Ohio Environmental Protection Agency
John R. Kasich, Governor
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Scott J. Nally, Director

OHIO E.P.A.
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I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

By: Dawn Lassiter Date: 10-25-11

October 25, 2011

Mohammad Ali
Waste Management
American Landfill
7916 Chapel Street, S.E.
Waynesburg, OH 44688-9700

RE: AMERICAN LANDFILL, STARK COUNTY
OHIO ADMINISTRATIVE CODE (OAC) RULE 3745-27-10(D)(7)(c)(ii) APPROVAL
2011 FIRST SEMIANNUAL DETECTION MONITORING EVENT

Dear Mr. Ali:

On September 22, 2011, the Ohio Environmental Protection Agency (Ohio EPA), Division of Materials and Waste Management (DMWM), Northeast District Office (NEDO), received a document titled *2011 First Semiannual Groundwater Monitoring Demonstration OAC Rule 3745-27-10(D)(7)(c)(ii) Request for Director's Approval* dated September 21, 2011, for the American Landfill (Facility) located in Stark County. This document was submitted by Eagon and Associates, Inc., and contains the ground water sampling results and the statistical analysis from the April 18 and June 6, 2011, ground water sampling events at the Facility.

According to the document, analysis of the ground water detection monitoring data indicated that the following statistically significant differences (SSDs) were detected: Sodium in AMW-3; Sodium and Chloride in AMW-4; Potassium in AMW-5; Ammonia in AMW-15; Sodium in LKC-3A; Sodium and Chloride in LKC-4; Potassium in LKC-5; Sodium in LKC-7; Potassium, Sodium and Chloride in UC-2; Barium and Selenium in PHL/BC-1; Benzene and Toluene in PHL/BC-4; Barium in PHL/BC-5; Barium, Potassium and Sodium in PHL/BC-10; Sodium in PHL/BC-11; Selenium in PHL/BC-12; Selenium in PHL/BC-14; Copper in PHL/BC-15; Barium, Chloride and Sodium in PHL/BC-17; Cobalt, Copper, Nickel, and Zinc in PHL/BC-21; and Arsenic in PHL/BC-23.

Verification sampling was performed on June 6, 2011. Analysis of the re-sampling data demonstrated that the statistically significant changes for Toluene in PHL/BC-4; Copper in PHL/BC-15; Chloride in PHL/BC-17; Copper in PHL/BC-21; and Arsenic in PHL/BC-23 were false positives. Therefore, the following monitoring wells were automatically returned to the detection monitoring program pursuant to OAC Rule 3745-27-10(D)(7)(c)(i) for the initial SSDs in the April 18, 2011, sampling event: PHL/BC-4 for Toluene; PHL/BC-15 for Copper; PHL/BC-17 for Chloride; PHL/BC-21 for Copper; and PHL/BC-23 for Arsenic. Ohio EPA acknowledges the return of these wells to the detection monitoring program. However, the re-sampling data verified the SSDs for Sodium in AMW-3; Sodium and Chloride in AMW-4; Potassium in AMW-5; Ammonia in AMW-15; Sodium in LKC-3A; Sodium and Chloride in LKC-4; Potassium in LKC-5; Sodium in LKC-7; Potassium, Sodium and Chloride in UC-2;

Barium and Selenium in PHL/BC-1; Benzene in PHL/BC-4; Barium in PHL/BC-5; Barium, Potassium and Sodium in PHL/BC-10; Sodium in PHL/BC-11; Selenium in PHL/BC-12; Selenium in PHL/BC-14; Barium and Sodium in PHL/BC-17; and Cobalt, Nickel and Zinc in PHL/BC-21.

Pursuant to OAC Rule 3745-27-10(D)(7)(c)(ii), the owner or operator may demonstrate that a source other than the sanitary landfill facility caused the contamination, or that the SSDs resulted from error in sampling, analysis, or statistical evaluation or natural variation in ground water quality. A report documenting this demonstration must be submitted to and approved by Ohio EPA. If the owner or operator does not obtain approval to continue detection monitoring within two hundred ten (210) days from initial sampling, the owner or operator is required to comply with the provisions of OAC Rule 3745-27-10(E) for ground water quality assessment monitoring.

The September 22, 2011, submittal concluded that the SSDs of Sodium in AMW-3; Sodium and Chloride in AMW-4; Potassium in AMW-5; Ammonia in AMW-15; Sodium in LKC-3A; Sodium and Chloride in LKC-4; Potassium in LKC-5; Sodium in LKC-7; Potassium, Sodium and Chloride in UC-2; Barium and Selenium in PHL/BC-1; Benzene in PHL/BC-4; Barium in PHL/BC-5; Barium, Potassium and Sodium in PHL/BC-10; Sodium in PHL/BC-11; Selenium in PHL/BC-12; Selenium in PHL/BC-14; Barium and Sodium in PHL/BC-17; and Cobalt, Nickel and Zinc in PHL/BC-21 were false positives due to an alternative source, statistical analysis, and/or variability within the uppermost aquifer system (UAS) and the significant zone of saturation (SZS).

Ohio EPA has reviewed the applicable information and concurs with the demonstration included in the September 22, 2011, submittal for monitoring wells AMW-3, AMW-4, AMW-5, AMW-15, LKC-3A, LKC-4, LKC-5, LKC-7, UC-2, PHL/BC-1, PHL/BC-4, PHL/BC-5, PHL/BC-10, PHL/BC-11, PHL/BC-12, PHL/BC-14, PHL/BC-17, and PHL/BC-21. Therefore, pursuant to OAC Rule 3745-27-10(D)(7)(c)(ii), the owner or operator is hereby authorized to continue the detection monitoring program at the Facility for monitoring wells AMW-3, AMW-4, AMW-5, AMW-15, LKC-3A, LKC-4, LKC-5, LKC-7, UC-2, PHL/BC-1, PHL/BC-4, PHL/BC-5, PHL/BC-10, PHL/BC-11, PHL/BC-12, PHL/BC-14, PHL/BC-17, and PHL/BC-21.

Should future or existing ground water sampling results indicate SSDs in ground water monitoring parameters, the owner or operator will be required to either enter into assessment monitoring in accordance with OAC Rule 3745-27-10(E) or obtain approval to remain in the detection monitoring program.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to ORC Section 3745.04. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee

of $70.00, made payable to "Treasurer, State of Ohio." The Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, Ohio 43215

If you have any questions concerning this letter, please contact Joshua Adams of Ohio EPA, DMWM-NEDO at (330) 963-1103.

Sincerely,

Kurt M. Princic
Chief, Northeast District Office
for Scott J. Nally
Director, Ohio EPA

KMP/SJN/JA/cl

cc: Scott Hester, DMWM-CO
Joshua Adams, DMWM-NEDO
Jeff Rizzo, DDAGW-NEDO
Kirk Norris, Stark County Health Department