



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

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: WEBB RANCH
PO BOX 2279
FALLON, NV - 89407

Permit Number: NS2008501

Location: WEBB RANCH, CHURCHILL
500 NORCUTT LN / 1460 NORCUTT LN, FALLON, NV - 89406
LATITUDE: 39.342363, LONGITUDE: -118.770189
TOWNSHIP: T19N, RANGE: R29E, SECTION: S30

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	FIELDS	Land Application Site		FALLON	NV	89406	CHURCHILL	39.34	-118.75	GROUNDWATER
MW1	MONITORING WELL 1	Monitoring Well		FALLON	NV	89406	CHURCHILL	39.342363	-118.770189	GROUNDWATER
MW2	MONITORING WELL 2	Monitoring Well		FALLON	NV	89406	CHURCHILL	39.340369	-118.761671	GROUNDWATER
MW3	MONITORING WELL 3	Monitoring Well		FALLON	NV	89406	CHURCHILL	39.331011	-118.769009	GROUNDWATER

General:

The Applicant proposes to continue to land apply domestic septage, portable toilet fluid, and grease interceptor material to approximately 188 acres of nutrient deficient agricultural land located at Webb Ranch, 1460 Norcutt Lane, Fallon, Churchill County, Nevada, assessors parcel number 006-111-13, as well as approximately 32 acres of parcel 006-111-10, located at 500 Norcutt Lane. The Applicant has been authorized to land apply septage, portable toilet fluid, and grease interceptor material pumped by A-1 Septic, Allied Sanitation Service, Budget Septic Service, Bonanza Septic Service, Easy Rooter Plumbing, Shamrock Site Services, and Summit Plumbing and Septic Service at this site since July 5, 2007 under temporary permit TNEV2007519. This permit will also include material provided by Marshall's Septic Care, LLC.

The two parcels are zoned A-10, agricultural use area, with water rights. The fields have been laser leveled and will be irrigated between border/checks.

The septage must be screened to remove solids over 3/4-inch in size before the septage can be land applied. The septage must be incorporated into the soil within 6 hours of being land applied. A crop must be planted within one year of domestic septage application to uptake the nitrogen that is contained in the septage. The application rate of domestic septage will be based on the nitrogen needs of the crop planted; a nitrogen balance is required if other sources of nitrogen, manure, commercial fertilizer, effluent that has not been denitrified, etc., are used on fields that have received septage. Food crops cannot be grown for five years after septage application.

The permit authorizes the use of two 10,000-gallon steel, above-ground storage tanks to store the domestic septage during inclement weather and for storage when the incorporation equipment is not operational. The tanks must not be open to the atmosphere other than screened venting. Containment berms are required

around the storage tank(s).

Discharge Characteristics:

Only domestic septage, portable toilet fluid, and grease interceptor material may be land applied under this permit. No analysis of these materials is required. Portable toilet fluid must be land applied at one-sixth of the septage application rate. Grease interceptor material shall be mixed with domestic septage at a rate of one part grease interceptor material to a minimum of three parts domestic septage, by volume, prior to land application.

No industrial waste may be land applied.

Receiving Water:

The water tables in the lower end of the Lahontan Valley vary widely depending on the time of year. The water table could be as deep as 8 to 10 feet in the winter and as high as 3 to 6 feet in the summer when the rest of the Valley is irrigating their fields. The facility is at the northwest corner of the Carson Lake Pasture, which is basically the terminal end of the South Fork of the Carson River, thus these fields are very close to the lowest point in the Valley.

The groundwater quality was not analyzed and the Division has no data regarding the shallow groundwater quality in this area.

Summary of Changes From Previous Permit:

Material provided by Marshall's Septic Care, LLC will also be included in this permit.

Due to a new Permit naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV2008501 to NS2008501. This change does not reflect a change in the type of permit being issued. NEV and NS permits are for groundwater discharges to the State of Nevada. These are not to be confused with "NV" permits which are reserved for NPDES Permitting.

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well) To Be Reported Quarterly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Depth to water level ft below landsurface	Minimum	>= 3 Feet (ft)		Groundwater	MW1	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. If the depth to groundwater is 3.0 feet or less in any well, the Permittee shall immediately cease land application and not resume land application until the depth to groundwater exceeds 3.0 feet in all wells. The Permittee may exempt himself from a complete shutdown of the facility, if the Operations and Maintenance Manual contains an explanation of how the groundwater elevation can be verified in the individual fields. This may require the construction of additional wells.

Groundwater Monitoring Wells Table for Sample Location Mw2 (Monitoring Well) To Be Reported Quarterly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Depth to water level ft below landsurface	Minimum	>= 3 Feet (ft)		Groundwater	MW2	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. If the depth to groundwater is 3.0 feet or less in any well, the Permittee shall immediately cease land application and not resume land application until the depth to groundwater exceeds 3.0 feet in all wells. The Permittee may exempt himself from a complete shutdown of the facility, if the Operations and Maintenance Manual contains an explanation of how the groundwater elevation can be verified in the individual fields. This may require the construction of additional wells.

Groundwater Monitoring Wells Table for Sample Location Mw3 (Monitoring Well) To Be Reported Quarterly^[1]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Depth to water level ft below landsurface	Minimum	>= 3 Feet (ft)		Groundwater	MW3	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. If the depth to groundwater is 3.0 feet or less in any well, the Permittee shall immediately cease land application and not resume land application until the depth to groundwater exceeds 3.0 feet in all wells. The Permittee may exempt himself from a complete shutdown of the facility, if the Operations and Maintenance Manual contains an explanation of how the groundwater elevation can be verified in the individual fields. This may require the construction of additional wells.

Septage Limitations / Requirements for Sample Location 001 (Land Application Site) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Annual amount of sludge land applied	Annual Total	M&R Pounds per Year (lb/yr)		Beneficial Reuse	001	Annual	CALCTD

Special Conditions:

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

The application rate, in gallons of septage per acre per year, shall be based on the amount of nitrogen required by the planned crop and crop yield. The Applicant is planning to grow sudan grass at a design yield of 10 tons/acre and a nitrogen uptake rate of 325 pounds of nitrogen/acre/year at the site. If these cropping practices are continued, domestic septage may be applied at a maximum rate of 125,000 gallons per acre per year.

$$\text{gallons/acre} = \text{pounds of nitrogen required for crop yield} \div 0.0026$$

The 325 pounds of nitrogen per acre may be adjusted based on the recommendation of the Cooperative Extension Service or other cropping expert with local experience regarding crop nitrogen demand and yields.

Corrective Action Sites:

There are no Bureau of Corrective Actions sites within one mile of this land application site.

Wellhead Protection Program:

This facility is not within a Wellhead Protection Program or a Drinking Water Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	Within 180 days of permit issuance, the Permittee must submit for division review and approval two copies of a new Operations and Maintenance (O&M) manual, using form WTS-42 as guidance. The O&M manual shall be prepared and stamped by a Nevada Registered Professional Engineer or other Qualified Person. The new O&M Manual must address any additional material suppliers, and any additional application sites since the last O&M revision.	2/28/2014

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
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1	Quarterly Report	Quarterly	10/28/2013
2	Annual Report	Annually	1/28/2014

Procedures for Public Comment:

The Notice of the Division's intent to reissue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Lahontan Valley News, 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 until 5:00 P.M. **8/26/2013**, a period of 30 days following the date of the public notice. 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 of EPA Region IX 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.650.

Proposed Determination:

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Robert Wimer**

Date: **7/18/2013**

Title: **E.I.**