HYDROCARBON RECOVERY SYSTEM INSTALLATION
GREYHOUND TERMINAL
LOCATION 8934
Oakland, California

PREPARED FOR

GREYHOUND LINES, INC.

Dallas, Texas

PREPARED BY

ES

ENGINEERING-SCIENCE

Liverpool, New York

DECEMBER 1992

SY139.44

NOTICE TO INTERESTED PARTIES

To achieve the study objectives stated in this report, we were required to base our conclusions on the best information available during the period of the investigation and within the limits prescribed by our client in the agreement.

No investigative method can completely eliminate the possibility of obtaining partially imprecise or incomplete information. Thus, we cannot guarantee that the investigations completely defined the degree or extent of any contamination by hazardous or otherwise harmful substances described in the report or, if no such contamination was found, its absolute absence. Professional judgment was exercised in gathering and analyzing the information obtained, and we commit ourselves to the usual care, thoroughness, and competence of the engineering profession.

This report is not a legal opinion. It does not necessarily comply with requirements defined in any environmental law such as the "innocent landowner defense" or "due diligence inquiry". Only legal counsel retained by you is competent to determine the legal implications for you of any information or conclusions in this report.

Except as expressly provided for in our agreement with our client, Engineering-Science is not responsible for any effect upon the legal rights, obligations, or liabilities of any party or for any effect on the financeability, marketability, or value of the property investigated in the study or for the occurrence or non-occurrence of any transaction involving the property.

Project Engineer/Scientist

Technical Reviewer

ES
ENGINEERING-SCIENCE, INC.

290 ELWOOD DAVIS ROAD
SUITE 312
LIVERPOOL, NY 13088
TEL: (315) 451-9560
FAX: (315) 451-9570

December 18, 1992

Ms. Susan Hugo
Alameda County Department
of Environmental Health
80 Swan Way
Oakland, CA 94621

Re: Greyhound Terminal
Location 8934
Oakland, California
Hydrocarbon Recovery System Installation/Monitoring

Dear Ms. Hugo:

On behalf of Greyhound Lines, Inc. (GLI), Engineering-Science, Inc. (ES) is pleased to submit this report summarizing recovery system installation activities at Greyhound's terminal located at 2103 San Pablo Avenue in Oakland, California.

The hydrocarbon recovery system was designed to be an automated system capable of addressing the present contamination concerns at the site. The objective of the recovery system is to recover free phase hydrocarbons floating atop the water table in the vicinity of the former UST system located along the west side of the building. The recovery system is versatile enough to remediate the dissolved phase hydrocarbons, since total fluids pumps are utilized. A discussion of the components, installation, and monitoring of the recovery system is provided herein.

If you have any questions or require additional information, please contact us at (315) 451-9560.

Sincerely,

ENGINEERING-SCIENCE, INC.

Corey R. Averill
Project Engineer

Edward W. Roberts
Project Manager

David L. Chaffin, R.G.
California Registered Geologist

CRA/EWR/DLC/lml

cc: T. Portele, GLI, Dallas, TX
J.N. Baker, ES
D.A. Nickerson, ES

HYDROCARBON RECOVERY SYSTEM INSTALLATION

GREYHOUND TERMINAL

LOCATION 8934

OAKLAND, CALIFORNIA

PREPARED FOR

GREYHOUND LINES, INC.
DALLAS, TEXAS

PREPARED BY

ENGINEERING-SCIENCE, INC.
290 ELWOOD DAVIS ROAD
LIVERPOOL, NY 13088

DECEMBER 1992

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HYDROCARBON RECOVERY SYSTEM
GREYHOUND TERMINAL
LOCATION 8934
OAKLAND, CALIFORNIA

SYSTEM DESCRIPTION

The components of the hydrocarbon recovery system include the following: four 4-inch diameter recovery wells (30 feet deep), air supply and discharge lines, four pneumatic total fluids pumps, remote controllers, air solenoids/regulator, air compressor, free product/water separator, batch tank/sump with explosion-proof pump and level switches, high level shut-off sensors, and activated carbon adsorption columns (GAC). Figure 1 shows a plan layout of the recovery system.

The total fluids pumps are driven by a 5-horsepower, heavy-duty air compressor. The remote controllers and air solenoids/regulator will regulate the pressure and activate the pumps in each recovery well. In addition, a cable and crimp assembly is attached to the well head casing for adjusting the depth of the pump within each well.

The recovery system profile and layout are shown as Figures 2 and 3. The separator tank utilizes plate and Norpack coalescers to separate the groundwater from the free phase hydrocarbons. The free product is removed by a skimmer and stored in a product reservoir (55 gallon storage drum), which will be periodically pumped out by a waste hauler and transported to an approved reclamation facility. The separated groundwater flows by gravity from the separator tank into a batch tank and is subsequently pumped by an electric pump through two carbon columns in series. Pressure gauges and sampling ports installed in the fluid line prior to the first carbon column, between the two carbon columns, and following the second carbon column will allow monitoring of the performance of the system. The treated groundwater (effluent) flowing from the second carbon column is discharged to the sanitary sewer. The flowrate and volume pumped through the system will be monitored by a totalizing flow meter. High-level sensor probes are installed in the separator tank, batch tank, and product reservoir, and are operated by electrical control panels that will shut-down the recovery pumps during high level conditions. Additionally, the pump and level switch for the batch tank are operated by their own control panel.

The recovery system and air compressor are housed inside an industrial chain-linked fence with a locking gate. The fence provides security for the system and only personnel that have received prior authorization from Greyhound will gain access to this area.

SYSTEM INSTALLATION

Hydrocarbon recovery system installation activities commenced during the week of November 9, 1992. All construction permits, discharge permits, and air permits were obtained from the appropriate regulatory agencies prior to the commencement of installation activities. Activities through November 11, consisted of sawcutting the concrete and delivery of the recovery system components. On November 12 and 13 the subcontractor (Hazardous Substance Removal, Inc.) excavated the trenches from the four monitoring wells to the recovery system treatment area and from the treatment area to the discharge point. Four-inch

polyvinyl chloride (PVC) pipe was laid in the trenches and the respective product and air lines were pulled through each PVC sleeve to each monitoring well. The four pumps were all set one foot above the bottom of each well. After the well-head boxes were set and leveled, concrete was poured in the trenches to a level eight-inches below grade to conclude the work for the first week.

During November 16 through 20, 1992, activities began with the doweling and pouring of the final eight-inches of concrete in the trenches. The remainder of the construction for the week consisted of the electrical and mechanical installation (wiring of the system and the final plumbing) of the system components.

Construction of the vent piping, and repair of the existing fence that houses the recovery system was completed during the week of November 23. A photographic log detailing construction activities and system components is presented in Appendix A.

SYSTEM MONITORING/SAMPLE COLLECTION

The recovery system was designed to minimize the amount of maintenance required to ensure proper and continuous operation. Based on the potential for initial rapid recovery of free product, initially, a weekly system maintenance check will be performed by a field technician during the initial start-up and first eight weeks of operation. If it is determined after the initial eight weeks of system monitoring that weekly maintenance will not be required, ES will modify the monitoring schedule accordingly.

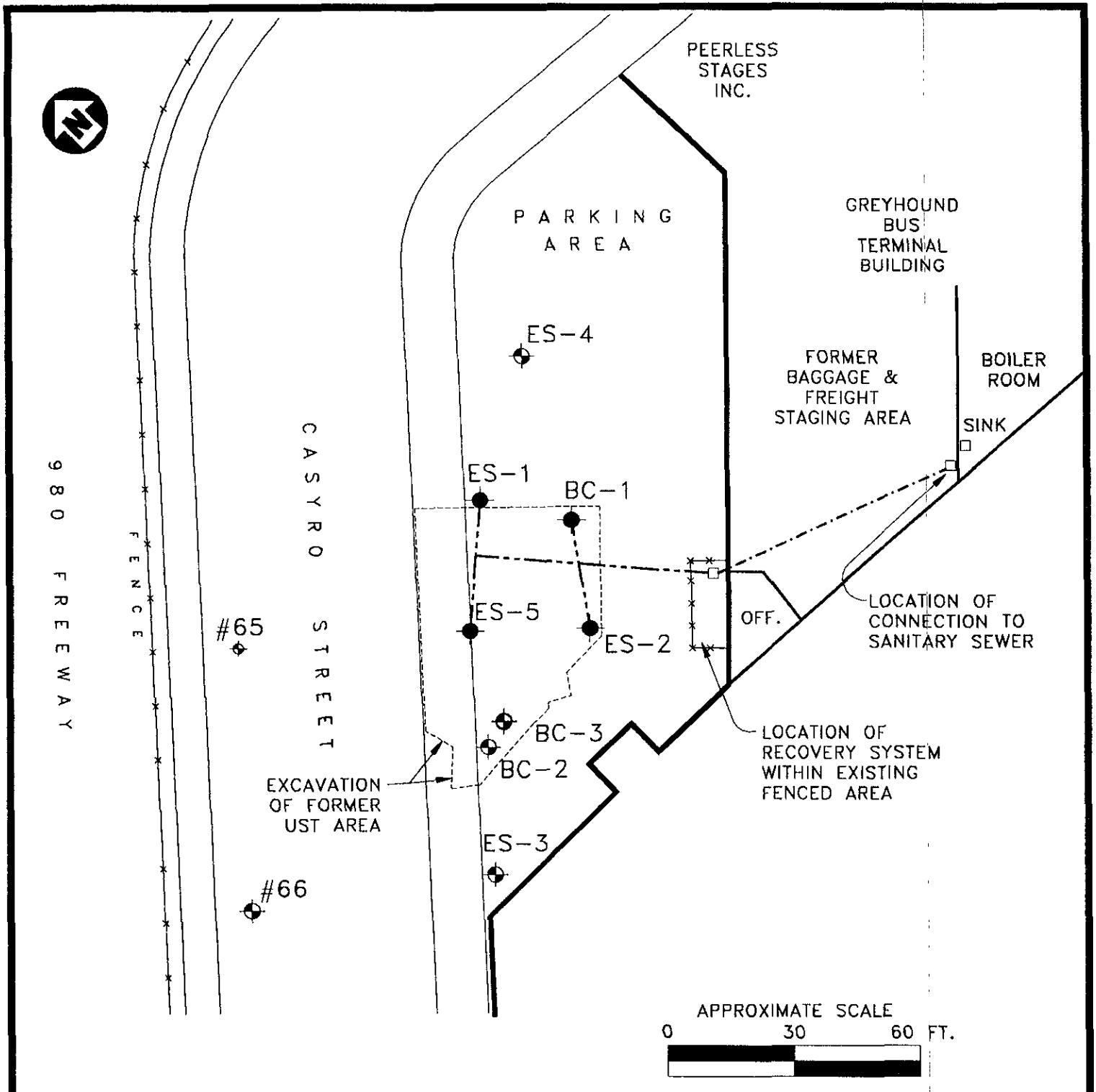
The weekly monitoring of the system will consist of a half-day visit by a field technician to check the system for proper operation. During each visit, the pumps will be inspected for fouling and efficient operation, and the level sensors, controllers, air compressor and associated piping will also be inspected. Additionally, each of the recovery wells will be checked for water level and free product thickness measurements. The product reservoir will be checked and whenever necessary, a waste hauler will be called to pump out and properly dispose of the recovered product off-site. System performance information will be recorded on data logs as provided in Appendix B.

