



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: BEST ENVIRONMENTAL, LLC
2430 ALMOND DRIVE
SILVER SPRINGS, NV - 89429

Permit Number: NS2014504

Location: BEST ENVIRONMENTAL, LLC, LYON
2430 ALMOND DRIVE, SILVER SPRINGS, NV - 89429
LATITUDE: 39.433255, LONGITUDE: -119.204249
TOWNSHIP: 18N, RANGE: 25E, SECTION: 17

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	DUST CONTROL, FIRE SUPPRESSION, & QUARRY PIT WASHING	Land Application Site		SILVER SPRINGS	NV	89429	LYON	39.433255	-119.204249	GROUNDWATER
MW1	MONITORING WELL MW-1	Monitoring Well		SILVER SPRINGS	NV	89429	LYON	39.433255	-119.204249	GROUNDWATER
MW2	MONITORING WELL MW-2	Monitoring Well		SILVER SPRINGS	NV	89429	LYON	39.433255	-119.204249	GROUNDWATER

General:

The Permittee, Best Environmental LLC, proposes to discharge treated wastewater for dust control, fire suppression, and quarry pit washing at its facility in Silver Springs, Lyon County, Nevada. The facility uses low-pressure steam to evaporate water from used lubricating oil. The water vapor is processed through a condenser, and the resultant wastewater is treated at an on-site wastewater treatment plant using a combination of dissolved air flotation, pressurized sand filtration, and activated carbon filtration. The facility has a design treatment capacity of 14 gallons per minute (gpm) and is permitted to treat and discharge up to 11 gpm.

Discharge Characteristics:

The discharge consists of treated wastewater from an oil recycling process. The discharge must meet the limits specified by the permit.

Receiving Water:

The receiving water is groundwater of the State underlying the reuse site. The depth to groundwater at the facility is not known. According to the State of Nevada Division of Water Resources Well Log Database, the static water level at several wells located within 1.4 miles of the facility ranges from 13-18 feet below ground surface. Groundwater in the Silver Springs area typically flows southeast towards the Lahontan Reservoir.

Summary of Changes From Previous Permit:

This is a new permit; therefore there are no changes.

Proposed Effluent Limitations:

The discharge shall be limited and monitored by the Permittee as specified below:

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well Mw-1) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW1	Quarterly	VISUAL
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	Quarterly Maximum		<= 1.0 Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT
Oil & grease	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Sample and report purgeable and extractable TPH. Report the full range of hydrocarbons, C6-C40, using EPA Method 8015B and 8260B or equivalent methods, and report all parameters.

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well Mw-1) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Benzene	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Toluene	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Ethylbenzene	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT
Xylene	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw2 (Monitoring Well Mw-2) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW2	Quarterly	VISUAL
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	Quarterly Maximum		<= 1.0 Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT
Oil & grease	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Sample and report purgeable and extractable TPH. Report the full range of hydrocarbons, C6-C40, using EPA Method 8015B and 8260B or equivalent methods, and report all parameters.

Groundwater Monitoring Wells Table for Sample Location Mw2 (Monitoring Well Mw-2) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Benzene	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Toluene	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Ethylbenzene	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT
Xylene	Value		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual	DISCRT

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Oil & grease	30 Day Average		<= 10 Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	DISCRT
Flow rate	Daily Maximum	<= 15840 Gallons per Day (gal/d) ^[1]		Prior to Reuse	001	Continuous	METER
Flow rate	30 Day Average	M&R Gallons per Day (gal/d)		Percent Removal	001	Continuous	METER
pH, minimum	Monthly Minimum		>= 6.5 Standard Units (SU)	Prior to Reuse	001	Monthly	DISCRT
pH, maximum	Monthly Maximum		<= 8.5 Standard Units (SU)	Prior to Reuse	001	Monthly	DISCRT
Hydrocarbons, total petroleum ^[2]	Daily Maximum		<= 1.0 Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	DISCRT
Hydrocarbons, total petroleum ^[2]	30 Day Average		<= 1.0 Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	DISCRT
Oil & grease	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. 15,840 gallons per day is equal to 11 gallons per minute.
2. Sample and report purgeable and extractable TPH. Report the full range of hydrocarbons, C6-C40, using EPA Method 8015B and 8260B or equivalent methods, and report all parameters.

