



System Operation Services Facsimile Cover Sheet

To: DR. LARRY RUSSEL Rm. 431
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From: ZANE FOY
Company: S.O.S.
Phone: 510 549-0584
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Date: 10/23/95

Pages including this
cover page:

Comments:

Any Questions Page me!
Thanks
Z

APPLICANT BUSINESS NAME

City of Emeryville

ADDRESS OF PREMISE DISCHARGING WASTEWATER

Shellmound Street

STREET ADDRESS

Temescal Creek to 40th St. Bridge

CITY

ZIP CODE

BUSINESS MAILING ADDRESS

2200 Powell St., 12th Floor

STREET ADDRESS

Emeryville, CA

CITY

94608

ZIP CODE

CHIEF EXECUTIVE OFFICER

John A. Flores

NAME

City Manager

TITLE

2200 Powell St., 12th Floor

STREET ADDRESS

Emeryville, CA

CITY

94608

ZIP CODE

PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Maurice Kaufman

NAME

Civil Engineer

TITLE

(510) 596-4334

PHONE

PERSON TO BE CONTACTED IN EVENT OF EMERGENCY

Juan Arreguin

NAME

(510) 596-4333

DAY PHONE

(510) 678-9735

NIGHT PHONE

DOCUMENTATION TO BE RETURNED WITH THE PERMIT APPLICATION:

- PROCESS DESCRIPTION
- WATER BALANCE CALCULATIONS
- WASTEWATER STRENGTH DATA BASE
- SCHEMATIC FLOW DIAGRAM
- BUILDING LAYOUT PLAN
- DESCRIPTION OF TREATMENT SYSTEM
- SELF-MONITORING METHOD
- SPILL PREVENTION AND CONTAINMENT PLAN
- A LIST OF ALL ENVIRONMENTAL PERMITS (E.G. Air, Hazardous Waste)
- OTHER _____

SPECIFY

PROVISIONS

Applicant will comply with the EBMUD Wastewater Control Ordinance and all applicable rules and regulations.

Applicant will report to EBMUD, Wastewater Department any changes, permanent or temporary, to the premise 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.

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.

John A. Flores

NAME (See certification requirements on reverse)

City Manager

TITLE

SIGNATURE

8/23/95

DATE

EBMUD BUSINESS NAME **Process Description**

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.

BUSINESS ACTIVITY
Construction Dewatering of Utility Trenches and Pits

EBMUD USE
Permit Number: 2323796
Business Classification Code: 334900
38 4950

DESCRIPTION OF PRODUCT - List the type of product or brand name and the estimated quantity discharged during the past calendar year and estimated quantity for this year.

TYPE OF PRODUCT OR BRAND NAME	QUANTITIES	
	Past Calendar Year	Estimated This Year
Groundwater		3,000,000 gal

PROCESS DESCRIPTION

PROCESS DESCRIPTION List all wastewater generating operations	CHARACTERISTICS List all substances that may be discharged to the sewer.
Example: Rinsewater from electroplating bath	Cr, Cu, Ni, Zn
Example: Washdown of milk filling area	fatty acids, milk
To be submitted by contractor within 10 days after award of contract by the City of Emeryville.	(See test results attached)
	Lead, chromium, zinc, arsenic, copper, TPHD

DISCHARGE PERIOD

a. Time of day from 7AM to 4PM

b. Days of the week 5

BATCH DISCHARGE(S)

a. Day(s) of the week 5

b. Time(s) of the day 7am-4pm

c. Volume discharged 50,000 gal

d. Rate of discharge 50,000 gal/day

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

WASTE REMOVED BY (Name, address and State Transporter ID No.)	TYPE OF WASTE (Example: alkaline cleaners, organic solvents, treatment sludge)	WASTE I.D. No.	VOLUME (lbs)(gal)/m3
To be provided at a latter date when contract is awarded.	Sludge from filtered groundwater		

3D-31 * 7/86



Water Balance / Strength Summary

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

Permit Number

WATER USE AND DISPOSITION: Show on a separate sheet the method and calculations used to determine the quantities shown in the table.

