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06-1413-089/9000
November 27, 2007 Doc. 562 Ver. 0

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Meadowbank Mining Division
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Attention: Larry Connell, P. Eng.
Regional Manager: Environment, Social and Government Affairs

RE: LANDFILL DESIGN AND MANAGEMENT PLAN
SUPPLEMENTARY INFORMATION
MEADOWBANK GOLD PROJECT, NUNAVUT

Dear Mr. Connell

The following discussion supplements the information contained in Golder Associates Ltd's (Golder's) August 27, 2007 report on *Landfill Design and Management Plan, Meadowbank Gold Project* (Doc. 458), (Landfill report) pertaining to the landfills proposed for the Meadowbank Gold Project located 70 km north of Baker Lake, Kivalliq Region of Nunavut. This letter is prepared in response to the November 2, 2007 letters from Indian and Northern Affairs Canada (INAC) and Environment Canada (EC).

In particular, the following comments pertain to the landfills to be developed at the site:

- The 'Landfill report' states explicitly under **Section 4.1 - Approach** that: *'the leachate from the proposed landfills is anticipated to be very weak due to the controls on materials placed in the landfill and thus site specific landfill leachate management is not considered to be required.'* As ash from the incinerator is proposed to be disposed of in the landfill, INAC recommends leachate monitoring. [INAC]

- **Section 4.4 Total Volume of Waste** would benefit vastly if a reference/source was provided for the calculations and numbers given. Why is it assumed that each person will produce 1 tonne of refuse each year and that 50% of that weight can be incinerated? How did they arrive at these numbers? It would lend credibility to the total volume of waste if a proper source was referenced. [INAC]

- A plan that effectively discusses the specifics of the landfill design and management of the facility should be submitted.[EC]

- Information on how waste will be controlled and managed to reduce or eliminate the attraction to carnivores and/or raptors should be incorporated in the final plan. [EC]

1.0 LANDFILL DESIGN AND MANAGEMENT

There will be two solid waste landfills constructed during the operation of the mine and to satisfy waste disposal needs for the project: Landfill #1 and Landfill #2. The landfills will accept select 'materials' from the operation (non hazardous, non organic solid wastes). Waste materials that will "not be acceptable", for disposal in the landfill are as outlined in Golder's August 2007 report (Doc 458). In particular, organic matter will not be accepted in the landfill, thus eliminating the attraction to carnivores and/or raptors. This will be accomplished by requiring all personnel to dispose domestic waste in designated receptacles and by sending all collected domestic waste (e.g. from kitchens and living quarters) to the site incinerator.

Landfill #1 will be constructed and operated in the first phase of the operation (Year -1 to about Year 9). As shown on Drawing 1, Landfill #1 will eventually be covered by the Portage Rock Storage Facility (RSF) in about Year 9 of the mine life. Prior to the closure and covering of Landfill #1 by waste rock of the Portage RSF, Landfill #2 will be developed on top of the Portage RSF. Details and the exact location of Landfill #2 on top of the rock storage facility cannot be provided at this time because the Portage RSF presently does not exist and will not reach a grade suitable for construction of the landfill until later in the mine life.

Drawing 2 shows the Landfill #1 location in relation to internal water quality monitoring points in the Attenuation Pond and Reclaim Pond located within the Tailings Storage Facility (TSF). Any leachate generated by the landfill will be directed to the contact water collection system for the Portage Rock Storage Facility (RSF) and report to a contact water collection sump (Sump #3) located north of the Portage RSF. An internal

water quality monitoring point will be located at this sump, and any water reporting to the sump will be pumped to either the Attenuation Pond or Reclaim Pond depending water quality sampling results. The water quality monitoring plan for this location is described in Meadowbank Mining Corporation's (MMC) August 2007 report *Meadowbank Gold Project Water Quality and Flow Monitoring Plan* (Doc. 450). Due to the fact that the Portage RSF will cover Landfill #1, it is not proposed to have a separate water quality monitoring point for leachate from Landfill #1.