Monitoring of the recovery system will include sample collection from sample locations "A", "B", and "C" (Figure 2) to ensure that the effluent from the system is in compliance with the discharge limits outlined in the permit issued by the East Bay Municipal Utility District (EBMUD).

Samples will be analyzed in accordance with EPA Method 624 and metals (arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel, silver and zinc). Sample collection frequency, as stipulated in the EBMUD discharge permit (Appendix C), are as follows:

- Initial sampling of the recovery system was conducted on December 7, 1992, after the volume from the precharged separator and carbon columns had been discharged. After the initial samples were collected, the system was shut down until authorization to discharge to the sewer is received from EBMUD.
- Week 1 through 4 of Recovery System Operation - One (1) sample per week per sampling location.
- After Week 4 of Recovery System Operation - One (1) sample per month per sampling location.

FIGURE 1



LEGEND

#66 / BC-3 — EXISTING MONITORING WELL

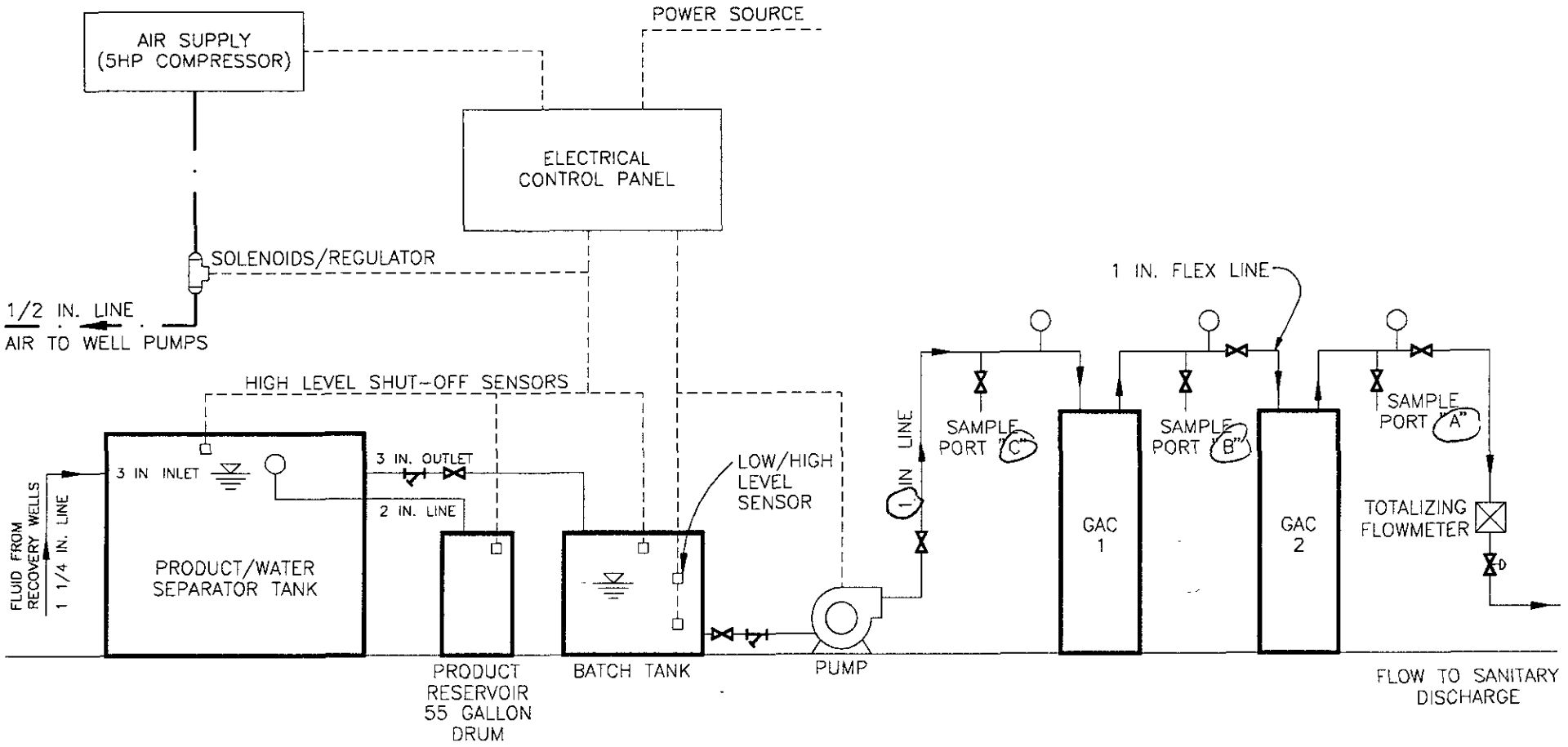
BC-1 / ES-2 — RECOVERY WELL

RECOVERY SYSTEM TRENCH

RECOVERY SYSTEM DISCHARGE LINE TO SANITARY SEWER

HYDROCARBON RECOVERY SYSTEM

GREYHOUND LINES, INC.
LOCATION 8934
2103 SAN PABLO AVENUE
OAKLAND, CALIFORNIA



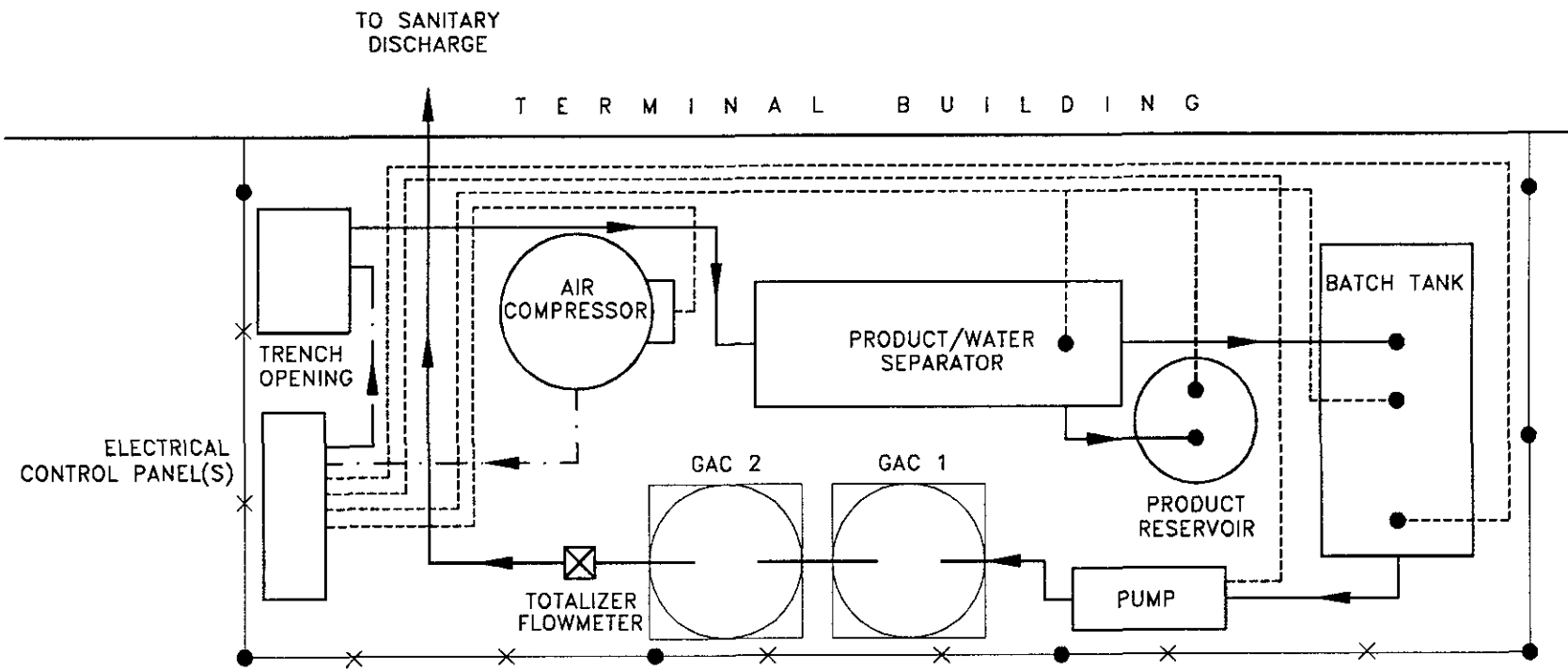
LEGEND:

- BALL OR GATE VALVE
- IN-LINE STRAINER
- VACUUM RELIEF VALVE
- PRESSURE GAUGE
- SAMPLE PORT
- FLUID LINES (SCHEDULE 40 PVC AND FLEX PRODUCT HOSE)
- ELECTRICAL LINES
- AIR LINES (200 TO 250 psi RATING)

HYDROCARBON RECOVERY SYSTEM

Greyhound Terminal Building
Location 8934
Oakland, California

FIGURE 2



NOTE:
GAC 3 TO BE USED
AS REPLACEMENT (STORED)
NOT SHOWN

LEGEND:

- FLUID LINES
- AIR LINES
- FENCED AREA
- ELECTRICAL LINES

NOT TO SCALE

HYDROCARBON RECOVERY SYSTEM LAYOUT

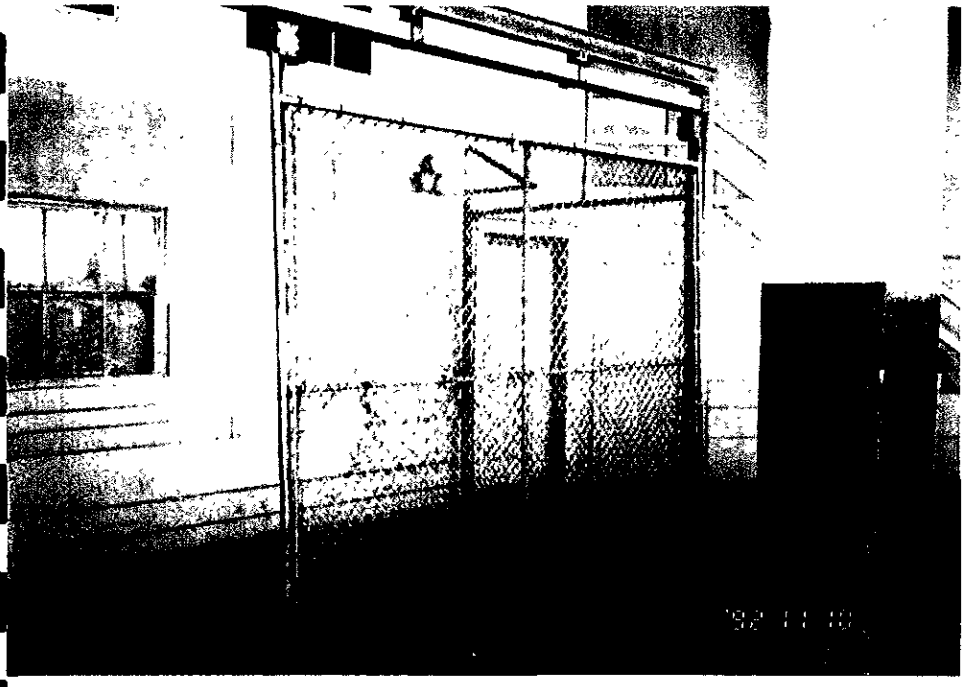
Greyhound Terminal Building
Location No. 8934
Oakland, California

FIGURE 3

APPENDIX A

PHOTOGRAPHIC LOGS OF RECOVERY SYSTEM INSTALLATION

PHOTOGRAPHIC LOG
ENGINEERING–SCIENCE, INC.