Figures are: gallons per calendar day gallons per working day Number of working days per year 120
 * Discharge approx. 40 days

WATER USE	WATER SUPPLY FROM:			WASTEWATER DISCHARGED TO:					
	EBMUD		OTHER (1)	SIDE SEWER (gal/day)				OTHER (2)	
	gal/day	gal/day	CODE	No. 1	No. ____	No. ____	No. ____	gal/day	CODE
Sanitary									
Processes									
Boiler									
Cooling									
Washing									
Irrigation									
Product									
Stormwater									
Other (3)				MH#	MH#				
Groundwater		50,000		22-000-01	24-000-01				
Subtotal		50,000		50,000					

EBMUD AND OTHER SUPPLY TOTAL

ALL SIDE SEWERS TOTAL

NOTES:

- Enter the quantity and the appropriate code letter indicating the source:
 a. Well b. Creek c. Stormwater d. Reclaimed Water e. Raw Materials.
- Enter the quantity and appropriate code letter indicating the discharge point:
 a. Stormdrain b. Rail, Truck, Barge c. Evaporation d. Product
- Describe Other: _____

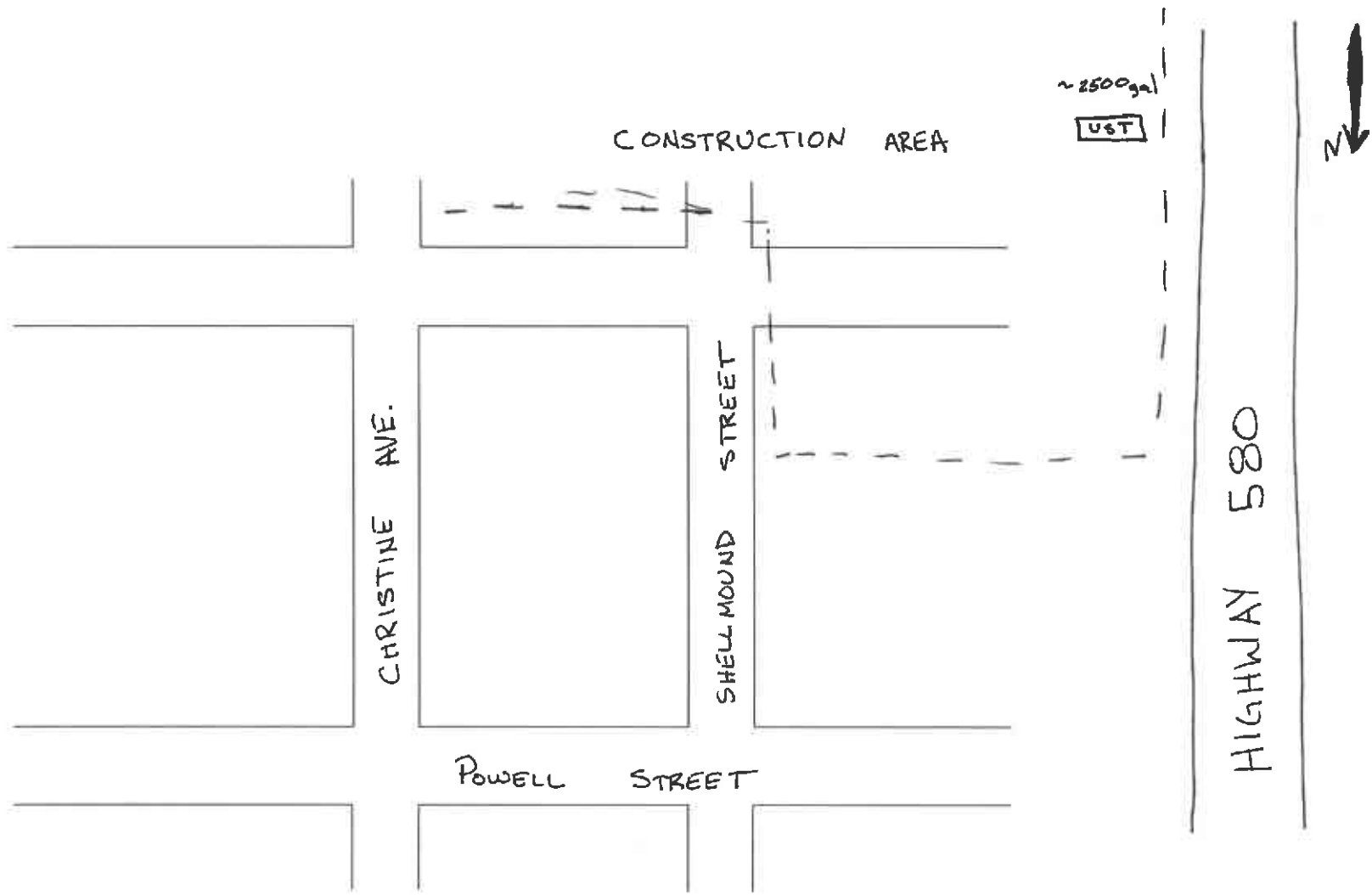
SANITARY DISCHARGE: Please use the following data from the Uniform Plumbing Code, 1985, to determine sanitary wastewater volumes.