The design of Landfill #1 does not require imported materials or exacting survey data or measurement. This is due to the restriction on materials that can be landfilled as described in Golder's August 2007 report and the location of the landfill within the catchment of the Portage RSF. These factors reduce the need for leachate collection or control or mitigation measures against vectors such as carnivores or raptors. Thus, the main environmental mitigation measure required is a wind screen to reduce wind blown debris. Wind protection for the waste is provided by the 5.5 m high north perimeter berm and the 4.5 m high south perimeter berm and the progressive closure of the landfill facility as indicated on Note 3 and Cross-Section A of Drawing 3.

2.0 WASTE VOLUME

An estimate of waste volume is required to estimate the approximate size of the landfills, however an exact waste volume is not a critical parameter in the design because of the flexibility of design to accommodate extensions (larger to accept more waste) or contractions (smaller to accept less waste) of the landfill. This is especially the case of Landfill #2 which is to be located on a facility that is to be built (the Portage RSF) so the size can be adjusted as needed. Preparation of the detailed design of Landfill #2 needs to wait until the Portage RSF has reached a suitable grade later in the mine life. It is proposed that the detailed design for Landfill #2 be completed a minimum of one year prior to commissioning of the landfill. At that time, the required size of Landfill #2 will be calculated based on the actual rate of filling of Landfill #1 and the estimated amount of demolition material and decommissioned equipment that will need to be landfilled at the end of the mine life.

For conceptual planning of landfill capacity, it was estimated that 344 persons (size of on-site camp facility) will be employed at any one time on-site. To be conservative and to allow for demolition of the mine plant at the end of mine life, we have assumed a population of 500 persons in our analysis. Environment Canada's 'State of the Environment InfoBase', Environmental Indicator Series 2003 (http://www.ec.gc.ca), indicates that the per capita non-hazardous solid waste generation in 2000 for Canada

was almost 1 tonne per person per year. Thus, for landfill conceptual planning purposes, 500 tonnes of waste has been assumed to be generated each year.

If this solid waste is incinerated, then incineration will result in ash with about 25% of the weight (or 125 tonnes/year) and 10% of the volume of the original solid waste. However, as an allowance for demolition and construction waste, double this amount, or 250 tonnes of waste, has been assumed to be landfilled each year.

We trust this supplementary information provides the required information at this time. If you have any questions, please do not hesitate to contact us.

Yours very truly,

GOLDER ASSOCIATES LTD.

