

# EBMUD

# FILE

EAST BAY MUNICIPAL UTILITY DISTRICT

P. O. BOX 24055  
OAKLAND, CA 94623  
Tel: 510-287-1623 or 287-1613  
Fax: 510-287-0621

FAX TRANSMISSION COVER SHEET

Date: 12/30/99  
To: ERIC OWEN  
Fax: 595-2340  
Re: WAREHAM DEVELOPMENT GROUP  
Sender: LEW JONES / TRISH MAGUIRE

YOU SHOULD RECEIVE 15 PAGE(S), INCLUDING THIS COVER SHEET. IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL 510-287-1623 or 287-1613.

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COMMENTS:

[ ] Original to follow.



# WASTEWATER DISCHARGE PERMIT

PERMIT NUMBER 504-29911

## Terms and Conditions APPLICANT INFORMATION

SOURCE CONTROL DIVISION

APPLICANT BUSINESS NAME  
WAREHAM DEVELOPMENT GROUP

PERSON TO BE CONTACTED IN EVENT OF EMERGENCY  
Name: GEOFFREY SEARS  
Day Phone: 415-457-4964 Night Phone: \_\_\_\_\_  
Fax Number: 415-459-4605

ADDRESS OF PREMISES DISCHARGING WASTEWATER  
Street Address: 5955 HORTON STREET  
City: EMERYVILLE Zip Code: \_\_\_\_\_

PERSON TO BE CONTACTED ABOUT THIS APPLICATION  
Name: ERIC OWEN  
Title: PROJECT MANAGER  
Day Phone: 595-2330 Fax Number: 595-2340

FACILITY MAILING ADDRESS  
Street Address: 2755 CAMPUS DRIVE SUITE 17  
City: SAN MATEO CA Zip Code: 94403  
Electronic Mail Address (E-Mail): ERICO@WEBCOR.COM

CHIEF EXECUTIVE OFFICER/DULY AUTHORIZED REPRESENTATIVE  
Name (printed): Geoffrey Sears Title: PROJECT MANAGER  
Street Address: 1120 NYE STREET, SUITE 400 City: SAN RAFAEL Zip Code: 94901

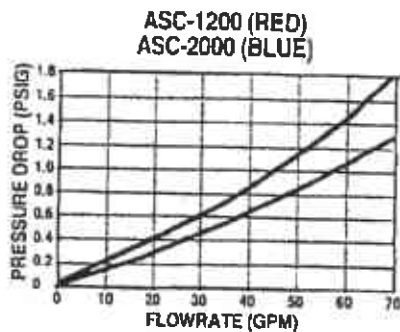
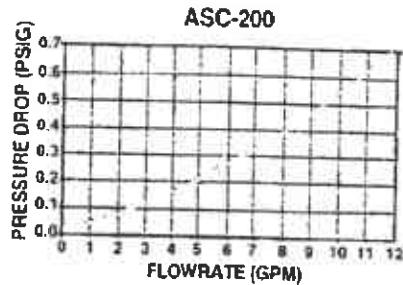
### CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature (see certification requirements on reverse) \_\_\_\_\_

Date: \_\_\_\_\_

# AQUA-SCRUB™ WATER TREATMENT



Vessel Specifications	ASC-200	ASC-1200	ASC-2000
Overall Height (approx.)	34-3/4"	62"	86"
Inlet/Outlet Connection	2"	4" FNPT	4" FNPT
Manhole	Top	16"	16"
Internal Piping	PVC	PVC	PVC
Interior Coating	Heat-cured Phenolic Epoxy	Fusion-bonded Epoxy	Fusion-bonded Epoxy
Exterior Coating (all units)		Epoxy Urethane	Epoxy Urethane
Carbon Fill Volume (cu.ft.)	6.9	35	62
Cross Section (sq.ft.)	2.8	11.2	11.2
Vessel Weight (lbs.):			
Shipping (with KG-401 carbon)	250	1620	2540
Operating (approx.)	500	3500	5600

Operating Specifications	ASC-200	ASC-1200	ASC-2000
Flow, gpm (max)	10	50	50
Pressure, psig (max)	15	15	15
Temperature °F (max.)	140°	140°	140°
Pounds of SKG-401 Activated Carbon	200	1000	1800
Contact time @ max. flow/min:	5	5	10
Backflush rates (GPM)	5	25	25

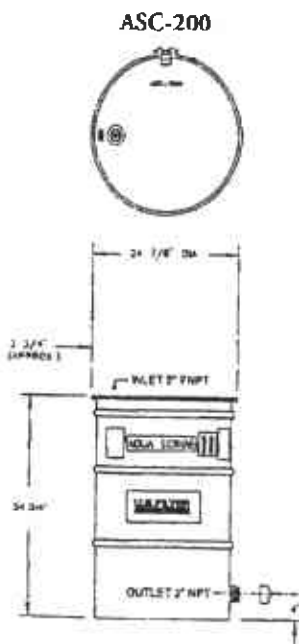
### Reactivation of Spent Carbon

At the time of purchase or rental of the Aqua-Scrubs™, arrangements should be made for the reactivation of the spent carbon. U.S. Filter/Westates will provide instructions and assistance to obtain acceptance of the RCRA or non-RCRA

