

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(Pursuant to NAC 445A.236)

Permittee: Conoco Phillips Company
1230 W Washington Ste 212
Tempe AZ 85281

Permit No.: NV0023094

Facility: Union 76 Service Station No. 4616
530 N Las Vegas Blvd
(SE corner of Las Vegas Blvd and Bonanza Rd)
Las Vegas, Clark County
Latitude: 36° 10' 29" North
Longitude: 115° 08' 10" West
T20S R61E S27

General: Union 76 Store # 4616 is a self service gas station with groundwater contamination due to a leaking underground storage tank system. Extraction wells feed an air stripper with shallow groundwater for treatment and discharge to Las Vegas Wash via the adjacent storm drain on Las Vegas Blvd. Discharge flow rate is minimal, at about 0.07 gpm (100 gpd).

Receiving Water Characteristics: Water quality standards for this reach of Las Vegas Wash are set at the nearest downstream control point, "Las Vegas Wash at Telephone Line Road", NAC 445A.199. From the control point, the TDS standard is 1900 mg/l and the total inorganic nitrogen standard is 20 mg/l. In addition, Total Maximum Daily Loads (TMDLs) for Las Vegas Wash have been established for total phosphorus and total ammonia.

Rational for Permit Requirements: Please see Table I.A.1 below. The flow limit has been set at the Permittee's request and is within the design capacity of the air stripper. The limits for benzene, toluene, total xylenes, ethylbenzene, MTBE (methyl tert-butyl ether), and TPH (total petroleum hydrocarbons) have been set at levels previously established by the Division for general use in discharge permits. The total inorganic nitrogen limit is taken from the water quality standard for Las Vegas Wash. The rest of the parameters (ammonia, total phosphorus, total dissolved solids (TDS), pH, and volatile organic compounds) are subject to monitoring requirements without concentration limits. Ammonia and total phosphorus are included due to the existence of the TMDL, TDS in response to long standing salinity issues in the Colorado River, pH as an indicator of extreme conditions, and the annual influent VOC scan and full range TPH analysis as a check on any changes in plume characteristics.

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Fact Sheet**

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Table I.A.1

Parameter	Discharge Limitations		Monitoring Requirements		
	30 Day Avg	Daily Maximum	Location	Frequency	Sample Type
Flow, gpm	10	20	effluent	continuous	meter
Benzene, µg/l	-	5	effluent	monthly	discrete
Toluene, µg/l	-	100	effluent	monthly	discrete
Ethylbenzene, µg/l	-	100	effluent	monthly	discrete
Total Xylenes, µg/l	-	200	effluent	monthly	discrete
Methyl tert-butyl ether, µg/l	-	20	effluent	monthly	discrete
TPH ¹ , mg/l	-	1	effluent	monthly	discrete
Total Inorganic Nitrogen, mg/l	-	20	effluent	quarterly	discrete
Ammonia as Nitrogen, mg/l	-	monitor & report	effluent	quarterly	discrete
Total Phosphorus, mg/l	-	monitor & report	effluent	quarterly	discrete
Total Dissolved Solids, mg/l	-	monitor & report	effluent	quarterly	discrete
pH, standard units	-	monitor & report	effluent	quarterly	discrete
TPH ¹ mg/l	-	monitor & report	influent	annual ³	discrete
VOCs ² , µg/l	-	monitor & report	influent	annual ³	discrete

Notes:

1. Total petroleum hydrocarbon, purgable + extractable ranges
2. Volatile organic compounds by EPA Method 8260, report all parameters.
3. Annual samples shall be collected in the fourth quarter.

Schedule of Compliance: The facility is required to meet the effluent limitations upon issuance of the permit.

Procedures for Public Comment: Notice of the Division's intent to renew discharge permit NV0023094, authorizing a groundwater remediation discharge to the storm drain at Union 76 # 4616 at 530 N Las Vegas Blvd, is being sent to the **Las Vegas Review Journal**

