



**CERTIFIED**

February 14, 2013

Mr. Bob Walls  
Republic Services, Inc.  
12604 County Road G  
Bryan, OH 43506

**RE:** Williams County Landfill  
Draft Permit to Install  
PTI # 748132

Dear Mr. Walls:

The application for a Permit to Install (PTI) with accompanying plans and specifications for the above referenced facility has been reviewed by the staff of the Ohio EPA. It is the recommendation of the staff that the director issue a PTI since your proposal appears to comply with applicable Ohio solid waste rules.

Therefore, enclosed please find a Permit to Install which is being issued to you today in draft form pursuant to Ohio Revised Code Chapter 3734 and the rules adopted thereunder.

A public notice concerning the issuance of this draft Permit to Install will appear in The Bryan Times, Leader Enterprise, Edgerton Earth and The Village Reporter newspapers. A public hearing will be held on Thursday, March 28, 2013, at 7 p.m. in the Bryan Middle School Commons, 1301 Center Street, Bryan, OH 43506 in Williams County. Written comments will be accepted for the director's consideration through April 5, 2013. The application may be reviewed in accordance with Ohio EPA's file review procedures by contacting Ohio EPA Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402, Tel: (419) 352-8461.

Following the close of the public comment period, the director may issue a final Permit to Install upon such terms and conditions as he finds necessary to ensure that the operation of your facility is in accordance with Ohio's solid waste rules.

Mr. Bob Walls  
Republic Services, Inc.  
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Please be advised that the detailed plans which you had submitted with your application will be transmitted with the issuance of the final permit. If you have any questions concerning this draft Permit to Install, please contact the Ohio EPA Northwest District Office at the above address and telephone number.

Sincerely,

A handwritten signature in cursive script, appearing to read "Georgia Frakes".

Georgia Frakes  
Division of Materials and Waste Management

Enclosures: Draft Permit

cc: Brad Mitchell, DMWM, CO  
Scott Hester, DMWM, CO  
Mary Wright, DMWM, NWDO

**OHIO ENVIRONMENTAL PROTECTION AGENCY  
PERMIT TO INSTALL**

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**Application Number:** 748132  
**Application Received:** January 8, 2010  
**Permit Fee:** \$25,138.24  
**Permit Fee Balance:** \$24,738.24

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**Applicant:** Republic Services, Inc.

**Address:** 11909 County Road G  
Bryan, Ohio 44506

**Facility:** Williams County Sanitary Landfill

**Location:** North side of County Road G and west of County Road 13  
Superior Township, Williams County

**Permit:** Vertical Expansion

**Issuance Date:**

**Effective Date:**

The above-named entity is hereby issued a permit to install (permit) for the above-described source pursuant to Ohio Administrative Code (OAC) Rule 3745-27-02. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed and/or modified in accordance with the plans, specifications, and/or information accompanying the permit application, the above-described source of environmental pollutants will operate in compliance with applicable state and federal laws, rules, and regulations, and does not constitute expressed or implied assurances that, if constructed and/or modified in accordance with those plans, specifications, and/or information accompanying the permit application, the above-described source of environmental pollutants will be granted the necessary operating permits and/or licenses. This permit is issued subject to the attached conditions which are hereby incorporated and made a part hereof.

Ohio Environmental Protection Agency

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Scott J. Nally, Director

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### **PERMIT SUMMARY**

This is a DRAFT permit to install (PTI Number 748132) which, if approved, authorizes a vertical expansion at the Williams County Sanitary Landfill (Facility), an existing municipal solid waste landfill in Williams County. Republic Services, Inc. is the applicant for the permit and is the operator of the Facility.

Specifically, this PTI authorizes the Facility to vertically expand the existing landfill by eliminating built-in waste berms; it adds tack-on berms to the side slopes. It will authorize approximately 2.5 million cubic yards of additional permitted airspace which increases the total disposal capacity at the Facility to approximately 28.8 million cubic yards. The total acreage within the limits of waste placement will not change. The vertical expansion will extend the landfill's life to an estimated 20.4 years based on the AMDWR of 3,000 tons or to an estimated 137.7 years based on the 2011 yearly waste receipts.

