



**Environmental  
Protection Agency**

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

November 14, 2011

**CERTIFIED MAIL**

Bond Road Site, Inc.  
11425 Bond Road  
West Harrison, Ohio 45030

**RE: Permit to Install #820233: Bond Road Landfill's  
Approval to Decrease AMDWR**

Dear Sir or Madam:

The Ohio Environmental Protection Agency, pursuant to Ohio Administrative Code Rule 3745-27-02 and the rules adopted thereunder, has reviewed the application for a permit with accompanying detail plans, specifications and/or information (hereinafter referred to as "application") regarding the above-referenced facility. This application has been approved by the Director subject to the conditions of compliance contained in the permit approval enclosed herewith and with all applicable laws, rules and standards. All construction must be supervised by an engineer or expert qualified in such work. Because the permit approval contains conditions of compliance, I urge you to read it carefully.

You are hereby notified that this action of the Director of Environmental Protection (Director) is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Appeals 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 the fee if by affidavit it is demonstrated 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 at the following address:

Environmental Review Appeals Commission  
77 South High Street 17<sup>th</sup> Floor  
Columbus, Ohio 43215

Bond Road Site, Inc  
Page 2

If you have any questions, please contact the Ohio EPA District Office to which you submitted your application.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Dearth". The signature is written in a cursive style with a large initial "B".

Brian Dearth  
Processing & Records Management Unit  
Division of Materials & Waste Management

Enclosures: Permit to Install

cc: Tracy Buchanan, SWDO, DMWM  
Scott Hester, CO, DMWM  
Hamilton County Health Department

**OHIO ENVIRONMENTAL PROTECTION AGENCY**  
**PERMIT-TO-INSTALL**

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Application Number: 820233  
Application Received: August 10, 2011  
Permit Fee: \$1,000.00  
Permit Fee Balance: \$ 0.00

Applicant: Bond Road Site, Inc  
Address: 11425 Bond Road  
West Harrison, Ohio 45030

Facility: Bond Road Landfill  
Location: The facility is located on a 129-acre tract which straddles the Ohio-Indiana border in southwestern Hamilton County. The landfill is entirely within Ohio, while a portion of the property in Indiana has been used as a soil borrow area.

Permit: Authorized Maximum Daily Waste Receipt (AMDWR)  
Decrease

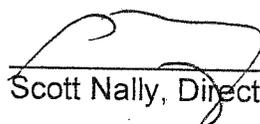
Issuance Date: November 10, 2011

Effective Date: November 10, 2011

The above named entity is hereby issued a permit approval (permit-to-install) 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

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.

  
\_\_\_\_\_  
Scott Nally, Director

By:  Date: 11-10-11

OHIO E.P.A.  
NOV 10 2011  
ENTERED DIRECTOR'S JOURNAL

### PERMIT SUMMARY

On March 17, 1998, Ohio EPA issued a permit (PTI Number 05-7097) to Bond Road Site, Inc. (Owner) for the Bond Road Landfill (Facility) in Hamilton County. That permit established an AMDWR of 4,000 tons.

On August 10, 2011, the Owner submitted an application (PTI Application Number 820233) to decrease the AMDWR to 100 tons. Based on the new AMDWR, the Facility's currently approved limits of waste placement will provide approximately 207 years of operation.

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

### PERMIT CONDITIONS

1. The Facility's AMDWR is hereby established to be 100 tons. This supersedes any previously established AMDWR for the Facility. This approval shall apply only to the decrease in the Facility's AMDWR.
2. The director, 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).
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 may be modified, or alternatively revoked and reissued, to comply with any revisions to OAC Chapter 3745-27 applicable to this municipal solid waste disposal facility.
5. The permittee shall provide for the proper maintenance and operation of the municipal solid waste disposal facility in accordance with the provisions of OAC Chapter 3745-27.
6. Nothing in this permit approval shall be construed to authorize any waiver from the requirements of any applicable federal or state laws or regulations. This permit approval 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.

7. 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.
8. This permit does not authorize the acceptance of any hazardous or infectious wastes, except for those excluded from hazardous waste or infectious waste regulation by ORC Chapter 3734.
9. Unless specifically superseded by this permit, the Facility shall comply with the requirements of all authorizing documents issued prior to this permit.

