

September 14, 2001

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SEP 18 2001

Ms. Trish Maguire
East Bay Municipal Utility District
EDMUD - Mail Slot #702
P. O. Box 24055
Oakland, CA 94623-1055

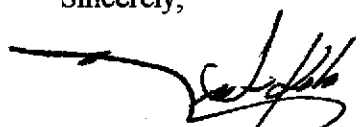
Re: 3609 International Boulevard, Oakland, California 94601
Wastewater Discharge Permit No. 504-27421

Dear Ms. Maguire:

As you requested in your letter dated August 24, 2001, enclosed is SOMA's "Application for Renewal of Wastewater Discharge Permit" for the subject site.

Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 244-6600.

Sincerely,



Mansour Sepehr, Ph.D., P.E.
Principal Hydrogeologist

Enclosure

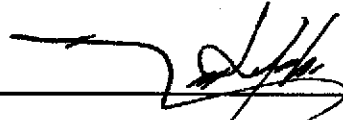
cc: Mr. Abolghassem Razi w/enclosure

Mr. Barney Chan w/enclosure ✓
Alameda County Dept. of Env. Health



CERTIFICATION

This report has been prepared by SOMA Environmental Engineering, Inc. on behalf of Mr. Abolghassem Razi, for the property located at 3609 International Boulevard, Oakland, California to comply with East Bay Municipal Utility District's requirements.



Mansour Sepehr, Ph.D., P.E.
Principal Hydrogeologist



List of Tables

Table-1 Total Volume of Water Treated and Effluent Chemistry

List of Figures

Figure-1 Site Location Map
Figure-2 Building Layout
Figure-3 System Flow
Figure-4 Schematic Diagram

List of Appendices

Appendix A: Wastewater Discharge Permit Forms and EBMUD Discharge
Permit

INTRODUCTION

This permit application has been prepared by SOMA Environmental Engineering, Inc. (SOMA) on behalf of Mr. Tony Razi, the property owner. The site is located at 3609 International Boulevard Oakland, California (the "Site"), see Figure 1. The following report includes system details, monitoring schedules, and EBMUD permit application forms.

BACKGROUND

Currently, the Site is used as a gasoline service station. The environmental investigation at the subject property began in 1992, when Mr. Razi, the property owner retained Soil Tech Engineering, Inc. (STE) of San Jose to conduct a limited subsurface investigation. The purpose of the STE investigation was to determine whether or not the soil near the product lines and underground storage tanks (USTs) have been impacted with petroleum hydrocarbons.

In July 1993, STE removed one- single-walled 10,000-gallon gasoline tank and one single-walled 6,000-gallon gasoline tank along with a 550-gallon waste oil tank from the Site. These tanks were replaced by similar sized double-walled USTs. Currently, there is one-10,000 gallon double-walled gasoline tank and two-6,000 gallon double-walled gasoline tanks beneath the Site.

In December 1997, Mr. Razi retained Western Geo-Engineers (WEGE) to conduct additional investigations and perform groundwater monitoring on a quarterly basis. The results of WEGE groundwater monitoring events indicated elevated levels of petroleum hydrocarbons and MtBE in groundwater.

In September 1999, SOMA was contracted to complete the Site's remediation. SOMA installed a groundwater treatment system that extracts the petroleum-

SOMA Environmental Engineering, Inc.

impacted groundwater from a French drain and then removed the contaminants using a granular activated charcoal. The clean water is then discharged into the municipal sewer system.

DESCRIPTION OF SYSTEM COMPONENTS

The purpose of the groundwater remediation system is to remove all traces of gasoline from the groundwater that is extracted from the trench. The system is also designed to prevent the continued off-site migration of gasoline components. The system is composed of the following components:

Pneumatic Groundwater Pump:

This groundwater pump uses compressed air from a compressor to extract water from the center riser of the trench. Discharge from the pump is channeled under the asphalt to the storage tank. The pump can deliver contaminated groundwater to the system at a maximum rate of 25 gallons per minute (gpm).

Storage Tank:

Water from the groundwater pump arrives at the 200 gallon storage tank. The purpose of the tank is to provide equalization for a more consistent flow to the granular activated carbon units. The tank also serves as a control point for the level sensors.

Transfer Pump:

This pump delivers water from the storage tank to the granular activated carbon units, about 3 feet higher than the discharge point. The transfer pump can handle a maximum of 30 gpm. It was sized to allow for future expansion of the groundwater remediation system if another groundwater pump is placed in the west riser.

Granular Activated Carbon Units (GAC):

The GAC units scrub out petroleum impurities from the groundwater. There are two units that compose the system. The first stage serves as the primary cleaning unit and the second stage provides a level of safety by acting as a purifier. Each unit is capable of providing a clean discharge independently. The primary unit holds 2,000 pounds of activated carbon and can hold 1,000 gallons of water under pressure. The secondary unit holds 150 pounds of activated carbon and 41 gallons of water under pressure. Together the maximum treatment rate is 10 gallons per minute.

Flow Meter:

The flow meter measures the amount of groundwater leaving the second stage of GAC treatment to the nearest 1/10 gallon. The mechanical unit tracks the total volume treated, handling up to 30 gpm accurately.