PROJECT: Recovery System
LOCATION: Oakland, CA
NUMBER: SY 139.44
CLIENT: Greyhound Lines Inc.

Date: November 10, 1992
Description: Fenced in treatment area prior to construction activities.

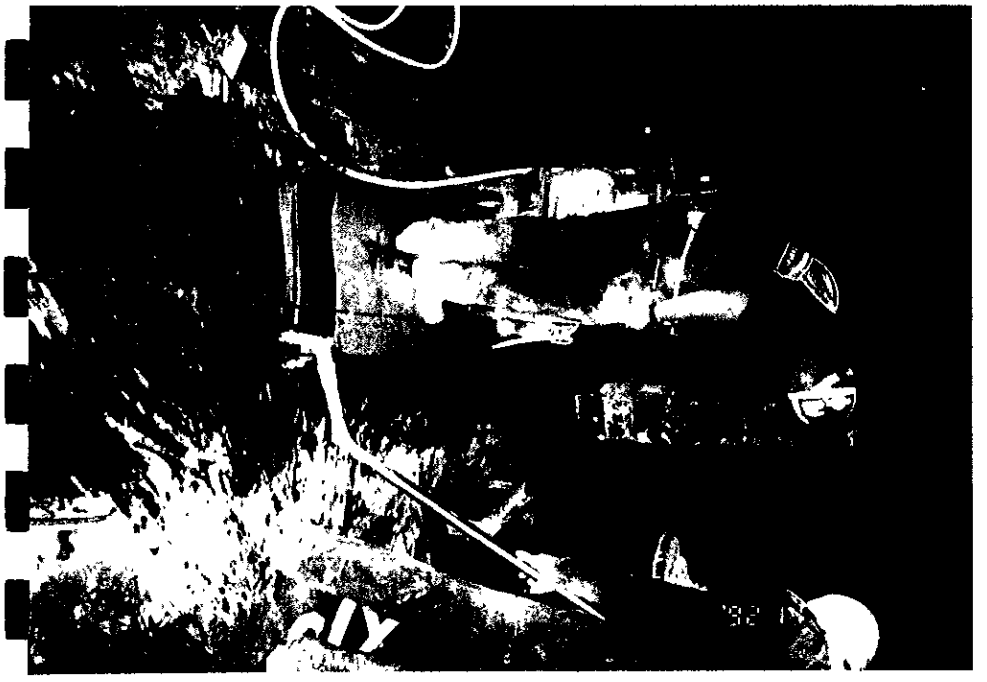
Photo By: CRA

Date: November 10, 1992
Description: Sawcut concrete trench Monitoring well ES–5 is in foreground.

Photo By: CRA

Date: November 10, 1992
Description: Sawcut trench from monitoring well BC–1 to monitoring well ES–2. Trench to recovery system is in foreground behind well BC–1.

Photo By: CRA



PHOTOGRAPHIC LOG
ENGINEERING–SCIENCE, INC.

PROJECT: Recovery System
LOCATION: Oakland, CA
NUMBER: SY 139.44
CLIENT: Greyhound Lines Inc.

Date: November 10, 1992
Description: Field crew sawcutting trench to discharge point inside terminal

Photo By: CRA

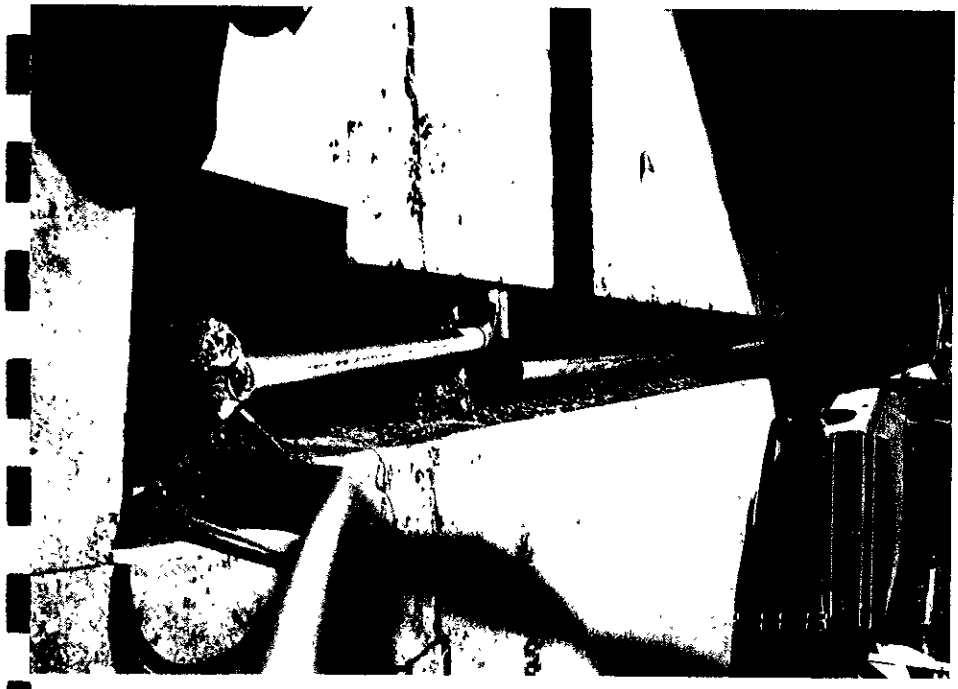
Date: November 12, 1992
Description: Broken up concrete prior to trench excavation.

Photo By: CRA

Date: November 13, 1992
Description: Excavated trench leading to discharge point inside terminal.

Photo By: CRA

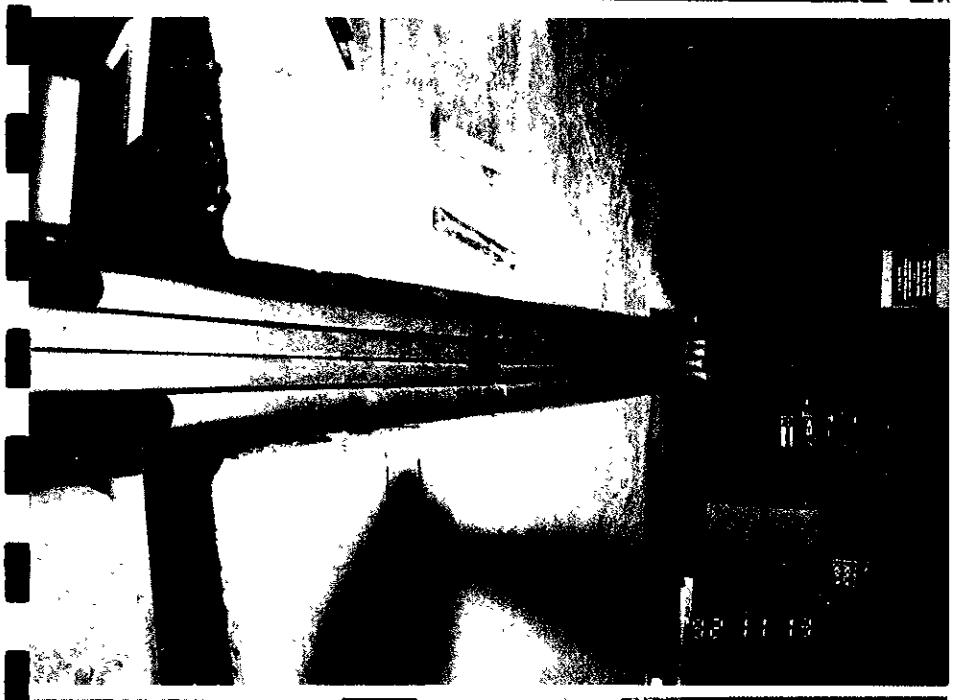
PHOTOGRAPHIC LOG
ENGINEERING–SCIENCE, INC.



PROJECT: Recovery System
LOCATION: Oakland, CA
NUMBER: SY 139.44
CLIENT: Greyhound Lines Inc.

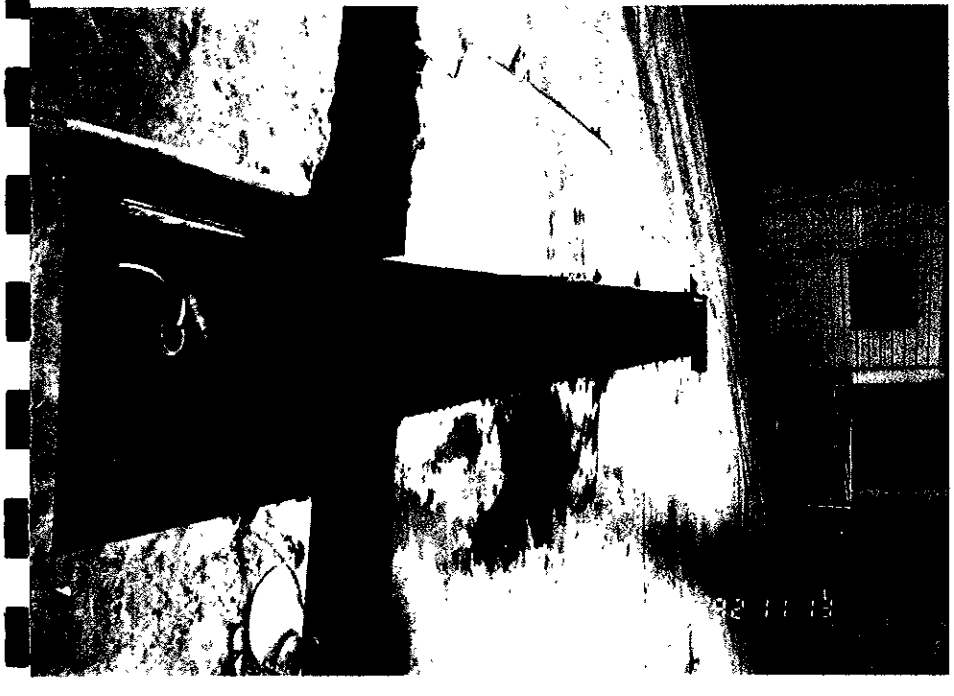
Date: November 13, 1992
Description: Excavated trenches from monitoring wells ES–1 and ES–5 to treatment area. PVC piping has been laid in trenches with 1/2 inch air lines and 1 inch product lines threaded through the PVC sleeves.

Photo By: CRA



Date: November 13, 1992
Description: The four PVC sleeves leading to the treatment area from the recovery wells.

