ALISTO ENGINEERING GROUP

July 11, 1995

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

10-005-03-002

Subject: Sewer Discharge Permit - Semi-Annual Report
BP Oil Company Service Station No. 11109
4280 Foothill Boulevard
Oakland, California
Wastewater Discharge Permit No. 502-77421

Dear Mr. Chan:

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. 11109, 4280 Foothill Boulevard, 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 30, 1995.

The results of sample analysis indicate that petroleum hydrocarbon constituents were not present above the reported detection limits in the effluent samples. The 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 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."

1575 TREAT BOULEVARD, SUITE 201 • WALNUT CREEK, CA 94598 • (510) 295-1650 • (510) 295-1823
CONTRACTORS LICENSE NO. A-652544

Please call if you have questions regarding this report.

Sincerely,

ALISTO ENGINEERING GROUP

Peter Beaver
Engineering Manager

Enclosures

cc: Robert Newman, East Bay Municipal Utility District
Scott Hooton, BP Oil Company

ALISTO ENGINEERING GROUP

July 11, 1995

Mr. Robert Newman
East Bay Municipal Utility District
Source Control Division
P.O. Box 24055
Oakland, California 94623

10-005-03-002

Subject: Sewer Discharge Permit - Semi-Annual Report
BP Oil Company Service Station No. 11109
4280 Foothill Boulevard
Oakland, California
Wastewater Discharge Permit No. 502-77421

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Sincerely,

ALISTO ENGINEERING GROUP

Peter Beaver
Engineering Manager

Enclosures

cc: **Barney Chan,** Alameda County Health Care Services Agency
Scott Hooton, BP Oil Company

TABLE 1 - FLOW DATA FOR GROUNDWATER TREATMENT SYSTEM
BP OIL COMPANY SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-005

DATE	FLOW METER READING (Gallons)	EFFLUENT DISCHARGED (Gallons)	AVERAGE FLOW RATE (GPD)	AVERAGE FLOW RATE (GPM)
02/15/94	0	0	—	0.00
02/28/94	1640	1640	126	0.09
03/30/94	3000	1360	45	0.03
04/29/94	12550	9550	318	0.22
05/31/94	16237	3687	115	0.08
07/01/94	19505	3268	105	0.07
07/29/94	30516	11011	393	0.27
09/03/94	50432	19916	553	0.38
10/05/94	72894	22462	702	0.49
10/31/94	96393	23499	904	0.63
11/29/94	130333	33940	1170	0.81
12/29/94	137135	6802	227	0.16
01/30/95	147776	10641	333	0.23
02/22/95	150774	2998	130	0.09
03/30/95	156834	6060	168	0.12
05/16/95	159944	3110	66	0.05
06/29/95	163362	3418	78	0.05
TOTAL FOR PERIOD		6528	148	0.10

ABBREVIATIONS:

GPD	Gallons per day
GPM	Gallons per minute
—	Not available/applicable

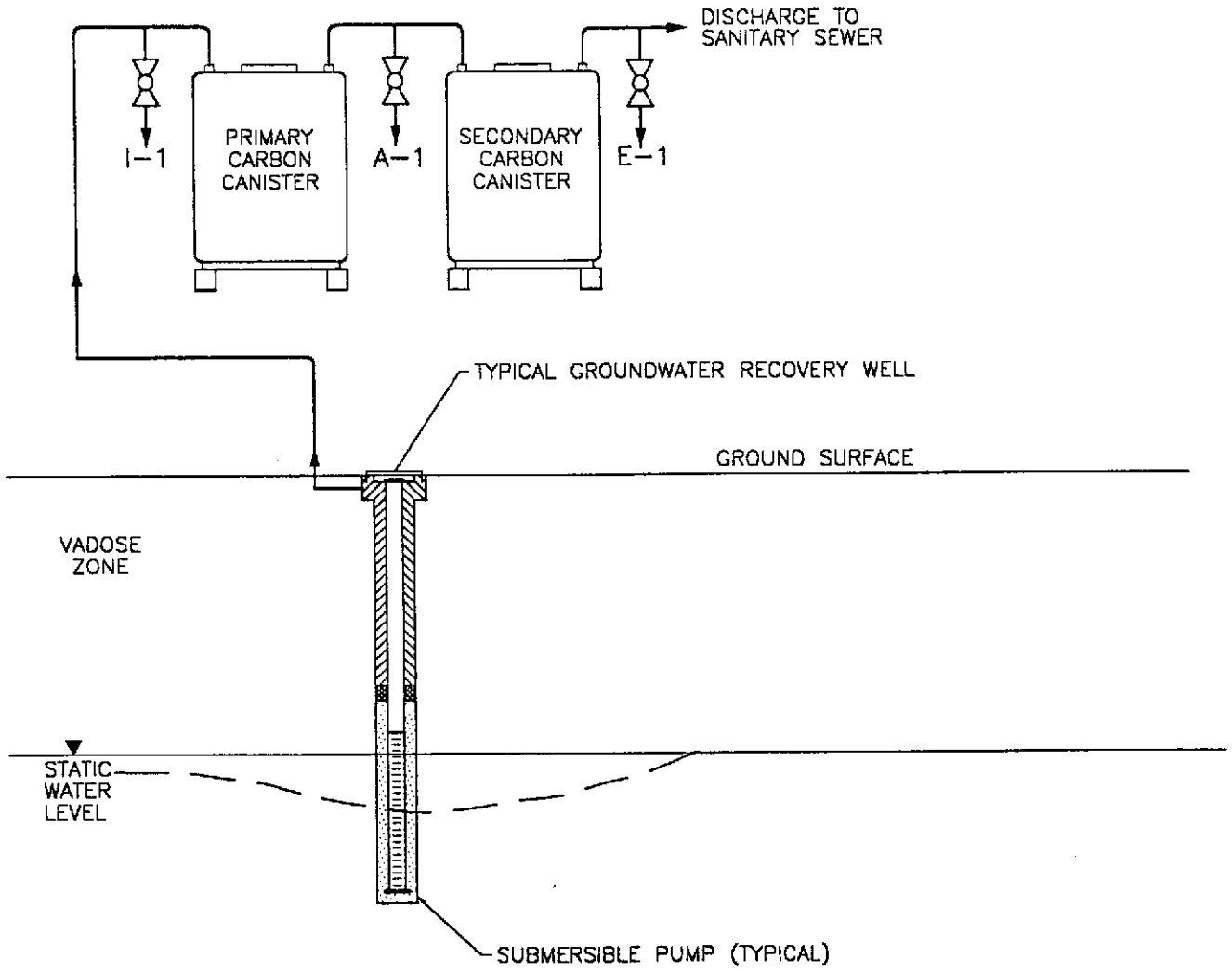
TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER TREATMENT SYSTEM OPERATION
BP OIL COMPANY SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-005