Sampling Valves:

Two sampling valves are located along the pipes passing groundwater through the GAC units. The first sampling point is located immediately after the first stage of treatment. This is the primary sample point to assist in determining when breakthrough occurs in the first stage unit. After breakthrough, the first stage will be refurbished with fresh carbon to provide the proper safety factor of the second stage. The final sampling point is located after the second stage of treatment. The second GAC unit serves as a polishing unit and is always kept highly active. This ensures that the effluent discharging to the municipal sewer has non-detectable levels of contaminants.

Discharge Point:

After leaving the GAC units and being metered, the treated groundwater will be discharged through existing wastewater plumbing located near the bathroom facilities of the existing structure.

Air Compressor:

A 2 horsepower air compressor with a 30 gallon horizontal tank is used to power the groundwater pneumatic pump. A pressure regulator controls the maximum pressure inside the air compressor at 120 psi.

Air Filter:

The filter controls the air flow from the compressor to the pneumatic pump and scrubs out moisture. A dial on the air filter allows the system operator to adjust the pressure of air supplied to the pneumatic pump. Changes in the supplied air pressure control the pumping rate from the French drain.

Control Panel:

The control panel links together all of the electrical components of the system and controls their activation. The level control sensors activate and shut off the air compressor and transfer pump via the control panel. The control panel also serves a circuit breaker for the air compressor and transfer pump.

Level Control Sensors:

Four probes extend from the top of the storage tank to different levels within the tank. Two probes extend to the bottom of the tank. Together they make up the baseline sensor and the low level sensor. When the water is near the bottom of the tank, the air compressor is activated, but the transfer pump is in standby mode. Mid-point in the tank is the high level sensor. When the water level reaches this point, the transfer pump is turned on and the air compressor continues to operate as normal. At $\frac{3}{4}$ full, the final sensor is the high/high alarm. This probe shuts down the system to prevent overflow of the storage tank.

SYSTEM OPERATION

The system has been in operation since December 6, 1999, and has treated approximately 1,230,000 gallons of impacted groundwater. This yields an average of approximately 2,000 gallons per day, with a daily maximum of 5,000 gallons. The results of laboratory analysis of the treated effluent can be found in Table 1, which also shows the volume of water treated. The system is monitored at least once per week, and has been sampled monthly as of July 2001. This allows for the maximum use of the activated carbon column without allowing the discharge of any contaminated groundwater to the sewer system. The system activity and laboratory results had been reported to EBMUD semi-annually in the past and now are reported to EBMUD quarterly.

TABLES

Table 1: Total Volume of Water Treated and Effluent Chemistry
Tony's Auto Express, Oakland, California

	Date Sampling & Read	Total Volume** (Gallons)	Lab Results For GAC-1 and PSP* (concentrations in ug/L)					Total Xylene
			MTBE	TPH-g	Benzene	Toluene	Ethylbenzene	
October								
September								
August								
	8/3/01	1,232,480						
July	7/25/01	1,227,270	ND	ND	ND	ND	ND	ND
			NA	NA	NA	NA	NA	NA
	7/11/01	1,226,730						
June	6/29/01	1,224,600	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
	6/16/01	1,216,580						
	6/7/01	1,216,580						
May	5/30/01	1,205,190						
	5/23/01	1,194,390						
	5/17/01	1,182,360	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
	5/10/01	1,166,850						
	5/5/01	1,151,600						
April	4/28/01	1,135,690						
	4/21/01	1,113,570						
	4/11/01	1,082,700	ND	ND	ND	ND	ND	ND

Table 1: Total Volume of Water Treated and Effluent Chemistry
Tony's Auto Express, Oakland, California

	Date Sampling & Read	Total Volume** (Gallons)	Lab Results For GAC-1 and PSP* (concentrations in ug/L)					
			MTBE	TPH-g	Benzene	Toluene	Ethylbenzene	Total Xylene
			ND	ND	ND	ND	ND	ND
	4/6/01	1,065,540						
March	3/29/01	1,036,300	System restarted.					
	3/21/01	1,036,000	System off - belt replaced on compressor.					
	3/17/01	1,035,100						
	3/13/01	1,032,500	ND	ND	ND	ND	ND	ND
	3/2/01	996,520						
	3/1/01		System restarted.					
February	2/10/01		System shut down for maintenance and cleaning.					
	2/8/01	975,490						
January	1/29/01	957,880	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
	1/12/01	927,200						
	1/4/01	921,790						
December	12/5/00	883,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
November	11/24/01		ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
	11/14/00	854,000						
	11/1/00	842,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
October	10/25/00	825,000						
	10/20/00	821,000						
	10/19/00	820,000						
	10/14/00	818,000						

Table 1: Total Volume of Water Treated and Effluent Chemistry
Tony's Auto Express, Oakland, California