**END OF CONDITIONS**





Ohio Environmental Protection Agency  
Lazarus Government Center  
P.O. Box 1049  
Columbus, Ohio 43216-1049

# COPY

For EPA Use Only

Application or ID Number \_\_\_\_\_  
Core Place ID \_\_\_\_\_

- DAPC
- DDAGW
- DHWM
- DSW
- DSIWM
- RTK
- DEFA
- TRI
- \_\_\_\_\_

GENERAL COVER SHEET

**PAID 820233 DSIWM PTI**

Received Date: 8-16-2011  
Check Amount: \$1,000.00  
Check Number: 535662  
Check Date: 8-5-2011  
Revenue ID: 820233

Route to:

## 1. Facility Information

Legal Name Bond Road Landfill  
Alternate Name \_\_\_\_\_  
Street Address 11425 Bond Road  
City/State/Zip West Harrison, Ohio 45030  
Location \_\_\_\_\_

**SOLID WASTE  
APPROVED**  
OHIO ENVIRONMENTAL PROTECTION AGENCY  
NOV 10 2011  
**AS EVIDENCED BY COPY OF  
LETTER OF APPROVAL  
HERETO ATTACHED**

County/Township Hamilton County, Whitewater Township  
Lat./Long./Point Description N 39° 12' 18" W 84° 48' 45"  
(Pond Discharge)

Facility Type: *(shaded areas indicate the attachment is under development)*

✓	Facility Type	Required Attachments	
X	Municipal Solid Waste Landfill	A1	B1a
	Industrial Solid Waste Landfill	A1	B1b
	Residual Solid Waste Landfill	A1	B1c
	Solid Waste Transfer Facility	A2	B2
	Scrap Tire Monofill	A3a	B3a
	Scrap Tire Monocell - Contiguous to MSW Landfill	A3b	B1a
	Scrap Tire Monocell - Contiguous to ISW Landfill	A3b	B1b
	Scrap Tire Monocell - Non-Contiguous to Landfill	A3b	B3a
	Scrap Tire Submergence Facility	A3a	B3b

COPY

	Class I Scrap Tire Storage Facility	A4	B4
	Class I Scrap Tire Recovery Facility	A4	B4
	Solid Waste Incinerator or Energy Recovery		
	Class I Solid Waste Composting Facility		
	Infectious Waste Treatment Facility		

## 2. Applicant Information

Applicant Name Bond Road Site, Inc. (wholly owned subsidiary of Rumpke Sanitary  
Mailing Address Landfill, Inc.)  
10795 Hughes Road  
City/State/Zip Cincinnati, Ohio 45251  
Phone Number (513) 851-0122  
Email Address larry.riddle@rumpke.com  
Billing Address Same as above  
  
City/State/Zip

## 3. Operator Information (if different from applicant)

Operator Name Same as above  
Mailing Address   
  
City/State/Zip   
Phone Number

**4. Land Owner Information (if different from applicant)**

Land Owner Name Same as applicant  
Mailing Address \_\_\_\_\_  
City/State/Zip \_\_\_\_\_  
Phone Number \_\_\_\_\_

**5. Preparer Information (if different from applicant)**

Preparer Name John R. Butler, Site Engineer  
Company Rumpke Sanitary Landfill, Inc.  
Mailing Address 10795 Hughes Road  
City/State/Zip Cincinnati, Ohio 45251  
Phone Number (513) 851-0122 extension 3152  
Email Address john.butler@rumpke.com

duplicate page as necessary to add multiple land owners or preparers





DIVISION OF SOLID AND INFECTIOUS  
WASTE MANAGEMENT  
Municipal, Industrial, and Residual Solid Waste Landfills

*The information requested by this attachment is not required by rule, however it is useful to permit reviewers and the general public.*

Multimedia Information, check all that apply:

**Division of Surface Water**

Current NPDES Permit

Permit Number 1II00075\*DD

Date Issued 12/19/2008

Leachate discharge to public sewer	Current	<input type="checkbox"/>	Proposed	<input type="checkbox"/>	
On-Site Leachate Treatment	Current	<input type="checkbox"/>	Proposed	<input type="checkbox"/>	
On-site Sanitary Treatment	Current	<input type="checkbox"/>	Proposed	<input type="checkbox"/>	
Waste Solidification	Current	<input type="checkbox"/>	Proposed	<input type="checkbox"/>	
Sedimentation Basin	Current	<input checked="" type="checkbox"/>	Proposed	<input type="checkbox"/>	
Holding Tank	Current	<input type="checkbox"/>	Proposed	<input type="checkbox"/>	
Stream Relocation	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	
Spillway Relocation	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	
New Outfall	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	
Headwater Removal	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	
401 Certification					
Required	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	
Submitted	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____
Issued	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____
404 Permit					
Required	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	
Submitted	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____
Issued	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____
Isolated Wetland Permit					
Required	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____
Submitted	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____
Issued	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____

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**Division of Air Pollution Control**

Current DAPC Permit

Permit Number P0100281 (Title V)

Date Issued 11/23/2010

New/Revised DAPC permit application

Required	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	
Submitted	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____
Issued	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	Date _____
Active Gas Extraction	Current	<input type="checkbox"/>	Proposed	<input type="checkbox"/>	
Flare	Current	<input type="checkbox"/>	Proposed	<input type="checkbox"/>	
Rail Spur	Current	<input type="checkbox"/>	Proposed	<input type="checkbox"/>	
Additional Storage Piles	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	
Additional Haul Roads	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	
Waste Relocation	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	

