

July 11, 1995

Ms. Cynthia Adkinson
East Bay Municipal Utility District
Source Control Division
P.O. Box 24055
Oakland, California 94623

10-025-07-002

Subject:

Sewer Discharge Permit - Semi-Annual Report

BP Oil Company Service Station 11133

2220 98th Avenue Oakland, California

Wastewater Discharge Permit No. 503-00381

Dear Ms. Adkinson:

On behalf of BP Oil Company, we have enclosed a summary of analytical results for the remediation system sampling events and quantity discharged for BP Oil Company Service Station No. 11133, 2220 98th Avenue, Oakland, California. The previous report covered the period from January 1 to March 31, 1995, therefore, this report covers the period from April 1 to June 30, 1995. The next report will cover the period from July 1 to December 31, 1995.

The groundwater treatment system was started in March 1995. The total volume discharged for the period is presented in Table 1. The results of influent, intermediate, and effluent sample analysis are presented in Table 2. The sampling point locations are shown in Figure 1. The laboratory reports and chain of custody records are presented in Attachment A.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information 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." Ms. Cynthia Adkinson July 11, 1995 Page 2

Please call if you have questions regarding this report.

Sincerely,

ALISTO ENGINEERING GROUP

Peter Beaver

Engineering Manager

cc: Scott Hooton, BP Oil Company

Eva Chu, Alameda County Health Care Services Agency





ENVIRONMENTAL PROTECTION 95 APR 17 PM 2:35

April 14, 1995

Ms. Eva Chu
Department of Environmental Health
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-657780

10-025-07-002

Subject:

Sewer Discharge Permit - Monthly Report

BP Oil Company Service Station 11133

2220 98th Avenue Oakland, California

Wastewater Discharge Permit No. 503-00381

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The groundwater treatment system was started in March 1995. Results of sample analysis indicate that petroleum hydrocarbon constituents were not present above the reported detection limits in the effluent samples. The total volume discharged for the period is presented in Table 1. The results of influent, intermediate, and effluent sample analysis are presented in Table 2. The sampling point locations are shown in Figure 1. The laboratory report and chain of custody record are presented in Attachment A.

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Ms. Eva Chu Arpil 14, 1995 Page 2

Please call if you have questions regarding this report.

Sincerely,

ALISTO ENGINEERING GROUP

Peter Beaver

Éngineering Manager

cc: Scott Hooton, BP Oil Company

Cynthia Adkinson, East Bay Municipal Utility District



April 14, 1995

Ms. Cynthia Adkinson
Source Control Division
East Bay Municipal Utility District
P.O. Box 24055
Oakland, California 94623

10-025-07-002

Subject:

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BP Oil Company Service Station 11133

2220 98th Avenue Oakland, California

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Ms. Cynthia Adkinson April 14, 1995 Page 2

Please call if you have questions regarding this report.

Sincerely,

ALISTO ENGINEERING GROUP

Peter Beaver

Engineering Manager

cc: Scott Hooton, BP Oil Company Eva Chu, Alameda County Health Care Services Agency

TABLE FLOW DATA FOR GROUNDWATER TREATMENT SYSTEM 95 APR 17 PM 2220 98TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-025

DATE	FLOW METER	EFFLUENT	AVERAGE	AVERAGE
	READING	DISCHARGED	FLOW RATE	FLOW RATE
	(Gallons)	(Gallons)	(GPD)	(GPM)
03/21/95	0	0	0	0.00
03/27/95	3069	3069	512	0.36

ABBREVIATIONS:

GPD

Gallons per day

GPM

Gallons per minute
Not available/applicable

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER TREATMENT SYSTEM OPERATION BP OIL COMPANY SERVICE STATION NO. 11133 2220 98TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-025

