | | | | DGR1-123.12-GM-PL | 63 |
| 124 | | | | | | | | | 62 |
| 124 | Bass Islands Formation
- Light grey to brown, very fine to fine-grained, sparsely fossiliferous dolostone
Dolostone
- Dark grey chert in argillaceous dolostone
- Dark grey shale layer at 123.9-124.0
- Medium grey/brown dolostone at 124.0
- Grey/brown, very fine-grained, massive at 124.0-124.6
- Shattered

Dolostone
- Medium brown/grey, very fine-grained
- Some very thin black bituminous laminations
- Shattered

Dolostone
- Grey/brown, very fine-grained
- Laminated to thin bedded
- Shattered

Dolostone
- Dark grey
- Very fine-grained
- Pyrite mineralization on fractures
- Shattered | 124.00 | | | | | | DGR1-124.09-GM-PL | 62 |
| 125 | | | | | | | | | 61 |
| 126 | | | | | | | | | 60 |
| 127 | | | | | | | | | 59 |
| 128 | | | | | | | | | 58 |
| 129 | | | | | | | | | 57 |
| 130 | | 129.88 | | | | | | DGR1-129.33-GM-PL | 56 |
| 130 | | | | | | | | DGR1-130.03-MN | 56 |

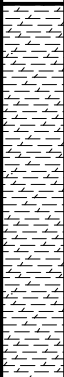
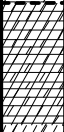
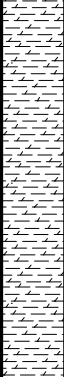


| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|---|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 131 | - Laminated to thin bedded | CR-42 | | | | | | | 55 |
| 132 | Dolostone
- Grey, fine to very fine-grained
- Laminated
- Shattered | 131.40
CR-43 | | | | | | | 54 |
| 133 | Dolostone
- Light to dark grey, fine to very fine-grained
- Shattered | 132.13
CR-44 | | | | | | DGR1-132.49-GM-PL
DGR1-132.77-GM-PL | 53 |
| 134 | Dolostone
- Light to dark grey/brown, colour variable throughout
- Fine to very fine-grained
- Laminated
- Dolomitized shale layer at 134.1-134.6
- Weathered shale zone at 134.4
- Shattered | 133.50
CR-45 | | | | | | | 52 |
| 136 | Dolostone
- Grey/brown
- Fine to very fine-grained, laminated
- Slightly pitted
- Shattered, fracture identification not possible | 135.98
CR-46 | | | | | | | 51 |
| 139 | Dolostone
- Grey/brown, fine-grained, micro-crystalline
- Blue/grey colour horizontal layering/mottling
- Shattered
- Calcite fracture infilling
- Laminated | 138.11
CR-47 | | | | | | DGR1-138.57-NG-UB
DGR1-138.67-NG-UB
DGR1-138.78-NG-UB
DGR1-139.11-AR | 50 |
| 141 | - No core recovery
- Soft drilling conditions | 140.24
CR-48 | | | | | | | 49 |
| 143 | Dolostone
- Light grey/brown
- Fine to very fine-grained, thin dark laminae
- Calcite on fracture surface at 142.2
- Slightly pitted
- Shattered, fracture identification not possible | 142.08
CR-49 | | | | | | | 48 |
| 140 | | | | | | | | | 47 |
| 141 | | | | | | | | | 46 |
| 142 | | | | | | | | | 45 |
| 143 | | | | | | | | | 44 |
| 142 | | | | | | | | | 43 |
| 143 | | | | | | | | | 42 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|-------------------|----|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | | |
| 144 | Dolostone
- Light grey/brown
- Fine to very fine-grained, faintly laminated
- Blue/grey mottling
- Shattered, fracture identification not possible | 144.21 | | | | | | DGR1-144.67-GM-PL | 41 | |
| 145 | | CR-50 | | | | | | 146.34 | DGR1-146.38-GM-PL | 40 |
| 146 | Dolostone
- Light grey/brown
- Fine to very fine-grained, laminated
- Shattered, fracture identification not possible | 146.34 | | | | | | DGR1-146.38-GM-PL | 39 | |
| 147 | | CR-51 | | | | | | 148.17 | | 38 |
| 148 | Dolostone
- Light grey/brown
- Fine to very fine-grained,
- Laminated
- Shattered, fracture identification not possible | 148.17 | | | | | | | 37 | |
| 149 | | CR-52 | | | | | | 150.30 | | 36 |
| 150 | Dolostone
- Grey/brown
- Fine to very fine-grained
- Laminated
- Shattered, fracture identification not possible | 150.30 | | | | | | | 35 | |
| 151 | | CR-53 | | | | | | 152.44 | | 34 |
| 152 | - No core recovery
- Soft drilling conditions | 152.44 | | | | | | | 33 | |
| 153 | | CR-54 | | | | | | 154.28 | | 32 |
| 154 | Dolostone
- Grey/brown
- Fine to very fine-grained
- Laminated
- Dark brown to black laminae
- Shattered, fracture identification not possible | 154.28 | | | | | | DGR1-154.54-NG-UB | 31 | |
| 155 | | CR-55 | | | | | | 156.41 | DGR1-154.82-NG-UB | 30 |
| 156 | | CR-56 | | | | | | 156.41 | DGR1-155.24-NG-UB | 29 |
| 157 | Dolostone
- Grey/brown
- Fine to very fine-grained, massive
- Stylitic lamination
- Shattered, fracture identification not possible | 156.41 | | | | | | DGR1-156.56-NG-UO | 29 | |
| | | CR-56 | | | | | | | DGR1-156.63-MN | |





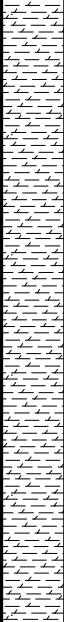
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 158 | Dolostone
- Grey/brown
- Very fine-grained, massive
- Occasional stylitic lamination
- Abundant vuggy mouldic porosity
- Shattered, fracture identification not possible | 158.54 | | | | | | | 28 |
| 159 | | CR-57 | | | | | | | 27 |
| 160 | Dolostone
- Grey/brown, fine to very fine-grained, massive with stylitic laminae at 160.4-160.5 | 160.38 | | | | | | | 26 |
| 161 | Brecciated Argillaceous Dolostone
- Light grey and dark grey angular and rounded clasts (up to 5cm), 160.5-161.3, in argillaceous dolostone matrix | 160.50 | | | | | | | 161.30 |
| 162 | Dolostone
- Grey, fine to very fine-grained, laminated with black laminae and shale laminae, below 161.3
- Shattered to blocky | 162.51 | CR-58 | | | | | DGR1-160.93-GM-CAN | 24 |
| 163 | Dolostone
- Grey/brown, dolostone
- Fine to very fine-grained, massive, 162.5-162.8
- Blue dolostone clasts with pink halo effect, 162.8-164.6
- Shattered to fractured | 164.64 | CR-59 | | | | | DGR1-161.19-GM-PL | 23 |
| 165 | Dolostone
- Grey/brown
- Fine-grained to very fine-grained, massive
- Black layer on fracture surface
- Shattered, complete fracture identification not possible | 166.48 | CR-60 | | | | | DGR1-162.86-GM-PL | 22 |
| 166 | Dolostone
- Medium grey/brown
- Fine-grained to very fine-grained, massive
- Stylitic black laminae
- Shattered, complete fracture identification not possible | 167.10 | CR-61 | | | | | DGR1-163.21-GM-PL | 21 |
| 167 | Dolomitic Shale
- Grey dolomitic shale | 168.61 | | | | | | DGR1-165.08-GM-PL | 20 |
| 168 | Dolomitic Shale, - Grey | 169.30 | | | | | | CR-62 | DGR1-166.59-AR |
| 169 | Argillaceous Dolostone, - Brown/grey, fine-grained | 169.54 | | | | | | DGR1-169.23-GM-SL | 18 |
| 170 | Anhydrite, - White and grey | 169.72 | | | | | | CR-63 | DGR1-169.45-GM-PL |
| 171 | Salina Formation - G Unit
- Brown dolostone and argillaceous dolostone interlayered with grey/blue to grey dolomitic shale with anhydrite and gypsum veins | 170.45 | | | | | | DGR1-170.09-AR | 16 |
| | | 170.06 | | | | | | CR-64 | DGR1-171.14-GM-CAN |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|--|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 172 | Dolomitic Shale , - Grey with abundant gypsum and anhydrite veins
Dolomitic Shale
- Grey/blue dolomitic shale with abundant gypsum and anhydrite veins, some grey/brown thin argillaceous dolostone interbeds | CR-63 | | | | | | DGR1-171.61-GM-PL
DGR1-172.32-NG-UO | 14 |
| | | 172.58 | | | | | | | |
| 173 | Dolostone
- Brown
- Fine-grained
- Trace thin gypsum and anhydrite layers
- Shattered, fracture identification not possible | | | | | | | | 13 |
| 174 | | CR-64 | | | | | | | 12 |
| 175 | | | | | | | | | 11 |
| 176 | Dolostone
- Brown
- Fine-grained
- Bituminous laminae
- Fractures along bituminous laminations
- Fractured | CR-65 | | | | | | | 10 |
| 177 | Dolostone
- Brown/tan argillaceous dolostone
- White gypsum layers (<1mm to 3cm)
- Grades to dolomitic shale | CR-65 | | | | | | | 9 |
| | | 177.00 | | | | | | | |
| | | 177.50 | | | | | | | |
| 178 | Dolomitic Shale
- Dark grey/blue dolomitic shale, trace orange and pink anhydrite veins throughout (<1mm to 1cm) | CR-66 | | | | | | DGR1-178.09-GM-SL
DGR1-178.20-GM-PL
DGR1-178.30-AR | 8 |
| | | 178.60 | | | | | | | |
| 179 | Salina Formation - F Unit
- Grey/blue dolomitic shale with gypsum and anhydrite veins, interlayered dolostone and dolomitic shale with depth | | | | | | | | 7 |
| 180 | Dolomitic Shale
- Medium dark grey
- White gypsum layers (<1mm to 2cm)
- Trace orange and pink anhydrite veins throughout (<1mm to 1cm), blocky | CR-67 | | | | | | DGR1-179.93-GM-SL
DGR1-180.25-GM-PL | 6 |
| 181 | Dolomitic Shale
- Medium dark grey
- White gypsum layers (<1mm to 1.5cm)
- Minor orange and pink anhydrite veins throughout (<1mm to 1cm) | CR-67 | | | | | | DGR1-180.65-NG-UB | 5 |
| | | 180.81 | | | | | | | |
| | Intermediate Casing [9 5/8 (inch) or 245 (mm)] | CR-68 | | | | | | DGR1-181.89-GM-PL | 4 |
| | | 182.00 | | | | | | | |
| | Marker Bed - Tan massive dolostone layer | | | | | | | | |
| | | 182.20 | | | | | | | |
| 183 | Open Borehole [6 1/4 (inch) or 159 (mm)] | NC | | | | | | DGR1-182.49-AR
DGR1-182.76-GM-PS
DGR1-182.89-NG-UO | 3 |
| | | 182.94 | | | | | | | |
| | | 183.46 | | | | | | | |
| 184 | Dolomitic Shale
- Grey/green
- Fine-grained
- Reddish/brown mottles
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | CR-69 | | | | | | DGR1-183.60-GM-CAN | 2 |
| | | | | | | | | | 1 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|
| 1m.40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 185 | Dolomitic Shale
- Grey/green
- Fine-grained
- Reddish/brown mottles
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | 185.32 | | | | | | DGR1-185.01-NG-UB | 0 |
| | | | | | | | | DGR1-185.62-GM-PL | |
| 186 | | | | | | | | DGR1-185.97-AR | |
| | | | | | | | | DGR1-186.88-GM-PL | |
| 187 | Dolomitic Shale
- Grey/green
- Fine-grained
- Reddish/brown mottles
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | 188.37 | | | | | | | -1 |
| 189 | | | | | | | | | |
| 190 | | | | | | | | | |
| 191 | | | | | | | | | |
| 192 | Dolomitic Shale
- Grey/green
- Fine-grained
- Reddish/brown mottles
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | 191.42 | | | | | | | -2 |
| 193 | | | | | | | | | |
| 194 | | | | | | | | | |
| 195 | | | | | | | | | |
| 196 | Dolomitic Shale
- Grey/green
- Fine-grained, reddish brown mottles near top
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | 194.47 | | | | | | DGR1-193.64-GM-PL | -3 |
| 197 | | | | | | | | DGR1-193.87-GM-PS | |
| 198 | | | | | | | | DGR1-194.33-NG-UB | |
| 199 | | | | | | | | DGR1-195.18-GM-PL | |
| 200 | Dolomitic Shale
- Grey/green
- Fine-grained
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | | | | | | | DGR1-195.41-AR | -4 |
| | | | | | | | | | |
| 201 | | 197.52 | | | | | | | -5 |
| 202 | Dolomitic Shale
- Grey/green
- Fine-grained
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | | | | | | | | -6 |
| | | | | | | | | | |
| 203 | | | | | | | | | -7 |
| 204 | Dolomitic Shale
- Grey/green
- Fine-grained
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | | | | | | | | -8 |
| | | | | | | | | | |
| 205 | | | | | | | | | -9 |
| 206 | Dolomitic Shale
- Grey/green
- Fine-grained
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | | | | | | | | -10 |
| | | | | | | | | | |
| 207 | | | | | | | | | -11 |
| 208 | Dolomitic Shale
- Grey/green
- Fine-grained
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | | | | | | | | -12 |
| | | | | | | | | | |
| 209 | | | | | | | | | -13 |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | | | | |
|--------------|---|-----------------|---|---------------|---------|------------------|-----------------|--------------------|--------------|--|--|--|-------------------|-----|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | | | | |
| 199 | Dolomitic Shale
- Grey/green
- Gypsum and anhydrite layers, veins and nodules
- Soft
- Blocky | CR-74 |  | | | | | DGR1-198.66-GM-PL | -13 | | | | | |
| 200 | | 200.57 | | | | | | | | | | | | |
| 201 | | | | | | | | | | | | | | |
| | | 201.77 | | | | | | | | | | | | |
| 202 | Anhydritic Dolostone
- Fine-grained interbedded dark brown dolostone and white gypsum | CR-75 |  | | | | | DGR1-202.15-GM-PL | -16 | | | | | |
| | | 202.47 | | | | | | | | | | | | |
| 203 | Dolomitic Shale
- Grey/green
- Reddish brown zones
- Gypsum and anhydrite layers, veins and nodules
- Blocky | |  | | | | | | -17 | | | | | |
| 204 | | 203.62 | | | | | | | | | | | DGR1-204.14-GM-PL | -18 |
| 205 | | | | | | | | CR-76 | | | | | | |
| 206 | | | | | | | | | | | | | | |
| | | 206.67 | | | | | | DGR1-206.55-GM-CAN | -21 | | | | | |
| 207 | Dolomitic Shale
- Grey/green
- Fine-grained, argillaceous zones
- Gypsum and anhydrite layers, veins and nodules
- Reddish brown mottles
- Blocky | |  | | | | | DGR1-206.79-AR | -21 | | | | | |
| 208 | | CR-77 | | | | | | | | | | | | |
| 209 | | | | | | | | | | | | | | |
| | | 209.72 | | | | | | DGR1-209.80-GM-PL | -24 | | | | | |
| 210 | Dolomitic Shale
- Grey/green
- Gypsum and anhydrite layers, veins and nodules
- Blocky | |  | | | | | | -25 | | | | | |
| 211 | | CR-78 | | | | | | | | | | | | |
| 212 | | | | | | | | | -26 | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | | | | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | | | | |





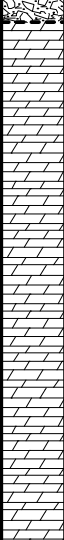

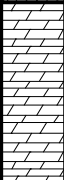
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 213 | Dolomitic Shale
- Grey/green
- Fine-grained
- Gypsum and anhydrite layers, veins and nodules
- Blocky
- Dolostone clasts at 214.7, 215.3 and 215.6 | 212.77 | | | | | | DGR1-213.42-GM-PL | -27 |
| 214 | | CR-79 | | | | | | | |
| 215 | Dolomitic Shale
- Interlayered grey/green to 217.0
- Gypsum/anhydrite matrix
- Blocky | 215.82 | | | | | | | -29 |
| 216 | | | | | | | | | |
| 217 | | 217.00 | | | | | | | -31 |
| 218 | Brecciated Dolostone
- Tan/brown brecciated dolostone below 217.0
- Rough inclined open fracture at 218.5
- Blocky | CR-80 | | | | | | | -32 |
| 219 | | | | | | | | | |
| 220 | Brecciated Dolostone
- Tan/brown, brecciated (dolostone)
- Interlayered grey/green argillaceous dolostone
- Gypsum and anhydrite layers and veins | 218.87 | | | | | | DGR1-219.45-GM-PL | -33 |
| 221 | | CR-81 | | | | | | | |
| 222 | Brecciated Dolostone
- Tan/brown, brecciated (dolostone)
- Interlayered grey/green argillaceous dolostone
- Gypsum and anhydrite layers and veins | 221.92 | | | | | | DGR1-221.45-AR | -35 |
| 223 | | | | | | | | | |
| 224 | Salina Formation - E Unit
- Brecciated brown dolostone and grey/blue dolomitic shale
Dolomitic Shale
- Interbedded grey/green dolomitic shale and argillaceous dolostone
- Abundant gypsum and anhydrite veins
- Brecciated: tan dolostone clasts in dolomitic shale matrix from 224.5-224.6
- Mottled grey and white anhydrite/gypsum and dolomitic shale over bottom 0.4 m | 223.00 | | | | | | | -36 |
| 225 | | CR-82 | | | | | | | |
| 226 | | 224.97 | | | | | | DGR1-224.85-NG-UB | -37 |
| 227 | | 225.30 | | | | | | | -38 |
| 228 | | | | | | | | | -39 |
| 229 | | | | | | | | | -40 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | | | | | |
|--------------|---|-------------------|--|---------------|---------|------------------|-----------------|---|----------------|--|--|--|-------------------|-----|--|
| 1m.40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | | | | | |
| 226 | Brecciated Dolostone
- Tan/grey, brecciated dolostone
- Grey/green dolomitic shale layers
- Abundant gypsum and anhydrite features
- Blocky | CR-83 |  | | | | | DGR1-226.27-NG-UO | -41 | | | | | | |
| | | | | | | | | DGR1-226.48-GM-PL | | | | | | | |
| 227 | | | | | | | | DGR1-227.09-GM-PL | | | | | | | |
| | | DGR1-227.24-GM-PS | | | | | | | | | | | | | |
| 228 | | 228.02 | | | | | | | | | | | | | |
| 229 | Brecciated Dolostone
- Tan/grey, brecciated dolostone
- Gypsum/anhydrite dolomitic shale (green/grey) as matrix
- Gypsum and anhydrite layers, veins and nodules
- Blocky | CR-84 |  | | | | | DGR1-228.81-GM-PL | -43 | | | | | | |
| | | | | | | | | DGR1-228.92-GM-PL | | | | | | | |
| 230 | | | | | | | | | DGR1-230.08-AR | | | | | | |
| 231 | 231.07 | | | | | | | | | | | | | | |
| 232 | Brecciated Dolostone
- Mixture of grey and tan brecciated dolostone
- Fine-grained dolostone/dolomitic shale layers
- Some gypsum and anhydrite features
- Matrix slightly greenish-grey, dolomitic shale
- Fractured to blocky | CR-85 | | | | | |  | | | | | DGR1-231.49-MN | -46 | |
| 233 | | | | | | | | | | | | | | | |
| 234 | | | 234.12 | | | | | | | | | | | | |
| 235 | Brecciated Dolostone
- Grey and tan brecciated dolostone
- Fine-grained dolostone/dolomitic shale below 236.2
- Gypsum and anhydrite veins and nodules throughout
- Some highly brecciated zones at 235.2-236.1
- Fractured to blocky | CR-86 |  | | | | | | | | | | DGR1-235.94-GM-PL | -50 | |
| 236 | | | | | | | | | | | | | 236.20 | | |
| 237 | Dolomitic Shale
- Dark grey and tan
- Very fine-grained
- Trace amounts of gypsum and anhydrite veins present
- Trace fracturing along shale layers with silty clay infilling
- Fractured | CR-87 | | | | | |  | | | | | DGR1-236.32-GM-PS | -51 | |
| 238 | | | | | | | | | | | | | 237.17 | | |
| 239 | | | | | | | | | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 240 | Dolomitic Shale
- Grey dolomitic shale
- Fine-grained argillaceous dolostone layers
- Gypsum and anhydrite layers, veins and nodules present, increasing with depth
- Blocky | 240.22 | | | | | | | -54 |
| 241 | | CR-88 | | | | | | DGR1-242.12-GM-PL | -55 |
| 242 | | | | | | | | | -56 |
| 243 | | 243.00 | | | | | | | -57 |
| 243 | Salina Formation - D Unit
- Blue/grey to brown, anhydritic dolostone | 243.27 | | | | | | DGR1-243.14-AR | -58 |
| 244 | | 244.60 | | | | | | | |
| 245 | Salina Formation - C Unit
Grey/blue massive to laminated dolomitic shale with trace to some anhydrite/gypsum veins and nodules | CR-89 | | | | | | | -59 |
| 246 | | 246.32 | | | | | | DGR1-245.92-GM-PL | -60 |
| 247 | Dolomitic Shale
- Interlaminated red and greenish grey dolomitic shale
- Gypsum and anhydrite veins and nodules
- Anhydritic clastic zone at 248.0
- Massive
- Medium soft | CR-90 | | | | | | | -61 |
| 248 | | | | | | | | | |
| 249 | | 249.37 | | | | | | DGR1-249.33-NG-UO | -63 |
| 250 | Dolomitic Shale
- Interlaminated red and green dolomitic shale
- Gypsum and anhydrite, veins and nodules
- Locally brecciated: tan dolostone clasts in red and green dolomitic shale matrix
- Blocky | CR-91 | | | | | | DGR1-249.52-GM-PL | -64 |
| 251 | | | | | | | | | |
| 252 | | 252.42 | | | | | | DGR1-251.19-GM-PS | -66 |
| 253 | | | | | | | | DGR1-251.43-GM-SL | -67 |
| 253 | | | | | | | | | -67 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |




| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | |
|--------------|---|--|--------------|---------------|---------|------------------|-----------------|-------------------|--------------------|----------------|-------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | |
| 254 | <p>Dolomitic Shale
- Grey/green and red dolomitic shale
- Massive
- Brecciated with tan dolostone clasts (~0.3m thick intervals) at 252.4, 253.6, 255.2
- Gypsum and anhydrite nodules and veins</p> <p>Dolomitic Shale
- Grey/green and red dolomitic shale
- Gypsum and anhydrite nodules and veins
- Massive</p> <p>Dolomitic Shale
- Grey/green and red dolomitic shale
- Gypsum and anhydrite nodules and veins</p> | CR-92 | | | | | | DGR1-253.40-GM-SL | -68 | | |
| 255 | | 255.47 | | | | | | | DGR1-254.79-AR | -69 | |
| 256 | | CR-93 | | | | | | | DGR1-255.58-GM-SL | -70 | |
| 257 | | | | | | | | | DGR1-257.15-GM-PL | -71 | |
| 258 | | | | | | | | | DGR1-257.65-GM-PL | -72 | |
| 258 | | 258.52 | | | | | | | DGR1-258.36-NG-UB | -73 | |
| 259 | | CR-94 | | | | | | | | -74 | |
| 260 | | 260.30 | | | | | | | | | |
| 261 | | <p>Salina Formation - B Unit
- Grey/green dolomitic shale with some to abundant tan argillaceous dolostone and light grey/green dolomitic shale clasts and some to abundant anhydrite and gypsum veins and nodules. Bottom of unit is brown to tan dolostone.</p> <p>Brecciated Argillaceous Dolostone
- Tan, fine-grained brecciated argillaceous dolostone with abundant anhydrite and gypsum veins (~50%)</p> | | CR-95 | | | | | | DGR1-260.85-AR | -75 |
| 262 | | | | 261.58 | | | | | | | DGR1-261.68-GM-PL |
| 263 | <p>Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Blocky</p> <p>Brecciated Dolomitic Shale
- Grey/green with red mottles over upper part, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Blocky</p> | CR-96 | | | | | | | | | |
| 264 | | 262.47 | | | | | | | DGR1-262.04-GM-PL | -77 | |
| 265 | | 264.62 | | | | | | | DGR1-264.71-GM-PL | -79 | |
| 266 | | | | | | | | | DGR1-266.20-GM-CAN | -81 | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | |


| Depth (mBGS)
1m:40m | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery
100 % 0 | R.Q.D.
100 % 0 | Nat. Frac. Freq.
0 /m 10 | Core Axis Angle
0 ----- 90 | Sample ID # | Elev. (mASL) | |
|------------------------|--|-----------------|--------------|--------------------------|-------------------|-----------------------------|-------------------------------|-------------------------------------|--|-----|
| 267 | <p>Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Blocky</p> <p>Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Blocky</p> <p>Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Blocky</p> <p>Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Massive</p> <p>Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Massive</p> | 267.67 | | | | | | DGR1-267.60-GM-PL
DGR1-267.78-MN | -82 | |
| 268 | | 270.72 | | | | | | CR-97 | DGR1-270.89-AR | -85 |
| 269 | | 273.77 | | | | | | CR-98 | DGR1-273.35-GM-PL
DGR1-273.48-GM-PL | -88 |
| 270 | | CR-99 | | | | | | DGR1-274.59-GM-PL | -89 | |
| 271 | | 276.82 | | | | | | CR-100 | DGR1-275.49-GM-PL | -90 |
| 272 | | 279.87 | | | | | | | | -94 |
| 273 | | | | | | | | | | |
| 274 | | | | | | | | | | |
| 275 | | | | | | | | | | |
| 276 | | | | | | | | | | |
| 277 | | | | | | | | | | |
| 278 | | | | | | | | | | |
| 279 | | | | | | | | | | |
| 280 | | | | | | | | | | |
| Depth (mBGS)
1m:40m | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery
100 % 0 | R.Q.D.
100 % 0 | Nat. Frac. Freq.
0 /m 10 | Core Axis Angle
0 ----- 90 | Sample ID # | Elev. (mASL) | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|---|---------------|---------|------------------|-----------------|--|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 281 | Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Massive | CR-101 |  | | | | | DGR1-282.11-GM-PL | -95 |
| 282 | | | | | | | | DGR1-282.34-AR | -96 |
| | | 282.57 | | | | | | | |
| | Dolostone , - Dark grey, fine-grained, massive dolostone (large dolostone clast?) | 282.92 |  | | | | | | -97 |
| 283 | Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Massive | CR-102 |  | | | | | | -98 |
| 284 | | | | | | | | | -99 |
| 285 | | | | | | | | | -100 |
| 286 | Brecciated Dolomitic Shale
- Grey/green with red mottles, soft to medium soft brecciated dolomitic shale with tan argillaceous dolostone
- Some to abundant gypsum and anhydrite veins and nodules, light grey/green dolomitic shale clasts
- Massive | CR-103 |  | | | | | DGR1-285.89-GM-PL | -101 |
| 287 | | | | | | | | DGR1-286.69-GM-CAN | -102 |
| 288 | | 288.37 | | | | | | | |
| 289 | Dolostone
- Black/brown to brown with depth
- Very fine-grained dolostone with abundant dark brown laminae and trace anhydrite and gypsum veins
- Blocky | CR-104 |  | | | | | DGR1-288.65-NG-UB | -103 |
| 290 | | | | | | | | | -104 |
| 291 | | | | | | | | DGR1-290.37-GM-PL
DGR1-290.48-GM-PL | -105 |
| | | 291.20 | | | | | | | |
| 292 | Salina Formation - B Unit - Evaporite
- Interbedded grey anhydrite and brown dolostone
- Light tan/grey, anhydrite and dolostone laminae and shale laminae | CR-105 |  | | | | | | -106 |
| 293 | | | | | | | | DGR1-292.58-AR | -107 |
| | | 293.10 | | | | | | | |
| 294 | Salina Formation - A2 Unit - Carbonate
- Tan to grey, fine-grained, laminated to massive bedded dolostone, dolomitic shale, interlaminated/interbedded with bituminous laminae, and gypsum and anhydrite | CR-105 |  | | | | | | -108 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|---|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 295 | Dolostone
- Tan grey/brown
- Fine-grained
- Laminated
- Anhydrite/gypsum laminae throughout
- Fractured to blocky | 295.12 | | | | | | DGR1-294.70-GM-PL
DGR1-294.84-NG-UO
DGR1-294.95-GM-PL | -109 |
| 296 | Dolostone
- Light tan/grey
- Gypsum, anhydrite and shale laminae throughout
- Increasing shale content between 296.0-297.5
- Blocky | CR-106 | | | | | | | -110 |
| 297 | | | | | | | | | -111 |
| 298 | | 298.17 | | | | | | | -112 |
| | | 298.69 | | | | | | DGR1-298.37-GM-PL
DGR1-298.45-GM-PL | -113 |
| 299 | Argillaceous Dolostone and Dolomitic Shale
- Light tan/grey
- Gypsum, anhydrite veins and shale laminae
- Laminated to thin bedded | CR-107 | | | | | | | -114 |
| 300 | | | | | | | | | -115 |
| 301 | Argillaceous Dolostone and Dolomitic Shale
- Grey/dark grey
- Fine to very fine-grained
- Localized dense bituminous laminae
- Trace microstylolites
- Fractured to blocky | 301.22 | | | | | | | -116 |
| 302 | | CR-108 | | | | | | DGR1-301.94-AR | -117 |
| 303 | | | | | | | | | -118 |
| 304 | | 304.27 | | | | | | | -119 |
| 305 | Argillaceous Dolostone and Dolomitic Shale
- Grey/dark grey
- Fine to very fine-grained
- Localized dense bituminous laminae (shale zones)
- Transition to grey dolostone below 305.0
- Laminated
- Blocky to fractured | CR-109 | | | | | | | -120 |
| 306 | | 306.50 | | | | | | | -121 |
| 307 | Dolomitic Shale
- A2 Shale
- Grey/dark grey dolomitic shale
- Trace gypsum and anhydrite nodules | 307.32 | | | | | | DGR1-307.08-GM-PL | -122 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|---|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 308 | | 308.50 | | | | | | | |
| 309 | Argillaceous Dolostone and Dolomitic Shale
- Grey/dark grey
- Fine to very fine-grained
- Localized dense bituminous laminae/shaley zones
- Trace gypsum and anhydrite nodules
- Slight petroliferous odour
- Fractured to blocky | CR-110 | | | | | | | -123 |
| 310 | | 310.37 | | | | | | | -124 |
| 311 | Dolostone
- Tan/grey
- Very fine-grained, massive bedded
- Blocky | CR-111 | | | | | | DGR1-311.14-GM-PL | -125 |
| 312 | | 312.50 | | | | | | | -126 |
| 313 | Anhydritic Dolostone
- Anhydritic dolostone interbedded with dolomitic shale to 314.5 | 313.42 | | | | | | | -127 |
| 314 | | 314.50 | | | | | | | -128 |
| 315 | Dolostone
- Tan/grey
- Very fine-grained
- Localized bituminous laminae
- Blocky
- Laminated | CR-112 | | | | | | DGR1-314.88-GM-CAN
DGR1-315.17-GM-PL | -129 |
| 316 | | 316.47 | | | | | | | -130 |
| 317 | Dolostone
- Tan, dark grey near bottom
- Very fine-grained
- Localized dense bituminous laminae
- Laminated
- Massive | CR-113 | | | | | | DGR1-317.23-AR | -131 |
| 318 | | 319.02 | | | | | | | -132 |
| 319 | Dolomitic Shale
- Sharp contact, grey/green, soft | 319.52 | | | | | | | -133 |
| 320 | Salina Formation - A2 Unit - Evaporite
- Mottled light grey/blue anhydritic dolostone | | | | | | | | -134 |
| 321 | Anhydritic Dolostone
- Light grey/blue anhydritic dolostone
- Trace amounts of gypsum veins
- Blocky | CR-114 | | | | | | DGR1-320.83-GM-PL | -135 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | | | | |
|--------------|--|-----------------|--|---------------|---------|------------------|-----------------|--|--------------|--|--|-------------------|-------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | | | | |
| 322 | Anhydritic Dolostone
- Light grey to light tan anhydrite with trace dolomite
- Vuggy dolomitic zone starting at 325.5
- Blocky | 322.57 |  | | | | | DGR1-322.19-MN | -136 | | | | | |
| 323 | | CR-115 | | | | | |  | | | | | DGR1-324.09-GM-PL | -137 |
| 324 | | | | | | | | | | | | | DGR1-324.16-GM-PL | -138 |
| 325 | | | | | | | | | | | | | | -139 |
| 325.50 | | 325.02 | | | | | | | | | | | | |
| 326 | Salina Formation - A1 Unit - Carbonate
- Grey to tan/grey laminated argillaceous dolostone interbedded/laminated with grey to black bituminous shale and trace to abundant gypsum and anhydrite
Dolostone
- Blackish/brown, fine-grained, very vuggy
- Laminated
- Bituminous
- Blocky | 327.25 | CR-116 | | | | | | -140 | | | | | |
| 327 | Argillaceous Dolostone
- Dark grey, fine-grained, irregularly laminated, blocky | 327.92 |  | | | | | | -141 | | | | | |
| 328 | Dolostone , - Blackish/brown, fine-grained, very vuggy, laminated, bituminous, blocky | 328.37 | | | | | | | | | | DGR1-327.94-FAR | -142 | |
| 329 | Argillaceous Dolostone
- Grey
- Very fine-grained
- Thinly bedded with shale interlaminae
- 0.1m thick abundantly vuggy zone at 330.0
- Blocky