Type of Daily Cover On site soils

Dust Suppressant Used Water

**Other Permits**

Permit	Local, State, or Federal Office	Date Applied for

**Other Licenses**

License	Local, State, or Federal Office	Date Applied for

**Other Plan Approvals**

Plan	Local, State, or Federal Office	Date Applied for

**Other Authorizations**

Authorization	Local, State, or Federal Office	Date Applied for

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**Additional Information**

1. Please indicate the reason for this application (check all that apply).

<input type="checkbox"/>	New Facility	<input type="checkbox"/>	Design Modification
<input type="checkbox"/>	Lateral Expansion	<input type="checkbox"/>	Call-In, ORC 3734.05(A)(5)
<input type="checkbox"/>	Vertical Expansion	<input type="checkbox"/>	Operational Modification
<input checked="" type="checkbox"/>	AMDWR Change	<input type="checkbox"/>	Call-In, ORC 3734.05(A)(3) or (4)

2. If the facility is a residual waste landfill, please indicate the proposed classification of the landfill.

Class I     
  Class II     
  Class III     
  Class IV

3. Please identify the licensing authority (Ohio EPA or local health department, if approved).

Licensing Authority: Ohio EPA, Hamilton County General Health District

4. Please state the name of the uppermost aquifer system below the limits of waste and the minimum distance between the uppermost aquifer system and the bottom of the liner system. (If there is more than one, then list all of them.)

Name of Aquifer System	Distance from liner to Aquifer System

5. Please state the anticipated date and the location of the applicants meeting required by Ohio Revised Code 3734.05.

Location: Not required for permit modification

Anticipated Date: \_\_\_\_\_

**Applicant’s Meeting: Requirements and Ohio EPA Recommendations**

The applicant is required to hold a public meeting no later than 35 days after submitting certain applications. See ORC 3734.05(A)(2)(d) for public meeting requirements.

At least 30 days before the public meeting, the applicant must publish notice of the meeting in all newspapers of general circulation published in the county. For information on newspapers of general circulation, contact Ohio EPA’s Public Interest Center at (614) 644-2160.

The Agency recommends that the applicant contact each newspaper to ensure the legal notice is published in all newspapers in time to comply with the required deadlines.

No later than 5 days after the notice is published, the applicant must send a copy of the notice(s), with the date(s) published, by certified mail to the director of Ohio EPA.

The notice must also be sent by certified mail to the legislative authority and the chief executive officer of each municipal corporation, and the legislative authority of each township and each county in which the facility is or is proposed to be located.

No later than 30 days after the public meeting, the applicant must provide the director of Ohio EPA with a copy of the full meeting transcript; copies of any exhibits, displays or other materials presented at the meeting; and the original copy of any written comments submitted at the meeting.

The meeting shall include:

- \* description of the permit application process by an Ohio EPA employee,
- \* outline of the proposal in the permit application by the applicant,
- \* response by the applicant to comments and questions raised during the meeting,
- \* an opportunity for citizens to submit written or oral comments regarding the application.

In addition, the Agency recommends that the applicant:

- \* arrange for any necessary audio/visual equipment,
- \* provide DSIWM’s fact sheet regarding the permit to install process,
- \* prepare and provide fact sheets about the facility,
- \* provide registration sheets for a record of attendance and mailing list,
- \* establish an information repository in a library near the facility.

Applicants are responsible for all costs of their public meeting except for Ohio EPA personnel costs.

6. Please list all variances and exemptions, pursuant to OAC 3745-27-03, requested in the permit application:

Variance/Exemption: Not applicable

Variance/Exemption: \_\_\_\_\_

Variance/Exemption: \_\_\_\_\_

Variance/Exemption: \_\_\_\_\_

7. Please list all alternatives, where allowed by rule, requested in the permit application:

Alternative: Not applicable

Alternative: \_\_\_\_\_

Alternative: \_\_\_\_\_

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Alternative: \_\_\_\_\_

8. Please state the acreage of the property where the facility will be located, and how much of this property is owned, leased, and not currently owned or leased, by the applicant.

Total Facility Area (acres)

Total Area Owned (acres)

Total Area Leased (acres)

Total Other (acres) Explain: \_\_\_\_\_

9. Please state the acreage of the facility within the limits of solid waste placement, and how many acres were previously approved, currently filled, and proposed to be filled as part of this application.

Total Area Within the Limits of Waste Placement (acres)

Area Previously Approved (acres)

Area Currently Filled (acres)

New Area Added (or Subtracted) by this Permit (acres)

10. Please state the volume of the landfill in cubic yards, and how much of this volume is previously approved, currently filled, and proposed as part of this application.

Total Volume (cubic yards)

Volume Previously Approved (cubic yards)

Volume Currently Filled (cubic yards)

New Volume Proposed by this Permit (cubic yards) This figure should be the same used to calculate the permit fee as per ORC 3745.11(Q)

11. Please state the authorized maximum daily waste receipt (AMDWR) requested for this facility and the anticipated daily waste receipt.