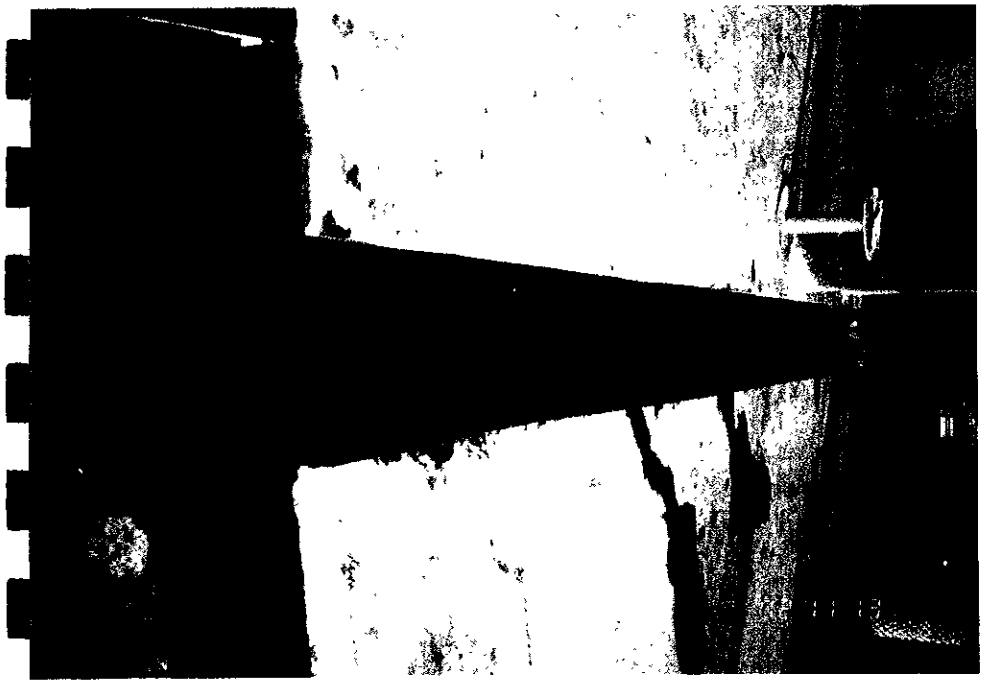
Photo By: CRA



Date: November 13, 1992
Description: The trenches were backfilled with concrete to a level 8 inches below grade. Well head boxes were set in place, slightly elevated to disperse surface runoff.

Photo By: CRA

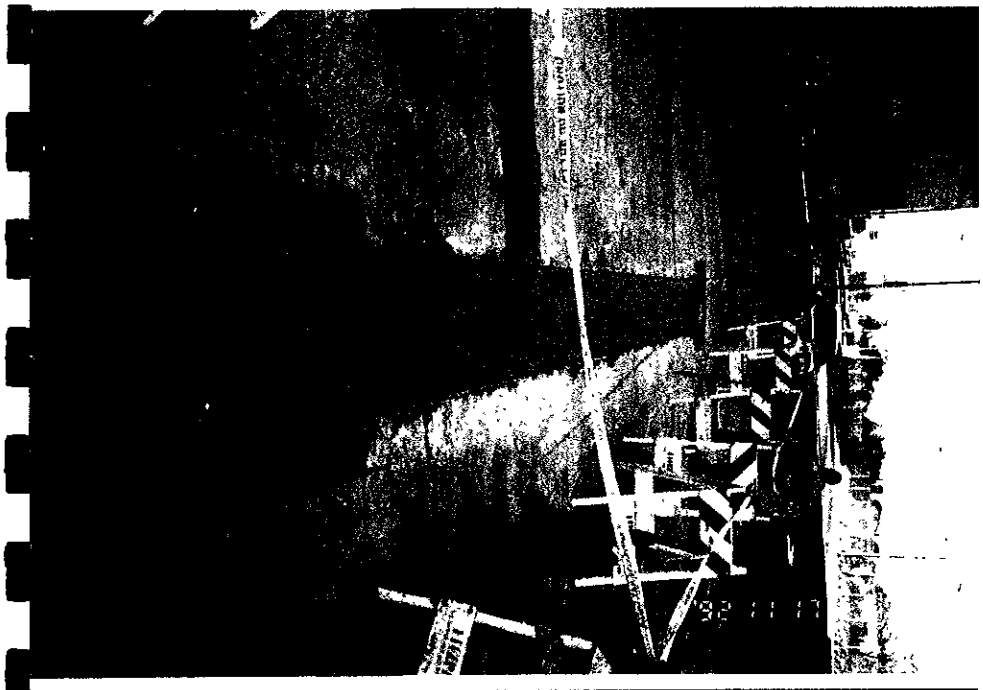
PHOTOGRAPHIC LOG
ENGINEERING–SCIENCE, INC.



PROJECT: Recovery System
LOCATION: Oakland, CA
NUMBER: SY 139.44
CLIENT: Greyhound Lines Inc.

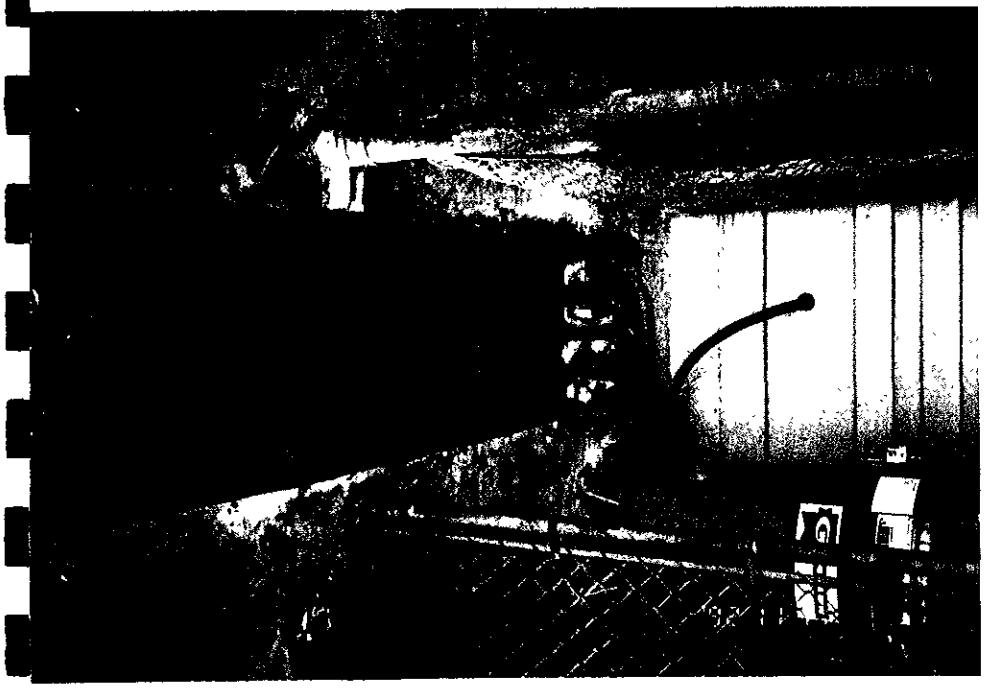
Date: November 13, 1992
Description: Alternate view of backfilled trenches.

Photo By: CRA



Date: November 17, 1992
Description: The final 8 inches of doweled, reinforced concrete poured to grade, broom finished and slightly crowned around well head boxes.

Photo By: CRA



Date: November 17, 1992
Description: Completely repaved trench in treatment area. Note: hose exiting treatment area through wall at rear of treatment area leads to discharge point.

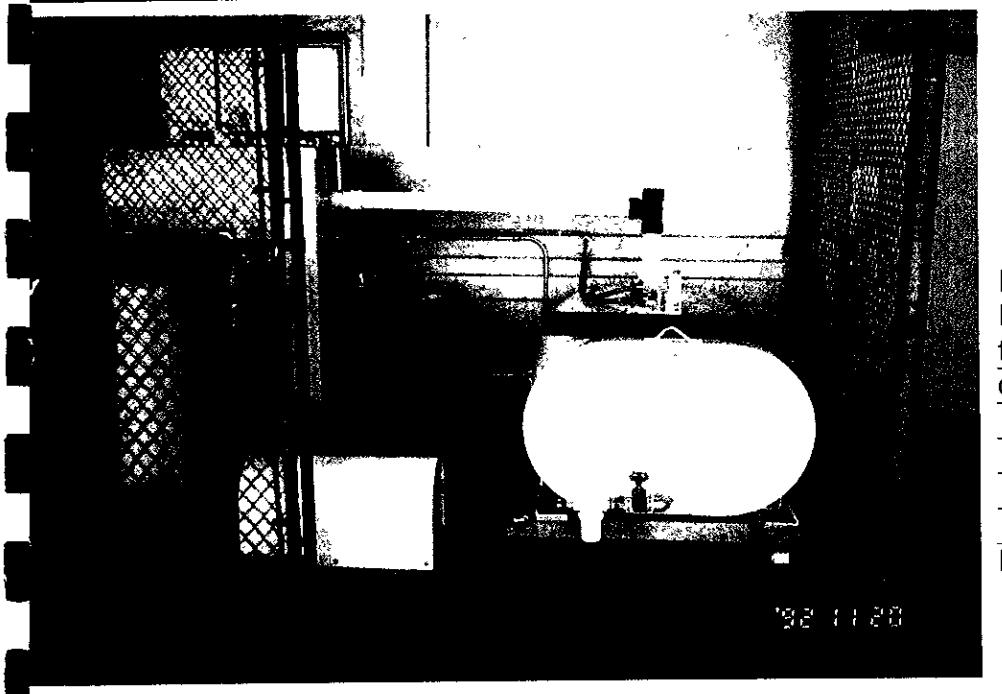
Photo By: CRA

PHOTOGRAPHIC LOG
ENGINEERING–SCIENCE, INC.

PROJECT: Recovery System
LOCATION: Oakland, CA
NUMBER: SY 139.44
CLIENT: Greyhound Lines Inc.

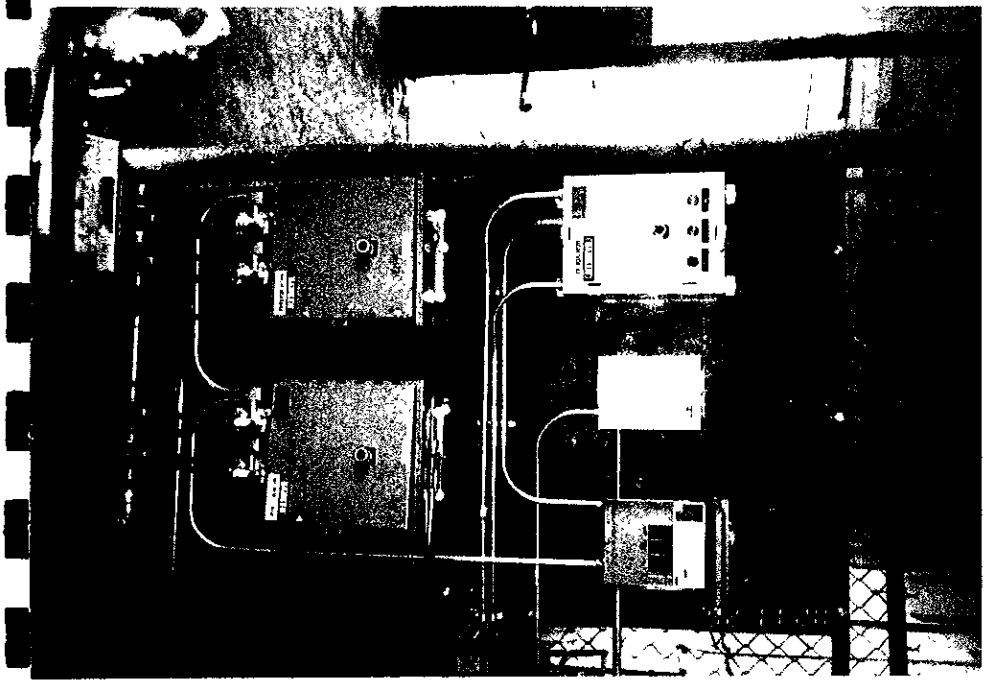
Date: November 20, 1992
Description: View of treatment area and recovery system components.