The vertical expansion will incorporate into its construction such features as a composite liner system (recompacted clay and a geomembrane liner), a leachate collection system, a surface water management system, a ground water monitoring system, an explosive gas monitoring system, an explosive gas extraction system, a separatory liner system, and a final closure cap system. The permit also incorporates 30 years of post-closure care and financial assurance for closure and post-closure care.

This permit grants Republic Services, Inc. two exemptions: from OAC Rule 3745-27-08(C)(1)(c), which requires that the composite liner system have a slope of at least 2.0 percent after settlement, and from OAC Rule 3745-27-07(H)(2)(d), which prohibits a landfill from being located above an unconsolidated aquifer capable of sustaining a yield of 100 gallons per minute for a 24-hour period.

This summary is provided solely for informational purposes and does not constitute a part of, or otherwise affect, the attached permit.

### **PERMIT CONDITIONS**

1. The Director of the Ohio Environmental Protection Agency (Ohio EPA), or an authorized representative, may enter upon the premises of the above-named applicant (permittee) at any reasonable time during construction and operation for the purpose of making inspections, conducting tests, or examining records or reports pertaining to the construction, modification, or installation of the above-described source of environmental pollutants (municipal solid waste disposal facility).
2. The Facility shall be constructed in strict accordance with the plans, specifications,

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and information submitted to Ohio EPA which constitutes this permit. There shall be no deviation from the approved permit or the permit conditions without the express, written approval of Ohio EPA. Any deviation from the approved permit or the permit conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of this permit does not constitute an assurance that the Facility will operate in compliance with all Ohio laws and regulations. Additional landfill components shall be installed upon orders of Ohio EPA if the Facility is inadequate or cannot meet applicable standards.

3. Issuance of this permit does not relieve the permittee of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations.
4. This permit shall apply only to those facilities shown on the plans submitted as part of PTI Application Number 748132, received on January 8, 2010, with subsequent revisions received through August 3, 2012.
5. This permit may be modified, or alternatively revoked and reissued by the Director of Ohio EPA, to comply with any revisions to OAC Chapter 3745-27 applicable to this municipal solid waste disposal facility.
6. The permittee shall provide for the proper maintenance and operation of the Facility in accordance with the provisions of OAC Chapter 3745-27.
7. Nothing in this permit shall be construed to authorize any waiver from the requirements of any applicable federal or state laws or regulations except as specified herein. This permit shall not be interpreted to release the permittee from responsibility under Ohio Revised Code (ORC) Chapters 3704, 3714, 3734, or 6111; under the Federal Clean Water Act, the Resource Conservation and Recovery Act, or the Comprehensive Environmental Response, Compensation, and Liability Act; or from other applicable requirements for remedying conditions resulting from any release of contaminants to the environment.
8. This permit does not authorize the acceptance of any hazardous or infectious wastes, except for those excluded from hazardous or infectious waste regulation by ORC Chapter 3734.
9. This permit does not authorize the acceptance of any asbestos or asbestos-containing waste material that is subject to the provisions of NESHAP, 40 CFR Part 61, Subpart M. No such asbestos or asbestos-containing waste material may be accepted without first obtaining the necessary permits from Ohio EPA.
10. Not later than seven days prior to starting any construction authorized by this permit, the permittee shall submit to Ohio EPA, Northwest District Office (NWDO),

Division of Materials and Waste Management (DMWM) written notification of the anticipated construction start date, so that the construction can be routinely inspected by Ohio EPA, NWDO, DMWM.

11. The permittee shall perform the following activities during construction and operation of the Facility in accordance with the cited provisions of OAC Chapter 3745-27 as follows:
  - a. The test pad required by OAC Rule 3745-27-08(E) shall be constructed and a report containing the test results shall be submitted to Ohio EPA, NWDO not later than 14 days prior to the intended construction date of the landfill component that the test pad models.
  - b. The pre-construction tests required by OAC Rule 3745-27-08(D) shall be performed and the test results submitted to Ohio EPA, NWDO not later than seven days prior to the intended use of the materials in construction.
  - c. The pre-construction interface tests required by OAC Rule 3745-27-08(G) shall be performed and the test results submitted to Ohio EPA, NWDO not later than seven days prior to the use of each geosynthetic material authorized by this permit.
  - d. The construction certification report required by OAC Rule 3745-27-08(H) shall be submitted to Ohio EPA, NWDO not later than 45 days prior to the anticipated date of waste receipt. Pursuant to OAC Rule 3745-27-19(C)(1), the permittee shall not accept waste in a phase until Ohio EPA-NWDO provides written concurrence of the construction certification report for that phase.
  