	Date Sampling & Read	Total Volume** (Gallons)	Lab Results For GAC-1 and PSP* (concentrations in ug/L)					Total Xylene
			MTBE	TPH-g	Benzene	Toluene	Ethylbenzene	
	10/8/00	814,000						
	10/5/00	812,000						
	10/1/00	809,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
September	9/28/00	807,000						
	9/18/00		ND	ND	ND	ND	ND	ND
	9/14/00	797,000						
	9/4/00	788,000						
August	8/31/00	785,000						
	8/27/00	781,000	ND	ND	ND	ND	ND	ND
	8/24/00	778,000						
July	07/26/200	726,000	ND	ND	ND	ND	ND	ND
	07/19/200	718,000	ND	ND	ND	ND	ND	ND
	07/13/200	712,000	ND	ND	ND	ND	ND	ND
	07/07/200	706,000	ND	ND	ND	ND	ND	ND
June	06/29/00	700,000	ND	ND	ND	ND	ND	ND
	06/21/00	682,220	ND	ND	ND	ND	ND	ND
	06/16/00	669,720	ND	ND	ND	ND	ND	ND
	06/10/00	651,200	ND	ND	ND	ND	ND	ND
	06/02/00		ND	ND	ND	ND	ND	ND
May	05/31/00	629,000						
	05/23/00	603,700	ND	ND	ND	ND	ND	ND
	05/18/00	570,000	ND	ND	ND	ND	ND	ND
	05/10/00	530,400	ND	ND	ND	ND	ND	ND
April	04/30/00	488,300	ND	ND	ND	ND	ND	ND
	04/18/00	485,300	ND	ND	ND	ND	ND	0.51

Table 1: Total Volume of Water Treated and Effluent Chemistry
Tony's Auto Express, Oakland, California

	Date Sampling & Read	Total Volume** (Gallons)	Lab Results For GAC-1 and PSP* (concentrations in ug/L)					Total Xylene
			MTBE	TPH-g	Benzene	Toluene	Ethylbenzene	
	04/10/00	440,200	ND	ND	ND	ND	ND	ND
	04/04/00	390,100	ND	ND	ND	ND	ND	ND
March								
	03/24/00	388,000	ND	ND	ND	ND	ND	ND
	03/17/00	357,100	ND	ND	ND	ND	ND	ND
	03/10/00	329,000	ND	ND	ND	ND	ND	ND
	03/03/00	300,000						
February								
	02/25/00	274,000	ND	ND	ND	ND	ND	ND
	02/18/00	233,000	ND	ND	ND	ND	ND	ND
	02/11/00	190,000	ND	ND	ND	ND	ND	ND
	02/04/00	160,800	ND	ND	ND	ND	ND	ND
January								
	01/28/00	130,600	ND	ND	ND	ND	ND	ND
	01/21/00	103,435	ND	ND	ND	ND	ND	ND
	01/14/00	83,500	185	ND	ND	ND	ND	ND
December								
	12/23/99	51,680	1486	NA	ND	ND	ND	ND
	12/23/99		ND	NA	ND	ND	ND	ND
	12/16/99	30,450	963	NA	ND	ND	ND	ND
	12/16/99		ND	NA	ND	ND	ND	ND
	12/09/99	9,000	230	ND	ND	ND	ND	ND

Pumping began on December 6, 1999

* PSP#1 formerly labeled Effluent or GAC-2

** Meter replaced at 775,000 gallons. Actual current reading of new meter is 775,000 gallons less than the total volume reported.

