

**State of California**  
**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
**LOS ANGELES REGION**  
**320 West 4th Street, Suite 200, Los Angeles**  
**REVISED FACT SHEET**  
**WASTE DISCHARGE REQUIREMENTS**  
**FOR**  
**MONTROSE CHEMICAL CORPORATION OF CA**  
**(Pilot Groundwater Extraction Test Project,**  
**Former Montrose Facility & Montrose-Del Amo Superfund Sites)**

**NPDES NO. CAG994004**  
**CI-8819**

**FACILITATION LOCATION**

Normandie Ave. & 204<sup>th</sup> St.; Royal Blvd. &  
210<sup>th</sup> St.; Normandie Ave. & 212<sup>th</sup> St.;  
Vermont Ave. & 214<sup>th</sup> St.; Menlo Ave. &  
213<sup>th</sup> ST., Los Angeles , CA 90502

**FACILITY MAILING ADDRESS**

600 Eriksen Avenue NE, # 380  
Bainbridge Island, WA 98110

**PROJECT DESCRIPTION**

Montrose Chemical Corporation of CA (Montrose) has been conducting a pilot groundwater extraction test project in the vicinity of the former Montrose facility located at 20201 South Normandie Avenue, Los Angeles. After completion of the subject project, Montrose will design a full scale groundwater remediation system for the subject sites. The contaminated groundwater is treated by passing it through a liquid phase granular activated carbon adsorption system to remove volatile organics. Additionally, solid filtration units will be utilized to reduce solids loading into the carbon system. If needed, additional equipment may be utilized for metals treatment prior to discharge of the treated groundwater to the storm drains under the General NPDES Permit CAG994004, Order No. R4-2008-0032. On August 20, 2009, Montrose submitted a letter, requesting to modify the general permit to enable Montrose to add three additional outfalls for discharging treated groundwater from four groundwater injection wells to nearby storm drains. This Fact Sheet is being revised to include the coverage under the general NPDES Permit for discharge of treated groundwater from three additional outfalls, namely, M-007 (Outfall 7), M-008 (Outfall 8), and M-009 (Outfall 9).

**VOLUME AND DESCRIPTION OF DISCHARGE**

Up to 600,000 gallons per day of treated groundwater is discharged to two storm drain outfalls :

<u>Discharge Point</u>	<u>Latitude</u>	<u>Longitude</u>
M-001 (Outfall 1A)	33°50'30"	118°17'58"
M-002 ( Outfall 2A)	33°50'23"	118°17'41"

September 10, 2009

Up to 192,000 gallons per day of untreated groundwater is discharged to two storm drain outfalls:

<u>Discharge Point</u>	<u>Latitude</u>	<u>Longitude</u>
M-003 (Outfall 3A)	33°50'04"	118°17'25"
M-004 (Outfall 4)	33°50'08"	118°17'26"

Up to 400,000 gallons per day of treated groundwater is discharged to two storm drain outfalls:

<u>Discharge Point</u>	<u>Latitude</u>	<u>Longitude</u>
M-005 (Outfall 5)	33°50'20"	118°17'28"
M-006 (Outfall 6)	33°50'30"	118°17'58"

Up to 600,000 gallons per day of treated groundwater is discharged to two storm drain outfalls:

<u>Discharge Point</u>	<u>Latitude</u>	<u>Longitude</u>
M-007 (Outfall 7)	33°50'51"	118°18'32"
M-008 (Outfall 8)	33°50'50"	118°17'25"

Up to 400,000 gallons per day of treated groundwater is discharged to one storm drain outfall:

<u>Discharge Point</u>	<u>Latitude</u>	<u>Longitude</u>
M-009 (Outfall 9)	33°50'31"	118°17'23"

All outfalls drain to Dominguez Channel, a water of the United States. The site location map and the schematic of waste flow diagram are shown as Figures 1 and 2, respectively. At no time, should the cumulative discharge rate from the project exceed one million gallons (mgd) per day.

## **APPLICABLE EFFLUENT LIMITATIONS**

Based on the information provided in the NPDES Application Supplemental Requirements, the following constituents in the Table below have been determined to show reasonable potential to exist in the discharge. The groundwater discharged from the project flows into Dominguez Channel. Therefore, the discharge limitations specified in Attachment B 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 <sub>5</sub> 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	---
Phenols	mg/L	1.0	---
Residual Chlorine	mg/L	0.1	---
Methylene Blue Active Substances (MBAS)	mg/L	0.5	---
<b>Volatile organic Compounds</b>			
1,2-Dichloroethane	µg/L	0.5	---
1,4-Dichlorobenzene	µg/L	5.0	---
Chlorobenzene	µg/L	30	---
Benzene	µg/L	1.0	---
Ethylbenzene	µg/L	700	---
Naphthalene	µg/L	21	---
Trichloroethylene	µg/L	5.0	---
Tetrachloroethylene	µg/L	5.0	---
<b>Metals</b>			
Antimony	µg/L	6.0	---
Arsenic	µg/L	50	---
Chromium III	µg/L	50	---
Chromium VI	µg/L	16	---
<b>Pesticides</b>			
4,4'-DDT	µg/L	0.0012	0.00059
4,4'-DDD	µg/L	0.0017	0.00084
4,4'-DDE	µg/L	0.0012	0.00059
alpha-BHC	µg/L	0.026	0.013
beta-BHC	µg/L	0.092	0.046
Heptachlor	µg/L	0.00042	0.00021