Argillaceous Dolostone
- Grey
- Very fine-grained
- Thin to very thin anhydrite infilled fractures
- Blocky | 328.67 |  | | | | | | -143 | | | | | |
| 330 | | CR-117 | | | | | | | | | | DGR1-329.70-GM-PL | -144 | |
| 331 | | | | | | | | | | | | DGR1-329.85-GM-PL | -145 | |
| 332 | | 331.72 | | | | | | | | | | | -146 | |
| 333 | CR-118 | | | | | | | -147 | | | | | | |
| 334 | | | | | | | | | -148 | | | | | |
| 335 | | 334.77 | | | | | | DGR1-334.45-NG-UB | -149 | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | | | | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|---|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 336 | Argillaceous Dolostone
- Grey
- Very fine-grained
- Thinly laminated
- Some fibrous gypsum veins
- Trace amounts of anhydrite veins
- Blocky | CR-119 | | | | | | DGR1-336.08-GM-PL
DGR1-336.17-GM-PL | -150 |
| 337 | | | | | | | | | -151 |
| 338 | Argillaceous Dolostone
- Grey/dark grey
- Very fine-grained calcareous dolostone
- Thinly laminated
- Trace thin white anhydrite/gypsum veins
- Blocky | 337.82 | | | | | | DGR1-337.63-AR | -152 |
| 339 | | CR-120 | | | | | | | -153 |
| 340 | | | | | | | | | -154 |
| 341 | Argillaceous Dolostone
- Grey/dark grey
- Fine-grained
- Trace bituminous laminations
- Thin white anhydrite/gypsum veins
- Abundantly vuggy calcareous dolostone from 342.0-342.5
- Blocky | 340.87 | | | | | | DGR1-340.62-GM-PL
DGR1-340.69-GM-PL
DGR1-340.82-GM-PS | -155 |
| 342 | | CR-121 | | | | | | | -156 |
| 343 | | | | | | | | | -157 |
| 344 | Argillaceous Dolostone
- Grey
- Fine-grained
- Trace thin bituminous laminations (locally dense)
- Fibrous gypsum veins (2-30mm thick)
- Artificial breaks along gypsum seams
- Blocky | 343.92 | | | | | | DGR1-343.49-NG-UO | -158 |
| 345 | | CR-122 | | | | | | | -159 |
| 346 | | | | | | | | | -160 |
| 347 | Argillaceous Dolostone
- Grey
- Fine-grained
- Thin bituminous laminae (locally dense)
- Trace anhydrite veins (1-3mm thick)
- Blocky | 346.97 | | | | | | DGR1-346.55-GM-PL | -161 |
| 348 | | CR-123 | | | | | | DGR1-347.80-AR | -162 |
| | | | | | | | | | -163 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |


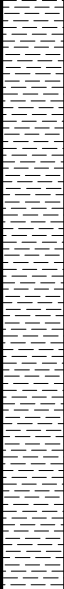
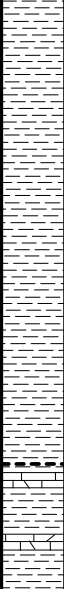

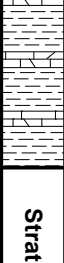
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | | | | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|--|--|--|-------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | | | | | | |
| 349 | Argillaceous Dolostone
- Grey
- Fine-grained
- Thin bituminous laminae
- Trace anhydrite
- Blocky | 350.02 | | | | | | DGR1-351.37-GM-PL | -164 | | | | | |
| 350 | | CR-124 | | | | | | | | | | | | -165 |
| 351 | | | | | | | | | | | | | | |
| 352 | | | | | | | | | | | | | | |
| 353 | Argillaceous Dolostone
- Grey
- Fine-grained
- Finely laminated bituminous layers throughout
- Minor diskings of core at 356.0
- Fractured | 353.07 | | | | | | | -167 | | | | | |
| 354 | | CR-125 | | | | | | | | | | | DGR1-354.02-GM-PS | -168 |
| 355 | | | | | | | | | | | | | | |
| 356 | Argillaceous Dolostone
- Grey
- Fine to very fine-grained
- Finely laminated horizontal bituminous layers throughout
- Trace anhydrite
- Blocky | 356.12 | | | | | | | -169 | | | | | |
| 357 | | CR-126 | | | | | | | | | | | DGR1-357.42-GM-PL | -170 |
| 358 | | | | | | | | | | | | | | |
| 359 | Argillaceous Dolostone
- Grey
- Very fine-grained
- Thinly laminated black bituminous layers throughout
- Anhydrite layers
- Minor mottled texture at 362.0
- Blocky | 359.17 | | | | | | | -171 | | | | | |
| 360 | | CR-127 | | | | | | | | | | | DGR1-358.92-AR | -172 |
| 361 | | | | | | | | | | | | | | |
| 362 | | 362.22 | | | | | | DGR1-359.97-GM-PL | -173 | | | | | |
| 362 | | | | | | | | DGR1-361.76-MN | -174 | | | | | |
| 362 | | | | | | | | | -175 | | | | | |
| 362 | | | | | | | | | -176 | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | | | | | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 363 | Argillaceous Dolostone
- Grey/brown
- Very fine-grained
- Anhydrite layers
- Thinly laminated with bituminous layers
- Pitted, vuggy porosity at 363.0-364.4 with petroliferous odour
- Fractured | CR-128 | | | | | | | -177 |
| 364 | | 365.27 | | | | | | | |
| 365 | Argillaceous Dolostone
- Dark brown/grey
- Fine-grained
- Thin black bituminous layers
- Anhydrite layers
- Petroliferous from 365.3-365.7
- Blocky | CR-129 | | | | | | | -179 |
| 366 | | 367.00 | | | | | | | |
| 367 | Salina Formation - A1 Unit - Evaporite
- Mottled to thinly bedded light grey/blue anhydrite and brown dolostone | CR-130 | | | | | | DGR1-367.06-GM-CAN | -181 |
| 368 | | | | | | | | 368.32 | |
| 369 | Anhydritic Dolostone
- Blue/grey anhydrite with grey/brown dolostone
- Anhydrite layers <= 4 cm thick | CR-130 | | | | | | DGR1-367.56-GM-PL | -182 |
| 370 | | | | | | | | 370.50 | |
| 371 | Salina Formation - A0 Unit
- Dark brown to black, very fine-grained, thinly laminated, bituminous dolostone | CR-131 | | | | | | DGR1-368.14-NG-UB | -184 |
| 372 | | | | | | | | 371.37 | |
| 373 | Dolostone
- Grey/tan
- Very fine-grained dolostone
- Abundant very thin shale laminae
- Bedding planes core axis angle decreases from 90 to 60 degrees at the bottom of the core run
- Solid | CR-131 | | | | | | DGR1-370.14-GM-PL | -186 |
| 374 | | | | | | | | 374.42 | |
| 375 | Guelph Formation
- Brown, fine to medium-grained vuggy dolostone | CR-131 | | | | | | DGR1-370.93-NG-UO | -188 |
| 376 | | | | | | | | 374.50 | |
| 375 | Dolostone
- Grey/brown
- Sucrosic dolomite
- Fine to medium-grained | CR-131 | | | | | | DGR1-375.26-GM-PL | -190 |
| 376 | | | | | | | | 376.00 | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 377 | - Mixed with medium grey dolostone
- Abundantly vuggy
- Vugs filled with calcite and brown sucrosic dolomite
- Blocky | 377.47 | | | | | | | -191 |
| 378 | | 378.60 | | | | | | | -192 |
| 379 | Goat Island Formation
- Light to dark grey/brown, very fine-grained dolostone | CR-133 | | | | | | | -193 |
| 380 | Dolostone
- Porous, medium dark brown or grey vuggy filled with sucrosic dolomite to 380.1
- Grey, massive bedded, very fine-grained, 380.1-380.5
- Localized bituminous laminae
- Trace stylonite
- Massive | 380.52 | | | | | | DGR1-380.38-GM-PL
DGR1-380.47-GM-PL | -194
-195 |
| 381 | Dolostone
- Grey
- Massive bedded, very fine-grained
- Dark grey irregular shale laminae
- Microstylonites and small clasts <2-3mm
- Massive | CR-134 | | | | | | DGR1-381.75-AR | -196 |
| 382 | | | | | | | | | -197 |
| 383 | | 383.57 | | | | | | DGR1-383.28-GM-PL | -198 |
| 384 | Dolostone
- Grey
- Massive bedded, very fine-grained
- Localized bituminous laminae
- Trace stylonite
- Massive | | | | | | | | -199 |
| 385 | | CR-135 | | | | | | | -200 |
| 386 | | 386.62 | | | | | | DGR1-386.19-GM-PL
DGR1-386.28-GM-PL
DGR1-386.55-GM-CAN | -201 |
| 387 | Dolostone
- Grey
- Massive bedded, fine to very fine-grained
- Trace bituminous laminae throughout
- Trace small vugs
- Massive | | | | | | | | -202 |
| 388 | | CR-136 | | | | | | DGR1-388.24-AR | -203 |
| 389 | | 389.67 | | | | | | | -204 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|--|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 390 | Dolostone
- Grey/light grey
- Massive bedded, fine to very fine-grained
- Localized bituminous laminae
- Massive | CR-137 | | | | | | DGR1-391.24-GM-PL | -205 |
| 391 | | | | | | | | | |
| 392 | | | | | | | | | |
| 393 | | | | | | | | | |
| 394 | Dolostone
- Grey/light grey
- Massive bedded, fine to very fine-grained
- Localized bituminous laminae
- Massive | CR-138 | | | | | | DGR1-394.66-GM-PL
DGR1-394.83-GM-PS | -209 |
| 395 | | | | | | | | DGR1-395.20-GM-PL
DGR1-395.29-NG-UO | -210 |
| 396 | Dolostone
- Grey/light grey
- Fine to very fine-grained
- Increasing microstylolites with depth
- Massive | CR-139 | | | | | | | -211 |
| 397 | | 397.40 | | | | | | | |
| 398 | Gasport Formation
- Blue/white/grey, fine to coarse-grained dolomitic limestone | CR-140 | | | | | | DGR1-398.08-NG-UB | -212 |
| 399 | Dolomitic Limestone
- Light/medium grey
- Fine to very fine-grained, trace bituminous laminae and microstylolites
- Blocky | | | | | | | | |
| 400 | | | | | | | | DGR1-399.85-MN | -214 |
| 401 | | | | | | | | | -215 |
| 402 | Dolomitic Limestone
- Tan/grey
- Coarse-grained, chert rich
- Trace argillaceous dolostone layers
- Trace stylolites
- Blocky | CR-141 | | | | | | DGR1-401.35-GM-PL
DGR1-402.00-AR | -216 |
| 403 | | | | | | | | | -217 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 404 | | 404.25 | | | | | | | -218 |
| 405 | Lions Head Formation
- Light grey to grey/brown, fine to very fine-grained dolostone | 404.92 | | | | | | | -219 |
| 406 | Dolostone
- Light/medium grey, fine to very fine-grained to 405.4
- Tan/grey, medium to coarse-grained, mottled texture, trace argillaceous dolostone layers, below 405.4
- Blocky | 407.97 | CR-142 | | | | | DGR1-406.32-GM-PS | -221 |
| 407 | | | | | | | | DGR1-406.95-GM-PL | -222 |
| 408 | | 408.70 | | | | | | | -223 |
| 409 | Fossil Hill Formation
- Light to medium brownish grey, coarse-grained dolostone with stylolites
- Massive | 411.02 | CR-143 | | | | | | -224 |
| 410 | | | | | | | | DGR1-410.33-GM-PL | -225 |
| 411 | Cabot Head Formation
- Green and red shale grading to interbedded fossiliferous grey carbonate and shale | 411.02 | | | | | | | -226 |
| 412 | Shale
- Massive bedded, grey/green shale to 411.60
- Massive bedded, red/maroon shale below 411.60
- With grey/green shale clasts
- Solid | 414.07 | CR-144 | | | | | DGR1-411.94-GM-SL | -227 |
| 413 | | | | | | | | DGR1-412.57-AR | -228 |
| 414 | | | | | | | | | -229 |
| 415 | Shale
- Massive bedded, red/maroon shale
- With grey/green shale clasts and inclusions at 414.5, 415.3, 416.0 and 416.5
- Massive | | CR-145 | | | | | DGR1-415.16-GM-CAN | -230 |
| 416 | | | | | | | | DGR1-416.09-GM-PL | -231 |
| 417 | | | | | | | | DGR1-416.95-GM-PL | -231 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | |
|--------------|---|-----------------|---|---------------|---------|------------------|-----------------|-------------------|--|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | |
| 418 | Shale
- Massive bedded, red/maroon shale
- With grey/green shale clasts at 417.5 and 417.8
- Blocky | CR-146 |  | | | | | DGR1-417.01-GM-PL | -232 | |
| 419 | | 420.17 | | | | | | | | -233 |
| 420 | Shale
- Massive bedded, red/maroon shale
- Shale
- Solid | CR-147 |  | | | | | DGR1-419.99-MN | -234 | |
| 421 | | | | | | | | | | -235 |
| 422 | | | | | | | | | DGR1-421.90-GM-PL
DGR1-422.19-NG-UB
DGR1-422.29-GM-PL
DGR1-422.40-NG-UO | -236 |
| 423 | | | | | | | | | DGR1-422.97-NG-UB | -237 |
| 424 | Shale
- Massive bedded, grey/green
- Layers of red/maroon shale
- Trace grey dolomitic shale layers (<5cm)
- Massive | CR-148 |  | | | | | | -238 | |
| 425 | | | | | | | | | DGR1-424.18-GM-SL
DGR1-424.44-AR | -239 |
| 426 | | | | 425.84 | | | | | | -240 |
| 427 | Interbedded Shale and Carbonate Beds
- Interbedded grey carbonate and green shale
- Increasing medium grey dolomitic shale layers present with depth
- Massive | CR-149 |  | | | | | | -241 | |
| 428 | | | | | | | | | | -242 |
| 429 | Interbedded Shale and Carbonate Beds
- Greenish grey to reddish green shale
- Coarse-grained light grey sandstone and carbonate interbeds
- Brachiopods at 430.6, 431.5 and 432.3 | C |  | | | | | | -243 | |
| 430 | | | | 429.32 | | | | | DGR1-429.33-GM-PL | -244 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |
| 431 | Interbedded Shale and Carbonate Beds
- Carbonate interbeds (1 to >10cm) with chert
- Light to medium grey
- Medium to coarse-grained
- Significant amount of silicified shell fragments
- Solid | R-150 | | | | | | DGR1-430.92-GM-PL | -245 |
| 432 | | 432.37 | | | | | | DGR1-432.20-GM-PL | -246 |
| 433 | | | | | | | | DGR1-433.03-AR | -247 |
| 434 | | CR-151 | | | | | | DGR1-434.24-GM-SL | -248 |
| | | 434.80 | | | | | | | -249 |
| 435 | Manitoulin Formation
- Grey, very fine to medium-grained, fossiliferous, mottled argillaceous to non-argillaceous dolostone with grey/green shale interbeds and chert layers/nodules | 435.42 | | | | | | | -250 |
| 436 | Argillaceous Dolostone
- Mottled fine to medium-grained grey/green argillaceous dolostone interbedded with depth with fine to medium-grained thin grey dolostone and thin green shale beds
- Some chert nodules
- Blocky | CR-152 | | | | | | | -251 |
| 437 | | | | | | | | | -252 |
| 438 | 438.14 | | | | | | | DGR1-438.10-GM-CAN | -253 |
| 439 | Interbedded Shale and Dolostone
- Light grey/grey
- Fine to medium-grained dolostone and interbeds/laminae of green shale (decrease in abundance with depth)
- Blocky
- Chert-rich zones and bituminous laminations
- Trace silicified shell fragments | 438.47 | | | | | | CR-153 | |
| 440 | | | -255 | | | | | | |
| 441 | 440.57 | | -256 | | | | | | |
| 442 | Cherty Dolostone
- Light grey to blueish, tan/grey with depth
- Very coarse-grained, mottled texture, cherty
- Stylolites and silicified shell fragments throughout
- Blocky | 441.52 | CR-154 | | | | | | -257 |
| 443 | | | | | | | | DGR1-443.10-GM-PS | -258 |
| 444 | | | | | | | | | -259 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0-----90 | | |

| Depth (mBGS)
1m:40m | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery
100 % 0 | R.Q.D.
100 % 0 | Nat. Frac. Freq.
0 /m 10 | Core Axis Angle
0-----90 | Sample ID # | Elev. (mASL) |
|------------------------|--|-----------------|--------------|--------------------------|-------------------|-----------------------------|-----------------------------|--------------------|-------------------|
| 445 | Interbedded Dolostone and Shale
- Tan fine-grained dolostone interlaminated with grey/green shale
- Increasing shale with depth
- Closed subvertical fracture at 445.2
- Blocky | 444.57 | | | | | | DGR1-445.49-NG-UB | -259 |
| 446 | | 447.65 | | | | | | CR-155 | DGR1-445.60-PW-UO |
| 447 | | 447.62 | | | | | | DGR1-446.25-MN | -261 |
| 448 | Queenston Formation
- Red to maroon, massive bedded, calcareous to non-calcareous shale with subordinate interbeds of green shale and grey/brown carbonates and siltstone

Shale
- Massive bedded red calcareous shale
- Trace amounts of green calcareous shale
- Massive | 450.67 | | | | | | DGR1-446.40-GM-PL | -261 |
| 449 | | 451.39 | | | | | | CR-156 | DGR1-446.92-AR |
| 450 | | 453.72 | | | | | | DGR1-449.30-AR | -263 |
| 451 | Shale
- Massive bedded red/maroon calcareous shale
- Grey/green calcareous shale interbeds
- Hard
- Core breaks while drying
- Solid | 456.77 | | | | | | DGR1-449.37-GM-PL | -264 |
| 452 | | 457.57 | | | | | | CR-157 | DGR1-450.45-NG-UB |
| 453 | | | | | | | | DGR1-451.39-MSC | -266 |
| 454 | Shale
- Massive bedded red/maroon calcareous shale
- Grey/green calcareous shale mottles/diffuse layers and nodules
- Three closely spaced inclined fractures at 456.0-456.2 with orange halite infilling
- Massive | 456.77 | | | | | | DGR1-454.82-DF-UNB | -268 |
| 455 | | 457.57 | | | | | | CR-158 | DGR1-455.07-NG-UO |
| 456 | | | | | | | | DGR1-455.22-GM-CAN | -270 |
| 457 | Shale
- Massive bedded red/maroon calcareous shale
- Grey/green calcareous shale layers
- Solid | | | | | | | DGR1-455.45-MN | -271 |
| 457 | | | | | | | | | DGR1-456.01-MN |
| 457 | | | | | | | | DGR1-457.57-GM-PL | -272 |
| Depth (mBGS)
1m:40m | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery
100 % 0 | R.Q.D.
100 % 0 | Nat. Frac. Freq.
0 /m 10 | Core Axis Angle
0-----90 | Sample ID # | Elev. (mASL) |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
|--------------|--|-------------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | |
| 458 | Shale
- Grey/green calcareous shale layers of (1-5cm) grade into and out of red/maroon calcareous shale
- Solid | CR-159 | | | | | | DGR1-459.27-MSC | -273 |
| 459 | | 459.82 | | | | | | DGR1-459.62-NG-UO | -274 |
| 460 | | CR-160 | | | | | | DGR1-460.41-GM-CAN | -275 |
| 461 | | | | | | | | DGR1-460.77-MN | -275 |
| 462 | | | | | | | | DGR1-461.66-AR | -276 |
| | | | | | | | | DGR1-461.91-GM-SL | -276 |
| | | | | | | | | DGR1-462.49-GM-PL | -277 |
| | 462.87 | DGR1-462.64-NG-UB | -277 | | | | | | |
| 463 | END OF HOLE 462.87 | | | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID # | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 10 | 0 ----- 90 | | |

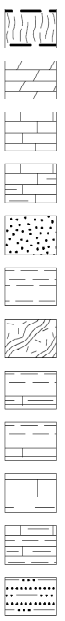





Prepared by: MAM
 Checked by: ADW
 KGR

Doc. TR-07-06_DGR1_R2



APPENDIX D
DGR-2 Borehole Log

DGR-2 Borehole Log Legend

| <u>Stratigraphic Legend</u> | <u>Contact Legend</u> | <u>Core Log Legend</u> |
|--|---|---|
|  <ul style="list-style-type: none"> Ash Dolostone Limestone Argillaceous Limestone Sandstone Shale Granite Gneiss Interbedded Shale and Argillaceous Limestone Interbedded Shale and Limestone Interbedded Shale and Limestone/Siltstone Interbedded Argillaceous Limestone and Shale Interbedded Siltstone and Sandstone | <ul style="list-style-type: none">  Casing  End of Borehole  Formation Contact  Ground Surface  Stratigraphic Contact | <ul style="list-style-type: none"> mBGS Meters Below Ground Surface mASL Meters Above Sea Level R. Q. D. Rock Quality Designation Nat. Frac. Freq. Natural Fracture Frequency NC Rotary Drilled (No Core) CR Core Run |
| <u>Sample Legend</u> | | |
| <ul style="list-style-type: none"> AR Archive - INTERA DF-NWMO Diffusion Testing - UNB (NWMO) DF-PSI Diffusion Testing - PSI DF-UNB Diffusion Testing - UNB GM-AB Abrasive Index - Laurentian University GM-CAN Geomechanical Testing - CANMET GM-PL Geomechanical Point load Testing - INTERA GM-PS Geomechanical P&S Testing - INTERA GM-SL Geomechanical Slake Durability - INTERA GM-SW Swell Test - UWO | <ul style="list-style-type: none"> MN Mineralogy - Actlabs MSC Miscellaneous Core Sample NG-UB Noble Gases - Unibern PT Petrophysics - Core Labs PW-UB Pore Water - Unibern PW-UNB Pore Water - UNB PW-UO Pore Water - U of O | |

Core Logging Notation

1) Colour: (i.e. light/medium/dark grey, blue-grey, red-green, etc.)

| Additional Adjectives | Description |
|-----------------------|--|
| Banded | Approximately parallel bands of varying colour |
| Streaked | Randomly oriented streaks of colour |
| Blotched | Large irregular patches of colour (>75mm diameter) |
| Mottled | Irregular patches of colour |
| Speckled | Very small patches of colour (<10 mm diameter) |
| Stained | Local colour variations associated with other features (i.e. bedding joints, etc.) |

2) Grain Size/Texture:

| Classification | Grain Size Measurement | Field Recognition | Equivalent Soil Type |
|---------------------|------------------------|---|----------------------|
| Very fine-grained | <0.06 mm | Individual grains cannot be seen with a hand lens | Clays and silts |
| Fine-grained | 0.06 to 0.25 mm | Just visible as individual grains under hand lens | Fine sand |
| Medium-grained | 0.25 to 0.5 mm | Grains clearly visible under hand lens; just visible to naked eye | Medium sand |
| Coarse-grained | 0.5 to 2.0 mm | Grains clearly visible to the naked eye | Coarse sand |
| Very coarse grained | >2.0 mm | Gains measurable | gravel |

3) Rock Hardness

| Classification | Description |
|----------------|---|
| Very Soft | Can be peeled with a knife |
| Soft | Can be easily gouged or carved with a knife |
| Medium soft | Can be readily scratched with a knife blade; scratch leaves heavy trace of dust and is readily visible after powder blown away. |
| Hard | Can be scratched with a knife with difficulty; scratch produces little powder and is often faintly visible |
| Very Hard | Cannot be scratched with a knife or can barely be scratched with a knife |

4) Bedding Thickness:

| Classification | Bedding Thickness |
|----------------|-------------------|
| Massive Bedded | >3 m or Uniform |
| Thickly Bedded | 300 mm to 3 m |
| Medium Bedded | 100 to 300 mm |
| Thinly Bedded | 10 to 100 mm |
| Laminated | <10 mm |

5) Solution and Void Conditions (if notable)

| Classification | Condition |
|----------------|-------------------------------------|
| Solid | No voids |
| Porous | Voids <1.0 mm in diameter |
| Pitted | Voids 1 to 6 mm in diameter |
| Vuggy | Voids 6 mm to diameter of core |
| Cavity | Voids greater than diameter of core |

6) Quantification of Secondary Features: When describing additional features in the core, the following adjectives should be used which are related to the % volume or frequency of the feature.

| Adjective | %Volume / frequency |
|---------------------------------|------------------------|
| Slightly/trace | 1-10%, 1-2 occurrences |
| Moderately/some | 10-20% |
| Abundantly/ "___y" (ie. shaley) | 20-35% |
| and | >35%, half and half |

7) Summary of Rock Quality Descriptions and Discontinuity Logging

| RQD (%) | Core Quality Description | Natural Fracture Frequency (/m) | Formation Fracture Description |
|---------|--------------------------|---------------------------------|--------------------------------|
| 0-25 | Very Poor | >10 | Highly Fractured |
| 25-50 | Poor | >1.0-10 | Moderately Fractured |
| 50-75 | Fair | 0.5-1.0 | Sparsely Fractured |
| 75-90 | Good | <0.5 | Very Sparsely Fractured |
| 90-100 | Excellent | 0 | Unfractured |

8) Bedding or Fracture Inclination (measured from horizontal)

| Classification | Attitude |
|----------------------|------------------|
| Flat | 0 to 5 degrees |
| Gently dipping | 5 to 20 degrees |
| Moderately dipping | 20 to 45 degrees |
| Steeply dipping | 45 to 85 degrees |
| Very steeply dipping | 85 to 90 degrees |

9) Degree of Fracturing/Jointing (Structure)

| Rock Mass Classification | Discontinuity Spacing |
|--------------------------|-----------------------|
| Solid | >3 m |
| Massive | 1 to 3 m |
| Blocky/seamy | 0.3 to 1 m |
| fractured | 5 to 30 cm |
| Crushed / shattered | < 5 cm |

10) Roughness of Fracture (Structure)

| Classification | Description |
|----------------|--|
| Smooth | Appears smooth and is essentially smooth to the touch. |
| Rough | Bumps/roughness on the fracture surfaces are visible and can be distinctly felt. |
| Slickensided | Clear evidence of previous shear displacement along the discontinuity. |
| Stepped | Surface of discontinuity appears stepped with some ridges or angular "steps". |
| Undulating | Surface of discontinuity appears wavy, with no sharp steps. |
| Planar | Surface of discontinuity appears flat. |

11) Infilling of Fracture (Structure)

| Classification | Description |
|----------------|---|
| Clean | No filling material |
| Stained | Colouration of rock surface only, no recognizable filling material |
| Filled | Fracture observed with filling material (describe filling material) |

12)Reference Terms:

Layer : Distinct length of core that is distinguished from surrounding core by feature (colour, composition, etc.) other than bedding planes.

Irregular : Bedding plane surfaces are not planar but are convoluted/disturbed.

Planar : Bedding planes are flat.

Bituminous : Contains organic matter.

Vein : Fracture totally infilled with mineral different from surrounding rock.

Argillaceous : Rock has mud dispersed in the matrix but not as distinct laminae or beds (e.g. argillaceous limestone).

Shaley : Rock that has distinct shale laminae beds (e.g. shaley limestone).