Sample ID	Date	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	UNKNOWN (ug/l)	MEK (ug/l)	Arsenic (mg/l)	Barium (mg/l)	Molybdenum (mg/l)	Copper (mg/l)	Nickel (mg/l)	Zinc (mg/l)	LAB
STA11109-I	02/15/94	---	---	810	440	ND<0.50	1400	---	ND<5.0	ND<0.005	0.15	ND<0.02	0.02	0.05	0.43	PACE
I-1	02/18/94	19000	---	2500	1300	180	1800	---	ND<5.0	---	---	---	---	---	---	PACE
I-1	02/25/94	19000	3700	2400	1300	190	1400	1400	---							PACE
I-1	03/07/94	5800	---	660	290	52	540	---	---	---	---	---	---	---	---	PACE
I-1	04/15/94	7600	---	740	240	ND<0.50	590	---	---	---	---	---	---	---	---	PACE
I-1	05/12/94	6800	---	710	470	67	730	---	---	---	---	---	---	---	---	PACE
I-1	06/16/94	6000	---	460	270	60	730	---	---	---	---	---	---	---	---	PACE
I-1	07/14/94	5300	2100	260	180	58	820	---	---	---	---	---	---	---	---	PACE
I-1	08/23/94	4700	1400	690	120	52	590	---	---	---	---	---	---	---	---	PACE
I-1	09/19/94	5900	2200	310	120	43	530	---	---	---	---	---	---	---	---	PACE
I-1	10/17/94	2500	ND<50	66	8.9	7.6	110	---	---	---	---	---	---	---	---	GTEL
I-1	11/15/94	14000	ND<50	1000	290	33	1200	---	---	---	---	---	---	---	---	GTEL
I-1	12/14/94	15000	---	2500	470	45	1200	---	---	---	---	---	---	---	---	GTEL
I-1	01/19/95	9300	79	3100	840	150	1500	---	---	---	---	---	---	---	---	ATI
I-1	02/06/95	14000	13000	2400	670	48	1200	---	---	---	---	---	---	---	---	ATI
I-1	02/22/95	11000	12000	1600	380	57	910	---	---	---	---	---	---	---	---	ATI
I-1	03/14/95	12000	15000	2000	560	38	1200	---	---	---	---	---	---	---	---	ATI
I-1	04/18/95	14000	9500	2400	650	60	1500	---	---	---	---	---	---	---	---	ATI
I-1	05/16/95	15000	12000	2800	830	100	1400	---	---	---	---	---	---	---	---	ATI
I-1	06/19/95	12000	9300	2300	700	98	1000	---	---	---	---	---	---	---	---	ATI
STA11109-A	02/15/94	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	ND<5.0	ND<0.005	ND<0.01	ND<0.02	ND<0.01	ND<0.02	0.13	PACE
A-1	02/18/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	ND<5.0	---	---	---	---	---	---	PACE
A-1	02/25/94	ND<50	---	1.1	0.8	ND<0.50	0.7	---	---	---	---	---	---	---	---	PACE
A-1	03/07/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
A-1	04/15/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
A-1	05/12/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	0.5	---	---	---	---	---	---	---	---	PACE
A-1	06/16/94	ND<50	---	0.7	0.5	ND<0.50	0.6	---	---	---	---	---	---	---	---	PACE
A-1	07/14/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
A-1	08/23/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
A-1	09/19/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
A-1	10/17/94	ND<100	---	ND<0.5	ND<1.0	ND<1.0	ND<2.0	---	---	---	---	---	---	---	---	GTEL
A-1	11/15/94	ND<10	---	ND<0.3	ND<0.3	ND<0.3	ND<0.5	---	---	---	---	---	---	---	---	GTEL
A-1	12/14/94	ND<10	---	ND<0.3	ND<0.3	ND<0.3	ND<0.5	---	---	---	---	---	---	---	---	GTEL
A-1	01/19/95	ND<50	---	ND<0.5	ND<0.5	0.6	2	---	---	---	---	---	---	---	---	ATI
A-1	02/06/95	ND<50	---	2.9	1.1	ND<0.25	2.6	---	---	---	---	---	---	---	---	ATI
A-1	02/22/95	ND<50	---	1.8	0.96	ND<0.50	2.1	---	---	---	---	---	---	---	---	ATI
A-1	03/14/95	ND<50	---	0.77	ND<0.50	ND<0.50	1.1	---	---	---	---	---	---	---	---	ATI
A-1	04/18/95	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
A-1	05/16/95	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
A-1	06/19/95	ND<50	---	0.59	0.52	ND<0.50	1.0	---	---	---	---	---	---	---	---	ATI
QC-1	06/19/95	ND<50	---	0.62	ND<0.50	ND<0.50	1.0	---	---	---	---	---	---	---	---	ATI
STA11109-E	02/15/94	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	59	0.019	ND<0.01	0.04	ND<0.01	ND<0.01	0.05	PACE
E-1	02/18/94	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	ND<5.0	---	---	---	---	---	---	PACE
E-1	02/25/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
E-1	03/07/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
E-1	04/15/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
E-1	05/12/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
E-1	06/16/94	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
E-1	07/14/94	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
E-1	08/23/94	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
E-1	09/19/94	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	---	---	---	---	---	PACE
E-1	10/17/94	ND<100	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<2.0	---	---	---	---	---	---	---	---	GTEL
E-1	11/15/94	ND<10	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	---	---	---	---	---	---	---	---	GTEL
E-1	12/14/94	ND<10	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.5	---	---	---	---	---	---	---	---	GTEL
E-1	01/19/95	ND<50	5700	3	0.8	ND<0.5	1	---	---	---	---	---	---	---	---	ATI
E-1	02/06/95	ND<50	ND<500	ND<0.25	ND<0.25	ND<0.25	ND<0.50	---	---	---	---	---	---	---	---	ATI
E-1	02/22/95	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
QC-1	02/22/95	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
E-1	03/14/95	ND<50	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
E-1	04/18/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
QC-1	04/18/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
E-1	05/16/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
QC-1	05/16/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI
E-1	06/19/95	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	---	---	ATI

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline	ND	Not detected above reported detection limit
TPH-D	Total petroleum hydrocarbons as diesel	---	Not analyzed/available
B	Benzene	I-1	Influent sampling port
T	Toluene	A-1	Intermediate sampling port
E	Ethylbenzene	E-1	Effluent sampling port
X	Total xylenes	QC-1	Field blank
MEK	Methyl ethyl ketone	PACE	Pace, Inc.
ug/l	Micrograms per liter	GTEL	GTEL Environmental Laboratories, Inc.
mg/l	Milligrams per liter	ATI	Analytical Technologies, Inc.