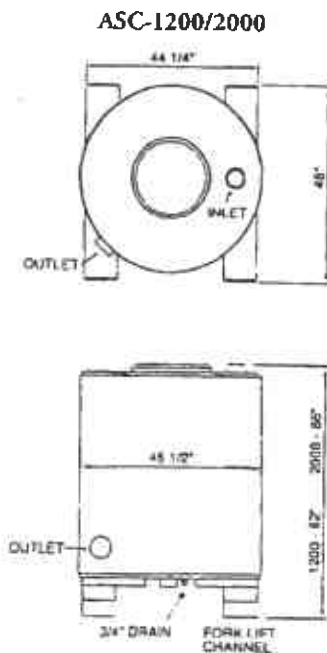
spent carbon for reactivation.

Aqua-Scrubs™ must be drained and the inlet/outlet plugged prior to shipment. Spent carbon cannot be received until the acceptance process has been completed.

All information presented herein is believed reliable and in accordance with accepted engineering practice. U.S. Filter/Westates makes no warranties as to completeness of information. Users are responsible for evaluating individual product suitability for specific applications. U.S. Filter/Westates assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.



Drawings not to scale



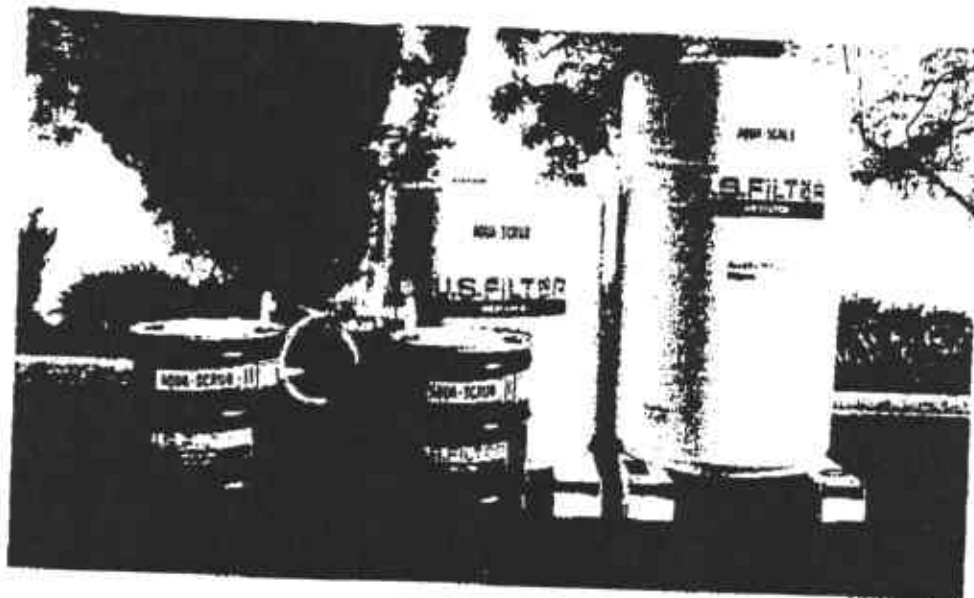
100% water



Taking care of the world's water.

U.S. Filter/Westates  
 Baytown, TX 800-659-1723  
 Warren, NJ 800-659-1717  
 Los Angeles, CA 800-659-1771  
 Oakland, CA 800-659-1718

## AQUA-SCRUB™ WATER TREATMENT



The Aqua-Scrubs™ are designed for use in low flow and low pressure applications. The Aqua-Scrubs™ can be cost effectively used in applications including:

- Groundwater remediation
- Wastewater filtration
- Tank rinse water treatment
- Pilot testing
- Underground storage tank clean up
- Leachate treatment
- Dechlorination
- Spill cleanup

### Benefits and Features:

- The ASC-200 is constructed of 16 gauge steel per U.N. specifications. The ASC-1200 and ASC-2000 are constructed of 10 gauge steel and have a durable, corrosion resistant fusion bonded epoxy internal lining.
- The ASC-1200/2000 can be easily moved using a forklift and are constructed for easy installation and operation
- Spent carbon can be returned to U.S. Filter/WeStates for reactivation without removing it from the Aqua-Scrubs™
- ASC-1200/ASC-2000's are available for rental and purchase. The Aqua-Scrubs™ will be serviced by either vessel exchange or by our OSHA trained personnel via on-site carbon changeout.
- Aqua-Scrubs™ are designed to provide uniform water flow for consistent treatment and to ensure efficient carbon usage.
- Aqua-Scrubs™ are D.O.L. approved

to transport hazardous spent carbon.

- Aqua-Scrubs™ can be filled with reactivated or virgin carbon.

- A full line of hose kits, piping systems and particulate filters are available for all of the Aqua-Scrub™ units to fit your needs.

