ATTACHMENT D

SUMMARY OF GROUND WATER MONITORING DATA

(2004)

GLOBAL PETROLEUM CORPORATION

NPDES PERMIT NO. MA0003425

Global Petroleum Corporation
140 Lee Burbank Highway, Revere, Massachusetts
NPDES Exclusion 98-086
Groundwater Treatment System
Influent/Effluent Testing Results

Date		Jan-04				Feb-03		Mar-03	
Parameter	NPDES Limit	Influent		Effluent		Influent	Effluent	Influent	Effluent
TPH	5 ppm	Note 1	mg/l	Note 1	mg/l	2.1 mg/l	ND mg/l	2.3 mg/l	ND mg/l
Methyl Butyl Tert Ether	70 ppb	Note 1	ug/l	Note 1	ug/l	46,400 ug/l	1.7 ug/l	77,300 ug/l	ND ug/l
Benzene	5 ppb	Note 1	ug/l	Note 1	ug/l	2,300 ug/l	ND ug/l	2,130 ug/l	ND ug/l
Toluene	*	Note 1	ug/l	Note 1	ug/l	8,990 ug/l	ND ug/l	3,660 ug/l	ND ug/l
Ethylbenzene	*	Note 1	ug/l	Note 1	ug/l	868 ug/l	ND ug/l	474 ug/l	ND ug/l
Xylenes	*	Note 1	ug/l	Note 1	ug/l	8,970 ug/l	ND ug/l	4,690 ug/l	ND ug/l
Total BTEX	100 ppb	Note 1	ug/l	Note 1	ug/l	21,128 ug/l	ND ug/l	10,954 ug/l	ND ug/l

ND - Not detected
Note 1 - System down. No sample collected.

New England ACCUTEST Laboratories

03/17/04

Technical Report for

Camp Dresser & McKee

Global Petroleum, Revere MA

Accutest Job Number: M37937

Report to:

Camp, Dresser & McKee

WinklerJH@cdm.com

ATTN: Jim Winkler

Total number of pages in report: 15

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250203) RI (00071) ME (MA136) FL (E87579) NY (11791) NJ (MA926) IL (000589) NAVY USACE

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Sample Summary

Camp Dresser & McKee

Global Petroleum, Revere MA

Job No: M37937

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
M37937-1	02/27/04	10:00 TAN	03/01/04	AQ	Influent	INF-22704
M37937-2	02/27/04	10:10 TAN	03/01/04	AQ	Ground Water	CIN-22704
M37937-3	02/27/04	10:15 TAN	03/01/04	AQ	Ground Water	MID-1-22704
M37937-4	02/27/04	10:25 TAN	03/01/04	AQ	Ground Water	MID-2-22704
M37937-5	02/27/04	10:30 TAN	03/01/04	AQ	Effluent	EFF-22704

Accutest Laboratories

Report of Analysis

Client Sample ID:	INF-22704		
Lab Sample ID:	M37937-1	Date Sampled:	02/27/04
Matrix:	AQ - Influent	Date Received:	03/01/04
Method:	EPA 602	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN25698.D	100	03/10/04	AP	n/a	n/a	GMN968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	2300	100	ug/l	
108-88-3	Toluene	8990	100	ug/l	
100-41-4	Ethylbenzene	868	100	ug/l	
1330-20-7	Xylenes (total)	8970	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	46400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	80%		53-157%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST Laboratories

Accutest Laboratories

Report of Analysis

Client Sample ID:	INF-22704		
Lab Sample ID:	M37937-1	Date Sampled:	02/27/04
Matrix:	AQ - Influent	Date Received:	03/01/04
		Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	2.1	0.61	mg/l	1	03/02/04	BF	EPA 418.1

RL = Reporting Limit

ACCUTEST Laboratories

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Report of Analysis

Client Sample ID:	CIN-22704		
Lab Sample ID:	M37937-2	Date Sampled:	02/27/04
Matrix:	AQ - Ground Water	Date Received:	03/01/04
Method:	EPA 602	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN25716.D	1	03/10/04	AP	n/a	n/a	GMN971
Run #2	MN25730.D	10	03/11/04	AP	n/a	n/a	GMN972

