

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0115304

Owner: Perry County
Address: 321 North Main Perryville, MO 63755

Continuing Authority: Same as above
Address: Same as above

Facility Name: Perry County Landfill
Address: 5193 North Highway 51, Perryville, MO 63755

Legal Description: See page 2

Receiving Stream: Streile Brancy (U)
First Classified Stream and ID: McClanahan Creek (C)(01786)
USGS Basin & Sub-watershed No.: (07140105-070001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

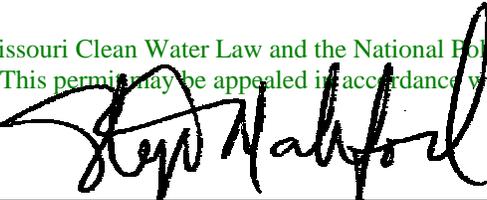
FACILITY DESCRIPTION

Outfall #001 - Landfill - SIC #4953
Stormwater outfall most representative of inactive landfill undergoing closure process.
Flow dependent upon precipitation.

Outfalls 001A through 001G
Stormwater outfalls similar to 001 - Not regularly monitored unless directed by the department.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

March 19, 2004
Effective Date



Stephen M. Mahford, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

March 18, 2009
Expiration Date
MO 780-0041 (10-93)

Gary L. Gaines, P.E., Director, Southeast Regional Office

FACILITY DESCRIPTION (continued)

Old Outfall #001 - Closed Sanitary Landfill SIC #4953

Moved to new location better representative of storm water from closed landfill.
(See Note 1)

Outfall #001 - Sanitary Landfill - SIC #4953

Stormwater runoff - Drainageway below leachate basin and upstream from Streile Branch
Actual flow dependent upon precipitation.
Legal Description: NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 29, T36N, R11E, Perry County

Outfall #001A - Sanitary Landfill - SIC #4953

Stormwater runoff - Landfill Storm Drain Discharge
Not regularly monitored unless directed by the department
Legal Description: NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 29, T36N, R11E Perry County

Outfall #001B - Sanitary Landfill - SIC #4953

Stormwater runoff - Discharge from Corrugated Metal Pipe SE of Access Road
Not regularly monitored unless directed by the department
Legal Description: SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 29, T36N, R11E Perry County

Outfall #001C - Sanitary Landfill - SIC #4953

Stormwater runoff - Landfill Storm Drain Discharge
Not regularly monitored unless directed by the department
Legal Description: NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 29, T36N, R11E Perry County

Outfall #001D - Sanitary Landfill - SIC #4953

Stormwater runoff - Landfill Storm Drain Discharge
Not regularly monitored unless directed by the department
Legal Description: NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 29, T36N, R11E Perry County

Outfall #001E - Sanitary Landfill - SIC #4953

Stormwater runoff - Landfill Storm Drain Discharge
Not regularly monitored unless directed by the department
Legal Description: NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 29, T36N, R11E Perry County

Outfall #001F - Sanitary Landfill - SIC #4953

Stormwater runoff - Landfill Storm Drain Discharge
Not regularly monitored unless directed by the department
Legal Description: NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 29, T36N, R11E Perry County

Outfall #001G - Sanitary Landfill - SIC Outfall #001F - Sanitary Landfill - SIC #4953

Stormwater runoff - Drainageway north of Landfill upstream from Strelie Br. tributary
Not regularly monitored unless directed by the department.
Legal Description: SE $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 29, T36N, R11E Perry County

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PERMIT NUMBER MO-0115304

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #001A through #001G (Note 1)</u>						
<u>Outfall #001 (Note 2)</u>						
Flow	MGD	*		*	once/quarter**	instantaneous estimate
Rainfall	inches	*		*	daily measurement	total
BETX	mg/L	0.75		0.75	once/quarter**	grab***
Biochemical Oxygen Demand ₅	mg/L	60		45	once/quarter**	grab***
Chemical Oxygen Demand	mg/L	120		90	once/quarter**	grab***
Total Suspended Solids	mg/L	80		60	once/quarter**	grab***
Settleable Solids	mL/L/hr	1.5		1.0	once/quarter**	grab***
Total Dissolved Solids	mg/L	*		*	once/quarter**	grab***
Conductivity (Specific Conductance)	micromhos /cm 25°C	*		*	once/quarter**	grab***
Chloride Plus Sulfates	mg/L	1000		*	once/quarter**	grab***
Iron, Total Recoverable	mg/L	*		*	once/quarter**	grab***
pH - Units	SU	****		****	once/quarter**	grab***