- Field service employees - 5 gallons per employee per day
- Office employees - 20 gallons per employee per day
- Production employees - 25 gallons per employee per day
- Production employees with showers - 35 gallons per employee per day

Include the effect that seasonal and weekend staffing changes may have on determining average volumes.

AVERAGE WASTEWATER STRENGTH: Data base must be attached, average self-monitoring and EBMUD data.

	SIDE SEWER (mg/L)			
	No. 1	No. ____	No. ____	No. ____
CODF	15			
TSS	2			



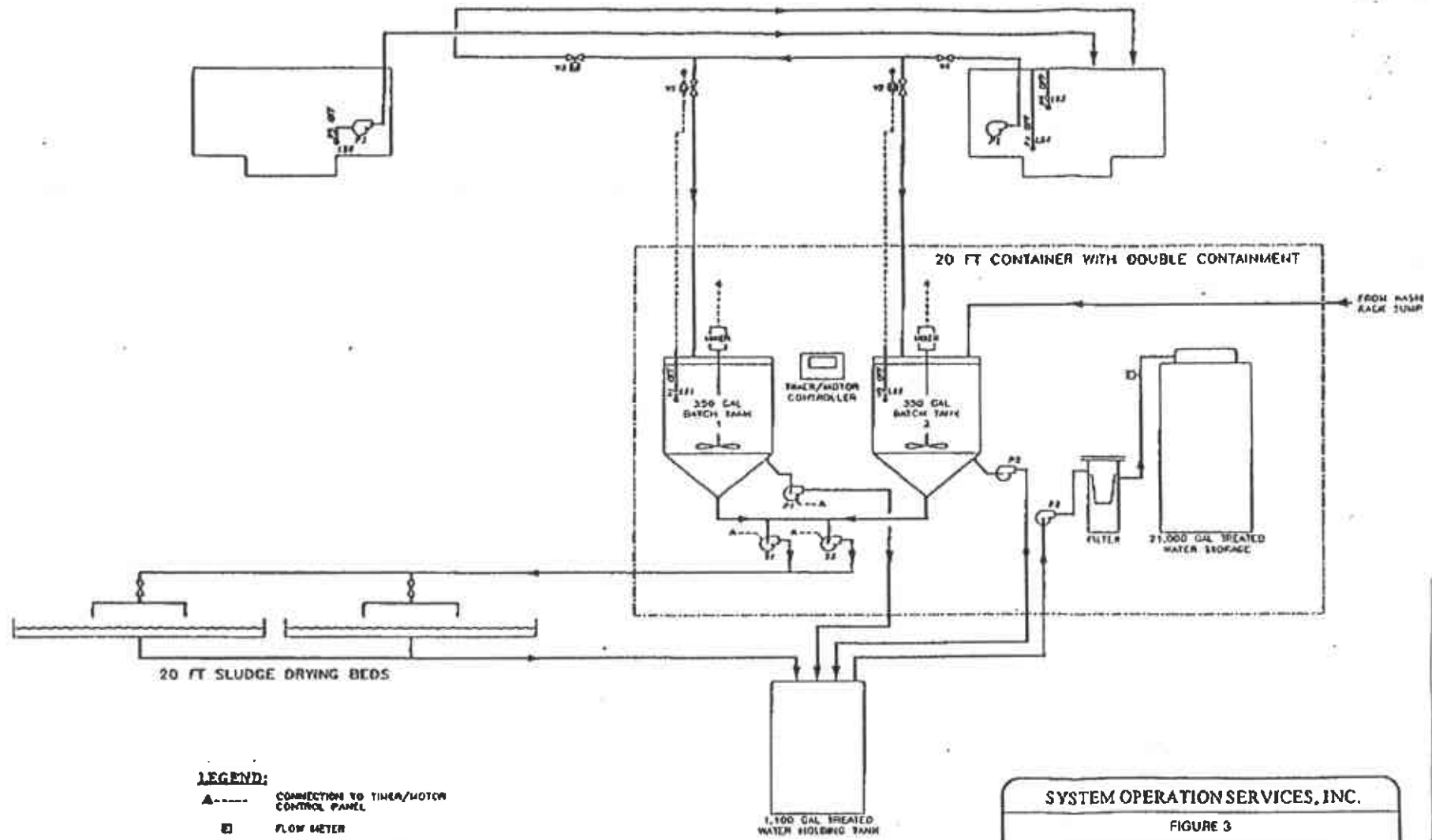
LEGEND:

