

Application No. OH0124621

Issue Date: June 6, 2007

Effective Date: July 1, 2007

Expiration Date: June 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),

Bryan White  
dba Cool Spot Convenience Store

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the Cool Spot Convenience Store wastewater treatment works located at 25780 Brimstone Road, Coolville, Ohio, Athens County and discharging to an unnamed tributary to Hocking River 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.

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Chris Korleski  
Director

Total Pages: 20

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 the following outfall: 0PR00127001. 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			
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Week	Grab	All
00056 - Flow Rate - GPD	-	-	-	-	-	-	-	1/Day	Total Estimate	All
00083 - Color, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
00300 - Dissolved Oxygen - mg/l	-	6	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	18	-	-	12	0.24	-	0.16	1/Month	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	4.5	-	-	3.0	0.060	-	0.040	1/Month	Grab	Winter
00610 - Nitrogen, Ammonia (NH3) - mg/l	1.5	-	-	1.0	0.020	-	0.013	1/Month	Grab	Summer
01330 - Odor, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
01350 - Turbidity, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
31616 - Fecal Coliform - #/100 ml	2000	-	-	1000	-	-	-	1/Month	Grab	Summer
50060 - Chlorine, Total Residual - mg/l	0.019	-	-	-	-	-	-	2/Week	Grab	Summer
80082 - CBOD 5 day - mg/l	15	-	-	10	0.20	-	0.13	1/Month	Grab	All

Notes for station 0PR00127001:

- Sampling shall be performed when discharging. If NO DISCHARGE OCCURS DURING THE ENTIRE MONTH, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). DO NOT REPORT "0" or use any other codes other than "AL". A signature is still required
- Effluent loadings based on average design flow of 0.0035 MGD.
- Total residual chlorine - See Part II, Item H.
- Sample Type - See Part II, Items E and F.
- Color, Odor and Turbidity - See Part II, Item D.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

1. Sludge Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final sludge at Station Number 0PR00127581, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location to sample and monitor the sludge.

Table - Sludge Monitoring - 581 - 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
00611 - Ammonia (NH3) In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
00627 - Nitrogen Kjeldahl, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
00668 - Phosphorus, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01003 - Arsenic, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01028 - Cadmium, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01043 - Copper, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01052 - Lead, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01068 - Nickel, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01093 - Zinc, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01148 - Selenium, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
51129 - Sludge Fee Weight - dry tons	-	-	-	-	-	-	-	1/Year	Total	Yearly
70316 - Sludge Weight - Dry Tons	-	-	-	-	-	-	-	1/Year	Total	Yearly
71921 - Mercury, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
78465 - Molybdenum In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly

NOTES for Station Number 0PR00127581:

- Total sludge weight for the 12 month period ( Jul-Dec) shall be reported in December.

- Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by land application. If no sludge is removed during the entire month, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). DO NOT REPORT "0" or use any other codes other than "AL". A signature is still required.
- Units of mg/kg are on a dry weight basis.
- Sludge weight is a calculated total for the sampling period.
- Sludge Report - See Part II, Items I, J, K and L.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

2. Sludge Monitoring. During the period beginning on on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final sludge at Station Number 0PR00127588, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sludge sampling.

Table - Sludge Monitoring - 588 - 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
70316 - Sludge Weight - Dry Tons	-	-	-	-	-	-	-	1/Year	Total	Yearly
80991 - Sludge Volume, Gallons - Gals	-	-	-	-	-	-	-	1/Year	Total	Yearly

NOTES for Station Number 0PR00127588:

- Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by hauling to another POTW. If no sludge is removed during the entire month, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). DO NOT REPORT "0" or use any other codes other than "AL". A signature is still required.
- Units of mg/kg are on a dry weight basis.
- Sludge weight is a calculated total for the sampling period.
- Sludge Report - See Part II, Items I, J, K and L.
- In the remarks section of the monthly report note the hauler and the POTW to which sludge was hauled.

Part II, Other Requirements

A. The wastewater treatment works must be under supervision of a State certified operator as required by rule 3745-7- 02 of the Ohio Administrative Code.

B. Descriptions of the location of the permitted discharge outfalls and other sampling/monitoring stations are as follows:

Permitted Outfall or Other Sampling/ Monitoring Station	Description of Permitted Outfall or Other Sampling/ Monitoring Station
OPR00127001 . . .	Final effluent sample to be collected after last treatment unit and prior to discharge to unnamed tributary of Hocking River. (Lat: 39 N 12' 52" ; Long: 81 W 48' 50")
OPR00127581	Sludge removed from plant for disposal by land application.
OPR00127588	Sludge removed from plant and disposed at another POTW.

