

Application No. OH0076775

Issue Date: October 18, 2007

Effective Date: December 1, 2007

Expiration Date: November 30, 2012

Ohio Environmental Protection Agency
Authorization to Discharge Under the
National Pollutant Discharge Elimination System

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereinafter referred to as the "Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Section 6111),

Crossridge, Incorporated

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge pollutants from the Crossridge Landfill located southwest of the intersection of County Road 26 and Township Road 174, Cross Creek Township, Ohio, Jefferson County and discharging to unnamed tributaries to Dry Run in accordance with the conditions specified in Parts I, II, and III of this permit.

This permit is conditioned upon payment of applicable fees as required by Section 3745.11 of the Ohio Revised Code.

This permit and the authorization to discharge shall expire at midnight on the expiration date shown above. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

Chris Korleski
Director

Total Pages: 21

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 0IN00106001. See Part II, OTHER REQUIREMENTS, for the locations of both the permitted outfall and the location to sample/monitor the effluent.

Table - Final Outfall - 001 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months		
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00045 - Total Precipitation - Inches	-	-	-	-	-	-	-	1/Day	24hr Total	All
00056 - Flow Rate - GPD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All
00095 - Specific Conductance at 25 Degrees C - Umho/cm	-	-	-	-	-	-	-	1/Month	Grab	All
00310 - Biochemical Oxygen Demand, 5 Day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	45	-	-	30	-	-	-	1/Month	Grab	All
00545 - Residue, Settleable (Volume) - mL/L	0.5	-	-	-	-	-	-	1/Month	Grab	All
00550 - Oil and Grease, Total - mg/l	10	-	-	-	-	-	-	1/2 months	Grab	Bimonthly-Od
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
00900 - Hardness, Total (CaCO3) - mg/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
00980 - Iron, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
01113 - Cadmium, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
01119 - Copper, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
01330 - Odor, Severity - Units	-	-	-	-	-	-	-	1/Week	Estimate	All
01350 - Turbidity, Severity - Units	-	-	-	-	-	-	-	1/Week	Estimate	All

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
34010 - Toluene - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
34030 - Benzene - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
34371 - Ethylbenzene - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	1/Year	Grab	September
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	1/Year	Grab	September
70301 - Solids, Dissolved-Sum of - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All

Notes for station 0IN00106001:

Leachate shall not be discharged to or from the sedimentation pond.

Sampling shall be performed when discharging. If no discharge occurs during the entire month, state this in the remarks section and leave the data area blank (signature still required).

Settleable solids limits apply to discharges that are a result of a precipitation event with a probable reoccurrence interval less than a ten-year, 24-hour event (see definition in Part II, Item I). For discharges resulting from precipitation events greater than or equal to a ten-year, 24-hour event, settleable solids shall be monitored only - the limits do not apply. Settleable solids shall be monitored during both dry and wet weather conditions, no matter the size of the precipitation event.

See Part II, Items B, F and J for additional monitoring requirement information.

Samples taken in compliance with monitoring requirements specified above shall be taken at Sampling Stations described in Part II, Other Requirements.

The permittee shall monitor oil & grease during odd numbered months (i.e., January, March, May, July, September, November).

2/year sampling shall be in the months of June and December.

1/year sampling shall be in the month of September.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 0IN00106002. See Part II, OTHER REQUIREMENTS, for the locations of both the permitted outfall and the location to sample/monitor the effluent.

Table - Final Outfall - 002 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months		
	Maximum	Minimum	Weekly	Monthly	Daily				Weekly	Monthly
00045 - Total Precipitation - Inches	-	-	-	-	-	-	-	1/Day	24hr Total	All
00056 - Flow Rate - GPD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All
00095 - Specific Conductance at 25 Degrees C - Umho/cm	-	-	-	-	-	-	-	1/Month	Grab	All
00310 - Biochemical Oxygen Demand, 5 Day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	45	-	-	30	-	-	-	1/Month	Grab	All
00545 - Residue, Settleable (Volume) - mL/L	0.5	-	-	-	-	-	-	1/Month	Grab	All
00550 - Oil and Grease, Total - mg/l	10	-	-	-	-	-	-	1/2 months	Grab	Bimonthly-Od
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
00665 - Phosphorus, Total (P) - mg/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
00900 - Hardness, Total (CaCO3) - mg/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
00980 - Iron, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
01113 - Cadmium, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
01119 - Copper, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
01330 - Odor, Severity - Units	-	-	-	-	-	-	-	1/Week	Estimate	All
01350 - Turbidity, Severity - Units	-	-	-	-	-	-	-	1/Week	Estimate	All

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
34010 - Toluene - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
34030 - Benzene - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	1/Year	Grab	September
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	1/Year	Grab	Yearly
70301 - Solids, Dissolved-Sum of - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
81551 - Xylene, Total - ug/l	-	-	-	-	-	-	-	2/Year	Grab	Semi-annual

Notes for station 0IN00106002:

Leachate shall not be discharged to or from the sedimentation pond.

Sampling shall be performed when discharging. If no discharge occurs during the entire month, state this in the remarks section and leave the data area blank (signature still required).

Settleable solids limits apply to discharges that are a result of a precipitation event with a probable reoccurrence interval less than a ten-year, 24-hour event (see definition in Part II, Item I). For discharges resulting from precipitation events greater than or equal to a ten-year, 24-hour event, settleable solids shall be monitored only - the limits do not apply. Settleable solids shall be monitored during both dry and wet weather conditions, no matter the size of the precipitation event.

