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
CALIFORNIA DEPARTMENT OF TRANSPORTATION
(Solstice Canyon Creek Culvert Construction Project)
NPDES NO. CAG994004
CI-9222

FACILITY LOCATION
State Route 1 at Solstice Cyn Creek
Malibu, CA 90265

FACILITY MAILING ADDRESS
100 S. Main Street, 12th Floor
Los Angeles, CA 90012

PROJECT DESCRIPTION

California Department of Transportation (Cal Trans) proposes to lower the culvert currently in place to allow Solstice Canyon Creek to reach the Pacific Ocean under State Route 1 in Malibu, California. The culvert will be lowered to allow fish to traval upstream. Dewatering is anticipated during the construction project. Up to 28,800 gallons per day (gpd) of treated groundwater will be discharged during approximately 60 days of construction Groundwater will be stored in a settling tank to settle sediments. The groundwater then will be passed through polymer resin columns to remove heavy metals and then through activated carbon vessels for polishing. The treated groundwater will be tested prior to discharge to the creek.

VOLUME AND DESCRIPTION OF DISCHARGE

It is estimated that up to 28,800 gpd of treated groundwater will be discharged to Solstice Canyon Creek at Latitude 34°01'60", Longitude 118°44'34", thence to a Miscellaneous Coastal Stream which flows to the Pacific Ocean, 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.

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 treated groundwater discharged from the project site flows into a miscellaneous coastal stream, thence to the Pacific Ocean. Therefore, discharge limitations under "Other Water" column in Part E.1.a. and 1.c. of the Order applies. The limitations specified in Attachment B. of Order No. R4-2003-0111 are not applicable to the discharge.

January 18, 2007

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

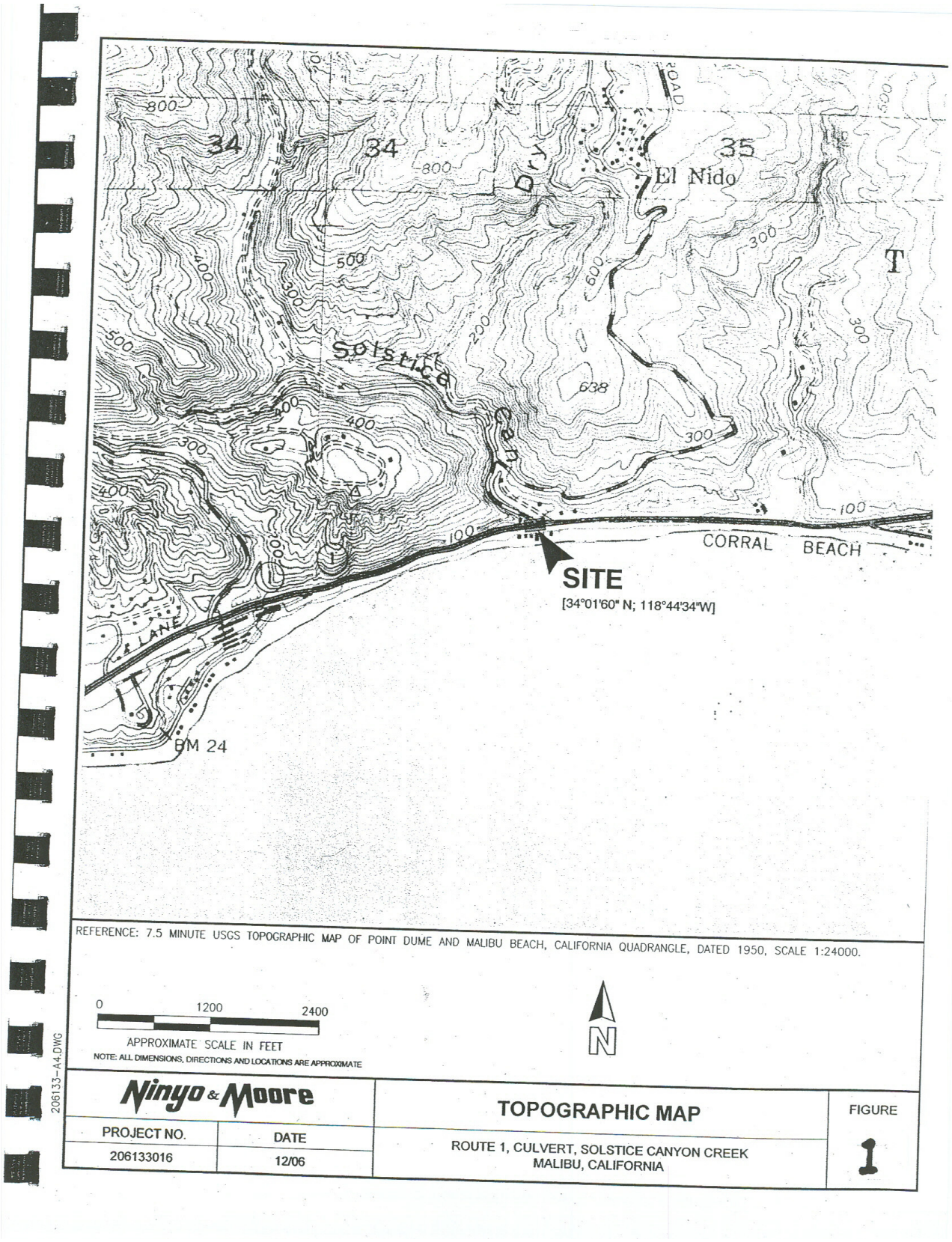
Constituents	Units	Discharge Limitations	
		Daily Maximum	Monthly Average
Total Suspended Solids	mg/L	150	50
Turbidity	NTU	150	50
BOD_5 20°C	mg/L	30	20
Oil and Grease	mg/L	15	10
Settleable Solids	ml/L	0.3	0.1
Sulfides	mg/L	1.0	---
Phenols	mg/L	1.0	---
Residual Chlorine	mg/L	0.1	---
Methylene Blue Active Substances (MBAS)	mg/L	0.5	---
Cadmium	µg/L	5.0	---
Chromium III	µg/L	50	---
Copper	µg/L	5.8	2.9
Lead	µg/L	14	7.0
Mercury	µg/L	0.1	0.05
Nickel	µg/L	14	6.7
Zinc	µg/L	350	170