Photo By: CRA



Date: November 20, 1992
Description: Alternate view of treatment area and recovery system components.

Photo By: CRA

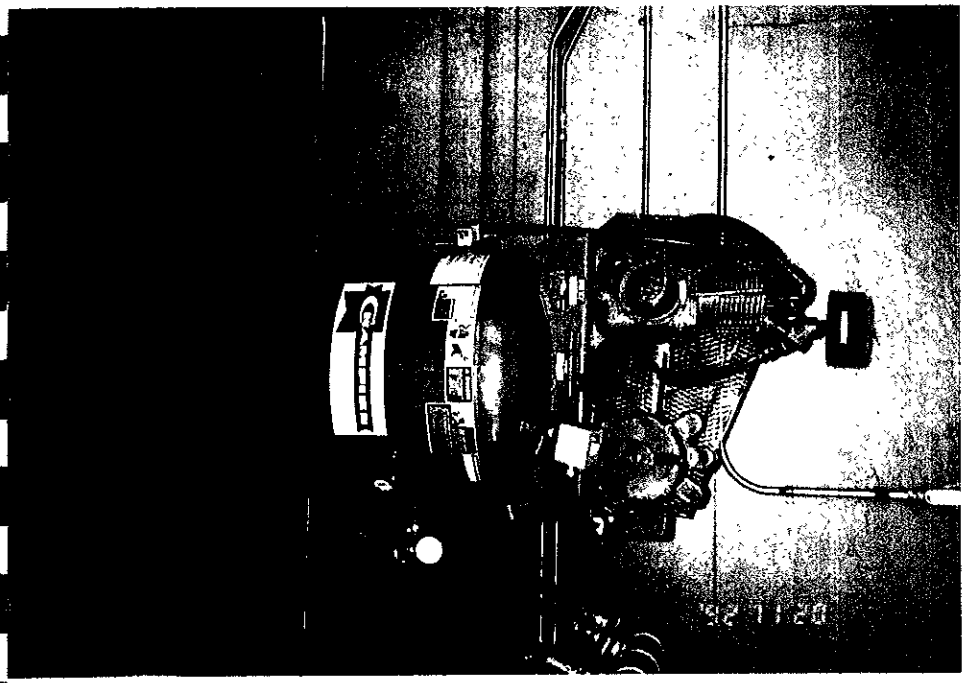


Date: November 20, 1992
Description: Electrical control panels for the system components.

Photo By: CRA

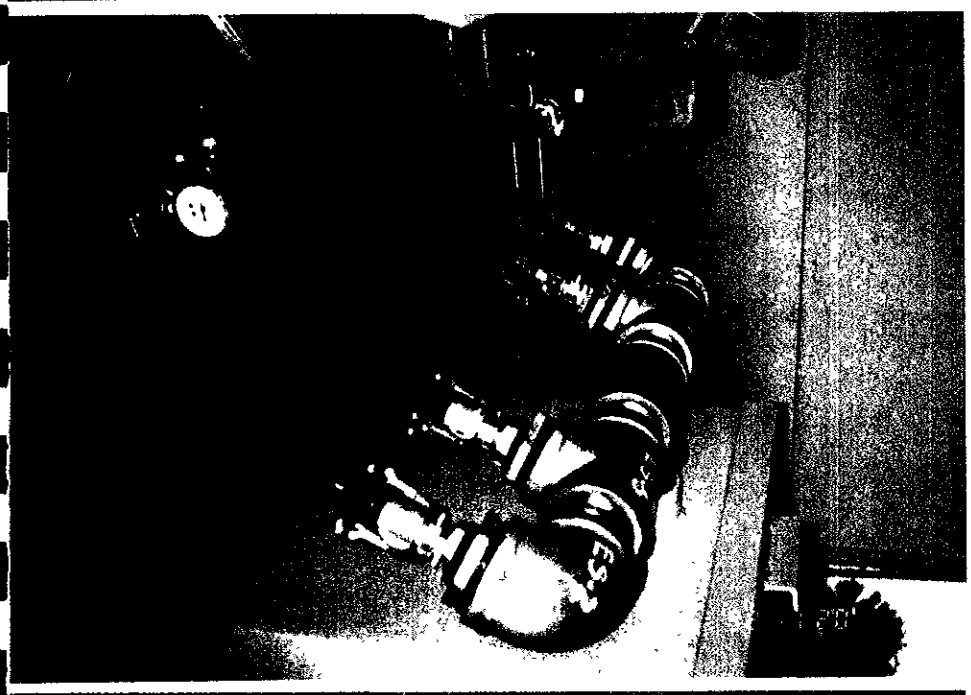
PHOTOGRAPHIC LOG
ENGINEERING–SCIENCE, INC.

PROJECT: Recovery System
LOCATION: Oakland, CA
NUMBER: SY 139.44
CLIENT: Greyhound Lines Inc.



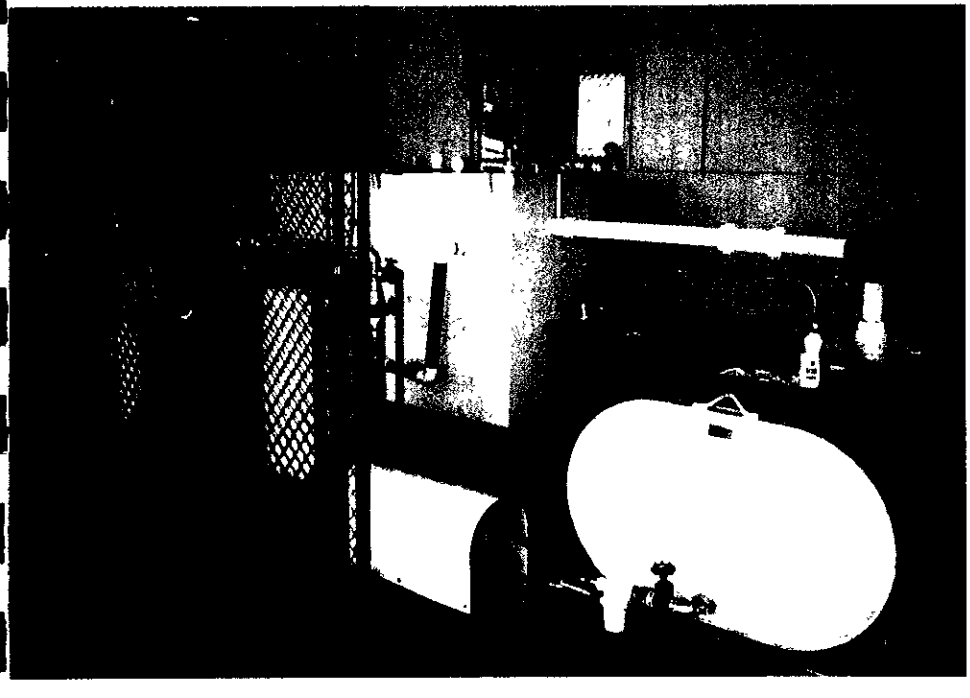
Date: November 20, 1992
Description: The 5 horsepower compressor which supplies air to the monitoring well pumps.

Photo By: CRA



Date: November 20, 1992
Description: The manifolded hose assembly coming from the four recovery wells to the separator tank.

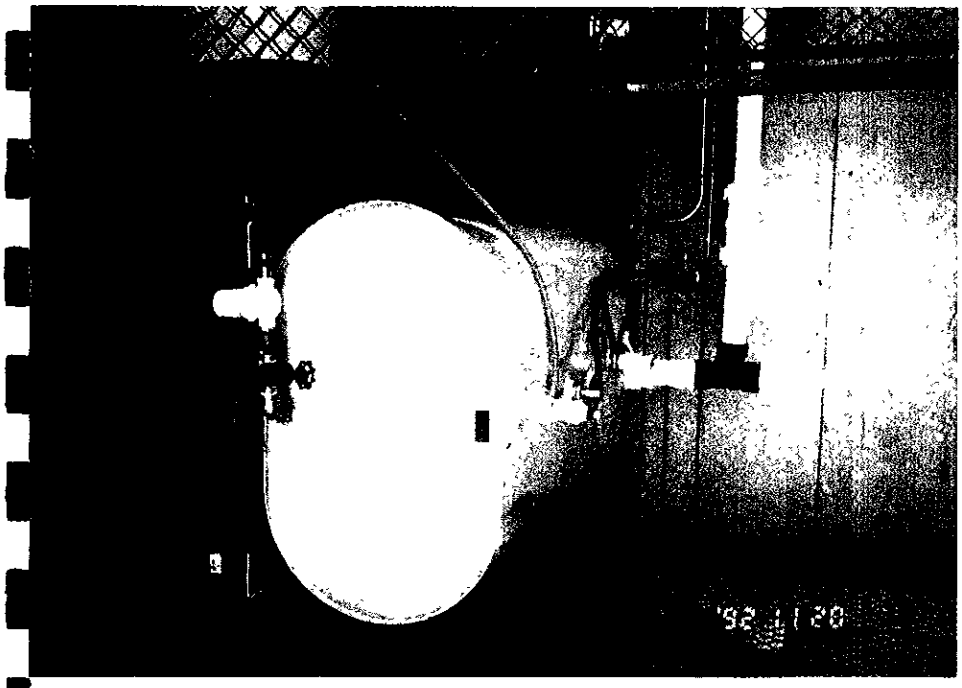
Photo By: CRA



Date: November 20, 1992
Description: View of product/water separator tank in center background.