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	3.6	1.0	ug/l	
108-88-3	Toluene	12.1	1.0	ug/l	
100-41-4	Ethylbenzene	2.7	1.0	ug/l	
1330-20-7	Xylenes (total)	17.1	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1710 [a]	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	83%	77%	53-157%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST Laboratories

Accutest Laboratories

Report of Analysis

Client Sample ID:	CIN-22704		
Lab Sample ID:	M37937-2	Date Sampled:	02/27/04
Matrix:	AQ - Ground Water	Date Received:	03/01/04
		Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/02/04	BF	EPA 418.1

RL = Reporting Limit

ACCUTEST Laboratories

Accutest Laboratories

Report of Analysis

Client Sample ID:	MID-1-22704		
Lab Sample ID:	M37937-3	Date Sampled:	02/27/04
Matrix:	AQ - Ground Water	Date Received:	03/01/04
Method:	EPA 602	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN25717.D	1	03/10/04	AP	n/a	n/a	GMN971
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.9	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	77%		53-157%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST Laboratories

Accutest Laboratories

Report of Analysis

Client Sample ID:	MID-1-22704		
Lab Sample ID:	M37937-3	Date Sampled:	02/27/04
Matrix:	AQ - Ground Water	Date Received:	03/01/04
		Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/02/04	BF	EPA 418.1

RL = Reporting Limit

ACCUTEST Laboratories

Accutest Laboratories

Report of Analysis

Client Sample ID:	MID-2-22704		
Lab Sample ID:	M37937-4	Date Sampled:	02/27/04
Matrix:	AQ - Ground Water	Date Received:	03/01/04
Method:	EPA 602	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN25718.D	1	03/10/04	AP	n/a	n/a	GMN971
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	77%		53-157%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST Laboratories

Accutest Laboratories

Report of Analysis

Client Sample ID:	MID-2-22704		
Lab Sample ID:	M37937-4	Date Sampled:	02/27/04
Matrix:	AQ - Ground Water	Date Received:	03/01/04
		Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/02/04	BF	EPA 418.1

RL = Reporting Limit

ACCUTEST Laboratories

Accutest Laboratories

Report of Analysis

Client Sample ID:	EFF-22704		
Lab Sample ID:	M37937-5	Date Sampled:	02/27/04
Matrix:	AQ - Effluent	Date Received:	03/01/04
Method:	EPA 602	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN25719.D	1	03/10/04	AP	n/a	n/a	GMN971
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	76%		53-157%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST Laboratories

Accutest Laboratories

Report of Analysis

Client Sample ID:	EFF-22704		
Lab Sample ID:	M37937-5	Date Sampled:	02/27/04
Matrix:	AQ - Effluent	Date Received:	03/01/04
		Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/02/04	BF	EPA 418.1

RL = Reporting Limit

ACCUTEST Laboratories

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M37937
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: CDM
ADDRESS: 50 HAMPSHIRE ST
CITY, STATE, ZIP: CAMBRIDGE, MA
SEND REPORT TO: JIM WINKLER
PHONE #: (617) 452-6263

FACILITY INFORMATION

PROJECT NAME: GLOBAL PETROLEUM
LOCATION: 140 LEE BURBANK HGHY
REVERE, MA
PROJECT NO.: 20394-35913-OM.INP
FAX #:

ANALYTICAL INFORMATION

BTEX/MTBE 602
TPH 418.1

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	BTEX/MTBE 602	TPH 418.1	LAB USE ONLY
M379321	INF-22704	2.27.04	10:00	TAN	GW	4	X			X		X	X	
-2	CIN-22704		10:10			4	X			X		X	X	
-3	MID-1-22704		10:15			4	X			X		X	X	
-4	MID-2-22704		10:25			4	X			X		X	X	
-5	EFF-22704	2.27.04	10:30	TAN	GW	4	X			X		X	X	
														6: 4C,
														359

DATA TURNAROUND INFORMATION

- [x] 14 DAYS STANDARD
- [ ] 7 DAYS *RUSH*
- [ ] 48 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

MCP-PRESUMPTIVE CERTAINTY REQUIRED

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2.27.04 12:00	1. Jack Wilson	2. Jack Wilson	3/1/04 14:25	2. [signature]
RELINQUISHED BY: 3. [signature]	DATE TIME: 3/1/04 16:40	RECEIVED BY: 3. [signature]	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 0.8 C

M37937: Chain of Custody
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