

# NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

## FACT SHEET

(Pursuant to NAC 445A.236)

**Permittee Name:** Waste Management Inc., Refuse Inc.  
100 Vassar Street  
Reno, NV 89512

**Permit Number:** NV0022977

**Location:** Sage Street Transfer Station,  
Collection and Maintenance Facility  
1390 East Commercial Row  
Reno, Washoe County, Nevada  
Township 19N, Range 19E, Section 12

**Discharge Location**

Latitude: 39° 31' 48" N,

Longitude: 119° 47' 47" W

**Drinking Water Protection:**

Portions of the subject facility is within the 3000' foot Drinking Water Protection Area (DWPA) around a public water supply Well 22 (Kietzke Well) owned by Truckee Meadows Water Authority (TMWA). The facility is with the modeled Well 22 5-year capture zone.

**Bureau of Corrective Actions:**

There are nine (9) remediation action sites within one mile of the facility, four administered by the Nevada Division of Environmental Protection (NDEP) Bureau of Corrective Actions (BCA) and five administered by Washoe County District Health Division (WCDHD). The permitted discharge activity is not expected to adversely impact the ongoing remediation actions. Details of the remediation sites are listed below:

Project ID #	Site Number	Facility Name	Corrective Action Type (Media/Contaminant)
5649	D000762	Kinder Morgan Energy Partners	Soil & Groundwater/Jet Fuel, Av Gas
2326	4-000573	Reno Police Station (WCDHD)	Groundwater/Gasoline
2781	4-000830	MAACO Auto Painting & Body Shop (WCDHD)	Soil/Other
5801	D000100	City of Reno Redevelopment Agency	Soil & Groundwater/TPH
8627	D000822	Leah C. Silverman Property	Soil/Heating Oil
4179	D-001279	J&B Sweeping (WCDHD)	Soil/Motor Oil
3634	D-001311	Bogart Property (WCDHD)	Soil/Motor Oil
4365	4-000917	RMC Nevada Plant (WCDHD)	Soil & Groundwater/Diesel
8186	D-000818	Reliance Express Mobile Source	Soil/Diesel

TPH: Total Petroleum Hydrocarbons

**General:**

The Waste Management facility is a solid waste transfer facility with municipal waste recycling and onsite vehicle maintenance. The facility is located on the north bank of the Truckee River just east of Sutro Street at 1390 East Commercial Row in Reno, Nevada. Constructed berms protect the facility from bank flooding during high water levels in the river. There is a vehicle maintenance shop and a vehicle wash pad which discharge to the sanitary sewer.

The first component of the discharge is intercepted uncontaminated groundwater. During exceptional high river-flow events, the groundwater in the area of the facility may rise and produce flow to a pump station due to infiltrating groundwater. The discharge of groundwater dewatered from the site is designated Outfall 001.

Stormwater may be an additional component of discharge. All of the transfer operations and recycling activities occur in covered facilities so the only potential for impact to the stormwater would be from incidental materials dropped from transportation vehicles and/or minor oil leaks in the transportation equipment. All stormwater is treated in oil/water separators prior to discharge. Discharge from the stormwater collection/treatment system is to leachfields during design rainstorm events, with the exception of one unit, which discharges treated water to the Truckee River. The parking lots are sloped to drop inlets which discharge to five leachfields through five oil/water separators. Additionally, stormwater from the facility truck pad areas is collected in four drain interceptors (DI), and is discharged to two separate drain fields (two DIs per leach field). The discharge to groundwater through the five sand/oil separators and ultimately to the five leachfields is designated as Outfall 002.

The leachfields are designed to handle rainstorm events of 1/4" to 1/3", which constitutes what is described as the "first flush". After the first flush, stormwater bypasses the oil/water separator leachfields and discharges to the river either by over flow pipes via the pump station. The pump system will pump excess stormwater or groundwater to the Truckee River. There are six outfall pipes which discharge to the river. This component of discharge to the Truckee River is designated Outfall 003.

