

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			10/14/04		11/22/04		12/20/04	
Parameter	NPDES Limit		Influent	Effluent	Influent	Effluent	Influent	Effluent
TPH	5 ppm		0.88 mg/l	ND mg/l	1.6 mg/l	ND mg/l	2.8 mg/l	ND mg/l
Methyl Butyl Tert Ether	70 ppb		172,000 ug/l	ND ug/l	193,000 ug/l	2.0 ug/l	200,000 ug/l	72 ug/l
Benzene	5 ppb		2,770 ug/l	ND ug/l	2,180 ug/l	ND ug/l	2,800 ug/l	ND ug/l
Toluene	*		3,380 ug/l	ND ug/l	3,040 ug/l	ND ug/l	4,640 ug/l	ND ug/l
Ethylbenzene	*		343 ug/l	ND ug/l	551 ug/l	ND ug/l	568 ug/l	ND ug/l
Xylenes	*		3,840 ug/l	ND ug/l	3,390 ug/l	ND ug/l	5,120 ug/l	ND ug/l
Total BTEX	100 ppb		10,333 ug/l	ND ug/l	9,161 ug/l	ND ug/l	13,128 ug/l	ND ug/l

ND - Not detected



01/03/05

Technical Report for

Camp Dresser & McKee
Global Petroleum, Revere MA

Accutest Job Number: M44094

Sampling Date: 12/20/04

Report to:

Camp, Dresser & McKee

WinklerJH@cdm.com

ATTN: Jim Winkler

Total number of pages in report: 15



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 Fard
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Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

Camp Dresser & McKee

Job No: M44094

Global Petroleum, Revere MA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M44094-1	12/20/04	11:05	TAN	12/23/04	AQ Influent	INF-122004
M44094-2	12/20/04	11:00	TAN	12/23/04	AQ Ground Water	CIN-122004
M44094-3	12/20/04	10:55	TAN	12/23/04	AQ Ground Water	MID-1-122004
M44094-4	12/20/04	10:45	TAN	12/23/04	AQ Ground Water	MID-2-122004
M44094-5	12/20/04	10:40	TAN	12/23/04	AQ Effluent	EFF-122004

Report of Analysis

Client Sample ID: INF-122004 Lab Sample ID: M44094-1 Matrix: AQ - Influent Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 12/20/04 Date Received: 12/23/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18873.D	1	12/24/04	AF	n/a	n/a	GAB957
Run #2	AB18878.D	250	12/24/04	AF	n/a	n/a	GAB957

Run #	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	2800 ^a	250	ug/l	
108-88-3	Toluene	4640 ^a	250	ug/l	
100-41-4	Ethylbenzene	568	1.0	ug/l	
1330-20-7	Xylenes (total)	5120 ^a	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	200000 ^a	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	72%	92%	61-124%

(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

Report of Analysis

Client Sample ID:	INF-122004	Date Sampled:	12/20/04
Lab Sample ID:	M44094-1	Date Received:	12/23/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	2.8	0.61	mg/l	1	12/27/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: CIN-122004	Date Sampled: 12/20/04
Lab Sample ID: M44094-2	Date Received: 12/23/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 602	
Project: Global Petroleum, Revere MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18874.D	1	12/24/04	AF	n/a	n/a	GAB957
Run #2	AB18879.D	200	12/24/04	AF	n/a	n/a	GAB957

Run #	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	16.4	1.0	ug/l	
108-88-3	Toluene	19.8	1.0	ug/l	
100-41-4	Ethylbenzene	2.3	1.0	ug/l	
1330-20-7	Xylenes (total)	40.4	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	52800 ^a	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	113%	85%	61-124%

(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

Report of Analysis

Client Sample ID:	CIN-122004	Date Sampled:	12/20/04
Lab Sample ID:	M44094-2	Date Received:	12/23/04
Matrix:	AQ - Ground Water	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	12/27/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-1-122004	Date Sampled: 12/20/04
Lab Sample ID: M44094-3	Date Received: 12/23/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 602	
Project: Global Petroleum, Revere MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18875.D	1	12/24/04	AF	n/a	n/a	GAB957
Run #2	AB18880.D	100	12/24/04	AF	n/a	n/a	GAB957

Run #	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	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	12000 ^a	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	90%	87%	61-124%

(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

Report of Analysis

Client Sample ID:	MID-1-122004	Date Sampled:	12/20/04
Lab Sample ID:	M44094-3	Date Received:	12/23/04
Matrix:	AQ - Ground Water	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	12/27/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

Client Sample ID: MID-2-122004 Lab Sample ID: M44094-4 Matrix: AQ - Ground Water Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 12/20/04 Date Received: 12/23/04 Percent Solids: n/a
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	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18876.D	1	12/24/04	AF	n/a	n/a	GAB957
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	309	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	88%		61-124%

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

Report of Analysis

Client Sample ID: MID-2-122004	Date Sampled: 12/20/04
Lab Sample ID: M44094-4	Date Received: 12/23/04
Matrix: AQ - Ground Water	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	12/27/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

2.5
2

Client Sample ID: EFF-122004 Lab Sample ID: M44094-5 Matrix: AQ - Effluent Method: EPA 602 Project: Global Petroleum, Revere MA	Date Sampled: 12/20/04 Date Received: 12/23/04 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB18877.D	1	12/24/04	AF	n/a	n/a	GAB957
Run #2							

Run #	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	72.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	87%		61-124%

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

Report of Analysis

Client Sample ID: EFF-122004	Date Sampled: 12/20/04
Lab Sample ID: M44094-5	Date Received: 12/23/04
Matrix: AQ - Effluent	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	12/27/04	BF	EPA 418.1

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