12. The permittee shall provide for the following inspections and facility maintenance:
  - a. The permittee shall provide for daily inspection of the Facility and completion of the Municipal Solid Waste Landfill Daily Log of Operations, Form 3. Written results of the inspections, including any corrective actions taken, shall be made available to Ohio EPA upon request.
  - b. Surface water control structures, including sedimentation ponds, sedimentation pond discharge structures, pipes, ditches, and culverts, shall be inspected at least weekly for erosion, clogging, or failure and prompt corrective action shall be taken if necessary. Written results of the inspections, including a discussion of any corrective actions taken, any water quality samples taken, and the date and weather conditions, shall be

recorded on the required daily log forms. The information shall be maintained on site and submitted to Ohio EPA, DMWM, NWDO upon request.

- c. To ensure proper operation of the sedimentation pond(s), the pond(s) shall be evaluated annually for settlement elevations and cleaned out completely when the volume of the settled particles necessitates cleaning to maintain the storage volume required by OAC Rule 3745-27-08(D)(3).
13. The permittee shall fund a new financial assurance instrument or increase the amount listed on the existing financial assurance instrument in accordance with OAC Rules 3745-27-15, 3745-27-16, and 3745-27-17 for the current cost estimates of the facility, including the costs for the newly authorized disposal area. Funding shall be completed prior to waste acceptance in any disposal area newly authorized by this permit to install.
14. A summary of each month's daily waste receipts and leachate generation volumes shall be submitted to Ohio EPA, DMWM, NWDO by the 15<sup>th</sup> day of the following month. The summary report shall include the day of the month with the corresponding tonnage and types of waste received for that day. In addition, the summary report shall include the monthly totals of in-district and out-of-district waste received for each category of the reported waste streams. The report shall also provide information regarding leachate transported off-site, including the date of transport, the volume transported, and the destination of the transported leachate.
15. Construction certification reports for any constructed or repaired engineered component of the Facility shall be submitted to Ohio EPA, NWDO prior to April 1 of the year immediately following the construction or repair.
16. The permittee shall construct and fill the landfill in accordance with the 6-series drawings submitted as part of the PTI application and shall commence construction of the final cap system in accordance with the 6-series drawings, regardless of whether or not the entire phase has reached final elevations.
17. Ohio EPA shall be notified at least 2 days prior to any soil sampling, maintenance work, or scheduled repair at the site and within 24 hours of any emergency repair or unscheduled maintenance work to an existing engineering component.
18. The permittee shall follow the plan set forth in the June 1, 2012 letter to Ohio EPA from Civil & Environmental Consultants, Inc. (CEC) to install and incorporate five (5) ground water monitoring wells into the Facility's ground water detection monitoring program. Specifically, the permittee shall comply with the procedures

numbered one (1) through five (5) outlined on pages eight (8) through ten (10) of the submittal. The permittee shall incorporate all five (5) wells into the Facility's ground water detection monitoring program unless otherwise authorized by Ohio EPA.

19. The permittee shall comply with the requirements of all previously issued authorizing documents for the Facility, except, to the extent that this permit specifies requirements different from, or in addition to, the requirements of those previously issued authorizing documents, the permittee shall comply with this permit. This permit, and the terms and conditions herein, shall take precedence over any conflicting requirements.
20. The Facility's AMDWR is established to be 3,000 tons. The permittee shall not accept more than 3,000 tons of solid waste per day for disposal at the Facility.