FREQUENCY OF DISCHARGE

The discharge of groundwater will be continuous during construction project, approximately 60 days.

REUSE OF WATER

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. Small portion of the treated groundwater may be used for dust control at the project site. There are no other feasible reuse options for the discharge. Therefore, most of the treated groundwater will be discharged to the creek in compliance with the requirements of the attached Order.


34
34
35
El Nido
Solstice
Can
CORRAL BEACH
SITE
[34°01'60" N; 118°44'34"W]
LANE
BM 24
638
REFERENCE: 7.5 MINUTE USGS TOPOGRAPHIC MAP OF POINT DUME AND MALIBU BEACH, CALIFORNIA QUADRANGLE, DATED 1950, SCALE 1:24000.
0
1200
2400
APPROXIMATE SCALE IN FEET
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE
N
206133-A4.DWG
Ninyo & Moore
TOPOGRAPHIC MAP
FIGURE
1
PROJECT NO.
206133016
DATE
12/06
ROUTE 1, CULVERT, SOLSTICE CANYON CREEK
MALIBU, CALIFORNIA

Pre-Treatment Diagram
Solstice Canyon Creek Culvert (EA 4H9801)

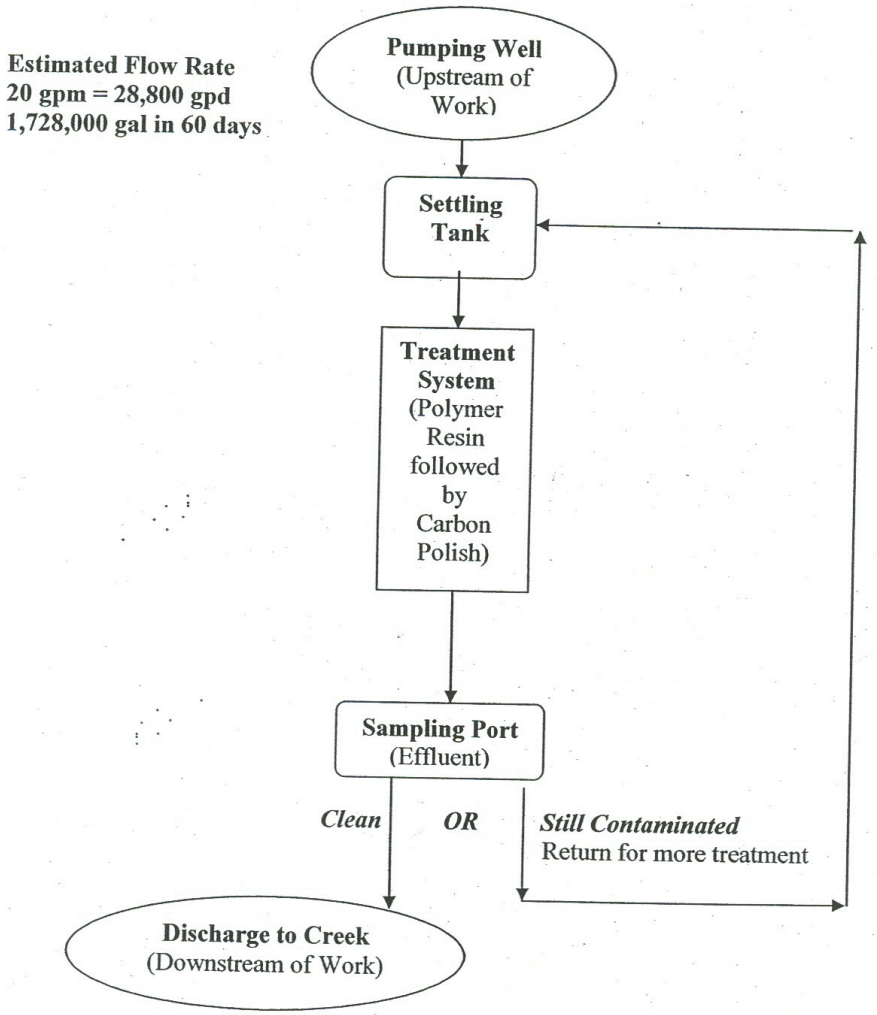


FIGURE 2