The following Table lists the various Outfall designations for clarity:

<b>Outfall Number</b>	<b>Outfall Name</b>	<b>Outfall Description</b>
001	Groundwater Lift Station Pumps	Pumps groundwater during very significant events resulting in elevated groundwater levels.
002-1	Drain Interceptor, West side of West Truck Pad	Stormwater flows into baffled Drain Interceptor from truck pad and into designated 8,900 gallon capacity leach field.
002-2	Drain Interceptor, East side of West Truck Pad	Stormwater flows into baffled Drain Interceptor from truck pad and into designated 8,900 gallon capacity leach field
002-3	Drain Interceptor, West side of East Truck Pad	Stormwater flows into baffled Drain Interceptor from truck pad and into designated 7,900 gallon capacity

Outfall Number	Outfall Name	Outfall Description
		leach field
002-4	Drain Interceptor, East side of East Truck Pad	Stormwater flows into baffled Drain Interceptor from truck pad and into designated 7,900 gallon capacity leach field
002-5	Sand/Oil Separator, Southeast of Property	Stormwater flows into baffled sand/oil separator from 4.66 acre area, and into designated 32,500 gallon capacity leachfield.
002-6	Sand/Oil Separator, Southwest of Parking Lot	Stormwater flows into baffled sand/oil separator from 4.66 acre area, and into designated 32,500 gallon capacity leachfield.
002-7	Sand/Oil Separator, East of Medical Waste Facility	Stormwater flows in excess of 6,914 gallons (separator capacity) into a baffled sand/oil separator from 1.48 acre area into a discharge pipe which flows into the Truckee River.
002-8	Sand/Oil Separator, Southeast corner of roll-off storage yard	Stormwater flows into a baffled sand/oil separator from 5.18 acre area, and into designated 34,900 gallon capacity leachfield.
002-9	Sand/Oil Separator, Southwest corner of roll-off storage yard	Stormwater flows into a baffled sand/oil separator, and into designated 15,080 gallon capacity leachfield.
003-1	Sand/Oil Separator Leachfield overflow from 002-5	Stormwater over capacity of leachfield
003-2	Sand/Oil Separator Leachfield overflow from 002-6	Stormwater over capacity of leachfield
003-3	Sand/Oil Separator Leachfield overflow from 002-7	Stormwater over capacity of Sand/Oil Separator
003-4	Sand/Oil Separator Leachfield overflow from 002-8	Stormwater over capacity of leachfield
003-5	Sand/Oil Separator Leachfield overflow from 002-9	Stormwater over capacity of leachfield

**Receiving Water Characteristics:**

The discharge is to the Truckee River and must meet the river standards at East McCarran, as listed in NAC 445A.186. The beneficial uses of the Truckee River include municipal or domestic supply, propagation of fish, and aquatic life. This stretch of the Truckee River meets Requirements to Maintain Higher Quality (RMHQs). The groundwater is of good quality and will be monitored to ensure degradation does not occur.

**Discharge Flow and Characteristics:**

During the period from November 2007 through November 2010, there were no discharges to the Truckee River from Outfall 001. There was one discharge to the river from Outfall 003, which had Total Petroleum Hydrocarbon concentration of 10.8 mg/L, in exceedance of the permit limit of 1.0 mg/L. Pursuant to permit requirements to sample Outfall 002 each quarter in which there is precipitation in excess of 0.25 inches/day, discharge to groundwater was sampled a total of five (5)

times. In the first three sampling events, TPH limits for this Outfall (15 mg/L) were exceeded. Best Management Practices and changes to operating procedures were instituted in December 2009 to better manage the operation of Outfall 002. Since that time, discharges from Outfall 002 have been below the permit limit. Testing of monitor wells MW-1 through MW-4 has indicated no impact to groundwater. Monitor well MW-5 has been dry for the period in question.

**Proposed Effluent Limitations, Special Conditions, and Rationale for Permit Limitations:**

Discharges under this permit shall be monitored and limited according to the following Table:

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	Annual Average	Daily Maximum	Outfall	Measurement Frequency	Sample Type
Flow (MGD)	Monitor & Report	Monitor & Report	001	Continuous	Flow Meter
Total Suspended Solids (mg/l)	15	---	001	Quarterly	Discrete
pH (Standard Units)	Monitor & Report	7.0 to 8.5	001	Quarterly	Discrete
Fecal Coliform (CFU/100 ml)	75 <sup>(1)</sup>	350	001	Quarterly	Discrete
Total Phosphates as P (mg/l)	0.05	---	001	Quarterly	Discrete
Total Nitrogen as N (mg/l)	0.3	0.43	001	Quarterly	Discrete
Total Dissolved Solids (mg/l)	90	120	001	Quarterly	Discrete
Total Petroleum Hydrocarbons (TPH) (mg/l)	Monitor & Report	1	001	Quarterly	Discrete
	Monitor & Report	15	002-1 through 002-6 and 002-8 through 002-9 <sup>(2)</sup>	Each Rain Event Exceeding 0.25 Inches/Day <sup>(3)</sup>	Discrete
	---	1	002-7 and 003-1 through 003-5	Each Discharge Event	Discrete
Daily Rainfall <sup>(4)</sup> (inches)	---	Monitor & Report	Rain Gauge	Daily	Discrete

