



AGRA Earth &
Environmental Limited
95 Scurfield Boulevard
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August 20, 1996
Project: WX-03866

Manitoba Environment
Building 2 - 139 Tuxedo Avenue
Winnipeg, Manitoba
R2W 5J5



Attention: Mr. Rick Lemoine, P.Geol.

Dear Sir;

RE: PLATE COUNT ANALYSIS
CENTRA GAS SOIL REMEDIATION PROJECT
SUTHERLAND AVENUE ELEVATOR ADDITION
WINNIPEG, MANITOBA

As requested during our meeting of June 25, 1996, AGRA Earth & Environmental Limited (AEE) submitted 2 soil samples from the above project for laboratory analysis to determine total plate count. The samples were obtained from the Mid Canada Soil Treatment site in Sanford, Manitoba, where the soil was being temporarily stockpiled. The sampling was undertaken on June 26, 1996. The purpose of the plate count analysis was to determine if there was sufficient indigenous bacteria to explain the large reduction in PAH levels, which has occurred within the soil stockpile.

The test results are attached. For reference, the sample numbers used are identical to those used in AEE's July 5, 1996 letter. The total bacteria count identified by the test is considered to be characteristic of a clay soil with an active population of heterotrophic organisms and their presence could explain the reduction in PAH concentrations which have occurred.

If you have any questions regarding this letter, please contact the undersigned at your convenience.

Yours truly,

AGRA Earth & Environmental Limited

Harley Pankratz, P.Eng.
Manager; Winnipeg Operations

Reviewed by:

Robert Matthews, P.Geol.
Senior Hydrogeologist

cc: Centra Gas Manitoba Inc.: Joe Smolinski

Engineering & Environmental Services

Client : AGRA Earth & Environmental Limited
95B Scurfield Blvd.
Winnipeg, Manitoba R3T 1G4

Date: July 25, 1996

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Project Name : Centra Gas

Sample Type: Soil

Project No. : WX-03866

Lab Ref.: F96-0930

Contact : Harley Panktraz


Final


Certificate of Analysis

Lab # Unit	Sample ID	Total Plate Count * Cts/g
S9603619	Sample 1 (26/06/96)	4,660,000 /g
S9603622	Sample 4 (26/06/96)	2,340,000 /g

10⁶
10⁶

Comments: * Analyses performed by SGS Pharmaceutical Laboratories, Mississauga, Ontario.


Cynthia Ridge, C.Chem.
Q.A./Q.C. Officer


Suman Punani, C.Chem.
Laboratory Manager