AMDWR (tons)

Anticipated Daily Waste Receipt (tons)

Current AMDWR (tons), if any

12. If the facility is a proposed new site, expansion, or AMDWR change, please state the life expectancy of the facility based on the total volume using the AMDWR and anticipated daily waste receipt if this application is approved.

Life Expectancy Using the AMDWR (years)

Life Expectancy Using the Anticipated Daily Waste Receipt (years)

See 2011 Annual Report - New AMDWR)

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## 12. DISPOSAL CAPACITY

NOTE: The information for this section is required in accordance with OAC 3745-27-19(M), 3745-29-19(M), and 3745-30-14(M). Please do not use unapproved pending PTI applications and draft PTIs as sources of information for this section. Facilities are encouraged to contact their Ohio EPA district office for assistance with completing this section. Note: Capacities should be listed in cubic yards (Yds<sup>3</sup>).

**Table 12– Remaining Disposal Capacity, Capacity Used, and Daily Use Characteristics**

<b>1. New Permitted Capacity in 2010</b> (see footnote 1)				
Was any additional capacity <u>permitted</u> at the facility during 2010? <sup>1</sup>				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, amount of new capacity permitted in 2010:		Yds <sup>3</sup>
<b>2. Remaining Capacity</b>				
a. Enter total remaining gross permitted airspace – as of Dec 31, 2010 (This should include the amount from 1 above.)			7,225,942*	Yds <sup>3</sup>
b. Remaining constructed capacity: Enter the amount as of Dec 31, 2010. (This figure should be based upon the practical volume available in all constructed cells that were completed and certified <i>on or before December 31, 2010</i> )			608,466*	Yds <sup>3</sup>
c. Projected additional constructed capacity – enter any amount that will result from construction activities that will be performed in and certified in 2011 only. (This figure should <u>not</u> include the volume shown for 2.b above.)				Yds <sup>3</sup>
<b>3. Remaining Life</b> (in years) - Enter the total remaining life of the facility based upon the total remaining gross airspace in 2.a. above, and rates of waste receipts listed below:				
a. Authorized Maximum Daily Waste Receipts (AMDWR)		Annual receipts at AMDWR 28600 tons/yr		
AMDWR: 100 tons/day		Remaining Life 207.0	years at AMDWR	
b. Actual Recent Waste Receipts		Actual 2010 receipts 27.07 tons		
Days operated during year <sup>2</sup> : 2	Avg. Tons/day: 13.5	Remaining Life 218,887	years at 2010 rate of receipts	
<b>4. Remaining Tons for Waste Placement</b>				
The total amount of waste (in tons) which can be disposed in your facility based upon the total remaining gross airspace (from 2.a above) <u>minus</u> cover material volume:			5,332,744	Tons
<b>5. Gross Airspace Used During 2010</b>				
Enter the gross airspace or volume used in 2010 in the space to the right. <sup>3</sup>			22.2*	Yds <sup>3</sup>
<b>6. Primary Contact for capacity issues</b>				
If the primary contact for questions concerning capacity issues is different than the person completing this report, then please provide the appropriate contact information below.				

1. Use only information from approved PTI's and Findings and Orders. Be sure to account for capacity approved during the report year when calculating

gross airspace remaining.

2. You may use half-days in the calculation. Example calculation:  $(5.5 \text{ days / week}) \times (52 \text{ weeks / year}) - 3 \text{ Holidays} = 283 \text{ days}$
3. If the number of days between flyovers/surveys differs significantly from 365, be sure to apply a correction factor that will adjust the gross airspace used for a 365 day year.

**Table 12– Remaining Capacity (continued)**

**7. Capacity Calculations** – Please show the calculations used to generate the numbers in categories 3, 4 and 5 above. In addition, identify the values for all variables indicated, as applicable, and any other relevant variables used in the calculations. You may also attach additional sheets of paper as necessary.

Calculations attached on a separate sheet.

Compaction Ratio(s): 0.82 (ton/cu yd) historical

Days between overflights or surveys: only 2 days of receipts, surveyed after receipts

Additional Variables: \*Settlement of 344 yards

Calculations:

3A)  $100 \text{ tons/day} \times 5.5 \text{ days/week} \times 52 \text{ weeks/year} = 28600 \text{ tons/year}$

3B)

$7,225,542 \text{ cubic yard} \times 0.82 \text{ tons/cubic yard} = 5,925,272 \text{ tons}$

$5,925,272 \text{ tons} / 28,600 \text{ tons/yr} = 207 \text{ years}$

$5,925,272 \text{ tons} / 27.07 \text{ tons} = 218,887 \text{ years}$

4)  $5,925,272 \times .9 \text{ (Daily Cover)} = 5,332,744 \text{ tons}$

5)  $27.07 \text{ tons} \times 0.82 = 22.2 \text{ cubic yards}$

**12(B). Permits pending or intended and/or other factors that may affect future facility capacity and/or circumstances that resulted in significant changes in waste receipts in 2010:**

Why do we ask this? The answer is that Ohio EPA is required to monitor solid waste disposal capacity in Ohio. Data provided in this section is intended to assist that endeavor. Please assist us by reporting information described below. You may also use this section to communicate any other factors that you feel may affect this facility's future disposal capacity, including those factors outside of the control of those who own operate and/or manage the facility.

