

92 AUG 21 PM 12:30
9-031

August 20, 1992

Mr. Ardy Assadi-Rad
Source Control Division - East Bay Municipal Utility District
Mail Slot #702 - P.O. Box 24055
Oakland, CA 94623-1055

Subject: Ground Water Discharge Permit
BP Oil Station # 11266
1541 Park Street - Alameda

Dear Mr. Assadi-Rad:

Hydro-Environmental Technologies, Inc. (HETI) submitted a permit application and fee for discharge of treated effluent from this site, on July 20, 1992. I called Stan Archacki on August 10, 1992 to advise him of the following revised schedule:

Equipment Installation Complete	--	August 21, 1992
System Startup & Effluent Discharge	--	August 26, 1992

I also received your letter dated August 6, 1992 and have included the following enclosures with this letter to provide you with the information you requested.

- 1) Figure 2 **Remediation Schematic**
- revised to show location of flow meter and sample taps
- 2) Figure 3 **Treatment System Layout**
- revised to show position of flow meter and sample taps

The site has been a retail fuel station for over 12 years, operated by both the Mobil Oil Corporation and BP Oil Company. The station was acquired by BP Oil Company in 1989. No land use prior to this period has been researched. No additional environmental permits are required to operate the treatment equipment, however, approval of the remediation plan for this site was obtained from the Alameda County Department of Environmental Health (ACDEH) in April 1992. HETI estimates that the remediation may require between 6 months to 3 years to complete

Following the replacement of underground fuel tanks in 1987, soil samples were collected from the excavation walls and the samples were analyzed for total petroleum hydrocarbons. Soil sample results indicated total petroleum hydrocarbons were present. Subsequently in 1988 and 1989, monitoring wells were installed at the site to define the extent of soil and ground water contamination. A map showing the distribution of dissolved hydrocarbons in shallow ground water is attached as Figure 4.

Please note that this remediation system is not designed to remove or treat "free phase hydrocarbons"(FPH). There has been no history of occurrence of FPH in any of the wells at this site, therefore there is no need to provide a "fail safe" device to detect FPH. Regular monitoring of the recovery well, RW-1 and the treatment system will be conducted by HETI. The occurrence of FPH would thus be identified during site monitoring visits.

As discussed in our submittal dated July 20, 1992, HETI will monitor system performance by sampling effluent (from the GAC drum) to determine removal efficiency. After several weeks of operation, samples of the effluent (biotreated only) from the bioreactor tank (Figure 2) will be collected and analyzed to evaluate the need for further use of the GAC drum. If removal efficiency is adequate to maintain compliance through the bioreactor, then the carbon drum will be bypassed.

Following the first month of operation HETI will prepare an initial monthly "Self-Monitoring/Operational Report", or startup report. After two months of operation a second "Self-Monitoring/Operational Report" (SMOR) will be prepared. Subsequent SMOR's will be prepared every three months (quarterly) to correspond with quarterly well monitoring conducted at the site. A "System Startup Plan" (SSP) which includes sampling procedures and quality control is also enclosed. Hopefully your questions regarding self-monitoring will be resolved after reviewing the SSP.

The ground water beneath the site is not suspected of containing chlorinated hydrocarbons or heavy metals, due to the nature of the contamination. To date ground water has not been analyzed for heavy metals or chlorinated hydrocarbons (EPA 624), however, as indicated in Table 1, on the first day of sampling both the influent and effluent samples will be analyzed by EPA Method 624 and heavy metals (Cr, Zn, Pb, Cd). The results of these additional analyses will be submitted in the start-up plan described below.

**HYDRO
ENVIRONMENTAL
TECHNOLOGIES, INC.**

Please expedite your processing of the permit application for this site, in accordance with the schedule above. We realize your constraints and wish to assist you as much as possible.

Sincerely,
HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.



Frederick G. Moss, P.E. No. 35162
Senior Engineer



Frances Maroni
Project Engineer

cc: Brian Oliva, ACDEH
Peter J. DeSantis, BP Oil Company

Enclosures

BP Oil # 11266

9-031/Park Street - Alameda System Startup Plan August 26, 1992

Background:

A ground water extraction and treatment system has been installed at the site. HMS Company was contracted to install the treatment system at the site.

An automatic, pneumatic water pump has been installed in the existing recovery well, RW-1. An air compressor powers the pump for ground water extraction. The well head contains a four-inch diameter PVC conduit which houses both the water and air lines.

The treatment equipment consists of a bioreactor tank and a 200 lb. granular activated carbon (GAC) drum. Treated ground water is discharged to the sanitary sewer (EBMUD). A two-inch vapor line has also been installed but is capped for potential future use. The treatment system is connected to the service station's electrical panel located inside the station.

Water is pumped to the surface and sent to a specially designed tank to stimulate biodegradation of dissolved petroleum hydrocarbons. The equipment was installed to remove dissolved volatile hydrocarbons prior to sewer discharge. Copies of the treatment system layout (Figure 3) and remediation schematic (Figure 5) are attached.

Monitoring Plan:

The treatment system has a scheduled start up date of August 26, 1992. Influent and effluent water samples will be collected on the first day, third day and fifth day of system operation, weekly for two months, monthly for six months and quarterly thereafter. A

monitoring and sampling schedule is included as Table 1. HETI will initiate system start-up as follows:

Step - One

The system will be pumped through the Bioreactor Tank at a flow rate of approximately 1.5 gpm, and through the GAC drum. Water effluent from the drum will be sampled but not discharged.

This step will last for approximately 4 hours or until the tank and drum are full. Water samples will be collected from the drum at the drum outlet piping. A chain-of-custody will be filled out and the water samples collected will be sent to Pace Inc. for analysis. The system will be shut off until the sample analysis results are completed (1 week).

Step - Two

The treatment system will be in full operational mode. This includes pumping, biotreating, carbon adsorption and sewer discharge.

Following review of the step-one laboratory results, HETI will initiate pumping and complete treatment of ground water. During the first week of operation, water samples will be collected by HETI personnel. The exact frequency of monitoring and sampling will be determined following approval of the discharge permit by EBMUD. It is essential to maintain a complete operational log during this period. A checklist is to be completed during each site visit documenting system conditions.

Step - Three

Treatment of ground water through the Bioreactor Tank bypassing the GAC drum.

Following several weeks of operation, evaluation of the laboratory results and system operation observations will be done to determine the need for further use of the drum. At this time, analytical results of several water samples, collected between the bioreactor tank and GAC drum, will be known. If these sample results indicate a trend or show that the water flowing out of the bioreactor is below discharge limitations, then the GAC drum will be bypassed. ***** **NOTE:** This step will only be initiated following approval by EBMUD.

Schedule & Personnel:

Two field staff will be needed on-site August 24 - 26th to collect water samples and monitor system performance. Step - two of the system startup plan of field activities will be the responsibility of Frances Maroni. Site evaluation and engineering will be the responsibility of Brian Gwinn.