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Ethylbenzene	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Prior to Reuse	001	Quarterly	DISCRT
Benzene	Daily Maximum		<= 5 Micrograms per Liter (ug/L)	Prior to Reuse	001	Quarterly	DISCRT
Toluene	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Prior to Reuse	001	Quarterly	DISCRT
Xylene	Daily Maximum		<= 200 Micrograms per Liter (ug/L)	Prior to Reuse	001	Quarterly	DISCRT

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Annually^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Alkalinity, bicarbonate (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Alkalinity, total (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Aluminum, total (as Al)	Daily Maximum		<= .2 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		<= .006 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		<= .01 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		<= 2 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Beryllium, total (as Be)	Daily Maximum		<= .004 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Cadmium, total (as Cd)	Daily Maximum		<= .005 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		<= 400 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		<= .1 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
			<= 1				

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Annually^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Copper, total (as Cu)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		<= 4 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Iron, total (as Fe)	Daily Maximum		<= .6 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Lead, total (as Pb)	Daily Maximum		<= .015 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		<= 150 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		<= .1 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Mercury, total (as Hg)	Daily Maximum		<= .002 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Nickel, total (as Ni)	Daily Maximum		<= .1 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Phosphorus, total (as P)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
			M&R				

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Annually^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Potassium, total (as K)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Selenium, total (as Se)	Daily Maximum		<= .05 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		<= .1 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Sulfate, total (as SO ₄)	Daily Maximum		<= 500 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		<= .002 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		<= .2 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Zinc, total (as Zn)	Daily Maximum		<= 5 Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT

Notes (Re-use Discharge Limitations Table):

1. The Permittee shall submit the results of an annual profile 1 analysis with the fourth quarter report.

Rationale for Permit Requirements:

Benzene, toluene, ethylbenzene, and xylene are limited to prevent degradation of the underlying groundwater as a result of reuse activities.

Flow rate is limited to prevent over-application, runoff, and ponding of the discharge.

Oil & grease are limited to prevent degradation of the underlying groundwater as a result of reuse activities.

pH is limited to the secondary treatment range for the use of treated effluent specified by NAC 445A.275.

An annual *profile 1 analysis* is required to monitor the concentration of certain inorganic parameters and heavy metals that may be present in the discharge in order to prevent degradation of the underlying groundwater.

Total petroleum hydrocarbons are limited to prevent degradation of the underlying groundwater as a result of reuse activities.

The groundwater is monitored quarterly at one upgradient well and one downgradient well to ensure that the groundwater is not being negatively impacted by the permitted discharge.

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	Quarterly sampling of each monitoring well (MW-1 and MW-2) shall begin within 30 days of well completion.
2	Effluent Odors: There shall be no objectionable odor from the industrial wastewater accumulation, storage treatment or disposal facilities. In keeping with NAC 445B.22087 Odors , any complaints regarding objectionable odors should be directed to the Bureau of Air Pollution Control.

Flow:

The daily maximum flow rate is less than or equal to 11 gpm.

Corrective Action Sites:

There are no Bureau of Corrective Actions remediation sites located within one mile of the facility.

Wellhead Protection Program:

The facility is not located within a Drinking Water Protection Area or a Wellhead Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit a new Effluent Management Plan (EMP) prepared in accordance with guidance document <i>WTS-1B: General Criteria For Preparing An Effluent Management Plan</i> . The EMP shall be prepared and wet-stamped by a Nevada Registered Professional Engineer.	3/1/2016
2	The Permittee shall submit a new Operation and Maintenance (O&M) Manual prepared in accordance with guidance document <i>WTS-2: Minimum Information Required For An Operation And Maintenance Manual</i> .	3/1/2016
3	The Permittee shall submit to the Division for review, a plan for the installation of two (2) new monitoring wells (MW-1 and MW-2) on the land application site.	3/1/2016
4	The Permittee shall install the new monitoring wells (MW-1 and MW-2) on the land application site. The monitoring wells shall be constructed in accordance with "WTS-4: Guidance Document for the Design and Construction of Groundwater Monitoring Wells" (NDEP, Revised July 2012).	5/1/2016
5	The Permittee shall submit a copy of the well log and as-built drawings for each of the completed monitoring wells (MW-1 and MW-2).	6/1/2016

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	4/28/2016
2	Annual Report	Annually	1/28/2017

Procedures for Public Comment:

The Notice of the Division's intent to issue 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 **Reno Gazette Journal, Mason Valley News** 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. **11/16/2015**, 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.605.

Proposed Determination:

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

Prepared by: **Alan Pineda**

Date: **10/6/2015**

Title: **Staff I Associate Engineer**