Photo By: CRA

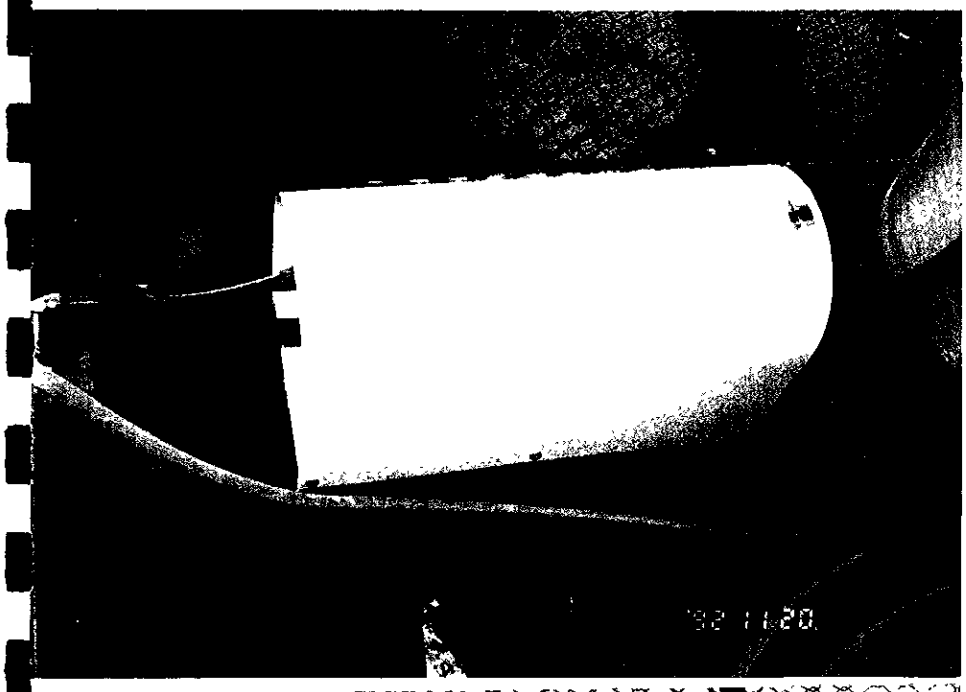
PHOTOGRAPHIC LOG
ENGINEERING–SCIENCE, INC.



PROJECT: Recovery System
LOCATION: Oakland, CA
NUMBER: SY 139.44
CLIENT: Greyhound Lines Inc.

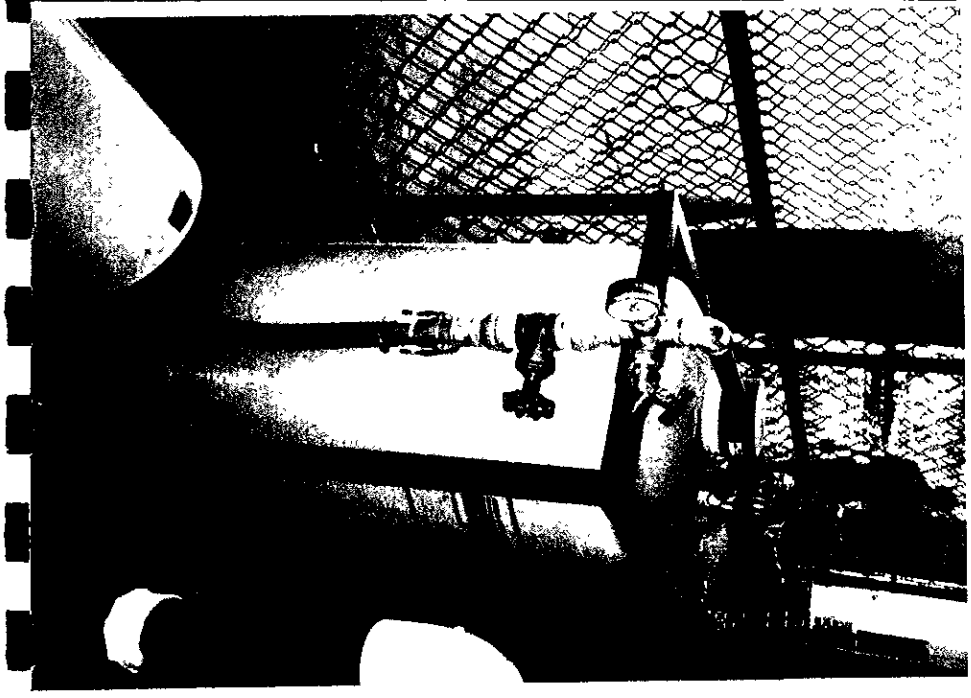
Date: November 20, 1992
Description: View of batch tank which serves as a holding tank which minimizes pump operation.

Photo By: CRA



Date: November 20, 1992
Description: Photo of sump pump with cover assembly.

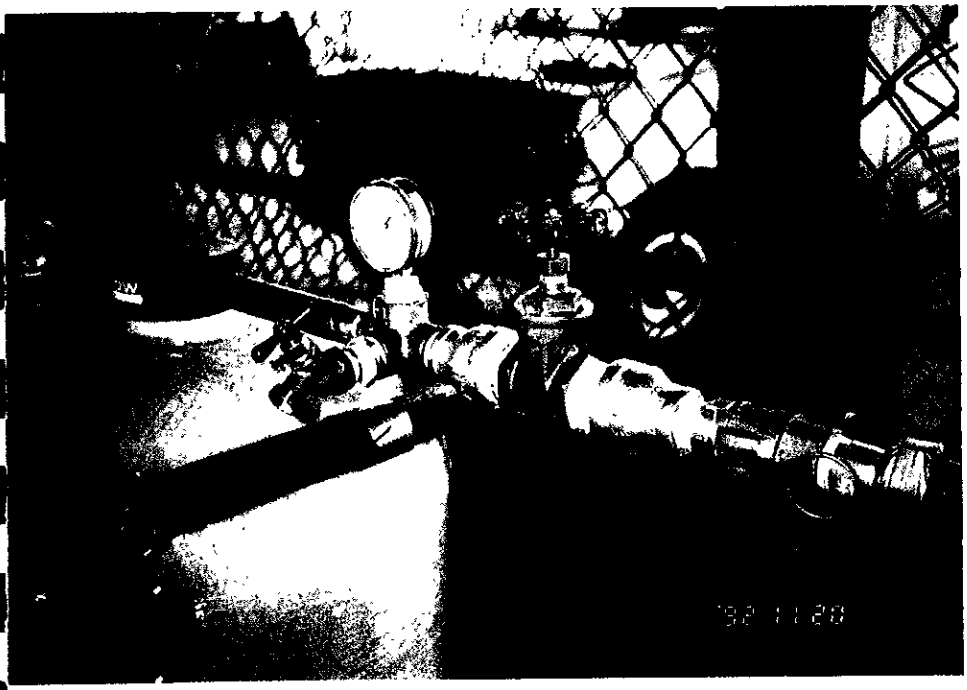
Photo By: CRA



Date: November 20, 1992
Description: Photo of first carbon column. Note gate valve, pressure guage and sample port "C".

Photo By: CRA

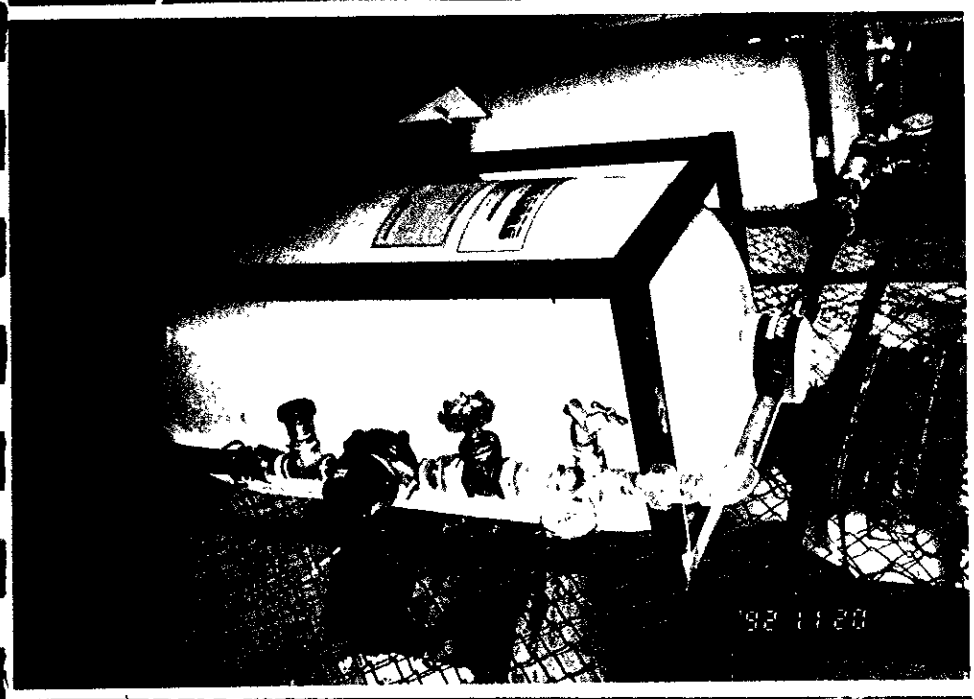
PHOTOGRAPHIC LOG
ENGINEERING–SCIENCE, INC.



PROJECT: Recovery System
LOCATION: Oakland, CA
NUMBER: SY 139.44
CLIENT: Greyhound Lines Inc.

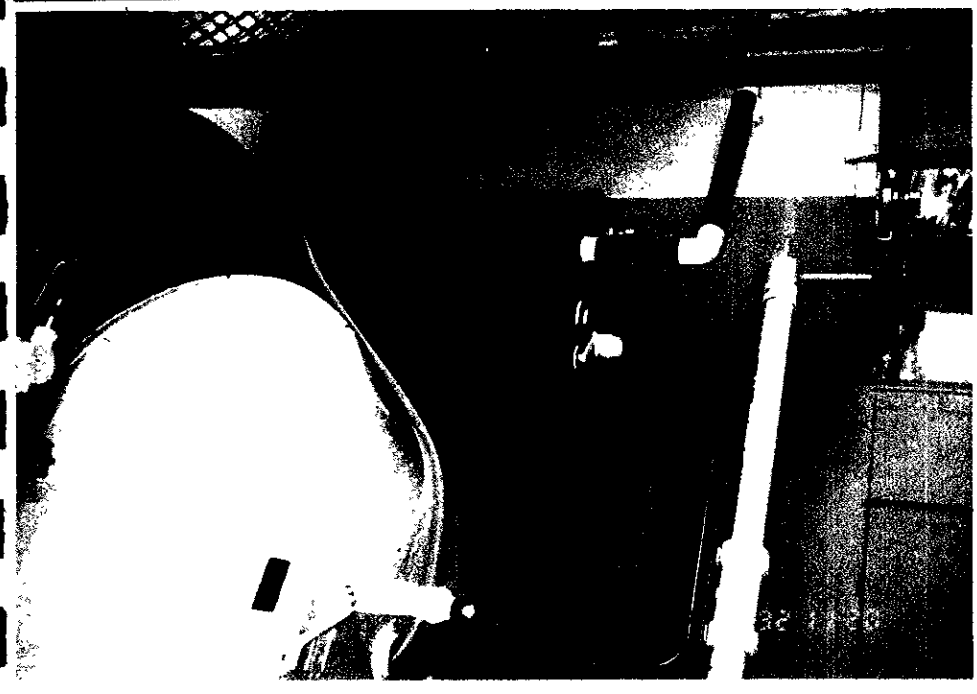
Date: November 20, 1992
Description: Photo of line between the two carbon columns. Note gate valve, pressure guage and sample port "B".

Photo By: CRA



Date: November 20, 1992
Description: Photo of second carbon column. Note (from top to bottom) pressure guage, sample port "A", gate valve, totalizing flowmeter and anti–siphon valve.

Photo By: CRA



Date: November 20, 1992
Description: Photo of product reservoir.