TABLE 1

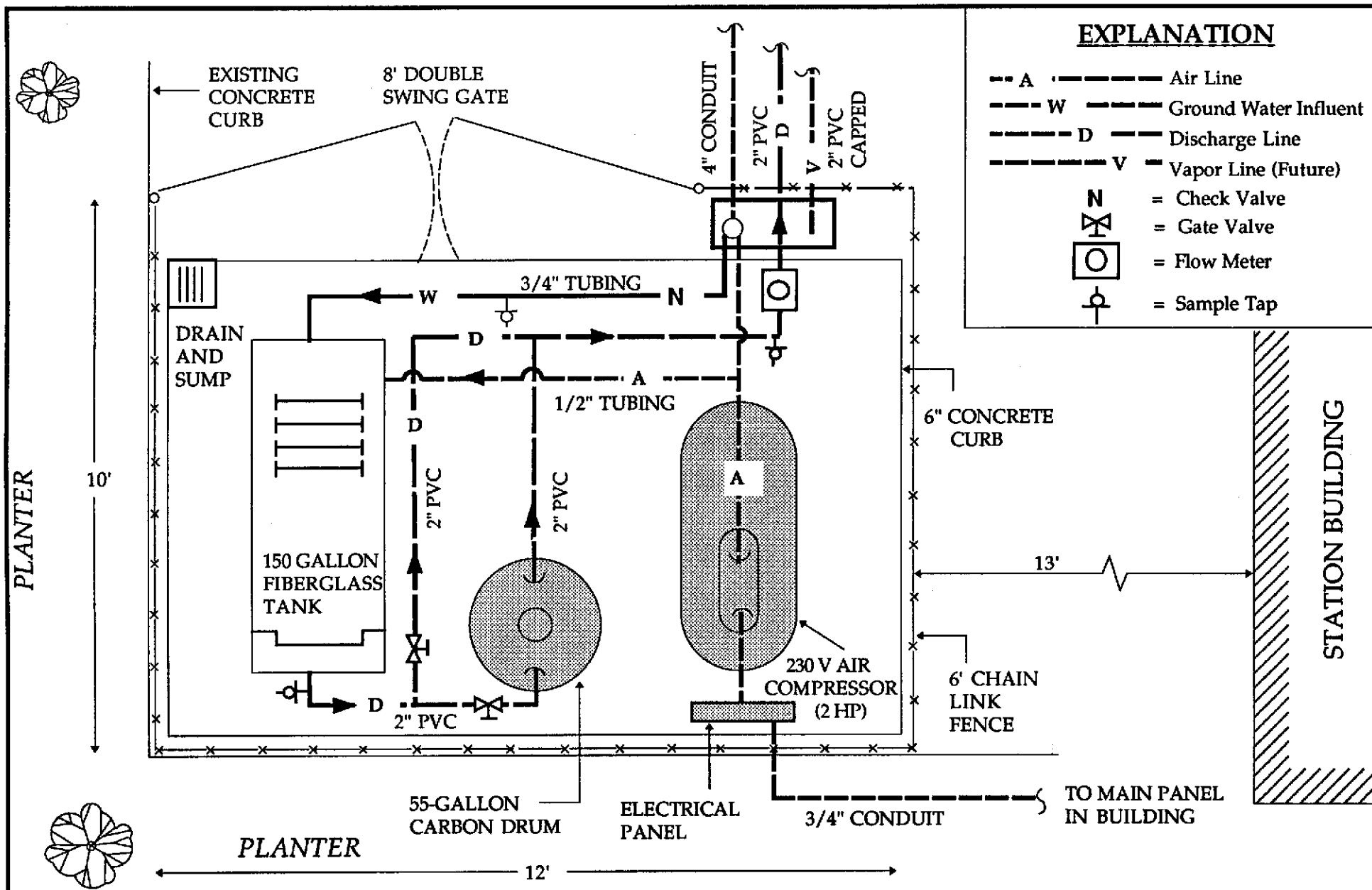
MONITORING & SAMPLING SCHEDULE

BP Service Station No. 11266
1541 Park Street, Alameda, CA
HETI Job No. 9-031

Monitoring Schedule	Ground Water Influent	Biotreated * Ground Water (Midfluent)	Final Effluent (Sewer)	TPHg & BTEX	Lead
First Day**	X		X	X	X
Third Day	X		X	X	
Fifth Day	X		X	X	X
Second Week	X	X	X	X	
Third Week			X	X	
Fourth Week	X	X	X	X	X
Fifth Week			X	X	
Six Week	X	X	X	X	
Seventh Week			X	X	
Third Month	X	X	X	X	X
Fourth Month			X	X	
Fifth Month			X	X	
Sixth Month	X	X	X	X	
Ninth Month	X	X	X	X	X
One Year	X	X	X	X	

* Analysis may be deleted if results indicate stabilized biotreatment has been achieved.

** EPA Method 624 and metal analyses (Cr, Zn, Cd, Ni) will be conducted.



HYDR
ENVIRONMENTAL
TECHNOLOGIES, INC.