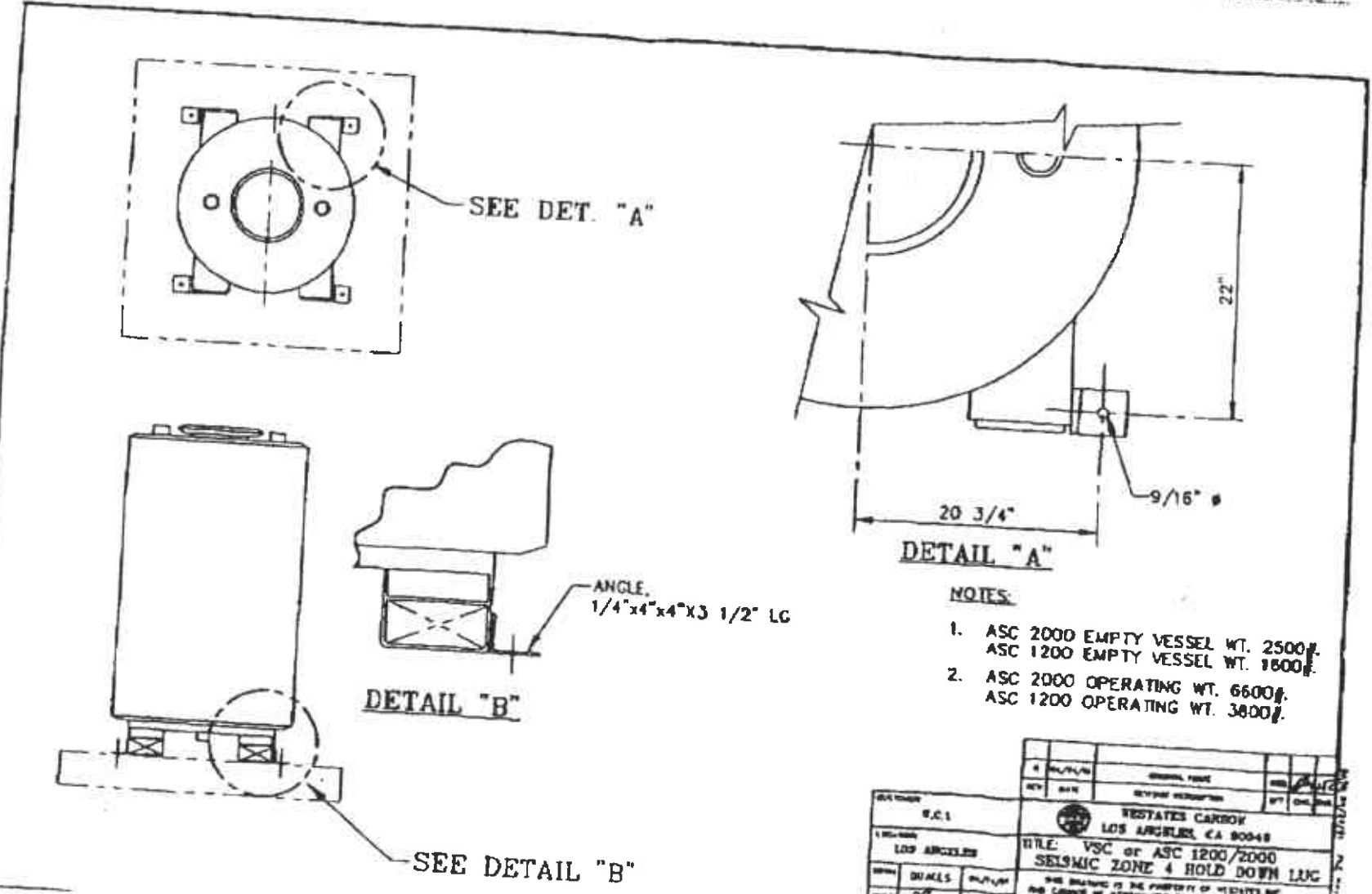
- Adapters are available to reduce the inlet/outlet to 1" FNPT and 2" FNPT for the ASC-200 and ASC-1200/2000 respectively.

### Installation, Start up and Operation

The Aqua-Scrubs™ are shipped filled with dry activated carbon that must be properly wetted and degassed prior to use.

Contact your account manager for details on installation, preferred operating conditions and carbon usage calculations using our extensive isotherm data base.

