

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
FACT SHEET
(pursuant to NAC 445A.236)

Permittee Name: Chevron Texaco
145 S. State College Blvd.
P. O. Box 2292
Brea, CA 92822-2292

Permit Number: NV0023353

Location: Former Chevron Station #9-7753
2450 East Bonanza Road
Corner of Bonanza Road and Eastern Avenue
Las Vegas, NV 89101
Latitude: 36° 10' 25" N
Longitude: 115° 06' 56" W
Township 20S, Range 61E, Section 35 MDB&M

General:

Chevron Texaco Products Company operated a gasoline service station located at the southwest corner of Bonanza Road and Eastern Avenue in Las Vegas, Clark County, Nevada. Leaking underground storage tanks (USTs) and ancillary piping have caused the groundwater below the site to be contaminated with hydrocarbon products. Chevron Texaco has applied for both temporary and NPDES permits to remediate the impacted groundwater, and discharge the treated fluid to the Las Vegas Wash, via the Clark County storm drain system. NDEP issued the temporary permit in October 2004.

The NPDES permit application requested construction of a remediation system comprised of the following components. A pit well and interceptor trench will collect affected groundwater, which then will be pumped to two—2,800 gallon polyethylene holding tanks. The fluid will then be processed through two bag filters, and then through two activated carbon vessels, each containing 2,000 pounds of activated carbon. The system has a design capacity of 15 gallons per minute (21,600 gallons per day), and will be operated at a rate of approximately 10 gallons per minute. The treated water will be discharged to a stormdrain located at the north side of the site.

Discharge Flow and Characteristics

The facility was constructed in late January 2005, but due to construction issues encountered during the term of the temporary permit, was not operational until late March 2005. During First Quarter 2005, the system was operated under the temporary permit for a total of seven (7) days. The monitoring required under the temporary permit yielded the following discharge characteristics.

PARAMETER	TEMPORARY PERMIT LIMITS	OPERATING PERIOD 03/24/05 thru 03/30/05
Flow Rate	0.0216 MGD	0.0026
Benzene	5 µg/l	<1.0
Toluene	100 µg/l	<2.0
Ethylbenzene	100 µg/l	<2.0
Total Xylenes	200 µg/l	<3.0
Total Petroleum Hydrocarbons	1.0 mg/l	<0.20
MTBE	20 mg/l	<5.0
pH	6.5 to 9.0 Standard Units	7.44
Total Nitrogen	20 mg/l	<0.50
Total Phosphorus (mg/l)	Monitor and Report	0.91
Total Dissolved Solids (mg/l)	Monitor and Report	3,000
Nitrate as Nitrogen (mg/l)	Monitor and Report	<0.10

Receiving Water Characteristics:

The dewatering system discharges into a Clark County stormdrain inlet, which eventually discharges to the Upper Las Vegas Wash. Water quality standards for the Upper Las Vegas Wash are specified in NAC 445A.199. The requirements to maintain existing higher quality waters apply.

Proposed Effluent Limitations and Special Conditions:

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	30-Day Average	Daily Maximum	Sample Location	Measurement Frequency	Sample Type
Flow	---	0.0216 MGD	i.	Continuous	Flow Meter
Total Petroleum Hydrocarbons	Monitor & Report	1 mg/l 0.1802 lbs/day	ii.	Monthly	Discrete
Benzene	Monitor & Report	5 µg/l 0.0009 lbs/day	ii.	Monthly	Discrete
Toluene	Monitor & Report	100 µg/l 0.0180 lbs/day	ii.	Monthly	Discrete
Ethylbenzene	Monitor & Report	100 µg/l 0.0180 lbs/day	ii.	Monthly	Discrete
Total Xylenes	Monitor & Report	200 µg/l 0.0360 lbs/day	ii.	Monthly	Discrete
Methyl Tertiary Butyl Ether (MTBE)	Monitor & Report	20 µg/ 0.0036 lbs/day	ii.	Monthly	Discrete
Total Inorganic Nitrogen	Monitor & Report	20 mg/ 3.604 lbs/day	ii.	Monthly	Discrete
Total Dissolved Solids	Monitor & Report	1900 mg/l 342.44 lbs/day	ii.	Monthly	Discrete
Total Phosphorus	Monitor & Report	Monitor & Report 1.0 lb/day	ii.	Monthly	Discrete
Nitrate as N (mg/l)	Monitor & Report		ii.	Monthly	Discrete
pH, (Standard Units)	6.5 - 9.0		ii.	Monthly	Discrete
Temperature of Las Vegas Wash (ΔT °C)	0		iii.	Monthly	Discrete, Calculation

- i. The final discharge totalizing flow meter, located on the second carbon column (C-2) discharge line; and
- ii. The sampling port located on the C-2 discharge line.
- iii. Temperature measured at points 10 feet above and 10 feet below stormdrain discharge point.

Where: MGD: Million gallons per day.
 mg/l: Milligrams per liter.
 µg/l: Micrograms per liter.

Notes:

- a. Monitor and record total discharge flow via flow meter recorder and report on a quarterly basis during the term of this permit.
- b. Samples must be collected, as nearly as possible, at the same time of day.

Rationale for Permit Requirements:

The flow limit has been set at the Permittee's request and is within the design capacity of the treatment system. The limits for Benzene, Toluene, Xylene, Ethylbenzene, Methyl Tertiary Butyl Ether (MTBE) and Total Petroleum Hydrocarbon (TPH) have been set at levels previously established by the Division for general use in discharge permits (Memo, "BTXE Limits for Remediation Projects", 1991). The discharge limits for the facility are consistent with the requirements for maintaining higher water quality, as stated in NAC445A.199. Total Phosphorus is limited at de minimus amounts to ensure Total Maximum Daily Load (TMDL) of the Las Vegas Wash for this constituent is not impacted. The Permittee is required to monitor discharge to ensure that the receiving water (Upper Las Vegas Wash) is not degraded from dewatering and treatment at the site.

Schedule of Compliance:

The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications that the Administrator may make in approving the schedule of compliance

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. Within thirty (30) days of the effective date of the permit, the Permittee shall submit an Operations and Maintenance Manual **stamped by a Nevada licensed Professional Engineer** to the Division for review and approval. This document shall include all relevant sampling, maintenance and BMP (good housekeeping) procedures employed during the term of this permit. The O&M Manual shall be submitted for review to the following address:

Mr. Nadir Sous, Supervisor
Nevada Division of Environmental Protection
Bureau of Water Pollution Control
1771 E. Flamingo Road, Suite 121-A
Las Vegas, NV 89119

A copy of the final approved O&M Manual shall also be sent to

Ms. Diana Silsby, Compliance Coordinator
Nevada Division of Environmental Protection
Bureau of Water Pollution Control
901 S. Stewart Street
Carson City, Nevada 89706

Procedures for Public Comment:

The Notice of the Division's intent to issue an NPDES permit authorizing this facility to discharge into the stormdrain for a five-year period, subject to the conditions contained within the permit, is being sent to the **Las Vegas Review-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 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 date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **July 20, 2005 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator 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 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 issue the proposed NPDES discharge permit for a period of five (5) years

Prepared by: Janine O. Hartley
Staff Engineer II
April 2005
May 2005