Petroliferous Odour : Only hydrocarbon odour; no noted liquid hydrocarbons.

Petroliferous : Liquid hydrocarbons noted.

Hydrocarbon Adjectives

Strongly/heavily : intense hydrocarbon odour / core exuding significant volume of oil / core coated with oil.

Slight/lightly : Slight hydrocarbon odour / few drops of oil.

No modifier : Moderate odour / Moderate amount of hydrocarbon exuded

Rock Quality Designation (RQD, %) : RQD values determined for the 76 mm diameter core from DGR-1 and DGR-2 were determined as the sum of lengths of core greater than 15 cm length (i.e., twice the core diameter) excluding drilling-induced breaks, divided by length of hole drilled per core run.

RECORD OF BOREHOLE - DGR-2



| | |
|--|--|
| Project : DGR Site Characterization | Borehole Specs.: Outside borehole Diameter, 159mm, Core Diameter 76mm |
| Project Number: 06.219.30.10.10 | Date Started: April 14, 2007 |
| Client: Ontario Power Generation | Date Completed: August 3rd, 2007 |
| MNR WL No.: 11583 | Supervisor: Ken Raven, Sean Sterling |
| Site Location: Tiverton Ontario, Canada | Reference Surface Elevation: 185.836 mASL |
| Coordinates: NAD 83, UTMZone 17N
4907720.300 N, 454208.921 E | Drill Company: Davidson Drilling Limited, Wingham, Ontario, Canada |
| | Drill Rig: Versa-Drill (model: V2000NG, 2006) |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 444 | Borehole Summary
- A 610mm diameter borehole was rotary drilled through the overburden into competent bedrock to 23.4
- A 508mm diameter steel casing was cemented to 23.4
- Competent bedrock was located at approximately 19.5
- A 445mm diameter borehole was rotary drilled to 189.2, approximately 10.6m into the Salina Formation - F Unit Shale
- A 340mm diameter steel casing was cemented to a depth of 189.2
- A 318mm diameter borehole was rotary drilled to 450.7, approximately 3.0m into the Queenston Formation
- A 245mm steel casing was cemented to a depth of 450.7
- Double tube continuous coring was completed from the Queenston Formation to a final depth of 862.25 located in the Precambrian Formation
- Double tube coring being utilized in this project produces a 159mm diameter borehole and a 76mm diameter core | | | | | | | | -502 |
| 445 | | | | | | | | | -501 |
| 446 | | | | | | | | | -500 |
| 447 | | 447.65 | | | | | | | -499 |
| 448 | Queenston Formation
- Red to maroon, massive bedded, calcareous to non-calcareous shale with subordinate interbeds of green shale and grey/brown carbonates and siltstone | | | | | | | | -498 |
| 449 | | | | | | | | | -497 |
| 450 | Intermediate Casing #2 [9 5/8 (inch) or 245 (mm)] | 450.70 | | | | | | | -496 |
| 451 | Open Borehole [6 1/4 (inch) or 159 (mm)] | 450.88 | | | | | | | -495 |
| 452 | Shale
- Massive bedded, red/maroon calcareous shale with green shale layers
- Massive
- Medium soft | | CR-1 | | | | ▲ | DGR2-451.33-MN | -495 |
| 453 | | | | | | | | DGR2-452.10-GM-PS | -494 |
| 454 | Shale
- Massive bedded, red/maroon calcareous shale with green shale layers
- Closed vertical fracture filled with orange halite (?) over majority of core length
- Medium soft
- Fractured | 453.80 | | | | | | DGR2-453.95-PW-UO | -492 |
| 455 | | | CR-1 | | | | ▲ | DGR2-455.32-AR | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|-------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 456 | | | | | | | | | -491 |
| 457 | Shale
- Massive bedded, red/maroon calcareous shale with green shale layers (1-10cm thick)
- Medium soft
- Fractured to blocky | 456.85 | CR-3 | | | | | DGR2-456.97-DF-PSI | -490 |
| | | | | | | | | DGR2-457.21-GM-CAN | -489 |
| 458 | | | | | | | | DGR2-457.66-PT | -488 |
| 459 | | | | | | | | DGR2-458.46-GM-PS | -488 |
| 460 | | | | | | | | DGR2-458.56-GM-PL | -487 |
| 461 | Shale
- Massive bedded, red/maroon calcareous shale with green shale layers
- Two closed halite infilled fractures at 460.8 and 461.1
- Medium soft
- Blocky | 459.90 | CR-4 | | | | | DGR2-458.62-GM-PL | -486 |
| 462 | | | | | | | | DGR2-461.36-GM-PL | -485 |
| 463 | | | | | | | | DGR2-461.75-PW-UB | -484 |
| 464 | | | | | | | | DGR2-462.60-GM-PS | -483 |
| 465 | Shale
- Massive bedded, red/maroon calcareous shale with gently dipping mottled grey/green shale
- Medium soft
- Massive | 462.95 | CR-5 | | | | | | -482 |
| 466 | | | | | | | | | DGR2-465.44-GM-PS |
| 467 | Shale
- Massive bedded, red/maroon calcareous shale with grey/green shale layers/mottles
- Core breaks on/at grey/green shale layers
- Healed fracture with halite infilling at 468.0
- Light pink anhydrite/gypsum nodules at 468.5
- Medium soft
- Massive | 466.00 | CR-6 | | | | | DGR2-466.38-AR | -480 |
| 468 | | | | | | | | | DGR2-467.17-GM-SL |
| | | | | | | | | DGR2-468.08-GM-PL | -478 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
|--------------|---|--|--------------|---------------|---------|------------------|-------------------|-------------------|--------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |
| 469 | Shale
- Massive bedded, red/maroon calcareous shale with grey/green shale layers/mottles
- Grey/green shale content increasing with each core run
- Increasing abundance of anhydrite nodules
- Core breaks at/in grey/green layers
- Pink/orange anhydrite/gypsum nodule layer at 472.0
- Medium soft
- Massive | 469.05 | | | | | | | -477 | |
| 470 | | CR-7 | | | | | | DGR2-470.02-GM-PS | -476 | |
| 471 | | | | | | | | DGR2-470.74-AR | -475 | |
| 472 | | 472.10 | | | | | | | -474 | |
| 473 | | Shale
- Massive bedded, red/maroon calcareous shale with grey/green shale layers/mottles
- Pink/orange anhydrite nodules in grey/green shale
- Medium soft
- Massive | | CR-8 | | | | | DGR2-473.00-PW-UB | -473 |
| 474 | | | | | | | | | DGR2-473.26-NG-UB | -473 |
| 475 | | | | | | | | | DGR2-473.41-GM-PS | -473 |
| 476 | | | | | | | | | DGR2-473.76-GM-PL | -472 |
| 477 | | Shale
- Massive bedded, red/maroon calcareous shale with some grey/green shale layers/mottles
- Light grey siltstone/limestone layers at 475.6 and 477.1
- Anhydrite/gypsum nodules
- Medium soft
- Blocky | | CR-9 | | | | | DGR2-474.71-GM-CAN | -472 |
| 478 | | | | | | | | | DGR2-475.00-AR | -471 |
| 479 | | | | | | | | DGR2-476.11-AR | -470 | |
| 480 | | | | | | | | DGR2-477.69-GM-PS | -469 | |
| 481 | Shale
- Massive bedded, red/maroon calcareous shale with some grey/green shale layers/mottles
- Thin interbeds of grey/green shale with red/maroon shale at (481.0-481.7), showing minor disking into 5-10cm pieces
- Trace amounts of anhydrite/gypsum nodules
- Massive bedded grey/green shale below 481.7
- Medium soft
- Blocky | CR-10 | | | | | | -468 | | |
| 482 | | | | | | | DGR2-479.28-GM-PL | -467 | | |
| 483 | | | | | | | DGR2-479.53-AR | -467 | | |
| 484 | | | | | | | DGR2-479.81-GM-PS | -466 | | |
| 481 | 481.25 | 481.25 | | | | | | | | |
| 482 | Interbedded Shale and Limestone
- Green shale interbedded with medium to light grey, medium to coarse-grained fossiliferous limestone
- Brachiopod and other fossils evident on core breaks at 482.2
- Medium soft (shale) to hard (limestone)
- Blocky | | | | | | | -465 | | |
| 483 | | | | | | | | DGR2-482.45-MN | -464 | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------------------------|--|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |
| 483 | <p>Interbedded Shale and Limestone</p> <ul style="list-style-type: none"> - Green shale interbedded with medium to light grey, medium to coarse-grained fossiliferous limestone - Gradational change into red/maroon calcareous shale with some grey/green shale layers/mottles at 484.8 - Increasing green shale content and trace thin limestone interbeds (<1cm) at 486.3 - Medium soft (shale) to hard (limestone) - Massive <p>Interbedded Shale and Limestone</p> <ul style="list-style-type: none"> - Green shale interbedded with medium to light grey, medium to coarse-grained fossiliferous limestone with silicified shell fragments - Localized red maroon shale layers/mottles - Abundant fossils at 487.3 to 487.7 - Medium soft (shale) to hard (limestone) - Blocky <p>Interbedded Shale and Limestone</p> <ul style="list-style-type: none"> - Green shale interbedded with medium to light grey, medium to coarse-grained fossiliferous limestone (>10cm) with silicified shell fragments - Mottled texture throughout - Massive - Medium soft (shale) to hard (limestone) <p>Interbedded Shale and Limestone</p> <ul style="list-style-type: none"> - Green shale with limestone interbeds - Core dropped out of core barrel during retrieval and was redrilled resulting in limited recovery - Medium soft (shale) to hard (limestone) | CR-11 | | | | | | DGR2-482.69-AR
DGR2-482.94-GM-SL | -463 | |
| 484 | | | 484.30 | | | | | | DGR2-483.49-GM-PL
DGR2-483.78-GM-PL | -462 |
| 485 | | | | | | | | | DGR2-484.69-GM-PL
DGR2-484.76-GM-PL | -461 |
| 486 | | | CR-12 | | | | | | DGR2-485.14-GM-PS
DGR2-485.40-PW-UO
DGR2-485.69-GM-PS | -460 |
| 487 | | | | | | | | | DGR2-486.01-AR
DGR2-486.36-AR | -459 |
| 488 | | | 487.35 | | | | | | | -458 |
| 489 | | | CR-13 | | | | | | DGR2-488.51-PT
DGR2-488.70-AR | -457 |
| 490 | | | | | | | | | DGR2-489.29-GM-PS | -456 |
| 491 | | | 490.40 | | | | | | DGR2-490.54-PW-UB | -455 |
| 492 | | | CR-14 | | | | | | DGR2-491.12-GM-PL
DGR2-491.21-GM-PL
DGR2-491.32-GM-CAN | -454 |
| 493 | | | | | | | | | DGR2-491.83-PW-UB
DGR2-492.17-DF-UNB
DGR2-492.44-NG-UB | -453 |
| 494 | | | 493.45 | | | | | | DGR2-492.84-GM-PS
DGR2-493.10-MSC | -452 |
| 495 | | | CR-15 | | | | | | | -451 |
| 1m:40m | | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (MASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|-------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 496.50 | Interbedded Shale and Limestone
- Green shale with thin limestone interbeds
- Core dinking into 5-10cm pieces at shale layers
- Medium soft (shale) to hard (limestone)
- Blocky | 496.50 | | | | | | DGR2-497.33-GM-PL | -450 |
| | | | | | | | | DGR2-497.61-AR | -449 |
| 498 | Interbedded Shale and Limestone
- Green shale with light to medium grey limestone interbedded with bioclastic beds in limestone layers at 499.8, 501.2 and 502.0
- Core dinking, breaking into 5-10cm pieces on core table
- Blocky
- Medium soft (shale) to hard (limestone) | 499.55 | CR-16 | | | | | DGR2-498.72-GM-PL | -448 |
| 499 | | | | | | | | | DGR2-499.84-GM-PS |
| 500 | Interbedded Shale and Limestone
- Green shale with light to medium grey limestone interbedded with bioclastic beds in limestone layers at 499.8, 501.2 and 502.0
- Core dinking, breaking into 5-10cm pieces on core table
- Blocky
- Medium soft (shale) to hard (limestone) | 502.60 | CR-17 | | | | | DGR2-500.37-AR | -446 |
| 501 | | | | | | | | | |
| 502 | Interbedded Shale and Limestone
- Green shale interbedded with light to medium grey limestone
- Thicker limestone layers compared to previous cores
- Bioclastic beds in limestone layers at 504.0-507.7
- Fractured
- Medium soft (shale) to hard (limestone) | 505.65 | CR-18 | | | | | DGR2-502.78-GM-CAN | -444 |
| 503 | | | | | | | | | DGR2-503.45-GM-PL |
| 504 | Interbedded Shale and Limestone
- Green shale interbedded with light to medium grey limestone
- Massive red/maroon calcareous shale with grey/green shale layers/mottles at 507.30-508.6
- Blocky
- Medium soft (shale) to hard (limestone) | 508.70 | CR-19 | | | | | DGR2-503.87-GM-SL | -442 |
| 505 | | | | | | | | | DGR2-504.35-AR |
| 506 | Interbedded Shale and Limestone
- Green shale interbedded with light to medium grey limestone
- Massive red/maroon calcareous shale with grey/green shale layers/mottles at 507.30-508.6
- Blocky
- Medium soft (shale) to hard (limestone) | 507.30 | CR-19 | | | | | DGR2-505.15-GM-PS | -441 |
| 507 | | | | | | | | | |
| 508 | - Healed fracture with halite infilling at 508.6 | | | | | | | | -439 |
| 509 | Shale
- Red/maroon shale with grey/green shale layers/mottles
- Pink/orange anhydrite/gypsum nodules in grey/green shale
- Trace limestone beds
- Solid
- Medium soft | 508.70 | | | | | | DGR2-508.05-GM-PS | -438 |
| | | | | | | | | DGR2-508.26-GM-PL | -438 |
| | | | | | | | | DGR2-508.93-MN | -437 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (MASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|--|--|---------------------|---------------|---------|------------------|-----------------|-------------------|-------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 510 | <p>Shale</p> <ul style="list-style-type: none"> - Thinly interbedded red/maroon and green shale - Pink/orange anhydrite/gypsum nodules - Core dinking, breaking into 5-10cm pieces on core table - Solid - Medium soft | CR-20 | | | | | | DGR2-510.12-AR | -436 |
| 511 | | | | | | | | DGR2-511.53-GM-PL | |
| 512 | | CR-21 | | | | | | DGR2-511.92-GM-PS | -434 |
| 513 | | | | | | | | DGR2-512.38-AR | |
| 514 | | | | | | | | DGR2-513.35-PW-UO | |
| 515 | | CR-22 | | | | | | DGR2-514.90-GM-PL | -431 |
| 516 | | | | | | | | DGR2-515.01-PT | |
| 517 | | | | | | | | DGR2-515.68-AR | |
| 518 | | | | | | | | DGR2-515.94-AR | |
| 519 | | <p>Georgian Bay Formation</p> <ul style="list-style-type: none"> - Dark greenish/grey shale, interbedded (decreasing with depth) with grey limestone, sandstone, and siltstone, core dinking below ~ 530, sulfurous and petroliferous odour below 585 <p>Interbedded Shale and Limestone/Siltstone</p> <ul style="list-style-type: none"> - Green shale and thin interbeds of fossiliferous limestone, fine-grained sandstone/siltstone and minor red shale near top of run - Thin black shale stringers - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Solid | | | | | | CR-23 | DGR2-517.33-GM-PS |
| 520 | DGR2-517.67-GM-PL | | | | | | | | |
| 521 | CR-24 | | DGR2-517.96-DE-LUNB | -428 | | | | | |
| 522 | | | DGR2-518.78-GM-PS | | | | | | |
| 523 | | | DGR2-518.97-AR | | | | | | |
| | | | DGR2-519.25-PW-UB | | | | | | |
| | DGR2-519.61-GM-CAN | -427 | | | | | | | |
| | DGR2-519.93-GM-SL | | | | | | | | |
| | DGR2-520.15-GM-PL | -426 | | | | | | | |
| | DGR2-520.30-GM-PL | | | | | | | | |
| | DGR2-521.41-AR | -425 | | | | | | | |
| | DGR2-521.57-GM-PL | | | | | | | | |
| | DGR2-522.50-GM-PL | -424 | | | | | | | |
| | DGR2-522.99-AR | | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|--|--|--|---|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | |
| 524 | Interbedded Shale and Limestone/Siltstone
- Interbedded green shale and bioclastic/fossiliferous limestone (1-8cm)
- Medium soft (shale) and hard (limestone/sandstone/siltstone)
- Blocky | 523.95 | | | | | | DGR2-523.26-PW-UB | -423 | | | | | |
| | | | | | | | | | | | | | DGR2-523.51-NG-UB | |
| | | | | | | | | | | | | | DGR2-523.67-GM-PS | |
| 525 | | | | | | | | | | | | | DGR2-525.41-GM-PS | -421 |
| 526 | | | | | | | | | | | | | DGR2-525.92-GM-CAN | |
| | | | | | | | | | | | | | DGR2-526.27-AR
DGR2-526.44-GM-PS | -420 |
| 527 | Interbedded Shale and Limestone/Siltstone
- Interbedded dark grey/green shale and medium to light grey fossiliferous limestone and trace cross-bedded dark grey fine-grained sandstone
- Core diskings in core box forming 5-10cm pieces
- Medium soft (shale) and hard (limestone/sandstone/siltstone)
- Solid | 527.00 | | | | | | | -419 | | | | | |
| 528 | | | | | | | | | | | | | DGR2-528.15-GM-SL | -418 |
| 529 | | | | | | | | | | | | | DGR2-528.98-AR
DGR2-529.30-GM-PL | -417 |
| | | | | | | | | | | | | | DGR2-529.64-GM-PL | |
| 530 | Interbedded Shale and Limestone/Siltstone
- Interbedded dark grey to grey/green shale and lighter grey graded beds of fine to coarse-grained limestone/siltstone
- Fossiliferous grey limestone bed with green shale inclusions at 532.4-532.6
- Stylolites at 531.8
- Medium soft (shale) and hard (limestone/sandstone/siltstone)
- Massive | 530.05 | | | | | | | -416 | | | | | |
| 531 | | | | | | | | | | | | | DGR2-530.16-GM-PL
DGR2-530.73-AR | -415 |
| 532 | | | | | | | | | | | | | DGR2-531.64-GM-PL
DGR2-531.95-GM-PS | -414 |
| 533 | | | | | | | | | | | | | | -413 |
| 534 | Interbedded Shale and Limestone/Siltstone
- Interbedded dark grey/green shale and lighter grey graded beds of fine to coarse-grained fossiliferous limestone and siltstone
- Fossiliferous limestone beds at 533.5, 534.0, 534.9, 535.1 and 535.3
- Possible natural fracture in shale layer at 534.4
- Medium soft (shale) and hard (limestone/sandstone/siltstone)
- Blocky | 533.10 | | | | | | | -412 | | | | | |
| 534 | | | | | | | | | | | | | DGR2-533.94-GM-CAN
DGR2-534.22-GM-CAN | -412 |
| 535 | | | | | | | | | | | | | DGR2-534.93-PW-UNB
DGR2-535.08-DF-NWMO | -411 |
| | | | | | | | | | | | | | DGR2-535.56-MN
DGR2-535.70-GM-PL | -411 |
| 536 | | | | | | | | | | | | | | -410 |
| 536 | | 536.15 | | | | | | | -410 | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|---|--|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |
| 537 | <p>Interbedded Shale and Limestone/Siltstone</p> <ul style="list-style-type: none"> - Interbedded dark grey/green shale and some lighter grey graded beds of fine to coarse-grained limestone/siltstone - Fossiliferous limestone beds at 537.0, 537.3 and 539.0 - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Massive <p>Interbedded Shale and Limestone/Siltstone</p> <ul style="list-style-type: none"> - Interbedded dark grey/green shale and fine to medium-grained limestone/siltstone - Slightly vuggy porous siltstone zone at 541.2 - Core dinking into 5cm pieces - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Solid <p>Interbedded Shale and Limestone/Siltstone</p> <ul style="list-style-type: none"> - Interbedded dark grey/green shale and lighter grey siltstone/limestone - Core dinking in shale layers to 5-10cm pieces - Light grey siltstone/sandstone layer at 543.9-544.1 - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Blocky <p>Interbedded Shale and Limestone/Siltstone</p> <ul style="list-style-type: none"> - Interbedded dark grey/green shale and lighter grey fine-grained siltstone/limestone - Fossiliferous limestone layers at 546.1, 546.4, 546.6 and 546.8 - Core dinking into 5-10cm pieces - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Blocky <p>Interbedded Shale and Limestone/Siltstone</p> <ul style="list-style-type: none"> - Interbedded dark grey/green shale and fossiliferous limestone and fine-grained sandstone - Fossiliferous limestone layers at 548.6, 549.4, and 550.6 - Core dinking into 5-10cm pieces - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Blocky | CR-29 | | | | | | DGR2-537.32-DF-NWMO
DGR2-537.47-PW-UNB | -409 | |
| 538 | | | | | | | | | DGR2-538.51-PW-UO | -408 |
| 539 | | | 539.20 | | | | | | DGR2-539.55-PW-UNB
DGR2-539.69-DF-NWMO | -407 |
| 540 | | | CR-30 | | | | | | DGR2-540.00-PT
DGR2-540.37-AR | -406 |
| 541 | | | | | | | | | DGR2-540.81-GM-PL
DGR2-540.95-GM-SL
DGR2-541.30-GM-PS
DGR2-541.63-GM-PS | -405 |
| 542 | | | 542.25 | | | | | | | -404 |
| 543 | | | CR-31 | | | | | | DGR2-543.20-AR
DGR2-543.45-PW-UB | -403 |
| 544 | | | | | | | | | DGR2-544.05-DF-NWMO
DGR2-544.25-PW-UNB | -402 |
| 545 | | | 545.30 | | | | | | DGR2-544.83-AR | -401 |
| 546 | | | CR-32 | | | | | | DGR2-546.21-GM-PS
DGR2-546.61-GM-PS | -400 |
| 547 | | | | | | | | | DGR2-547.53-AR | -399 |
| 548 | | | 548.35 | | | | | | DGR2-548.03-GM-PL
DGR2-548.21-GM-PL
DGR2-548.49-GM-PL | -398 |
| 549 | | CR-33 | | | | | | DGR2-549.18-GM-PL
DGR2-549.43-GM-PS
DGR2-549.63-DF-NWMO
DGR2-549.90-PW-UNB | -397 | |
| 550 | | | | | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|---------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 551 | | 551.40 | | | | | | DGR2-550.28-MN | -396 |
| | | | | | | | | DGR2-550.95-AR | |
| 552 | Shale
- Dark grey/green shale with some thin interbeds of limestone/siltstone/grainstone
- Fossiliferous limestone layers at 553.0 and 554.0
- Core dinking into 5-10cm pieces
- Medium soft (shale) and hard (limestone/sandstone/siltstone)
- Massive | CR-34 | | | | | | DGR2-551.75-PW-UO | -395 |
| 553 | | | | | | | | DGR2-552.38-AR | -394 |
| | | | | | | | | DGR2-552.82-PW-UNB | |
| | | | | | | | | DGR2-553.04-DF-NWMO | -393 |
| 554 | | 554.45 | | | | | | DGR2-553.70-GM-SL | |
| | | | | | | | | DGR2-554.09-GM-CAN | -392 |
| 555 | Shale
- Dark grey/green shale with some thin interbeds of limestone/siltstone
- Fossiliferous limestone layers at 555.8 and 556.0
- Core dinking into 5-15cm pieces
- Medium soft (shale) and hard (limestone/sandstone/siltstone)
- Blocky | CR-35 | | | | | | DGR2-554.55-DF-UNB | |
| 556 | | | | | | | | DGR2-554.80-AR | -391 |
| | | | | | | | | DGR2-555.12-GM-SW | |
| | | | | | | | | DGR2-555.20-GM-PL | -391 |
| 557 | | 557.50 | | | | | | DGR2-555.81-GM-PL | |
| | | | | | | | | DGR2-567.65-GM-SW | -390 |
| | | | | | | | | DGR2-556.33-PT | -390 |
| 558 | Shale
- Green shale with some interbeds of fossiliferous limestone
- Fossiliferous limestone layers at 558.5, 559.0, and 560.3
- Core dinking into 5-15cm pieces
- Medium soft (shale) and hard (limestone/sandstone/siltstone)
- Blocky | CR-36 | | | | | | DGR2-594.47-GM-SW | -389 |
| 559 | | | | | | | | DGR2-557.60-AR | |
| | | | | | | | | DGR2-557.93-AR | -389 |
| 560 | | 560.55 | | | | | | DGR2-632.56-GM-SW | |
| | | | | | | | | DGR2-558.15-GM-CAN | -388 |
| | | | | | | | | DGR2-558.42-GM-PL | |
| | | | | | | | | DGR2-558.50-GM-PL | -388 |
| 561 | Shale
- Interbedded dark grey/green shale with some interbeds of fine-grained limestone/siltstone/sandstone
- Fossiliferous limestone layers at 561.1, 561.5, 562.4 and 563.0
- Core dinking to 5-10cm pieces
- Medium soft (shale) and hard (limestone/sandstone/siltstone)
- Blocky | CR-37 | | | | | | DGR2-645.22-GM-SW | -387 |
| 562 | | | | | | | | DGR2-560.10-PW-UB | |
| | | | | | | | | DGR2-649.90-GM-SW | -386 |
| | | | | | | | | DGR2-560.38-GM-PS | -386 |
| 563 | | 563.60 | | | | | | DGR2-561.12-GM-PS | |
| | | | | | | | | DGR2-664.45-GM-SW | -385 |
| | | | | | | | | DGR2-561.66-PW-UNB | |
| | | | | | | | | DGR2-561.90-DF-NWMO | -385 |
| | | | | | | | | DGR2-684.88-GM-SW | |
| | | | | | | | | DGR2-562.35-GM-PL | -384 |
| | | | | | | | | DGR2-562.40-NG-UB | |
| | | | | | | | | DGR2-562.92-AR | -384 |
| | | | | | | | | DGR2-701.27-GM-SW | -383 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |






| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|---------------------|---------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |
| 564 | <p>Shale</p> <ul style="list-style-type: none"> - Interbedded dark grey/green shale with some interbeds of fine-grained limestone/siltstone/sandstone - Styolites at 563.9, 564.9 - Core easily disks into 3-4cm pieces - Bioclastic limestone bed at 566.0-566.2 - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Blocky <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green shale with some interbeds of medium-grained fossiliferous limestone/siltstone and minor layers of very fine-grained sandstone - Fossiliferous limestone bed at 568.4-568.6 - Core dinking including some crescent shaped pieces - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Massive <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green shale with some trace layers of fossiliferous fine-grained sandstone/limestone/siltstone - Core dinking into 1-5cm pieces, including crescent dinking - Possible smooth subvertical fracture at 570.8-570.9 - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Massive <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green shale with trace layers of fossiliferous fine-grained sandstone/limestone - Core dinking at surface into 3-5cm pieces - Possible subvertical and horizontal fractures at 573.8 - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Blocky <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green shale with trace layers of fossiliferous fine-grained sandstone/limestone/siltstone - Extensive core dinking to 5cm pieces including crescent dinking - Grading into massive shale below 577.7 - Medium soft (shale) and hard (limestone/sandstone/siltstone) - Blocky to massive | CR-38 | | | | | | DGR2-565.66-GM-PL | -382 | |
| 565 | | 566.65 | | | | | | | DGR2-566.99-AR | -381 |
| 566 | | | | | | | | | DGR2-567.19-PW-UB | -381 |
| 567 | | | CR-39 | | | | | | DGR2-568.03-GM-PL | -382 |
| 568 | | | | | | | | | DGR2-568.47-DF-NWMO | -382 |
| 569 | | | | | | | | | DGR2-568.70-PW-UNB | -383 |
| 570 | | | | | | | | | DGR2-568.95-AR | -383 |
| 571 | | | 569.70 | | | | | | DGR2-570.39-GM-SL | -384 |
| 572 | | | | | | | | | DGR2-570.73-MN | -385 |
| 573 | | | CR-40 | | | | | | DGR2-571.89-AR | -386 |
| 574 | | | | | | | | | -386 | |
| 575 | | 572.75 | | | | | | DGR2-573.35-GM-CAN | -387 | |
| 576 | | | | | | | | | -388 | |
| 577 | | CR-41 | | | | | | DGR2-575.16-PW-UNB | -389 | |
| | | | | | | | | DGR2-575.36-DF-NWMO | -389 | |
| | | | | | | | | DGR2-575.67-GM-PL | -390 | |
| | | 575.80 | | | | | | DGR2-576.09-PT | -390 | |
| | | | | | | | | DGR2-576.31-GM-PL | -391 | |
| | | | | | | | | DGR2-576.58-AR | -391 | |
| | | | | | | | | DGR2-577.03-GM-PS | -391 | |
| | | CR-42 | | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|--------------------|--------------------|--------------|--|--|--|--|---------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | | |
| 578 | Shale
- Dark grey/green shale with trace layers of fossiliferous fine-grained limestone/siltstone
- Trace sandstone/siltstone lenses
- Core dinking to 5-15cm pieces
- Medium soft (shale)
- Massive | 578.85 | CR-43 | | | | | DGR2-577.52-AR | -392 | | | | | | |
| | | | | | | | | | | | | | | DGR2-577.90-AR | |
| | | | | | | | | | | | | | | DGR2-578.15-PW-UO | |
| | | | | | | | | | | | | | | DGR2-578.56-DF-UNB | |
| 579 | | | | | | | | | | | | | | DGR2-579.16-AR | -393 |
| | | | | | | | | | | | | | | DGR2-579.35-GM-PL | |
| | | | | | | | | | | | | | | DGR2-579.55-GM-PS | |
| 580 | | | | | | | | | | | | | | | -394 |
| | | | | | | | | | | | | | | DGR2-580.72-PW-UB | |
| | | | | | | | | | | | | | | DGR2-580.99-GM-CAN | |
| 581 | | | | | | | | -395 | | | | | | | |
| | | | | | | | DGR2-581.32-AR | | | | | | | | |
| | | | | | | | DGR2-581.45-GM-PL | | | | | | | | |
| 582 | | 581.90 | | | | | | -396 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 583 | Shale
- Dark grey/green shale with trace layers of fossiliferous fine-grained sandstone/limestone/siltstone
- Abundant dinking of core to 5-10cm pieces
- Fossiliferous grey limestone layer at 584.8
- Medium soft
- Massive | | CR-44 | | | | | DGR2-582.93-PW-UNB | -397 | | | | | | |
| | | | | | | | | | | | | | | DGR2-583.18-DF-NWMO | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | DGR2-583.85-AR | |
| 584 | | | | | | | | -398 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 585 | Shale
- Dark grey/green shale with trace layers of fossiliferous fine-grained sandstone/limestone/siltstone
- Strong petroliferous odour
- Porous, pyritized zone with calcite at 585.5
- Halite filled fracture at 585.9 (possible gaseous zone)
- Moderate core dinking
- Medium soft
- Massive | 584.95 | CR-45 | | | | | DGR2-584.80-GM-PS | -399 | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | DGR2-585.82-AR | |
| 586 | | | | | | | | -400 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | DGR2-586.35-GM-CAN | | | | | | | | |
| 587 | | | | | | | | -401 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | DGR2-587.51-GM-CAN | | | | | | | | |
| 588 | Shale
- Dark grey/green shale with trace thin siltstone laminae
- Lightly petroliferous (droplets on fresh core breaks)
- Moderate core dinking to 10cm pieces
- Solid
- Hard | 588.00 | CR-46 | | | | | DGR2-587.81-GM-PL | -402 | | | | | | |
| | | | | | | | | | | | | | | DGR2-587.90-GM-PL | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | DGR2-588.66-AR | |
| 589 | | | | | | | | -403 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | DGR2-589.28-GM-PL | | | | | | | | |
| 590 | | | | | | | | -404 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | DGR2-589.47-GM-PS | | | | | | | | |
| | | | | | | | | -405 | | | | | | | |
| | | | | | | | DGR2-590.10-MN | | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|---------------------|--------------|---------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |
| 591 | Shale
- Dark grey/green shale with trace thin siltstone laminae
- Petroliferous odour
- Moderate core dinking
- Medium soft
- Solid | 591.05 | | | | | | DGR2-590.99-GM-PL | -406 | |
| | | | | | | | | DGR2-591.33-PW-UO | | |
| | | | | | | | | DGR2-591.59-AR | | |
| | | | | | | | | DGR2-591.82-GM-PL | | |
| 592 | | CR-47 | | | | | | DGR2-592.49-GM-PL | -407 | |
| | | | | | | | | | | DGR2-592.80-GM-SL |
| | | | | | | | | | | DGR2-593.25-PW-UNB |
| | | | | | | | | | | DGR2-593.53-DF-NWMO |
| 593 | Shale
- Dark grey/green shale with trace thin siltstone laminae
- Moderate core dinking to 10-15cm pieces
- Fossiliferous limestone layer at 596.4
- Medium soft
- Massive | 594.10 | | | | | | DGR2-595.05-AR | -409 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 594 | | CR-48 | | | | | | DGR2-596.09-PT | -410 | |
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| | | | | | | | | | | |
| 595 | Shale
- Dark grey/green shale with trace thin siltstone laminae
- Faint odour of sulfur if core is broken
- Moderate core dinking from 10-15cm pieces
- Medium soft
- Massive | 597.15 | | | | | | DGR2-597.25-DF-NWMO | -411 | |
| | | | | | | | | | | |
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| 596 | | CR-49 | | | | | | DGR2-597.46-PW-UNB | -412 | |
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| 597 | Shale
- Dark grey/green shale with trace layers of fossiliferous fine-grained limestone and sandstone
- Faint odour of sulfur if core is broken
- Calcite nodules at 601.4 and 601.9
- Core dinking into 5-10cm pieces
- Medium soft
- Solid | 600.20 | | | | | | DGR2-597.77-GM-PL | -413 | |
| | | | | | | | | | | |
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| 598 | | CR-50 | | | | | | DGR2-598.98-PW-UB | -414 | |
| | | | | | | | | | | |
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| 599 | | 603.25 | | | | | | DGR2-599.28-AR | -415 | |
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| 600 | | | | | | | | DGR2-599.58-AR | -416 | |
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| 601 | | | | | | | | DGR2-599.89-GM-PS | -417 | |
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| 602 | | | | | | | | DGR2-602.30-AR | -418 | |
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| 603 | | | | | | | | DGR2-603.87-GM-PL | -418 | |
| | | | | | | | | | | |
| 604 | | | | | | | | DGR2-604.29-DF-NWMO | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | | |
|--------------|---|---|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|--|--|--|--------------------|---------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | | |
| 605 | <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green shale with trace layers of fossiliferous fine-grained sandstone/limestone/siltstone - Faint odour of sulfur if core is broken - Fossiliferous limestone layers at 604.3 and 605.8 - Strong core dinking into 3-5cm pieces, some crescent dinking - Medium soft - Massive <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green shale with trace layers of fossiliferous fine-grained sandstone/limestone/siltstone - Faint odour of sulfur if core is broken - Increasing thickness of fossiliferous limestone/sandstone layers - Three possible fractures - Halite infilling on fracture at 606.6 - Strong core dinking into 3-5cm pieces, some crescent discing - Medium soft - Solid | CR-51 | | | | | | DGR2-604.76-AR | -419 | | | | | | |
| | | | | | | | | | | | | | DGR2-604.94-PW-UNB | | |
| 606 | | | | | | | | | | | | | | DGR2-605.93-GM-PL | -420 |
| | | | | | | | | 606.30 | | | | | | DGR2-606.50-GM-CAN | |
| 607 | | | | | | | | | | | | | | DGR2-606.62-MN | -421 |
| | | | | | | | | | | | | | | DGR2-606.96-MN | |
| 608 | | | | | | | | CR-52 | | | | | | DGR2-607.43-GM-PL | -422 |
| | | | | | | | | | | | | | | DGR2-607.65-AR | |
| | | | | | | | | | | | | | | DGR2-608.08-DF-NWMO | |
| | | | | | | | | | | | | | | DGR2-608.28-PW-UNB | |
| | | | | | | | | 608.90 | | | | | | DGR2-608.85-GM-PL | -423 |
| 609 | | <p>Blue Mountain Formation</p> <ul style="list-style-type: none"> - Green/blue to blue/grey to grey with depth, fossiliferous shale with petroliferous and sulphurous odour interbedded with siltstone and fossiliferous limestone in upper part of formation <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green soft shale with trace layers of fossiliferous fine-grained, hard sandstone/limestone/siltstone - Faint odour of sulfur if core is broken - Moderate core dinking into 5-10cm pieces - Blocky <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green soft shale with trace fossiliferous layers - Faint odour of sulfur if core is broken - Fossiliferous layers at 613.5, 614.0 and 614.9 - Moderate core dinking into 5-10cm pieces - Massive <p>Shale</p> <ul style="list-style-type: none"> - Dark grey/green soft shale, petroliferous and sulphurous odour with trace fossiliferous bed (0.1-6cm) - Massive - Core dinking into 5-10cm pieces is prevalent | | | | | | CR-53 | | | | | | DGR2-609.49-PW-UB | -424 |
| | | | | | | | | | | | | | | | |
| 610 | | | | | | | | | | | | | | DGR2-610.31-AR | -425 |
| | | | | | | | | | | | | | | DGR2-611.27-GM-PL | |
| 611 | | | | | | | | | | | | | | DGR2-612.09-PW-UO | -426 |
| | | | 612.40 | | | | | | | | | | | DGR2-613.37-GM-CAN | -427 |
| 612 | | | | | | | | | | | | | | DGR2-613.41-AR | |
| | | | | | | | | | | | | | | DGR2-613.93-PT | -428 |
| 613 | | | CR-54 | | | | | | | | | | | DGR2-614.47-DF-UNB | -429 |
| | | | | | | | | | | | | | | DGR2-615.85-AR | -430 |
| 614 | | | | | | | | DGR2-616.17-PW-UB | -431 | | | | | | |
| | | | | | | | | DGR2-616.59-GM-CAN | | | | | | | |
| 615 | | | | | | | | DGR2-616.70-AR | -431 | | | | | | |
| | | 615.45 | | | | | | DGR2-617.59-GM-SL | -432 | | | | | | |
| 616 | | CR-55 | | | | | | | | | | | | | |
| 617 | | | | | | | | | | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|---------------------|--------------|--|--|--|--------------------|--------------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | |
| 618 | | 618.50 | | | | | | DGR2-618.03-GM-PL | | | | | | |
| | | | | | | | | DGR2-618.43-GM-PL | | | | | | |
| 619 | Shale
- Dark grey/green soft shale, massive bedded with one thin siltstone interbed at 620.9
- Core breaks easily along weak shale partings
- Moderate core dinking into 5-10cm pieces
- Massive | CR-56 | | | | | | DGR2-619.20-GM-PS | -433 | | | | | |
| | | | | | | | | DGR2-619.40-AR | -434 | | | | | |
| 620 | | | | | | | | | | | | | DGR2-620.52-PW-UNB | |
| 621 | | | | | | | | DGR2-620.95-DF-NWMO | -435 | | | | | |
| 622 | Shale
- Dark grey/green massive bedded shale
- Soft with weak parting planes
- Slightly fossiliferous
- Moderate core dinking into 5-10cm pieces
- Massive | CR-57 | | | | | | DGR2-621.88-AR | -436 | | | | | |
| 623 | | | | | | | | | | | | | | |
| 624 | | | | | | | | | | | | | | DGR2-623.97-GM-PL |
| | | | | | | | | DGR2-624.05-GM-PL | | | | | | |
| 625 | Shale
- Dark grey/green massive bedded shale
- Soft with weak parting planes
- Decreasing fossil content
- Trace limestone/siltstone interbeds
- Moderate core dinking into 5-15cm pieces | CR-58 | | | | | | DGR2-624.81-GM-CAN | -439 | | | | | |
| 626 | | | | | | | | | | | | | | |
| 627 | | | | | | | | | | | | | | DGR2-625.24-GM-PS |
| | | | | | | | | DGR2-625.45-AR | | | | | | |
| 628 | Shale
- Dark grey/green to black massive shale
- Soft with weak parting planes
- Decreasing fossil content
- Trace limestone/siltstone interbeds
- Moderate core dinking into 5-10cm pieces | CR-59 | | | | | | DGR2-626.29-MN | -441 | | | | | |
| 629 | | | | | | | | | | | | | | |
| 630 | | | | | | | | | | | | | | DGR2-627.12-GM-CAN |
| | | | | | | | | DGR2-628.18-PW-UO | -443 | | | | | |
| 631 | | 630.70 | | | | | | DGR2-629.13-AR | -444 | | | | | |
| | | | | | | | | DGR2-630.53-GM-PL | -445 | | | | | |
| | | | | | | | | DGR2-630.59-GM-PL | | | | | | |
| | | | | | | | | DGR2-631.22-DF-UNB | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | |
|--------------|---|-----------------|---|---------------|---------|------------------|-----------------|-------------------|--------------|--|--|--|--------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | |
| 632 | Shale
- Dark grey/green to black massive shale
- Soft with weak parting planes
- Decreasing fossil content
- Trace limestone/siltstone interbeds
- Moderate core dinking into 5-10cm pieces
- Massive | CR-60 |  | | | | | DGR2-631.86-AR | -446 | | | | | |
| 633 | | | | | | | | | | | | | DGR2-633.24-GM-PL | -447 |
| | | | | | | | | | | | | | DGR2-633.30-GM-PL | -448 |
| 634 | Shale
- Dark grey to black massive bedded shale
- Light grey to dark grey colour banding
- Soft with very weak parting planes
- Moderate core dinking into 5-10cm pieces
- Solid | 633.75 |  | | | | | DGR2-633.41-PT | -448 | | | | | |
| 635 | | | | | | | | | | | | | DGR2-633.94-PW-UB | -449 |
| 636 | | | | | | | | | | | | | DGR2-634.49-AR | -450 |
| 637 | Shale
- Dark grey to black massive bedded shale
- Soft with very weak parting planes
- Petroliferous odour
- Sulfur odour at core breaks
- Pressure release "popping" as core is dinking
- Strong core dinking into 3-5cm pieces
- Blocky | 636.80 |  | | | | | DGR2-635.18-GM-SL | -451 | | | | | |
| 638 | | | | | | | | | | | | | DGR2-635.64-AR | -452 |
| 639 | | | | | | | | | | | | | DGR2-637.79-AR | -453 |
| 640 | Shale
- Dark grey to black massive bedded shale
- Soft with very weak parting planes
- Petroliferous odour
- Strong dinking of core into 3-5cm pieces
- Blocky | 639.85 |  | | | | | DGR2-639.41-GM-PL | -454 | | | | | |
| 641 | | | | | | | | | | | | | DGR2-639.50-GM-PL | -455 |
| 642 | | | | | | | | | | | | | DGR2-640.41-GM-CAN | -456 |
| 643 | Shale
- Dark grey to black massive bedded shale
- Soft with very weak parting planes
- Petroliferous odour
- Strong dinking of core into 3-5cm pieces
- Blocky | 642.90 |  | | | | | DGR2-641.92-AR | -457 | | | | | |
| 644 | | | | | | | | | | | | | DGR2-643.35-GM-CAN | -458 |
| 645 | | | | | | | | | | | | | DGR2-644.49-MN | -459 |
| | | | | | | | | DGR2-644.85-GM-PL | -459 | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 646 | | 645.95 | | | | | | DGR2-645.60-GM-CAN | -460 |
| | | | | | | | | DGR2-646.42-GM-CAN | |
| | | | | | | | | DGR2-646.72-GM-CAN | |
| 647 | | 647.00 | | | | | | | -461 |
| | Blue Mountain Formation - Lower Member
- Dark grey calcareous shale with petroliferous odour | CR-65 | | | | | | DGR2-647.59-GM-SL | |
| 648 | Shale
- Dark grey to black shale
- Massive bedded
- Soft with very weak parting planes
- Carboniferous/petroliferous odour
- Trace pyrite on some core breaks
- Moderate core dinking into 10-15cm pieces | | | | | | | DGR2-647.85-AR | -462 |
| 649 | | 649.00 | | | | | | DGR2-648.75-PW-UO | -463 |
| | | | | | | | | DGR2-649.29-DF-UNB | |
| 650 | Shale
- Dark grey to black calcareous shale
- Hard
- Weak parting planes with strong core dinking into 3-5cm pieces
- Petroliferous odour | CR-66 | | | | | | DGR2-649.58-AR | -464 |
| 651 | | 651.12 | | | | | | DGR2-650.12-PT | |
| | | | | | | | | DGR2-650.38-GM-PL | |
| | | | | | | | | DGR2-650.74-GM-SW | -465 |
| | | 651.60 | | | | | | DGR2-651.34-AR | |
| | | | | | | | | DGR2-651.55-GM-PL | |
| 652 | Cobourg Formation - Collingwood Member
- Dark grey to black calcareous shale interbedded with grey, fossiliferous, argillaceous, locally petroliferous odour, limestone | CR-67 | | | | | | DGR2-652.52-GM-PL | -466 |
| 653 | Interbedded Shale and Argillaceous Limestone
- Dark grey calcareous shale (hard) weak parting planes with core dinking, petroliferous odour throughout
- Dark grey, massive bedded very hard, argillaceous limestone with shale content below 651.8
- Blocky | | | | | | | DGR2-652.71-PW-UB | -467 |
| 654 | Dolostone
- Dark grey, fine-grained, massive bedded dolostone | 654.40 | | | | | | | -468 |
| | | 654.50 | | | | | | | |
| 655 | Interbedded Shale and Argillaceous Limestone
- Grey/brown fine-grained limestone, hard, fossiliferous (abundant bivalves)
- Blocky | CR-68 | | | | | | DGR2-654.97-GM-CAN | -469 |
| 656 | Interbedded Shale and Argillaceous Limestone
- Light grey to tan limestone with dark grey to black shale interbeds
- Shale is black, calcareous and fossiliferous
- Hard (limestone) and medium soft (shale)
- Blocky to massive | | | | | | | DGR2-655.32-GM-CAN | -470 |
| 657 | | 658.15 | CR-69 | | | | | DGR2-656.41-AR | |
| | | | | | | | | DGR2-656.65-GM-PL | -471 |
| 658 | | 658.15 | | | | | | DGR2-657.86-GM-AB | -472 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (MASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|---|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 659 | Argillaceous Limestone
- Light grey to tan, fine to medium-grained, very hard, fossiliferous, argillaceous limestone
- Trace shale interbeds | 659.50 | | | | | | DGR2-658.78-GM-CAN
DGR2-658.88-PT
DGR2-659.31-MN | -473 |
| 660 | Cobourg Formation - Lower Member
- Mottled light to dark brownish grey, very fine to coarse-grained, hard, fossiliferous argillaceous limestone limestone | QR-70 | | | | | | DGR2-660.14-AR | -474 |
| 661 | | 661.20 | | | | | | DGR2-660.54-GM-AB
DGR2-660.68-GM-CAN
DGR2-660.93-DF-UNB | -475 |
| 662 | Argillaceous Limestone
- Mottled light grey to tan fine to medium-grained, very hard, argillaceous limestone with semi-nodular texture, fine to medium-grained
- Massive | CR-71 | | | | | | DGR2-661.61-GM-CAN
DGR2-662.09-AR | -476 |
| 663 | | 664.25 | | | | | | DGR2-663.19-PW-UB
DGR2-663.34-PW-UO
DGR2-663.46-AR
DGR2-663.64-GM-AB | -477 |
| 664 | | | | | | | | | -478 |
| 665 | Argillaceous Limestone
- Mottled light grey to grey, fossiliferous, argillaceous, very hard limestone with semi-nodular to nodular texture and faint bituminous laminae
- Trace styolite
- Massive | CR-72 | | | | | | DGR2-664.94-AR
DGR2-665.12-GM-PL
DGR2-665.46-GM-PL | -479 |
| 666 | | | | | | | | | -480 |
| 667 | | 667.30 | | | | | | DGR2-666.79-GM-CAN
DGR2-667.03-GM-AB | -481 |
| 668 | Argillaceous Limestone
- Mottled light grey to grey, fine to very fine-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture and bituminous laminae
- Massive to blocky | CR-73 | | | | | | DGR2-668.19-DF-UNB
DGR2-668.46-GM-CAN | -482 |
| 669 | | | | | | | | DGR2-669.10-PT
DGR2-669.27-MN | -483 |
| 670 | | 670.35 | | | | | | DGR2-669.81-AR
DGR2-670.01-AR
DGR2-670.15-GM-CAN | -484 |
| 671 | Argillaceous Limestone
- Mottled light grey to grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone, semi-nodular to nodular, bituminous laminae | CR-74 | | | | | | DGR2-670.48-PW-UO
DGR2-671.05-AR
DGR2-671.64-PW-UB | -485 |
| 672 | | | | | | | | DGR2-672.07-GM-PL | -486 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (MASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | |
|--------------|---|---|--------------------|---------------|---------|------------------|-----------------|-------------------|--------------|--------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | |
| 673 | Argillaceous Limestone
- Mottled light grey to grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture and bituminous laminae, some very fossiliferous (packstone) beds
- Solid | 673.40 | | | | | 0-----90 | DGR2-672.15-GM-PL | -487 | | |
| | | | | | | | | | | DGR2-672.24-GM-AB | |
| | | | | | | | | | | DGR2-673.06-AR | |
| | | | | | | | | | | DGR2-673.26-GM-CAN | |
| 674 | | | | | | | | | | DGR2-674.11-GM-CAN | -488 |
| | | | | | | | | | | DGR2-674.48-PW-UB | |
| 675 | | | | | | | | | | DGR2-674.98-PW-UB | -489 |
| | | | | | | | | | | DGR2-675.24-NG-UB | |
| | | | | | | | | | | DGR2-675.48-AR | |
| 676 | | | | | | | | | | DGR2-675.88-AR | -490 |
| | | | | | | | | | | DGR2-676.45-GM-CAN | |
| 677 | | Argillaceous Limestone
- Mottled light grey to grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture and bituminous laminae, thin shale interbeds
- Horizontal smooth fracture with dark brown fracture infilling at 677.2
- Massive | | | | | | 676.45 | | | |
| | | | DGR2-677.11-DF-PSI | | | | | | | | |
| | | | DGR2-677.32-GM-AB | | | | | | | | |
| | | | DGR2-677.37-GM-CAN | | | | | | | | |
| 678 | Argillaceous Limestone
- Mottled light grey to grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture and bituminous laminae, thin shale interbeds
- Horizontal smooth fracture with dark brown fracture infilling at 677.2
- Massive | 677.50 | | | | | 0-----90 | DGR2-677.93-MN | -492 | | |
| | | | | | | | | | | DGR2-678.55-GM-PL | |
| | | | | | | | | | | DGR2-678.63-PT | |
| 679 | Argillaceous Limestone
- Mottled light grey to grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture and bituminous laminae
- Fine-grained beds have slight olive colour, coarser beds are slightly blue/grey | 679.50 | | | | | 0-----90 | DGR2-679.08-AR | -493 | | |
| | | | | | | | | | | DGR2-679.83-GM-CAN | |
| 680 | Argillaceous Limestone
- Mottled light grey to grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture and bituminous laminae
- Fine-grained beds have slight olive colour, coarser beds are slightly blue/grey | 682.55 | | | | | 0-----90 | DGR2-680.29-PW-UB | -494 | | |
| | | | | | | | | | | DGR2-681.18-GM-AB | |
| 681 | | | | | | | | | | DGR2-681.45-PW-UO | |
| 682 | Argillaceous Limestone
- Mottled grey to light olive grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture
- Massive | 682.55 | | | | | 0-----90 | DGR2-681.98-AR | -496 | | |
| | | | | | | | | | | DGR2-683.02-GM-CAN | |
| 683 | | | | | | | | | | DGR2-683.49-GM-PL | |
| | | | | | | | | | | DGR2-684.00-AR | |
| 684 | Argillaceous Limestone
- Mottled grey to light olive grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture
- Massive | 685.60 | | | | | 0-----90 | DGR2-684.37-GM-AB | -498 | | |
| | | | | | | | | | | DGR2-685.10-GM-PL | |
| 685 | | | | | | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|--|-----------------|--------------|--------------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 686 | Argillaceous Limestone
- Mottled grey to dark grey, fine to coarse-grained, very hard, fossiliferous argillaceous limestone with semi-nodular to nodular texture
- Massive | CR-79 | | | | | | DGR2-686.20-AR | -500 |
| 687 | | | | | | | | DGR2-687.10-PT | -501 |
| | | | | | | | | DGR2-687.47-MN | |
| | | | | | | | | DGR2-687.64-MSC | |
| 688 | | | | | | | | DGR2-687.91-DF-UNB | -502 |
| | | 688.10 | | | | | | | |
| | Sherman Fall Formation | | | | | | | | |
| | - Grey medium to coarse-grained to fine-grained with depth, fossiliferous argillaceous limestone interbedded with shale, interbeds increase in abundance with depth | 688.65 | | | | | | DGR2-688.22-GM-CAN | |
| 689 | | | | | | | | | |
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| 690 | Argillaceous Limestone
- Light to medium grey fossiliferous argillaceous limestone, abundant dark grey very thin, irregular shaley laminae
- Thicker granstone/packstone beds with no shaley laminae at 691.2-691.5
- White evaporite minerals in trace nodules
- Massive | CR-80 | | | | | | DGR2-689.45-PW-UO | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 691 | | | | | | | | | |
| | | 691.70 | CR-81 | DGR2-689.78-GM-PL | -504 | | | | |
| | | | | DGR2-689.90-AR | | | | | |
| | | | | DGR2-690.31-GM-AB | | | | | |
| | | | | DGR2-690.69-PW-UB | -505 | | | | |
| 692 | | | | DGR2-690.96-AR | | | | | |
| | | | CR-82 | DGR2-691.38-AR | | | | | |
| | | | | DGR2-692.00-GM-CAN | -506 | | | | |
| | | | | DGR2-692.20-GM-CAN | | | | | |
| | | | | DGR2-692.39-AR | | | | | |
| 693 | | | | | | | | | |
| | Argillaceous Limestone
- Light to dark grey limestone
- Medium-grained grainstone beds
- Abundant dark grey shale beds (5-20cm), fossiliferous
- Porous layer at 694.6
- Massive to blocky | 694.75 | CR-81 | DGR2-693.90-AR | -508 | | | | |
| 694 | | | | DGR2-694.11-GM-CAN | | | | | |
| | | | | DGR2-694.63-PW-UO | | | | | |
| | | | | DGR2-695.15-GM-CAN | -509 | | | | |
| 695 | Argillaceous Limestone
- Light to dark grey fine to coarse-grained argillaceous limestone with abundant irregular shaley laminae
- Blocky | CR-82 | | DGR2-695.34-GM-AB | | | | | |
| | | | | DGR2-695.51-MN | | | | | |
| | | | | DGR2-696.05-PT | -510 | | | | |
| | | | | DGR2-696.50-GM-PL | | | | | |
| 696 | | | | DGR2-696.57-GM-CAN | | | | | |
| | | | CR-82 | DGR2-696.75-AR | -511 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 697 | | | | | | | | | |
| | Argillaceous Limestone
- Light grey, medium to coarse-grained, fossiliferous, argillaceous, limestone
- Abundant dark grey/green shaley laminae and stylolites
- Blocky | 697.80 | CR-82 | DGR2-697.86-GM-CAN | -512 | | | | |
| 698 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 699 | | | | | | | | | |
| | | | CR-82 | DGR2-698.84-GM-CAN | -513 | | | | |
| | | | | DGR2-698.93-AR | | | | | |
| | | | | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|--|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 700 | | 83 | | | | | | DGR2-699.32-PW-UB
DGR2-699.58-PW-UO
DGR2-700.32-AR | -514 |
| 701 | Interbedded Argillaceous Limestone and Shale
- Light grey, medium to coarse-grained, fossiliferous, argillaceous, limestone
- Dark grey/green shaley laminae up to 5cm thick
- Solid | 700.85 | | | | | | | -515 |
| 702 | | CR-84 | | | | | | DGR2-701.87-GM-PL
DGR2-702.23-GM-CAN
DGR2-702.47-GM-SL
DGR2-702.69-GM-CAN | -516 |
| 703 | | | | | | | | DGR2-703.05-GM-CAN | -517 |
| 704 | Interbedded Argillaceous Limestone and Shale
- Grey to light grey, fine to coarse-grained fossiliferous argillaceous limestone, with bioclastic grainstone layers
- Dark grey/green shale interbeds (1-3cm) thick
- Massive | 703.90 | | | | | | DGR2-703.80-AR
DGR2-703.94-GM-CAN
DGR2-704.23-AR
DGR2-704.47-GM-CAN | -518 |
| 705 | | CR-85 | | | | | | DGR2-704.87-MN | -519 |
| 706 | | | | | | | | DGR2-705.68-DF-UNB
DGR2-705.86-GM-CAN | -520 |
| 707 | Interbedded Argillaceous Limestone and Shale
- Grey to light grey, fine to coarse-grained fossiliferous, argillaceous limestone, with bioclastic grainstone layers
- Dark grey/green fossiliferous shale interbeds (1-3cm) thick
- Massive | 706.95 | | | | | | DGR2-706.77-PT
DGR2-706.98-GM-CAN
DGR2-707.19-AR | -521 |
| 708 | | CR-86 | | | | | | DGR2-707.78-PW-UB
DGR2-708.03-AR | -522 |
| 709 | | | | | | | | DGR2-708.57-GM-CAN
DGR2-708.80-GM-PL | -523 |
| 710 | Interbedded Argillaceous Limestone and Shale
- Grey to light grey, fine to coarse-grained fossiliferous, argillaceous limestone, with bioclastic grainstone layers
- Dark grey/green fossiliferous shale interbeds (1-3cm) thick throughout | 709.70 | | | | | | DGR2-709.28-PW-UO
DGR2-709.47-GM-PL | -524 |
| 711 | | CR-87 | | | | | | DGR2-711.08-AR | -525 |
| 712 | | | | | | | | | -526 |
| | | 712.75 | | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 713 | Interbedded Argillaceous Limestone and Shale
- Grey to light grey, fine to coarse-grained mottled fossiliferous limestone
- Dark grey/green fossiliferous shale interbeds with calcite nodules
- Massive | 713.05 | | | | | | | -528 |
| 714 | Interbedded Argillaceous Limestone and Shale
- Medium to light grey, fine to coarse-grained fossiliferous limestone
- Dark grey/green fossiliferous shale interbeds with calcite nodules | | | | | | | DGR2-713.97-GM-PS | |
| 715 | | | | | | | | DGR2-714.75-AR | -529 |
| | | | | | | | | DGR2-714.97-GM-PL | |
| 716 | | 716.10 | | | | | | | -530 |
| | Kirkfield Formation | | | | | | | | |
| 717 | - Interbedded grey, fine-grained to coarse-grained, argillaceous, fossiliferous, limestone interbedded with abundant dark grey/green shale | | | | | | | | -531 |
| 718 | Interbedded Argillaceous Limestone and Shale
- Grey to light grey, fine to coarse-grained fossiliferous argillaceous limestone
- Dark grey/green fossiliferous shale interbeds with calcite nodules
- Core ground and broken due to drilling difficulties | | | | | | | | -532 |
| 719 | | 719.15 | | | | | | | -533 |
| 720 | Interbedded Argillaceous Limestone and Shale
- Grey to light grey, fine to coarse-grained mottled fossiliferous argillaceous limestone
- Dark grey/green fossiliferous shale interbeds with calcite nodules
- Fracture at 721.1 along shale interbed
- Massive | | | | | | | DGR2-719.38-GM-CAN | -534 |
| 721 | | | | | | | | DGR2-719.98-GM-PL | |
| | | | | | | | | DGR2-720.54-AR | -535 |
| 722 | | 722.20 | | | | | | | -536 |
| 723 | Interbedded Argillaceous Limestone and Shale
- Grey to light grey, fine to coarse-grained mottled fossiliferous argillaceous limestone
- Dark grey/green fossiliferous shale interbeds with calcite nodules
- Massive | | | | | | | DGR2-722.67-GM-SL | -537 |
| 724 | | | | | | | | DGR2-723.59-GM-PS | -538 |
| | | | | | | | | DGR2-724.16-AR | |
| 725 | Interbedded Argillaceous Limestone and Shale
- Grey to light grey, fine to coarse-grained fossiliferous argillaceous limestone
- Dark grey/green fossiliferous shale interbeds with calcite nodules
- Blocky to massive | 725.25 | | | | | | | -539 |
| 726 | Dolostone
- Grey, medium-grained, abundantly fossiliferous (bivalves) | 726.11 | | | | | | DGR2-725.94-AR | -540 |
| | | 726.35 | | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | | | | | |
|--------------|--|-----------------|--------------|---------------|---------|------------------|--------------------|-------------------|--------------|--|--|--|-------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | | | | | |
| 727 | <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Grey to light grey, fine to coarse-grained argillaceous limestone - Dark grey/green shale interbeds with calcite nodules - Fossil content decreasing from last core, slightly fossiliferous - Massive to blocky | CR-93 | | | | | | DGR2-726.76-GM-PL | -541 | | | | | |
| | | | | | | | | | | | | | DGR2-726.86-GM-PL | |
| 728 | | 728.30 | | | | | | | | | | | | -542 |
| 729 | | | | | | | | | | | | | DGR2-729.41-AR | -543 |
| 730 | | CR-94 | | | | | | | | | | | DGR2-729.98-GM-PL | -544 |
| | | | | | | | | | | | | | DGR2-730.08-GM-PL | |
| 731 | | 731.35 | | | | | | | | | | | | -545 |
| 732 | | | | | | | | | | | | | | -546 |
| 733 | | CR-95 | | | | | | | | | | | DGR2-732.97-GM-PS | -547 |
| 734 | | | | | | | | | | | | | DGR2-733.48-AR | -548 |
| 735 | <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Grey to light grey, fine to medium-grained argillaceous limestone - Dark grey/green shale interbeds with calcite nodules - Fossiliferous layers (bivalves and coral) primarily associated with shale beds - Massive | 734.40 | | | | | | -549 | | | | | | |
| 736 | <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Grey to light grey, fine to medium-grained argillaceous limestone - Dark grey/green shale interbeds with calcite nodules - Fossiliferous layers (bivalves and coral) primarily associated with shale beds - Massive to blocky | CR-96 | | | | | DGR2-735.45-GM-PL | -550 | | | | | | |
| | | | | | | | DGR2-735.61-GM-PL | | | | | | | |
| | | | | | | | DGR2-735.78-AR | | | | | | | |
| 737 | | 737.45 | | | | | | -551 | | | | | | |
| | | | | | | | DGR2-737.16-GM-CAN | | | | | | | |
| 738 | <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Grey to light grey, fine to medium-grained argillaceous limestone - Dark grey/green shale interbeds with calcite nodules - Fossiliferous layers (bivalves and coral) primarily associated with shale beds - Irregular bedding - Blocky to massive | | | | | | DGR2-737.79-NG-UB | -552 | | | | | | |
| | | | | | | | DGR2-738.00-PW-UB | | | | | | | |
| 739 | | CR-97 | | | | | | -553 | | | | | | |
| | | | | | | | DGR2-738.90-AR | | | | | | | |
| | | | | | | | DGR2-739.78-GM-PS | -554 | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
|--------------|--|--------------------|-------------------|---------------|---------|------------------|-----------------|-------------------|----------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |
| 740 | <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Grey to light grey, fine to medium-grained argillaceous limestone - Dark grey/green shale interbeds with calcite nodules - Less fossiliferous than some previous cores - Irregular bedding - Core breaking along shale partings - Blocky <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Grey to light grey, fine to medium-grained argillaceous limestone - Dark grey/green shale interbeds with calcite nodules - More massive bedded well cemented hard limestone - Two possible fractures at 744.8 and 746.5 - Massive <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Mottled light grey to dark grey, fine to medium-grained, argillaceous limestone - Trace dark grey/green shale interbeds - Some grey/tan limestone - Fossiliferous - Possible fracture at 747.5 - Massive to blocky <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Mottled light grey to grey, fine to medium-grained, argillaceous limestone - Dark grey/green shale interbeds and stylolites - Fossiliferous - Possible fracture at 750.2 - Blocky to massive <p>Interbedded Argillaceous Limestone and Shale</p> <ul style="list-style-type: none"> - Light grey to grey, fine to medium-grained, cemented and very hard, argillaceous limestone, increased shale content - Dark grey/green shale interbeds - Petroliferous odour on shale partings - Very hard, well cemented limestone beds and softer shale interbeds - Massive to blocky | 740.50 | | | | | | DGR2-742.61-AR | -555 | |
| 741 | | CR-98 | | | | | | DGR2-743.05-GM-PL | -556 | |
| 742 | | | | | | | | DGR2-743.87-AR | -557 | |
| 743 | | 743.55 | | | | | | CR-99 | DGR2-744.86-PT | -558 |
| 744 | | DGR2-745.08-GM-SL | | | | | | | -559 | |
| 745 | | DGR2-745.97-MN | | | | | | | -560 | |
| 746 | | 746.60 | | | | | | CR-100 | DGR2-746.14-AR | -561 |
| 747 | | DGR2-746.33-DF-UNB | | | | | | | -562 | |
| 748 | | DGR2-747.04-GM-CAN | | | | | | | -563 | |
| 749 | | DGR2-747.42-AR | | | | | | | -564 | |
| 750 | 749.65 | CR-101 | DGR2-747.75-AR | -565 | | | | | | |
| 751 | DGR2-748.05-PW-UB | | -566 | | | | | | | |
| 752 | DGR2-748.92-PW-UO | | -567 | | | | | | | |
| 753 | 752.70 | | DGR2-749.32-GM-PL | -568 | | | | | | |
| | | | DGR2-751.00-AR | -569 | | | | | | |
| | | | DGR2-751.38-GM-PS | -570 | | | | | | |
| | | | DGR2-752.50-GM-PL | -571 | | | | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|--|------------------|--------------|---------------|---------|------------------|-----------------|--|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 754 | | CR-102 | | | | | | DGR2-754.34-AR | -568 |
| 755 | | | | | | | | | -569 |
| 756 | Interbedded Argillaceous Limestone and Shale
- Light grey to grey, fine to medium-grained, cemented and very hard, argillaceous limestone, increased shale content
- Dark grey/green shale interbeds
- Less fossiliferous than previous cores
- Blueish grey massive limestone below 758.0
- Massive | 755.75
CR-103 | | | | | | DGR2-757.13-GM-PS | -570 |
| 757 | | | | | | | | | -571 |
| 758 | | | | | | | | DGR2-758.15-AR | -572 |
| 759 | | 758.80
CR-104 | | | | | | DGR2-759.20-AR | -573 |
| 760 | Interbedded Argillaceous Limestone and Shale
- Light grey to grey, fine to medium-grained, cemented and very hard, argillaceous limestone,
- Dark grey/green shale interbeds
- Fossil content varies from trace to abundant
- Blocky to massive | | | | | | | DGR2-760.66-GM-PL
DGR2-760.74-GM-PL | -574 |
| 761 | | 761.25 | | | | | | | -575 |
| 762 | Interbedded Argillaceous Limestone and Shale
- Light to medium grey argillaceous limestone with shale interbeds | 762.00 | | | | | | | -576 |
| 763 | Coboconk Formation
- Tan to grey, dominantly fine-grained with subordinate medium and coarse-grained beds, locally petroliferous limestone with bituminous shale
Limestone
- Tan very fine-grained massive limestone with some black shale/mudstone filled 0.5cm irregular features below 763.3
- Blocky | 763.30
CR-105 | | | | | | DGR2-762.19-AR
DGR2-762.70-GM-PL
DGR2-762.86-GM-PL | -577 |
| 764 | Dolostone
- Tan, very fine-grained, massive bedded dolostone with some black mud-infilled burrows | 764.30
CR-106 | | | | | | DGR2-763.81-AR | -578 |
| 765 | Limestone
- Grey to dark grey, very fine-grained, cemented and hard, argillaceous limestone
- Dark grey/green shale interbeds 1cm thick
- Fossil content varies from trace to abundant and are associated with shaley layers | 764.90
CR-107 | | | | | | DGR2-764.95-GM-PL
DGR2-765.16-GM-PL
DGR2-765.62-AR | -579 |
| 766 | Limestone
- Grey, very fine-grained, cemented and hard, limestone
- Dark grey/green shale interbeds and stylolites
- Slightly fossiliferous
- Massive to blocky | | | | | | | DGR2-766.63-AR | -580 |
| 767 | | | | | | | | | -581 |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|--|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 768 | Limestone
- Light grey to grey, very fine-grained, cemented and very hard, limestone
- Black shale layers and thin laminae
- Possible open fracture at 769.4
- Blocky
Marker Bed
- Volcanic ash layer at 768.8-768.9 | 767.95 | | | | | | DGR2-767.95-GM-PS | -582 |
| | | | | | | | | DGR2-768.35-GM-PL | |
| | | 768.84 | | | | | | | -583 |
| 769 | | 768.97 | | | | | | DGR2-769.11-AR | |
| | | | | | | | | DGR2-769.61-GM-PS | -584 |
| 770 | Limestone
- Grey/brown, very fine-grained, cemented and very hard, limestone
- Black shale layers and thin laminae
- Blocky | 769.75 | | | | | | | -585 |
| 771 | Limestone
- Grey/brown, very fine-grained, cemented and very hard, limestone
- Thin interbeds of black shale and stylolites throughout core
- Petroliferous odour and slightly petroliferous along stylolites
- Calcite and anhydrite infilling present
- Infilled vertical fracture at 771.0
- Massive to blocky | 771.00 | | | | | | DGR2-771.36-GM-PS | -586 |
| 772 | | | | | | | | DGR2-772.40-AR | -587 |
| 773 | | | | | | | | | -588 |
| 774 | Limestone
- Grey/brown, very fine-grained, cemented and very hard, limestone
- Thin interbeds of black shale and stylolites throughout core
- Blocky | 774.05 | | | | | | | -589 |
| 775 | | | | | | | | DGR2-775.41-GM-PL | -590 |
| 776 | | | | | | | | DGR2-775.99-AR | -591 |
| 777 | | | | | | | | DGR2-776.50-GM-SL | -592 |
| 778 | Limestone
- Grey/brown, very fine-grained, cemented and very hard, limestone
- Thin interbeds of black shale and stylolites, bioturbated
- Vuggy petroliferous porous zone at 778.3-778.8
- Fractured to blocky