ORIGINAL SIGNED BY

Colin L.Y. Wong, P. Eng., (BC)
Principal

ORIGINAL SIGNED AND SEALED BY

John Hull, P. Eng., (NT/NU)
Principal

CW/JAH/lw

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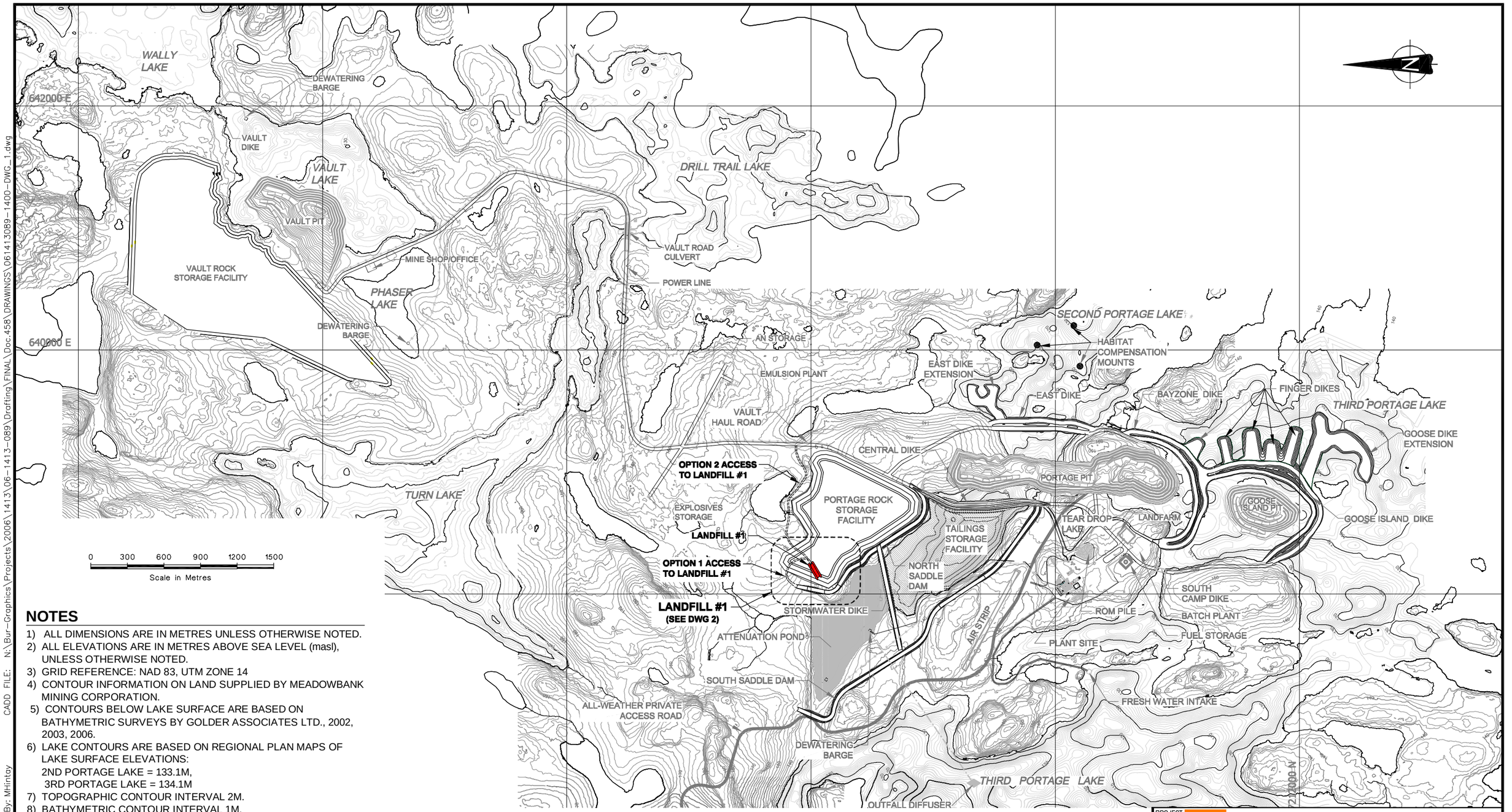

NOTES

1) ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2) ALL ELEVATIONS ARE IN METRES ABOVE SEA LEVEL (masl), UNLESS OTHERWISE NOTED.
3) GRID REFERENCE: NAD 83, UTM ZONE 14
4) CONTOUR INFORMATION ON LAND SUPPLIED BY MEADOWBANK MINING CORPORATION.
5) CONTOURS BELOW LAKE SURFACE ARE BASED ON BATHYMETRIC SURVEYS BY GOLDER ASSOCIATES LTD., 2002, 2003, 2006.
6) LAKE CONTOURS ARE BASED ON REGIONAL PLAN MAPS OF LAKE SURFACE ELEVATIONS:
   2ND PORTAGE LAKE = 133.1M,
   3RD PORTAGE LAKE = 134.1M
7) TOPOGRAPHIC CONTOUR INTERVAL 2M.
8) BATHYMETRIC CONTOUR INTERVAL 1M.

NOT FOR CONSTRUCTION

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
1	NOV-07	-	DETAILED DESIGN	JK	-	-

DRAWING NO.	REFERENCES
A1-131395-100-C-0001	AMEC AMERICAS LTD. MEADOWBANK FEASIBILITY STUDY, APRIL 2005.

STAMP

PROJECT

AEM **AGNICO-EAGLE MINES LIMITED**
MEADOWBANK DIVISION

TITLE

LANDFILL DETAILED DESIGN
OVERALL SITE PLAN

Golder Associates

PROJECT No. 06-1413-089			FILE No. 061413089-1400-FIG_1		
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CADD	AS	15AUG07	DWG 1		
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REVIEW					