Photo By: CRA

APPENDIX B

SYSTEM PERFORMANCE DATA LOGS

DATA FORM 1

HYDROCARBON RECOVERY/GROUNDWATER TREATMENT SYSTEM WEEKLY MONITORING
GREYHOUND TERMINAL OAKLAND, CA

Date	Recovery Well I.D.	From TOC			Air Pressure to Pumps (PSI)	Pump Off Time (MIN)	Pump On Time (SEC)	Pump Depth Top of PVC to Bottom of Pump
		Depth To Product (ft.)	Depth To Water (ft.)	Product Thickness (ft.)				

LML/SY139.44/0012 wk3

DATA FORM 2

HYDROCARBON RECOVERY/GROUNDWATER TREATMENT SYSTEM WEEKLY MONITORING
GREYHOUND TERMINAL OAKLAND, CA

Date	Product Reservoir			Totalizing Flow Meter Reading (gal.)	GAC Pressure Gauges			Product Transported Off-site	
	Depth To Product (Feet)	Product Layer Thickness (Feet)	Water Layer Thickness (Feet)		Gauge 1 (psi)	Gauge 2 (psi)	Gauge 3 (psi)	Date	Volume (gal.)

LML/SY139.44/0012.wk3

APPENDIX C

EBMUD DISCHARGE PERMIT

EAST BAY
MUNICIPAL UTILITY DISTRICT

WASTEWATER DEPARTMENT

CERTIFIED MAIL
(Return Receipt Requested)
No. P790 282 850

November 5, 1992

Mr. Tom Portele
Greyhound Lines, Inc.
802 Commerce Street
Dallas, TX 75202

Dear Mr. Portele:

Re: Wastewater Discharge Permit (Account No. 502-62221)

Enclosed is the Wastewater Discharge Permit for your facility, effective November 16, 1992 through November 15, 1993. Please read the Permit Terms and Conditions and the attached Standard Provisions and Reporting Requirements. You are responsible for complying with all Permit conditions and requirements.

Greyhound Lines, Inc. shall report to the Source Control Division any changes, either permanent or temporary, to the premise or operation that significantly affect either the volume or quality of wastewater discharged or deviate from the Terms and Conditions under which this Permit is granted.

If you have any questions regarding this matter, please contact Stan Archacki of the Source Control Division at 510-287-0333.

Sincerely,

JOSEPH G. DAMAS
Manager of Source Control

JGD:SAA:llg

sc2a.76_013

Enclosures

cc: Edward W. Roberts
Engineering-Science Inc.
290 Elwood Davis Road
Liverpool, NY 13088

RECEIVED
ES SYRACUSE

P.O. BOX 24055 . OAKLAND . CA 94623-1055 . (510) 465-3700

EBMUD

WASTEWATER DISCHARGE PERMIT APPLICATION

PERMIT NUMBER
502-62221

APPLICANT BUSINESS NAME

Greyhound Lines, Inc.

ADDRESS OF PREMISE DISCHARGING WASTEWATER	BUSINESS MAILING ADDRESS
2103 San Pablo Avenue (STREET ADDRESS)	802 Commerce Street (STREET ADDRESS)
Oakland, CA (CITY)	Dallas, Texas (CITY) 75202 (ZIP CODE)

CHIEF EXECUTIVE OFFICER

Van Hartnitt (NAME)	Director of Environmental Management (TITLE)
802 Commerce Street (STREET ADDRESS)	Dallas, Texas (CITY) 75202 (ZIP CODE)

PERSON TO BE CONTACTED ABOUT THIS APPLICATION	PERSON TO BE CONTACTED IN EVENT OF EMERGENCY
Tom Portele (NAME)	Tom Portele (NAME)
UST Manager (TITLE) (214) 698-4675 (PHONE)	(214) 698-4675 (DAY PHONE) (214) 357-4677 (NIGHT PHONE)

DOCUMENTATION TO BE RETURNED WITH THE PERMIT APPLICATION:

☒	PROCESS DESCRIPTION	☒	DESCRIPTION OF TREATMENT SYSTEM
☒	WATER BALANCE CALCULATIONS	☒	SELF-MONITORING METHOD
N/A	☐ WASTEWATER STRENGTH DATA BASE	☐	SPILL PREVENTION AND CONTAINMENT PLAN N/A
☒	SCHEMATIC FLOW DIAGRAM	☐	A LIST OF ALL ENVIRONMENTAL PERMITS (E.G. Air, Hazardous Waste) None
☒	BUILDING LAYOUT PLAN	☒	OTHER See attached letter (SPECIFY)

N/A: Not Applicable

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 tha 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 accordanc with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on m inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, th information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significa penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Tom Portele
NAME (See certification requirements on reverse)

Tom Portele
SIGNATURE

UST Manager
TITLE

9/8/92
DATE

EBMUD

Greyhound Lines, Inc.
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.

EBMUD USE
Permit Number: 502-62221
Business Classification Code: 4950/4100

BUSINESS ACTIVITY

Bus Passenger Terminal (SIC 4131, 4171)

DESCRIPTION OF PRODUCT

TYPE OF PRODUCT OR BRAND NAME	QUANTITIES	
	Past Calendar Year	Estimated This Year
None		

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
Hydrocarbon Recovery/Groundwater Treatment System	TPH, BTEX

DISCHARGE PERIOD

a. Time of day from 00:00 to 24:00

b. Days of the week 7 days per week

BATCH DISCHARGE(S) None

a. Day(s) of the week _____ b. Time(s) of the day _____

c. Volume discharged _____ d. Rate of discharge _____

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

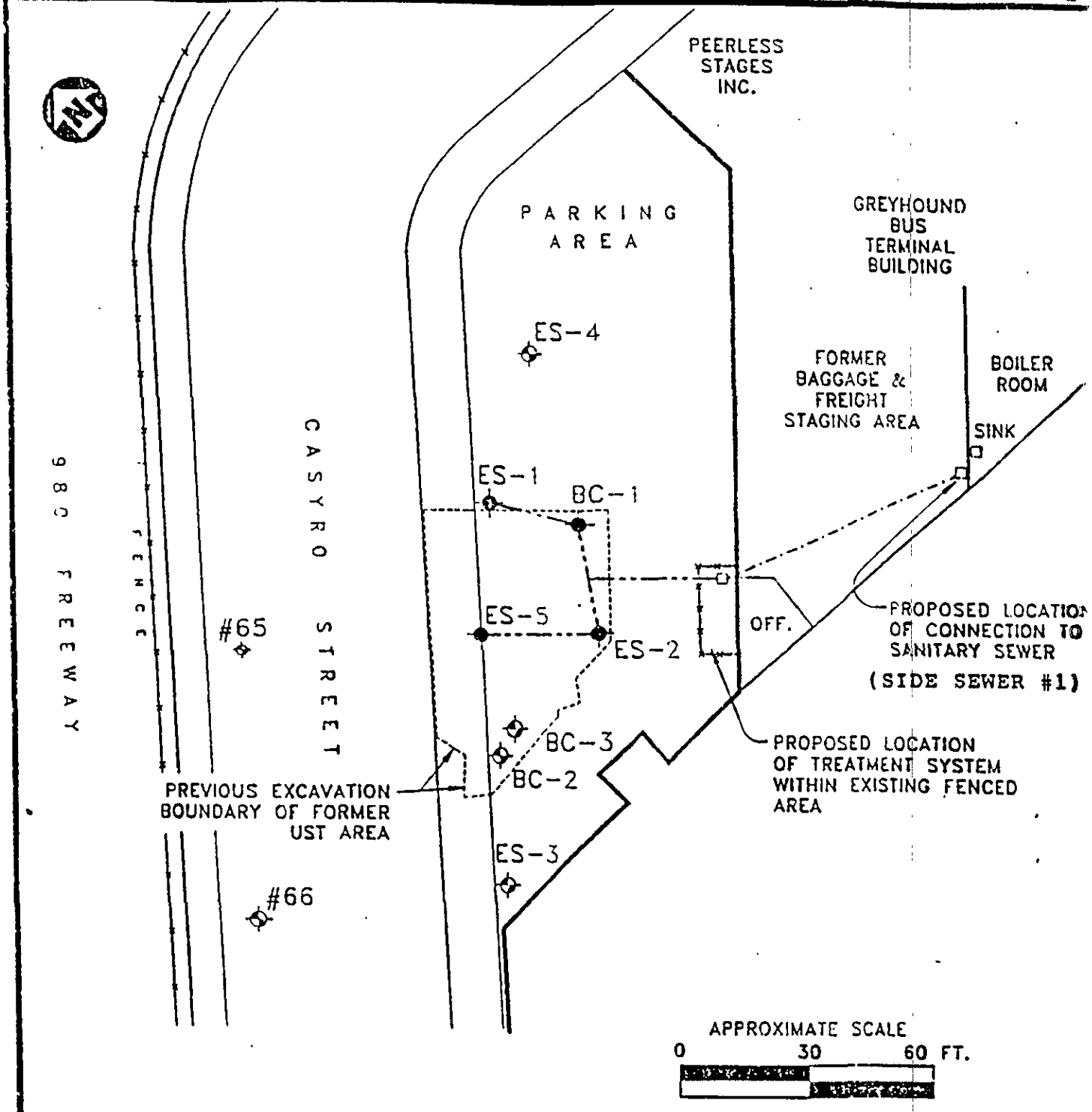
WASTE REMOVED BY (Name, address and State Transporter ID No.)	TYPE OF WASTE (Example: alkaline cleaners, organic solvents, treatment sludge)	WASTE I.D. No.	VOLUME (lbs)(gal)/mo
Not determined	Waste oil from treatment system	-	N/A