Marker Bed
- Tan massive dolostone layer at 778.7-778.8 | 777.10 | | | | | | DGR2-777.22-GM-PL | -593 |
| | | 778.71 | | | | | | | -594 |
| 779 | | 778.75 | | | | | | DGR2-778.61-AR | -594 |
| | | | | | | | | DGR2-779.04-AR | -594 |
| | | | | | | | | DGR2-779.64-GM-PS | -594 |
| 780 | | 780.15 | | | | | | | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|---|------------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 781 | Limestone
- Mottled light grey to grey, very fine-grained limestone
- Thin interbeds of black shale and stylolites, bioturbated
- Massive | CR-113 | | | | | | DGR2-781.70-AR | -595 |
| 782 | | | | | | | | DGR2-782.55-GM-PL | -596 |
| 783 | Limestone
- Light grey to dark grey/brown, mottled, highly cemented very fine-grained limestone
- Core breaks at mm scale stylolites
- Petroliferous odour
- Massive | 783.20
CR-114 | | | | | | DGR2-784.77-GM-PS | -597 |
| 784 | | | | | | | | DGR2-785.06-AR | -598 |
| 785 | | | | | | | | DGR2-785.06-AR | -599 |
| 786 | Gull River Formation
- Light grey to grey to tan/brown with depth; very fine to medium-grained; locally bioturbated, fossiliferous and locally petroliferous limestone with brown and black shale laminae | 786.25
CR-115 | | | | | | DGR2-787.46-AR | -600 |
| 787 | Limestone
- Light grey, highly cemented very fine-grained limestone
- Dark grey layers of bituminous material within abundant stylolites
- Massive | | | | | | | DGR2-788.21-GM-PL | -601 |
| 788 | Limestone
- Light to dark grey limestone
- Slightly petroliferous at 789.4
- Massive | 789.30
CR-116 | | | | | | DGR2-788.29-GM-PL | -602 |
| 789 | | | | | | | | DGR2-788.44-GM-PS | -603 |
| 790 | | | | | | | | DGR2-790.50-GM-PS | -604 |
| 791 | Limestone
- Grey, highly and thin laminae cemented fine-grained homogeneous limestone
- Black shale layers, hard sparite on fresh core breaks
- Blocky | 792.35
CR-117 | | | | | | DGR2-791.23-AR | -605 |
| 792 | | | | | | | | DGR2-791.81-GM-SL | -606 |
| 793 | | | | | | | | DGR2-792.52-DF-UNB | -607 |
| 794 | | | | | | | | DGR2-792.87-AR | -608 |
| 794 | | | | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|---|---|--|--------------|---------------|---------|------------------|-----------------|---|--|
| 1m:40m
795
796
797
798
799
800
801
802
803
804
805
806
807 | <p>Limestone
- Grey, highly cemented fine-grained homogeneous limestone
- Black shale layers and thin stylitic partings, hard
- Rough fracture in fossiliferous shale zone at 797.9
- Blocky to massive</p> <p>Limestone
- Grey to dark grey, highly cemented fine-grained homogeneous limestone
- Black shale layers and thin stylitic partings, hard and dense
- Sparite on fresh core breaks
- Possible fracture at 799.1
- Blocky</p> <p>Limestone
- Mottled light to dark grey, mottled fine-grained fossiliferous limestone
- Some stylolite layers
- Massive</p> <p>Limestone
- Mottled light grey, mottled fine-grained fossiliferous limestone
- Some stylolite layers
- Core breaks at fine shaley laminae
- Blocky</p> | 795.40
CR-118
798.45
CR-119
801.50
CR-120
804.55
CR-121
807.60 | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | DGR2-794.52-AR
DGR2-794.90-GM-PL
DGR2-795.04-PT
DGR2-796.05-PW-UB
DGR2-796.37-PW-UB
DGR2-796.59-NG-UB
DGR2-796.96-GM-PS
DGR2-797.25-AR
DGR2-797.60-PW-UO
DGR2-798.73-GM-PS
DGR2-799.29-AR
DGR2-800.59-GM-PL
DGR2-803.07-AR
DGR2-803.88-GM-PS
DGR2-806.28-AR
DGR2-806.58-GM-PL
DGR2-806.66-GM-PL | -609
-610
-611
-612
-613
-614
-615
-616
-617
-618
-619
-620
-621 |
| 1m:40m | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 808 | | | | | | | | | -622 |
| | | | | | | | | DGR2-808.68-PW-UB | |
| 809 | | CR-122 | | | | | | | -623 |
| | | | | | | | | DGR2-809.44-GM-SL | |
| | | | | | | | | DGR2-809.66-GM-PS | |
| 810 | Limestone
- Mottled light to dark grey, mottled fine-grained limestone
- Abundant irregular shale laminae and stylolites
- Blocky | 810.65 | | | | | | | -624 |
| 811 | Limestone
- Grey to dark grey, fine-grained limestone
- Laminated with (0.5-7.0 cm) dark grey/black bioturbated bituminous layers, stylolites
- Blocky | | | | | | | | -625 |
| 812 | | CR-123 | | | | | | | -626 |
| 813 | | | | | | | | DGR2-813.00-AR | -627 |
| | | | | | | | | DGR2-813.32-GM-PL | |
| | | | | | | | | DGR2-813.70-PW-UB | |
| 814 | Limestone
- Grey to dark grey, medium to fine-grained nodular limestone with light grey lime mudstone
- Strong petroliferous odour
- Slightly petroliferous zone at 814.3-816.0
- Blocky | 813.70 | | | | | | | -628 |
| 815 | | CR-124 | | | | | | | -629 |
| | | | | | | | | DGR2-814.80-AR | |
| | | | | | | | | DGR2-815.52-NG-UB | |
| 816 | | | | | | | | | -630 |
| | | | | | | | | DGR2-816.42-GM-PS | |
| | | | | | | | | DGR2-816.60-GM-PL | |
| 817 | Dolostone | 816.85 | | | | | | DGR2-816.85-MN | -631 |
| | | 817.20 | | | | | | | |
| 818 | Limestone
- Grey, medium to fine-grained, very hard limestone
- Darker grey to tan irregular laminae
- Calcite nodules
- Slight petroliferous odour and lightly petroliferous zones
- Massive to blocky | | | | | | | | -632 |
| | | CR-125 | | | | | | | |
| 819 | | | | | | | | DGR2-818.61-PT | -633 |
| | | | | | | | | DGR2-819.02-GM-PL | |
| | | | | | | | | DGR2-819.22-AR | |
| | | | | | | | | DGR2-819.52-DF-UNB | |
| 820 | Limestone
- Mottled light grey/tan mottled fine-grained limestone
- Some dark shaley bedding planes
- Massive to fractured | 819.80 | | | | | | DGR2-819.77-GM-PS | -634 |
| 821 | | CR-126 | | | | | | | -635 |
| | | | | | | | | DGR2-821.19-GM-PS | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
|--------------|---|-----------------|--------------|---------------|---------|------------------|-------------------|-------------------|-------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |
| 822 | Limestone
- Mottled light grey/tan mottled fine-grained limestone
- Stylolites
- Massive

Limestone
- Light grey/tan medium to fine-grained limestone
- Abundant dark irregular shale laminae and stylolites
- Trace calcite nodules
- Massive

Limestone
- Grey to dark grey very fine-grained limestone, nodular to tabular bedding
- Abundant stylolites
- Slightly fossiliferous
- Lightly petroliferous zone at 829.3-829.6
- Massive

Limestone
- Grey to dark grey very fine-grained limestone, nodular to tabular bedding
- Abundant stylolites

Shale
- Grey/green calcareous shale
- Massive

Limestone
- Mottled grey/green limestone 834.5-834.6 | 126 | | | | | | DGR2-821.88-AR | -636 | |
| | | | | | | | | | DGR2-822.13-PW-UB | |
| | | | | | | | | | DGR2-822.42-PW-UO | |
| 823 | | 822.85 | | | | | | | DGR2-822.81-AR | -637 |
| 824 | | CR-127 | | | | | | | DGR2-824.19-GM-PL | -638 |
| | | | | | | | | | DGR2-824.40-AR | |
| 825 | | | | | | | | | | -639 |
| 826 | | 825.90 | | | | | | | | -640 |
| 827 | | CR-128 | | | | | | | | -641 |
| 828 | | | | | | | | | DGR2-828.01-AR | -642 |
| | | | | | | | DGR2-828.26-GM-PS | | | |
| 829 | 828.95 | | | | | | | -643 | | |
| 830 | CR-129 | | | | | | | -644 | | |
| | | | | | | | DGR2-830.30-NG-UB | | | |
| 831 | | | | | | | | -645 | | |
| | | | | | | | DGR2-831.33-AR | | | |
| 832 | 832.00 | | | | | | | -646 | | |
| 833 | 833.23 | | | | | | | -647 | | |
| 834 | 834.48 | ICR-130 | | | | | | DGR2-833.79-GM-PS | -648 | |
| | | | | | | | | DGR2-834.05-AR | | |
| | 834.63 | | | | | | | DGR2-834.78-GM-PI | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|--|------------------|--------------|---------------|---------|------------------|-----------------|--------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 835 | Shale
- Grey/green calcareous shale | 835.05 | | | | | | DGR2-835.02-GM-PL | -649 |
| 836 | Limestone
- Grey to dark grey very fine-grained limestone, nodular to tabular bedding medium to thick interbeds of very hard and cemented silty mudstone/shale
- Green/grey hard siltstone layer at 844.0-844.3
- Massive to blocky | CR-131 | | | | | | DGR2-835.73-AR | -650 |
| 837 | | | | | | | | DGR2-836.65-AR | -651 |
| 838 | | 838.10 | | | | | | DGR2-838.43-GM-PL | -652 |
| | | 838.60 | | | | | | DGR2-838.52-GM-PL | -653 |
| 839 | Shadow Lake Formation

- Interbedded grey to light green/grey/brown pyritic and glauconitic siltstone and sandstone with subordinate grey/green sandy shale beds | CR-132 | | | | | | DGR2-839.06-GM-PS | -653 |
| 840 | Interbedded Siltstone and Sandstone
- Layers of grey/green silty sandy mudstone/siltstone and glauconitic sandstone with stylolites
- Laminated grey mudstone/shale below 839.7
- Sandstone layers are moderately petroliferous
- Massive | | | | | | | DGR2-839.89-AR | -654 |
| 841 | | 841.15 | | | | | | DGR2-840.26-PW-UB | -655 |
| 842 | Interbedded Siltstone and Sandstone
- Layers of grey/green silty sandy mudstone/siltstone and glauconitic sandstone
- Increasing grain size with depth
- Pyrite inclusions in glauconitic sandstone layers
- Massive to blocky | CR-133 | | | | | | DGR2-842.23-PW-UB | -656 |
| 843 | | | | | | | | | -657 |
| | | 843.80 | | | | | | | -658 |
| 844 | Cambrian
- Mottled grey to tan, medium-grained dolomitic quartz sandstone with brown to light grey dolostone interbeds in upper part | 844.29 | | | | | | | -658 |
| 845 | Dolostone
- Light grey, fine-grained, hard, slightly vuggy dolostone 843.8-844.3 | CR-134 | | | | | | DGR2-844.95-MN | -659 |
| 846 | Sandstone
- Tan to grey fine to medium-grained very hard, well cemented
- Sandy quartz siltstone/sandstone changes from siltstone to sandstone
- Fractured to blocky | | | | | | | DGR2-845.96-PT | -660 |
| 847 | | 846.88 | | | | | | DGR2-846.17-DF-UNB | -661 |
| 848 | Sandstone
- Light grey/ tan sandy siltstone/sandstone, fine to medium-grained very hard, well cemented
- Various layers of light green to tan to pink, very fine to medium-grained siltstone/sandstone
- Light grey to tan, very hard, medium to fine-grained interbedded sandstone/dolostone
- Light to medium grey, medium to fine-grained, well cemented | CR-135
CR-136 | | | | | | | -662 |
| | | 847.50
847.77 | | | | | | | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
|--------------|--|------------------|--------------|---------------|---------|------------------|-----------------|----------------|-------------------|------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |
| 849 | Light to medium grey, medium to fine-grained, well cemented sandstone, very hard | CR-137
848.13 | | | | | | DGR2-848.44-AR | -663 | |
| | - Light grey to light tan, medium to fine-grained sandy dolostone | CR-138
849.09 | | | | | | | | |
| | - Light brown to tan, well sorted, medium-grained abundantly vuggy sandstone | CR-139
849.24 | | | | | | | | |
| 850 | - Light brown to tan, well sorted, medium to fine-grained sandstone | CR-140
849.74 | | | | | | | | |
| | - Trace calcite nodules and trace glauconite | CR-141
850.32 | | | | | | | DGR2-852.10-AR | -664 |
| | - Light grey/tan, well sorted, medium-grained very dense, well cemented sandstone | CR-142
850.67 | | | | | | | DGR2-852.39-PW-UB | -665 |
| 851 | - Interbedded grey, fine-grained dolostone with quartzitic sandstone | CR-143
853.72 | | | | | | | | -666 |
| | - Localized irregular thin laminae shale/glauconite stringers | CR-144 | | | | | | | | |
| | - Cream, coarse-grained, trace glauconite plus localized irregular thin shale/glauconite laminae sandstone below 851.9 | CR-145
856.77 | | | | | | | DGR2-854.73-AR | -667 |
| 852 | Sandstone | CR-146
860.70 | | | | | | | | -668 |
| | - Cream to orange brown, coarse-grained quartz sandstone | | | | | | | | DGR2-855.89-PW-UB | -669 |
| | - Trace glauconite and localized irregular, thin, shale/glauconite laminae | | | | | | | | | |
| 853 | Sandstone | | | | | | | | | -670 |
| | - Cream to orange brown, coarse-grained quartz sandstone | | | | | | | | DGR2-857.22-PW-UB | -671 |
| | - Trace glauconite and localized irregular, thin, shale glauconite laminae | | | | | | | | | |
| 854 | Sandstone | | | | | | | | -672 | |
| | - Layers of cream to tan, coarse-grained, quartz sandstone with trace glauconite with light green to pink, fine-grained less porous sandstone with irregular, thin, glauconite and shale laminae | | | | | | | DGR2-857.71-AR | -673 | |
| 855 | | | | | | | | | | |
| 856 | | | | | | | | | -674 | |
| 857 | | | | | | | | | | |
| 858 | | | | | | | | | | |
| 859 | | | | | | | | | | |
| 860 | | | | | | | | | | |
| 861 | Precambrian Basement | | | | | | | | -675 | |
| | - Pink to grey, very fine to medium-grained, granite gneiss | | | | | | | DGR2-861.20-AR | | |
| | | | | | | | | DGR2-861.53-MS | | |
| | | | | | | | | DGR2-861.73-AR | -676 | |
| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) | |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | | |

| Depth (mBGS) | Stratigraphic Description | Core Run (mBGS) | Stratigraphy | Core Recovery | R.Q.D. | Nat. Frac. Freq. | Core Axis Angle | Sample ID | Elev. (mASL) |
|--------------|---------------------------|-----------------|--------------|---------------|---------|------------------|-----------------|-------------------|--------------|
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| 862 | | 862.25 | | | | | | DGRZ-861.90-PW-UB | |
| | END OF HOLE 862.25 | | | | | | | | -677 |
| 1m:40m | | | | 100 % 0 | 100 % 0 | 0 /m 5 | 0-----90 | | |
| | | | | | | | | | |

Prepared by: MAM
Checked by: ADW, KGR

Doc. TR-07-06_DGR2_R2



APPENDIX E

Examples of Core Photography



Example of Six Sequential Core Run Photos – DGR-1, Core Run 70 (185.32 to 188.37 m bgs)
Technical Report: TR-07-06 Drilling, Logging and Sampling of DGR-1 and DGR-2

Prepared by: NKP
Reviewed by: KGR
Date: Feb 28, 2008

FIGURE E.1

TR-07-06_Core Run Photos.doc





DGR-1, CR018



DGR-1, CR129



DGR-1, CR145



DGR-2, CR017



DGR-2, CR031



DGR-2, CR085

Example of Close-up Photographs of Core Features
Technical Report: TR-07-06 Drilling, Logging and Sampling of DGR-1 and DGR-2

Prepared by: NKP

Reviewed by: KGR

Date: Feb 28, 2008

FIGURE E.2

TR-07-06_Core Close up Photos.doc





DGR-1, CR036



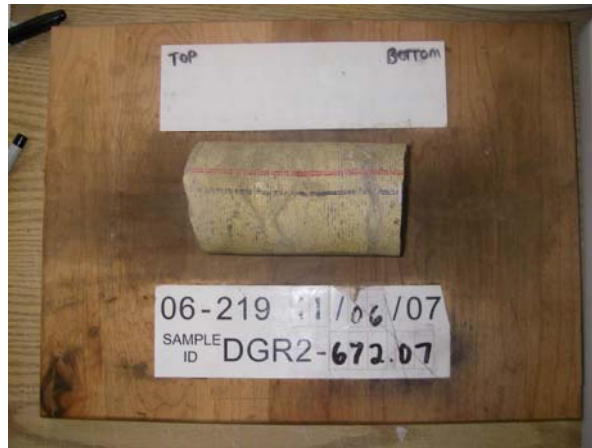
DGR-1, CR082



DGR-1, CR132



DGR-2, CR014



DGR-2, CR074



DGR-2, CR133

Example of Photographs of Core Sub-Samples
Technical Report: TR-07-06 Drilling, Logging and Sampling of DGR-1 and DGR-2

Prepared by: NKP

Reviewed by: KGR

Date: Feb 28, 2008

FIGURE E.3

TR-07-06_Core Sub-Samples.doc





DGR-1, CR012



DGR-1, CR133



DGR-2, CR045



DGR-2, CR146

Example of Photographs of Core Boxes
 Technical Report: TR-07-06 Drilling, Logging and Sampling of DGR-1 and DGR-2