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE July 28, 2004. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Part I STANDARD CONDITIONS DATED October 1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001 (continued)</u>						
Calcium	mg/L	*		*	once/year*****	grab
Fluoride	µg/L	*		*	once/year*****	grab
Total Hardness	µg/L	*		*	once/year*****	grab
Barium, Total Recoverable	µg/L	*		*	once/year*****	grab
Boron, Total Recoverable	µg/L	*		*	once/year*****	grab
Cadmium, Total Recoverable	µg/L	*		*	once/year*****	grab
Chromium, Total Recoverable	µg/L	*		*	once/year*****	grab
Cobalt, Total Recoverable	µg/L	*		*	once/year*****	grab
Copper, Total Recoverable	µg/L	*		*	once/year*****	grab
Sodium, Total Recoverable	µg/L	*		*	once/year*****	grab
Ammonia as N	mg/L	*****		*****	once/year*****	grab
Nitrate and Nitrite as N	mg/L	*		*	once/year*****	grab
Phosphorus, Total Recoverable	mg/L	*		*	once/year*****	grab
Mercury, Total Recoverable	µg/L	*		*	once/year*****	grab
Arsenic, Total Recoverable	µg/L	*		*	once/year*****	grab
Lead, Total Recoverable	µg/L	*		*	once/year*****	grab
Selenium, Total Recoverable	µg/L	*		*	once/year*****	grab
Silver, Total Recoverable	µg/L	*		*	once/year*****	grab
Manganese, Total Recoverable	µg/L	*		*	once/year*****	grab
Magnesium, Total Recoverable	µg/L	*		*	once/year*****	grab
Zinc, Total Recoverable	µg/L	*		*	once/year*****	grab
Antimony, Total Recoverable	µg/L	*		*	once/year*****	grab
Beryllium, Total Recoverable	µg/L	*		*	once/year*****	grab
Nickel, Total Recoverable	µg/L	*		*	once/year*****	grab
Sulfate	mg/L	*		*	once/year*****	grab
Thallium, Total Recoverable	µg/L	*		*	once/year*****	grab
Total Organic Carbon	mg/L	*		*	once/year*****	grab
Vanadium, Total Recoverable	µg/L	*		*	once/year*****	grab
Oil & Grease	mg/L	15		10	once/year*****	grab

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE October 28, 2004. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Part I STANDARD CONDITIONS DATED October 1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter during the months of January, April, July, and October.
- *** Grab samples shall be collected during a rainfall event, when there is runoff from the landfill site. The sample shall be collected no later than one hour after runoff begins.
- **** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- ***** The discharge shall not exceed the appropriate values in Table B 10 CSR 20, 7.031.
- ***** Samples shall be taken in September.

Note 1 - Outfalls #001A, #001B, #001C, #001D, #001E, #001F, and #001G are potential sampling points representative of other outfalls that are essential identical to Outfall #001. They will not be sampled unless requested by the department. Outfall #001 effluent limits will apply to these outfalls, if sampling is required.

Note 2 - The new Outfall #001 is considered representative of other outfalls provided the landfill structure and cover in areas tributary to other outfalls remains undamaged. Relocation of outfall 001 was necessary because the previous Outfall #001 was at a location that conducted significant amounts of stormwater from neighboring properties, therefore it was determined by the department that it does not properly represent storm water runoff from the landfill.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) 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.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.
2. All discharges shall comply with the Missouri Water Quality Standards, 10 CSR 20-7.031, Section (3)(c), which states "Waters shall be free from substance in sufficient amounts to cause unsightly color or turbidity...", and Section (4)(g), which states "Water contaminants shall not cause or contribute to turbidity or color that will cause substantial visible contact with the natural appearance of the stream...".
3. All activities performed to control erosion on the landfill site (seeding, mulching, terracing, etc.) shall be described and submitted along with the second quarter and fourth quarter Discharge Monitoring Reports. If no erosion controls are undertaken, indicate so on the reports.

C. SPECIAL CONDITIONS (continued)

4. All outfalls must be clearly marked in the field.

5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

6. Report as no-discharge when a discharge does not occur during the report period.

7. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

8. All design and operating specifications and all Solid Waste Management Program approval conditions pertaining to water quality are hereby made a part of this permit and shall apply throughout the life of this permit without regard to other conditions, permits, occurrences, etc.

9. The permit does not allow the discharge of storm water that has contacted the open face of the landfill. This permit does not allow the discharge of untreated leachate. All leachate shall be handled in accordance with the Solid Waste Disposal Area Operating Permit, Report of Approval of Plans and Specifications (with conditions) so that there is not discharge or runoff of leachate.