**U.S. FILTER**  
WFSTATES



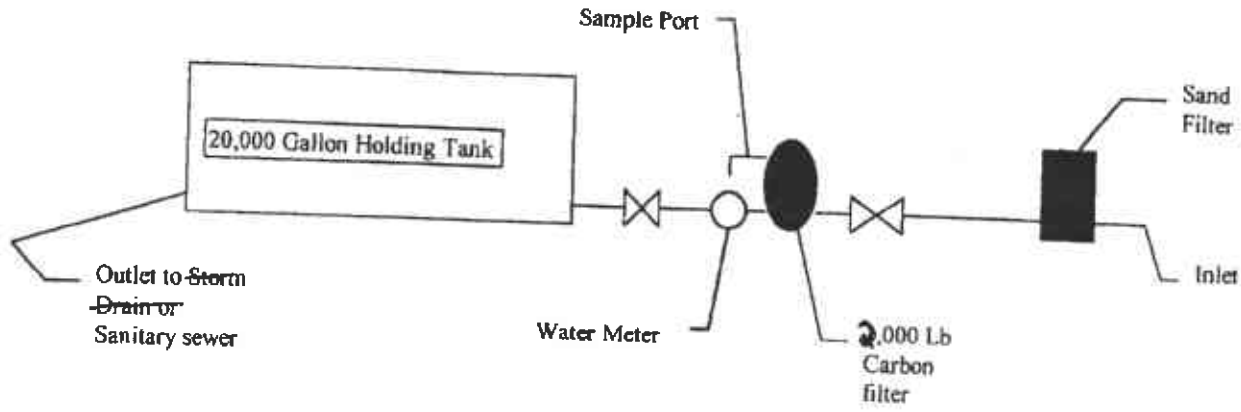
DETAIL "A"

NOTES:

1. ASC 2000 EMPTY VESSEL WT. 2500g.  
ASC 1200 EMPTY VESSEL WT. 1800g.
2. ASC 2000 OPERATING WT. 6600g.  
ASC 1200 OPERATING WT. 3800g.

REV	DATE	DESCRIPTION	BY	CHK
1				
<p>WESTATES CARBOY LOS ANGELES, CA 90048</p> <p>DRG. VSC or ASC 1200/2000 SEISMIC ZONE 4 HOLD DOWN LUG</p> <p>THIS DRAWING IS THE PROPERTY OF WESTATES INC. AND CANNOT BE REPRODUCED OR RELEASED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF WESTATES CARBOY INC. LOS ANGELES, CA 90048</p>				