Prepared by: NKP

Reviewed by: KGR

Date: Feb 28, 2008

FIGURE E.4

TR-07-06_Core Box Photos.doc



APPENDIX F

Summary of Core Samples Collected from DGR-1 and DGR-2

Table F.1 Summary of Core Sample Collection from DGR-1 and DGR-2

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|-------------|--------------------------------|------------------------------|--------------------------------|
| DGR1 | | | | | | | |
| DGR1-027.30 | 2 | 26-Jan-07 | 40 | Amherstburg | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-028.22 | 2 | 26-Jan-07 | 35 | Amherstburg | Unibern - Noble gases | | |
| DGR1-029.38 | 3 | 26-Jan-07 | 36 | Amherstburg | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-029.65 | 3 | 26-Jan-07 | 20 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-030.39 | 3 | 26-Jan-07 | 6 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-033.92 | 4 | 26-Jan-07 | 5.85 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-034.01 | 4 | 26-Jan-07 | 11 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-034.81 | 4 | 26-Jan-07 | 14 | Amherstburg | Slake Durability | | |
| DGR1-038.50 | 6 | 30-Jan-07 | 17.8 | Amherstburg | P&S Testing | | |
| DGR1-038.95 | 6 | 30-Jan-07 | 11.5 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-039.05 | 6 | 30-Jan-07 | 5.16 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-043.26 | 8 | 1-Feb-07 | 7.8 | Amherstburg | Archive | | |
| DGR1-043.80 | 8 | 1-Feb-07 | 6.8 | Amherstburg | U of O - Noble gases | | |
| DGR1-044.47 | 9 | 1-Feb-07 | 4.4 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-044.59 | 9 | 1-Feb-07 | 14.7 | Amherstburg | U of O - Noble gases | | |
| DGR1-044.80 | 9 | 1-Feb-07 | 26.4 | Amherstburg | U of O - Noble Gases | | |
| DGR1-045.18 | 9 | 1-Feb-07 | 12.7 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-045.39 | 9 | 1-Feb-07 | 21 | Amherstburg | Archive | | |
| DGR1-049.16 | 10 | 2-Feb-07 | 12 | Amherstburg | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-049.28 | 10 | 2-Feb-07 | 5.26 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-049.36 | 10 | 2-Feb-07 | 10.5 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-051.71 | 11 | 2-Feb-07 | 28 | Amherstburg | Archive | | |
| DGR1-052.13 | 11 | 2-Feb-07 | 17.4 | Amherstburg | P&S Testing | | |
| DGR1-056.04 | 12 | 3-Feb-07 | 6.15 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-056.17 | 12 | 3-Feb-07 | 9.03 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-060.04 | 14 | 3-Feb-07 | 11.8 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-060.60 | 14 | 3-Feb-07 | 4.2 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-060.88 | 14 | 3-Feb-07 | 11.7 | Amherstburg | Archive | | |
| DGR1-064.18 | 15 | 4-Feb-07 | 17.5 | Amherstburg | P&S Testing | | |
| DGR1-066.42 | 16 | 4-Feb-07 | 3.4 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-067.13 | 16 | 4-Feb-07 | 13.4 | Amherstburg | Archive | | |
| DGR1-068.03 | 16 | 4-Feb-07 | 12 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-070.23 | 17 | 7-Feb-07 | 4.2 | Amherstburg | Point Load Testing - Axial | | |
| DGR1-070.66 | 17 | 7-Feb-07 | 12.2 | Amherstburg | Point Load Testing - Diametral | | |
| DGR1-070.84 | 17 | 7-Feb-07 | 17.55 | Amherstburg | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-075.09 | 20 | 16-Feb-07 | 13.23 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-075.66 | 20 | 16-Feb-07 | 5.5 | Bois Blanc | Point Load Testing - Axial | | |
| DGR1-076.05 | 20 | 16-Feb-07 | 8 | Bois Blanc | Unibern - Noble gases | | |
| DGR1-076.14 | 20 | 16-Feb-07 | 8 | Bois Blanc | Unibern - Noble gases | | |
| DGR1-076.30 | 20 | 16-Feb-07 | 11 | Bois Blanc | Unibern - Noble gases | | |
| DGR1-078.82 | 21 | 17-Feb-07 | 12.17 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-079.21 | 21 | 17-Feb-07 | 6.7 | Bois Blanc | Point Load Testing - Axial | | |
| DGR1-081.26 | 22 | 18-Feb-07 | 13.2 | Bois Blanc | Archive | | |
| DGR1-087.19 | 24 | 18-Feb-07 | 9.5 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-087.45 | 24 | 18-Feb-07 | 5.2 | Bois Blanc | Point Load Testing - Axial | | |
| DGR1-094.33 | 26 | 20-Feb-07 | 8.6 | Bois Blanc | Archive | | |
| DGR1-096.47 | 27 | 21-Feb-07 | 3.9 | Bois Blanc | Point Load Testing - Axial | | |
| DGR1-096.72 | 27 | 21-Feb-07 | 9.6 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-097.08 | 27 | 21-Feb-07 | 11.9 | Bois Blanc | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-099.48 | 28 | 21-Feb-07 | 0 | Bois Blanc | Unibern - Noble gases | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------|--------------------------------|--------------------------------|--------------------------------|
| DGR1-099.60 | 28 | 21-Feb-07 | 0 | Bois Blanc | Unibern - Noble gases | | |
| DGR1-099.93 | 28 | 21-Feb-07 | 12 | Bois Blanc | Archive | | |
| DGR1-100.05 | 28 | 21-Feb-07 | 5.1 | Bois Blanc | Point Load Testing - Axial | | |
| DGR1-100.30 | 28 | 21-Feb-07 | 8 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-101.89 | 29 | 21-Feb-07 | 10 | Bois Blanc | U of O - Pore Water | | |
| DGR1-101.99 | 29 | 21-Feb-07 | 10 | Bois Blanc | U of O - Pore Water | | |
| DGR1-102.26 | 29 | 21-Feb-07 | 7.6 | Bois Blanc | U of O - Noble gases | U of O - Pore Water | |
| DGR1-102.50 | 30 | 21-Feb-07 | 15 | Bois Blanc | Archive | | |
| DGR1-102.66 | 30 | 21-Feb-07 | 16.5 | Bois Blanc | P&S Testing | | |
| DGR1-104.69 | 30 | 21-Feb-07 | 11.5 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-106.00 | 31 | 21-Feb-07 | 15 | Bois Blanc | Archive | | |
| DGR1-108.62 | 32 | 21-Feb-07 | 19 | Bois Blanc | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-108.92 | 32 | 21-Feb-07 | 17 | Bois Blanc | Archive | | |
| DGR1-110.23 | 32 | 21-Feb-07 | 9.5 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-110.60 | 32 | 21-Feb-07 | 5 | Bois Blanc | Point Load Testing - Axial | | |
| DGR1-113.95 | 34 | 21-Feb-07 | 0 | Bois Blanc | Archive | | |
| DGR1-114.74 | 35 | 23-Feb-07 | 14 | Bois Blanc | Archive | | |
| DGR1-114.91 | 35 | 23-Feb-07 | 19 | Bois Blanc | Archive | | |
| DGR1-115.61 | 35 | 23-Feb-07 | 14.1 | Bois Blanc | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-117.31 | 35 | 23-Feb-07 | 9 | Bois Blanc | Archive | | |
| DGR1-118.28 | 36 | 23-Feb-07 | 20.6 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-119.33 | 36 | 23-Feb-07 | 21 | Bois Blanc | Archive | | |
| DGR1-121.32 | 37 | 24-Feb-07 | 9.45 | Bois Blanc | Point Load Testing - Diametral | | |
| DGR1-121.48 | 37 | 24-Feb-07 | 15 | Bois Blanc | Unibern - Noble gases | | |
| DGR1-121.62 | 37 | 24-Feb-07 | 12 | Bois Blanc | Unibern - Noble gases | | |
| DGR1-121.76 | 37 | 24-Feb-07 | 10 | Bois Blanc | Unibern - Noble gases | | |
| DGR1-123.12 | 38 | 24-Feb-07 | 6.1 | Bois Blanc | Point Load Testing - Axial | | |
| DGR1-124.09 | 39 | 24-Feb-07 | 11.37 | Bass Islands | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-129.33 | 41 | 25-Feb-07 | 5.1 | Bass Islands | Point Load Testing - Axial | | |
| DGR1-130.03 | 42 | 25-Feb-07 | 9.8 | Bass Islands | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-132.49 | 44 | 26-Feb-07 | 4.3 | Bass Islands | Point Load Testing - Axial | | |
| DGR1-132.77 | 44 | 26-Feb-07 | 7.8 | Bass Islands | Point Load Testing - Diametral | | |
| DGR1-134.27 | 45 | 27-Feb-07 | 14 | Bass Islands | Slake Durability | | |
| DGR1-134.57 | 45 | 26-Feb-07 | 4 | Bass Islands | Point Load Testing - Axial | | |
| DGR1-138.57 | 47 | 27-Feb-07 | 9 | Bass Islands | Unibern - Noble gases | | |
| DGR1-138.67 | 47 | 27-Feb-07 | 7 | Bass Islands | Unibern - Noble gases | | |
| DGR1-138.78 | 47 | 27-Feb-07 | 6.5 | Bass Islands | Unibern - Noble gases | | |
| DGR1-139.11 | 47 | 27-Feb-07 | 20 | Bass Islands | Archive | | |
| DGR1-144.67 | 50 | 28-Feb-07 | 5.96 | Bass Islands | Point Load Testing - Axial | | |
| DGR1-146.38 | 51 | 28-Feb-07 | 7.65 | Bass Islands | Point Load Testing - Diametral | | |
| DGR1-154.54 | 55 | 1-Mar-07 | 6 | Bass Islands | Unibern - Noble gases | | |
| DGR1-154.82 | 55 | 1-Mar-07 | 7 | Bass Islands | Unibern - Noble gases | | |
| DGR1-155.24 | 55 | 1-Mar-07 | 7 | Bass Islands | Unibern - Noble gases | | |
| DGR1-156.56 | 56 | 1-Mar-07 | 6 | Bass Islands | U of O - Noble gases | | |
| DGR1-156.63 | 56 | 1-Mar-07 | 7 | Bass Islands | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-160.93 | 58 | 1-Mar-07 | 30 | Bass Islands | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-161.19 | 58 | 1-Mar-07 | 6.5 | Bass Islands | Point Load Testing - Axial | | |
| DGR1-162.86 | 59 | 1-Mar-07 | 13 | Bass Islands | Point Load Testing - Diametral | | |
| DGR1-163.21 | 59 | 1-Mar-07 | 9.1 | Bass Islands | Point Load Testing - Diametral | | |
| DGR1-165.08 | 60 | 1-Mar-07 | 7.8 | Bass Islands | Point Load Testing - Diametral | | |
| DGR1-166.59 | 61 | 1-Mar-07 | 6.8 | Bass Islands | Archive | | |
| DGR1-169.23 | 62 | 1-Mar-07 | 19.5 | Bass Islands | Slake Durability | | |
| DGR1-169.45 | 62 | 1-Mar-07 | 8.6 | Bass Islands | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-170.09 | 62 | 1-Mar-07 | 32.6 | Bass Islands | Archive | | |
| DGR1-171.14 | 63 | 1-Mar-07 | 18 | Bass Islands | P&S Testing - Canmet | UCS - Canmet | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis - 2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|---------------|--------------------------------|--------------------------------|--------------------------------|
| DGR1-171.61 | 63 | 1-Mar-07 | 8.7 | Bass Islands | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-172.32 | 63 | 1-Mar-07 | 7 | Bass Islands | U of O - Noble gases | | |
| DGR1-178.09 | 66 | 2-Mar-07 | 14.5 | Salina G Unit | Slake Durability | | |
| DGR1-178.20 | 66 | 2-Mar-07 | 7.7 | Salina G Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-178.30 | 66 | 2-Mar-07 | 13.5 | Salina G Unit | Archive | | |
| DGR1-179.93 | 67 | 2-Mar-07 | 13 | Salina G Unit | Slake Durability | | |
| DGR1-180.25 | 67 | 2-Mar-07 | 8.5 | Salina G Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-180.65 | 67 | 2-Mar-07 | 27 | Salina G Unit | Unibern - Noble gases | | |
| DGR1-181.89 | 68 | 2-Mar-07 | 9.3 | Salina G Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-182.49 | 68 | 2-Mar-07 | 36 | Salina G Unit | Archive | | |
| DGR1-182.76 | 68 | 2-Mar-07 | 26 | Salina G Unit | P&S Testing | | |
| DGR1-182.89 | 68 | 2-Mar-07 | 10.5 | Salina G Unit | U of O - Noble gases | | |
| DGR1-183.60 | 69 | 26-Mar-07 | 28 | Salina F Unit | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-185.01 | 69 | 26-Mar-07 | 31 | Salina F Unit | Unibern - Noble gases | | |
| DGR1-185.62 | 70 | 26-Mar-07 | 6 | Salina F Unit | Point Load Testing - Axial | | |
| DGR1-185.97 | 70 | 26-Mar-07 | 29 | Salina F Unit | Archive | | |
| DGR1-186.88 | 70 | 26-Mar-07 | 19.1 | Salina F Unit | Point Load Testing - Diametral | | |
| DGR1-193.64 | 72 | 26-Mar-07 | 12.5 | Salina F Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-193.87 | 72 | 26-Mar-07 | 18 | Salina F Unit | P&S Testing | | |
| DGR1-194.33 | 72 | 26-Mar-07 | 28 | Salina F Unit | Unibern - Noble gases | | |
| DGR1-195.18 | 73 | 26-Mar-07 | 14.9 | Salina F Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-195.41 | 73 | 26-Mar-07 | 28 | Salina F Unit | Archive | | |
| DGR1-197.45 | 73 | 26-Mar-07 | 14 | Salina F Unit | U of O - Noble gases | | |
| DGR1-198.66 | 74 | 27-Mar-07 | 14.5 | Salina F Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-202.15 | 75 | 27-Mar-07 | 12.2 | Salina F Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-204.14 | 76 | 27-Mar-07 | 9 | Salina F Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-206.55 | 76 | 27-Mar-07 | 20 | Salina F Unit | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-206.79 | 77 | 27-Mar-07 | 24 | Salina F Unit | Archive | | |
| DGR1-209.80 | 78 | 27-Mar-07 | 16.8 | Salina F Unit | Point Load Testing - Diametral | | |
| DGR1-213.42 | 79 | 27-Mar-07 | 4.8 | Salina F Unit | Point Load Testing - Axial | | |
| DGR1-213.57 | 79 | 27-Mar-07 | 18.33 | Salina F Unit | Point Load Testing - Diametral | | |
| DGR1-219.45 | 81 | 27-Mar-07 | 9.93 | Salina F Unit | Point Load Testing - Diametral | | |
| DGR1-220.50 | 81 | 27-Mar-07 | 6.1 | Salina F Unit | Point Load Testing - Axial | | |
| DGR1-221.45 | 81 | 27-Mar-07 | 26 | Salina F Unit | Archive | | |
| DGR1-224.85 | 82 | 27-Mar-07 | 26 | Salina E Unit | Unibern - Noble gases | | |
| DGR1-226.27 | 83 | 27-Mar-07 | 14 | Salina E Unit | U of O - Noble gases | | |
| DGR1-226.48 | 83 | 27-Mar-07 | 11.5 | Salina E Unit | Point Load Testing - Diametral | | |
| DGR1-227.09 | 83 | 27-Mar-07 | 3.5 | Salina E Unit | Point Load Testing - Axial | | |
| DGR1-227.24 | 83 | 27-Mar-07 | 24 | Salina E Unit | P&S Testing | | |
| DGR1-228.81 | 84 | 27-Mar-07 | 14 | Salina E Unit | Point Load Testing - Diametral | | |
| DGR1-228.92 | 84 | 27-Mar-07 | 3.8 | Salina E Unit | Point Load Testing - Axial | | |
| DGR1-230.08 | 84 | 27-Mar-07 | 33 | Salina E Unit | Archive | | |
| DGR1-231.49 | 85 | 27-Mar-07 | 13 | Salina E Unit | ActLabs - mineralogy/petrology | ActLabs - lithogeochemistry | ActLabs - SEM - Pore Structure |
| DGR1-235.94 | 86 | 27-Mar-07 | 14.5 | Salina E Unit | Point Load Testing - Diametral | | |
| DGR1-236.32 | 86 | 27-Mar-07 | 19 | Salina E Unit | P&S Testing | | |
| DGR1-242.12 | 88 | 28-Mar-07 | 9.5 | Salina E Unit | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-243.14 | 88 | 28-Mar-07 | 26 | Salina D Unit | Archive | | |
| DGR1-245.92 | 89 | 27-Mar-07 | 10.3 | Salina C Unit | Point Load Testing - Diametral | | |
| DGR1-249.33 | 90 | 28-Mar-07 | 10 | Salina C Unit | U of O - Noble gases | | |
| DGR1-249.52 | 91 | 28-Mar-07 | 10 | Salina C Unit | Point Load Testing - Axial | | |
| DGR1-251.19 | 91 | 28-Mar-07 | 20 | Salina C Unit | P&S Testing | | |
| DGR1-251.43 | 91 | 28-Mar-07 | 20 | Salina C Unit | Slake Durability | | |
| DGR1-253.40 | 92 | 28-Mar-07 | 28 | Salina C Unit | Slake Durability | | |
| DGR1-254.79 | 92 | 28-Mar-07 | 22 | Salina C Unit | Archive | | |
| DGR1-255.58 | 93 | 28-Mar-07 | 22 | Salina C Unit | Slake Durability | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|
| DGR1-257.15 | 93 | 28-Mar-07 | 5.1 | Salina C Unit | Point Load Testing - Axial | | |
| DGR1-257.65 | 93 | 28-Mar-07 | 14.47 | Salina C Unit | Point Load Testing - Diametral | | |
| DGR1-258.36 | 93 | 28-Mar-07 | 34 | Salina C Unit | Unibern - Noble gases | | |
| DGR1-260.85 | 94 | 28-Mar-07 | 31 | Salina B Unit Carbonate | Archive | | |
| DGR1-261.68 | 95 | 28-Mar-07 | 20.6 | Salina B Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-262.04 | 95 | 28-Mar-07 | 4.45 | Salina B Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-264.71 | 96 | 28-Mar-07 | 18 | Salina B Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-266.20 | 96 | 28-Mar-07 | 17.9 | Salina B Unit Carbonate | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-267.60 | 96 | 28-Mar-07 | 3.2 | Salina B Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-267.78 | 97 | 28-Mar-07 | 22 | Salina B Unit Carbonate | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-270.89 | 98 | 28-Mar-07 | 34 | Salina B Unit Carbonate | Archive | | |
| DGR1-273.35 | 98 | 28-Mar-07 | 20 | Salina B Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-273.48 | 98 | 28-Mar-07 | 5.8 | Salina B Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-274.59 | 99 | 28-Mar-07 | 18.9 | Salina B Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-275.49 | 99 | 28-Mar-07 | 3.8 | Salina B Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-282.11 | 101 | 28-Mar-07 | 13 | Salina B Unit Carbonate | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-282.34 | 101 | 28-Mar-07 | 34 | Salina B Unit Carbonate | Archive | | |
| DGR1-285.89 | 102 | 28-Mar-07 | 13.7 | Salina B Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-286.69 | 103 | 30-Mar-07 | 18 | Salina B Unit Carbonate | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-288.65 | 103 | 30-Mar-07 | 0 | Salina B Unit Carbonate | Unibern - Noble gases | | |
| DGR1-290.37 | 104 | 30-Mar-07 | 7.1 | Salina B Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-290.48 | 104 | 30-Mar-07 | 11.6 | Salina B Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-292.58 | 105 | 30-Mar-07 | 30 | Salina B Unit Anhydrite | Archive | | |
| DGR1-294.70 | 105 | 30-Mar-07 | 10.2 | Salina A2 Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-294.84 | 105 | 30-Mar-07 | 11 | Salina A2 Unit Carbonate | U of O - Noble gases | | |
| DGR1-294.95 | 105 | 30-Mar-07 | 2.9 | Salina A2 Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-298.37 | 107 | 30-Mar-07 | 4.7 | Salina A2 Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-298.45 | 107 | 30-Mar-07 | 11.5 | Salina A2 Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-301.94 | 108 | 30-Mar-07 | 26 | Salina A2 Unit Carbonate | Archive | | |
| DGR1-307.08 | 109 | 30-Mar-07 | 15 | Salina A2 Unit Carbonate | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-311.14 | 111 | 31-Mar-07 | 20 | Salina A2 Unit Carbonate | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-314.88 | 112 | 31-Mar-07 | 17.5 | Salina A2 Unit Carbonate | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-315.17 | 112 | 31-Mar-07 | 14 | Salina A2 Unit Carbonate | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-317.23 | 113 | 31-Mar-07 | 21 | Salina A2 Unit Carbonate | Archive | | |
| DGR1-320.83 | 114 | 31-Mar-07 | 13.8 | Salina A2 Unit Evaporite | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-322.19 | 114 | 31-Mar-07 | 29 | Salina A2 Unit Evaporite | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-324.09 | 115 | 31-Mar-07 | 11 | Salina A2 Unit Evaporite | Point Load Testing - Diametral | | |
| DGR1-324.16 | 115 | 31-Mar-07 | 4.2 | Salina A2 Unit Evaporite | Point Load Testing - Axial | | |
| DGR1-327.94 | 116 | 31-Mar-07 | 32 | Salina A2 Unit Evaporite | Archive | | |
| DGR1-329.70 | 117 | 31-Mar-07 | 5.3 | Salina A1 Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-329.85 | 117 | 31-Mar-07 | 11.5 | Salina A1 Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-334.45 | 118 | 31-Mar-07 | 34 | Salina A1 Unit Carbonate | Unibern - Noble gases | | |
| DGR1-336.08 | 119 | 31-Mar-07 | 11.25 | Salina A1 Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-336.17 | 119 | 31-Mar-07 | 6 | Salina A1 Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-337.63 | 119 | 31-Mar-07 | 28 | Salina A1 Unit Carbonate | Archive | | |
| DGR1-340.62 | 120 | 31-Mar-07 | 5.1 | Salina A1 Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-340.69 | 120 | 31-Mar-07 | 10.1 | Salina A1 Unit Carbonate | Point Load Testing - Diametral | | |
| DGR1-340.82 | 120 | 31-Mar-07 | 17.5 | Salina A1 Unit Carbonate | P&S Testing | | |
| DGR1-343.49 | 121 | 31-Mar-07 | 12 | Salina A1 Unit Carbonate | U of O - Noble gases | | |
| DGR1-346.55 | 122 | 31-Mar-07 | 18.4 | Salina A1 Unit Carbonate | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-347.80 | 123 | 31-Mar-07 | 25 | Salina A1 Unit Carbonate | Archive | | |
| DGR1-351.37 | 124 | 1-Apr-07 | 9.5 | Salina A1 Unit Carbonate | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-354.02 | 125 | 1-Apr-07 | 21 | Salina A1 Unit Carbonate | P&S Testing | | |
| DGR1-357.42 | 126 | 1-Apr-07 | 12.7 | Salina A1 Unit Carbonate | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-358.92 | 126 | 1-Apr-07 | 21 | Salina A1 Unit Carbonate | Archive | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis - 2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|
| DGR1-359.97 | 127 | 1-Apr-07 | 3.9 | Salina A1 Unit Carbonate | Point Load Testing - Axial | | |
| DGR1-361.76 | 127 | 1-Apr-07 | 16 | Salina A1 Unit Carbonate | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-367.06 | 129 | 1-Apr-07 | 18 | Salina A1 Unit Evaporite | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-367.33 | 129 | 1-Apr-07 | 33.4 | Salina A1 Unit Evaporite | Archive | | |
| DGR1-367.56 | 129 | 1-Apr-07 | 12.4 | Salina A1 Unit Evaporite | Point Load Testing - Diametral | | |
| DGR1-367.65 | 129 | 1-Apr-07 | 4.9 | Salina A1 Unit Evaporite | Point Load Testing - Axial | | |
| DGR1-368.14 | 129 | 1-Apr-07 | 37 | Salina A1 Unit Evaporite | Unibern - Noble gases | | |
| DGR1-369.95 | 130 | 1-Apr-07 | 34 | Salina A1 Unit Evaporite | Archive | | |
| DGR1-370.14 | 130 | 1-Apr-07 | 4.8 | Salina A1 Unit Evaporite | Point Load Testing - Axial | | |
| DGR1-370.22 | 130 | 1-Apr-07 | 16.8 | Salina A1 Unit Evaporite | Point Load Testing - Diametral | | |
| DGR1-370.93 | 130 | 1-Apr-07 | 12.1 | Salina A0 Unit | U of O - Noble gases | | |
| DGR1-375.26 | 132 | 2-Apr-07 | 5.5 | Guelph | Point Load Testing - Axial | | |
| DGR1-375.36 | 132 | 2-Apr-07 | 14.5 | Guelph | Point Load Testing - Diametral | | |
| DGR1-380.38 | 133 | 2-Apr-07 | 12.1 | Goat Island | Point Load Testing - Diametral | | |
| DGR1-380.47 | 133 | 2-Apr-07 | 4.4 | Goat Island | Point Load Testing - Axial | | |
| DGR1-381.75 | 134 | 2-Apr-07 | 40 | Goat Island | Archive | | |
| DGR1-383.28 | 134 | 2-Apr-07 | 10.7 | Goat Island | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-386.19 | 135 | 2-Apr-07 | 14.2 | Goat Island | Point Load Testing - Diametral | | |
| DGR1-386.28 | 135 | 2-Apr-07 | 4.9 | Goat Island | Point Load Testing - Axial | | |
| DGR1-386.55 | 135 | 2-Apr-07 | 17.5 | Goat Island | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-388.24 | 136 | 2-Apr-07 | 35 | Goat Island | Archive | | |
| DGR1-391.24 | 137 | 2-Apr-07 | 15 | Goat Island | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-394.66 | 138 | 2-Apr-07 | 11.5 | Goat Island | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR1-394.83 | 138 | 2-Apr-07 | 18 | Goat Island | P&S Testing | | |
| DGR1-395.20 | 138 | 2-Apr-07 | 3 | Goat Island | Point Load Testing - Axial | | |
| DGR1-395.29 | 138 | 2-Apr-07 | 13 | Goat Island | U of O - Noble gases | | |
| DGR1-398.08 | 139 | 2-Apr-07 | 31 | Goat Island | Unibern - Noble gases | | |
| DGR1-399.85 | 140 | 3-Apr-07 | 14 | Goat Island | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-401.35 | 140 | 3-Apr-07 | 13 | Gasport | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-402.00 | 141 | 3-Apr-07 | 26 | Gasport | Archive | | |
| DGR1-406.32 | 142 | 3-Apr-07 | 19 | Lions Head | P&S Testing | | |
| DGR1-406.95 | 142 | 3-Apr-07 | 10.5 | Lions Head | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-410.33 | 143 | 3-Apr-07 | 13.9 | Fossil Hill | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-411.94 | 144 | 3-Apr-07 | 19.5 | Cabot Head | Slake Durability | | |
| DGR1-412.57 | 144 | 3-Apr-07 | 40 | Cabot Head | Archive | | |
| DGR1-415.16 | 145 | 3-Apr-07 | 17.2 | Cabot Head | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-416.09 | 145 | 3-Apr-07 | 10.1 | Cabot Head | Point Load Testing - Diametral | | |
| DGR1-416.95 | 145 | 3-Apr-07 | 5 | Cabot Head | Point Load Testing - Axial | | |
| DGR1-417.01 | 145 | 3-Apr-07 | 4.43 | Cabot Head | Point Load Testing - Axial | | |
| DGR1-419.99 | 146 | 3-Apr-07 | 13 | Cabot Head | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM - Pore Structure |
| DGR1-421.90 | 147 | 3-Apr-07 | 10.1 | Cabot Head | Point Load Testing - Diametral | | |
| DGR1-422.19 | 147 | 3-Apr-07 | 14 | Cabot Head | Unibern - Noble gases | | |
| DGR1-422.29 | 147 | 3-Apr-07 | 3.9 | Cabot Head | Point Load Testing - Axial | | |
| DGR1-422.40 | 147 | 3-Apr-07 | 13.3 | Cabot Head | U of O - Noble gases | | |
| DGR1-422.97 | 147 | 3-Apr-07 | 33 | Cabot Head | Unibern - Noble gases | | |
| DGR1-424.18 | 148 | 3-Apr-07 | 26 | Cabot Head | Slake Durability | | |
| DGR1-424.44 | 148 | 3-Apr-07 | 36 | Cabot Head | Archive | | |
| DGR1-429.33 | 149 | 3-Apr-07 | 11.6 | Cabot Head | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-430.92 | 150 | 3-Apr-07 | 3.2 | Cabot Head | Point Load Testing - Axial | | |
| DGR1-432.20 | 150 | 3-Apr-07 | 13 | Manitoulin | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR1-433.03 | 151 | 3-Apr-07 | 32 | Manitoulin | Archive | | |
| DGR1-434.24 | 151 | 3-Apr-07 | 34 | Manitoulin | Slake Durability | | |
| DGR1-437.58 | 152 | 3-Apr-07 | 9.5 | Manitoulin | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-438.10 | 152 | 3-Apr-07 | 18 | Manitoulin | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-443.10 | 154 | 4-Apr-07 | 17.5 | Manitoulin | P&S Testing | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|------------|---|--------------------------------|--------------------------------|
| DGR1-445.49 | 155 | 4-Apr-07 | 8 | Manitoulin | Unibern - Noble gases | | |
| DGR1-445.60 | 155 | 4-Apr-07 | 13 | Manitoulin | U of O - Pore Water | | |
| DGR1-446.25 | 155 | 4-Apr-07 | 18 | Manitoulin | ActLabs - mineralogy/petrology | ActLabs - lithogeochemistry | ActLabs - SEM - Pore Structure |
| DGR1-446.40 | 155 | 4-Apr-07 | 12 | Manitoulin | Point Load Testing - Axial | | |
| DGR1-446.92 | 155 | 4-Apr-07 | 24 | Manitoulin | Archive | | |
| DGR1-449.30 | 156 | 4-Apr-07 | 35.5 | Queenston | Archive | | |
| DGR1-449.37 | 156 | 4-Apr-07 | 14.2 | Queenston | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-450.45 | 156 | 4-Apr-07 | 34 | Queenston | Unibern - Noble gases | | |
| DGR1-451.39 | 157 | 4-Apr-07 | 29 | Queenston | US Geological Survey | | |
| DGR1-454.82 | 158 | 4-Apr-07 | 37 | Queenston | UNB - Diffusion-related Preparation Testing | | |
| DGR1-455.07 | 158 | 4-Apr-07 | 14 | Queenston | U of O - Noble gases | | |
| DGR1-455.22 | 158 | 4-Apr-07 | 17.5 | Queenston | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-455.45 | 158 | 4-Apr-07 | 22 | Queenston | ActLabs - mineralogy/petrology | ActLabs - lithogeochemistry | ActLabs - SEM - Pore Structure |
| DGR1-456.01 | 158 | 4-Apr-07 | 12 | Queenston | ActLabs - mineralogy/petrology | ActLabs - lithogeochemistry | ActLabs - SEM - Pore Structure |
| DGR1-457.57 | 159 | 4-Apr-07 | 9.2 | Queenston | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-459.27 | 159 | 4-Apr-07 | 37 | Queenston | AECL - Permeability Testing | | |
| DGR1-459.62 | 159 | 4-Apr-07 | 19 | Queenston | U of O - Noble gases | | |
| DGR1-460.41 | 160 | 4-Apr-07 | 17.5 | Queenston | P&S Testing - Canmet | UCS - Canmet | |
| DGR1-460.77 | 160 | 4-Apr-07 | 21 | Queenston | ActLabs - mineralogy/petrology | ActLabs - lithogeochemistry | ActLabs - SEM - Pore Structure |
| DGR1-461.66 | 160 | 4-Apr-07 | 37 | Queenston | Archive | | |
| DGR1-461.91 | 160 | 4-Apr-07 | 14 | Queenston | Slake Durability | | |
| DGR1-462.49 | 160 | 4-Apr-07 | 14 | Queenston | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR1-462.64 | 160 | 4-Apr-07 | 33 | Queenston | Unibern - Noble gases | | |
| DGR2 | | | | | | | |
| DGR2-451.33 | 1 | 28-May-07 | 17 | Queenston | ActLabs - mineralogy/petrology | ActLabs - lithogeochemistry | ActLabs - SEM & EDS |
| DGR2-452.10 | 1 | 28-May-07 | 19 | Queenston | P&S Testing | | |
| DGR2-453.95 | 2 | 29-May-07 | 30 | Queenston | U of O - Pore Water | | |
| DGR2-455.32 | 2 | 29-May-07 | 18 | Queenston | Archive | | |
| DGR2-456.97 | 3 | 29-May-07 | 24 | Queenston | UNB - Archive Diffusion | | |
| DGR2-457.21 | 3 | 29-May-07 | 18 | Queenston | P&S Testing | P&S Testing - Canmet | |
| DGR2-457.66 | 3 | 29-May-07 | 16 | Queenston | Core Labs - Petrophysics | | |
| DGR2-458.46 | 3 | 29-May-07 | 12 | Queenston | P&S Testing | UWO - Swell Test | |
| DGR2-458.56 | 3 | 29-May-07 | 3 | Queenston | Point Load Testing - Axial | | |
| DGR2-458.62 | 3 | 29-May-07 | 10 | Queenston | Point Load Testing - Diametral | | |
| DGR2-461.36 | 4 | 29-May-07 | 18 | Queenston | Point Load Testing - Diametral | | |
| DGR2-461.75 | 4 | 29-May-07 | 30 | Queenston | Unibern - Porewater | | |
| DGR2-462.60 | 4 | 29-May-07 | 18.5 | Queenston | P&S Testing | | |
| DGR2-465.44 | 5 | 29-May-07 | 20 | Queenston | P&S Testing | | |
| DGR2-466.38 | 6 | 29-May-07 | 31 | Queenston | Archive | | |
| DGR2-467.17 | 6 | 29-May-07 | 24 | Queenston | Slake Durability | | |
| DGR2-468.08 | 6 | 29-May-07 | 6.5 | Queenston | Point Load Testing - Diametral | | |
| DGR2-470.02 | 7 | 29-May-07 | 19 | Queenston | P&S Testing | | |
| DGR2-470.74 | 7 | 29-May-07 | 37 | Queenston | Archive | | |
| DGR2-473.00 | 8 | 29-May-07 | 35 | Queenston | Unibern - Porewater | | |
| DGR2-473.26 | 8 | 29-May-07 | 12 | Queenston | Unibern - Noble gases | | |
| DGR2-473.41 | 8 | 29-May-07 | 10 | Queenston | P&S Testing | UWO - Swell Test | |
| DGR2-473.76 | 8 | 29-May-07 | 17.5 | Queenston | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-474.71 | 8 | 29-May-07 | 20.5 | Queenston | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-475.00 | 8 | 29-May-07 | 33 | Queenston | Archive | | |
| DGR2-476.11 | 9 | 29-May-07 | 29 | Queenston | Archive | | |
| DGR2-477.69 | 9 | 29-May-07 | 18.5 | Queenston | P&S Testing | | |
| DGR2-479.28 | 10 | 29-May-07 | 14 | Queenston | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-479.53 | 10 | 29-May-07 | 34 | Queenston | Archive | | |
| DGR2-479.81 | 10 | 29-May-07 | 19 | Queenston | P&S Testing | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis - 2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------|-----------------------------------|--------------------------------|---------------------|
| DGR2-482.45 | 11 | 29-May-07 | 19 | Queenston | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-482.69 | 11 | 29-May-07 | 28.5 | Queenston | Archive | Uni Bern | |
| DGR2-482.94 | 11 | 29-May-07 | 21 | Queenston | Slake Durability | | |
| DGR2-483.49 | 11 | 29-May-07 | 11 | Queenston | Point Load Testing - Diametral | | |
| DGR2-483.78 | 11 | 29-May-07 | 3.5 | Queenston | Point Load Testing - Axial | | |
| DGR2-484.69 | 12 | 29-May-07 | 3.5 | Queenston | Point Load Testing - Axial | | |
| DGR2-484.76 | 12 | 29-May-07 | 12 | Queenston | Point Load Testing - Diametral | | |
| DGR2-485.14 | 12 | 29-May-07 | 18 | Queenston | P&S Testing | | |
| DGR2-485.40 | 12 | 29-May-07 | 19 | Queenston | U of O - Pore Water | | |
| DGR2-485.69 | 12 | 29-May-07 | 19 | Queenston | P&S Testing | | |
| DGR2-486.01 | 12 | 29-May-07 | 37 | Queenston | Archive | | |
| DGR2-486.36 | 12 | 29-May-07 | 35 | Queenston | Archive | | |
| DGR2-488.51 | 13 | 29-May-07 | 15 | Queenston | Core Labs - Petrophysics | | |
| DGR2-488.70 | 13 | 29-May-07 | 17 | Queenston | Archive | | |
| DGR2-489.29 | 13 | 29-May-07 | 19 | Queenston | P&S Testing | UWO - Swell Test | |
| DGR2-490.54 | 14 | 30-May-07 | 27 | Queenston | Unibern - Porewater | | |
| DGR2-491.12 | 14 | 30-May-07 | 14.5 | Queenston | Point Load Testing - Diametral | | |
| DGR2-491.21 | 14 | 30-May-07 | 4 | Queenston | Point Load Testing - Axial | | |