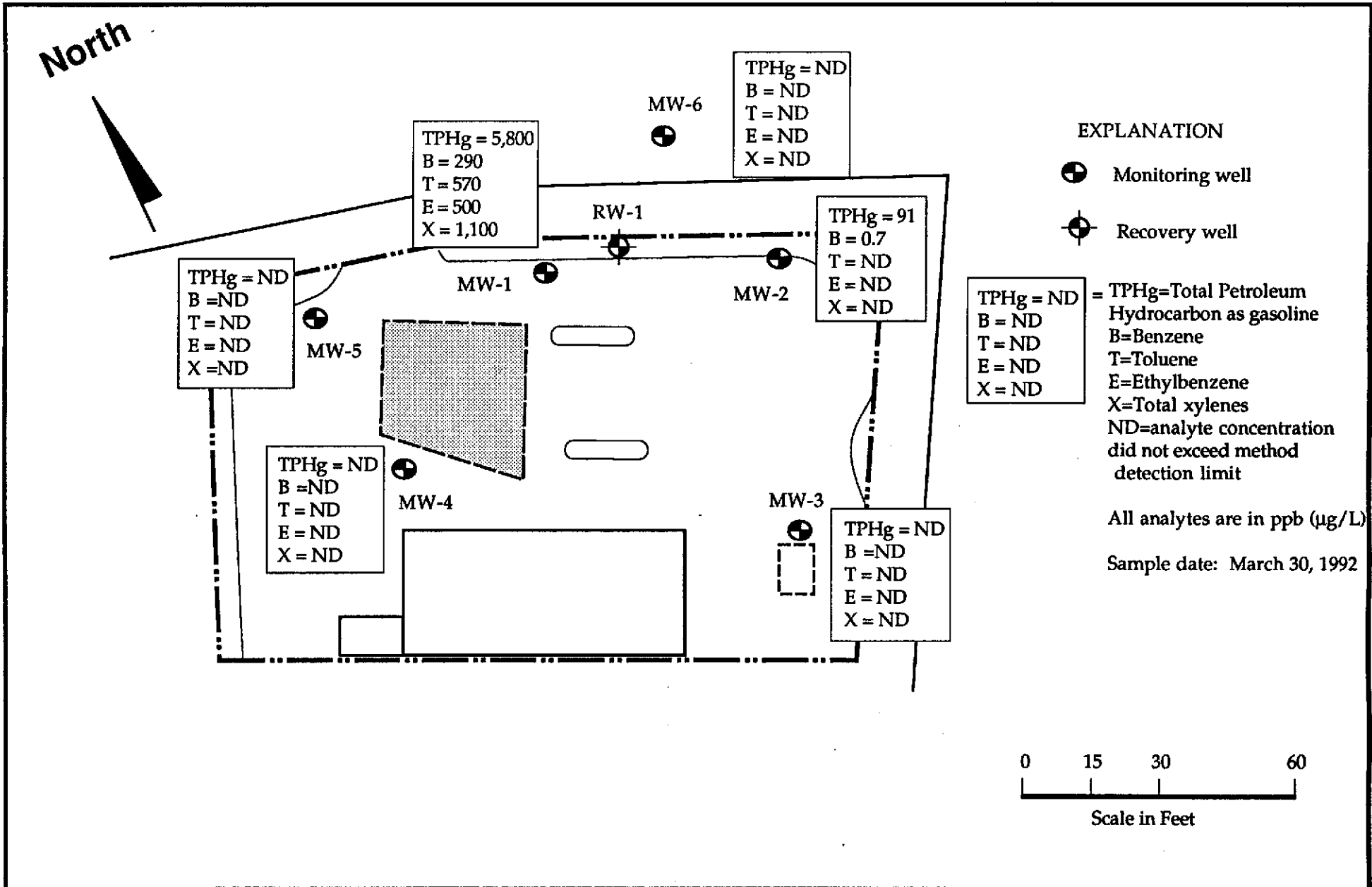
TREATMENT SYSTEM LAYOUT

BP SERVICE STATION No. 11266
1541 Park Street, Alameda, California

Figure

3

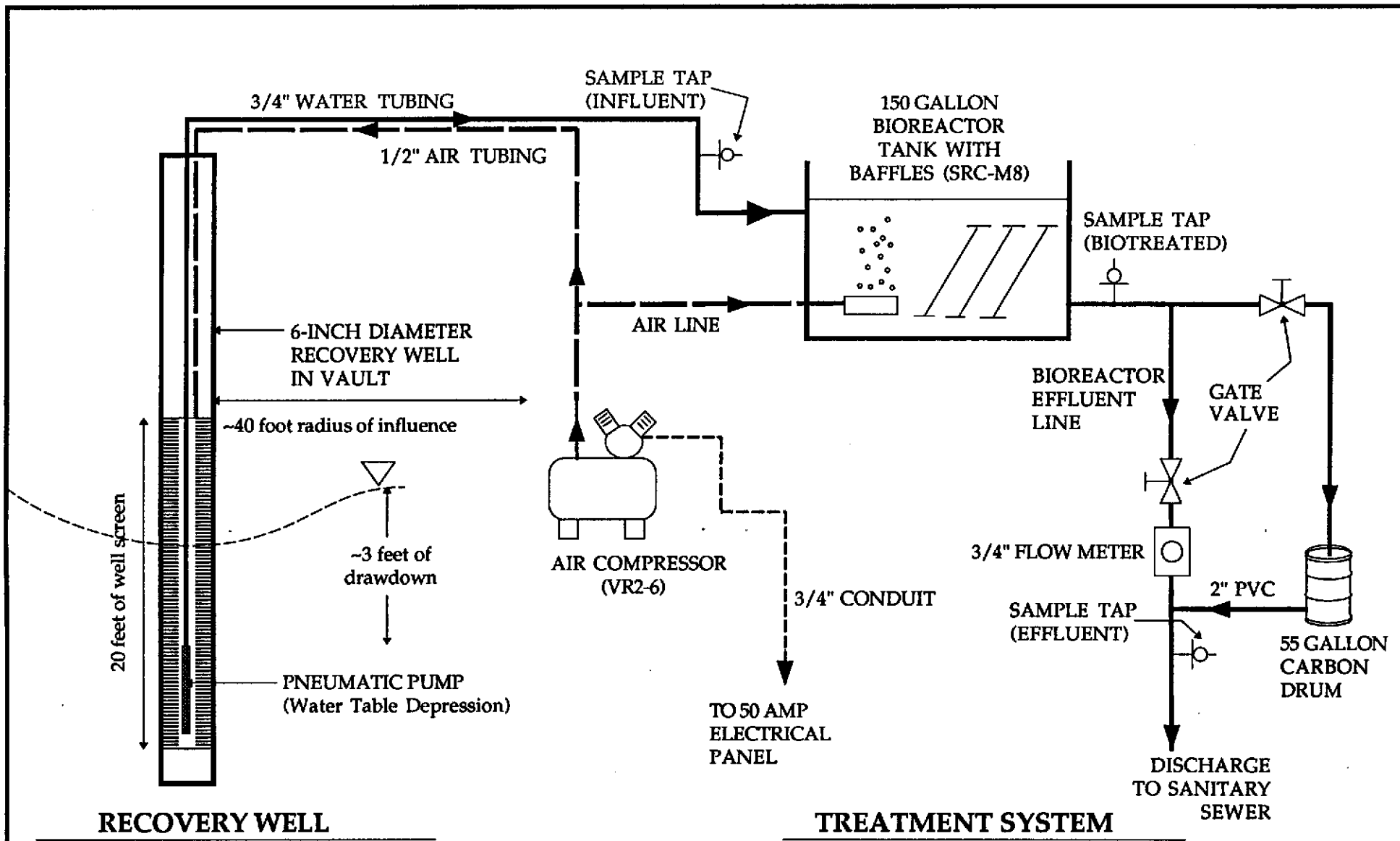
9-031 | 8/13/92



HYDR-
ENVIRONMENTAL
TECHNOLOGIES, INC.

TPHg/BTEX CONCENTRATION MAP
 BP SERVICE STATION No. 11266
 1541 Park Street, Alameda, California

Figure
4
 9-031 | 3/30/92



FLOW RATE: 1-2 GALLONS/MINUTE

HYDR
ENVIRONMENTAL
TECHNOLOGIES, INC.

REMEDICATION SCHEMATIC

BP SERVICE STATION No. 11266
 1541 Park Street, Alameda, California

Figure
5
 9-031 | 8/13/92

9-031/FM/FIG.2/8-92

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

7-9-92

PRODUCER

RICHTER ROBB PACIFIC INSURANCE SERVICE
500 SANSOME ST. #505
SAN FRANCISCO, CA. 94111

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

PACIFIC TOWING & TRUCKING INSURANCE

COMPANY LETTER **A** ATLAS INDEMNITY AND INSURANCE CO., LTD.

INSURED

HAZEROUS MATERIALS, INC. AND
H.J. POWERS, INC.
P.O. BOX 705
COALINGA, CA. 92310

- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**



COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	GENERAL LIABILITY				GENERAL AGGREGATE \$
	COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OP AGG. \$
	CLAIMS MADE OCCUR.				PERSONAL & ADV. INJURY \$
	OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE \$
					FIRE DAMAGE (Any one fire) \$
					MED. EXPENSE (Any one person) \$
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT \$ 1,200,000
	ANY AUTO				BODILY INJURY (Per person) \$
	ALL OWNED AUTOS				BODILY INJURY (Per accident) \$
A	X SCHEDULED AUTOS	APT-04-000546	11-6-91	11-6-92	PROPERTY DAMAGE \$
	X HIRED AUTOS				
	X NON-OWNED AUTOS				
	GARAGE LIABILITY				
	X \$500,000	MEDICAL \$5,000			
	EXCESS LIABILITY				EACH OCCURRENCE \$
	UMBRELLA FORM				AGGREGATE \$
	OTHER THAN UMBRELLA FORM				
	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY LIMITS
					EACH ACCIDENT \$
					DISEASE-POLICY LIMIT \$
					DISEASE-EACH EMPLOYEE \$
	OTHER				
A	PHYSICALK DAMAGE (F.T.CAC./COLL.)	APT-04-000546	11-6-91	11-6-92	\$1,000 DED. F.T.CAC. \$1,000 DED. COLLISION

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER

BP OIL COMPANY
NORTHWEST DIVISION
SOUTHCENTER PLACE BUILDING
16400 SOUTHCENTER PARKWAY SUITE 301
TUKWILA, WA 98188

ATTN: PAULIN REITH

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

J. A. Bomka

CERTIFICATE OF INSURANCE:

CAR 18 07/01/92

<p>PRODUCER Brooks & Willmes Ins. Brokers 5570 Sanchez Dr., Suite 200 San Jose, CA 95123- PHONE 408-448-5300</p>	<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.</p>
<p>INSURED Hazardous Material Servs Inc K.V. Powers, Inc. P.O. Box 768 Coalinga CA 93210</p>	<p>COMPANIES AFFORDING COVERAGE</p> <p>COMPANY LETTER A Alpine Assurance Company, Ltd.</p> <p>COMPANY LETTER B</p> <p>COMPANY LETTER C</p> <p>COMPANY LETTER D</p> <p>COMPANY LETTER E</p>

COVERAGES -----
 THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CD LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFF DATE	POLICY EXP DATE	LIMITS
	GENERAL LIABILITY				GENERAL AGGREGATE 1,000,000
A	<input checked="" type="checkbox"/> COMMERCIAL GEN LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCC. <input type="checkbox"/> OWNERS'S & CONTRACTOR'S PROTECTIVE <input checked="" type="checkbox"/> Felonious/Sudden <input type="checkbox"/> & Accidental	AR-92-3000-0041	03/03/92	03/03/93	PROD-COMP/OP AGG. 1,000,000 PERS. & ADV. INJURY 1,000,000 EACH OCCURRENCE 1,000,000 FIRE DAMAGE (ANY ONE FIRE) = MED. EXPENSE (ANY ONE PERSON) =
	AUTOMOBILE LIAB				COND. SINGLE LIMIT BODILY INJURY (PER PERSON) BODILY INJURY (PER ACCIDENT) PROPERTY DAMAGE
A	<input checked="" type="checkbox"/> EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM	AR-92-3000-0025	03/03/92	03/03/93	EACH OCCURRENCE 1,000,000 AGGREGATE 1,000,000 STATUTORY LIMITS EACH ACCIDENT DISEASE-POL. LIMIT DISEASE-EACH EMP.
	WORKERS' COMP AND EMPLOYERS' LIAB				
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
 Coverage written through Alan Galloway, Werlhof Aviation, 4289 Freepport Blvd, Sacramento, CA 95833, A California Surplus Lines Broker.

Certificate issued as evidency of insurance for work performed by insured.

CERTIFICATE HOLDER ----- **CANCELLATION** -----

- SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.
- AUTHORIZED REPRESENTATIVE

BP Oil Company, Pauline Reith,
 NW Div, Southcenter Place Bldg
 16490 Southcenter Parkway 9801
 Tukwila WA
 98188

Alan Galloway

CERTIFICATE OF INSURANCE:

002 IS 07/01/92

<p>ISSUER Robis Internacional Insurance Brokerage, Inc. 220 Montgomery 2430 San Francisco, CA 94104</p>	<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.</p>
<p>INSURED Hazardous Material Serv Inc P.O. Box 104 Colma, CA 94015</p>	<p>COMPANIES AFFORDING COVERAGE</p> <p>COMPANY LETTER A Freedom Ins Co Ltd COMPANY LETTER B COMPANY LETTER C COMPANY LETTER D COMPANY LETTER E</p>

COVERAGES
 THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

ED LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFF DATE	POLICY EXP DATE	LIMITS
	GENERAL LIABILITY				GENERAL AGGREGATE 1,000,000
[]	COMMERCIAL GEN LIABILITY	F0200912	07/11/92	07/11/92	PER-COMP/OP AGG. =
[]	CLAIMS MADE [] SOG.				PERM. & ADV. INJURY =
[]	OWNERS & CONTRACTOR'S PROTECTIVE				EACH OCCURRENCE 1,000,000
[X]	Professional Liability				FIRE DAMAGE (ANY ONE FIRE) MED. EXPENSE (ANY ONE PERSON) GEN. SINGLE LIMIT BODILY INJURY (PER PERSON) BODILY INJURY (PER ACCIDENT) PROPERTY DAMAGE EACH OCCURRENCE AGGREGATE (STATUTORY LIMITS) EACH ACCIDENT DISEASE-POL. LIMIT DISEASE-EACH EXP.
	AUTOMOBILE LIAB				
[]	ANY AUTO				
[]	ALL CLASD AUTO				
[]	COMMERCIAL AUTO				
[]	HIRED AUTO				
[]	NON-CLASD AUTO				
[]	BARAGE LIABILITY				
	HEALTH LIABILITY				
[]	UMBRELLA FORM				
[]	OTHER THAN UMBRELLA FORM				
	WORKERS COMP AND EMPLOYERS LIAB				
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER
 BP Oil Company, Pauline Keith
 1400 Southcenter Place 3114
 Tukwila WA 98162

CANCELLATION
 • SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.
 • AUTHORIZED REPRESENTATIVE

Pauline Keith

BROOKS & WILLIAMS INSURANCE BROKERS, INC.
5570 SANCHEZ DRIVE
SAN JOSE, CA. 95123
(408)448-5300
(408)448-5116 FAX

F A X T R A N S M I T T A L

DATE: July 13, 1992
TO: Pauline Reith/BP Oil Co
#206-394-5280
FROM: Linda Satter
RE: Hazardous Material Services

Faxed herewith are Certificates of Insurance as requested.

