

CHEF MENTEUR C&D LANDFILL
MAY 26, 2006 DETENTION POND SAMPLING EVENT

SITE LOCATION AND DESCRIPTION

The Chef Menteur C&D (Construction and Demolition) Landfill is located at 16,600 Chef Menteur Highway (U.S. Highway 90) in New Orleans, Louisiana. The landfill is operated by Waste Management Inc. and accepts construction and demolition debris generated primarily from Hurricane Katrina recovery efforts. The site covers an area of approximately 80 acres. Figure 1 depicts the location of the landfill as shown on the U.S. Geological Survey, Little Woods, Louisiana, 7-1/2 minute topographic quadrangle map. Access to the landfill is through two entrance roads from Chef Menteur Highway. The site is bordered on the south by the Louisville and Nashville Railroad, on the east by the Southern Natural Gas Pipeline Canal, on the west by the Maxent Canal and on the north by Chef Menteur Highway and lots along the highway.

Included in this report is a summary of the sample collection activities, analytical data and an evaluation of the results.

SAMPLING LOCATION

The sampling location was the storm water detention pond located on the western third of the site. This detention pond was under construction at the time of the sampling event. Waste Management (WM) is finalizing the grade of sideslopes and have not seeded the sideslopes. Since opening the site, WM has not discharged from the stormwater pond. Prior to discharging, the pond will be sampled to determine if the water meets the discharge parameters.

In order to discharge from the detention pond, the water must be pumped to the nearby drainage canal (Maxent Canal). During the sampling event, the water was pumped with a 3-inch pump and sock filter to an adjacent pond. No water was discharged from the site during the sampling event.

DETENTION POND WATER SAMPLING

Field activities to collect water samples from the site's storm water detention pond were conducted on May 26, 2006. The sampling was performed by Severn Trent Laboratories (STL) of Kenner, Louisiana. Field parameters such as temperature, pH, and specific conductance were monitored to assure quality samples were acquired and to meet LDEQ sampling requirements. During field activities, one grab samples were and one duplicate sample were taken.

SAMPLE COLLECTION

Water samples were collected using a decontaminated polyethylene dipper and decanted into the appropriate decontaminated containers supplied by STL. For the sampling event, water was discharged through a 3-inch pump and sock filter to an adjacent on-site detention pond. This discharge was the flow that was sampled. No water was discharged from the site during the sampling.

One grab sample and one duplicate sample were collected. After each sample container was filled with the necessary surface water volume, the appropriate preservatives, provided by STL, were added before sealing each container. Then, the samples were stored on ice until they arrived at the STL's laboratory.

The samples were analyzed for the parameters with wastewater discharge limitations under the LPDES General Permit for Construction/Demolition Debris and Woodwaste Landfills. These parameters include Total Dissolved Solids (TSS), 5-day Biochemical Oxygen Demand (BOD₅), Ammonia, Alpha Terpineol, Benzioc Acid, p-Cresol, Phenol, Zinc (Total), and pH. The discharge limitations from the LPDES General Permit are provided in **Attachment A**.

The samples were analyzed by STL in Kenner, Louisiana. The STL report for the May 2006 sampling event is provided in **Attachment B**. The chain-of-custody forms for sample handling also are provided in **Attachment B**.

RESULTS SUMMARY

The following table presents the sample concentrations as well as the LPDES General Permit effluent limitations for each.

Parameter	May 26, 2006 Sampling Event		Permit Discharge Limits	
	Sample 01	Sample 01 Field Duplicate	Monthly Average	Daily Maximum
Ammonia	7.68 mg/L	7.71 mg/L	4.9 mg/L	10 mg/L
BOD ₅	8 mg/L	7 mg/L	37 mg/L	140 mg/L
TSS	6 mg/L	6 mg/L	27 mg/L	88 mg/L
Zinc (Total)	0.048 mg/L	0.033 mg/L	0.11 mg/L	0.20 mg/L
PH	7.94 Std. Units	7.94 Std. Units	6.0 Std. Units (Minimum)	9.0 Std. Units (Maximum)
<i>Semi-volatiles</i>				
4-Methylphenol (p-Cresol)	ND (10 µg/L)	ND (10 µg/L)	14 µg/L	25 µg/L
Alpha Terpineol	ND (10 µg/L)	ND (10 µg/L)	16 µg/L	33 µg/L
Benzoic Acid	ND (50 µg/L)	ND (50 µg/L)	71 µg/L	120 µg/L
Phenol	ND (10 µg/L)	ND (10 µg/L)	15 µg/L	26 µg/L

Of the monitoring parameters, all were below the daily maximum of the Discharge Permit, and only ammonia was detected above the monthly average discharge limit of the Permit.