



STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

Colleen Cripps, Ph.D., Administrator

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: Desert Utilities, Inc.
4060 North Blagg Road, Suite 110
Pahrump, Nevada 89060

Facility Name: Desert Utilities Water Treatment Plant #1
800 West Simkins Road
Pahrump, Nevada 89060

Permit Number: NEV91044

Location: Section 21, T19S, R53E; Latitude: 36°16' 46" N, Longitude: 116°01' 53" W

General: Desert Utilities, Inc. (DUI) is requesting renewal of its current discharge permit NEV91044. The Marwood treatment plant, which has a capacity of 0.175 million gallons per day (MGD) is an activated sludge extended aeration plant that is designed to provide secondary treated, denitrified effluent. The treated effluent is disposed via rapid infiltration basins (Outfall 001) with some limited reuse to irrigate windbreak vegetation (Outfall 002).

Corrective Actions Sites: There is no Bureau of Corrective Actions remediation site located within a one-mile radius of the treatment plant.

Wellhead Protection Area: The nearest public water supply well from the wastewater treatment plant is located outside the 6,000 foot Drinking Water Protection Area.

Flow: The permitted 30-day average flow is 0.175 MGD.

Receiving Water Characteristics: Groundwater in the vicinity of the treatment plant is located about 74 feet below ground surface. DUI has installed three monitoring wells – one up-gradient and two down-gradient – to test for certain water quality parameters. The groundwater monitoring wells are sampled quarterly with a discrete sample and analyzed for TDS, chlorides, nitrate, total nitrogen (Total-N) and static water level, as listed in Table 2, then the results are submitted to the Nevada Division of Environmental Protection (NDEP). If the Total-N levels increase to 7.0 mg/L an alternate method of disposal, approved by NDEP, shall be selected. If the Total-N levels increase to 9.0 mg/L construction of the approved alternate site must begin. If the Total-N levels increase to 10.0 mg/L, discharge to groundwater must cease. Recent results

show that the Total Nitrogen levels in the monitoring wells are less than 5 mg/L.

Discharge Monitoring Requirements: Table 1 lists the water quality monitoring requirements for the wastewater treatment plant. Samples taken in compliance with the monitoring requirements specified in Table 1 are collected by DUI and analyzed by a state-certified lab. Discharge Monitoring Reports (DMRs) are submitted quarterly to NDEP by the Permittee.

Parameter	Discharge Limitations		Monitoring Requirements	
	30 Day Average	Daily Maximum	Measurement Frequency	Sample Type
Influent Flow (MGD) ⁽¹⁾	M&R	M&R	Continuous	Meter
Effluent Flow (MGD) ⁽²⁾	0.175	0.175		
Influent BOD ₅ (mg/L)	M&R	M&R	Monthly	Composite
Effluent BOD ₅ (mg/L)	30	45		
Influent TSS (mg/L)	M&R	M&R	Monthly	Composite
Effluent TSS (mg/L)	30	45		
Total Nitrogen (mg/L)	10		Quarterly	Discrete
pH	6.0 - 9.0 standard units		Quarterly	Composite
Flow (MGD) – Outfall 002 ⁽³⁾	M&R		Continuous	Meter
Fecal Coliform (cfu/100 mL) ⁽³⁾	23	240	Monthly	Composite

- (1) Influent samples shall be taken before treatment
- (2) Effluent samples shall be taken at the effluent flow metering structure
- (3) Report only when reuse occurs. These numbers shall be reported on a separate DMR form.
 MGD – Million Gallons per Day BOD₅ – Biological Oxygen Demand (5-day)
 TSS – Total Suspended Solids CFU – Colony Forming Units
 M&R - monitor & report

Parameter	Limitation	Monitoring Requirements	
		Frequency	Sample Type
Depth to Groundwater	M&R	Quarterly	field measurement
Groundwater Elevation	M&R	Quarterly	calculate
Nitrates as N (mg/L)	M&R	Quarterly	discrete
Total-N as N (mg/L)	10	Quarterly	discrete
Chlorides (mg/L)	M&R	Quarterly	discrete
Total Dissolved Solids (mg/L)	M&R	Quarterly	discrete

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the following schedule of compliance:

1. By **MonthDay, 2012**, the Permittee shall submit an **updated** Operations and Maintenance (O&M) Manual, compiled in accordance with appropriate sections of guidance document WTS-2, "*Minimum Information Required for an Operations and Maintenance Manual for a Wastewater Treatment Plant,*" for review and approval by NDEP;
2. By **MonthDay, 2012**, the Permittee shall submit an **updated** Effluent Management Plan (EMP), compiled in accordance with appropriate sections of guidance document WTS-1B, "*General design Criteria for Preparing an Effluent Management Plan,*" for review and approval by NDEP;
3. If no updates or changes to the O&M Manual or EMP are required, the Permittee shall submit a letter by the above due date stating that there have been no changes to the previously approved O&M Manual or EMP. Two copies of any submittal shall be mailed to the following address:

Compliance Coordinator
NDEP
Bureau of Water Pollution Control
901 S. Stewart St, Suite 4001
Carson City, NV 89701

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 **Las Vegas Review-Journal** and the **Pahrump Valley Times** 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. The comment period can be extended at the discretion of the Administrator. **All comments must be received by NDEP by 5:00 pm, January 16, 2012.**

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 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Prepared by: Steve McGoff, P.E.
Staff Engineer III
December 12, 2011