#### **END OF PERMIT CONDITIONS**

#### **EXEMPTIONS**

Pursuant to ORC Section 3734.02(G) and OAC Rule 3745-27-03(B), the Director may, by order, exempt any person generating, collecting, storing, treating, disposing of, or transporting solid wastes, including scrap tires, from any requirement of ORC Chapter 3734 or any rules adopted thereunder if granting the exemption is unlikely to adversely affect the public health or safety or the environment

#### **Exemption from OAC Rule 3745-27-08(C)(1)(c)**

The permittee has requested an exemption from OAC Rule 3745-27-08(C)(1)(c), which states:

"The composite liner system shall be designed to do the following:

For existing facilities where an owner or operator proposes to vertically expand over a composite liner system that was constructed after December 31, 2003, the slope of the existing composite liner system located beneath the vertical expansion shall meet the design standard in paragraph (C)(1)(b) of this rule."

OAC Rule 3745-27-08(C)(1)(b) states, in part:

“(T)he composite liner system shall have at least a 2.0 percent slope in all areas, except along flow lines augmented by leachate collection pipes, after accounting for one hundred percent of the primary consolidation settlement and the secondary consolidation settlement of the compressible materials beneath the facility...”

The applicant has requested an exemption from the construction requirement for 6.76 acres built after December 31, 2003 requiring the area to have at least 2.0% slope in all areas after accounting for 100 percent of primary and secondary settlement, except along flow lines augmented by leachate collection pipes. After accounting for the additional waste in this area, Cells 3A and 3B, the final determined slope, at the shallowest point, is 1.76% after primary and secondary settlement. The applicant has shown that this area will maintain a positive slope and that the leachate head will be maintained below the twelve inch of head requirement, even under the worst case scenario (assuming the area has settled to 100 percent of primary and secondary settlement by this current time in the landfill’s life).

Ohio EPA has reviewed the exemption request and has determined that granting an exemption from OAC Rule 3745-27-08(C)(1)(c) is unlikely to adversely affect the public health or safety or the environment. Therefore, pursuant to ORC Section 3734.02(G), the permittee is hereby exempted from OAC Rule 3745-27-08(C)(1)(c). This exemption shall remain in effect throughout the effective period of this permit unless otherwise noted.

**Exemption from OAC Rule 3745-27-07(H)(2)(d)**

The permittee has requested an exemption from OAC Rule 3745-27-07(H)(2)(d), which prohibits a sanitary landfill facility from being located above an unconsolidated aquifer system capable of sustaining a yield of one hundred gpm for a twenty-four-hour period to an existing or future water supply well located within one thousand feet of the limits of solid waste placement of the sanitary landfill facility.

Under the solid waste regulations in effect from March 1, 1990 through August 14, 2003, the siting criteria prohibited issuance of a PTI to establish or expand a landfill located above a 100 gpm aquifer unless “deemed acceptable” by the Director. During consideration of PTI Application Number 03-6551, submitted on May 15, 1992 to satisfy the 1968-80 call-in requirement and proposing vertical and lateral expansion of the Facility, the applicant demonstrated that an extensive, clay rich till underlying the Facility provided an adequate barrier to protect the uppermost aquifer system from contamination from the Facility. Therefore, On April 5, 1995, Ohio EPA issued PTI Number 03-6551 which “deemed acceptable” the location of the Facility above the 100 gpm aquifer system.

On August 15, 2003, the solid waste regulations were revised such that the “unless

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deemed acceptable” language was deleted, thereafter requiring issuance of an exemption pursuant to ORC Section 3734.02(G) for a PTI issuance.

The permittee has demonstrated that the laterally and vertically extensive, clay-rich glacial till beneath the Facility effectively serves as a hydraulic barrier to the vertical movement of leachate and ground water and continues to provide adequate protection to the uppermost aquifer system.

Ohio EPA has reviewed the exemption request and has determined that granting an exemption from OAC Rule 3745-27-07(H)(2)(d) is unlikely to adversely affect the public health or safety or the environment. Therefore, pursuant to ORC Section 3734.02(G), the permittee is hereby exempted from OAC Rule 3745-27-07(H)(2)(d). This exemption shall remain in effect throughout the effective period of this permit unless otherwise noted.