Sample ID	Date	TPH-G (ppb)	B (ppb)	(ppb)	E (ppb)	X (ppb)	Lead (ppm)	LAB
II FU	03/21/95	(180000)	152000	55000	5100	27000	Service Control	ATI
PS-t	03/21/95	47000	890	4200	1400	8400		ATI
A-1	03/21/95	ND-<50	NO-k0.50	ND+0.50	ND<0.50	ND<1,0		ATI
B-1	03/21/95	88	ND<0.50	2	ND<0.50	2	+	ITA
E-1	03/21/96	ND<50	ND-0350	NO+0.50	ND<0.50	ND<1,0	ND+0,002	ATI

ABBREVIATIONS:

Total petroleum hydrocarbons as gasoline

B T E X

Toluene Ethylbenzene

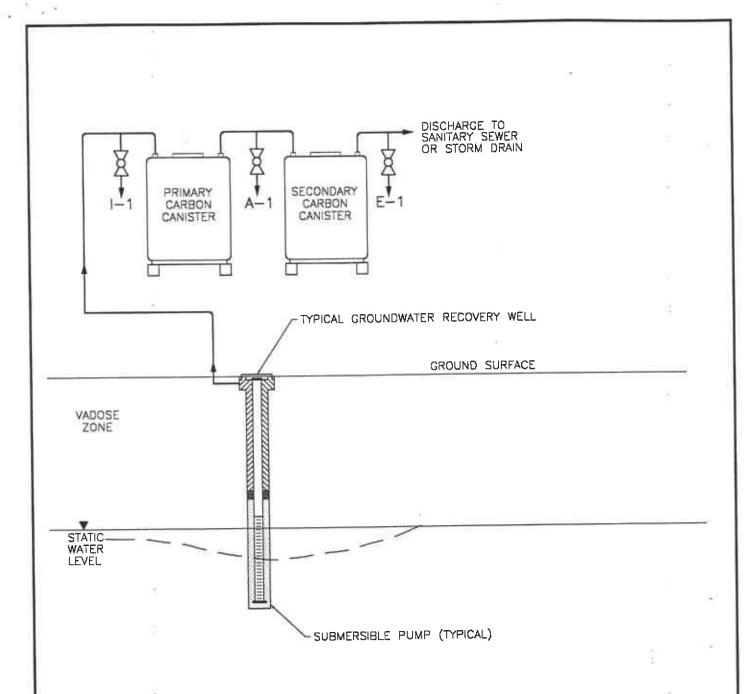
ATI

Total xylenes
Parts per billion
Intermediate sampling port

PS-1 A-1 B-1 E-1 ND Effluent sampling port

Not detected above reported detection limit Not analyzed

Analytical Technologies, Inc.



LEGEND

! = INFLUENT

A = INTERMEDIATE

E = EFFLUENT

Ž

SAMPLE PORT

FIGURE 1

ACTIVATED CARBON TREATMENT SYSTEM SAMPLING LOCATIONS

BP OIL SERVICE STATION NO. 11138 2220 98TH AVENUE OAKLAND, CALIFORNIA

PROJECT NO. 10-025



ATTACHMENT A LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



ATI I.D.: 503289

March 28, 1995

ALISTO ENGINEERING 1777 OAKLAND BOULEVARD, SUITE 200 WALNUT CREEK, CA 94596

Project Name: BP SITE #11133/2220 98TH AVE, OAKLAND, CA

Project # : G418846/10-025-07-001

Attention: PETE BEAVER

Analytical Technologies, Inc. has received the following sample(s):

Date Received	Quantity	Matrix
March 23, 1995	5	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

CHRISTOPHER MYERS PROJECT MANAGER ALAN J./ KLEINSCHMEDT LABORATORY MANAGER

MAR 3 1 1995



SAMPLE CROSS REFERENCE

Page 1

Client : ALISTO ENGINEERING

Report Date: March 28, 1995

Project # : G418846/10-025-07-001

ATI I.D. : 503289

Project Name: BP SITE #11133/2220 98TH AVE, OAKLAND, CA

ATI # Client Description		Matrix	Date Collected
1	STA#11133-INF	WATER	21-MAR-95
2	STA#11133-PS	WATER	21-MAR-95
3	STA#11133-A	WATER	21-MAR-95
4	STA#11133-B	WATER	21-MAR-95
5	STA#11133-EFF	WATER	21-MAR-95

