



Alameda County

NOV 07 2003

Environmental Health

RO 243
2000 Crow Canyon Place
Suite 400
San Ramon, CA 94583

Phone: (925) 277-2384
Fax: (925) 277-2361

Risk Management &
Remediation

November 4, 2003

**Re: Tosco (76) Service Station #0018
6201 Claremont Avenue
Oakland, California**

"I declare under penalty of perjury, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached proposal or report is true and correct"

A handwritten signature in cursive script that reads "David B. DeWitt".

David B. DeWitt
Site Manager
ConocoPhillips

R 0 243

Alameda County

NOV 0 7 2003

Environmental Health



GETTLER-RYAN INC.

TRANSMITTAL

October 20, 2003

G-R #180264

TO: Mr. David B. De Witt
ConocoPhillips
76 Broadway Avenue
Sacramento, California 95818

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Tosco (76) Service Station
#0018
6201 Claremont Avenue
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 17, 2003	Groundwater Monitoring and Sampling Report Third Quarter - Event of September 4, 2003

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by *November 3, 2003*, this report will be distributed to the following:

cc: Mr. Don Huang, Alameda County Health Care Service Division, 1131 Harbor Bay Pkwy., Ste. 250,
Alameda, CA 94502

Enclosure

trans/0018-dbd

Alameda County

NOV 07 2003

Environmental Health

October 17, 2003

G-R Job #180264



GETTLER-RYAN INC.

Mr. David B. De Witt
ConocoPhillips
76 Broadway Avenue
Sacramento, California 95818

RE: Third Quarter Event of September 4, 2003
Groundwater Monitoring & Sampling Report
Tosco (76) Service Station #0018
6201 Claremont Avenue
Oakland, California

Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. A Potentiometric Map is included as Figure 1.

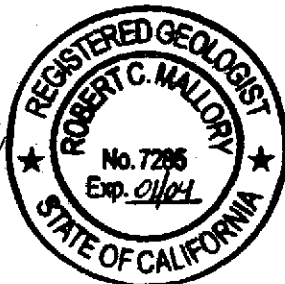
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Historical analytical results are presented in the table(s) listed below. A Concentration Map is included as Figure 2.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

