NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
FACT SHEET
(Pursuant to NAC 445A.148)

Permittee Name: Incline Village General Improvement District
893 Southwood Blvd
Incline Village NV 89451

Permit No. NEV30009

Facility: Incline Village Wastewater Reclamation Facility
1220 Sweetwater Rd
Incline Village NV 89451
Latitude: 39° 14' 19"
Longitude: 119° 55' 25"
Township 16N - Range 18E - Sections 23 & 24

Incline Village GID Wetlands
Latitude: 39° 04' 01" N
Longitude 119° 44' 48 “W

General: The Incline Village Wastewater Reclamation Facility treats residential and commercial wastewater generated within Incline Village and Crystal Bay of north Lake Tahoe in Nevada. Treated wastewater is pumped out of Lake Tahoe Basin to Carson Valley via a 21 mile pipeline that terminates at a constructed wetlands near Hot Springs Mountain, with laterals supplying effluent for irrigation purposes at Schneider Ranch in Jacks Valley (NEV98013) and Clear Creek Tahoe Golf Course (TNEV2009499) in Clear Creek Valley near Spooner Highway.

Most of the water discharged to the wetlands is lost to evapotransporation, with minor amounts of infiltration occurring in the more elevated areas. Douglas County's North Valley Wastewater Treatment Plant (NEV60025) may also discharge during certain times of the year.

The plant uses an activated sludge process with a rotating fine screen instead of primary sedimentation ahead of the aeration basins. Other process units include an aerated grit chamber, two secondary clarifiers, and sludge dewatering centrifuges. Sodium hypochlorite is used for disinfection prior to delivery into the export line. The digester is no longer used as the sludge is now trucked to Bently Agrowdynamics for production of Class A biosolids via composting under permit NEV97012.

Effluent is stored in a 0.5 Million gallon steel storage tank prior to being pumped into the export line. Two clay-lined earthen reservoirs with capacities of 2.4 and 13.5 million gallons provide additional effluent storage in the event of malfunctions or maintenance of the export line. The smaller reservoir is

accessed via gravity flow from the steel tank and is monitored by two vadose zone wells intended to intercept any leaks; none have been found.

Receiving Water Characteristics: Groundwater at the Wetlands Enhancement Facility is monitored by seven wells. Recent data shows TDS ranging from 800 to 2800 mg/l, and nitrate from non-detect to 0.78 mg/l. Three of these wells tap a geothermal reservoir with temperatures ranging from 74 to 104 °F.

Rational for Permit Requirements: The BOD and TSS limits are secondary standards applicable to the plant. Fecal coliform, phosphorus, nitrogen species, and total dissolved solids concentrations are tracked to facilitate effluent reuse, and the dissolved oxygen limit is intended to protect aquatic life in the wetlands. The effluent limitations and monitoring requirements from the permit are reprinted below.

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	30 Day Average	Daily Maximum	Sample Location(s)	Measurement Frequency	Sample Type
Inffluent Flow (MGD)	2.50	3.00	Influent Flume	Continuously	Meter
BOD_5 (mg/l)	M & R	M & R	Influent	Weekly	Composite
	30	45	Effluent		
TSS (mg/l)	M & R	M & R	Influent	Weekly	Composite
	30	45	Effluent		
Fecal Coliform (MPN/100ml)	23	240	Effluent	Weekly	Discrete
pH (S.U.)	6.0 to 9.0		Effluent	Weekly	Discrete
Total Nitrogen (mg/l)	M & R	M & R	Effluent	Weekly	Discrete
Total Phosphorus (mg/l)	M & R	M & R	Effluent	Weekly	Discrete
Dissolved Oxygen (mg/l)	Greater than or equal to 2.0 mg/l		Effluent at Wetlands outfall	Monthly	Discrete

Two vadose zone monitoring wells have been installed near the upper effluent storage pond at the plant site with the intention of intercepting any leaks that may develop; none have been found. Seven groundwater monitoring wells have been installed at the Wetlands Enhancement facility to detect any changes in nitrate concentrations; no impacts have been detected.

The groundwater monitoring requirements from the permit are reprinted below.

Groundwater Monitoring at the IVGID Wetlands

Groundwater monitoring wells 1 thru 6, and number 8 at the IVGID Wetlands shall be monitored Quarterly as follows:

Parameter	Limits	Frequency	Sample Type
Depth to Water Table –	M & R	Quarterly	Discrete
Groundwater Elevation -	M & R	Quarterly	Discrete
Total Nitrogen (mg/l)	10 mg/l	Quarterly	Discrete
Chloride (mg/l	M & R	Quarterly	Discrete
TDS (mg/l)	M & R	Quarterly	Discrete

If the Total Nitrogen as N level in any of the groundwater monitoring wells reaches within a range of 7.0 mg/l to 9.0 mg/l for two consecutive quarters, the City shall take corrective actions pursuant to prescribed procedures in a revised O&M Manual to prevent further groundwater contamination.

This shall include:

1. Assessment of basin lining seal integrity;
2. Feasibility plan for resealing basin lining.

If the Nitrogen as N levels reaches and maintains at 10.0 mg/l or above for two consecutive quarters, the permittee shall implement the construction of a relining project on the wetland basins.

All of the wells shall be fitted with locking caps.

Procedures for Public Comment: The Notice of the Division's intent to renew permit NEV30009, authorizing discharge of treated effluent from the Incline Village Wastewater Reclamation Facility to the Wetlands Enhancement Facility and irrigation use at Schneider Ranch and the Tahoe Golf Course is being sent to the **North Lake Tahoe Bonanza** and the **Reno Gazette Journal** for publication. The notice is being mailed to interested persons on our mailing list. The notice, this fact sheet, and draft permit are also posted on the Division's web site, at http://ndep.nv.gov/admin/public.htm. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline by which all written comments are to be postmarked or hand delivered to the Division is November 15, 2009.

A public hearing on the proposed determination can be requested by the applicant, any affected State or interstate agency, the Regional Administrator, or any interested agency, person, or group of persons. The request must be filed within the comment period and indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing the Administrator determines to hold 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 renew the proposed permit for a five year term.

Prepared by: Joseph Maez, P.E.
Bureau of Water Pollution Control
October 5, 2009