If there are any pending permits for this facility, or if you applied for any new permits for this facility in 2010 or if you intend to apply for any new permits in 2011, please briefly explain below. This would include any permits that would result in changes in disposal capacity, changes in AMDWR, or changes in the way waste is received at the facility (e.g. new rail infrastructure, ownership changes, contract expiration, etc.) that may affect future capacity. You may also use this section to communicate circumstances that resulted in a significant increase or decrease in waste receipts in 2010.

**SOLID WASTE  
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OHIO ENVIRONMENTAL PROTECTION AGENCY  
NOV 10 2011  
AS EVIDENCED BY COPY OF  
LETTER OF APPROVAL  
HERETO ATTACHED

**Section IV – Cost Estimates**

**Attachment A1**

**Closure Cost Estimate.**

	Total Closure Cost Estimate
	Worst Case Acreage

Description of when worst case occurs: \_\_\_\_\_

CY = Cubic Yards      SF = Square Foot      LF = Linear Foot      EA = Each      LS = Lump Sum

<b>I Ground Water Monitoring Wells</b>				
	Item Description	Quantity	Unit Cost	Item Cost
a	Ground Water Monitoring Well Installation and Development (EA)		\$	\$
b	Ground Water Monitoring Well Repair and Replacement (EA)		\$	\$
c			\$	\$
<i>Subtotal for Ground Water Monitoring Wells</i>				\$

<b>II Fill and Grade (for premature closure)</b>				
	Item Description	Quantity	Unit Cost	Item Cost
a	Mobilization / Demobilization (LS)			\$
b	Soil (CY**)		\$	\$
c	Excavation (CY)		\$	\$
d	Placement/ Spreading (CY)		\$	\$
e	Compaction (CY)		\$	\$
f	Transportation cost of materials (CY) (transport radius: _____)		\$	\$
g	Materials Testing (LS) (field and lab)			\$
h	Surveying (LS)			\$
i	QA/QC (LS)			\$
j			\$	\$
<i>Subtotal for Slope and Fill</i>				\$

\*\* Note that the actual surface area may be significantly larger than the plan area depicted in the authorizing document. In addition, the volume of soil, once compacted, may be different than the volume excavated.

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III Cap System Components				
	Item Description**	Quantity	Unit Cost	Item Cost
a	Gas Collection Layer (CY or SF)		\$	\$
b	Sub-Base Layer (CY)		\$	\$
c	Engineered Barrier Layer (CY)		\$	\$
d	Geosynthetic Clay Liner (SF)		\$	\$
e	Flexible Membrane Liner (FML) (SF)		\$	\$
f	Drainage Layer (CY or SF)		\$	\$
g	Freeze Thaw Protection Layer (CY)		\$	\$
h	Vegetative Layer (CY)		\$	\$
i	Surface Water Control System (on the cap) (LS)			\$
j	Mobilization/Demobilization for Earthwork (LS)			\$
k	Mobilization/Demobilization for Geosynthetics (LS)			\$
l	Temporary Erosion Control: Silt Fences (LF) Straw Bales (EA) Other Erosion Control		\$ \$ \$	\$ \$ \$
m			\$	\$
<i>Subtotal Cap System Components</i>				\$

\*\* Note that the actual surface area may be significantly larger than the plan area depicted in the authorizing document. In addition, the volume of soil once compacted, may be different than the volume excavated.

IV Permanent Surface Water Structures (outside limits of waste placement)		
	Item Description	Item Cost
a	Surface Water Control Structures	\$
b	Surface Water Conveyance Structures	\$
c	Mobilization/Demobilization	\$
d		\$
<i>Subtotal Permanent Surface Water Structures</i>		\$

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**Section IV – Cost Estimates**

**Attachment A1**

<b>V Explosive Gas Extraction and/or Control System</b>				
	Item Description	Quantity	Unit Cost	Item Cost
a	Extraction Well Installation, Repair, and Replacement (EA)		\$	\$
b	Collection System Installation, Repair, and Replacement (LF)		\$	\$
c	Flare System Installation, Repair, and Replacement (EA)		\$	\$
d	Establishment of Utilities and Supplemental Fuel System (LS)			\$
e	Special Controls and Conveyance Structures		\$	\$
f	Mobilization/Demobilization (LS)			\$
g	QA/QC & Certification (LS)			\$
h			\$	\$
<i>Subtotal Explosive Gas Extraction and/or Control System</i>				\$