LEGEND

I = INFLUENT
A = INTERMEDIATE
E = EFFLUENT

SAMPLE PORT

FIGURE 1

ACTIVATED CARBON TREATMENT SYSTEM SAMPLING LOCATIONS

BP OIL SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10–005

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10005f--.DWG 1-20-95 RKW 1=1

ATTACHMENT A

LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS

Analytical**Technologies,** Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 504213

April 28, 1995

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

Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA
Project # : G314386/10-005-03-001

Attention: PETE BEAVER

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

Date Received	Quantity	Matrix
April 20, 1995	7	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.

GARY STEWART
VOLATILES SUPERVISOR

ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

Analytical Technologies, Inc.

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

Report Date: April 28, 1995
ATI I.D. : 504213

ATI #	Client Description	Matrix	Date Collected
1	STA #11109 INF	WATER	18-APR-95
2	STA #11109 A	WATER	18-APR-95
3	STA #11109 EFF	WATER	18-APR-95
4	STA #11109 FIELD BLANK	WATER	18-APR-95
5	STA #11109 INF	WATER	19-APR-95
6	STA #11109 EFF	WATER	19-APR-95
7	STA #11109 FIELD BLANK	WATER	19-APR-95

---TOTALS---

Matrix	# Samples
WATER	7

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.

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

ATI I.D.: 504213

Analysis	Technique/Description
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING ATI I.D. : 504213
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
5	STA #11109 INF	WATER	19-APR-95	24-APR-95	25-APR-95	10.00
6	STA #11109 EFF	WATER	19-APR-95	24-APR-95	25-APR-95	1.00
7	STA #11109 FIELD BLANK	WATER	19-APR-95	24-APR-95	25-APR-95	1.00

Parameter	Units	5	6	7
FUEL HYDROCARBONS	MG/L	9.5	<0.05	<0.05
HYDROCARBON RANGE		C7-C14	-	-
HYDROCARBONS QUANTITATED USING		GASOLINE	-	-
SURROGATES				
BIS(2-ETHYLHEXYL)PHTHALATE	%	87	100	96

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 35145
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

ATI I.D. : 504213
Date Extracted: 24-APR-95
Date Analyzed : 25-APR-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.05
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL)PHTHALATE	%	51

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 75108
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

ATI I.D. : 504213
Date Extracted: 24-APR-95
Date Analyzed : 25-APR-95
Sample Matrix : WATER
REF I.D. : 504211-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	46	1.0	51	N/A*V	49	N/A*V	4

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

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank Spike #: 56051
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

ATI I.D. : 504213
Date Extracted: 24-APR-95
Date Analyzed : 24-APR-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
FUEL HYDROCARBONS	MG/L	<0.05	0.76	1.0	76

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

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 504213
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA #11109 INF	WATER	18-APR-95	N/A	25-APR-95	50.00
2	STA #11109 A	WATER	18-APR-95	N/A	25-APR-95	1.00
3	STA #11109 EFF	WATER	18-APR-95	N/A	25-APR-95	1.00

Parameter	Units	1	2	3
BENZENE	UG/L	2400	<0.50	<0.50
TOLUENE	UG/L	650	<0.50	<0.50
ETHYLBENZENE	UG/L	60	<0.50	<0.50
XYLENES (TOTAL)	UG/L	1500	<1.0	<1.0
FUEL HYDROCARBONS	UG/L	14000	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	113	97	97

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 504213
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA #11109 FIELD BLANK	WATER	18-APR-95	N/A	25-APR-95	1.00

Parameter	Units	4
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	94

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 35144
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

ATI I.D. : 504213
Date Extracted: N/A
Date Analyzed : 25-APR-95
Dil. Factor : 1.00

Parameters	Units	Results
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	99

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 75175
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

ATI I.D. : 504213
Date Extracted: N/A
Date Analyzed : 27-APR-95
Sample Matrix : WATER
REF I.D. : 504211-03

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	5.3	106	5.5	110	4
TOLUENE	UG/L	<0.50	5.0	5.4	108	5.5	110	2

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

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 56046
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD., OAKLAND, CA

ATI I.D. : 504213
Date Extracted: N/A
Date Analyzed : 25-APR-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.3	5.0	106
TOLUENE	UG/L	<0.50	5.4	5.0	108