See Part II, Items B, F and J for additional monitoring requirement information.

Samples taken in compliance with monitoring requirements specified above shall be taken at Sampling Stations described in Part II, Other Requirements.

The permittee shall monitor oil & grease during odd numbered months (i.e., January, March, May, July, September, November).

2/year sampling shall be in the months of June and December.

1/year sampling shall be in the month of September.

Part I, B. - UPSTREAM MONITORING REQUIREMENTS

1. Upstream Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number <STATION CODE>801, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for the location to sample the stream.

Table - Upstream Monitoring - 801 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
61432 - 48-Hr. Acute Toxicity Ceriodaphnia dubia - % Affected	-	-	-	-	-	-	-	1/Year	Grab	September
61435 - 96-Hr. Acute Toxicity Pimephales promela - % Affected	-	-	-	-	-	-	-	1/Year	Grab	September

Part I, B. - UPSTREAM MONITORING REQUIREMENTS

2. Upstream Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the receiving stream, upstream of the point of discharge at Station Number 0IN00106802, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location to sample the stream.

Table - Upstream Monitoring - 802 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
61432 - 48-Hr. Acute Toxicity Ceriodaphnia dubia - % Affected	-	-	-	-	-	-	-	1/Year	Grab	September
61435 - 96-Hr. Acute Toxicity Pimephales promela - % Affected	-	-	-	-	-	-	-	1/Year	Grab	September

Part II, OTHER REQUIREMENTS

Descriptions of the location of the permitted discharge outfalls and required effluent sampling/monitoring stations are as follows:

Permitted Outfall or Effluent Sampling/ Monitoring Station	Description of Permitted Outfall or Effluent Sampling/ Monitoring Location
0IN00106001 - -	Final effluent from sediment pond at the south end of the fill area prior to entering unnamed tributary to Dry Run. (Lat: 40N 20' 08"; Long: 80W 41' 27")
0IN00106002 - -	Final effluent from sediment pond in the southeast section of the fill area prior to entering unnamed tributary to Dry Run. (Lat: 40N 20' 10"; Long: 80W 41' 17")
0IN00106801 .	Immediately upstream of outfall 001 and outside any influences of the discharge from outfall 001
0IN00106802 .	Immediately upstream of outfall 002 and outside any influences of the discharge from outfall 002

B. If Severity Units are required for Turbidity, or Odor, use the following table to determine the value between 0 and 4 that is reported. The sample shall be collected in a clear container for observation.

REPORTED VALUE*	SEVERITY DESCRIPTION	TURBIDITY	ODOR
0	None	Clear	None
1	Mild		
2	Moderate	Light Solids	Some Odor
3	Serious		
4	Extreme	Heavy Solids	Strong Odor

* Interpolate between the descriptive phrases.

C. This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved.

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

D. Permit limitations may be revised in order to meet water quality standards after a stream use determination and waste load allocation are completed and approved. This permit may be modified, or alternatively, revoked and reissued, to comply with any applicable water quality effluent limitations.

E. Discharge of leachate to surface or ground water is prohibited. All leachate must be collected for proper disposal.

F. Grab samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's monitored discharge.

G. Final permit limitations based on preliminary or approved waste load allocations are subject to change based on modifications to or finalization of the allocation or report or changes to Water Quality Standards. Monitoring requirements and/or special conditions of this permit are subject to change based on regulatory or policy changes.

H. Biomonitoring Program Requirements

The permittee shall initiate an effluent biomonitoring program to determine the toxicity of the effluent from outfalls 001 and 002 .

General Requirements

All toxicity testing conducted as required by this permit shall be done in accordance with Reporting and Testing Guidance for Biomonitoring Required by the Ohio Environmental Protection Agency (hereinafter, the biomonitoring guidance"), Ohio EPA, 1998 (or current revision). The Standard Operating Procedures (SOP) or verification of SOP submittal, as described in Section 1.B. of the biomonitoring guidance, shall be submitted no later than three months after the effective date of this permit. If the laboratory performing the testing has modified its protocols, a new SOP is required.

Testing Requirements

1. Acute Bioassays

For a period of one year, the permittee shall conduct bimonthly definitive acute toxicity tests using *Ceriodaphnia dubia* and fathead minnows (*Pimephales promelas*) on effluent samples from outfalls 001 and 002 . These tests shall be conducted as specified in Section 2 of the biomonitoring guidance.

2. Testing of Ambient Water

In conjunction with the acute toxicity tests, upstream control water shall be collected at a point outside the zone of effluent and receiving water interaction at stations 0IN00106801 and 0IN00106802..

Testing of ambient waters shall be done in accordance with Sections 2 of the biomonitoring guidance.

4. Data Review

a. Reporting

Following completion of each monthly bioassay requirement, the permittee shall report results of the tests in accordance with Sections 2.H.1., 2.H.2.a., 3.H.1., and 3.H.2.a. of the biomonitoring guidance. Based on Ohio EPA's evaluation of the results, this permit may be modified to require additional biomonitoring, require a toxicity reduction evaluation, and/or contain whole effluent toxicity limits.

b. Definitions

TUa = Acute Toxicity Units = 100

I. The 10-year, 24-hour precipitation event is defined as the maximum 24-hour precipitation event with a probable reoccurrence interval of once in 10 years. This information is available in 'Weather Bureau Technical Paper No. 40', May 1961, which may be obtained from the National Climatic Center of the Environmental Data Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.