State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
320 West 4th Street, Suite 200, Los Angeles
FACT SHEET
WASTE DISCHARGE REQUIREMENTS
FOR
CHEVRON EMC
(Former UNOCAL Station NO. 6990)
NPDES NO. CAG994004
CI-8365

FACILITY LOCATION	**FACILITY MAILING ADDRESS**
20000 Bloomfield Avenue	145 S. State College Boulevard
Cerritos, CA 90703	Brea, CA 92821

PROJECT DESCRIPTION

Chevron EMC (Discharger) operates a groundwater treatment system at 20000 Bloomfield Avenue, Cerritos (See Figure 1 for the site location). The primary contaminants in groundwater at the site include total petroleum hydrocarbons, benzene, and tertiary butyl alcohol. The treatment system consists of sand filters, bag filters, and three granulated activated carbon (GAC) vessels connected in series (See Figure 2 for treatment process). Further treatment may be necessary to ensure that the concentrations of heavy metals in the discharge remain below the effluent limitations. Currently, the treated groundwater from the site is discharged into a nearby storm drain under the General NPDES Permit No. CAG834001, Order No.R4-2002-0125.

On June 21, 2007, the Discharger submitted a completed Notice of Intent (NOI) Form to continue enrollment under the general NPDES permit. Regional Board staff has reviewed the NOI submittals and determined that the discharge from the site is more appropriately regulated under NPDES Permit No. CAG994004, Order No. R4-2003-0111. The existing enrollment under NPDES Permit No. 834001, Order No. R4-2002-0125 will be terminated in a separate letter. Order No. R4-2003-0111 supersedes Order No. R4-2002-0125 and continues the facility enrollment under the general NPDES permit.

VOLUME AND DESCRIPTION OF DISCHARGE

Approximately 15,000 gallons per day of treated groundwater is discharged from the site to Discharge Point 1 (Latitude 33°50'54", Longitude 118°03'45"). The discharge flows into Coyote Creek, a water of the United States.

APPLICABLE EFFLUENT LIMITATIONS

Based on the information provided in the NPDES Application Supplemental Requirements, the following constituents listed in the Table below have been determined to show reasonable potential to exist in the discharge. The receiving waterbody for the discharge, Coyote Creek, has designated beneficial use of MUN (Potential). Therefore, the discharge

limitations under the "Other Waters" column in Section E.1.a. and b. of Order No. R4-2003-0111 apply to the discharge. The discharge limitations in Attachment B of Order No. R4-2003-0111 are not applicable to the discharge.

This Table lists the specific constituents and effluent limitations applicable to the discharge.