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

ANALYTICAL TECHNOLOGIES, INC.
SAN DIEGO
FLAGS

ORGANICS

FLAG	MESSAGE DESCRIPTION
A	A TIC IS A SUSPECTED ALDOL-CONDENSATION PRODUCT
B	ANALYTE FOUND IN THE ASSOCIATED REAGENT BLANK
C	PESTICIDE, WHERE THE IDENTIFICATION WAS CONFIRMED BY GC/MS
CO	THESE COMPOUNDS CO-ELUTE AND ARE QUANTITATED AS ONE PEAK
D	COMPOUND IDENTIFIED IN AN ANALYSIS AT SECONDARY DILUTION
E	ANALYTE AMOUNT EXCEEDS THE CALIBRATION RANGE
J	ESTIMATED VALUE
H	QUANTIFIED AS DIESEL BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF DIESEL
K	QUANTIFIED AS KEROSENE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF KEROSENE
L	QUANTIFIED AS GASOLINE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF GASOLINE
N	PRESUMPTIVE EVIDENCE OF A COMPOUND
P	PESTICIDE/AROCLOR TARGET ANALYTE, WHERE THERE IS GREATER THAN 25% DIFFERENCE FOR DETECTED CONCENTRATION BETWEEN 2 GC COLUMNS
TR	COMPOUND DETECTED AT AN UNQUANTIFIABLE TRACE LEVEL
U	COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
X	SEE CASE NARRATIVE
Y	SEE CASE NARRATIVE
Z	SEE CASE NARRATIVE
*	OUTSIDE OF QUALITY CONTROL LIMITS
*D	COMPOUND ANALYZED FROM A SECONDARY ANALYSIS
*F	RESULT OUTSIDE OF ATI'S QUALITY CONTROL LIMITS
*G	RESULT OUTSIDE QUALITY CONTROL LIMITS. INSUFFICIENT SAMPLE FOR RE-EXTRACTION/ANALYSIS
*H	RESULT OUTSIDE OF LIMITS DUE TO SAMPLE MATRIX INTERFERENCE
*I	BECAUSE OF NECESSARY SAMPLE DILUTION, VALUE WAS OUTSIDE QC LIMITS
*K	DUE TO THE NECESSARY DILUTION OF THE SAMPLE, RESULT WAS NOT ATTAINABLE
*L	ANALYTE IS A SUSPECTED LAB CONTAMINANT
*P	A STANDARD WAS USED TO QUANTITATE THIS VALUE
*R	DATA IS NOT USABLE
*T	SURROGATE RECOVERY IS OUTSIDE QC CONTROL LIMITS. NO CORRECTIVE ACTION INDICATED BY METHOD
*V	SAMPLE RESULT IS >4X SPIKED CONCENTRATION, THEREFORE SPIKE IS NOT DETECTABLE
*Y	RESULT NOT ATTAINABLE DUE TO SAMPLE MATRIX INTERFERENCE
@A	RESULTS OUT OF LIMITS DUE TO SAMPLE NON-HOMOGENEITY
@C	*VARIABLE MESSAGE*
@D	RESULT COULD NOT BE CONFIRMED DUE TO MATRIX INTERFERENCE ON THE CONFIRMATION COLUMN
@E	RESULT MAY BE FALSELY ELEVATED DUE TO SAMPLE MATRIX INTERFERENCE
@F	RESULT OUTSIDE OF CONTRACT SPECIFIED QUALITY CONTROL LIMITS
@G	RESULT OUTSIDE OF CONTRACT SPECIFIED ADVISORY LIMITS
@H	DETECTION LIMIT ELEVATED DUE TO MATRIX INTERFERENCE
@M	RESULT NOT CONFIRMED BY U.V. DUE TO SAMPLE MATRIX INTERFERENCE
@N	RESULT NOT CONFIRMED BY FLUORESCENCE DUE TO SAMPLE MATRIX INTERFERENCE
@P	RESULT QUANTITATED USING FLUORESCENCE ONLY DUE TO THE LOW CONCENTRATION
@Q	DETECTION LIMIT ELEVATED DUE TO LIMITED SAMPLE FOR ANALYSIS
@T	RESULT DUE TO TCLP EXTRACTION MATRIX INTERFERENCE. NO QC LIMITS HAVE BEEN ESTABLISHED
@U	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE COMMON FUEL HYDROCARBON FINGERPRINTS
@Z	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE A FUEL HYDROCARBON