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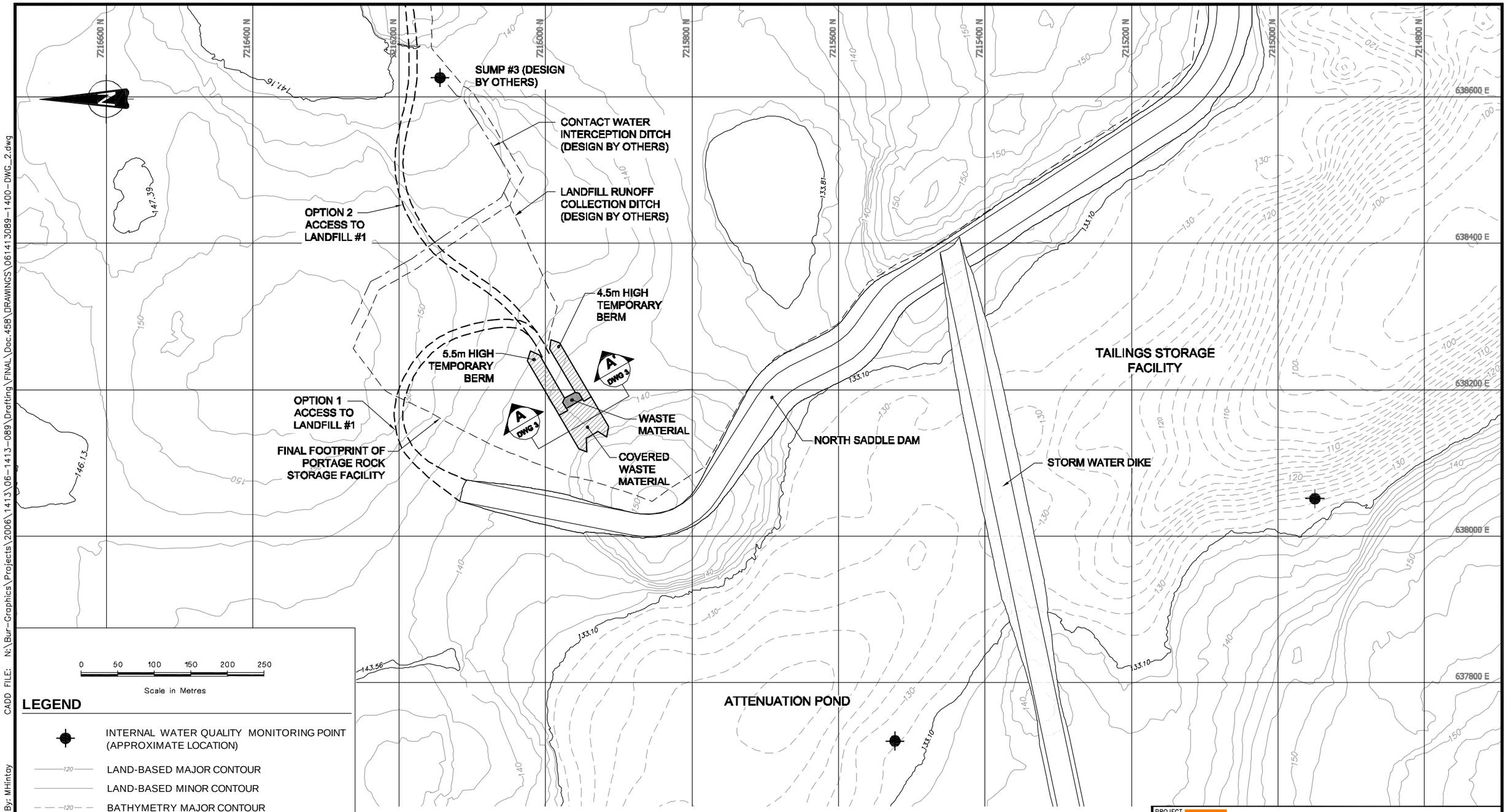

0 50 100 150 200 250

Scale in Metres

LEGEND

- INTERNAL WATER QUALITY MONITORING POINT (APPROXIMATE LOCATION)
- 120 LAND-BASED MAJOR CONTOUR
- LAND-BASED MINOR CONTOUR
- 120 BATHYMETRY MAJOR CONTOUR
- BATHYMETRY MINOR CONTOUR

NOT FOR CONSTRUCTION

DRAWING NO.	REFERENCES
Doc. 450, Rev.0	MEADOWBANK GOLD PROJECT WATER QUALITY AND FLOW MONITORING PLAN. 27-AUG-07 MEADOWBANK MINING CORP
A1-131395-100-C-0001	AMEC AMERICAS LTD. MEADOWBANK FEASIBILITY STUDY, APRIL 2005.