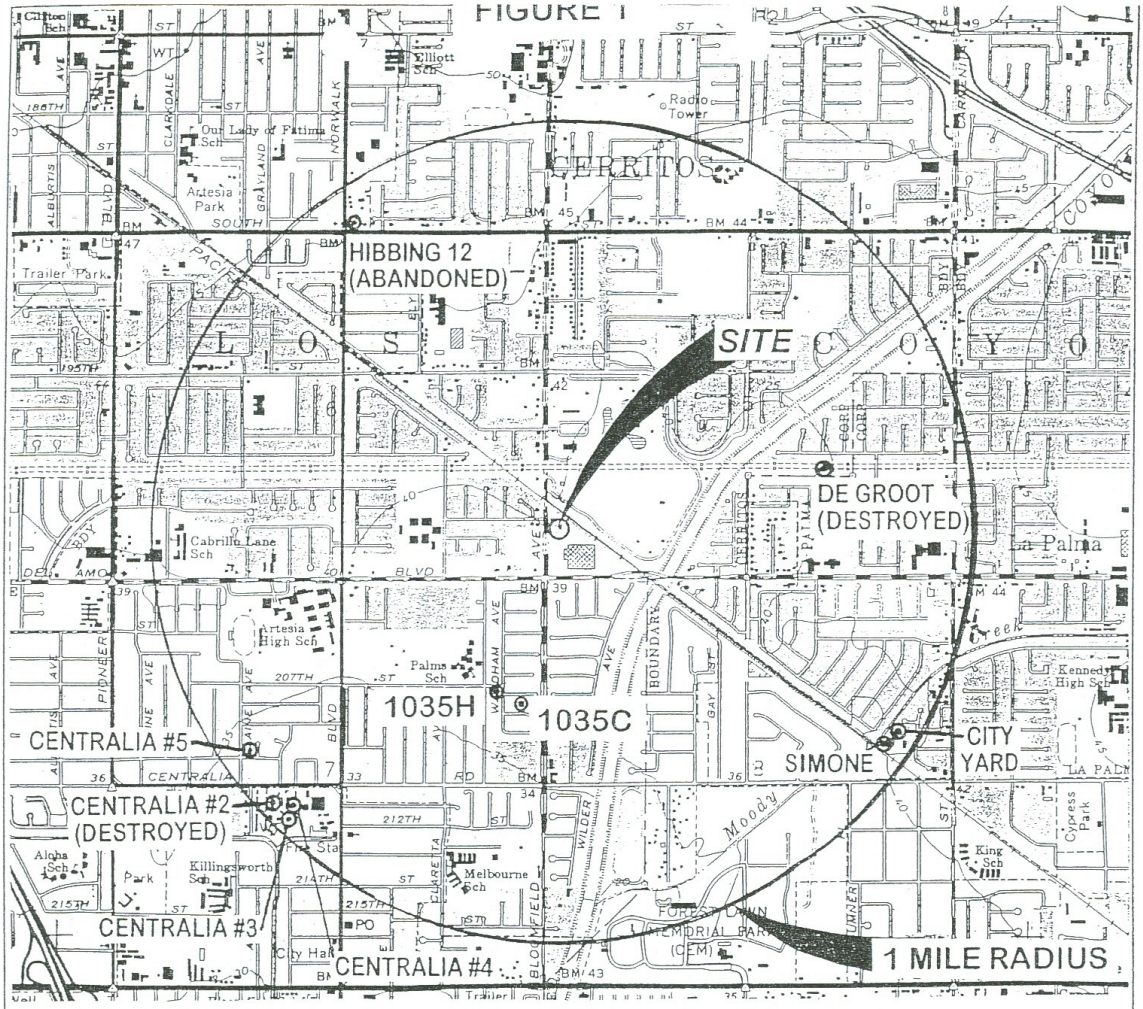
Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
Total Suspended Solids	mg/L	150	50
Turbidity	NTU	150	50
BOD_5 20°C	mg/L	30	20
Oil and Grease	mg/L	15	10
Settleable Solids	ml/L	0.3	0.1
Sulfides	mg/L	1.0	---
Residual Chlorine	mg/L	0.1	---
Total Petroleum Hydrocarbons	ug/L	100	---
Benzene	ug/L	1.0	---
Toluene	ug/L	150	---
Xylenes	ug/L	1750	---
Ethylbenzene	ug/L	700	---
Naphthalene	ug/L	21	---
Methyl tertiary butyl ether (MTBE)	ug/L	5.0	5.0
Tertiary butyl alcohol (TBA)	ug/L	12	12
Copper	ug/L	44.4	22.1
Lead	ug/L	25.6	12.8
Methylene Blue Active Substances (MBAS)	mg/L	0.5	---