FIGURES

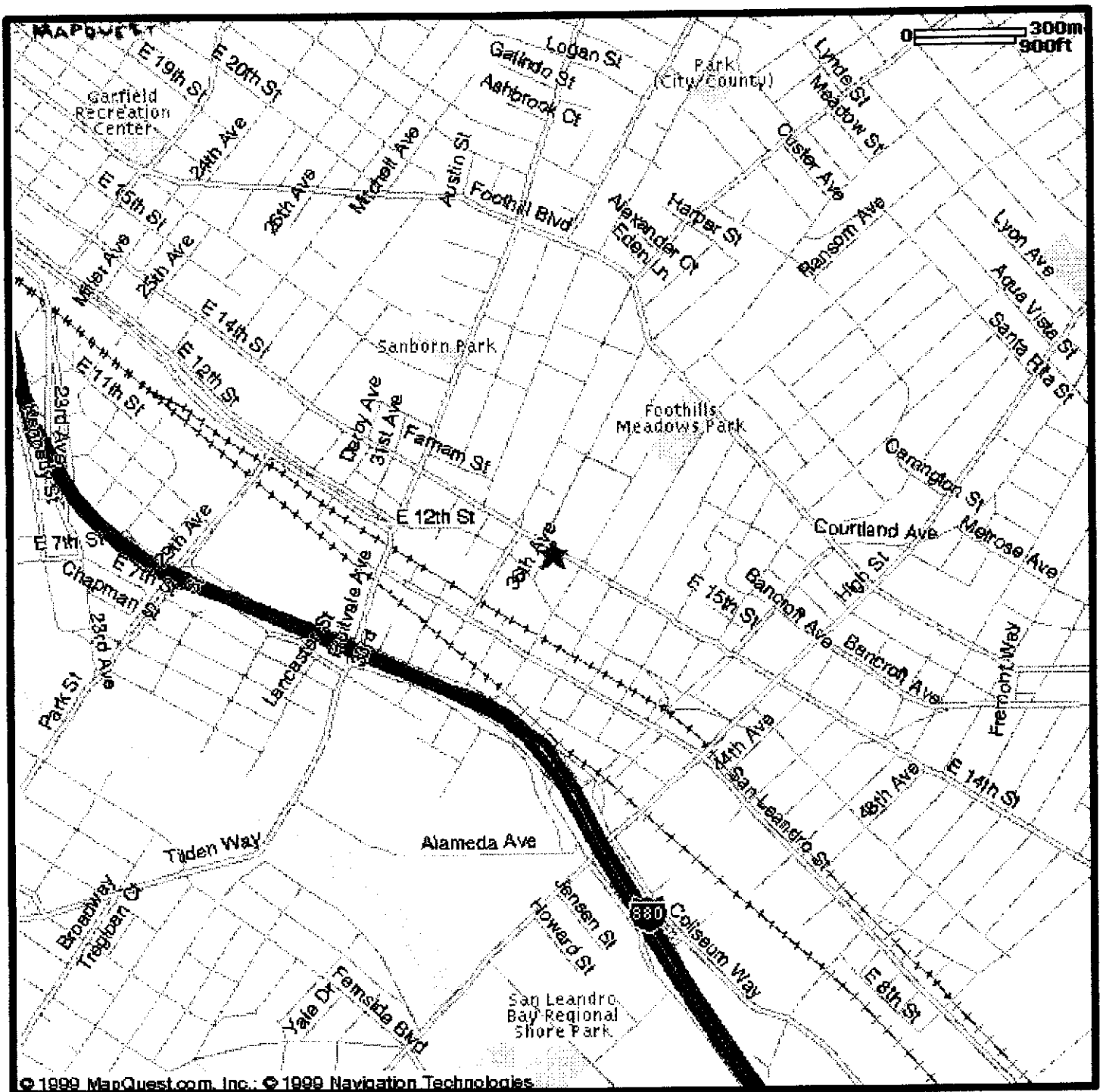


Figure 1: Site Location Map

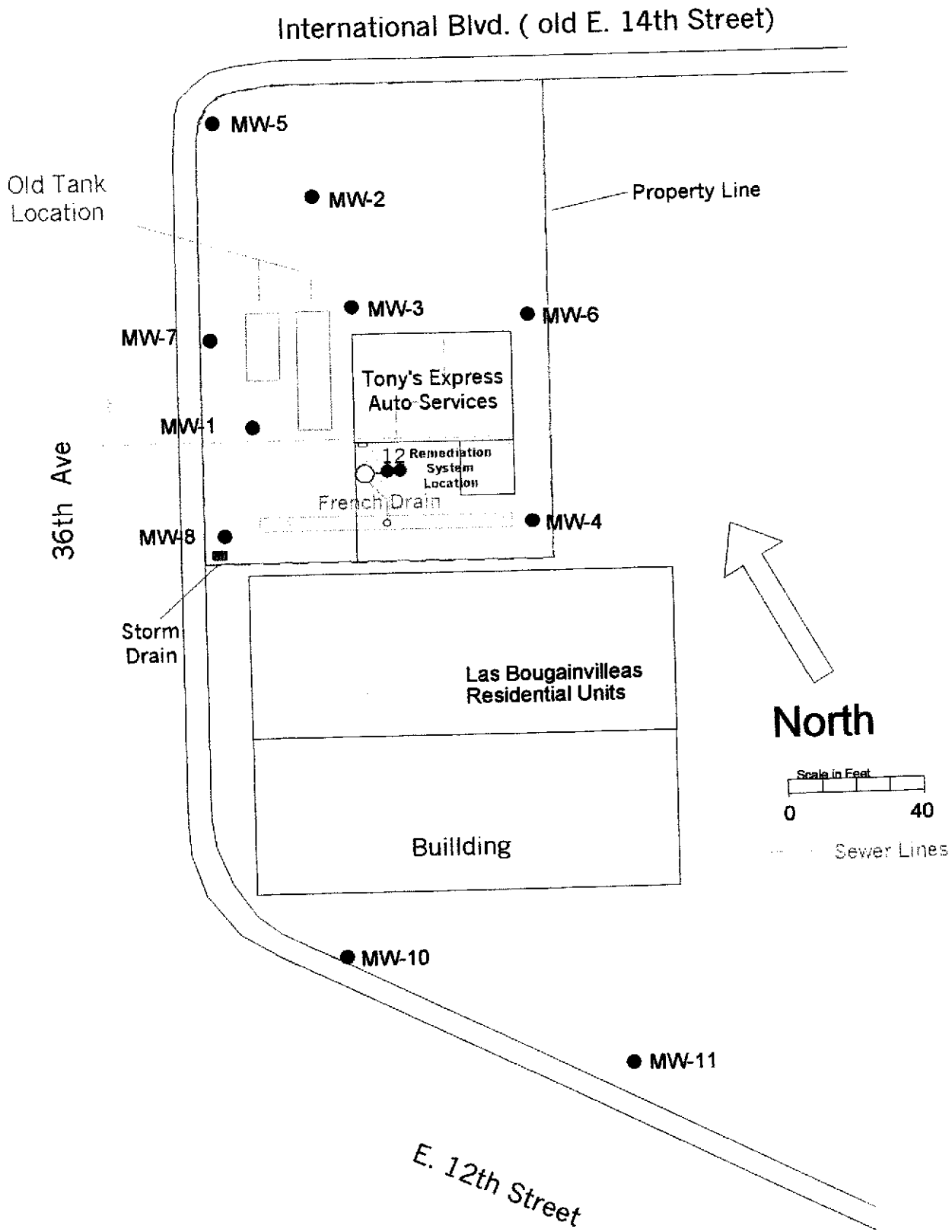


Figure 2: Building Layout

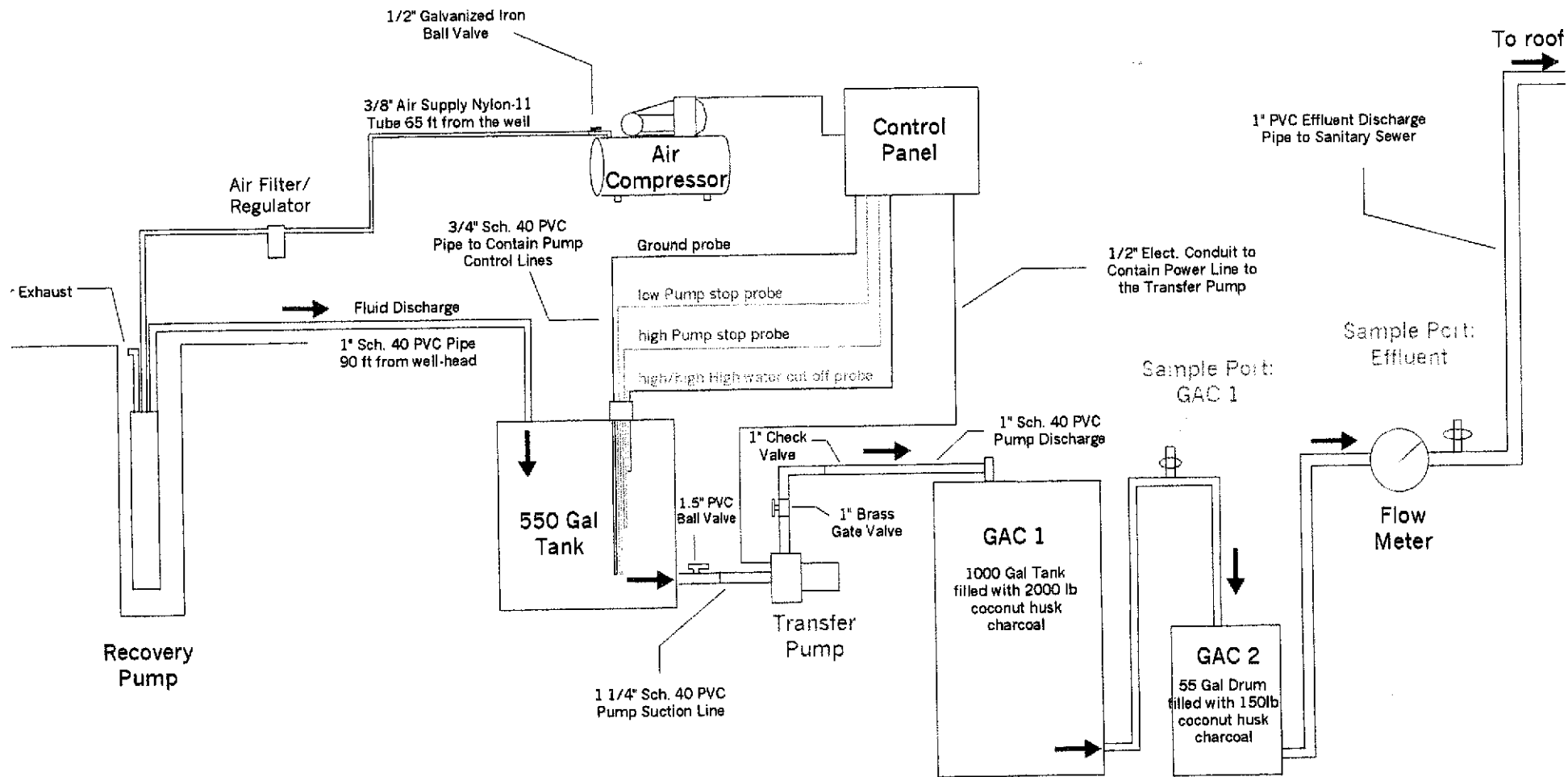


Figure 3: System Flow

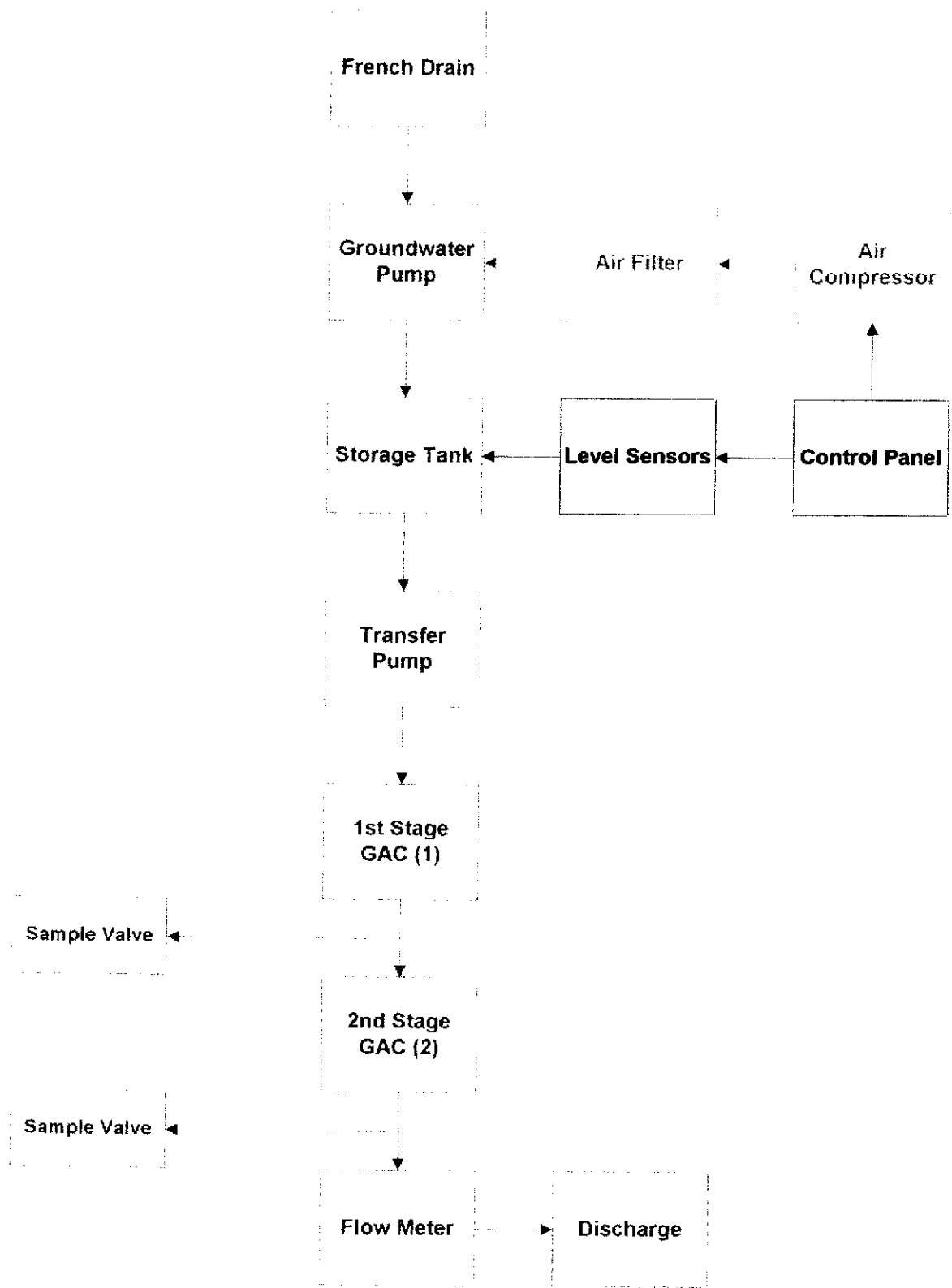


Figure 4: Schematic Diagram



APPENDIX A

INSTRUCTIONS FOR PROVIDING APPLICANT INFORMATION

CLEARLY TYPE OR PRINT THE INFORMATION REQUESTED AND RETURN THE SIGNED ORIGINAL TO EAST BAY MUNICIPAL UTILITY DISTRICT, WASTEWATER DEPARTMENT, MS 702, P.O. BOX 24055, OAKLAND, CALIFORNIA, 94623-1055

- **Applicant Business Name** - Enter the name or title of your business.
- **Person to be contacted in event of emergency** - Give the name and phone number(s) of the responsible person who can be contacted in case of emergency (e.g., spilling of a prohibited substance).
- **Address of Premises Discharging Wastewater** - Enter the full street address of the building or premises which is discharging the wastewater pertinent to this application.