Wareham Development Group  
Permit No. 504-29911

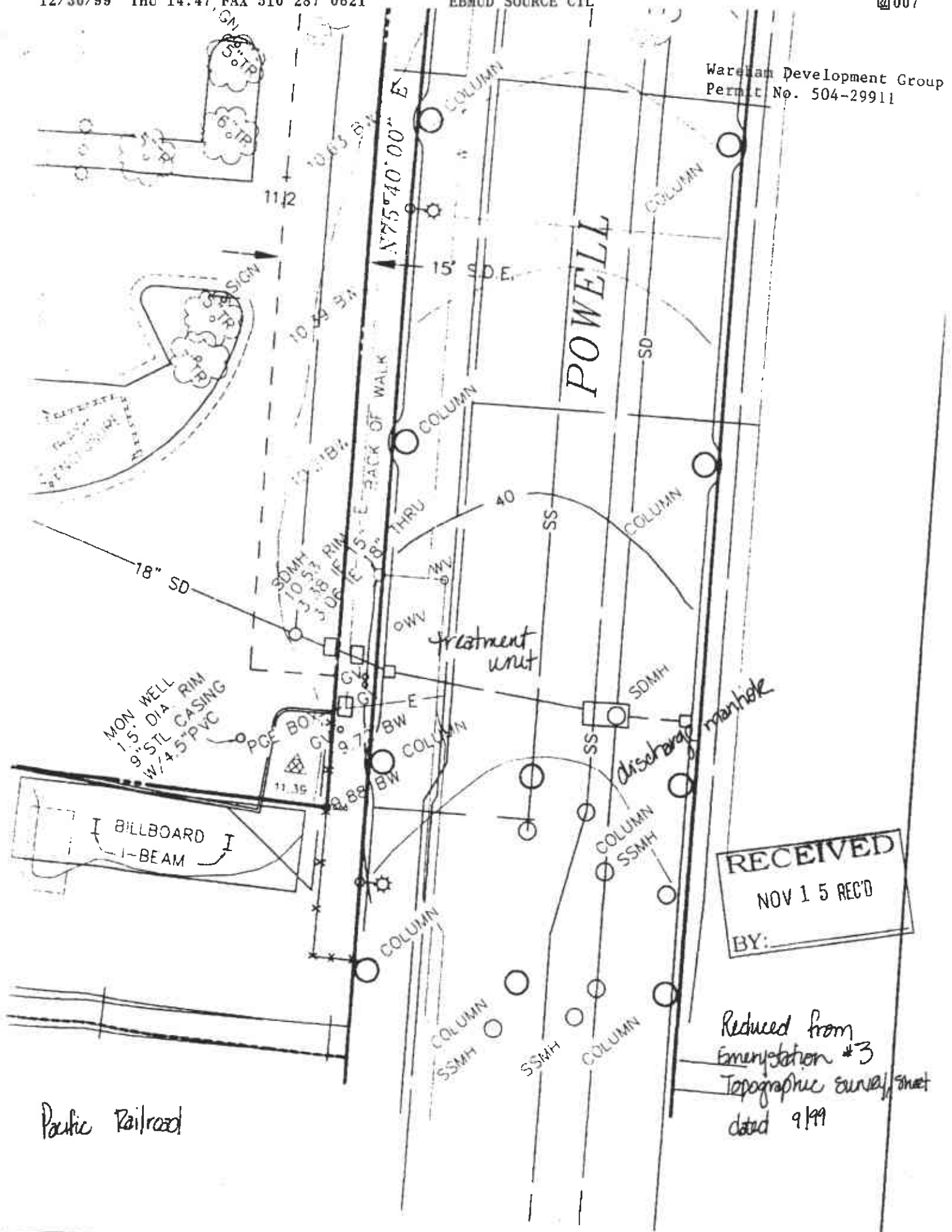


RECEIVED  
DEC - 1999  
SOURCE CONTROL DIVISION

**Emerystation #3 Water Treatment Unit**  
 Sand filter and carbon unit can operate up to  
 50 GPM.  
 Periodic sampling will be required from the sample port or the holding tank.

DJK Construction Inc.  
 925-778-8255

Wareham Development Group  
Permit No. 504-29911



**RECEIVED**  
 NOV 15 REC'D  
 BY: \_\_\_\_\_

Reduced from  
 Emerystation #3  
 Topographic survey sheet  
 dated 9/99

Pacific Railroad



# WASTEWATER DISCHARGE PERMIT

## Terms and Conditions

### PROCESS DESCRIPTION

FACILITY NAME Wareham Development Group

**PURPOSE** - The Process Description is intended to provide a description of the primary business activities and the substances which may enter into the wastewater from the business activity.

Permit Number  
504-29911

**BUSINESS ACTIVITY**

Standard Industrial Classification

Business Classification Code  
4950

CONSTRUCTION OF A NEW PARKING LOT

**DESCRIPTION OF PRODUCT**

TYPE OF PRODUCT OR BRAND NAME	QUANTITIES - INDICATE UNITS			
	Past Year		Estimated This Year	
	Mo.	Year	Mo.	Year
<u>GROUND WATER PUMPED FROM OPEN EXCAVATION</u>			<u>11/99</u>	<u>4/00</u>

**PROCESS DESCRIPTION**

Process Description <small>List all wastewater generating operations</small>	Characteristics <small>List all substances that may be discharged to the sewer</small>	Process Number <small>From Schematic</small>
<u>PRE-TREATMENT OF GROUND WATER PUMPED FROM OPEN EXCAVATION</u>	<u>N/A</u>	

**PRETREATMENT FACILITIES**

Pretreatment: Check the type of treatment, if any, given wastewater before it is discharged to the community sewer:

None  
  holding tank  
  grease trap  
  oil and water separator  
  grinding  
  sedimentation  
  pH adjustment  
 biological treatment  
  screening  
  chlorination  
  other (describe) ACTIVATED CARBON

Description: Describe the loading rates, design capacity, physical size, etc. of each pretreatment facility checked above. Identify the side sewer to which treated wastewater is discharged.

20,000 GALLON HOLDING TANK. 10 MICRON SOCK FILTER, 2000 LB CARBON UNIT.

**OTHER WASTES:** List the type and volume of liquid waste and sludge removed from the premises by means other than the community sewer.

Facility EPA Generator I.D. Number \_\_\_\_\_

Waste removed by Name, address, State Transporter I.D. No.	Type of Waste Example: Alkaline cleaners, Organic solvents	EPA Waste No.	State Waste No.	Quantity generated lbs. or gal. /month
<u>N/A</u>				





# WASTEWATER DISCHARGE PERMIT

## Terms and Conditions

### STRENGTH SUMMARY

FACILITY NAME Wareham Development Group

**PURPOSE:** This information will identify for EBMUD the variation in flow rate and the type of constituents and characteristics of the discharge for each side sewer.

Permit Number  
504-29911

Side Sewer No. 1 Side Sewer Location Powell St.

**Wastewater Flow Rate**

Peak Hourly (gallons/minute)	Maximum Daily (gallons/day)	Annual Daily Average (gallons/day)	Max. Monthly (CCF *)
50 gpm	20,000	5,000	130 CCF

\* CCF = hundred cubic feet = 748 gallons

**Discharge Frequency**

<p><b>Discharge Period</b></p> <p><input type="checkbox"/> Continuous    <input type="checkbox"/> 24 hrs./day  <input type="checkbox"/> 365 day/year; or</p> <p>a. Time of day from <u>6:00 AM to 8:00 PM</u>  b. Days of the week <u>5</u></p>	<p><b>Batch Discharge(s)</b></p> <p>a. Day(s) of the week <u>MON-FRI</u>    b. Time(s) of the day <u>6 AM-8 PM</u>  c. Volume discharged _____    d. Rate of Discharge <u>100 GPM</u></p>
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**Stormwater Area** - Total area in square feet exposed to stormwater, rainwater, and groundwater and draining to this side sewer \_\_\_\_\_ sq. ft.