Sincerely,
Linda

Total number of pages including this page - 4

cc: file

cc: Della Jordan/Sacramento

CALIFORNIA PRELIMINARY 20-DA NOTICE

(PUBLIC AND PRIVATE WORK)
IN ACCORDANCE WITH SECTION 3097 AND 3098, CALIFORNIA CIVIL CODE

YOU ARE HEREBY NOTIFIED THAT...

CONSTRUCTION LENDER or
Reputed Construction Lender, if any

HAZARDOUS MATERIAL SERVICES

(name and address of person or firm—sender)

P. O. BOX 705

COALINGA, CA 93210

has furnished or will furnish labor, services, equipment or materials of the following general description:

INSTALL GROUNDWATER REMEDIATION

(general description of the labor, services, equipment or materials furnished or to be furnished)

SYSTEM

for the building, structure or other work of improvement located at:

1541 PARK STREET

(address or description of job site sufficient for identification)

ALAMEDA, CA

The name of the person or firm who contracted for the purchase of such labor, services, equipment or materials:

B. P. OIL COMPANY

NOTICE TO PROPERTY OWNER

If bills are not paid in full for the labor, services, equipment, or materials furnished or to be furnished, a mechanic's lien leading to the loss, through court foreclosure proceedings, of all or part of your property being so improved may be placed against the property even though you have paid your contractor in full. You may wish to protect yourself against this consequence by (1) requiring your contractor to furnish a signed release by the person or firm giving you this notice before making payment to your contractor or (2) any other method or device which is appropriate under the circumstances.

The person or firm giving this notice is required, pursuant to a collective bargaining agreement, to pay supplemental fringe benefits into an express trust fund (described in Civil Code §3111), said fund is identified as follows: (strike if inapplicable)

(name)

(address)

_____ FOLD HERE _____

Owner or PUBLIC AGENCY
or Reputed Owner (on public work)
(on private work)

B. P. OIL COMPANY
SOUTHCENTER PLACE BUILDING
16400 SOUTHCENTER PARKWAY SUITE 301
TUKWILA, WA 98188

_____ FOLD HERE _____

person having no direct contractual relationship with the contractor, other than a person who performed actual labor for wages or an express trust fund described in Section 3111, may file such a notice, but no payment shall be withheld from any such contractor, pursuant to any such notice, unless such public agency concerned, not later than 20 days after the claimant has first furnished labor, services, equipment, or materials to the jobsite, stating with substantial accuracy a general description of labor, service, equipment, or materials furnished, and the name of the party to whom the same was furnished. Such notice shall be served by mailing the same by first-class mail, registered mail, postage prepaid, in an envelope addressed to the contractor at any place he maintains an office or Department of General Services of the state, such notice shall be served by mailing in the same manner as above, addressed to the office of the disbursing officer of the department constructing the work, or by personal service upon such officer. When service is by registered or certified mail, service is complete at the time of the deposit of the registered or certified mail.

(h) Disciplinary action against contractors and subcontractors. Where the contract price to be paid to any subcontractor on a particular work of improvement exceeds four hundred dollars (\$400), the failure of that contractor, licensed under Chapter 9 (commencing with Section 7000) of the Business and Professions Code, to give the notice provided for in this section, constitutes grounds for disciplinary action by the Registrar of Contractors.

(i) The notice requirements of this section shall not apply to an express trust fund described in Section 3111.

(3) When service is made by first-class certified or registered mail, service is complete at the time of the deposit of such registered or certified mail.

(g) Single notice; additional material, service, labor or equipment. A person required by this section to give notice to the owner and to an original contractor, and to a person to whom a notice to withhold may be given, need give only one such notice to owner, and to the original contractor and to the person to whom a notice to withhold may be given with respect to all materials, services, labor, or equipment furnished for a work of improvement, which means the entire structure or scheme of improvements as a whole, unless the same is furnished under contracts with more than one subcontractor, in which event, the notice requirements must be met with respect to materials, services, labor, or equipment furnished to each such contractor.

If a notice contains a general description required by subdivision (a) or (b) of the materials, services, labor, or equipment furnished to the date of notice, it is not defective because, after such date, the person giving notice furnishes materials, services, labor, or equipment not within the scope of such general description.

(h) Disciplinary action against contractors and subcontractors. Where the contract price to be paid to any subcontractor on a particular work of improvement exceeds four hundred dollars (\$400), the failure of that contractor, licensed under Chapter 9 (commencing with Section 7000) of the Business and Professions Code, to give the notice provided for in this section, constitutes grounds for disciplinary action by the Registrar of Contractors.

YOUR ATTENTION IS DIRECTED TO SECTIONS 3097, 3098 AND 3111, CALIFORNIA CIVIL CODE WHICH REQUIRES US TO NOTIFY YOU THAT IF BILLS ARE NOT PAID IN FULL FOR LABOR, SERVICES, EQUIPMENT OR MATERIALS, THE IMPROVED PROPERTY (WHICH IS DESCRIBED HEREON) MAY BE SUBJECT TO A MECHANIC'S LIEN. (THIS STATEMENT IS APPLICABLE TO PRIVATE WORK ONLY.)

1980

#11265

THIS IS NOT A LIEN. THIS IS NOT A REFLECTION ON THE INTEGRITY OF ANY CONTRACTOR OR SUBCONTRACTOR.

Instructions: A. Fill out form completely and legibly. Use typewriter if possible. B. Assessor's parcel number may be obtained from the County Assessor. C. Top, original signature copy may be filed with the County Recorder's Office pursuant to California Civil Code Section 3097(D).

DATE 08/21/92 ASSESSOR'S PARCEL NO.

YOU ARE HEREBY NOTIFIED:

THAT THE UNDERSIGNED HAS FURNISHED OR WILL FURNISH LABOR, SERVICES, EQUIPMENT OR MATERIAL OF THE FOLLOWING DESCRIPTION

NORTH WESTERN ELECTRIC COMPANY
219 DILLON AVENUE
CAMPBELL, CA 95008
BY: [Signature] OWNER 08/21/92

CONTRACT AS QUOTED. WIRE FOR RECOVERY EQUIPMENT. PERMIT BY OTHERS. B.P. #11266 @ 1541 PARK/LINCOLN ALAMEDA, CA 94501

THE NAME AND ADDRESS OF THE PERSON WHO CONTRACTED FOR THE PURCHASE OF SUCH LABOR, SERVICE, EQUIPMENT OR MATERIAL

IS: MIKE POWERS, dba HAZARDOUS MATERIAL SERVICES
1410 ELM ST., P.O. BOX 705, COALINGA, CA 93210, (209) 9352006.

NOTICE TO PROPERTY OWNER
If bills are not paid in full for the labor, services, equipment, or materials furnished or to be furnished, a mechanic's lien leading to the loss, through court foreclosure proceedings, of all or part of your property being so improved may be placed against the property even though you have paid your contractor in full.

TO: B.P. CORPORATION
16400 SOUTH CENTER PARKWAY SUITE 301
TUKWILA, WA 98188

TRUST FUNDS TO WHICH SUPPLEMENTAL FRINGE BENEFITS ARE PAYABLE
NAME
ADDRESS
NAME
ADDRESS
NAME
ADDRESS
(MATERIAL MEN NOT REQUIRED TO FURNISH THE ABOVE)

TO: HAZARDOUS MATERIAL SERVICES
1410 E. ELM STREET
P.O. BOX 705
COALINGA, CA 93210

TENANT
TO: CONSTRUCTION LENDER OR REPUTED CONSTRUCTION LENDER
PARK HO YOUNG
B.P. #11266 @ 1541 PARK
ALAMEDA, CA 94501

NOTICE TO CONSTRUCTION LENDER ONLY
ESTIMATED TOTAL PRICE OF THE LABOR, SERVICES, EQUIPMENT OR MATERIALS DESCRIBED HEREON.
\$ [Redacted]

PROOF OF SERVICE AFFIDAVIT (SECTION 3097.1, CALIFORNIA CIVIL CODE)

I, _____, declare that I served copies of the above PRELIMINARY NOTICE (check appropriate box).

(a) [] By personally delivering copies to _____ at _____ on _____, 19____, at _____ m.