- **Person to be contacted about this Application** - Provide the name, title and phone number of the person who is thoroughly familiar with the facts reported in this application and who can be contacted by the staff of EBMUD.
- **Facility Mailing Address** - Enter the business street address and the full mailing address.
- **Chief Executive Officer/Duly Authorized Representative** - Enter the full name and title of the Principal Executive or the Duly Authorized Representative of the business. Definition of a Duly Authorized Representative is in Section (c) of "Certification" below.
- **Certification** - Type or print the name and title of the person signing the application. All applications, reports, or information required by the District must contain the following certification statement and be signed as required in sections (a), (b), or (c) below. (Use whichever alternative best applies).
 - a. By a responsible corporate officer, if the Permit Holder submitting the reports is a corporation. For the purpose of this paragraph, a responsible corporate officer means:
 - i. a president, secretary, treasurer, or vice-president of the corporation in charge of a principle business function, or any other person who performs similar policy - or decision-making functions for the corporation, or
 - ii. the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - b. By a general partner or proprietor if the Permit Holder submitting the reports is a partnership or sole proprietorship respectively.
 - c. By a duly authorized representative of the individual designated in paragraph (a) or (b) of this section if:
 - i. the authorization is made in writing by the individual described in paragraph (a) or (b);
 - ii. the authorization specifies either an individual or 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 having overall responsibility for environmental matters for the company; and
 - iii. the written authorization is submitted to the District.
 - d. If an authorization under paragraph (c) of this section 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 (c) of this section must be submitted to the District prior to or together with any reports to be signed by an authorized representative.