**Wastewater Strength Estimates** - Enter the average annual and maximum wastewater strength for this side sewer for each of the following elements of wastewater strength for the period covered by the Permit. These values will become the basis for sewage disposal charges and are the average and maximum limits on the elements of the discharger's wastewater strength.

Elements of Wastewater Strength	Unit	Average	Maximum
Total Suspended Solids (TSS)	mg/L	200*	5000*
Filtered Chemical Oxygen Demand (CODF)	mg/L	N/A	

\*before treatment

Provide the name and address of the laboratory and the State of California, Department of Health Services, Environmental Laboratory Accreditation Program Certificate Number of the laboratory performing self-monitoring analyses.

Name Mc CAMPBELL ANALYTICAL, INC. Telephone (925) 798-1620  
Street 110 2ND AVE SOUTH # D 7 City PACHECO State CA Zip 94553-5560

Certificate Number \_\_\_\_\_



# WASTEWATER DISCHARGE PERMIT

FACILITY NAME Wareham Development Group

## Terms and Conditions WATER SOURCE AND USE

**PURPOSE:** This information will enable EBMUD to evaluate the volumes and source(s) of wastewater discharged to the community sewer.

Permit Number  
504-29911

**Water Use and Disposition** Estimate the average quantity of water received and wastewater discharged daily.

**NOTE:** Show on a separate sheet the METHOD AND CALCULATIONS used to determine the quantities shown on the table.

WATER USED FOR:	Supply From			Discharged To		
	EBMUD gal/day	Other (1) gal/day code		Community Sewer gal/day	Other (2) gal/day code	
SANITARY						
PROCESSES						
BOILER						
COOLING						
WASHING						
IRRIGATION						
OTHER (3)		5,000	a.	5,000		
TOTAL		5,000		5,000		

Notes:

(1) Enter the quantity and the appropriate code letter indicating the source:

a. well b. creek c. estuary d. bay e. stormwater f. reclaimed water

(2) Enter the quantity and the appropriate code letter indicating the discharge point:

a. well b. creek c. estuary d. bay e. stormdrain f. rail, truck, barge g. evaporation h. product

(3) Describe: \_\_\_\_\_

Total Number of Employees Total n/a

	Office		Production (number of employees per shift)					
	No.	Hours	Day Shift		Swing shift		Night shift	
			No.	Hours	No.	Hours	No.	Hours
Weekday		to		to		to		to
Saturday		to		to		to		to
Sunday		to		to		to		to

### Source of Wastewater Discharged

Water Meter Number	Use Code (see reverse)	Percent (%) discharged to: Side Sewer									Total % Disch. to all side sewers
		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	
n/a	W	100									100



# WASTEWATER DISCHARGE PERMIT

## Terms and Conditions

Wareham Development Group  
Permit No. 504-29911  
Page No. 1

### GENERAL CONDITIONS

- I. Title I, Section 5 of EBMUD Ordinance No. 311 prohibits the discharge of groundwater to the community sewer. This Permit to discharge treated groundwater is considered a waiver of the prohibition and is issued based on Wareham Development Group's application that discharge of pollutants to the community sewer will be minimized and methods to reclaim the groundwater, to the extent technically and economically feasible, have been made.
- II. This Permit is granted to Wareham Development Group to discharge treated groundwater from 5955 Horton Street in Emeryville.
- III. Wareham Development Group shall cease discharge of groundwater immediately if not in compliance with any of the Terms and Conditions of this Permit.
- IV. Wareham Development Group shall comply with all items of the attached STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 07/96 Revision (SPARR).

### COMPLIANCE REQUIREMENTS

- I. Wareham Development Group shall not discharge any treated wastewater that is known to be, or suspected of, violating wastewater discharge limitations.
- II. Wareham Development Group shall pretreat all groundwater before discharging to the sanitary sewer manhole approved by the City of Emeryville, as referenced in the letter dated November 8, 1999. Pretreatment shall consist of a minimum of processes displayed in the *Emerystation #3 Water Treatment Unit Diagram*.
- III. Wareham Development Group shall maintain the pretreatment system in proper operating condition.
- IV. Wareham Development Group shall sample and analyze each batch of wastewater before discharge to the sanitary sewer according to specifications listed in Self-Monitoring Reporting Requirements, III. and IV.



# WASTEWATER DISCHARGE PERMIT

## Terms and Conditions

Wareham Development Group  
 Permit No. 504-29911  
 Page No. 2

### COMPLIANCE REQUIREMENTS (continued)

- V. Wareham Development Group shall maintain records of operation and maintenance activities on the pretreatment systems. The records shall include, but are not be limited to, meter readings from the flow totalizer at a maximum of monthly intervals; maintenance activities performed; description of operational changes; description of visual observations of the unit for leaks or fouling; and off - haul of hazardous wastes. The records shall be available to the District staff upon request.