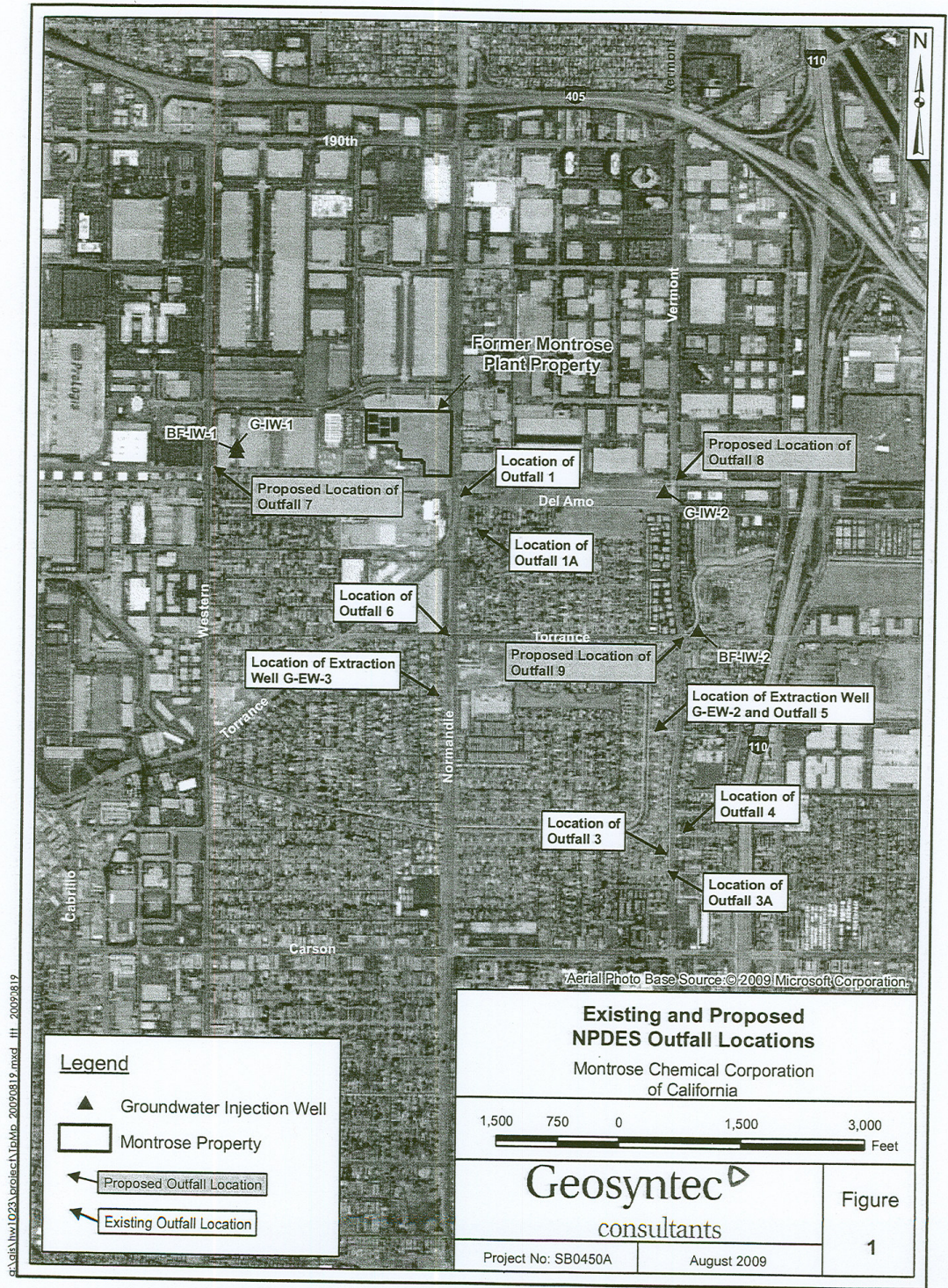
**FREQUENCY OF DISCHARGE**

The discharge of groundwater is intermittent.

**REUSE OF WATER**

Small portion of the treated groundwater will be transported to an off-site facility for disposal. It is not economically feasible to haul all the groundwater for off-site disposal. Due to the

large volume of groundwater that will be generated, it is not feasible to discharge the water to the sanitary sewer system. There are no other feasible reuse options for the discharge. Therefore, most of the treated and/or untreated groundwater will be discharged to the storm drains in compliance with the requirements of the attached order.



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**HARGIS + ASSOCIATES, INC**  
Hydrogeology/Engineering

NOTES: 1. MODIFICATIONS MAY BE MADE AS REQUIRED WITH REVIEW  
OF ADDITIONAL DATA TO ENSURE COMPLIANCE WITH PROCESS REQUIREMENTS.  
2. METALS TREATMENT VESSEL WILL BE USED ON AN AS-NEEDED BASIS.

**FIGURE 2. PILOT EXTRACTION TREATMENT SYSTEM  
PROCESS FLOW DIAGRAM**

7/08 RPT NO. 857-509 560-0257 A