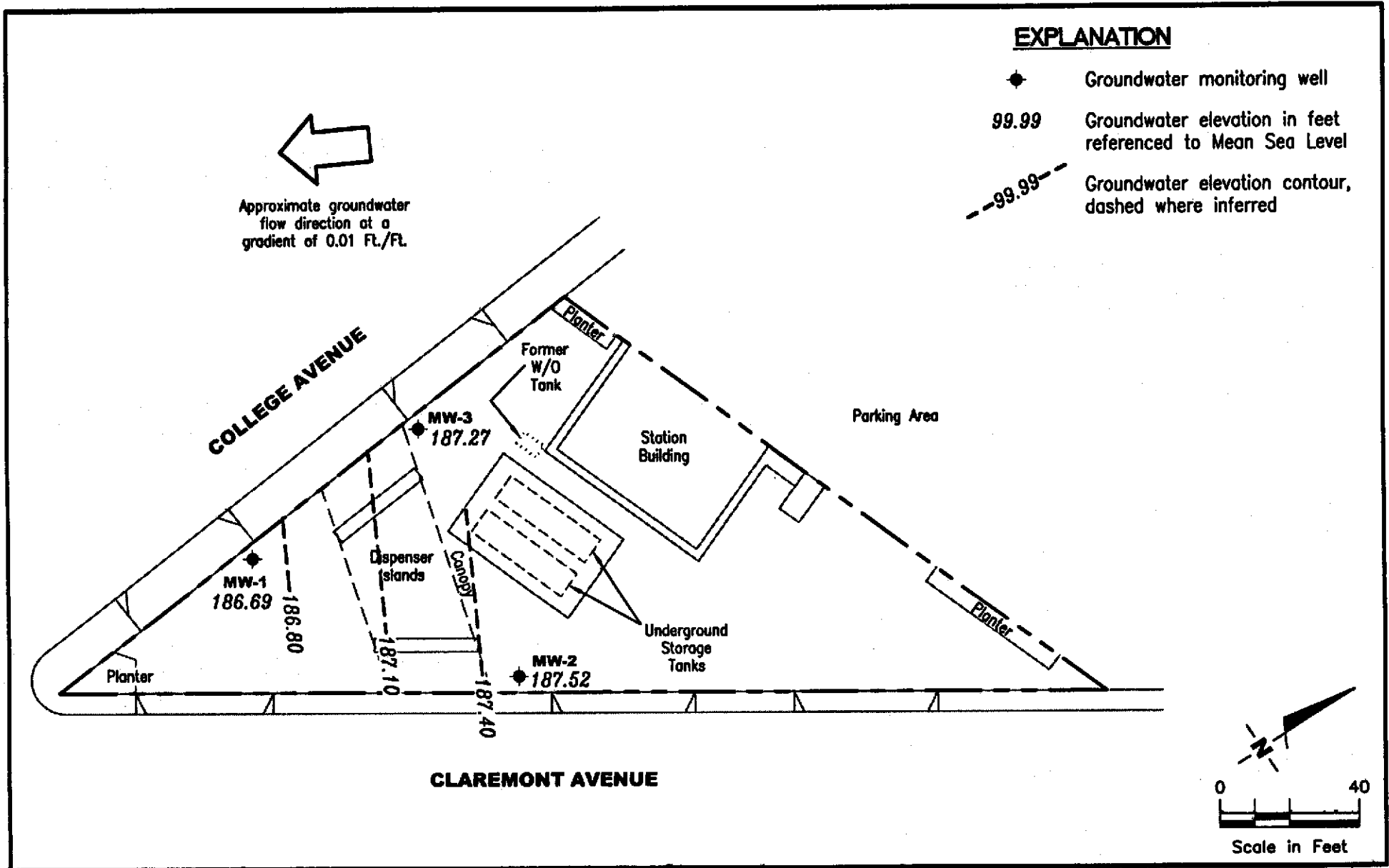
Deanna L. Harding
Project Coordinator

Robert C. Mallory
Registered Geologist No. 7285



- Figure 1: Potentiometric Map
- Figure 2: Concentration Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets

0018-qml



GETTLER - RYAN INC.

6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Tosco (76) Service Station #0018
6201 Claremont Avenue
Oakland, California

FIGURE

1

PROJECT NUMBER
180264

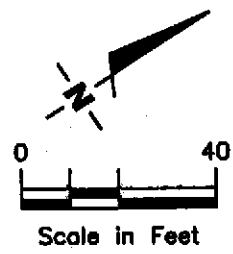
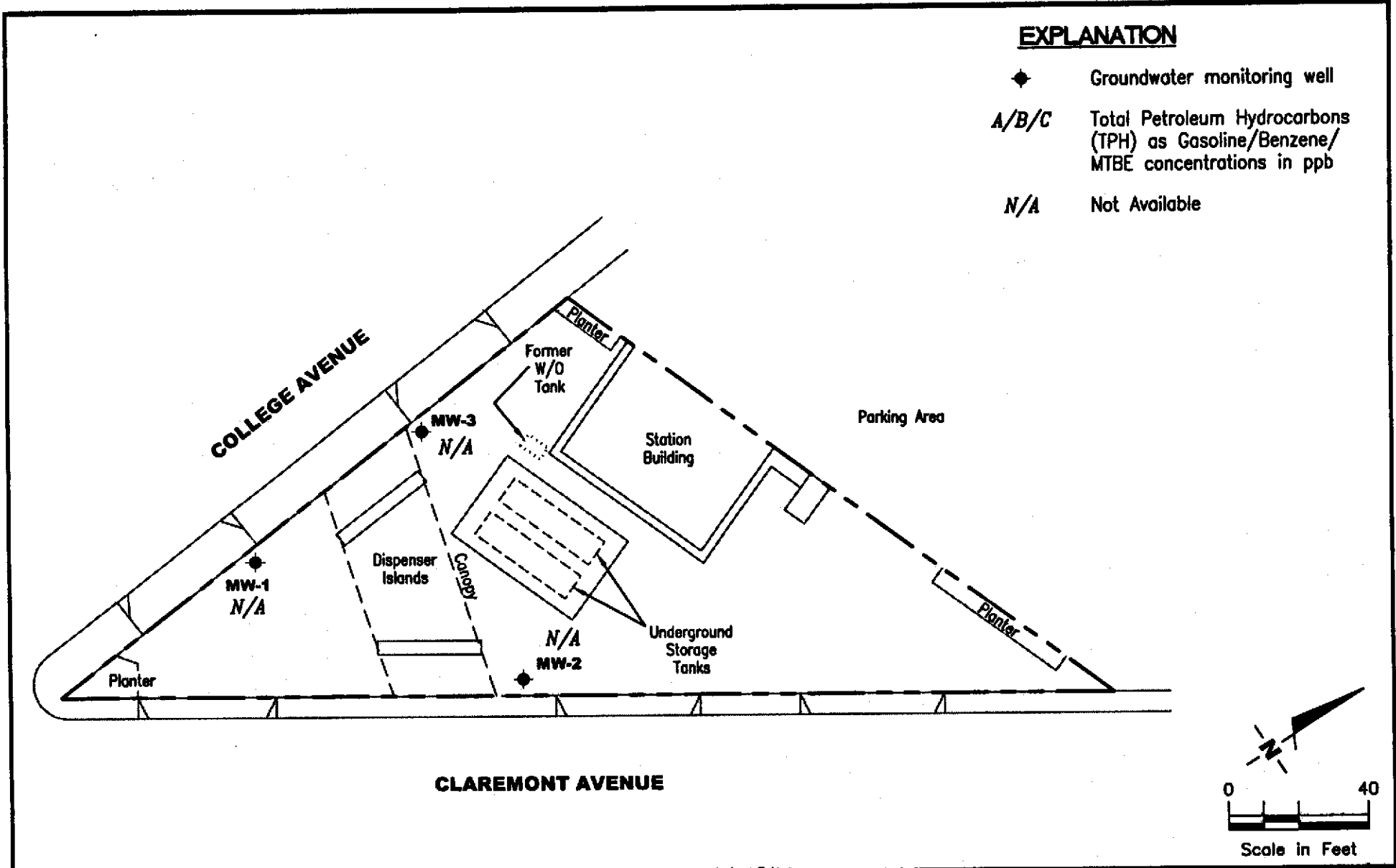
REVIEWED BY