<b>VI Explosive Gas Monitoring System</b>		
	Item Description	Item Cost
a	Gas Monitoring Probe Installation, Repair, and Replacement	\$
b	Alarm Installation and Replacement	\$
c		\$
<i>Subtotal Explosive Gas Monitoring System</i>		\$

<b>VII Access Control</b>				
	Item Description	Quantity	Unit Cost	Item Cost
a	Fencing (LF)		\$	\$
b	Gate (EA)		\$	\$
c	Sign (EA)		\$	\$
d			\$	\$
<i>Subtotal Access Control</i>				\$

Initial

Revised \_\_\_\_\_ date

**Section IV – Cost Estimates**

**Attachment A1**

<b>VIII</b>	<b>Engineering (QA/QC)</b>			
	Item Description	Quantity	Unit Cost	Item Cost
a	Revisions to Closure Plan Report (LS)			\$
b	Certified engineering designs and calculations for construction (LS)			\$
c	Surveying (Acre)		\$	\$
d	Benchmark Installation (EA)		\$	\$
e	Benchmark Survey (EA)		\$	\$
f			\$	\$
<i>Subtotal Engineering</i>				\$

<b>IX</b>	<b>Other Costs</b> List all other costs not included in other sections			
	Item Description	Quantity	Unit Cost	Item Cost
a	Environmental Monitoring (LS)			\$
b	Utilities (LS)			\$
c	Restoration of Borrow Areas (Acre)		\$	\$
d			\$	\$
<i>Subtotal Site Specific Costs</i>				\$

Initial

Revised \_\_\_\_\_ date

**Section IV – Cost Estimates**

**Attachment A1**

Post-Closure Care Cost Estimate

Total Post-Closure Cost Estimate

CY = Cubic Yards      SF = Square Foot      LF = Linear Foot      EA = Each      LS = Lump Sum

<b>I Inspection and Reporting</b>				
	Item Description	Annual Quantity	Unit Cost	Annual Cost
a	Ground Water Monitoring Report (EA)		\$	\$
b	Explosive Gas Monitoring Quarterly Report (EA)	4	\$	\$
c	Explosive Gas Monitoring Semi-Annual Report (EA)	2	\$	\$
d	Inspection (EA)	4	\$	\$
e	Inspection Summary (EA)	4	\$	\$
f	Annual Report (EA)	1	\$	\$
g	Other Reporting (Orders, Authorizing Documents) (EA)		\$	\$
h			\$	\$
Total Annual Cost				\$
Total Annual Cost multiplied by years of post-closure care				\$
	Item Description			Item Cost
i	Post-Closure Certification			\$
<i>Subtotal for Inspection and Reporting</i>				\$

<b>II Ground Water Monitoring</b>		
	Item Description	Annual Cost
a	Trace Metals	\$
b	Volatile and Semivolatile Organic Compounds	\$
c	General Ground Water Quality Parameters	\$
d	Alternate Parameter List (site specific)	\$
e	Assessment Monitoring Parameters	\$
f	Background Sampling (for new wells only)	\$
g	Collection and Transportation of Samples	\$
h		\$
<i>Subtotal for Ground Water Monitoring (total annual cost multiplied by years of post-closure care)</i>		\$

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<b>III Explosive Gas Migration Monitoring</b>				
	Item Description	Annual Quantity	Unit Cost	Annual Cost
a	Quarterly (Years 1-5) (per Sample Event)	4	\$	\$
b	Semi-Annual (Years 6-30) (per Sample Event)	2	\$	\$
c	Alternate Frequency (per Sample Event)		\$	\$
d			\$	\$
Total Annual Cost				\$
<i>Subtotal for Gas Monitoring</i> (for all years of post-closure care)				\$

<b>IV Leachate Monitoring</b>		
	Item Description	Annual Cost
a	Annual Grab Sample 3745-27-14(A)(6)(b)	\$
b	Cost of Testing for Special Constituents	\$
c	Collection and Transportation of Samples	\$
d		\$
<i>Subtotal for Leachate Monitoring</i> (total annual cost multiplied by years of post-closure care)		\$

<b>V Surface Water Monitoring</b>		
	Item Description	Annual Cost
a	Sampling per NPDES Permit, Closure Plan, or Other Authorizing Document	\$
b	Collection and Transportation of Samples	\$
c		\$
<i>Subtotal Surface Water Monitoring</i> (total annual cost multiplied by years of post-closure care)		\$