(b) [] By First Class Certified or Registered Mail service, postage prepaid, addressed to each of the parties at the address shown above on 8/21, 1992.

I declare under penalty of perjury that the foregoing is true and correct. Signed at _____, California, on _____, 19____.

[ATTACH RECEIPTS OF CERTIFIED OR REGISTERED MAIL WHEN RETURNED]

SIGNATURE OF PERSON MAKING SERVICE



WASTEWATER DISCHARGE PERMIT

Terms and Conditions

BP OIL COMPANY # 11266
Account No. 502-58171
Page No. 5

FEES AND WASTEWATER CHARGES

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

Permit Fee	(Paid on July 21, 1992)	\$2,260.00
Monthly Monitoring Charges		\$247.83
Monthly Wastewater Disposal Charge		\$9.60
Monthly Wastewater Capacity Fee		\$1,421.03
Total Monthly Charges =		\$257.43

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
N/A	N/A

* 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: August 27, 1992

Expiration Date: August 26, 1993


MANAGER, WASTEWATER DEPARTMENT


DATE



WASTEWATER DISCHARGE PERMIT

Terms and Conditions

BP OIL COMPANY # 11266
Account No. 502-58171
Page 4

MONITORING and TESTING CHARGES

Total EBMUD Inspections Per Year: 4 @ \$510.00 each = \$2,040.00 /year

Total Analyses Per Year:

Parameter	Tests per year	Charge per test	Total Charge per year
EPA 624	4	\$156.00	\$624.00
EPA 625	1	\$199.00	\$199.00
Metals	1	\$111.00	\$111.00

Monitoring and Testing Charge = \$2,974.00 /year
\$247.83 /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: \$0.32 /Ccf

Volume discharged in Ccf/month = 30 \$9.60 /month

WASTEWATER CAPACITY FEE

The capacity fee is calculated by multiplying the monthly wastewater discharge volume by the applicable fee in effect at start-up. Each month, 1/36 of the capacity fee will be charged, until the entire fee has been paid in 3 years.

Discharge volume	=	22751 gallons per month	
Capacity fee rate	=	\$46.72 /Ccf-month	
Capacity fee	=	\$1,421.03 or	\$39.47 /month

SD-307 2/81



WASTEWATER DISCHARGE PERMIT APPLICATION

PERMIT NUMBER
502-58171

APPLICANT BUSINESS NAME

BP OIL COMPANY - NORTHWEST DIVISION

ADDRESS OF PREMISE DISCHARGING WASTEWATER

1541 Park Street

STREET ADDRESS

Alameda, California

94501

CITY

ZIP CODE

BUSINESS MAILING ADDRESS

16400 Southcenter Parkway, Suite 301

STREET ADDRESS

Tukwila, WA

98188

CITY

ZIP CODE

CHIEF EXECUTIVE OFFICER

Mr. Peter DeSantis

NAME

Group Leader- Environmental Resources Mgmt.

TITLE

16400 Southcenter Parkway- Suite 301

STREET ADDRESS

Tukwila, WA

CITY

98188

ZIP CODE

PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Mr. Frederick Moss

NAME

Senior Engineer

510-521-2684

TITLE

PHONE

PERSON TO BE CONTACTED IN EVENT OF EMERGENCY

Mr. Frederick Moss

NAME

510-521-2684

DAY PHONE

N/A

NIGHT PHONE

DOCUMENTATION TO BE RETURNED WITH THE PERMIT APPLICATION:

- | | |
|--|---|
| <input checked="" type="checkbox"/> PROCESS DESCRIPTION | <input checked="" type="checkbox"/> DESCRIPTION OF TREATMENT SYSTEM |
| <input type="checkbox"/> WATER BALANCE CALCULATIONS | <input checked="" type="checkbox"/> SELF-MONITORING METHOD |
| <input type="checkbox"/> WASTEWATER STRENGTH DATA BASE | <input checked="" type="checkbox"/> SPILL PREVENTION AND CONTAINMENT PLAN |
| <input checked="" type="checkbox"/> SCHEMATIC FLOW DIAGRAM | <input type="checkbox"/> A LIST OF ALL ENVIRONMENTAL PERMITS
(E.G. Air, Hazardous Waste) |
| <input checked="" type="checkbox"/> BUILDING LAYOUT PLAN | <input type="checkbox"/> 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.

PETER J DESANTIS

NAME (See certification requirements on reverse)

Peter J DeSantis

SIGNATURE

ENVR. RES. MANAGER

TITLE

6-26-92

DATE



BP Oil Station #11266
Account No. 502-58171
Page No. 1

STANDARD PROVISIONS AND REPORTING REQUIREMENTS CONDITIONS

- I. BP Oil Station #11266, located at 1541 Park Street in Alameda, shall comply with all items of the attached STANDARD PROVISIONS AND REPORTING REQUIREMENTS, 02/92 Revision.

REPORTING REQUIREMENTS

- I. BP Oil Station #11266 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. BP Oil Station #11266 shall collect samples per the schedule found in the Self-Monitoring and Reporting Requirements, Section IV, on page 3 of this permit.
- III. BP Oil Station #11266 shall submit quarterly reports due October 15, 1992, (for July 1 through September 30), January 15, 1993, (for October 1 through December 31), April 15, 1993, (for January 1 through March 31), and July 15, 1993 (for April 1 through June 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, if in use, using current loading data.
 3. Copies of the Facility Inspection Log. This log must include flow totalizer readings for each sample date, maintenance activities performed, description of operational changes, visual observations of the unit for leaks or fouling and offhaul of hazardous wastes.



WASTEWATER DISCHARGE PERMIT

Terms and Conditions

BP Oil Station #11266
Account No. 502-58171
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



WASTEWATER DISCHARGE PERMIT

Terms and Conditions

BP Oil Station #11266
Account No. 502-58171
Page No. 3

SELF-MONITORING REPORTING REQUIREMENTS

- I. BP Oil Station #11266 shall 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 tap "A", also known as side sewer no. 1, shall be the sample tap (effluent) located on the effluent side of the carbon vessel and the flow meter. Sample tap "B" shall be the sample tap (biotreated) located between the bioremediation tank and the carbon vessel. Sample tap "C" shall be the sample tap (influent) located on the influent side of the bioremediation tank. Sample tap locations are as shown on the Hydro-Environmental Technologies, Inc. Remediation Schematic (Figure 5) dated August 13, 1992.
- IV. Sample locations "A", "B" and "C" per the following schedule:

1 hour after startup:	1 sample per location ¹
Week 1:	3 samples/week per location
Week 2 - 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 the District at 510/287-1351.
- V. Parameters to be monitored and sample types:

 Volatile Organics (EPA method 624) - grab sample.
 Lead - grab sample.
- 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.

File

**CERTIFIED MAIL
(Return Receipt Requested)
No. P790 283 144**

266

August 26, 1992

Mr. Peter DeSantis
BP Oil Company Northwest Division
16400 Southcenter Parkway- Suite 301
Tukwila, WA 98188

Dear Mr. DeSantis;

Re: Wastewater Discharge Permit (Account No. 502-58171)

Enclosed is the Wastewater Discharge Permit for your facility, effective August 26, 1992 through August 26, 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.

BP Oil Company 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 287-1623.

