



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: City of Henderson - Parks and Recreation Department
240 Water Street
Henderson, NV 89015

Location: Boulder Highway Corridor
Sunset Road to Horizon Drive
Henderson, Clark County, Nevada

Township 21S, Range 62E, Section 35
Township 22S, Range 62E, Sections 1, 2 and 12
Township 22S, Range 63E, Sections 7, 17, 18, 20, and 21

Terminus of Irrigation Area:
Latitude: 36° 00' 50.71" N
Longitude: 114° 57' 12.58" W

Permit Number: NEV2000513

Public Water Supply:
There are no public water supply wells within one mile of this facility.

Corrective Actions Sites:
Due to the depth of groundwater, the irrigation activities in this permit will not impact any Bureau of Corrective Actions sites within one mile of the site.

Wellhead Protection Area:
This facility is located outside of the 6,000 feet Drinking Water Protection Area (DWPA) and not within a delineated wellhead capture zone for any public supply well.

Flow:
The permitted flow will be limited to 250 acre-feet (81,462,857 gallons) annually.

General:
The Boulder Highway Landscape Irrigation System is comprised of 104 acres of landscaped medians and shoulder strips along approximately 4.8 miles of Boulder Highway, from Sunset Road to Horizon Drive, in Henderson, Nevada. Tertiary treated municipal wastewater effluent from the Kurt R. Segler Water Reclamation Facility (formerly the City of Henderson Wastewater Treatment Facility), Permit NEV80003, is

applied automatically through controlled spray irrigation to turf areas and by drip irrigation to trees and shrubs. The effluent meets Category B requirements.

Receiving Water Characteristics:

The minimum depth to groundwater for the permitted Boulder Highway corridor section is 20 feet, but the depth to groundwater varies with location. Groundwater flow is generally to the northeast. There are no known domestic wells downgradient of the irrigation area; potable water supply for the City of Henderson is Lake Mead. Irrigation activities are not expected to adversely impact groundwater; monitoring wells are not associated with this permit.

Discharge Characteristics

From July, 2006 through December, 2010, the average flow discharged for reuse was 0.195 Million Gallons per Day (MGD), with a daily maximum of 12.701 MGD. The average fecal coliform discharged was 1.2 Colony Forming Units (CFU) per 100 milliliters (ml), with a daily maximum of 4 CFU/100 ml.

Discharge Limitations:

The Kurt R. Segler Water Reclamation Facility provides the reuse site with a high quality reclaimed water product that conforms to Category B requirements. The coliform requirement is set at 2.2 mpn/100 ml Fecal Coliform, 30-day average. Therefore, in accordance with NAC 445A.276, a buffer zone is not required, and control of public access is required.

Table I.1: Discharge Limitations

EFFLUENT PARAMETERS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Monitor and Report	Monitor and Report	Continuous	Flow Meter
Annual Effluent Application Volume (MG)	81.463		Cumulative	Calculate
Fecal Coliform (CFU or MPN / 100 ml)	2.2	23	Weekly	Discrete

Sampling:

Samples taken in compliance with the monitoring requirements specified in Table I.1 shall be collected prior to reclaimed water reuse. Monitoring requirements may be satisfied by data collected by the Kurt R. Segler Water Reclamation Facility and the City of Henderson. Discharge Monitoring Reports shall be submitted by the Permittee. Copies of the backup data or water quality calculation summaries are to be maintained at the reuse site for inspection by the Division upon request.

Schedule of Compliance:

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

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. **By MM DD (60 Days), 2012**, The Permittee shall submit a new Effluent Management Plan, including a nitrogen balance for the landscaped areas, for Division review and approval to the following address:

Department of Conservation and Natural Resources
Division of Environmental Protection
Bureau of Water Pollution Control
ATTN: Compliance Coordinator
901 S. Stewart Street, Suite 4001
Carson City, Nevada 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** 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, December 23, 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 in accordance with Nevada Administrative Code (NAC) 445A.238.

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

Proposed Determination:

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

Rationale for Permit Requirements:

The limitations and monitoring requirements are intended to provide for appropriate reuse of treated effluent, to minimize the possibility of adverse impact to groundwaters of the State, and to alert those persons who might have contact with treated effluent to its presence at the application site.

Prepared by: Rob Wimer
November, 2011