UST Location
 City Of Emeryville
 Shellmound Street,
 Barbory Cost Deal

Note: Not To Scale

Date: 11-2-95		
Locations Approx.		

DATE: 1-27-94 SCALE: AS SHOWN DRAWN BY: RDP



LEGEND:

- ▲----- CONNECTION TO TIMER/MOTOR CONTROL PANEL
- FM FLOW METER
- EBV ELECTRICALLY ACTUATED BALL VALVE
- HOSE END
- LS LEVEL SWITCH

SYSTEM OPERATION SERVICES, INC.

FIGURE 3

Treatment System Schematic

Industrial Waste Water Treatment Plant Model 500

DATE: 1-27-94 | SCALE: AS SHOWN | DRAWN BY: RDP

OCT-25-1995 17:48 FROM STRATUS 3 TO 2323796 P.03

MARCOS PIGMENTS
(FORMERLY PFIZER PIGMENTS)

MYERS CONTAINER CORPORATION

BARBARY COAST STEEL
(FORMERLY JUDSON STEEL)

SHELLMOUND STREET

Water Treatment Unit ← Site

PARCEL I

PARCEL II

PARCEL III

PROPOSED ROADWAY

ROADWAY

POWELL STREET PLAZA
(FORMER P.J.R. SITE)

INTERSTATE 80 FREEWAY

CALTRANS EASEMENT



- LEGEND**
- MW-17 Existing Monitor Well
 - HP8 Hydropunch Sampling Location
 - B-1 Soil Boring
 - P2 Piezometer (Groundwater level data only)

Reference: A.L.T.A. Survey, Shellmound Venture Properties, A.P.N. 049-1515-004, 006 & 007, City of Emeryville, Alameda County, California, by Mark Thomas & Co., Inc., dated 7/10/94.

AGI TECHNOLOGIES	Shellmound Ventures Property		FOUR 2
	Emeryville Public Works/Data Tabulation Emeryville, California		
PROJECT NO. 15,069,006	ENGINE CWF	DATE 17 Apr 95	APPROVED REVISION DATE



INDUSTRIAL PERMIT Terms and Conditions

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GENERAL CONDITIONS

- I. City of Emeryville shall comply with all items of the attached STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 06/95 Revision.

COMPLIANCE REQUIREMENTS

- I. City of Emeryville shall pretreat all groundwater prior to discharge. Pretreatment shall consist of processes shown in the Schematic Flow Diagram (System Operation Services, Inc., Figure 3 Treatment System Schematic, Industrial Waste Water Treatment Plant Model 500), and the Building Layout Plan.

REPORTING REQUIREMENTS

- I. City of Emeryville shall not discharge any treated wastewater that is known to be, or suspected of violating wastewater discharge limitations. Violations shall be reported in accordance with Section B, Paragraph II of Standard Provisions and Reporting Requirements, 06/95 Revision.
- II. City of Emeryville shall monitor discharges per the schedule found in the Self-Monitoring Reporting Requirements of this permit.
- III. City of Emeryville shall submit monthly reports as follows:

<u>Date Due</u>	<u>Reporting Period</u>
December 15, 1995	October 16, 1995 through November 15, 1995
January 15, 1996	November 16, 1995 through December 15, 1995
February 15, 1996	December 16, 1995 through January 15, 1996
March 15, 1996	January 16, 1996 through February 15, 1996

Reports shall contain the following information:

- 1. A summary of the treatment unit self-monitoring results, well sample results, and any other monitoring results performed during the reporting period.
- 2. Copies of the Facility Inspection Log. This log must include:
 - Monthly flow totalizer readings
 - Maintenance activities performed
 - Description of operational changes
 - Visual observations of the unit for leaks or fouling
 - Record of hazardous waste off-haul.