Sincerely,



JOSEPH G. DAMAS
Manager of Source Control

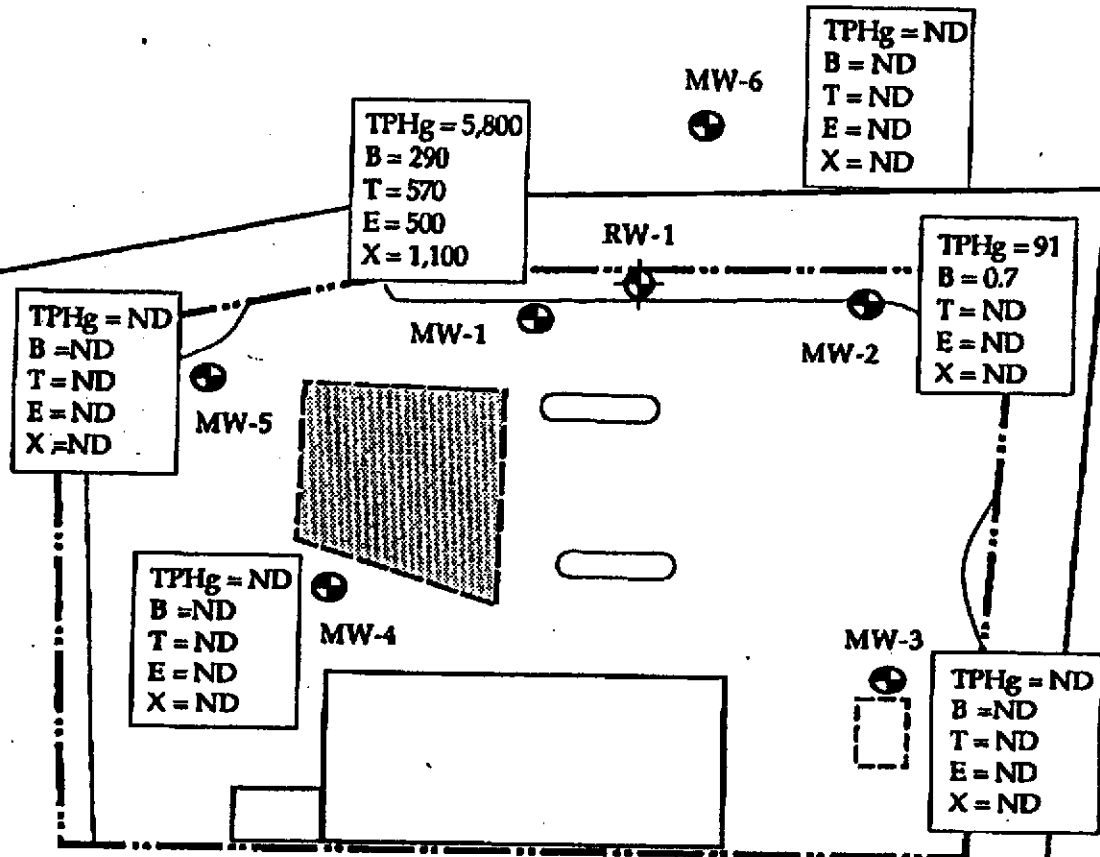
JGD:SAA:llg

sc2a.45_102

Enclosures

cc: Brian Gwinn
Hydro-Environmental Technologies, Inc.
2363 Mariner Square Drive, Suite 243
Alameda, CA 94501

North

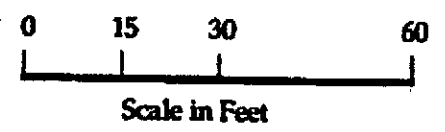


EXPLANATION

- Monitoring well
- Recovery well

TPHg = ND = TPHg=Total Petroleum Hydrocarbon as gasoline
 B = ND = Benzene
 T = ND = Toluene
 E = ND = Ethylbenzene
 X = ND = Total xylenes
 ND=analyte concentration did not exceed method detection limit

All analytes are in ppb (µg/L)
 Sample date: March 30, 1992



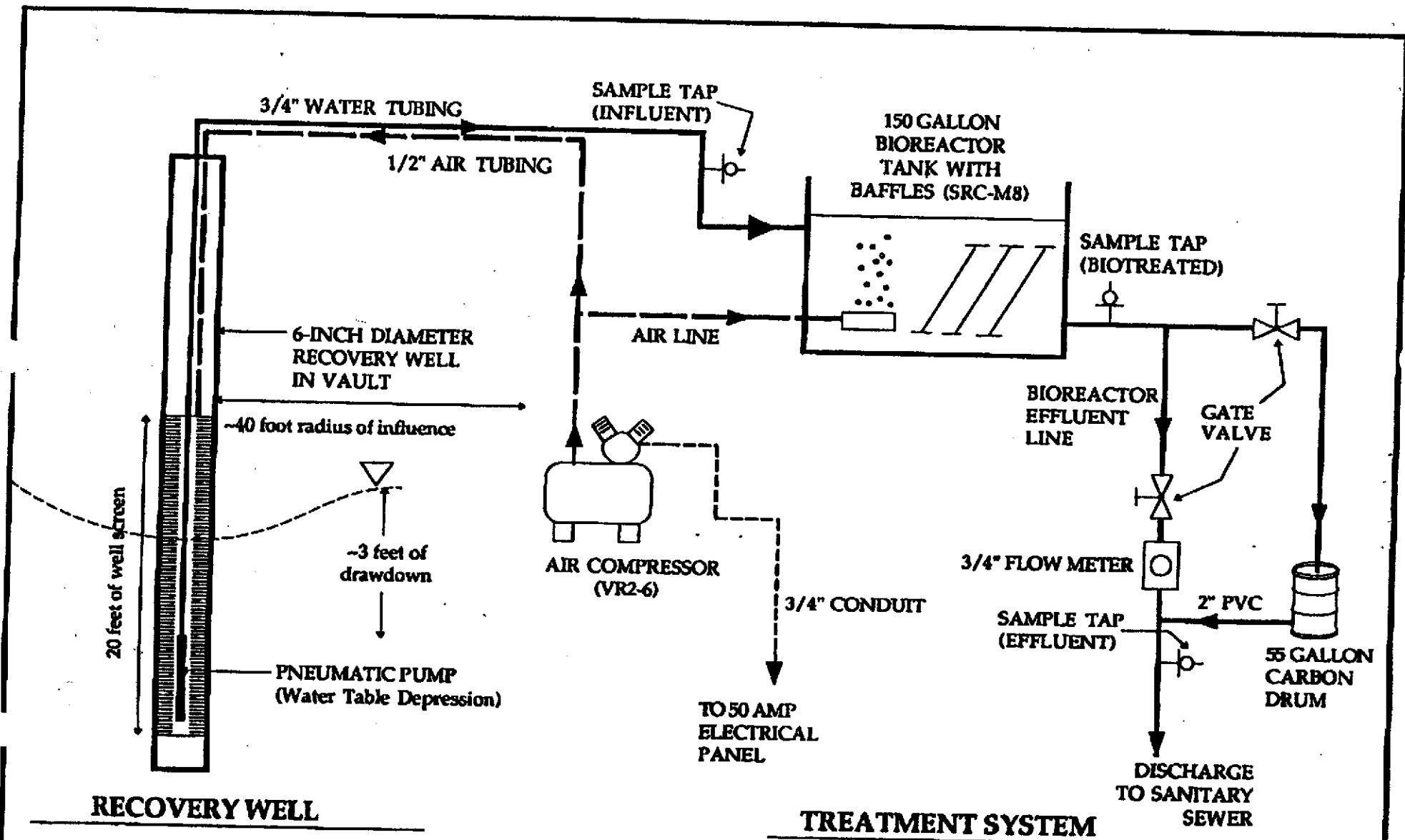
HYDR
ENVIRONMENTAL
TECHNOLOGIES, INC.

TPHg/BTEX CONCENTRATION MAP

BP SERVICE STATION No. 11266
 1541 Park Street, Alameda, California

Figure
4

9-031 3/30/92



FLOW RATE: 1-2 GALLONS/MINUTE

**HYDR-
ENVIRONMENTAL
TECHNOLOGIES, INC.**

REMEDICATION SCHEMATIC

BP SERVICE STATION No. 11266
1541 Park Street, Alameda, California

Figure

5

9-031 | 8/13/92



Business Name BP Oil Station #11266

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
502-58171

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 _____

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)		748	A	748					
	---	748		748					
Subtotal				748	---	---	---	---	

EBMUD AND OTHER SUPPLY TOTAL 748

ALL SIDE SEWERS TOTAL 748

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: Groundwater extracted from shallow aquifer and sent through a bioremediation treatment unit for clean up.

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			

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

ACCEPTED
copy

HEALTH AND SAFETY PLAN
FOR
DRILLING AND CONSTRUCTION ACTIVITIES

AT THE
BP SERVICE STATION
1541 PARK STREET
ALAMEDA, CALIFORNIA

PREPARED BY

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.
2363 MARINER SQUARE DRIVE
ALAMEDA, CALIFORNIA

APRIL 1992

TABLE OF CONTENTS

	Page
1.0 <u>IMPORTANT LOCATIONS AND TELEPHONE NUMBERS</u>	1
2.0 <u>SITE DESCRIPTION</u>	1
3.0 <u>SCOPE OF SERVICES</u>	1
4.0 <u>ONSITE ORGANIZATION</u>	2
5.0 <u>ONSITE CONTROL</u>	2
6.0 <u>HAZARD EVALUATION</u>	2
7.0 <u>REQUIRED PROTECTION</u>	4
8.0 <u>AIR MONITORING</u>	5

FIGURES

1	SITE LOCATION
2	SITE PLAN

1.0 IMPORTANT LOCATIONS AND TELEPHONE NUMBERS

- **ALAMEDA HOSPITAL**
2070 Clinton Avenue Alameda, CA

Go southwest (towards the bay) on Park St., turn right on Clinton, hospital is on the left.

Telephone (510) 523-4357

- Police Department - 911
Fire Department - 911

2.0 SITE DESCRIPTION

Company Name: BP Oil Company, Rancho Cordova, CA.

Site Location: Southwest corner at 1541 Park St Alameda, CA.
(Figure 1)

Property Owner: BP Oil Company
Cleveland, OH

Contact Person: Tony Ramirez (510) 521-2684
Hydro-Environmental Technologies, Inc. (HETI)

Hazards: Traffic, noise, hydrocarbon exposure and utilities (obstruction) during the process of drilling, excavating and construction of facilities

3.0 SCOPE OF SERVICES

- Work planned at this site includes drilling a 30 foot deep recovery well, installing water treatment equipment, trenching, paving and utility connection. This work was described in the "Remedial Action Plan" prepared by HETI on February 28, 1992.