Initial

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VI	Operation and Maintenance of Leachate Collection and Treatment System			
	Item Description	Annual Quantity	Unit Cost	Annual Cost
a	Inspection & Flushing of Collection Pipes (LF)		\$	\$
b	Inspection & Cleaning of Sumps and Traps (EA)		\$	\$
c	Replacement of Sump pumps, piping, and instrumentation (EA)		\$	\$
d	Inspection & Cleaning of lift station(s), manhole(s), and conveyance structures (EA)		\$	\$
e	Replacement of conveyance structure pumps, piping, and instrumentation (EA)		\$	\$
f	Tanks (Spill containment repair, sealing, tank cleaning, and inspection) (EA)		\$	\$
g	Transportation Cost of Sludge Removal (CY) transportation radius: _____		\$	\$
h	Disposal Cost for Sludge Removal (CY) disposal site: _____		\$	\$
i	Characterization Cost of Sludge Removal (CY)		\$	\$
j	Off-site Disposal of Leachate (LS)			\$
k	On-site Treatment and/or Pretreatment of Leachate (LS)			\$
l			\$	\$
Subtotal Operation and Maintenance of Leachate Collection and Treatment Systems (total annual cost multiplied by years of post-closure care)				\$

VII	Operation and Maintenance of Ground Water Monitoring System		
	Item Description	Unit Cost	Annual Average Cost
a	Routine Maintenance (inspection, cleaning, repairing) (LS)		\$
b	Repair & Replacement of Monitoring Wells (LS)		\$
c		\$	\$
Total Annual Cost			\$
Total Annual Cost multiplied by years of post-closure care			\$
	Item Description	Unit Cost	Item Cost
d	Abandonment at end of post-closure care period (number of wells: _____)	\$	\$
Subtotal for Operations and Maintenance of Ground Water Monitoring System			\$

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**Section IV – Cost Estimates**

**Attachment A1**

<b>VIII Operation and Maintenance of Explosive Gas Extraction and/or Control System</b>			
	Item Description	Unit Cost	Annual Average Cost
a	Extraction Well Repair & Replacement (LS)		\$
b	Collection System Repair & Replacement (LS)		\$
c	Flare System Repair & Replacement (LS)		\$
d	Air Emissions Monitoring [NSPS and OAC 3745-76] (number of years to be monitored: _____)	\$	\$
e	Special Control & Conveyance Structures (LS)		\$
f		\$	\$
Total Annual Cost			\$
Total Annual Cost multiplied by years of post-closure care			\$
	Item Description	Unit Cost	Item Cost
g	Well Abandonment at end of post-closure care period (number of wells: _____)	\$	\$
h	System Abandonment at end of post-closure care period (LS)		\$
<i>Subtotal for Operation &amp; Maintenance of Explosive Gas Extraction and/or Control System</i>			\$

<b>IX Operation and Maintenance of Explosive Gas Monitoring System</b>			
	Item Description	Unit Cost	Annual Average Cost
a	Inspection, Repair & Replacement of Monitoring Probes (LS)		\$
b	Inspection, Repair & Replacement of Monitoring Alarms (LS)		\$
c			\$
Total Annual Cost			\$
Total Annual Cost multiplied by years of post-closure care			\$
	Item Description	Unit Cost	Item Cost
d	Abandonment at end of post-closure care period (number of probes: _____)	\$	\$
<i>Subtotal for Operations and Maintenance of Gas Monitoring System</i>			\$

Initial

Revised \_\_\_\_\_ date

**Section IV – Cost Estimates**

**Attachment A1**

<b>X Utilities for Operation</b>					
	Item Description	Supplier	Annual Quantity	Unit Cost	Annual Cost
a	Electricity			\$	\$
b	Natural Gas			\$	\$
c	Propane			\$	\$
d				\$	\$
<i>Subtotal for Utilities for Operation (total annual cost multiplied by years of post-closure care)</i>					\$

<b>XI Maintenance of Cover System</b>				
	Item Description	Annual Quantity	Unit Cost	Annual Cost
a	Mowing, fertilizing, removal of trees, mulching, and seeding (EA)		\$	\$
b	Cap Repair (leachate outbreak repair, erosion rill repair, differential settlement repair)		\$	\$
c	Maintain Grade & Erosion Repair <small>Minimum based on annual erosion rate</small>		\$	\$
d	Rodent Control (Acre)		\$	\$
e			\$	\$
<i>Subtotal for Maintenance of Cover System (total annual cost multiplied by years of post-closure care)</i>				\$

<b>XII Operation and Maintenance of Surface Water Management System</b>				
	Item Description	Annual Quantity	Unit Cost	Annual Cost
a	Inspection, Cleaning & Repair of Ditches (LF)		\$	
b	Inspection, Cleaning & Repair of Conveyance Structure (EA)		\$	
c	Inspection, Cleaning & Repair of Sedimentation Pond (EA)		\$	
d	Inspection, Cleaning & Repair of Spillway/Outlet (EA)		\$	
e			\$	
<i>Subtotal for Operation and Maintenance of Surface Water Management System (total annual cost multiplied by years of post-closure care)</i>				\$