---TOTALS---

Matrix

Samples

WATER

5

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING

Project # : G418846/10-025-07-001

Project Name: BP SITE #11133/2220 98TH AVE, OAKLAND, CA

Page 2

ATI I.D.: 503289

Analysis Technique/Description

EPA 7421 (LEAD)

MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)

ATOMIC ABSORPTIO'!/GRAPHITE FURNACE

GC/FLAME ION./PHOTO IONIZATION DETECTOR



METALS RESULTS

Page 3

Client	: ALISTO ENGINEERING	
Project #	: G418846/10-025-07-001	ATI I.D.: 503289

Project Name: BP SITE #11133/2220 98TH AVE, OAKLAND, CA

Samp #	le Client ID	Matrix	Date Sampled	Date Received
5	STA#11133-EFF	WATER	21-MAR-95	23-MAR-95
Para	meter	Units 5		

LEAD MG/L <0.002



METALS - QUALITY CONTROL

DUP/MS

Page 4

	REF I.). Units	Sample Result	Dup Result	RPD	Spiked Sample	Spike Conc	% Rec
LEAD		-02 MG/L			6	1.83	2.00	87

[%] Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Sample Result - Duplicate Result)*100/Average Result



METALS - QUALITY CONTROL

BLANK SPIKE

Page 5

Client : ALISTO ENGINEERING

Project # : G418846/10-025-07-001

ATI I.D. : 503289

Parameters	Blank Spike ID#	Units	Blank Result	Spiked Sample	Spike Conc.	ક Rec
LEAD	55392	MG/L	<0.002	1.94	2.00	97

[%] Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Sample Result - Duplicate Result)*100/Average Result



GAS CHROMATOGRAPHY RESULTS

Page 6

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)

: ALISTO ENGINEERING ATI I.D. : 503289

Client : ALISTO ENGINEERING Project # : G418846/10-025-07-001

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1 2 3	STA#11133-INF STA#11133-PS STA#11133-A	WATER WATER WATER	21-MAR-95 21-MAR-95 21-MAR-95	N/A N/A N/A	27-MAR-95 27-MAR-95 27-MAR-95	1000.00 100.00 1.00
Parame	ter	Units	1	2	3	
BENZEN	 [E	UG/L	32000	690	<0.50)
TOLUEN	· · · · · · · · · · · · · · · · · · ·	UG/L	55000	4200	<0.50) :
	ENZENE	UG/L	5100	1400	<0.50)
	S (TOTAL)	UG/L	27000	8400	<1.0	
	YDROCARBONS	UG/L	180000	47000	<50	
	CARBON RANGE	•	C6-C12	C6-C12	C6-C1	L 2
	ARBONS QUANTITATED USING		GASOLINE	GASOLINE	GAS01	LINE
SURROG	ATES					
TRIFLU	OROTOLUENE	8	93	102	97	



GAS CHROMATOGRAPHY RESULTS

Page 7

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)

Client : ALISTO ENGINEERING ATI 1.D. : 503289

Project # : G418846/10-025-07-001

Sample #	Client ID	Matrix		Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4 5	STA#11133-B STA#11133-EFF	WATER WATER		21-MAR-95 21-MAR-95	•	27-MAR-95 27-MAR-95	1.00
Parame	ter	Units	4		5		
BENZEN	E	UG/L	<0.50	•	<0.50		
TOLUEN	E	UG/L	117		<0.50		
ETHYLB:	enzene	UG/L	<0.50)	<0.50		
XYLENE	S (TOTAL)	UG/L	2.1		<1.0		
FUEL H	YDROCARBONS	UG/L	88		<50		
HYDROC	ARBON RANGE	•	C6-C1	.2	C6-C12		
HYDROC	ARBONS QUANTITATED USING		GASOL	INE	GASOLINE		
SURROG	ATES						
TRIFLU	OROTOLUENE	8	97		97		



GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

: MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)

ATI I.D. : 503289

Blank I.D. : 34811

Date Extracted: N/A

Page 8

Date Analyzed: 27-MAR-95

: ALISTO ENGINEERING

Project # : G418846/10-025-07-001

Dil. Factor : 1.00

Parameters		Units	Results	
BENZENE		UG/L	<0.50	
TOLUENE	-	UG/L	<0.50	
ETHYLBENZENE		UG/L	<0.50	· -
XYLENES (TOTAL)	4	UG/L	<1.0	
FUEL HYDROCARBONS		UG/L	<50	
HYDROCARBON RANGE		•	C6-C12	
HYDROCARBONS QUANTITATED USING			GASOLINE	
SURROGATES				
TRIFLUOROTOLUENE		€	89	



GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Page 9

: MOD EPA 8015-CDOHS (FUEL- HYDROCARBONS/BTXE) : 74272

ATI I.D. : 503289 Date Extracted: N/A

MSMSD # : ALISTO ENGINEERING Client

Date Analyzed: 27-MAR-95

Sample Matrix : WATER

Project # : G418846/10-025-07-001

REF I.D. : 503276-02

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	₹ Rec	Dup Spike	Dup % Re	RPD C	
BENZENE	UG/L	<0.50	5.0	4.7	94	4.6	92	2	
TOLUENE	ng/r	<0.50	5.0	4.9	98	4.7	94	4	

[%] Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result



GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

: MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BIXE)

: 503289 ATI I.D.

Blank Spike #: 55375

Date Extracted: N/A

Page 10

Client

: ALISTO ENGINEERING

Date Analyzed: 27-MAR-95

Project #

: G418846/10-025-07-001

Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	ş Rec
BENZENE	UG/L	<0.50	4.8	5.0	96
TOLUENE		<0.50	5.0	5.0	100

[%] Recovery = (Spike Sample Result - Sample Result) *100/Spike Concentration RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result



					С	CHAIN OF CUSTODY								No 051247 Page/ of/				
CONSULTANT'S NAME ALISTO ENVINEER BP SITE NUMBER	THE COUNTRY A	DADESS/CIT	RESS 177	7	OPILL	ANT,	B	LUP	#	700	Ž	VC	-	-	STATE TANK PROJ	ECT NUMBE	ZIP CO	DE 59 E
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CONSULTANT PROJECT MANAGER HETE BEAVER		(57	BER 0)	7	95-1	1650)	FAX NI	(Q)	299		18	23	CONSUL	TANT CONT	RACT NUME	BER	
Scutt Hoofen	BP ADDRESS PHONE						NUMBER V 2 O NUMBER	1. ~			67	7 FAX NO.						
LAB CONTACT '	,	LABORATOR	Y APODRE	ss MM	Ellow	1e_ [DR	PHONE	inumber 19 –	-4	584	<i>F</i> -	9/4/	FAX NO.				
SAMPLED BY (Please Print Name) SCOTT Polston	$\sqrt{}$	SAMPLED	/ (Signati		175					SHIPME	NT DATE		//	1	SHIPMENT	METHOD		,
TAT: 24 Hours 48 H	Hours	1 Week Standard 2 Weeks				ANALYSIS REQUIRED								AIRBILL NUMBER				
SAMPLE DESCRIPTION 12/21/	COLLECTION	MATRIX	CONTAINERS PRESERVATIVE		11.4	Hd	HNOZ										, T	
	COLLECTION TIME	SOIL/WATER	NO.	TYPE (VOL.)	LAB SAMPLE#	GAS	BIET	Pb								COMI	MENTS	
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Stat 11/35-PS	1209,			$\perp \downarrow$	42	X	×										···································	
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