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WASTEWATER DISCHARGE PERMIT
Terms and Conditions

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SELF-MONITORING REPORTING REQUIREMENTS

- I. City of Emeryville shall obtain representative samples of the wastewater discharge. The sampling shall be performed on the dates, at locations, and for parameters specified below.
- II. City of Emeryville shall comply with Reporting and Record Keeping and Monitoring and Sampling requirements found in STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 6/95 Revision Sections B and C.
- III. City of Emeryville shall collect and analyze an effluent sample from the treatment system once per month. The results of the sample shall be included with the monthly report.
- IV. City of Emeryville shall sample for the following parameters according to approved test methods listed in STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 6/95 Revision Section C. III.

Parameter	Sample
ICP Metals	grab
Volatile Organics	grab

WASTEWATER DISCHARGE LIMITATIONS

City of Emeryville shall not discharge wastewater into the community sewer if the strength of the wastewater exceeds the following:

Regulated Parameter	Daily Maximum (in mg/L)
Cadmium	0.0047
Chromium	0.043
Copper	0.128
Iron	2.708
Lead	0.028
Nickel	0.034
Silver	0.012
Zinc	0.288
Benzene	0.005
Toluene	0.007
Ethylbenzene	0.005
Xylenes	0.007

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FEEES AND WASTEWATER CHARGES

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

Permit Fee (\$2,410 - \$2,260 paid)	\$150.00
Monthly Monitoring Charges	\$0.00
Monthly Wastewater Disposal Charge	\$234.15
Monthly Wastewater Capacity Fee	\$2,620.10
Total Monthly Charges =	\$2,854.25

This Permit may be amended to include changes to rates and charges which may be established by the District during the term of this Permit.

AVERAGE WASTEWATER DISCHARGE *

LAST 12 MONTHS	PRECEDING 12 - 24 MONTHS
-0-	-0-

* Gallons per calendar day.

AUTHORIZATION

The above named Applicant is hereby authorized to discharge wastewater to the community sewer, subject to said Applicant's compliance with EBMUD Wastewater Control Ordinance, compliance conditions, reporting requirements and billing conditions.

Effective Date: October 16, 1995

Expiration Date: February 15, 1996

Michael P. White
DIRECTOR, WASTEWATER DEPARTMENT 10-18-95
DATE

SD-30.2 2/91



STANDARD PROVISIONS AND REPORTING REQUIREMENTS (SPARR)

The SPARR contains general stipulations, reporting and sampling requirements that are common to Wastewater Discharge Permits issued by the District. The SPARR are included as enforceable terms and conditions of the permit, pursuant to EBMUD Ordinance No. 311 (Ordinance 311). The Permit Holder shall reference Ordinance 311 in addition to the Wastewater Discharge Permit and SPARR.

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STANDARD PROVISIONS AND REPORTING REQUIREMENTS

SECTION A. GENERAL PROVISIONS

I. Terms and Conditions of Permit

This Wastewater Discharge Permit is issued pursuant to Ordinance 311 and EBMUD resolutions setting rates and charges, unless specifically approved by the Director. Applications for permit renewal shall be submitted to the District at a minimum of 60 days prior to expiration.

II. Disposal of Hazardous Waste

The disposal of hazardous waste by the Permit Holder shall be in accordance with all local, State and Federal laws and regulations applicable to such matters.

III. Dilution Prohibition

The Permit Holder shall not increase the use of process water, or in any other way dilute the process discharge or hazardous waste, as a substitute for treatment, to achieve compliance.

IV. Bypass of Treatment Facilities

The Permit Holder shall not bypass treatment facilities unless:

- a. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage. (Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.);
- b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance;
- c. The Permit Holder submitted advance notice of the need for a bypass to the District. If the Permit Holder knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.

The Permit Holder shall submit notice of an unanticipated bypass as required in Section B, Paragraph II. Twenty-four Hour Violation Reporting.

V. Calibration and Maintenance of Equipment

All flow measurement, discharge sampling, process monitoring, and treatment equipment shall be periodically calibrated, inspected and maintained to ensure their accuracy and reliability.

