

SLUDGE DISPOSAL MANAGEMENT PLAN (DMP)

Communities Wastewater Treatment Facility

November 04, 2009

Current Wastewater Treatment Facility

The Communities Wastewater Treatment Facility (C WWTF), operated by Water Service Company, is an extended aeration activated sludge facility. The C WWTF is located at 123 Trail, City, NM, and services the town of Belder and the surrounding area in NM. Daily, about 2,000 gallons of waste activated sludge at less than 1% Total Suspended Solids is pumped to holding tanks. The sludge is decanted to a concentration of about 1% and further dewatered with a centrifuge to a cake of 20-30% Total Solids (%TS). The centrifuge came on line August 2009, eliminating previous land application of the sludge. Based on the annual National Pollutant Discharge Elimination System (NPDES) Sludge Discharge Monitoring Report for 2008, the C WWTF produces about 70 dry tons of sludge per year, of which all will be disposed of at a landfill. And assuming a maximum roll-off container load of 10 tons, the container will be taken to the permitted disposal facility bi-weekly (see Attachment A, Sludge Disposal Calculations).

Generator Contact Information

Name: Bobby T
Telephone: 555-123-4567
Fax: 555-123-4567
E-mail: b@water.com

Disposal Facilities

Pursuant to 20.9.8.16 NMAC-Sludge, Water Service Company is requesting NMED approval to transport and dispose of dewatered waste activated sludge at the Valencia Regional Landfill and Recycling Facility, located at 1600 West Highway 6, Los Lunas, NM. This facility is permitted to receive municipal sludge under permit no. SWM-231402 & SWM-012339(SP), and is operated by Waste Management of New Mexico. The sludge will be disposed of in accordance with the landfill operations (see Appendix B for landfill communication and preliminary waste approval).

Truck Route to the Valencia Regional Landfill

From Communities Wastewater Treatment Facility at 123 Trail, head east on Trail. Turn north on Highway 3 to Road. Turn west on Road to Main Street. Turn North on Main Street to I-25. Turn North on I-25 to Exit 2. Turn West on Main Street/Highway 6 to the Valencia Regional Landfill located at 1600 West Highway 6. (See Attachment C)

Transportation to Landfill

A registered special waste hauler will be used. The sludge will be transported by **DISPOSAL, INC.**

Contact and Address: Charles M
Disposal, Inc.
123 Address Road
City, NM 87000
555-123-4567 (Phone)
555-123-4567 (Fax)

The dewatered waste activated sludge will be transported in a leak-free and covered trailer. Each load will have a special Waste Manifest (see Attachment D), which meets the requirements specified in Section 20.9.8.19 NMAC. The original and signed copies of the manifest will be kept on file at the C WWTF, as per Section 20.9.8.19.NMAC.

Sludge Sampling and Analysis

A representative sample of the dewatered activated sludge will be sampled for parameters listed below prior to transporting each roll-off container to the Valencia Regional Landfill for disposal. The representative sample will be taken in the center of the roll-off container, about 12 inches below the surface of the sludge.

A representative sample of the dewatered waste activated sludge was collected on August 26, 2009, for analysis for the Paint Filter Liquids Test. Analytical Laboratories, Inc. conducted the analysis. This lab will continue to be used for such services. All other parameters listed below were tested on March 4, 2009 to ensure adherence with specified limits in Section 20.9.8.19 NMAC (see Attachment E).

During normal operation, representative samples for the parameters listed below will be collected every 100 cubic yards, or 5 representative samples collected and analyzed per year (5 roll-off loads @ 10 tons/load or every 50 tons – see Attachment A for sludge disposal calculations), until permission to reduce the number of samples taken annually is requested from the generator (based on a demonstration the sludge is homogeneous) and approved by the Solid Waste Bureau.

Required Sludge Analysis Parameters:

20.9.8.16.D. NMAC Prior to delivery of sludge to a solid waste facility for disposal, the generator shall test a representative sample for the following parameters to determine if it exceeds the specified limits below:

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- (1) no free liquids as determined by paint filter liquids test¹ (U.S. EPA test method 9095), *unless exempt in accordance with 20.9.4.17 NMAC (Research, Development, and Demonstration Permits)*;
- (2) percent solids (no specified limits)¹;
- (3) pH, within the range of 2.0 to 12.5¹;
- (4) polychlorinated biphenyls (PCB's), *less than 50 mg/Kg*; and
- (5) toxicity characteristic leaching procedure (TCLP) (U.S. EPA test method 1311), for the following parameters and maximum allowable concentrations:
 - (a) arsenic, 5.0 mg/L¹;
 - (b) benzene, 0.5 mg/L;
 - (c) cadmium, 1.0 mg/L¹;
 - (d) chlordane, 0.03 mg/L;
 - (e) chromium, 5.0 mg/L¹;
 - (f) 2,4-Dichlorophenoxy-acetic acid, 10.0 mg/L;
 - (g) lead, 5.0 mg/L¹;
 - (h) lindane, 0.4 mg/L;
 - (i) mercury, 0.2 mg/L¹;
 - (j) methyl ethyl ketone, 200.0 mg/L; and
 - (k) toxaphene, 0.5 mg/L.

[¹ Reduced Parameter List for Water Treatment Sludge (e.g. cooling tower water, drinking water filter media), absent any reason to require additional parameters; Solid Waste Bureau policy guidance from March 9, 2011 (revision).]

Contingency Plan

The Sludge Transporter will be a registered hauler with an approved contingency plan in the event of an unplanned release or spill of the sludge (see Attachment F). Local police can contact the Water Service Company Operations Supervisor, Bobby T at 555-123-4567 in the event of an emergency.

Future Sludge Disposal Plan

The Water Service Company plans to continue the procedure outlined in this DMP for the foreseeable future.

If you have any questions or require additional information, please contact me at the number given below.

Sincerely,

WATER SERVICE

EXAMPLE DMP

Robert T, Operations Supervisor

RT/rt

Enclosures

cc Jake K, NMED
Sandra G, NMED
WSC File

Enclosures:

Attachment A – Sludge Disposal Calculations

Attachment B – Waste Management, Valencia Regional Landfill & Recycling Facility
Approval

Attachment C – Truck Route Directions and Map

Attachment D – Waste Manifest

Attachment E – Waste Activated Sludge Laboratory Analysis

Attachment F – Transporter Contingency Plan