4.0 ONSITE ORGANIZATION

Site Safety Officer: Tony Ramirez

Field Leader: Tony Ramirez

Contractor Chris Pruner
Representative: Kvilhaug Well Drilling
1109 Landini Lane
Concord, CA
License # C482390

Bruce Jacobsen
DECON Env. Services
26102 Eden Landing Rd.
Hayward, CA
License # 545726

5.0 ONSITE CONTROL

Mr. Ramirez (Geologist) will monitor all drilling activities. Ms. Maroni (Engineer) will inspect construction activities. A safe work zone has been established for drilling activities. Monitoring of ambient hydrocarbon vapor concentrations will be conducted by HETI. Traffic safety devices will be utilized as needed.

6.0 HAZARD EVALUATION

6.1 Chemical Hazard

According to laboratory analysis of soil samples from this drill site, the possible contaminants to be encountered during drilling are petroleum hydrocarbons as gasoline (gasoline), benzene, toluene, ethylbenzene, and xylene.

Inhalation and skin absorption present the main exposure hazards. Based on laboratory analysis of the soil, we do not anticipate the potential levels of exposure will exceed permissible exposure limits (PEL) or threshold limit value (TLV) limits set by the Occupational Safety and Health Administration (OSHA).

Following are short descriptions of each contaminant suspected of being present onsite:

- *Gasoline*

Gasoline is a clear, aromatic, volatile liquid. It is a mixture of aliphatic hydrocarbons and has:

- Flash point = 50°F
- Lower exposure limit = 1.3%
- TLV in the air = 300 ppm
- OSHA 8-hour time weighted average (TWA) PEL = 300 ppm
- OSHA short-term exposure limit (STEL) 15 minute = 500 ppm

- ***Benzene***

This is a carcinogenic (cancer causing) substance. Benzene is a common constituent of gasoline and other petroleum product materials. It is a clear, colorless liquid and has:

- Flash point = 12°F
- TLV = 1 ppm
- OSHA PEL = 1 ppm
- STEL (15 minute) = 5 ppm

- ***Ethylbenzene***

- Flash point = 59°F
- OSHA 8-hour TWA = 100 ppm
- OSHA STEL = 125 ppm

- ***Toluene***

This material is a flammable, colorless liquid and has:

- Flash point = 40°F
- TLV in the air = 100 ppm
- STEL = 150 ppm
- OSHA PEL (8-hour TWA) = 100 ppm
- OSHA STEL = 150 ppm

- ***Xylene***

This clear liquid has:

- Flash point = 100°F
- TLV in the air = 100 ppm
- OSHA PEL (8-hour TWA) = 100 ppm
- OSHA STEL = 150 ppm

It is not anticipated that vapors of this type will be encountered during construction activities.

6.2 Physical Hazards

Because the anticipated work is to be performed as a "normal" working day, all aspects of safety concerning drilling will be adhered to; Safety requirements such as but not limited to:

Driller will examine all wires/cables daily
Drilling equipment will be maintained in safe operating condition
Drilling equipment will meet state safety requirements
Driller will block/chock rig as required
All personnel and visitors in the work area will have completed 40 hours of OSHA training or have current 8 hours of a refresher course

The main physical hazards during construction are:

- **Dust**
- **Noise**
- **Vehicular traffic**
- **Bodily injury due to equipment operation**
- **Strain: lifting, slipping, tripping, falling, or moving equipment**
- **Underground utility lines**

All personnel in the work area will know the location of:

- first aid kit
- fire extinguisher
- telephone

7.0 REQUIRED PROTECTION

At a minimum, Level D of protection will be applied to the work zone. That is, field personnel and visitors are required to wear the following clothing and equipment:

- **Hard hat (ANSI Z89.1)**
- **Safety glasses (ANSI Z87.0)**
- **Safety shoes (steel toe) (ANSI Z41.0)**
- **Gloves (nitrile)**
- **Hearing protection**

8.0 AIR MONITORING

An organic vapor meter (OVM) will monitor the air space within a 2 foot radius of the auger bit and at a height of 5 feet every hour . If hydrocarbon odors within this area become detectable with the OVM at a concentration of 10 parts per million (ppm) of total organic compounds, the personnel assigned to the project will upgrade their personal protection with half face respirators with organic vapor cartridges.

No hand to mouth transfer is to occur within the work zone. Workers are required to wash hands and face with soap thoroughly after work or before meals.

This report prepared by *Tony Ramirez*
Tony Ramirez
Staff Geologist

This report reviewed by *Frederick Moss*
Frederick G. Moss, P.E., No. 35162
Senior Engineer

I have read and understand this document and will abide by the provisions herein:

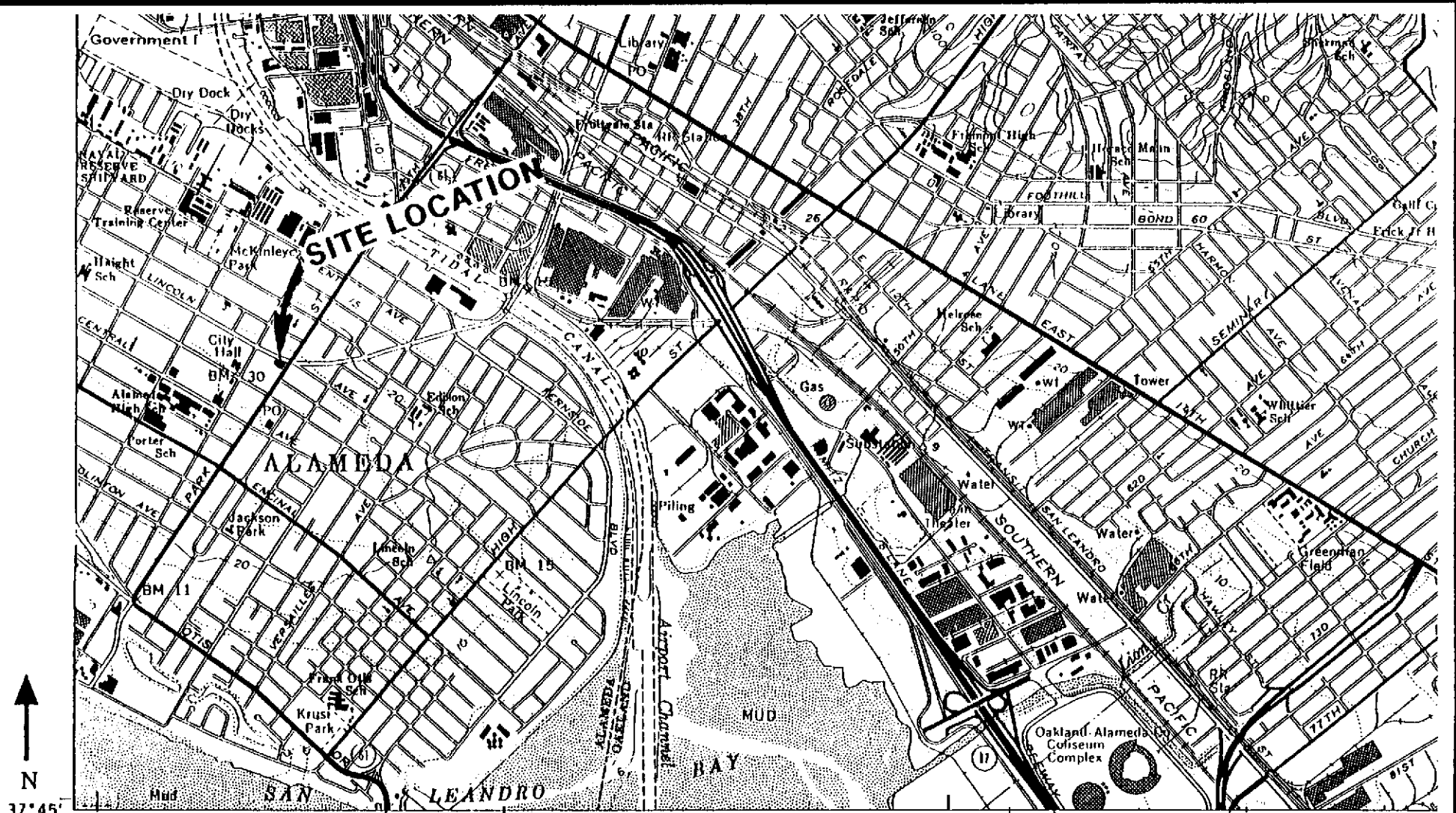
Kvilhaug Well Drilling

DECON Env. Services

Date

Date

FIGURES



Scale 1: 24000
 0 2000'