VI. Closure Plan

Permit Holders that intend to close a facility or cease a regulated process shall provide a written closure plan at least 90 days prior to closing or immediately, when intent to close becomes known less than 90 days prior to closing.

The plan shall include the following:

- a. Date of proposed work or production stoppage;
- b. Date of proposed final closure (after cleaning and demobilizing activities are complete);
- c. All chemical and container consolidation activities and raw material and waste inventory. The inventory shall include, but is not limited to all barrels, plating tanks, and miscellaneous chemicals and containers. Consolidation activities include, but are not limited to container marking, chemical sampling and analysis, and waste treatment;
- d. Description of cleaning activities involving hazardous materials;
- e. Description of methods of disposing of all inventoried items.



STANDARD PROVISIONS AND REPORTING REQUIREMENTS

Parameter	Preservative	Maximum Hold Time	EPA Method	STD Methods* 18 th Ed.
Nickel (Total)	HNO ₃ to pH < 2 Cool to 4°C	6 months	249.1 249.2 200.7	3111 B or C 3113 B 3120 B
Oil & Grease (Total) Oil & Grease (HC)	H ₂ SO ₄ to pH < 2 Cool to 4°C	28 days	413.1 —	5520-B 5520-F
Phenolic Compounds	H ₂ SO ₄ to pH < 2 Cool to 4°C	24 days	420.1 420.2	5530-D
pH, Hydrogen Ion	None	Analyze immediately	150.1	4500-H + B
Silver (Total)	HNO ₃ to pH < 2 Cool to 4°C	6 months	272.1 272.2 200.7	3111 B or C 3113 B 3120 B
Temperature (°C)	None	Analyze immediately	170.1	2550-B
Total Suspended Solids, TSS, filtered with Whatman 934 AH Glass Microfiber filter, or equivalent	Cool to 4°C	7 days	160.2	2540-D
Zinc (Total)	HNO ₃ to pH < 2 Cool to 4°C	6 months	289.1 289.2 200.7	3111 B or C
Poly Chlorinated Biphenyls (PCBs)	Cool to 4°C	7 days until extraction; 40 days after extraction	608	6630 B & C
Purgeable Aromatic Hydrocarbon (BTEX)	Cool to 4°C	14 days	624 8020	6210 B
Semi-Volatile Organics (BNA's)	Cool to 4°C	7 days until extraction; 40 days after extraction	625	6410 B
Total Identifiable Chlorinated Hydrocarbon (Volatile Organics)	HCl to pH < 2, add ascorbic acid if Cl ₂ is present.	14 days	624	6210 B
Total Petroleum Hydrocarbon (TPH)	Cool to 4°C	14 days	8015	—

* Standard Methods For The Examination of Water and Wastewater

IV. Laboratory Results

All sample results required by this Permit shall be performed by a laboratory certified for the analysis by the State Department of Health Services. The laboratory reports shall include:

- a. The name and address of the Laboratory performing the analysis.

position having responsibility for the overall operation of the facility from which the wastewater discharge originates, such as the position of plant manager, a field superintendent, or a position of equivalent responsibility, or an individual or a position having overall responsibility for environmental matters for the facility.

If an authorization under paragraph (d) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for the environmental matters for the company, a new authorization satisfying the requirements of paragraph (d) must be submitted to the District prior to or together with any reports to be signed by an authorized representative.

VI. Hazardous Waste - Listed and characterized wastes under the Section 3001 of the Resource Conservation and Recovery Act (RCRA), as described in the Code of Federal Regulations (40 CFR Part 261) or as defined in California Health and Safety Code Section 25117.

VII. Limits

Average limitations (monthly and 4-day), the monthly average is the arithmetic average value of all samples taken in a calendar month. A 4-day average is the arithmetic average value of 4 valid consecutive samples collected by the District and the Permit Holder.

Daily Maximum limitations - The maximum concentration of a pollutant allowed to be discharged at any time, as determined from the analysis of a grab or composite sample.

VIII. Permit Holder - Any person issued a Wastewater Discharge Permit.

IX. Samples

Grab - an individual sample collected in a short period of time not exceeding fifteen minutes.

Composite - Samples collected over a period of time greater than 15 minutes, formed by a number of discrete aliquots and combined into a single sample, representative of a discharge that varies over time. The composite sample may be a flow proportional sample that is collected either as a constant volume aliquot at time intervals proportional to flow, or collected at constant time intervals but varying the volume of each aliquot in proportion to the flow; or, the composite sample may be a time composite sample composed of constant volume discrete aliquots collected at constant time intervals and combined into a single sample.