### REPORTING REQUIREMENTS

- I. Violations shall be reported in accordance with Section B, Paragraph II of SPARR.
- II. Wareham Development Group shall submit technical reports due on the following dates:

<u>Date Due</u>	<u>Reporting Period</u>
July 26, 2000	December 27, 1999 through June 26, 2000
January 26, 2001	June 27, 2000 through December 26, 2000

The technical reports shall contain the following information, at a minimum:

1. Self-monitoring reports prepared in accordance with the "Self-Monitoring Reporting Requirements" of this Permit.
2. Monthly readings from the flow totalizer measuring volume of the pretreatment system effluent.
3. Volume of groundwater pumped and treated during the reporting period, and a total to date.
4. Description of any operational changes occurred during the reporting period.
5. Certification and signature prepared in accordance with Section B Part V of SPARR, "Signature Requirements".



# WASTEWATER DISCHARGE PERMIT

Terms and Conditions

Wareham Development Group  
Permit No. 504-29911  
Page No. 3

## WASTEWATER DISCHARGE LIMITATIONS

Wareham Development Group shall not discharge wastewater from a side sewer into the community sewer if the strength of the wastewater exceeds the following local limits:

<u>REGULATED PARAMETER</u>	<u>DAILY MAXIMUM</u>
Benzene	0.005 mg/L
Toluene	0.005 mg/L
Ethylbenzene	0.005 mg/L
Xylenes, total	0.005 mg/L

## SELF-MONITORING REPORTING REQUIREMENTS

- I. Wareham Development Group shall monitor and sample the wastewater discharge into the community sewer in accordance with Section C of SPARR. The sampling shall be performed at the locations and frequency for the parameters specified below.
- II. Self-monitoring reports shall contain all laboratory results and the corresponding chain of custody documentation, and signatory requirements.
- III. The Sample location shall be the sample tap located on the effluent side of the 2,000 pound Carbon Filter. This sample location shall be referred to as Process Sample Point #1 (PSP #1) in all reports. PSP #1 is shown in the Emerystation #3 Water Treatment Unit Diagram.
- IV. Wareham Development Group shall sample each batch of wastewater from PSP #1 before discharge to the sanitary sewer. The effluent shall be analyzed for the following parameters:

Parameter	Sample Type	EPA Method
Benzene	grab	8020 or 624
Toluene	grab	8020 or 624
Ethylbenzene	grab	8020 or 624
Xylenes	grab	8020 or 624

SD-30.7.2/91



# WASTEWATER DISCHARGE PERMIT

## Terms and Conditions

Wareham Development Group  
 Permit No. 504-29911  
 Page No. 4

### MONITORING and TESTING CHARGES

EBMUD Inspections Per Year: 2 @ \$540.00 each = \$1,080.00 / year

Analyses Per Year:

Parameter	Tests per year	Charge per test	Total Charge per year
EPA 624	2	\$179.00	\$358.00

Total Monitoring and Testing Charge =                       
 \$1,438.00 / year  
 \$119.83 / month

### WASTEWATER DISPOSAL SERVICE CHARGE

All wastewater discharged will be charged for treatment and disposal service at the Business Classification Code (BCC) unit rate for 4950, Sanitary Collection and Disposal, or 'All other BCC's'. Wastewater charges are determined by multiplying the metered consumption by the percent discharged, adding any fixed volume, and multiplied by the treatment charge.

Unit Rate = \$0.42 /Ccf  
 Discharge Volume = 130 Ccf/mo.  
 Wastewater Disposal Charge = \$54.60 /mo. (based on 97,240 gallons/month average)

### WASTEWATER CAPACITY FEE

The capacity fee is calculated by multiplying the maximum monthly wastewater discharge volume by the applicable fee in effect at start-up. The capacity fee is based on the maximum monthly discharge of 97,240 gallons or 130 Ccf/month.

Capacity Fee Rate for Flow: \$ 48.76/Ccf/Mo. \* 130 Ccf/mo. = \$6,338.80  
 Total Capacity Fee = \$6,338.80  
 Monthly Capacity Fee over 36 months = \$176.08



# WASTEWATER DISCHARGE PERMIT

## Terms and Conditions

Wareham Development Group  
 Permit No. 504-29911  
 Page No. 5

### FEES AND WASTEWATER CHARGES

The following fees and charges are due when billed by the District:

Permit Fee (paid)	\$2,490.00
Monthly Capacity Fee	\$176.08
Monthly Monitoring Charge:	\$119.83
Monthly Wastewater Disposal Charge:	\$54.60
Total Monthly Charges =	\$350.51

The District may change the terms and conditions of a Wastewater Discharge Permit, including changing the average limits on the elements of wastewater strength and rates and charges, from time to time as circumstances may require. The District shall allow a discharger reasonable time to comply with any District required changes in the permit except that a change in average limits of wastewater strength shall immediately affect calculation of the wastewater disposal charge.

Charges listed in this Permit will be assessed on EBMUD bills in accordance with the EBMUD Meter Reading Schedule.