DATE
September 4, 2003

REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well
- A/B/C Total Petroleum Hydrocarbons (TPH) as Gasoline/Benzene/MTBE concentrations in ppb
- N/A Not Available



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 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

CONCENTRATION MAP
 Tosco (76) Service Station #0018
 6201 Claremont Avenue
 Oakland, California

FIGURE
2

PROJECT NUMBER
 180264

REVIEWED BY

DATE
 September 4, 2003

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (76) Service Station #0018
6201 Claremont Avenue
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	S.L. (ft. bgs)	GWE (mst)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1										
208.15	08/24/00	18.55	10.0-30.0	189.60	120 ¹	0.67	ND	0.86	1.4	54/54 ²
	11/16/00	20.30		187.85	169 ³	ND	1.20	1.74	0.629	68.6/97.7 ²
	02/09/01	20.16		187.99	330 ³	1.3	ND	1.0	4.6	140/150 ²
	05/11/01	17.68		190.47	1,250 ³	ND ⁴	ND ⁴	ND ⁴	ND ⁴	145/122 ²
	08/10/01	20.38		187.77	580 ³	<0.50	<0.50	<0.50	<0.50	110/150 ²
	11/07/01	22.68		185.47	250 ³	<0.50	1.5	<0.50	<0.50	120/100 ²
	02/06/02	16.20		191.95	790	<2.5	12	8.8	<2.5	90/72 ²
	05/08/02	17.54		190.61	890 ³	<2.5	<2.5	<2.5	<2.5	78/81 ²
	08/09/02 ⁵	20.21		187.94	450 ⁶	<0.50	<0.50	<0.50	<1.0	100
	11/29/02 ⁵	22.33		185.82	110	<0.50	<0.50	<0.50	<1.0	72
	02/03/03 ⁵	16.41		191.74	540 ⁶	<0.50	<0.50	<0.50	<1.0	40
	05/05/03 ⁵	16.09		192.06	670 ⁶	<2.5	<2.5	<2.5	<5.0	57
	09/04/03 ⁸	21.46		186.69	--	--	--	--	--	--
MW-2										
210.27	08/24/00	19.69	10.0-30.0	190.58	ND	ND	ND	ND	ND	ND/ND ²
	11/16/00	21.61		188.66	ND	ND	ND	ND	ND	ND/ND ²
	02/09/01	21.52		188.75	ND	ND	ND	ND	ND	ND/ND ²
	05/11/01	18.76		191.51	ND	ND	ND	ND	ND	ND/ND ²
	08/10/01	21.65		188.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<2.0 ²
	11/07/01	24.25		186.02	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<1.0 ²
	02/06/02	18.22		192.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	18.63		191.64	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	08/09/02 ⁵	21.53		188.74	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 ⁵	23.73		186.54	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	02/03/03 ⁵	17.43		192.84	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	05/05/03 ⁵	17.15		193.12	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	09/04/03 ⁸	22.75		187.52	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (76) Service Station #0018
6201 Claremont Avenue
Oakland, California

