

C. Receiving Water Characteristics

Groundwater sampling at this site has demonstrated the presence of BTEX and MTBE in excess of the State and Federal action levels.

Depth to ground water is 11 to 14 feet across the project site. The aquifer that will be affected by injection at this site is the near surface aquifer. It is unlikely the first drinking water aquifer will be affected by injection activities because of the presence of impermeable soils between the near surface aquifer and the first drinking water aquifer.

The geology encountered during well construction at the site consists of valley fill material composed of silty sand, silty clay, and caliche. The depth to ground water is approximately 13.5 feet bgs. The groundwater generally flows to the east.

D. Procedures for Public Comment

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to ground water of the State of Nevada was sent to the Las Vegas Review Journal on June 16, 2009. The notice was mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit may do so for a period of 30 days following the date of the public notice.

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.

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 will 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 445.274.

E. Proposed Determination

The Division has made the tentative determination to issue the proposed permit.

F. Proposed Effluent Limitations and Special Conditions

Table 1

PARAMETER	FREQUENCY	LOCATION	LIMITATIONS
Injectate Flow Rate	Total monthly, calculate Average daily	Effluent to IW-1 and IW-2	Monitor and Report; if more than 6,000 gal/day for more than 3 days, notify UIC program

Hydrogen Peroxide: Rate & Volume of application	Total monthly and Average daily	H2O2 / stenner pump	Not to exceed 25 gallons per day
UIC Sample List 3 – Organics (attached)	Day 1 & 30 of pumping / injection	Influent sample, before GAC canisters	Monitor and Report
UIC Sample List 3 – Organics (attached)	Quarterly – “if any values above detection level for influent on Day 1 or 30 sample other than BTEX and MTBE”	Effluent, after last GAC canister	Not to exceed Drinking Water Standards
Benzene, Toluene, Ethyl benzene, total Xylenes (BTEX), and Methyl Tertiary Butyl Ether (MTBE)	Monthly	Effluent, after last GAC canister	Not to exceed Drinking Water Standards
Groundwater Elevation (amsl) and Depth to Groundwater	Quarterly	All on-site monitoring and injection wells	Monitor and Report, MW-2 water level shall not rise to within three (3) feet of surface.

G. Rationale for Permit Requirements

The permit conditions will help to ensure that the injectate does not adversely affect the existing water quality or hydrologic regime.

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