ACCESSION #: 504213 INITIALS: MK

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	NO (circled)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD" on Item 11 below	1	
3	Are custody seals required for this project ?	YES	N/A (circled)
	a) are Custody Seals present on Cooler(s) ?	YES	NO (circled)
	If yes, are seals intact ? N/A	YES	NO
	b) are Custody Seals present on the sample ?	YES	NO (circled)
	If yes, are seals intact ? N/A	YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	YES (circled)	NO
5	Is the COC* complete per cooler ? Relinquished: yes(circled)/no Requested analysis: yes(circled)/no	YES (circled)	NO
6	Is the COC* in agreement with the samples received? # Samples: yes(circled)/no Sample ID's: yes(circled)/no Date sampled: yes(circled)/no Matrix: yes(circled)/no # containers: yes(circled)/no	YES (circled)	NO
7	Are the samples preserved correctly?	YES (circled)	NO
8	Is there enough sample for all the requested analyses?	YES (circled)	NO
9	Are all samples within holding times for the requested analyses?	YES (circled)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.0	°C
	Is ice present in cooler?	YES (circled)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	YES (circled)	NO
12	Are samples requiring no headspace, headspace free? N/A	YES	NO (circled)
13	Are VOA 1st stickers required?	YES	NO (circled)
14	Are there special comments on the Chain of Custody which require client contact?	YES	N/A (circled)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items: [illegible] 2-[illegible] bottles for 8015 had 5-10% headspace. Will use other bottle.

Was client contacted? yes / no

If yes, Date: ________ Name of Person contacted:

Describe actions taken or client instructions: ________

*Or other representative documents, letters, and/or shipping memos

ATIFRM902(03/95)

BP 504213

CHAIN OF CUSTODY

No. 055452 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
ALISTO ENGINEERING GROUP	1777 OAKLAND Blvd #200	WALNUT CREEK,	CA	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 FOOTHILL BLVD OAKLAND, CA	10-005-03-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
PETE BEAVER	510 295-1650	510 295-1823	Q314386

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
SCOTT HOOTON	RENTON, WA		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
GARY STEWART	SAN DIEGO, CA		

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
JOHN BICKING	John Bicking	4/19/95	FED EX

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☑ Standard 2 Weeks

AIRBILL NUMBER

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	PRESERVATIVE HCL TPH-G BTEX	COMMENTS
STA# 11109 INF	4/18/95	1405	GW	3	VOA	01	✓	
STA# 11109 A		1408		3		02	✓	
STA# 11109 EFF		1411		3		03	✓	
STA# 11109 FIELD BLANK		1415		3		04	✓	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John Bicking	4/18/95	2210			
			Michael Hollom	4/20/95	1030

ADDITIONAL COMMENTS

Received: good condition, 2°C. MH 4-20-95

CLV 16722

Distribution: White - Original (with Data) Yellow - BP Pink - Lab Blue - Consultant Field Staff

Analytical Technologies, Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 505184

May 26, 1995

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

Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA
Project # : G314386/10-005-03-001

Attention: PETE BEAVER

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

Date Received	Quantity	Matrix
May 18, 1995	4	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.

GARY STEWART
VOLATILES SUPERVISOR

ALAN J KLEINSCHMIDT
for LABORATORY MANAGER

Analytical Technologies, Inc.

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Report Date: May 26, 1995
ATI I.D. : 505184

ATI #	Client Description	Matrix	Date Collected
1	STA#11109 INF	WATER	16-MAY-95
2	STA#11109 A	WATER	16-MAY-95
3	STA#11109 EFF	WATER	16-MAY-95
4	STA#11109 FIELD BLANK	WATER	16-MAY-95

---TOTALS---

Matrix	# Samples
WATER	4

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 Technologies, Inc.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D.: 505184

Analysis	Technique/Description
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 505184

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF	WATER	16-MAY-95	25-MAY-95	26-MAY-95	10.00
3	STA#11109 EFF	WATER	16-MAY-95	25-MAY-95	26-MAY-95	1.00
4	STA#11109 FIELD BLANK	WATER	16-MAY-95	25-MAY-95	26-MAY-95	1.00

Parameter	Units	1	3	4
FUEL HYDROCARBONS	MG/L	12	<0.05	<0.05
HYDROCARBON RANGE		C7-C14	-	-
HYDROCARBONS QUANTITATED USING		GASOLINE	-	-
SURROGATES				
BIS(2-ETHYLHEXYL)PHTHALATE	%	96	74	85

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 35544
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 505184
Date Extracted: 25-MAY-95
Date Analyzed : 26-MAY-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.05
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL)PHTHALATE	%	91

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 75999
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 505184
Date Extracted: 25-MAY-95
Date Analyzed : 26-MAY-95
Sample Matrix : WATER
REF I.D. : REAGENT WATER

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	<0.050	1.0	0.96	96	0.92	92	4

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

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 505184
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA#11109 INF	WATER	16-MAY-95	N/A	24-MAY-95	50.00
2	STA#11109 A	WATER	16-MAY-95	N/A	24-MAY-95	1.00
3	STA#11109 EFF	WATER	16-MAY-95	N/A	24-MAY-95	1.00