**AVERAGE WASTEWATER DISCHARGE \***

Last 12 Months
N/A
Preceding 12-24 Months
N/A

\* gallons per day

Effective: 12/27/99

Expiration: 12/26/00

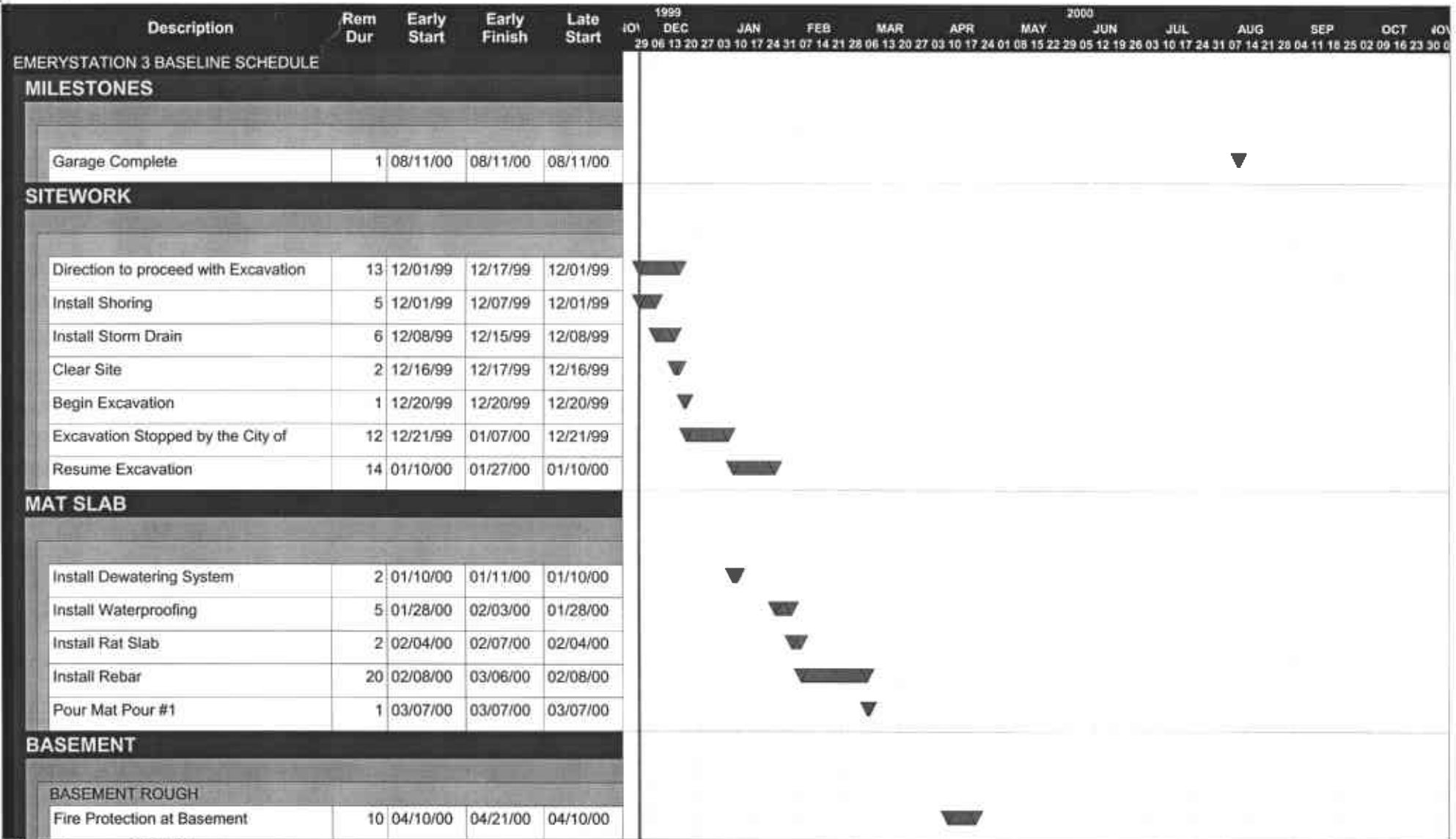
**Authorization**

**Permit Holder** shall report to EBMUD, Wastewater Department any changes, permanent or temporary, to the premises or operations that significantly change the quality or volume of the wastewater discharge or deviation from the terms and conditions under which this permit is granted.

**Permit Holder** is hereby authorized to discharge wastewater to the community sewer, subject to said Applicant's compliance with EBMUD Wastewater Control Ordinance No. 311 and permit compliance conditions, reporting requirements and billing conditions.

*David R. Wilman*  
 Director, Wastewater Department

12/28/99  
 Date



Start date	12/01/99
Finish date	08/11/00
Data date	12/01/99
Run date	03/08/00
Page number	1A

**EMERYSTATION 3 BASELINE SCHEDULE**

- △ Early start point
- ▽ Early finish point
- ▬ Early bar
- ▬ Progress bar
- ▬ Critical bar
- ▬ Summary bar
- ▲ Progress point
- ▼ Critical point
- Summary point
- ◆ Start milestone point
- ◇ Finish milestone point