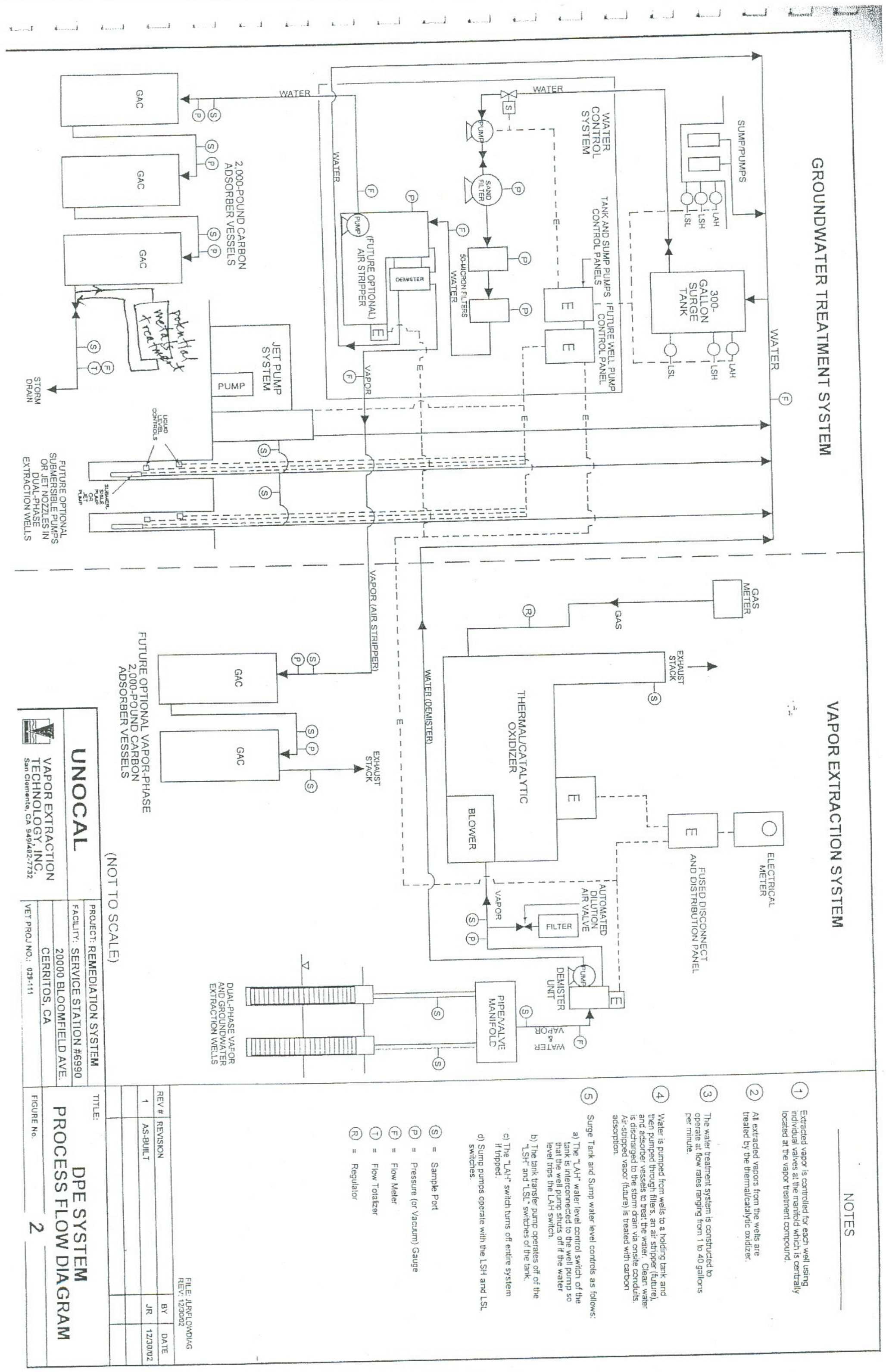
FREQUENCY OF DISCHARGE

The treated groundwater discharge is intermittent and will last for the duration of the treatment system operation.

REUSE OF WATER

It is not economically feasible to haul all the wastewater to off-site disposal facility. The property and the immediate vicinty have no landscaped areas that require irrigation using the groundwater. There are no other feasible reuse options for the discharge. Therefore, the treated wastewater will be discharged to Coyote Creek in compliance with the requirements of the attached order.


HIBBING 12
(ABANDONED)
SITE
DE GROOT
(DESTROYED)
1035H
1035C
CENTRALIA #5
CENTRALIA #2
(DESTROYED)
CENTRALIA #3
CENTRALIA #4
CITY
YARD
SIMONE
1 MILE RADIUS
CERRITOS
LOS
COYOTE
SCALE 1:24 000
1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER
CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
CALIF
QUADRANGLE LOCATION
FROM LOS ALAMITOS
USGS 7.5 MINUTE QUADRANGLE MAP
1964, PHOTOREVISED 1981
FORMER UNOCAL SS#6990
20000 BLOOMFIELD AVENUE
CERRITOS, CA
VET PROJ. 029-111
FIGURE No. 1
SITE LOCATION SHOWING
NEARBY PRODUCTION WELLS
Vapor Extraction Technology, Inc.


GROUNDWATER TREATMENT SYSTEM
VAPOR EXTRACTION SYSTEM
NOTES
300-GALLON SURGE TANK
WATER CONTROL SYSTEM
2,000-POUND CARBON ADSORBER VESSELS
GAC
JET PUMP SYSTEM
STORM DRAIN
THERMAL/CATALYTIC OXIDIZER
BLOWER
EXHAUST STACK
GAS METER
ELECTRICAL METER
FUTURE OPTIONAL VAPOR-PHASE 2,000-POUND CARBON ADSORBER VESSELS
(NOT TO SCALE)
UNOCAL
VAPOR EXTRACTION TECHNOLOGY, INC.
PROJECT: REMEDIATION SYSTEM
FACILITY: SERVICE STATION #6990
20000 BLOOMFIELD AVE.
CERRITOS, CA
TITLE:
DPE SYSTEM PROCESS FLOW DIAGRAM
FIGURE No. 2