WASTEWATER DISCHARGE PERMIT

Terms and Conditions

FACILITY NAME Tony's Express Auto Svc. 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

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.

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

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: water pumped from french drain at the rear of the property for treatment

Total Number of Employees Total 5

	Office		Production (number of employees per shift)					
	No.	Hours	Day Shift		Swing shift		Night shift	
			No.	Hours	No.	Hours	No.	Hours
Weekday	2	9am to 6pm	3	9am to 6pm	1	6pm to 2am	1	2am to 9am
Saturday		to	1	12am to 12am		to		to
Sunday		to	1	12am to 12am		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	
1	W	100									100
32311782	S	100									100

INSTRUCTIONS FOR COMPLETING WATER SOURCE AND USE

Type or print the information. This form is to be completed by all dischargers who seek a wastewater discharge permit.

PROVIDE CALCULATIONS TO SUPPORT ALL FIGURES

Water Use and Disposition - Estimate the water received and wastewater discharged in gallons per day for the preceding year. For the water that is received from other than EBMUD services or discharged to other than community sanitary sewers, enter the appropriate letter in the column headed "Source" or "Discharge To".

The total supply from EBMUD should be checked using recent water bills to verify the estimates.

Total Number of Employees - Enter the average number of office and production employees at the premises daily during the preceding year. If there is more than one shift per day, enter the average number of employees per shift and the duration.

Source of Wastewater Discharged - Show the percentage of source water on each water meter discharged to each side sewer.

Step 1. Enter the number of each meter (EBMUD and private) serving the premises.

Step 2. For each meter enter the percentage of metered water discharged to each side sewer. If you have more than one side sewer, SHOW ON A SEPARATE PAGE THE METHOD AND CALCULATIONS USED TO DETERMINE THE PROPORTIONING to the side sewers.

Step 3. Enter the total percentage discharged to all side sewers for each water meter by adding the figures in each side sewer column.

Step 4. Enter the appropriate use code as described below in the use code column.

METER USE CODES

I	Irrigation
S	Sanitary
F	Sewage Flow
W	Well
C	Cooling Tower
B	Boiler
X	Product
V	Vessel
T	Time Elapse

WASTEWATER DISCHARGE PERMIT

Terms and Conditions

PROCESS DESCRIPTION

FACILITY NAME Tony's Auto Express Svc.

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 504-27421

BUSINESS ACTIVITY Standard Industrial Classification Gas Svc. Station Business Classification Code 6200

DESCRIPTION OF PRODUCT

TYPE OF PRODUCT OR BRAND NAME	QUANTITIES - INDICATE UNITS	
	8/00 to 8/01 Mo. Year Mo. Year	8/01 to 8/02 Mo. Year Mo. Year
Gasoline Contaminated Groundwater	1,300 gal/day	475,000

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>
Groundwater Extraction	BTEX, MtBE	1,2

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.

Groundwater with benzene and MtBE concentrations up to 4,000 and 2,000 mg/L, respectively. Pumped thru a 2,000 pound then a 150 pound activated carbon unit. Then discharged to sewer line in the building at the site.

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 CAL 000181789

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
clear water	gasoline contaminated water			5 gallons



WASTEWATER DISCHARGE PERMIT

Terms and Conditions STRENGTH SUMMARY

FACILITY NAME Tony's Auto Express Svc.**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

Side Sewer No. N/A Side Sewer Location on-site sewer**Wastewater Flow Rate**

Peak Hourly (gallons/minute)	Maximum Daily (gallons/day)	Annual Daily Average (gallons/day)	Max. Monthly (CCF *)
20	5,000	1,300	133

* CCF = hundred cubic feet = 748 gallons

Discharge Frequency

Discharge Period	Batch Discharge(s)
<input checked="" type="checkbox"/> Continuous <input type="checkbox"/> 24 hrs./day <input type="checkbox"/> 365 day/year; or a. Time of day from _____ to _____ b. Days of the week _____	a. Day(s) of the week _____ b. Time(s) of the day _____ c. Volume discharged _____ d. Rate of Discharge _____

Stormwater Area - Total area in square feet exposed to stormwater, rainwater, and groundwater and draining to this side sewer
0 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	0	0
Filtered Chemical Oxygen Demand (CODF)	mg/L	0	0

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 Curtis & Tompkins, Ltd. Telephone (510) 486-0900Street 2323 Fifth Street City Berkeley State CA Zip 94710Certificate Number 01107CA

GENERAL INSTRUCTIONS FOR COMPLETING THE STRENGTH SUMMARY

Type or print the information. This form is to be completed by all businesses who require Wastewater Strength Determination. Use a separate sheet for **each side sewer** that discharges wastewater to a community sewer. (NOTE: Side sewer is a sewer conveying the wastewater of a discharger from a residence building or other structure to a community sewer.)

Side Sewer No. - Enter the side sewer number for which this part of the form has been completed. Use the same number as shown on Building Layout.

Wastewater Flow Rate - Estimate the peak hourly discharge rates from the premises (i.e. the quantity which might be discharged during any one hour). The maximum daily discharge rate is the greatest flow which might be discharged in any one work day. The annual daily average is the flow for an average workday taken over one year of operation. The maximum monthly flow is the total flow during a month where total flow is at a maximum.