Split samples (field) - Samples divided into two or more *representative* portions in the field to allow comparison of analytical techniques and procedures from separate laboratories. Note: Volatile organic and oil and grease samples cannot be split due to the nature of the pollutants.

Duplicate samples (laboratory) - Samples divided by the laboratory into two or more portions. Each portion is separately prepared and analyzed to check precision.

Replicate samples - Two separate grab samples collected under identical conditions, (same time, same technique). Replicate samples are used instead of split samples for volatile organic and oil and grease analyses to compare separate laboratory analytical techniques.

X. Significant Noncompliance - A Person is in significant noncompliance (SNC) if its violation meets one or more of the following criteria:

- a. Chronic violations of wastewater discharge limits, defined as those in which sixty-six percent or more of all of the measurements taken during a six-month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter.
- b. Technical Review Criteria (TRC) violations, defined as those in which thirty-three percent or more of all of the measurements for each pollutant parameter taken during a six-month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC.
TRC = 1.4 for Oil and Grease.
TRC = 1.2 for all other pollutants (except pH).
- c. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the exercise of emergency authority.
- d. Failure to meet, within 90 days after the schedule date, a compliance schedule milestone contained in a Wastewater Discharge Permit or Manager's Order for starting construction, completing construction, or attaining final compliance.
- e. Failure to provide, within 30 days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self monitoring reports, and reports

EBMUD

MONITORING AND REPORTING REQUIREMENTS

V. Signatory Requirements

All applications, reports, or information requested by the Director, shall be signed by a duly authorized representative and must contain the following certification statement:

"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 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."

VI. Retention of Records

- a. The Permit Holder shall retain all records of monitoring information, including calibration and maintenance records, original strip chart recordings for continuous monitoring instrumentation, copies of reports required by this Permit, and records used to complete the application for this Permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.
- b. All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the District shall be retained and preserved by the Permit Holder until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

SECTION C. MONITORING AND SAMPLING**I. Representative Sampling**

Samples and measurements taken, as required in this Permit, shall be representative of the volume and nature of the monitored discharge.

II. Chain of Custody

- a. For each sample, a Chain of Custody shall document:
 1. The location, the type of sample (grab or composite), the date(s) and time, or span of time the samples were taken;
 2. The number of container(s), and type (glass, plastic, vial, etc.);
 3. Preservation techniques (ice, refrigeration at 4 °C, chemicals added, etc.);
 4. Sampler's name, legibly written;
 5. Sample ID number (to cross reference with the sample ID number on the Laboratory results);
 6. All persons handling the sample and the individual receiving the sample at the laboratory, including their signature, printed name, company, date and time the sample was relinquished and accepted.
- b. If a sample is transported or handled by a courier, delivery service (public or private) or shipper, indicate the company or individual's name and the method of packaging the samples on Chain of Custody.
- c. Analyses performed in the Field shall be indicated as such on the Chain of Custody (e.g. pH - field test).
- d. If the Chain of Custody submitted with a Self-Monitoring Report is incomplete, the Report may be construed as incomplete and the sampling shall be repeated.

EBMUD

**PERMIT
Terms and Conditions**

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MONITORING and TESTING CHARGES

Total EBMUD Inspections Per Year: 0 @ \$510.00 each = \$0.00 /year

Total Analyses Per Year:

Parameter	Tests per year	Charge per test	Total Charge per year
			=====
		Monitoring and Testing Charge =	\$0.00 /year \$0.00 /month

WASTEWATER DISPOSAL CHARGE

All wastewater discharged will be charged for treatment and disposal service at the unit rate measured for other carbon treated groundwater discharges.

Current unit rate: \$0.35 /Ccf

Volume discharged in Ccf/month = 669 \$234.15 /month

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. Each month, 1/4 of capacity fee will be charged, until the entire fee has been paid in 4 months.

Discharge volume = 500,412 gallons per month (669 Ccf)
Capacity Fee rate = \$47.65 /Ccf-month
Total Capacity Fee = \$10,480 (During 4 month permit duration)
Capacity Fees paid = \$0
Capacity Fees due = \$10,480 or \$2,620.10 /month

SD-00.7 2/91