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XIII	Operation and Maintenance of Access Control Structures			
	Item Description	Annual Quantity	Unit Cost	Annual Cost
a	Inspection, Repair & Replacement of Fence (LF)		\$	\$
b	Inspection, Repair & Replacement of Gate (EA)		\$	\$
c	Inspection, Repair & Replacement of Sign (EA)		\$	\$
d	Maintenance of Roadways (LF)		\$	\$
e			\$	\$
<i>Subtotal for Operation and Maintenance of Access Control Structures (total annual cost multiplied by years of post-closure care)</i>				\$

Initial

Revised \_\_\_\_\_ date

Bond Road Site Inc,  
 11425 Bond Road  
 West Harrison, Ohio 45030

Facility ID No.: 31-00-02

Prepared:

6/29/2011

POST CLOSURE COST ESTIMATE		
Item	Years 1-10	Year 10-30
Land Surface Care	\$37,311.14	\$4,069.68
Site Monitoring	\$79,880.03	\$8,085.19
Leachate Collection System	\$49,906.66	\$33,814.80
<b>TOTALS</b>	<b>\$1,670,978.30</b>	<b>\$919,393.40</b>
30 year Total Cost	<b>\$2,590,371.70</b>	
2000 Estimate	1.014	2,626,636.90
2001 Estimate	1.02	2,716,678.01
2002 Estimate	2.1	2,773,728.25
2003 Estimate	1.1	2,804,239.26
2004 Estimate	1.6	2,849,107.09
2005 Estimate	2.1	2,908,938.34
2006 Estimate	2.7	2,987,479.67
2007 Estimate	2.9	3,074,116.58
2008 Estimate	2.66	3,155,888.08
2009 Estimate	2.1	3,222,161.73
2010 Estimate	1.18	3,260,183.24
2011 Estimate	1.09	3,295,719.24

CLOSURE COST ESTIMATE				
<b>Total Constructed Acres</b>			<b>20.3</b>	
ITEM	Units	Price	Quantity	Total Cost
30" Protective Layer	cu yds	2.85	81860	233300.2875
Geocomposite	sq. yds	0.32	884268	282965.76
40 Mil tex. GeoMembrane	sq. yds	0.46	884268	406763.28
18" Clay Cap	cu yds	5.7	49116	279960.345
Landscaping	acres	1000	20.3	19100
<b>Total</b>				<b>\$1,222,090</b>
2000 inflation			1.014	\$1,239,199
2001 inflation			1.02	\$1,263,983
2002 inflation			1.021	\$1,290,527
2003 inflation			1.011	\$1,304,722
2004 inflation			1.016	\$1,325,598
2005 inflation			1.021	\$1,353,435
2006 inflation			1.027	\$1,389,978
2007 inflation			1.029	\$1,430,288
2008 inflation			1.0266	\$1,468,333
2009 inflation			1.021	\$1,499,168
2010 inflation			1.18	\$1,769,019
2011 inflation			1.09	\$1,928,230
<b>Grand Total</b>				<b>\$5,223,949.41</b>

TREASURER STATE OF OHIO		RUMPKE OF OHIO, INC.		8/05/2011	
INVOICE NO.	INVOICE DATE	DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
FEEFORMODIFICATION	8/02/2011	USD	1,000.00	.00	1,000.00
CHECK #: 535662			TOTALS:		
			1,000.00	.00	1,000.00



CONSOLIDATED COS ACCTS PAY  
 10795 Hughes Road  
 Cincinnati, OH 45251

JP MORGAN CHASE, NA  
 COLUMBUS, OH

CHECK DATE	CHECK NO.
8/05/2011	535662
PAY THIS AMOUNT	

One Thousand and 00/100 Dollars

\$\*\*\*1,000.00

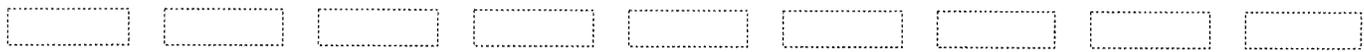
TO THE ORDER OF  
 TREASURER STATE OF OHIO  
 OPEA LAZARUS GOV CENTER  
 50 WEST TOWN ST SUITE 700  
 COLUMBUS OH 43215

RUMPKE

*Phil E. Wickham*  
 AUTHORIZED SIGNATURE Treasurer

\*\*\* VOID AFTER 180 DAYS \*\*\*

⑈ 535662⑈ ⑆044115443⑆ ⑆36995144⑈



\*See Reverse Side For Easy Opening Instructions\*



10795 Hughes Road  
 Cincinnati, OH 45251

TREASURER STATE OF OHIO  
 OPEA LAZARUS GOV CENTER  
 50 WEST TOWN ST SUITE 700  
 COLUMBUS OH 43215

**SOLID WASTE  
APPROVED**  
OHIO ENVIRONMENTAL PROTECTION AGENCY  
NOV 10 2011  
AS EVIDENCED BY COPY OF  
LETTER OF APPROVAL  
HERETO ATTACHED