WELL ID/ TOC* (fL)	DATE	DTW (ft.)	S.I. (ft. bgs)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3										
208.98	08/24/00	18.68	10.0-30.0	190.30	ND	ND	ND	ND	ND	4.7/2.3 ²
	11/16/00	20.56		188.42	ND	ND	ND	ND	ND	ND/ND ²
	02/09/01	20.45		188.53	ND	ND	ND	ND	ND	ND/ND ²
	05/11/01	17.75		191.23	ND	ND	ND	ND	ND	ND/ND ²
	08/10/01	20.70		188.28	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<2.0 ²
	11/07/01	23.02		185.96	<50	<0.50	<0.50	<0.50	<0.50	<5.0/1.5 ²
	02/06/02	17.19		191.79	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	17.59		191.39	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	08/09/02 ⁵	20.48		188.50	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 ⁵	22.64		186.34	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	02/03/03 ⁵	16.46		192.52	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	05/05/03 ⁵	16.16		192.82	<50	<0.50	<0.50	<0.50	<1.0	2.6
	09/04/03 ⁸	21.71		187.27	--	--	--	--	--	--
Trip Blank										
TB-LB	08/24/00	--	--	--	ND	ND	ND	ND	ND	ND
	11/16/00	--		--	ND	ND	ND	ND	ND	ND
	02/09/01	--		--	ND	ND	ND	ND	ND	ND
	05/11/01	--		--	ND	ND	ND	ND	ND	ND
	08/10/01	--		--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	11/07/01	--		--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/06/02	--		--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	05/08/02	--		--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	08/09/02 ⁵	--		--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	11/29/02 ⁵	--		--	<50	<0.50	0.88	<0.50	<1.0	<2.0
	02/03/03 ⁵	--		--	<50	<0.50	<0.50	<0.50	<1.0	<2.0
	05/05/03 ⁵	--		--	<50	<0.50	0.56 ⁷	<0.50	<1.0	<2.0
	09/04/03 ⁸	--		--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (76) Service Station #0018
6201 Claremont Avenue
Oakland, California

EXPLANATIONS:

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

S.I. = Screen Interval

(ft. bgs) = Feet Below Ground Surface

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

ND = Not Detected

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

* TOC elevations have been surveyed relative to msl; per the city of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elevation = 179.075 feet, msl).

¹ Laboratory report indicates gasoline C6-C12.

² MTBE by EPA Method 8260.

³ Laboratory report indicates unidentified hydrocarbons C6-C12.

⁴ Detection limit raised. Refer to analytical reports.

⁵ TPH-G, BTEX and MTBE by EPA Method 8260.

⁶ Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

⁷ Laboratory report indicates the lab detected Toluene in the trip blank slightly above the reporting limit. Because this compound was not detected in other samples, it is unlikely that this contamination was not introduced during transportation of the samples.

⁸ Due to Laboratory oversight analyses were not performed; samples were beyond hold time.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (76) Service Station #0018
 6201 Claremont Avenue
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	08/24/00	ND	ND	54	ND	ND	ND	--	--
	11/16/00	ND	ND	97.7	ND	ND	ND	--	--
	02/09/01	ND	ND	150	ND	ND	ND	ND	ND
	05/11/01	ND	ND	122	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	150	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	100	<1.0	<1.0	<1.0	<1.0	<1.0
	02/06/02	<500	<100	72	<2.0	<2.0	<2.0	<2.0	<2.0
	05/08/02	<500	<100	81	<2.0	<2.0	<2.0	<2.0	<2.0
	08/09/02	<500	<100	100	<2.0	<2.0	<2.0	<2.0	<2.0
	11/29/02	<500	<100	72	<2.0	<2.0	<2.0	<2.0	<2.0
	02/03/03	<500	<100	40	<2.0	<2.0	<2.0	<2.0	<2.0
	05/05/03	<2,500	<500	57	<10	<10	<10	<10	<10
	09/04/03 ¹	--	--	--	--	--	--	--	--
MW-2	08/24/00	ND	ND	ND	ND	ND	ND	--	--
	11/16/00	ND	ND	ND	ND	ND	ND	--	--
	02/09/01	ND	ND	ND	ND	ND	ND	ND	ND
	05/11/01	ND	ND	ND	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	11/07/01	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/09/02	--	--	<2.0	--	--	--	--	--
	11/29/02	--	--	<2.0	--	--	--	--	--
	02/03/03	--	--	<2.0	--	--	--	--	--
	05/05/03	--	--	<2.0	--	--	--	--	--
	09/04/03 ¹	--	--	--	--	--	--	--	--
MW-3	08/24/00	ND	ND	2.3	ND	ND	ND	--	--
	11/16/00	ND	ND	ND	ND	ND	ND	--	--
	02/09/01	ND	ND	ND	ND	ND	ND	ND	ND
	05/11/01	ND	ND	ND	ND	ND	ND	ND	ND
	08/10/01	<1,000	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (76) Service Station #0018
 6201 Claremont Avenue
 Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-3	11/07/01	<500	<20	1.5	<1.0	<1.0	<1.0	<1.0	<1.0
(cont)	08/09/02	--	--	<2.0	--	--	--	--	--
	11/29/02	--	--	<2.0	--	--	--	--	--
	02/03/03	--	--	<2.0	--	--	--	--	--
	05/05/03	--	--	2.6	--	--	--	--	--
	09/04/03 ¹	--	--	--	--	--	--	--	--