Parameter	Units	1	2	3
BENZENE	UG/L	2800	<0.50	<0.50
TOLUENE	UG/L	830	<0.50	<0.50
ETHYLBENZENE	UG/L	100	<0.50	<0.50
XYLENES (TOTAL)	UG/L	1400	<1.0	<1.0
FUEL HYDROCARBONS	UG/L	15000	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	100	95	96

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 505184
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA#11109 FIELD BLANK	WATER	16-MAY-95	N/A	24-MAY-95	1.00

Parameter	Units	4
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	94

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 35522
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 505184
Date Extracted: N/A
Date Analyzed : 24-MAY-95
Dil. Factor : 1.00

Parameters	Units	Results
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	96

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 75902
Client : ALISTO ENGINEERING

Project # : G314386/10-005-03-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 505184
Date Extracted: N/A
Date Analyzed : 24-MAY-95
Sample Matrix : WATER
REF I.D. : 505184-03

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	5.1	102	5.0	100	2
TOLUENE	UG/L	<0.50	5.0	5.1	102	5.0	100	2

% 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

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 56738
Client : ALISTO ENGINEERING
Project # : G314386/10-005-03-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 505184
Date Extracted: N/A
Date Analyzed : 24-MAY-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.2	5.0	104
TOLUENE	UG/L	<0.50	5.1	5.0	102

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

ACCESSION #: 505184 INITIALS: C.S

ATI-San Diego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a)and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD"on Item 11 below	1	
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ? (N/A)	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ? (N/A)	YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? If not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: yes/no Requested analysis: yes/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: yes/no Sample ID's: yes/no Date sampled: yes/no Matrix: yes/no # containers: yes/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.0 °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	(YES)	NO
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA list stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items: _____

Was client contacted? yes / no

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos

CHAIN OF CUSTODY

No. 055457 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
ALISTO ENGINEERING GROUP	1575 TREAT Blvd ste 201	Walnut Creek	Ca	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 Foothill Blvd OAKLAND, Ca	10-005 03-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
PETE BEAVER	510 295-1650	510-295-1823	G314386

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
SCOTT HOOTON	Renton, WA		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
GARY STEWART	San Diego, Ca	619-458-9141	619-558-2389

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
JOHN BICKING	John K. Bicking		

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

AIRBILL NUMBER:

SAMPLE DESCRIPTION	COLLECTION DATE 5/16/95 COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	ANALYSIS REQUIRED: HCl TPH-G BTEX	HCl TPH-D	COMMENTS
STA# 11109 INF	1130	GW	3	VOA	01	✓	✓	
	1125		2	H	↓	✓	✓	
STA# 11109 A	1115		3	VOA	02	✓		
STA# 11109 EFF	1105		3	VOA	03	✓		
	1102		2	LT	↓	✓	✓	
STA# 11109 FIELD BLANK	1100		3	VOA	04	✓		
	1058		2	LT	↓		✓	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John K. Bicking	5/16/95				
			Ce. Toot	5/18/95	10:10

ADDITIONAL COMMENTS: 505184

2.0°C

CLV-16722

Distribution: White - Original (with Data)
Yellow - BP
Pink - Lab
Blue - Consultant Field Staff

Analytical Technologies, Inc. Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 506269

July 05, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA
Project # : G314386/10-005-04-001

Attention: PETE BEAVER

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

Date Received	Quantity	Matrix
June 22, 1995	4	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.

GARY STEWART
VOLATILES SUPERVISOR

ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

Analytical Technologies, Inc.

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Report Date: July 05, 1995
ATI I.D. : 506269

ATI #	Client Description	Matrix	Date Collected
1	STA# 11109 INF	WATER	19-JUN-95
2	STA# 11109 A	WATER	19-JUN-95
3	STA# 11109 EFF	WATER	19-JUN-95
4	STA# 11109 FIELD BLANK	WATER	19-JUN-95

---TOTALS---

Matrix	# Samples
WATER	4

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.