SD-31 • 2/86

N/A: Not Available

Account No. 502-62221

FIGURE 1



LEGEND

#66 / BC-3 — EXISTING MONITORING WELL

BC-1 / ES-2 — PROPOSED RECOVERY WELL

PROPOSED RECOVERY SYSTEM TRENCH

TREATMENT SYSTEM DISCHARGE LINE TO SANITARY SEWER

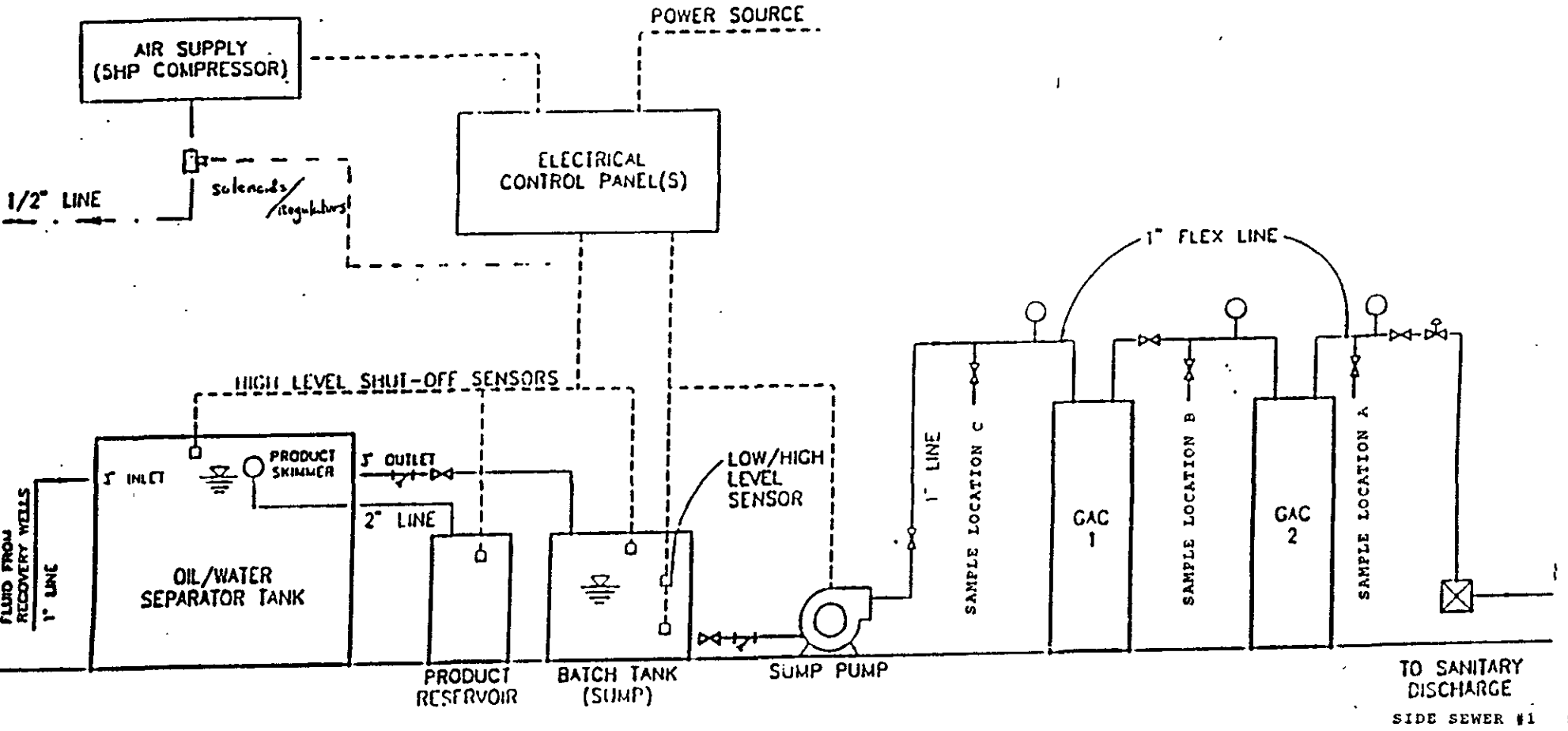
PROPOSED HYDOCARBON RECOVERY AND GROUNDWATER TREATMENT SYSTEM

GREYHOUND LINES, INC.
LOCATION 8934
2103 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

001631|D:\SY139\SY139005.DWG

CREATED: 8/17/92

ES ENGINEERING-SCIEN



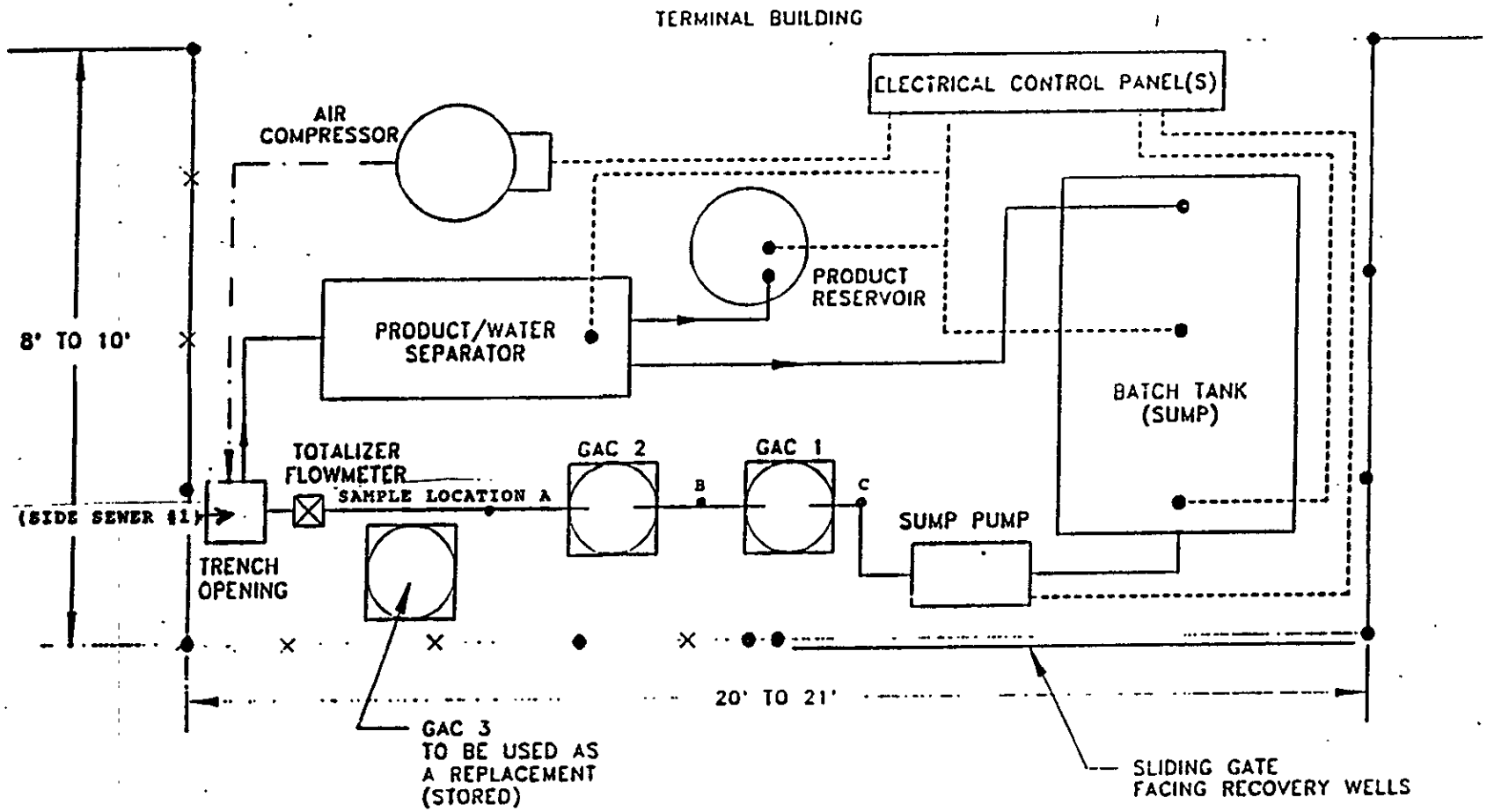
LEGEND:

- BALL OR GATE VALVE
- IN-LINE STRAINER
- VACUUM RELIEF VALVE
- PRESSURE GAUGE
- SAMPLE PORT
- FLUID LINES (SCHEDULE 40 PVC AND FLEX PRODUCT HOSE)
- ELECTRICAL LINES
- AIR LINES (160 TO 200 psi RATING)

HYDROCARBON/GROUNDWATER RECOVERY & TREATMENT SYSTEM

Greyhound Terminal Building
Location 8934
Oakland, California

Account No. 502-6221
FIGURE 2



LEGEND:

- FLUID LINES
- ELECTRICAL LINES
- AIR LINES
- FENCED AREA

3 FT. 0 3 FT.

SCALE

HYDROCARBON/GROUNDWATER RECOVERY & TREATMENT SYSTEM LAYOUT

Greyhound Terminal Building
Location 8934
Oakland, California

ACCOUNT NO. 7022-02777 FIGURE 3

WASTEWATER DISCHARGE PERMIT
Terms and Conditions

Greyhound Lines, Inc, Location 8934
Account No. 502-62221

STANDARD PROVISIONS AND REPORTING REQUIREMENTS CONDITIONS

I. Greyhound Lines, Inc. Location 8934 located at 2103 San Pablo Avenue in Oakland, shall comply with all items of the attached STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 02/92 Revision.

REPORTING REQUIREMENTS

I. Greyhound Lines, Inc. Location 8934 shall notify the EBMUD Source Control one week prior to start up. The District will conduct a site inspection before discharge may be initiated.

II. Greyhound Lines, Inc. Location 8934 shall collect samples per the schedule found in the Self-Monitoring and Reporting Requirements, Section IV, on page 3 of this permit.

III. Greyhound Lines, Inc. Location 8934 shall submit quarterly reports due January 15, 1993 for October 1 through December 31, April 15, 1993 for January 1 through March 31, July 15, 1993 for April 1 through June 30, and October 15, 1993 for July 1 through Septmber 30. Each report shall consist of:

1. A summary of the treatment unit self-monitoring results, any other monitoring, and well sample results that occurred during the reporting period.

2. The estimated date that the primary carbon canister breakthrough will occur, using current loading data.

3. Copies of the Facility Inspection Log. This log must include flow totalizer readings from each sample date, maintenance activities performed, description of operational changes, visual observations of the unit for leaks or fouling and offhaul of hazardous wastes.

Greyhound Lines, Inc. Location 8934
Account No. 502-62221
Page No. 2

WASTEWATER DISCHARGE LIMITATIONS

REGULATED PARAMETER	DAILY MAXIMUM, mg/L	
Arsenic	2	mg/L
Cadmium	1	mg/L
Chlorinated Hydrocarbons (Total Identifiable)	0.5	mg/L
Chromium	2	mg/L
Copper	5	mg/L
Cyanide	5	mg/L
Iron	100	mg/L
Lead	2	mg/L
Mercury	0.05	mg/L
Nickel	5	mg/L
Oil and Grease	100	mg/L
Phenolic compounds	100	mg/L
Silver	1	mg/L
Zinc	5	mg/L
pH (not less than)	5.5	S.U.
Temperature	150	°F
Benzene	0.005	mg/L
Toluene	0.012	mg/L
Ethylbenzene	0.005	mg/L
Xylenes	0.011	mg/L

EBMUD

WASTEWATER DISCHARGE PERMIT

Terms and Conditions

Greyhound Lines, Inc. Location 8934
Account No. 502-62221
Page No. 3

Revisions Effective December 14, 1992

SELF-MONITORING REPORTING REQUIREMENTS

I. Greyhound Lines, Inc. Location 8934 obtain representative samples of the wastewater discharge. The sampling shall be performed according to the frequency and methods outlined below and according to the methods and requirements found in STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 02/92 Revision.

II. Self-monitoring Reports shall contain:

1. The laboratory results;
2. The chain-of-custody.
3. The signatory requirements.

III. Sample location "A", also known as side sever no. 1, shall be the sample tap located on the effluent side of the second carbon vessel. Sample location "B" shall be the sample tap located intermediate of carbon vessels one and two. Sample location "C" shall be the sample tap located on the influent side of the first carbon vessel.

IV. Sample locations "A", "B" and "C" per the following schedule:

1 hour after startup:	1 sample per location [1]
Week 1 - 4:	1 sample/week per location
After week 4:	1 sample/month per location

[1] Laboratory results to be available within 24 hours of sample collection and faxed to 510-287-1351.

V. Parameters to be monitored and sample types:

EPA 624 - grab sample
Metals - grab sample (Sample Location "A", on day one only)

VI. All samples must be obtained using containers, collection methods, preservation techniques, holding times and analytical methods set forth in 40 CFR Part 136, except for the 8000 series methods, which are found in U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Test Methods for Evaluating Solid Waste, SW-846.