

PERMIT RATIONALE FOR REISSUANCE  
Canton, City of, Canton Sanitary Landfill  
Madison County  
Canton, Mississippi  
Water NPDES No. MSS058548

I. FACILITY INFORMATION

Facility Name: Canton, City of, Canton Sanitary Landfill  
Facility Address: 303 Soldier Colony Road  
Canton, MS 39046

Permit No.: MSS058548  
SIC: 4953  
Permit Writer: Sandra Lanier-Taylor  
EPD Branch: Mining and Solid Waste Management Branch

II. NATURE OF BUSINESS

The facility is a municipal solid waste landfill.

III. EFFLUENT AND RECEIVING STREAM FLOW DATA

Outfall	Total Area Drained	Receiving Stream
Outfall 001	51.62 acres	Bear Creek
Outfall 002	36.73 acres	Bear Creek
Outfall 003	18.36 acres	Bear Creek

IV. 303(d) ISSUES

Little Bear Creek is on the 303(d) list of impaired waterbodies. A Total Maximum Daily Load (TMDL) has been developed and finalized on June, 2016. Bear Creek was on the 303(d) list when this permit was issued in August 2004. Analytical information was submitted to the U.S. Environmental Protection Agency (EPA) which indicated that the proposed discharges to Bear Creek would not cause or contribute to the further impairment of Bear Creek. The EPA reviewed the submitted information and concurred with the Department conclusions on March 4, 2004. The only changes to the current permit are a relocation of one of the outfalls. The proposed change will not result in a change to the discharge to Little Bear Creek.

V. TYPE OF WASTEWATER TREATMENT:

Sedimentation is the only type of wastewater treatment used at this facility for the discharge of non-contact storm water.

VI. EPA APPLICABLE CATEGORICAL GUIDELINES

None.

VII. DATA FROM APPLICATION FORM 2F

Outfall	Parameter	Maximum Daily Value
001	Oil & Grease	Not Sampled*
	Biological Oxygen Demand	< 6mg/L
	Chemical Oxygen Demand	33 mg/L
	Total Suspended Solids	59 mg/L
	Total Nitrogen	1.49 mg/L
	Total Phosphorus	0.203 mg/L
	pH	7.70 SU
002	Oil & Grease	Not Sampled*
	Biological Oxygen Demand	7 mg/L
	Chemical Oxygen Demand	25 mg/L
	Total Suspended Solids	56 mg/L
	Total Nitrogen	1.843 mg/L
	Total Phosphorus	0.186 mg/L
	pH	8.70 SU
003	Oil & Grease	Not Sampled*
	Biological Oxygen Demand	6 mg/L
	Chemical Oxygen Demand	51 mg/L
	Total Suspended Solids	23 mg/L
	Total Nitrogen	3.897 mg/L
	Total Phosphorus	<0.100 mg/L
	pH	8.50 SU

\*A sample could not be obtained for this parameter at the time that the permit application was being reviewed due to no discharge. The facility will submit a sample and amend 2F, Part A of the NPDES permit application when a sample can be obtained and as per Condition S-6 of the permit.

VIII. WATER QUALITY LIMITATIONS BASED ON WASTELOAD ALLOCATION

None.

IX. CATEGORICAL GUIDELINE LIMITATIONS CALCULATIONS

Not applicable.

X. TOXICITY SCREENING

Not applicable.

## XI. PROPOSED FINAL LIMITATIONS

### 1. Average Permit Limitations

Outfall	Parameter	Categorical Limitation	Water Quality Limitation	Present Permit Limitation	Proposed Permit Limitation	Basis
MSS058548-001						
	COD	NA	NA	Report	Report	BPJ
	BOD	NA	NA	Report	Report	BPJ
	pH	NA	NA	6.0 (min.)	6.0 (min.)	BPJ
	TSS	NA	NA	90 mg/L	90 mg/L	BPJ
	Turbidity	NA	NA	Report	Report	BPJ
MSS058548-002						
	COD	NA	NA	Report	Report	BPJ
	BOD	NA	NA	Report	Report	BPJ
	pH	NA	NA	6.0 (min.)	6.0 (min.)	BPJ
	TSS	NA	NA	90 mg/L	90 mg/L	BPJ
	Turbidity	NA	NA	Report	Report	BPJ
MSS058548-003						
	COD	NA	NA	Report	Report	BPJ
	BOD	NA	NA	Report	Report	BPJ
	pH	NA	NA	6.0 (min.)	6.0 (min.)	BPJ
	TSS	NA	NA	90 mg/L	90 mg/L	BPJ
	Turbidity	NA	NA	Report	Report	BPJ

### 2. Maximum Permit Limitations

Outfall	Parameter	Categorical Limitation	Water Quality Limitation	Present Permit Limitation	Proposed Permit Limitation	Basis
MSS058548-001						
	COD	NA	NA	Report	Report	BPJ
	BOD	NA	NA	Report	Report	BPJ
	pH	NA	NA	9.0 (min.)	9.0 (min.)	BPJ
	TSS	NA	NA	Report	Report	BPJ
	Turbidity	NA	NA	Report	Report	BPJ
MSS058548-002						
	COD	NA	NA	Report	Report	BPJ
	BOD	NA	NA	Report	Report	BPJ
	pH	NA	NA	9.0 (min.)	9.0 (min.)	BPJ
	TSS	NA	NA	Report	Report	BPJ
	Turbidity	NA	NA	Report	Report	BPJ
MSS058548-003						
	COD	NA	NA	Report	Report	BPJ
	BOD	NA	NA	Report	Report	BPJ
	pH	NA	NA	9.0 (min.)	9.0 (min.)	BPJ
	TSS	NA	NA	Report	Report	BPJ
	Turbidity	NA	NA	Report	Report	BPJ

Each parameter and constructed outfall will be sampled monthly and reports submitted quarterly. Samples will be obtained through grab sampling.

XII. BPJ STATEMENT:

It is our Best Professional Judgement that the foregoing limitations represent NSPS and BPJ.