Client : ALISTO ENGINEERING
Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D.: 506269

Analysis	Technique/Description
MOD EPA 8015-CDOHS (FUEL HYDROCARBONS: C7-C24)	GC/FLAME IONIZATION DETECTOR
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
Blank I.D. : 35861
Client : ALISTO ENGINEERING
Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 506269
Date Extracted: 26-JUN-95
Date Analyzed : 26-JUN-95
Dil. Factor : 1.00

Parameters	Units	Results
FUEL HYDROCARBONS	MG/L	<0.050
HYDROCARBON RANGE		-
HYDROCARBONS QUANTITATED USING		-
SURROGATES		
BIS(2-ETHYLHEXYL) PHTHALATE	%	96

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS)
MSMSD # : 76723
Client : ALISTO ENGINEERING

Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 506269
Date Extracted: 26-JUN-95
Date Analyzed : 27-JUN-95
Sample Matrix : WATER
REF I.D. : REAGENT WATER

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
FUEL HYDROCARBONS	MG/L	<0.050	1.0	0.97	97	0.95	95	2

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

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 506269
Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	STA# 11109 INF	WATER	19-JUN-95	N/A	01-JUL-95	50.00
2	STA# 11109 A	WATER	19-JUN-95	N/A	02-JUL-95	1.00
3	STA# 11109 EFF	WATER	19-JUN-95	N/A	02-JUL-95	1.00

Parameter	Units	1	2	3
BENZENE	UG/L	2300	0.59	<0.50
TOLUENE	UG/L	700	0.52	<0.50
ETHYLBENZENE	UG/L	98	<0.50	<0.50
XYLENES (TOTAL)	UG/L	1000	1.0	<1.0
FUEL HYDROCARBONS	UG/L	12000	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	107	109	106

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 506269
Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	STA# 11109 FIELD BLANK	WATER	19-JUN-95	N/A	02-JUL-95	1.00

Parameter	Units	4
BENZENE	UG/L	0.62
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	110

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 35916
Client : ALISTO ENGINEERING
Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 506269
Date Extracted: N/A
Date Analyzed : 01-JUL-95
Dil. Factor : 1.00

Parameters	Units	Results
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	97

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 35918
Client : ALISTO ENGINEERING
Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 506269
Date Extracted: N/A
Date Analyzed : 02-JUL-95
Dil. Factor : 1.00

Parameters	Units	Results
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	97

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 76835
Client : ALISTO ENGINEERING

Project # : G314386/10-005-04-001
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 506269
Date Extracted: N/A
Date Analyzed : 01-JUL-95
Sample Matrix : WATER
REF I.D. : 506268-03

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	4.9	98	4.9	98	0
TOLUENE	UG/L	<0.50	5.0	4.9	98	4.9	98	0

% 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

Test : MOD EPA 8015-CDOHS (FUEL HYDRCCARBONS/BTXE)
Blank Spike #: 57427
Client : ALISTO ENGINEERING
Project # : G314386/10-005-04-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 506269
Date Extracted: N/A
Date Analyzed : 01-JUL-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.4	5.0	88
TOLUENE	UG/L	<0.50	4.6	5.0	92

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

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 57430
Client : ALISTO ENGINEERING
Project # : G314386/10-005-04-001
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND, CA

ATI I.D. : 506269
Date Extracted: N/A
Date Analyzed : 02-JUL-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.4	5.0	88
TOLUENE	UG/L	<0.50	4.8	5.0	96

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

ACCESSION #: 506269 INITIALS: LJ

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD"on Item 11 below	2	
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	(YES)	NO
	If yes, are seals intact ?	(YES)	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: (yes)/no Matrix: (yes)/no # containers: (yes)/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	SEE MCD °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	(YES)	NO
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items: _____

Was client contacted? yes / no

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos

BP

ATI#506269

CHAIN OF CUSTODY

No. 061518

Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering Group	1575 Treat Blvd. Ste 201	Walnut Creek	CA	94596

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 Foothill Blvd. Oakland	10-005-04-001

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Pete Benner	510 295 1650	510 295 1823	C 314386

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Hooton	Renton WA		

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
Garry Steward	San Diego, CA		

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD	AIRBILL NUMBER
John Bailey	John K. Bailey		Bellaire	77418

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE 6/19/95 / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	TYPE (VOL.)	LAB SAMPLE #	HCL TPH-G BTEX		None TPH-D								COMMENTS
STA# 11109 INF	1530	GW	5	2 LT 3 VOA	01	✓		✓								
STA# 11109 A	1535	↓	3	VOA	02	✓										
STA# 11109 EFF	1540	↓	5	2 LT 3 VOA	03	✓		✓								
STA# 11109 Field Blank	1545	↓	3	VOA	04	✓										

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
John K. Bailey	6/20/95	1111			
			[illegible] (ATI)	6-22-95	08:30

ADDITIONAL COMMENTS

Cooler# B-89 = 3.0°
Cooler# 4H = 3.9°

CLV-16722

Distribution: White - Original (with Data) Yellow - BP Pink - Lab Blue - Consultant Field Staff