| DGR2-491.32 | 14 | 30-May-07 | 18 | Queenston | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-491.83 | 14 | 30-May-07 | 31 | Queenston | Unibern - Porewater | | |
| DGR2-492.17 | 14 | 30-May-07 | 36 | Queenston | UNB - Diffusion - Radiography x 1 | UNB - Through Diffusion (PSI) | |
| DGR2-492.44 | 14 | 30-May-07 | 17 | Queenston | Unibern - Noble gases | | |
| DGR2-492.84 | 14 | 30-May-07 | 17.5 | Queenston | P&S Testing | | |
| DGR2-493.10 | 14 | 30-May-07 | 20 | Queenston | AECL - Microbiological | | |
| DGR2-497.33 | 16 | 30-May-07 | 12 | Queenston | Point Load Testing - Diametral | | |
| DGR2-497.61 | 16 | 30-May-07 | 23 | Queenston | Archive | | |
| DGR2-498.72 | 16 | 30-May-07 | 6.5 | Queenston | Point Load Testing - Axial | | |
| DGR2-499.84 | 17 | 30-May-07 | 14.5 | Queenston | P&S Testing | | |
| DGR2-500.37 | 17 | 30-May-07 | 25.5 | Queenston | Archive | | |
| DGR2-502.78 | 18 | 30-May-07 | 19 | Queenston | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-503.45 | 18 | 30-May-07 | 9 | Queenston | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-503.87 | 18 | 30-May-07 | 20.5 | Queenston | Slake Durability | | |
| DGR2-504.35 | 18 | 30-May-07 | 22 | Queenston | Archive | | |
| DGR2-505.15 | 18 | 30-May-07 | 10 | Queenston | P&S Testing | UWO - Swell Test | |
| DGR2-508.05 | 19 | 30-May-07 | 19 | Queenston | P&S Testing | | |
| DGR2-508.26 | 19 | 30-May-07 | 14.5 | Queenston | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-508.93 | 20 | 30-May-07 | 18 | Queenston | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-510.12 | 20 | 30-May-07 | 26 | Queenston | Archive | Uni Bern | |
| DGR2-511.53 | 20 | 30-May-07 | 10 | Queenston | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-511.92 | 21 | 30-May-07 | 19.5 | Queenston | P&S Testing | | |
| DGR2-512.38 | 21 | 30-May-07 | 22.5 | Queenston | Archive | | |
| DGR2-513.35 | 21 | 30-May-07 | 27 | Queenston | U of O - Pore Water | | |
| DGR2-514.90 | 22 | 30-May-07 | 4 | Queenston | Point Load Testing - Axial | | |
| DGR2-515.01 | 22 | 30-May-07 | 17 | Queenston | Core Labs - Petrophysics | | |
| DGR2-515.68 | 22 | 30-May-07 | 23 | Queenston | Archive | | |
| DGR2-515.94 | 22 | 30-May-07 | 28 | Queenston | Archive | | |
| DGR2-517.33 | 22 | 30-May-07 | 13 | Queenston | P&S Testing | UWO - Swell Test | |
| DGR2-517.67 | 22 | 30-May-07 | 13 | Queenston | Point Load Testing - Diametral | | |
| DGR2-517.96 | 23 | 30-May-07 | 22 | Georgian Bay | UNB - Diffusion - Radiography x 1 | UNB - Through Diffusion (PSI) | |
| DGR2-518.78 | 23 | 30-May-07 | 13 | Georgian Bay | P&S Testing | | |
| DGR2-518.97 | 23 | 30-May-07 | 23 | Georgian Bay | Archive | | |
| DGR2-519.25 | 23 | 30-May-07 | 34 | Georgian Bay | Unibern - Porewater | | |
| DGR2-519.61 | 23 | 30-May-07 | 18 | Georgian Bay | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-519.93 | 23 | 30-May-07 | 21 | Georgian Bay | Slake Durability | | |
| DGR2-520.15 | 23 | 30-May-07 | 4 | Georgian Bay | Point Load Testing - Axial | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------|--------------------------------|--------------------------------|---------------------|
| DGR2-520.30 | 23 | 30-May-07 | 15 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-521.41 | 24 | 30-May-07 | 24 | Georgian Bay | Archive | | |
| DGR2-521.57 | 24 | 30-May-07 | 5 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-522.50 | 24 | 30-May-07 | 11.5 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-522.99 | 24 | 30-May-07 | 21 | Georgian Bay | Archive | | |
| DGR2-523.26 | 24 | 30-May-07 | 35 | Georgian Bay | Unibern - Porewater | | |
| DGR2-523.51 | 24 | 30-May-07 | 12 | Georgian Bay | Unibern - Noble gases | | |
| DGR2-523.67 | 24 | 30-May-07 | 12.5 | Georgian Bay | P&S Testing | | |
| DGR2-525.41 | 25 | 31-May-07 | 11.5 | Georgian Bay | P&S Testing | UWO - Swell Test | |
| DGR2-525.92 | 24 | 21-Jun-07 | 6 | Georgian Bay | Canmet - Brazilian | | |
| DGR2-526.27 | 25 | 31-May-07 | 18.5 | Georgian Bay | Archive | | |
| DGR2-526.44 | 25 | 31-May-07 | 10 | Georgian Bay | P&S Testing | | |
| DGR2-528.15 | 26 | 31-May-07 | 22 | Georgian Bay | Slake Durability | | |
| DGR2-528.98 | 26 | 31-May-07 | 25 | Georgian Bay | Archive | | |
| DGR2-529.30 | 26 | 31-May-07 | 2.5 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-529.64 | 26 | 31-May-07 | 12 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-530.16 | 27 | 31-May-07 | 4 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-530.73 | 27 | 31-May-07 | 22 | Georgian Bay | Archive | | |
| DGR2-531.64 | 27 | 31-May-07 | 8 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-531.95 | 27 | 31-May-07 | 10.5 | Georgian Bay | P&S Testing | | |
| DGR2-533.94 | 28 | 31-May-07 | 19.5 | Georgian Bay | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-534.22 | 28 | 21-Jun-07 | 5.5 | Georgian Bay | Canmet - Brazilian | | |
| DGR2-534.93 | 28 | 31-May-07 | 14 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-535.08 | 28 | 31-May-07 | 15 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-535.56 | 28 | 31-May-07 | 18 | Georgian Bay | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-535.70 | 28 | 31-May-07 | 8.5 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-537.32 | 29 | 31-May-07 | 8 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-537.47 | 29 | 31-May-07 | 20 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-538.51 | 29 | 31-May-07 | 28.5 | Georgian Bay | U of O - Pore Water | | |
| DGR2-539.55 | 30 | 31-May-07 | 17 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-539.69 | 30 | 31-May-07 | 12 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-540.00 | 30 | 31-May-07 | 12 | Georgian Bay | Core Labs - Petrophysics | | |
| DGR2-540.37 | 30 | 31-May-07 | 33 | Georgian Bay | Archive | | |
| DGR2-540.81 | 30 | 31-May-07 | 8 | Georgian Bay | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-540.95 | 30 | 31-May-07 | 20 | Georgian Bay | Slake Durability | | |
| DGR2-541.30 | 30 | 31-May-07 | 15 | Georgian Bay | P&S Testing | | |
| DGR2-541.63 | 30 | 31-May-07 | 11 | Georgian Bay | P&S Testing | UWO - Swell Test | |
| DGR2-543.20 | 31 | 31-May-07 | 20 | Georgian Bay | Archive | | |
| DGR2-543.45 | 31 | 31-May-07 | 30 | Georgian Bay | Unibern - Porewater | | |
| DGR2-544.05 | 31 | 31-May-07 | 17 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-544.25 | 31 | 31-May-07 | 23 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-544.83 | 31 | 31-May-07 | 30 | Georgian Bay | Archive | | |
| DGR2-546.21 | 32 | 31-May-07 | 11.5 | Georgian Bay | P&S Testing | UWO - Swell Test | |
| DGR2-546.61 | 32 | 31-May-07 | 12 | Georgian Bay | P&S Testing | | |
| DGR2-547.53 | 32 | 31-May-07 | 25 | Georgian Bay | Archive | | |
| DGR2-548.03 | 32 | 31-May-07 | 9.5 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-548.21 | 32 | 31-May-07 | 5 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-548.49 | 33 | 31-May-07 | 9 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-549.18 | 33 | 31-May-07 | 5 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-549.43 | 33 | 31-May-07 | 12 | Georgian Bay | P&S Testing | | |
| DGR2-549.63 | 33 | 31-May-07 | 26 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-549.90 | 33 | 31-May-07 | 30 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-550.28 | 33 | 31-May-07 | 14 | Georgian Bay | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-550.95 | 33 | 31-May-07 | 30 | Georgian Bay | Archive | | |
| DGR2-551.75 | 34 | 1-Jun-07 | 30 | Georgian Bay | U of O - Pore Water | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------|-----------------------------------|--------------------------------|---------------------|
| DGR2-552.38 | 34 | 1-Jun-07 | 30 | Georgian Bay | Archive | Uni Bern | |
| DGR2-552.82 | 34 | 1-Jun-07 | 30 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-553.04 | 34 | 1-Jun-07 | 12.5 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-553.70 | 34 | 1-Jun-07 | 21 | Georgian Bay | Slake Durability | | |
| DGR2-554.09 | 34 | 21-Jun-07 | 5.5 | Georgian Bay | Canmet - Brazilian | | |
| DGR2-554.55 | 35 | 1-Jun-07 | 20 | Georgian Bay | UNB - Diffusion - Radiography x 2 | | |
| DGR2-554.80 | 35 | 1-Jun-07 | 29 | Georgian Bay | Archive | | |
| DGR2-555.12 | 35 | 1-Jun-07 | 11 | Georgian Bay | | UWO - Swell Test | |
| DGR2-555.20 | 35 | 1-Jun-07 | 3 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-555.81 | 35 | 1-Jun-07 | 10 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-556.33 | 35 | 1-Jun-07 | 16 | Georgian Bay | Core Labs - Petrophysics | | |
| DGR2-557.60 | 36 | 1-Jun-07 | 20 | Georgian Bay | Archive | | |
| DGR2-557.93 | 36 | 1-Jun-07 | 32 | Georgian Bay | Archive | | |
| DGR2-558.15 | 36 | 22-Jun-07 | 6.5 | Georgian Bay | Canmet - Brazilian | | |
| DGR2-558.42 | 36 | 1-Jun-07 | 4.5 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-558.50 | 36 | 1-Jun-07 | 15 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-560.10 | 36 | 1-Jun-07 | 30 | Georgian Bay | Unibern - Porewater | | |
| DGR2-560.38 | 36 | 1-Jun-07 | 13 | Georgian Bay | P&S Testing | | |
| DGR2-561.12 | 37 | 1-Jun-07 | 15 | Georgian Bay | P&S Testing | | |
| DGR2-561.66 | 37 | 1-Jun-07 | 27 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-561.90 | 37 | 1-Jun-07 | 21 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-562.35 | 37 | 1-Jun-07 | 9 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-562.40 | 37 | 1-Jun-07 | 11 | Georgian Bay | Unibern - Noble gases | | |
| DGR2-562.92 | 37 | 1-Jun-07 | 32 | Georgian Bay | Archive | Uni Bern | |
| DGR2-565.66 | 38 | 1-Jun-07 | 7 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-566.99 | 39 | 1-Jun-07 | 32 | Georgian Bay | Archive | | |
| DGR2-567.19 | 39 | 1-Jun-07 | 19.5 | Georgian Bay | Unibern - Forced Advection | | |
| DGR2-567.65 | 39 | 1-Jun-07 | 33 | Georgian Bay | UWO - Swell Test | | |
| DGR2-568.03 | 39 | 1-Jun-07 | 14 | Georgian Bay | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-568.47 | 39 | 1-Jun-07 | 16 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-568.70 | 39 | 1-Jun-07 | 30 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-568.95 | 39 | 1-Jun-07 | 30 | Georgian Bay | Archive | | |
| DGR2-570.39 | 41 | 1-Jun-07 | 20 | Georgian Bay | Slake Durability | | |
| DGR2-570.73 | 40 | 1-Jun-07 | 15 | Georgian Bay | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-571.89 | 40 | 1-Jun-07 | 34 | Georgian Bay | Archive | | |
| DGR2-573.35 | 41 | 22-Jun-07 | 6.5 | Georgian Bay | Canmet - Brazilian | | |
| DGR2-575.16 | 41 | 1-Jun-07 | 27 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-575.36 | 41 | 1-Jun-07 | 13 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-575.67 | 41 | 1-Jun-07 | 3 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-576.09 | 42 | 1-Jun-07 | 13 | Georgian Bay | Core Labs - Petrophysics | | |
| DGR2-576.31 | 42 | 1-Jun-07 | 6 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-576.58 | 42 | 1-Jun-07 | 30 | Georgian Bay | Archive | | |
| DGR2-577.03 | 42 | 1-Jun-07 | 15.5 | Georgian Bay | P&S Testing | | |
| DGR2-577.52 | 42 | 1-Jun-07 | 29 | Georgian Bay | Archive | | |
| DGR2-577.90 | 42 | 1-Jun-07 | 39 | Georgian Bay | Archive | | |
| DGR2-578.15 | 42 | 1-Jun-07 | 30 | Georgian Bay | U of O - Pore Water | | |
| DGR2-578.56 | 42 | 1-Jun-07 | 30 | Georgian Bay | UNB - Archive Diffusion | | |
| DGR2-579.16 | 43 | 1-Jun-07 | 33.5 | Georgian Bay | Archive | | |
| DGR2-579.35 | 43 | 1-Jun-07 | 8 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-579.55 | 43 | 1-Jun-07 | 12.5 | Georgian Bay | P&S Testing | | |
| DGR2-580.72 | 43 | 1-Jun-07 | 30 | Georgian Bay | Unibern - Porewater | | |
| DGR2-580.99 | 43 | 1-Jun-07 | 17 | Georgian Bay | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-581.32 | 43 | 1-Jun-07 | 21 | Georgian Bay | Archive | Uni Bern | |
| DGR2-581.45 | 43 | 1-Jun-07 | 5 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-582.93 | 44 | 1-Jun-07 | 30 | Georgian Bay | UNB - Porewater (NWMO) | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------|-----------------------------------|--------------------------------|---------------------|
| DGR2-583.18 | 44 | 1-Jun-07 | 20 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-583.85 | 44 | 1-Jun-07 | 27 | Georgian Bay | Archive | | |
| DGR2-584.80 | 44 | 1-Jun-07 | 11 | Georgian Bay | P&S Testing | | |
| DGR2-585.82 | 45 | 2-Jun-07 | 30 | Georgian Bay | Archive | | |
| DGR2-586.35 | 45 | 2-Jun-07 | 45 | Georgian Bay | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-587.51 | 45 | 2-Jun-07 | 26 | Georgian Bay | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-587.81 | 45 | 2-Jun-07 | 12 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-587.90 | 45 | 2-Jun-07 | 6 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-588.66 | 46 | 2-Jun-07 | 30 | Georgian Bay | Archive | | |
| DGR2-589.28 | 46 | 2-Jun-07 | 14 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-589.47 | 46 | 2-Jun-07 | 19 | Georgian Bay | P&S Testing | | |
| DGR2-590.10 | 46 | 2-Jun-07 | 22 | Georgian Bay | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-590.99 | 46 | 2-Jun-07 | 5 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-591.33 | 47 | 2-Jun-07 | 27 | Georgian Bay | U of O - Pore Water | | |
| DGR2-591.59 | 47 | 2-Jun-07 | 26 | Georgian Bay | Archive | | |
| DGR2-591.82 | 47 | 2-Jun-07 | 9 | Georgian Bay | Point Load Testing - Diametral | | |
| DGR2-592.49 | 47 | 2-Jun-07 | 4 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-592.80 | 47 | 2-Jun-07 | 20 | Georgian Bay | Slake Durability | | |
| DGR2-593.25 | 47 | 2-Jun-07 | 31.5 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-593.53 | 47 | 2-Jun-07 | 26 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-594.47 | 48 | 2-Jun-07 | 32 | Georgian Bay | UWO - Swell Test | | |
| DGR2-595.05 | 48 | 2-Jun-07 | 33 | Georgian Bay | Archive | | |
| DGR2-596.09 | 48 | 2-Jun-07 | 12 | Georgian Bay | Core Labs - Petrophysics | | |
| DGR2-596.64 | 48 | 2-Jun-07 | 27 | Georgian Bay | UNB - Diffusion - Radiography x 1 | UNB - Through Diffusion (PSI) | |
| DGR2-596.90 | 48 | 2-Jun-07 | 15.5 | Georgian Bay | P&S Testing | | |
| DGR2-597.25 | 49 | 2-Jun-07 | 20 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-597.46 | 49 | 2-Jun-07 | 22 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-597.77 | 49 | 2-Jun-07 | 7.6 | Georgian Bay | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR2-598.98 | 49 | 2-Jun-07 | 32 | Georgian Bay | Unibern - Porewater | | |
| DGR2-599.28 | 49 | 2-Jun-07 | 26 | Georgian Bay | Archive | | |
| DGR2-599.58 | 49 | 2-Jun-07 | 36 | Georgian Bay | Archive | | |
| DGR2-599.89 | 49 | 2-Jun-07 | 11.8 | Georgian Bay | P&S Testing | | |
| DGR2-602.30 | 50 | 2-Jun-07 | 36 | Georgian Bay | Archive | | |
| DGR2-603.87 | 51 | 2-Jun-07 | 10 | Georgian Bay | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-604.29 | 51 | 2-Jun-07 | 12.5 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-604.76 | 51 | 2-Jun-07 | 29 | Georgian Bay | Archive | | |
| DGR2-604.94 | 51 | 2-Jun-07 | 20 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-605.93 | 51 | 2-Jun-07 | 11 | Georgian Bay | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-606.50 | 52 | 2-Jun-07 | 18 | Georgian Bay | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-606.62 | 52 | 2-Jun-07 | 5 | Georgian Bay | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-606.96 | 52 | 2-Jun-07 | 24 | Georgian Bay | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-607.43 | 52 | 2-Jun-07 | 4 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-607.65 | 52 | 2-Jun-07 | 29 | Georgian Bay | Archive | | |
| DGR2-608.08 | 52 | 2-Jun-07 | 14 | Georgian Bay | UNB - Diffusion (NWMO) | | |
| DGR2-608.28 | 52 | 2-Jun-07 | 26 | Georgian Bay | UNB - Porewater (NWMO) | | |
| DGR2-608.85 | 52 | 2-Jun-07 | 4 | Georgian Bay | Point Load Testing - Axial | | |
| DGR2-609.49 | 53 | 2-Jun-07 | 26 | Georgian Bay | Unibern - Porewater | | |
| DGR2-609.64 | 53 | 2-Jun-07 | 12 | Georgian Bay | Unibern - Noble gases | | |
| DGR2-610.31 | 53 | 2-Jun-07 | 37 | Georgian Bay | Archive | | |
| DGR2-611.27 | 53 | 2-Jun-07 | 13 | Georgian Bay | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-612.09 | 53 | 2-Jun-07 | 22 | Georgian Bay | U of O - Pore Water | | |
| DGR2-613.37 | 55 | 22-Jun-07 | 10.7 | Georgian Bay | Canmet - Direct Shear | | |
| DGR2-613.41 | 54 | 2-Jun-07 | 31 | Georgian Bay | Archive | | |
| DGR2-613.93 | 54 | 2-Jun-07 | 13.5 | Georgian Bay | Core Labs - Petrophysics | | |
| DGR2-614.47 | 54 | 2-Jun-07 | 30 | Georgian Bay | UNB - Archive Diffusion | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis - 2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|---------------|-----------------------------------|-------------------------------|---------------------|
| DGR2-615.85 | 55 | 2-Jun-07 | 31 | Blue Mountain | Archive | | |
| DGR2-616.17 | 55 | 2-Jun-07 | 30 | Blue Mountain | Unibern - Porewater | | |
| DGR2-616.59 | 55 | 22-Jun-07 | 14.3 | Blue Mountain | Canmet - Direct Shear | | |
| DGR2-616.70 | 55 | 2-Jun-07 | 23 | Blue Mountain | Archive | | |
| DGR2-617.59 | 55 | 2-Jun-07 | 22 | Blue Mountain | Slake Durability | | |
| DGR2-618.03 | 55 | 2-Jun-07 | 9.5 | Blue Mountain | Point Load Testing - Diametral | | |
| DGR2-618.43 | 55 | 2-Jun-07 | 6 | Blue Mountain | Point Load Testing - Axial | | |
| DGR2-619.20 | 56 | 2-Jun-07 | 10.5 | Blue Mountain | P&S Testing | | |
| DGR2-619.40 | 56 | 2-Jun-07 | 30 | Blue Mountain | Archive | | |
| DGR2-620.52 | 56 | 2-Jun-07 | 28 | Blue Mountain | UNB - Porewater (NWMO) | | |
| DGR2-620.95 | 56 | 2-Jun-07 | 20 | Blue Mountain | UNB - Diffusion (NWMO) | | |
| DGR2-621.88 | 57 | 2-Jun-07 | 30 | Blue Mountain | Archive | | |
| DGR2-623.97 | 57 | 2-Jun-07 | 5 | Blue Mountain | Point Load Testing - Axial | | |
| DGR2-624.05 | 57 | 2-Jun-07 | 11 | Blue Mountain | Point Load Testing - Diametral | | |
| DGR2-624.81 | 58 | 22-Jun-07 | 7.1 | Blue Mountain | Canmet - Brazilian | | |
| DGR2-625.24 | 58 | 3-Jun-07 | 12 | Blue Mountain | P&S Testing | | |
| DGR2-625.45 | 58 | 3-Jun-07 | 30 | Blue Mountain | Archive | | |
| DGR2-626.29 | 58 | 3-Jun-07 | 12 | Blue Mountain | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-627.12 | 58 | 22-Jun-07 | 5 | Blue Mountain | Canmet - Brazilian | | |
| DGR2-628.18 | 59 | 3-Jun-07 | 23 | Blue Mountain | U of O - Pore Water | | |
| DGR2-629.13 | 59 | 3-Jun-07 | 30 | Blue Mountain | Archive | | |
| DGR2-630.53 | 59 | 3-Jun-07 | 8 | Blue Mountain | Point Load Testing - Diametral | | |
| DGR2-630.59 | 59 | 3-Jun-07 | 5 | Blue Mountain | Point Load Testing - Axial | | |
| DGR2-631.22 | 60 | 3-Jun-07 | 26 | Blue Mountain | UNB - Diffusion - Radiography x 1 | UNB - Through Diffusion (PSI) | |
| DGR2-631.86 | 60 | 3-Jun-07 | 28 | Blue Mountain | Archive | | |
| DGR2-632.56 | 60 | 3-Jun-07 | 30 | Blue Mountain | UWO - Swell Test | | |
| DGR2-633.24 | 60 | 3-Jun-07 | 5 | Blue Mountain | Point Load Testing - Axial | | |
| DGR2-633.30 | 60 | 3-Jun-07 | 9 | Blue Mountain | Point Load Testing - Diametral | | |
| DGR2-633.41 | 60 | 3-Jun-07 | 13 | Blue Mountain | Core Labs - Petrophysics | | |
| DGR2-633.94 | 61 | 3-Jun-07 | 30 | Blue Mountain | Unibern - Porewater | | |
| DGR2-634.49 | 61 | 3-Jun-07 | 29 | Blue Mountain | Archive | | |
| DGR2-635.18 | 61 | 3-Jun-07 | 18 | Blue Mountain | Slake Durability | | |
| DGR2-635.64 | 61 | 3-Jun-07 | 18 | Blue Mountain | Archive | | |
| DGR2-637.79 | 62 | 3-Jun-07 | 28 | Blue Mountain | Archive | | |
| DGR2-639.41 | 62 | 3-Jun-07 | 14 | Blue Mountain | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR2-639.50 | 62 | 3-Jun-07 | 3.5 | Blue Mountain | Point Load Testing - Axial | | |
| DGR2-640.41 | 66 | 22-Jun-07 | 6 | Blue Mountain | Canmet - Brazilian | | |
| DGR2-641.92 | 63 | 3-Jun-07 | 32 | Blue Mountain | Archive | | |
| DGR2-643.35 | 64 | 22-Jun-07 | 5.2 | Blue Mountain | Canmet - Brazilian | | |
| DGR2-644.49 | 64 | 3-Jun-07 | 19 | Blue Mountain | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-644.85 | 64 | 3-Jun-07 | 4 | Blue Mountain | Point Load Testing - Axial | | |
| DGR2-645.22 | 64 | 3-Jun-07 | 34 | Blue Mountain | UWO - Swell Test | | |
| DGR2-645.60 | 64 | 22-Jun-07 | 6 | Blue Mountain | Canmet - Brazilian | | |
| DGR2-646.42 | 65 | 3-Jun-07 | 33 | Blue Mountain | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-646.72 | 65 | 22-Jun-07 | 16.3 | Blue Mountain | Canmet - Direct Shear | | |
| DGR2-647.59 | 65 | 3-Jun-07 | 20 | Blue Mountain | Slake Durability | | |
| DGR2-647.85 | 65 | 3-Jun-07 | 33 | Blue Mountain | Archive | | |
| DGR2-648.75 | 65 | 3-Jun-07 | 30 | Blue Mountain | U of O - Pore Water | | |
| DGR2-649.29 | 66 | 3-Jun-07 | 27 | Blue Mountain | UNB - Archive Diffusion | | |
| DGR2-649.58 | 66 | 3-Jun-07 | 35 | Blue Mountain | Archive | | |
| DGR2-649.90 | 66 | 3-Jun-07 | 27 | Blue Mountain | UWO - Swell Test | | |
| DGR2-650.12 | 66 | 3-Jun-07 | 14 | Blue Mountain | Core Labs - Petrophysics | | |
| DGR2-650.38 | 66 | 3-Jun-07 | 4 | Blue Mountain | Point Load Testing - Axial | | |
| DGR2-650.74 | 66 | 22-Jun-07 | 7.5 | Blue Mountain | UWO - Semi-confined swell test | | |
| DGR2-651.34 | 67 | 3-Jun-07 | 34 | Blue Mountain | Archive | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis - 2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|-----------------------|-----------------------------------|--------------------------------|---------------------|
| DGR2-651.55 | 67 | 3-Jun-07 | 4 | Blue Mountain | Point Load Testing - Axial | | |
| DGR2-652.52 | 67 | 3-Jun-07 | 10 | Cobourg - Collingwood | Point Load Testing - Diametral | | |
| DGR2-652.71 | 67 | 3-Jun-07 | 27 | Cobourg - Collingwood | Unibern - Porewater | | |
| DGR2-654.97 | 68 | 3-Jun-07 | 18 | Cobourg - Collingwood | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-655.32 | 69 | 11-Jun-07 | 19 | Cobourg - Collingwood | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-656.41 | 69 | 11-Jun-07 | 30.5 | Cobourg - Collingwood | Archive | | |
| DGR2-656.65 | 69 | 11-Jun-07 | 16 | Cobourg - Collingwood | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-657.86 | 69 | 11-Jun-07 | 12 | Cobourg - Collingwood | LU - Abrasive Index | | |
| DGR2-658.78 | 70 | 24-Jun-07 | 5.5 | Cobourg - Collingwood | Canmet - Brazilian | | |
| DGR2-658.88 | 70 | 11-Jun-07 | 15 | Cobourg - Collingwood | Core Labs - Petrophysics | | |
| DGR2-659.31 | 70 | 11-Jun-07 | 17 | Cobourg - Collingwood | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-660.14 | 70 | 11-Jun-07 | 30 | Cobourg | Archive | | |
| DGR2-660.54 | 70 | 11-Jun-07 | 10 | Cobourg | LU - Abrasive Index | | |
| DGR2-660.68 | 70 | 11-Jun-07 | 18 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-660.93 | 70 | 11-Jun-07 | 29 | Cobourg | UNB - Diffusion - Radiography x 2 | | |
| DGR2-661.61 | 71 | 11-Jun-07 | 19 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-662.09 | 71 | 11-Jun-07 | 33 | Cobourg | Archive | Uni Bern | |
| DGR2-663.19 | 71 | 11-Jun-07 | 31 | Cobourg | Unibern - Porewater | | |
| DGR2-663.34 | 71 | 11-Jun-07 | 23 | Cobourg | U of O - Pore Water | | |
| DGR2-663.46 | 71 | 11-Jun-07 | 26 | Cobourg | Archive | Uni Bern | |
| DGR2-663.64 | 71 | 11-Jun-07 | 11 | Cobourg | LU - Abrasive Index | | |
| DGR2-664.45 | 72 | 11-Jun-07 | 38 | Cobourg | UWO - Swell Test | | |
| DGR2-664.94 | 72 | 11-Jun-07 | 32 | Cobourg | Archive | Canmet | |
| DGR2-665.12 | 72 | 11-Jun-07 | 3.5 | Cobourg | Point Load Testing - Axial | | |
| DGR2-665.46 | 72 | 11-Jun-07 | 9 | Cobourg | Point Load Testing - Diametral | | |
| DGR2-666.79 | 72 | 11-Jun-07 | 19 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-667.03 | 72 | 11-Jun-07 | 15 | Cobourg | LU - Abrasive Index | | |
| DGR2-668.19 | 73 | 11-Jun-07 | 34 | Cobourg | UNB - Archive Diffusion | | |
| DGR2-668.46 | 73 | 11-Jun-07 | 19 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-669.10 | 73 | 11-Jun-07 | 15 | Cobourg | Core Labs - Petrophysics | | |
| DGR2-669.27 | 73 | 11-Jun-07 | 18 | Cobourg | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-669.81 | 73 | 11-Jun-07 | 30 | Cobourg | Archive | | |
| DGR2-670.01 | 73 | 11-Jun-07 | 13 | Cobourg | Archive | | |
| DGR2-670.15 | 73 | 24-Jun-07 | 5.5 | Cobourg | Canmet - Brazilian | | |
| DGR2-670.48 | 74 | 11-Jun-07 | 25 | Cobourg | U of O - Pore Water | | |
| DGR2-671.05 | 74 | 11-Jun-07 | 29 | Cobourg | Archive | | |
| DGR2-671.64 | 74 | 11-Jun-07 | 27 | Cobourg | Unibern - Porewater | | |
| DGR2-672.07 | 74 | 11-Jun-07 | 14 | Cobourg | Point Load Testing - Diametral | | |
| DGR2-672.15 | 74 | 11-Jun-07 | 2 | Cobourg | Point Load Testing - Axial | | |
| DGR2-672.24 | 74 | 11-Jun-07 | 14 | Cobourg | LU - Abrasive Index | | |
| DGR2-673.06 | 74 | 11-Jun-07 | 20 | Cobourg | Archive | Canmet | |
| DGR2-673.26 | 74 | 11-Jun-07 | 18 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-674.11 | 75 | 11-Jun-07 | 18 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-674.48 | 75 | 11-Jun-07 | 26 | Cobourg | Unibern - Forced Advection | | |
| DGR2-674.98 | 75 | 11-Jun-07 | 31 | Cobourg | Unibern - Porewater | | |
| DGR2-675.24 | 75 | 11-Jun-07 | 14 | Cobourg | Unibern - Noble gases | | |
| DGR2-675.48 | 75 | 11-Jun-07 | 12 | Cobourg | Archive | | |
| DGR2-675.88 | 75 | 11-Jun-07 | 32 | Cobourg | Archive | | |
| DGR2-676.45 | 76 | 11-Jun-07 | 18 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-676.89 | 76 | 11-Jun-07 | 10 | Cobourg | Point Load Testing - Diametral | | |
| DGR2-677.11 | 76 | 11-Jun-07 | 31 | Cobourg | UNB - Diffusion - Radiography x 2 | UNB - Through Diffusion (PSI) | |
| DGR2-677.32 | 76 | 11-Jun-07 | 12 | Cobourg | LU - Abrasive Index | | |
| DGR2-677.37 | 76 | 24-Jun-07 | 7 | Cobourg | Canmet - Brazilian | | |
| DGR2-677.93 | 76 | 11-Jun-07 | 24 | Cobourg | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-678.55 | 76 | 11-Jun-07 | 2.5 | Cobourg | Point Load Testing - Axial | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis - 2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------|-----------------------------------|------------------------------|---------------------|
| DGR2-678.63 | 76 | 11-Jun-07 | 14 | Cobourg | Core Labs - Petrophysics | | |
| DGR2-679.08 | 76 | 11-Jun-07 | 34 | Cobourg | Archive | | |
| DGR2-679.83 | 77 | 11-Jun-07 | 18 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-680.29 | 77 | 11-Jun-07 | 33 | Cobourg | Unibern - Porewater | | |
| DGR2-681.18 | 77 | 11-Jun-07 | 10 | Cobourg | LU - Abrasive Index | | |
| DGR2-681.45 | 77 | 11-Jun-07 | 23 | Cobourg | U of O - Pore Water | | |
| DGR2-681.98 | 77 | 11-Jun-07 | 22 | Cobourg | Archive | | |
| DGR2-683.02 | 78 | 11-Jun-07 | 18.7 | Cobourg | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-683.49 | 78 | 11-Jun-07 | 2 | Cobourg | Point Load Testing - Axial | | |
| DGR2-684.00 | 78 | 11-Jun-07 | 29 | Cobourg | Archive | Canmet | |
| DGR2-684.37 | 78 | 11-Jun-07 | 17 | Cobourg | LU - Abrasive Index | | |
| DGR2-684.88 | 78 | 11-Jun-07 | 34 | Cobourg | UWO - Swell Test | | |
| DGR2-685.10 | 78 | 11-Jun-07 | 9 | Cobourg | Point Load Testing - Diametral | | |
| DGR2-686.20 | 79 | 11-Jun-07 | 26 | Cobourg | Archive | | |
| DGR2-687.10 | 79 | 11-Jun-07 | 15 | Sherman Fall | Core Labs - Petrophysics | | |
| DGR2-687.47 | 79 | 11-Jun-07 | 20 | Sherman Fall | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-687.64 | 79 | 11-Jun-07 | 12 | Sherman Fall | AECL - Microbiological | | |
| DGR2-687.91 | 79 | 11-Jun-07 | 41 | Sherman Fall | UNB - Diffusion - Radiography x 2 | | |
| DGR2-688.22 | 79 | 11-Jun-07 | 19 | Sherman Fall | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-688.58 | 79 | 24-Jun-07 | 6 | Sherman Fall | Canmet - Brazilian | | |
| DGR2-689.45 | 80 | 11-Jun-07 | 25 | Sherman Fall | U of O - Pore Water | | |
| DGR2-689.78 | 80 | 11-Jun-07 | 9 | Sherman Fall | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR2-689.90 | 80 | 11-Jun-07 | 19 | Sherman Fall | Archive | | |
| DGR2-690.31 | 80 | 11-Jun-07 | 12 | Sherman Fall | LU - Abrasive Index | | |
| DGR2-690.69 | 80 | 11-Jun-07 | 28 | Sherman Fall | Unibern - Porewater | | |
| DGR2-690.96 | 80 | 11-Jun-07 | 22 | Sherman Fall | Archive | | |
| DGR2-691.38 | 80 | 11-Jun-07 | 30 | Sherman Fall | Archive | | |
| DGR2-692.00 | 81 | 24-Jun-07 | 18 | Sherman Fall | Canmet - Direct Shear | | |
| DGR2-692.20 | 81 | 24-Jun-07 | 5 | Sherman Fall | Canmet - Brazilian | | |
| DGR2-692.39 | 81 | 11-Jun-07 | 33 | Sherman Fall | Archive | Uni Bern | |
| DGR2-693.90 | 81 | 11-Jun-07 | 15 | Sherman Fall | Archive | | |
| DGR2-694.11 | 81 | 11-Jun-07 | 19 | Sherman Fall | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-694.63 | 81 | 11-Jun-07 | 22 | Sherman Fall | U of O - Pore Water | | |
| DGR2-695.15 | 82 | 12-Jun-07 | 18.5 | Sherman Fall | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-695.34 | 82 | 12-Jun-07 | 14 | Sherman Fall | LU - Abrasive Index | | |
| DGR2-695.51 | 82 | 12-Jun-07 | 14 | Sherman Fall | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-696.05 | 82 | 12-Jun-07 | 11 | Sherman Fall | Core Labs - Petrophysics | | |
| DGR2-696.50 | 82 | 12-Jun-07 | 10 | Sherman Fall | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR2-696.57 | 82 | 24-Jun-07 | 6 | Sherman Fall | Canmet - Brazilian | | |
| DGR2-696.75 | 82 | 12-Jun-07 | 34 | Sherman Fall | Archive | | |
| DGR2-697.86 | 83 | 24-Jun-07 | 12 | Sherman Fall | Canmet - Direct Shear | | |
| DGR2-698.84 | 83 | 24-Jun-07 | 7 | Sherman Fall | Canmet - Brazilian | | |
| DGR2-698.93 | 83 | 12-Jun-07 | 26 | Sherman Fall | Archive | | |
| DGR2-699.32 | 83 | 12-Jun-07 | 30 | Sherman Fall | Unibern - Porewater | | |
| DGR2-699.58 | 83 | 12-Jun-07 | 18.5 | Sherman Fall | U of O - Pore Water | | |
| DGR2-700.32 | 83 | 12-Jun-07 | 21 | Sherman Fall | Archive | | |
| DGR2-701.27 | 84 | 12-Jun-07 | 19 | Sherman Fall | UWO - Swell Test | | |
| DGR2-701.87 | 84 | 12-Jun-07 | 11 | Sherman Fall | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR2-702.23 | 84 | 24-Jun-07 | 17.5 | Sherman Fall | Canmet - Direct Shear | | |
| DGR2-702.47 | 84 | 12-Jun-07 | 20 | Sherman Fall | Slake Durability | | |
| DGR2-702.69 | 84 | 12-Jun-07 | 19 | Sherman Fall | P&S Testing - Canmet | UCS - Canmet | |
| DGR2-703.05 | 84 | 24-Jun-07 | 5 | Sherman Fall | Canmet - Brazilian | | |
| DGR2-703.80 | 84 | 12-Jun-07 | 30 | Sherman Fall | Archive | | |
| DGR2-703.94 | 85 | 24-Jun-07 | 8 | Sherman Fall | Canmet - Brazilian | | |
| DGR2-704.23 | 85 | 13-Jun-07 | 29 | Sherman Fall | Archive | | |