C. All parameters, except flow, need not be monitored on days when the plant is not normally staffed (Saturdays, Sundays, and Holidays). On those days, report "AN" on the monthly report form.

D. If Severity Units are required for Turbidity, Odor, or Color, 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	COLOR
0	None	Clear	None	Colorless
1	Mild			
2	Moderate	Light Solids	Musty	Grey
3	Serious			
4	Extreme	Heavy Solids	Septic	Black

\* Interpolate between the descriptive phrases.

E. Composite samples shall be comprised of at least three grab samples proportionate in volume to the sewage flow rate at the time of sampling and collected at intervals of at least 30 minutes, but not more than 2 hours, during the period that the plant is staffed on each day for sampling. Such samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's monitored wastestream during the monitoring period.

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

G. Effluent disinfection is not directly required, however, the entity is required to meet all applicable discharge permit limits. If disinfection facilities exist, they shall be maintained in an operable condition. Any design of wastewater treatment facilities should provide for the capability to install disinfection if required at a future time. Disinfection may be required if future bacteriological studies or emergency conditions indicate the need.

H. The parameters below have had effluent limitations established that are below the Ohio EPA Quantification Level (OEPA QL) for the approved analytical procedure promulgated at 40 CFR 136. OEPA QLs may be expressed as Practical Quantification Levels (PQL) or Minimum Levels (ML).

Compliance with an effluent limit that is below the OEPA QL is determined in accordance with ORC Section 6111.13 and OAC Rule 3745-33-07(C). For maximum effluent limits, any value reported below the OEPA QL shall be considered in compliance with the effluent limit. For average effluent limits, compliance shall be determined by taking the arithmetic mean of values reported for a specified averaging period, using zero (0) for any value reported at a concentration less than the OEPA QL, and comparing that mean to the appropriate average effluent limit. An arithmetic mean that is less than or equal to the average effluent limit shall be considered in compliance with that limit.

The permittee must utilize the lowest available detection method currently approved under 40 CFR Part 136 for monitoring these parameters.

REPORTING:

All analytical results, even those below the OEPA QL (listed below), shall be reported. Analytical results are to be reported as follows:

1. Results above the QL: Report the analytical result for the parameter of concern.
2. Results above the MDL, but below the QL: Report the analytical result, even though it is below the QL.
3. Results below the MDL: Analytical results below the method detection limit shall be reported as "below detection" using the reporting code "AA".

The following table of quantification levels will be used to determine compliance with NPDES permit limits:

Parameter	PQL	ML
Chlorine, tot. res.	0.050 mg/l	--

This permit may be modified, or, alternatively, revoked and reissued, to include more stringent effluent limits or conditions if information generated as a result of the conditions of this permit indicate the presence of these pollutants in the discharge at levels above the water quality based effluent limit (WQBEL).

- I. All disposal, use, storage, or treatment of sewage sludge by the Permittee shall comply with Chapter 6111. of the Ohio Revised Code, Chapter 3745-40 of the Ohio Administrative Code, any further requirements specified in this NPDES permit, and any other actions of the Director that pertain to the disposal, use, storage, or treatment of sewage sludge by the Permittee.
- J. Sewage sludge composite samples shall consist of six to twelve grab samples collected at such times and locations, and in such fashion, as to be representative of the facilities sewage sludge.
- K. No later than January 31 of each calendar year the Permittee shall submit two (2) copies of a report summarizing the sewage sludge disposal, use, storage, or treatment activities of the Permittee during the previous calendar year. One copy of the report shall be sent to the Ohio EPA, Division of Surface Water, P.O. Box 1049, Columbus, Ohio 43216-1049, and one copy of the report shall be sent to the appropriate Ohio EPA District Office. The report shall be submitted on Ohio EPA Form 4229.
- L. Each day when sewage sludge is removed from the wastewater treatment plant for use or disposal a representative composite sample of sewage sludge shall be collected and monitored for total solids. Results of the monitoring shall be used to calculate the total Sewage Sludge Weight (Monthly Operating Report code 70316) and total Sewage Sludge Fee Weight (Monthly Operating Report code 51129) for the reporting period specified by this NPDES permit. The results of the daily monitoring, and the weight calculations, shall be maintained on site for a minimum of five years. The test methodology used shall be Part 2540 G of Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992. To convert from gallons of liquid sewage sludge to dry tons of sewage sludge:  $\text{dry tons} = \text{gallons} \times 8.34 \text{ (lbs/gallon)} \times 0.0005 \text{ (tons/lb)} \times \text{decimal fraction total solids}$ .