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Tosco (76) Service Station #0018
6201 Claremont Avenue
Oakland, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(ppb) = Parts per billion
ND = Not Detected
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

¹ Due to Laboratory oversight analyses were not performed; samples were beyond hold time.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set and is labeled as QA. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by ConocoPhillips Company, the purge water and decontamination water generated during sampling activities is transported to ConocoPhillips - San Francisco Refinery, located in Rodeo, California.



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0018 Job Number: 180264
 Site Address: 6201 Claremont Blvd. Event Date: 9-4-03 (inclusive)
 City: Oakland, CA Sampler: Joc

Well ID: MW-1 Date Monitored: 9-4-03 Well Condition: OK
 Well Diameter: 2 in.
 Total Depth: 30.00 ft.
 Depth to Water: 21.46 ft.
8.54 x VF 0.17 = 1.45 x3 (case volume) = Estimated Purge Volume: 4.5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 1000 Weather Conditions: Foggy
 Sample Time/Date: 1030 19-4-03 Water Color: clear Odor: yes
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1008</u>	<u>1.5</u>	<u>6.68</u>	<u>2.42</u>	<u>64.2</u>	_____	_____
<u>1013</u>	<u>3</u>	<u>6.72</u>	<u>2.50</u>	<u>64.0</u>	_____	_____
<u>1018</u>	<u>4.5</u>	<u>6.74</u>	<u>2.57</u>	<u>63.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3 x vob vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260) 8 Oxy's(8260)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0018 Job Number: 180264
 Site Address: 6201 Claremont Blvd. Event Date: 9-9-03 (inclusive)
 City: Oakland, CA Sampler: 50c

Well ID: MW-2 Date Monitored: 9-4-03 Well Condition: o.k

Well Diameter: 2 in.

Total Depth: 29.95 ft.

Depth to Water: 22.75 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

7.20 x VF 0.17 = 1.22 x3 (case volume) = Estimated Purge Volume: 4 gal.

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 0925 Weather Conditions: Foggy
 Sample Time/Date: 0952 9-4-03 Water Color: clear Odor: none
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0936</u>	<u>1</u>	<u>7.18</u>	<u>9.66</u>	<u>62.8</u>	_____	_____
<u>0940</u>	<u>2.5</u>	<u>7.10</u>	<u>10.44</u>	<u>63.0</u>	_____	_____
<u>0945</u>	<u>4</u>	<u>7.16</u>	<u>10.51</u>	<u>63.0</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x vob vial	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260Y</u> <u>+ Ethanol</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ConocoPhillips #0018 Job Number: 180264
 Site Address: 6201 Claremont Blvd. Event Date: 9-4-03 (inclusive)
 City: Oakland, CA Sampler: JOC

Well ID: MW-3 Date Monitored: 9-4-03 Well Condition: o.k.
 Well Diameter: 2 in.
 Total Depth: 28.95 ft.
 Depth to Water: 21.71 ft.
7.24 x VF 0.17 = 1.23 x3 (case volume) = Estimated Purge Volume: 4 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Discrete Bailer _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Bailed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: 0 ft
 Visual Confirmation/Description:
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Product Transferred to: _____

Start Time (purge): 0830 Weather Conditions: Foggy
 Sample Time/Date: 0910 19-4-03 Water Color: Clear Odor: None
 Purging Flow Rate: 0.5 gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>0845</u>	<u>1.5</u>	<u>7.59</u>	<u>8.14</u>	<u>64.0</u>		
<u>0849</u>	<u>3</u>	<u>7.62</u>	<u>8.19</u>	<u>64.2</u>		
<u>0855</u>	<u>4</u>	<u>7.68</u>	<u>8.25</u>	<u>63.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x voc vial</u>	<u>YES</u>	<u>HCL</u>	<u>STL Pleasanton</u>	<u>TPH-G/BTEX/MTBE(8260Y & Oxy's(8200) + Ethanol</u>

COMMENTS: _____
 Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