Prepared by: DMP

Revised by: SNS

DGR1 & 2 Sample Summary_R0.xls

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis - 2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|--------------|-----------------------------------|--------------------------------|---------------------|
| DGR2-704.47 | 85 | 13-Jun-07 | 18.5 | Sherman Fall | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-704.87 | 85 | 13-Jun-07 | 17 | Sherman Fall | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-705.68 | 85 | 13-Jun-07 | 23 | Sherman Fall | UNB - Diffusion - Radiography x 1 | | |
| DGR2-705.86 | 85 | 23-Jun-07 | 13 | Sherman Fall | Canmet - Direct Shear | | |
| DGR2-706.77 | 85 | 13-Jun-07 | 12 | Sherman Fall | Core Labs - Petrophysics | | |
| DGR2-706.98 | 86 | 23-Jun-07 | 6.7 | Sherman Fall | Canmet - Brazilian | | |
| DGR2-707.19 | 86 | 13-Jun-07 | 23 | Sherman Fall | Archive | | |
| DGR2-707.78 | 86 | 13-Jun-07 | 27 | Sherman Fall | Unibern - Porewater | | |
| DGR2-708.03 | 86 | 13-Jun-07 | 24 | Sherman Fall | Archive | | |
| DGR2-708.57 | 86 | 13-Jun-07 | 16 | Sherman Fall | P&S Testing | Canmet - Direct Shear | |
| DGR2-708.80 | 86 | 13-Jun-07 | 11 | Sherman Fall | Point Load Testing - Diametral | | |
| DGR2-709.28 | 86 | 13-Jun-07 | 34 | Sherman Fall | U of O - Pore Water | | |
| DGR2-709.47 | 86 | 13-Jun-07 | 4 | Sherman Fall | Point Load Testing - Axial | | |
| DGR2-710.29 | 87 | 13-Jun-07 | 19 | Sherman Fall | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-711.08 | 87 | 13-Jun-07 | 30 | Sherman Fall | Archive | | |
| DGR2-713.97 | 89 | 13-Jun-07 | 16 | Sherman Fall | P&S Testing | | |
| DGR2-714.75 | 89 | 13-Jun-07 | 30 | Sherman Fall | Archive | | |
| DGR2-714.97 | 89 | 13-Jun-07 | 12 | Sherman Fall | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-719.38 | 91 | 14-Jun-07 | 19 | Sherman Fall | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-719.98 | 91 | 14-Jun-07 | 11 | Sherman Fall | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-720.54 | 91 | 14-Jun-07 | 33 | Sherman Fall | Archive | | |
| DGR2-722.67 | 92 | 14-Jun-07 | 20 | Sherman Fall | Slake Durability | | |
| DGR2-723.59 | 92 | 14-Jun-07 | 15 | Sherman Fall | P&S Testing | | |
| DGR2-724.16 | 92 | 14-Jun-07 | 33 | Sherman Fall | Archive | | |
| DGR2-725.94 | 93 | 14-Jun-07 | 30 | Sherman Fall | Archive | | |
| DGR2-726.76 | 93 | 14-Jun-07 | 3 | Sherman Fall | Point Load Testing - Axial | | |
| DGR2-726.86 | 93 | 14-Jun-07 | 17 | Sherman Fall | Point Load Testing - Diametral | | |
| DGR2-729.41 | 94 | 14-Jun-07 | 30 | Sherman Fall | Archive | | |
| DGR2-729.98 | 94 | 14-Jun-07 | 4 | Sherman Fall | Point Load Testing - Axial | | |
| DGR2-730.08 | 94 | 14-Jun-07 | 17 | Sherman Fall | Point Load Testing - Diametral | | |
| DGR2-732.97 | 95 | 14-Jun-07 | 15 | Kirkfeild | P&S Testing | | |
| DGR2-733.48 | 95 | 14-Jun-07 | 29 | Kirkfeild | Archive | | |
| DGR2-735.45 | 96 | 14-Jun-07 | 10 | Kirkfeild | Point Load Testing - Diametral | | |
| DGR2-735.61 | 96 | 14-Jun-08 | 3 | Kirkfeild | Point Load Testing - Axial | | |
| DGR2-735.78 | 96 | 14-Jun-07 | 29 | Kirkfeild | Archive | | |
| DGR2-737.16 | 96 | 14-Jun-07 | 23 | Kirkfeild | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-737.79 | 97 | 14-Jun-07 | 13 | Kirkfeild | Unibern - Noble gases | | |
| DGR2-738.00 | 97 | 14-Jun-07 | 32 | Kirkfeild | Unibern - Porewater | | |
| DGR2-738.90 | 97 | 14-Jun-07 | 27 | Kirkfeild | Archive | | |
| DGR2-739.78 | 97 | 14-Jun-07 | 15 | Kirkfeild | P&S Testing | | |
| DGR2-742.61 | 98 | 14-Jun-07 | 30 | Kirkfeild | Archive | | |
| DGR2-743.05 | 98 | 14-Jun-07 | 12 | Kirkfeild | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-743.87 | 99 | 14-Jun-07 | 25 | Kirkfeild | Archive | | |
| DGR2-744.86 | 99 | 15-Jun-07 | 15 | Kirkfeild | Core Labs - Petrophysics | | |
| DGR2-745.08 | 99 | 15-Jun-07 | 24 | Kirkfeild | Slake Durability | | |
| DGR2-745.97 | 99 | 14-Jun-07 | 17 | Kirkfeild | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-746.14 | 99 | 15-Jun-07 | 15 | Kirkfeild | Archive | | |
| DGR2-746.33 | 99 | 14-Jun-07 | 24 | Kirkfeild | UNB - Through Diffusion (PSI) | | |
| DGR2-747.04 | 100 | 15-Jun-07 | 16 | Kirkfeild | P&S Testing | P&S Testing - Canmet | UCS - Canmet |
| DGR2-747.42 | 100 | 15-Jun-07 | 18 | Kirkfeild | Archive | | |
| DGR2-747.75 | 100 | 15-Jun-07 | 30 | Kirkfeild | Archive | | |
| DGR2-748.05 | 100 | 15-Jun-07 | 30 | Kirkfeild | Unibern - Porewater | | |
| DGR2-748.92 | 100 | 15-Jun-07 | 25 | Kirkfeild | U of O - Pore Water | | |
| DGR2-749.32 | 100 | 15-Jun-07 | 8 | Kirkfeild | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-751.00 | 101 | 15-Jun-07 | 30 | Kirkfeild | Archive | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis - 2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|------------|-----------------------------------|--------------------------------|--------------|
| DGR2-751.38 | 101 | 15-Jun-07 | 17 | Kirkfeild | P&S Testing | | |
| DGR2-753.50 | 102 | 15-Jun-07 | 12 | Kirkfeild | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-754.34 | 102 | 15-Jun-07 | 28 | Kirkfeild | Archive | | |
| DGR2-757.13 | 103 | 15-Jun-07 | 15 | Kirkfeild | P&S Testing | | |
| DGR2-758.15 | 103 | 15-Jun-07 | 31 | Kirkfeild | Archive | | |
| DGR2-759.20 | 104 | 15-Jun-07 | 29 | Kirkfeild | Archive | | |
| DGR2-760.66 | 104 | 15-Jun-07 | 5 | Kirkfeild | Point Load Testing - Axial | | |
| DGR2-760.74 | 104 | 15-Jun-07 | 10 | Kirkfeild | Point Load Testing - Diametral | | |
| DGR2-762.19 | 105 | 15-Jun-07 | 34.5 | Coboconk | Archive | | |
| DGR2-762.70 | 105 | 15-Jun-07 | 17 | Coboconk | Point Load Testing - Diametral | | |
| DGR2-762.86 | 105 | 15-Jun-07 | 5 | Coboconk | Point Load Testing - Axial | | |
| DGR2-763.81 | 105 | 15-Jun-07 | 21 | Coboconk | Archive | | |
| DGR2-764.95 | 107 | 15-Jun-07 | 11 | Coboconk | Point Load Testing - Diametral | | |
| DGR2-765.16 | 107 | 15-Jun-07 | 3 | Coboconk | Point Load Testing - Axial | | |
| DGR2-765.62 | 107 | 15-Jun-07 | 34 | Coboconk | Archive | | |
| DGR2-766.63 | 107 | 15-Jun-07 | 33 | Coboconk | Archive | | |
| DGR2-767.05 | 107 | 15-Jun-07 | 18.5 | Coboconk | P&S Testing | | |
| DGR2-768.35 | 108 | 16-Jun-07 | 11 | Coboconk | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-769.11 | 108 | 16-Jun-07 | 34 | Coboconk | Archive | | |
| DGR2-769.61 | 108 | 16-Jun-07 | 18 | Coboconk | P&S Testing | | |
| DGR2-771.36 | 110 | 17-Jun-07 | 18 | Coboconk | P&S Testing | | |
| DGR2-772.40 | 110 | 17-Jun-07 | 38 | Coboconk | Archive | | |
| DGR2-775.41 | 111 | 18-Jun-07 | 12 | Coboconk | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-775.99 | 111 | 18-Jun-07 | 29 | Coboconk | Archive | | |
| DGR2-776.50 | 111 | 18-Jun-07 | 20 | Coboconk | Slake Durability | | |
| DGR2-777.22 | 112 | 18-Jun-07 | 10 | Coboconk | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-778.61 | 112 | 18-Jun-07 | 22 | Coboconk | Archive | | |
| DGR2-779.04 | 112 | 18-Jun-07 | 37 | Gull River | Archive | | |
| DGR2-779.64 | 112 | 18-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-781.70 | 113 | 18-Jun-07 | 35 | Gull River | Archive | U of O - Pore Water | |
| DGR2-782.55 | 113 | 18-Jun-07 | 10 | Gull River | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-784.77 | 114 | 18-Jun-07 | 18.5 | Gull River | P&S Testing | | |
| DGR2-785.06 | 114 | 18-Jun-07 | 34 | Gull River | Archive | | |
| DGR2-787.46 | 115 | 19-Jun-07 | 35 | Gull River | Archive | | |
| DGR2-788.21 | 115 | 19-Jun-07 | 5.5 | Gull River | Point Load Testing - Axial | | |
| DGR2-788.29 | 115 | 19-Jun-07 | 9.5 | Gull River | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR2-788.44 | 115 | 19-Jun-07 | 18.5 | Gull River | P&S Testing | | |
| DGR2-790.50 | 116 | 19-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-791.23 | 116 | 19-Jun-07 | 27 | Gull River | Archive | | |
| DGR2-791.81 | 116 | 19-Jun-07 | 19.5 | Gull River | Slake Durability | | |
| DGR2-792.52 | 117 | 19-Jun-07 | 34 | Gull River | UNB - Diffusion - Radiography x 1 | | |
| DGR2-792.87 | 117 | 19-Jun-07 | 33 | Gull River | Archive | | |
| DGR2-794.52 | 117 | 19-Jun-07 | 18 | Gull River | Archive | | |
| DGR2-794.90 | 117 | 19-Jun-07 | 12 | Gull River | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR2-795.04 | 117 | 19-Jun-07 | 18 | Gull River | Core Labs - Petrophysics | | |
| DGR2-796.05 | 118 | 19-Jun-07 | 29 | Gull River | Unibern - Porewater | | |
| DGR2-796.37 | 118 | 19-Jun-07 | 33 | Gull River | Unibern - Porewater | | |
| DGR2-796.59 | 118 | 19-Jun-07 | 12 | Gull River | Unibern - Noble gases | | |
| DGR2-796.96 | 118 | 19-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-797.25 | 118 | 19-Jun-07 | 34 | Gull River | Archive | | |
| DGR2-797.60 | 118 | 19-Jun-07 | 27 | Gull River | U of O - Pore Water | | |
| DGR2-798.73 | 119 | 19-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-799.29 | 119 | 19-Jun-07 | 31 | Gull River | Archive | | |
| DGR2-800.59 | 119 | 19-Jun-07 | 11 | Gull River | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-803.07 | 120 | 19-Jun-07 | 34 | Gull River | Archive | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|-------------|--------------------------------|--------------------------------|---------------------|
| DGR2-803.88 | 120 | 19-Jun-07 | 19 | Gull River | P&S Testing | | |
| DGR2-806.28 | 121 | 20-Jun-07 | 30 | Gull River | Archive | | |
| DGR2-806.58 | 121 | 20-Jun-07 | 5 | Gull River | Point Load Testing - Axial | | |
| DGR2-806.66 | 121 | 20-Jun-07 | 10 | Gull River | Point Load Testing - Diametral | Point Load Testing - Axial | |
| DGR2-808.68 | 122 | 20-Jun-07 | 30 | Gull River | Unibern - Porewater | | |
| DGR2-809.44 | 122 | 20-Jun-07 | 20 | Gull River | Slake Durability | | |
| DGR2-809.66 | 122 | 20-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-813.00 | 123 | 20-Jun-07 | 32 | Gull River | Archive | U of O - Pore Water | |
| DGR2-813.32 | 123 | 20-Jun-07 | 10 | Gull River | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-813.70 | 124 | 20-Jun-07 | 32 | Gull River | Unibern - Porewater | | |
| DGR2-814.80 | 124 | 20-Jun-07 | 26 | Gull River | Archive | | |
| DGR2-815.52 | 124 | 20-Jun-07 | 23 | Gull River | Unibern - Noble gases | | |
| DGR2-816.42 | 124 | 20-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-816.60 | 124 | 20-Jun-07 | 14 | Gull River | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-816.85 | 125 | 22-Jun-07 | 20 | Gull River | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-818.61 | 125 | 22-Jun-07 | 12 | Gull River | Core Labs - Petrophysics | | |
| DGR2-819.02 | 125 | 22-Jun-07 | 10 | Gull River | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-819.22 | 125 | 22-Jun-07 | 30 | Gull River | Archive | | |
| DGR2-819.52 | 125 | 22-Jun-07 | 30 | Gull River | UNB - Through Diffusion (PSI) | | |
| DGR2-819.77 | 125 | 22-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-821.19 | 126 | 22-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-821.88 | 126 | 22-Jun-07 | 19 | Gull River | Archive | | |
| DGR2-822.13 | 126 | 22-Jun-07 | 31 | Gull River | Unibern - Porewater | | |
| DGR2-822.42 | 126 | 22-Jun-07 | 25 | Gull River | U of O - Pore Water | | |
| DGR2-822.81 | 126 | 22-Jun-07 | 28 | Gull River | Archive | | |
| DGR2-824.19 | 127 | 22-Jun-07 | 12 | Gull River | Point Load Testing - Axial | Point Load Testing - Diametral | |
| DGR2-824.40 | 127 | 22-Jun-07 | 29 | Gull River | Archive | U of O - Pore Water | |
| DGR2-828.01 | 128 | 22-Jun-07 | 32 | Gull River | Archive | U of O | |
| DGR2-828.26 | 128 | 22-Jun-07 | 18 | Gull River | P&S Testing | | |
| DGR2-830.30 | 129 | 22-Jun-07 | | Gull River | | | |
| DGR2-831.33 | 129 | 22-Jun-07 | 32 | Gull River | Archive | | |
| DGR2-833.79 | 130 | 22-Jun-07 | 22 | Gull River | P&S Testing | | |
| DGR2-834.05 | 130 | 22-Jun-07 | 30 | Gull River | Archive | U of O | |
| DGR2-834.78 | 130 | 22-Jun-07 | 11 | Gull River | Point Load Testing - Diametral | | |
| DGR2-835.02 | 130 | 22-Jun-07 | 3 | Gull River | Point Load Testing - Axial | | |
| DGR2-835.73 | 131 | 23-Jun-07 | 30 | Gull River | Archive | U of O | |
| DGR2-836.65 | 131 | 23-Jun-07 | 34 | Gull River | Archive | U of O | |
| DGR2-838.43 | 132 | 23-Jun-07 | 14 | Gull River | Point Load Testing - Diametral | | |
| DGR2-838.52 | 132 | 23-Jun-07 | 4 | Gull River | Point Load Testing - Axial | | |
| DGR2-839.06 | 132 | 23-Jun-07 | 18 | Shadow Lake | P&S Testing | | |
| DGR2-839.89 | 132 | 23-Jun-07 | 34 | Shadow Lake | Archive | U of O | |
| DGR2-840.26 | 132 | 23-Jun-07 | 0 | Shadow Lake | Unibern - Porewater | Unibern - Noble gases | |
| DGR2-842.23 | 133 | 23-Jun-07 | 23 | Shadow Lake | Unibern - Porewater | | |
| DGR2-844.95 | 134 | 23-Jun-07 | 17 | Cambrian | ActLabs - mineralogy/petrology | ActLabs - litho geochemistry | ActLabs - SEM & EDS |
| DGR2-845.96 | 134 | 23-Jun-07 | 14 | Cambrian | Core Labs - Petrophysics | | |
| DGR2-846.17 | 134 | 23-Jun-07 | 28 | Cambrian | UNB - Archive Diffusion | | |
| DGR2-848.44 | 138 | 9-Jul-07 | 23 | Cambrian | Archive | | |
| DGR2-852.10 | 143 | 20-Jul-07 | 32 | Cambrian | Archive | | |
| DGR2-852.39 | 143 | 20-Jul-07 | 32 | Cambrian | Unibern - Porewater | | |
| DGR2-854.73 | 144 | 21-Jul-07 | 14 | Cambrian | Archive | | |
| DGR2-855.89 | 144 | 21-Jul-07 | 17 | Cambrian | Unibern - Porewater | | |
| DGR2-857.22 | 145 | 24-Jul-07 | 29 | Cambrian | Unibern - Porewater | | |
| DGR2-857.71 | 145 | 24-Jul-07 | 29 | Cambrian | Archive | | |
| DGR2-861.20 | 146 | 3-Aug-07 | 11 | Precambrian | Archive | | |
| DGR2-861.53 | 146 | 3-Aug-07 | 14 | Precambrian | OGS | | |

| Sample ID | Core Run | Date Collected | Sample Length (cm) | Formation | Analysis - 1 | Analysis -2 | Analysis - 3 |
|-------------|----------|----------------|--------------------|-------------|---------------------|-------------|--------------|
| DGR2-861.73 | 146 | 3-Aug-07 | 14 | Precambrian | Archive | | |
| DGR2-861.90 | 146 | 3-Aug-07 | 18 | Precambrian | Unibern - Porewater | | |