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
0	NOV-07	-	DETAILED DESIGN	JK	-	-

STAMP

PROJECT

AEM AGNICO-EAGLE MINES LIMITED
MEADOWBANK DIVISION

TITLE

LANDFILL DETAILED DESIGN
LANDFILL #1 LOCATION PLAN

Golder Associates

PROJECT No. 06-1413-089			FILE No. 061413089-1400-FIG_1		
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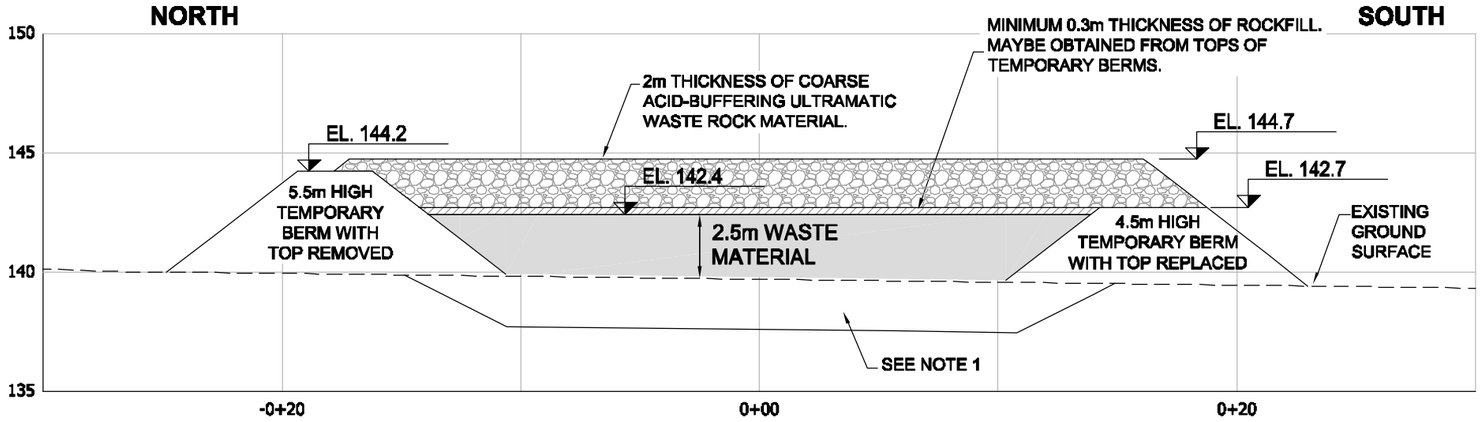

A - LANDFILL CROSS SECTION (AFTER PLACEMENT OF COVER)

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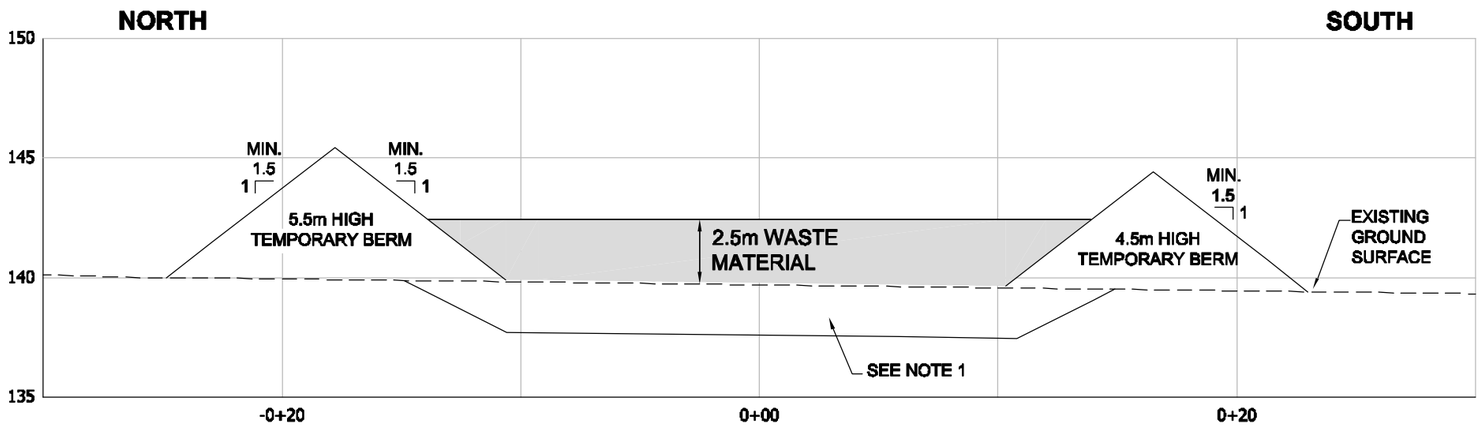
Scale in Metres