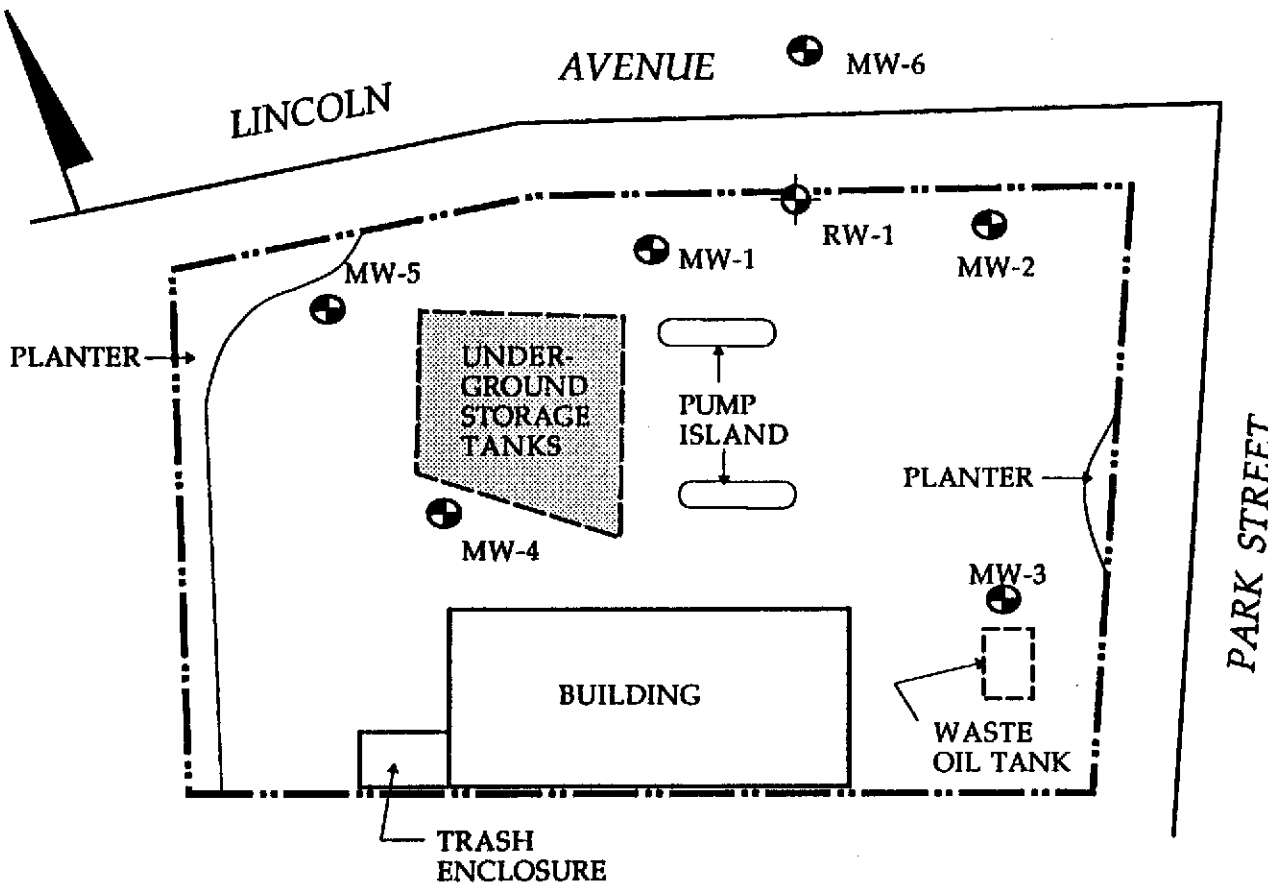
Source: U.S.G.S. Oakland East Quadrangle, CA
 7.5 Minute Series (Topographic)

**HYDRO-
 ENVIRONMENTAL
 TECHNOLOGIES, INC.**



SITE LOCATION MAP
 BP SERVICE STATION No. 11266
 1541 PARK STREET
 ALAMEDA, CA

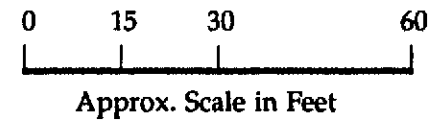
**FIGURE:
 1**
 Job No. 9-031

North



EXPLANATION

-  Monitoring well
-  Proposed Recovery well



HYDR-
ENVIRONMENTAL
TECHNOLOGIES, INC.

SITE PLAN

BP SERVICE STATION No. 11266
1541 Park Street, Alameda, California

Figure

2

9-031	3/6/92
-------	--------

92 APR 15 11:05

April 13, 1992

9-031

Mr. Brian Oliva - Hazardous Materials Specialist,
Alameda County Department of Environmental Health,
80 Swan Way, Room 200
Oakland, CA 94621

Subject: BP Oil Station # 11266, 1541 Park Street, Alameda, CA

Dear Mr. Oliva:

Hydro-Environmental Technologies, Inc. (HETI) has reviewed your request for clarification and additional information regarding the bioremediation system proposed for installation at the subject site. Your letter dated March 25, 1992 requested the following items:

- 1) A copy of the approved permit for the recovery well.
- 2) A copy of the site health and safety plan.

These items are enclosed. The scheduled drilling date for the recovery well is April 13, 1992. When the drilling contractor arrives at the site, HETI personnel will review the health and safety plan with their personnel. Although construction of the bioremediation system is not yet scheduled, HETI will also review the provisions in the plan with the selected contractor before installation of equipment and site construction begins.

As described in the "Remedial Action Plan" prepared by HETI, ground water will be processed through an above-ground bioreactor tank. This tank will be aerated to stimulate biodegradation of petroleum hydrocarbons by indigenous bacteria present in the ground water. Various natural strains of bacteria, such as Pseudomonas and Arthrobacter, are ubiquitous in shallow soils and ground water. By introducing oxygen and providing a substrate for growth these naturally occurring bacteria will thrive.

Initially there may be a lag period of time to establish a vigorous culture, hence effluent from the bioreactor will be routed through activated carbon. When effluent sampling results indicate that the concentrations of dissolved hydrocarbons are below discharge limitations the flow from the bioreactor will bypass the activated carbon unit and be routed directly to the sanitary sewer.

HETI will conform to the monitoring schedule as modified in your letter dated March 25, 1992. We will provide you with a report following the start up period which will include operational and laboratory data. Hopefully this report will provide sufficient information for you to evaluate reduction in the effluent sampling frequency.

If you have any questions, please contact me at (510) 521-2684.

Sincerely,
HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.



Frederick G. Moss,
Senior Engineer

cc: Peter J. DeSantis, BP Oil Company

enclosures

92 APR 13 11:17

April 6, 1992

9-031

Mr. Jeff Boers, Associate Planner
Planning Dept. - City of Alameda
2263 Santa Clara Avenue
Alameda, CA 94501

Subject: Minor Design Review
BP Oil Station # 11266
1541 Park Street - Alameda

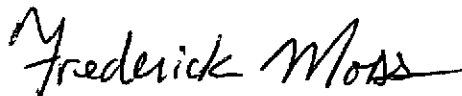
Dear Mr. Boers:

Enclosed is an application form and fee (\$ 50.00) for the subject site. Hydro-Environmental Technologies, Inc. (HETI) has been retained by BP Oil to install the equipment shown on the attached figures. In order to complete this installation, two parking spaces at the rear of the site will be temporarily displaced until site remediation is complete. Please note that although the site plan (prepared by Majors Engineering) shows parking stalls aligned perpendicular to the curb, the painted stripes for these stalls have been aligned for angle parking.

The installation of this equipment has been approved by the Alameda County Department of Environmental Health (ACDEH) and a pumping well will be installed on April 13, 1992. HETI is also preparing a sewer discharge permit for submittal to EBMUD.

Please process the following application and advise of of your comments so that we may proceed with equipment purchase and installation on a timely basis. If you have any questions please call me at (510) 521-2684.

Sincerely,
HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.



Frederick G. Moss,
Senior Engineer

cc: Brian Oliva, ACDEH ✓
Peter J. DeSantis, BP Oil Company

enclosures

PLANNING DEPARTMENT

MINOR DESIGN REVIEW APPLICATION

Project Address: 1541 Park Street, Alameda

Contact Person: Fred Moss, Hydro-Environmental Phone No.: (510)521-2684

Mailing Address: 2363 Mariner Square Drive, Suite 243, Alameda, CA 94501

Owner of Property (if different from above): BP Oil Company

Address of Property Owners (if different from above): 200 Public Square Cleveland, Ohio 44114

Signature of Property Owner: *Fred Moss for BP Oil Co*

Describe the project, including existing structures related to it: _____

Installation of outdoor equipment within a fenced enclosure.

Equipment to be used for groundwater purification. No equipment

will be visible above fence and no excessive noise or odors will

be generated.

Design features and materials:

Walls: _____

Roofing: _____

Fences: 6 Foot Chain Link

Trim: _____

Colors: White/Brown/Black

Windows: _____

For Office Use Only

Central Permit Application No. _____ Design Review Application No. _____

Fees Paid: Date: _____ Amount: _____

Date: _____ Amount: _____