(1) Average Geometric Mean

(2) Stormwater flows shall be sampled when present at a frequency of not more than quarterly.

- (3) If there have been no rain events exceeding 0.25 inches/day in a calendar year, Outfall 002-1 through 002-6 and 002-8 through 002-9 shall be sampled in December as an annual sample.
- (4) Rain event log submitted with DMR.

Groundwater monitoring wells MW-1, MW-2, MW-3, and MW-4 shall be monitored and water quality shall be limited according to the following Table:

PARAMETER	LIMITATION	FREQUENCY	SAMPLE TYPE
Depth to Groundwater (feet)	Monitor and Report	Annually	Discrete
Groundwater Elevation (feet AMSL)	Monitor and Report	Annually	Calculate
Total Petroleum Hydrocarbons (mg/l)	10	Annually	Discrete
Chlorides (mg/l)	Monitor and Report	Annually	Discrete
Total Dissolved Solids (mg/l)	Monitor and Report	Annually	Discrete

### **Rationale for Permit Requirements**

**Outfall 001:** Outfall 001 will be monitored and limited for the following reasons:

Flow: Flow is monitored to assess the volume of discharge to the Truckee River.

Total Suspended Solids: Total Suspended Solids (TSS) is monitored to ascertain that this discharge does not violate the water quality standards of the Truckee River for this parameter (NAC 445A.186). There is currently not enough data to evaluate potential impacts.

pH: Monitoring required to ascertain that this discharge does not violate the water quality standards of the Truckee River for this parameter (NAC445A.186). There is currently not enough data to evaluate potential impacts.

Fecal Coliform: Monitoring required to ascertain that this discharge does not violate the water quality standards of the Truckee River for this parameter (NAC445A.186). There is currently not enough data to evaluate potential impacts.

Total Phosphates as P: This load is considered de minimis; therefore, this limit will be in place until the ongoing evaluation of the TMDL is complete. The Permittee may be required to obtain a Waste Load Allocation (WLA) in the future.

Total Nitrogen as N: This load is considered de minimis; therefore, this limit will be in place until the ongoing evaluation of the TMDL is complete. The Permittee may be required to obtain a WLA in the future.

Total Dissolved Solids: Monitoring is required to evaluate the need for a WLA. There is not enough data to adequately define a WLA.

**Outfall 002 and Outfall 003:** Outfalls 002 and 003 will be monitored and limited for the following

reasons:

Total Petroleum Hydrocarbons: This limit is established on sound engineering judgment based on the efficiency of oil/water separators.

**Schedule of Compliance:**

The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications that the Administrator may make in approving the schedule of compliance.

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- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
  - b. **By MMM DD, 2011**, Permittee shall provide any updates to the dewatering and stormwater facility Operations and Maintenance (O&M) Manual, including, but not limited to, any changes to the Best Management Practices or operating procedures. If no updates or revisions are required, the Permittee shall submit a letter stating that condition by the above date. The updates or the letter shall be submitted to the Division at the following address:

**Department of Conservation and Natural Resources  
Nevada Division of Environmental Protection  
Bureau of Water Pollution Control  
ATTN: Compliance Coordinator  
901 S. Stewart Street, Suite 4001  
Carson City, Nevada 89701**

**Proposed Determination:**

The Division has made the tentative determination to renew the permit, subject to permit limitations and requirements, for a period of five (5) years.

**Procedures for Public Comment:**

The notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit is being sent to the **Reno Gazette-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice. In order to be considered, written comments must be hand-delivered, sent via mail (postmarked), emailed or faxed no later than **5:00 P.M. on June 20, 2011**. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency,

person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445.150.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445.274.

Prepared by: Janine O. Hartley, P.E.  
Bureau of Water Pollution Control  
Draft: March 2011  
Final:

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