Batch Discharge - A batch discharge is one which results from the draining of storage tanks or process tanks; intermittent boiler blowdown, etc., to the side sewer.

- a. Enter the number of batch discharges per month during the operating season of maximum flow. If there are no batch discharges to the side sewer, enter "none".
- b. Enter the days of the week the discharge occurs and the times of the day the discharge usually occurs.
- c. Enter the average gallons discharged during each batch discharge operation.
- d. Enter the rate of flow in the side sewer from the batch discharges.

i.e. Rate of flow from the batch discharge =
$$\frac{\text{Number of gallons in batch discharge}}{\text{duration for a single discharge}}$$

Stormwater Area - Enter an estimate of the total area (in square feet) which collects and discharges stormwater to the side sewer (include roof and ground level areas).

Wastewater Strength Estimates - Enter the average and maximum concentration of each of the indicated elements of wastewater strength for this side sewer. The average strength should approximate the average strength during the year.

i.e. Average strength =
$$\frac{\text{Total annual mass}}{\text{Total annual volume of water discharged}}$$

The "Maximum Strength" is the maximum concentration that would be measured in any grab sample taken at any time during the year from this side sewer. If these values are acceptable to EBMUD, they will become the basis for sewage disposal charges and average and maximum limits on the elements of the discharger's wastewater strength.



WASTEWATER DISCHARGE PERMIT

REVISION EFFECTIVE JULY 1, 2000 Terms and Conditions

Tony's Express Auto Service
Permit No. 504-27421
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 Tony's Express Auto Service'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 Tony's Express Auto Service to discharge treated groundwater from 3609 International Boulevard in Oakland.
- III. Tony's Express Auto Service shall cease discharge of groundwater immediately if not in compliance with any of the Terms and Conditions of this Permit.
- IV. Tony's Express Auto Service shall comply with all items of the attached STANDARD TERMS AND CONDITIONS, July 2000 Edition.

COMPLIANCE REQUIREMENTS

- I. Tony's Express Auto Service shall not discharge any treated wastewater that is known to be, or suspected of, violating wastewater discharge limitations.
- II. Tony's Express Auto Service shall pretreat all groundwater before discharging to the sanitary sewer at 3609 International Boulevard in Oakland. Pretreatment shall consist of a minimum of processes displayed in the *Tony's Express Auto Service System Flow Diagram (Figure 3)*.
- III. Tony's Express Auto Service shall maintain the pretreatment system in proper operating condition.
- IV. Tony's Express Auto Service 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.

Tony's Express Auto Service
Permit No. 504-27421
Page No. 2

REPORTING REQUIREMENTS

- I. Violations shall be reported in accordance with Section B, Paragraph II of STANDARD TERMS AND CONDITIONS, July 2000 Edition.
- II. Tony's Express Auto Service shall submit technical reports due on the following dates:

<u>Date Due</u>	<u>Reporting Period</u>
June 14, 2000	November 15, 1999, through May 14, 2000
December 14, 2000	May 15, 2000 through November 14, 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 STANDARD TERMS AND CONDITIONS, July 2000 Edition, "Signature Requirements".

WASTEWATER DISCHARGE LIMITATIONS

Tony's Express Auto Service 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



WASTEWATER DISCHARGE PERMIT

REVISION EFFECTIVE JULY 1, 2000 Terms and Conditions

Tony's Express Auto Service
Permit No. 504-27421
Page No. 3

SELF-MONITORING REPORTING REQUIREMENTS

- I. Tony's Express Auto Service shall monitor and sample the wastewater discharge into the community sewer in accordance with Section C of STANDARD TERMS AND CONDITIONS, July 2000 Edition. 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 second (final) Liquid Phase GAC. This sample location shall be referred to as Process Sample Point #1 (PSP #1) in all reports. PSP #1 is shown in Tony's Express Auto Service System Flow Diagram (Figure 3) and Schematic Flow (Figure 4).
- IV. Tony's Express Auto Service shall sample wastewater from PSP #1, at a minimum, quarterly 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



WASTEWATER DISCHARGE PERMIT

REVISION EFFECTIVE JULY 1, 2000 Terms and Conditions

Tony's Express Auto Service
Permit No. 504-27421
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	\$127.00	\$254.00
Total Monitoring and Testing Charge =			\$1,334.00 / year \$111.17 / 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 =	\$0.40 /Ccf	
Discharge Volume =	293 Ccf/mo.	(based on 7,200 gpd average)
Wastewater Disposal Charge =	\$117.20 /mo.	

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 14,000 gpd or 569 Ccf/month.

Capacity Fee Rate for Flow: \$ 47.71/Ccf/Mo. * 569Ccf/mo. =	\$27,146.99
CODF: 15mg/l * 0.00624 * 569 Ccf/mo. = 53lbs.	
Capacity Fee Rate for CODF: (\$8.68/lb/mo.) = 53 lbs * \$8.68/lb/mo.	\$460.04
TSS: 2 mg/l * 0.00624 *569 Ccf/mo. = 7.1 lbs	
Capacity Fee Rate for TSS: (\$19.30/lb/mo.) = 7.1 lbs * \$ 19.30/lb/mo/	\$137.03
Total Capacity Fee =	\$27,744.06
Monthly Capacity Fee over 36 months =	\$770.67