



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

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NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name:

City of Sparks
431 Prater Way
Sparks, Nevada 89431

Permit Number:

NEV2007506

Locations:

D'Andrea HOA Streetscapes, Common Areas/Green Belts Landscape Irrigation at N. & S. D'Andrea Parkway, Vista Blvd., & San Marino Drive, Sparks, NV; Longitude: 119°42'15"W., Latitude: 39°33'16"N., Sections 35 and 36, T.20N., R.20E.

TEC Equipment/Trucking, Inc. Landscape Irrigation, between Vista Blvd. and Heights Drive, Sparks, NV. Longitude: 119°42'23.66"W., Latitude: 39°31'18.57"N., Sections 23 and 26, T.20N., R.20E.

Copper Canyon Streetscapes, Green Belts, Common Areas, Parks Landscape Irrigation and Temporary Irrigation of revegetation and for Construction Water and Dust Control, Vista Blvd. at Copper Canyon Parkway (Brierly Way), Sparks, NV. Longitude: 119°42'02"W., Latitude: 39°31'42"N., Sections 2, 11, & 12, T.19N., R.20E, and Section 36, T20 N., R20E.

Stonebrook Development Streetscapes, Common Areas, Parks and Green Belts Landscape Irrigation, South of La Posada Drive and East of Pyramid Highway, Sparks, NV. Longitude: 119°42'14"W., Latitude: 39°37'44"N., Section 2, T.20N., R.20E.

Spanish Springs Nursery, Landscape & Nursery Irrigation, 7655 Pyramid Highway, Sparks, NV. Longitude: 119°42'58"W., Latitude: 39°38'05"N., Section 3, T.20N., R.20E., & Section 35, T.21N., R20E.

Public Water Supply: There is a public supply well near the D'Andrea HOA reuse site. It is ranked as highly vulnerable to volatile organic compounds (VOCs), soluble organic compounds (SOCs), and inorganic compounds (IOCs). 2 wells directly north of northwest corner of the Stonebrook site are moderately vulnerable to SOC. Another well north of Stonebrook is highly vulnerable to radiation & moderately vulnerable to IOC and coliform. D'Andrea HOA is within the 1,000-foot Drinking Water Protection Area (DWPA). Part of Copper Canyon is within the 6,000-foot DWPA. Parts of Stonebrook are within the 3,000-foot DWPA, and the Spanish Springs Nursery is within the 1,000-foot DWPA. Reclaimed water as applied for reuse in accordance with the permit is not anticipated to impact the quality of the groundwater.

Wellhead Protection Area: The D'Andrea Point reuse site is within an established wellhead protection area (well W32, PWS NV00000190). Reuse as applied in accordance with the permit is not anticipated to impact the quality of the groundwater.

Corrective Action Sites: There are seven Bureau of Corrective Actions (BCA) remediation sites within one mile of the various reuse sites of this permit. The Washoe

County Health District (WCHD) is currently in charge of the remediation sites. Due to the nature of the effluent application, BCA and WCHD have no issues with effluent reuse at these sites.

General: The City of Sparks Department of Public Works proposes to supply and manage the use of treated effluent for irrigation of streetscapes and common area/parks and other approved uses at the subject properties listed on page one of this permit under the terms and conditions of this permit and the approved Effluent Management Plan. The sites are all located in the eastern Sparks and the Spanish Springs area of northern Sparks, where treated effluent will be used for irrigation via spray and drip irrigation, or for construction water/dust control. Annual reclaimed water usage for the properties and fill stations is estimated to be a maximum of approximately 351.87 acre-feet/year.

Reclaimed water is supplied by the Truckee Meadows Water Reclamation Facility (NEV2003506). This facility (TMWRF) provides reclaimed water that meets Category B quality (NAC 445A.276) and is denitrified (below 10 mg/l N).

Receiving Water Characteristics: Groundwater in the area is potable, and the depth to groundwater in the area varies from 10 feet below the ground surface to over 40 feet below the ground surface. In the approved Effluent Management Plan (EMP), the Permittee will need to ensure that the treated denitrified effluent is applied at the consumptive rate. No adverse effects to groundwater are expected to occur as a result of this effluent reuse.

Description of the Location of the Discharge: The applicant uses tertiary treated, denitrified and disinfected reclaimed water provided by TMWRF on a total of five sites.

Flow: Effluent demands of current users have been revised to more accurately reflect actual usage based on flow monitoring. In addition, four sites have been removed from this application. All sites included in this permit are listed above in the location section.

Discharge Characteristics: During the period from October 2008 through March 2011, the following selected discharge characteristics were reported in Discharge Monitoring Reports (DMRs):

Table 1: Discharge Characteristics

Parameters and Units		Permit Limit	Minimum	Maximum	Mean	Number of Exceedances
Flow, (MGD)	30-Day Avg	0.637	0.000	0.163	0.043	0
	Daily Max	1.00	0.000	0.297	0.092	0
Fecal Coliform (MPN/100 ml)	30-Day Avg	2.2	1.1	1.1	1.1	0
	Daily Max	23	1.1	22.0	2.1	0

Discharge Limitations: TMWRF provides the City of Sparks with a Category B denitrified reclaimed water product. The 30-day average requirement for fecal coliform is set at 2.2 mpn/100 ml. Therefore, in accordance with NAC 445A.276, a buffer zone is not required, but control of public access is required.

Table 2: Discharge Limitations

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Total Flow (MGD)	0.637	1.00	Continuous	Flow Meter
Annual Application Volume (AF)	351.87 Acre-Feet/Year		Cumulative	Flow Meter
Fecal Coliform (CFU, MPN)/100 ml	2.2	23	Weekly	Discrete
Total Nitrogen (mg/L)	10.0	10.0	Monthly	Discrete

Table Clarifications:

Fecal coliform results may be obtained from TMWRF, Permit #NEV2003506.
Submit annual application volume in acre-feet (AF) with 4th Quarter Report DMR.

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; the Permittee shall notify NDEP within 14 days of initiation of reuse activities.
- b. Two copies of an updated Effluent Management Plan (EMP) shall be submitted to the Division within 45 days (MM DD, 2012) of permit issuance, using form WTS-1B as a guide. The updated EMP must be stamped and signed by a Professional Engineer registered with the state of Nevada. The Permittee shall not reuse treated effluent prior to providing cross connection documentation per Part I.C.11. of the permit.

Procedures for Public Comment: The Notice of the Division's intent to reissue the 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** and the **Sparks Tribune** 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 publication of the public notice. All comments must be received by July 27, 2012. 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 determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

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

Proposed Determination: The Division has made the tentative determination to reissue the proposed permit for a period of five (5) years.

Rationale for Permit Requirements: Required parameters are monitored to ensure effluent reuse requirements are maintained per NAC 445A.275 and 445A.276.

Prepared by: Robert E. Wimer, Jr., E.I.
Bureau of Water Pollution Control
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