B - LANDFILL CROSS SECTION (PRIOR TO PLACEMENT OF COVER)

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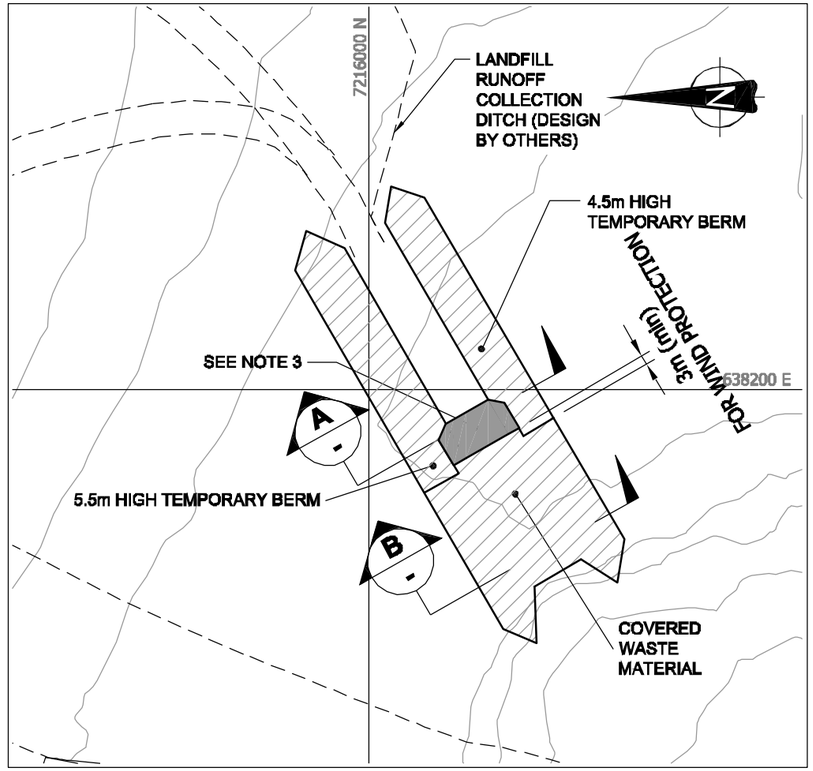
Scale in Metres



PROGRESSIVE PLACEMENT OF ROCKFILL COVER DURING LANDFILL OPERATION

0 20 40 60 80 100
Scale in Metres

NOTES

1) EXCAVATION SOIL TO BEDROCK OR 2.1m DEPTH, WHICHEVER IS LESS AND REPLACE WITH 100mm MINUS GRAVEL HAVING LESS THAN 5% PASSING THE USS NO.100 SIEVE.
2) TEMPORARY BERM MATERIAL SHALL BE ROCKFILL.
3) ACTIVE AREA WITH EXPOSED WASTE MATERIAL SHALL BE MAXIMUM 15m LONG BY 24m WIDE AREA.

NOT FOR CONSTRUCTION

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RWV
A	NOV-07	-	DETAILED DESIGN	JK	-	-

A1-131395-100-C-0001 — DRAWING NO.
AMEC AMERICAS LTD. MEADOWBANK FEASIBILITY STUDY, APRIL 2005. — REFERENCES

STAMP

PROJECT
AEM AGNICO-EAGLE MINES LIMITED
MEADOWBANK DIVISION

TITLE
LANDFILL DETAILED DESIGN
LANDFILL #1 CROSS SECTIONS

Golder Associates

PROJECT No.	06-1413-089		FILE No.	061413089-1400-FIG_1	
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