file ACT/047/002
cc. J. Whitehead
w/ attach

GEOKINETICS INC. *shale oil development and production*

391 Chipeta Way D-2 • Salt Lake City, Utah 84108-1282 • Telephone (801) 583-0511

John Whitehead, Permit Supervisor
Utah State Division of Oil Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Sept. 2, 1986

RECEIVED
SEP 05 1986
DIVISION OF
OIL, GAS & MINING

Dear John:

At our meeting on August 26, 1986, we discussed proceedures for abandoning our evaporation ponds at Kamp Kerogen.

This letter describes the ponds, and gives analysis of water and solids from ponds #1 and #2.

There are 3 evaporation ponds at the site. All are lined with heavy duty plastic liners.

Pond #1 was constructed in 1978, and is 7500 square feet in bottom area. This pond recieved water from the old tank battery. This consisted of water produced with the shale oil during retorting. A substantial amount of soil washed into the the pond from the upslope side of the pond, and forms a layer 1" to 4" deep on the liner. This in turn is overlain by a layer of oily material ¼" to ½" thick. The pond currently contains about 6" to 12" of water.

Pond #2 was constructed in 1983, and is 55,000 square feet in bottom area. The pond recieved retort water from the new tank battery, and ground water pumped from the retorts after blasting and prior to retorting. The pond contains about ¼" to ½" of soil, overlain in part by a thin film of oily material. The pond is currently dry over about 2/3 of its area, and contains a few inches of water over the remainder.

Pond #3 was constructed in 1983, and is 96,000 square feet in bottom area. It contained ground water pumped from the retorts prior to ignition, and water pumped up from pond #2. The intake of the pump that transferred water from pond #2 to pond #3 was designed to avoid lifting any oil skim from #2 to #3. The pond currently contains about 12" of water.

Analysis of water and solids from ponds #1 and #2 were made in the second half of 1983. A total of 11 samples were analysed. Two samples

were taken in June 83 and analysed by MIDECO. In July 1983 three more samples were sent to MIDECO for analysis. In September 1983 three samples were taken and sent to Ford Chemical Lab., and in December 1983 three samples were taken and sent to Rocky Mountain Analytical Labs. All samples were analysed for arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver.

Enclosed is a summary of the analysis, and copies of the original laboratory reports

All samples were consistently low in the individual metals except for one sample in the last suite analysed by Rocky Mountain, which showed anomalously high readings in arsenic, cadmium and selenium (sample #9859).

We propose the following proceedure for reclaiming the pond areas:

1. evaporate all water from the ponds
2. rip the liner to make the bottom permeable, and leave the ripped liner in place.
3. fill the pond with the dike material
4. contour to match the surrounding topography
5. cover with soil
6. seed with an approved grass mix

Kindly advise if this proceedure meets with your approval.

Sincerely,

Mitchell A. Lekas
President

GEOKINETICS POND #1 & #2

LABORATORY			MIDECO				FORD		ROCKY	MOUNTAIN	
SAMPLE #	9609	9610	9668-2	9669-2	9670-2	9668-1	9669-1	9670-1	9858	9859	9860
SAMPLE TYPE	SOLID	LIQUID	LINER	SLUDGE	WATER	LINER	SLUDGE	LIQUID	WATER	SLUDGE	SOIL
DATE	6/16/83	6/16/83	7/29/83	7/29/83	7/29/83	9/6/83	9/6/83	9/6/83	12/7/83	12/7/83	12/7/83
ARSENIC	0.01	0.01	0.4	0.4	0.4	0.065	6.50	3.0	2.4	300	3.6
BARIUM	0.1	0.1	0.1	0.1	0.1	0.42	0.34	0.50	0.081	0.54	0.43
CADMIUM	0.01	0.007	0.002	0.017	0.002	<.01	<.001	<.001	0.031	2.8	ND
CHROMIUM	0.04	0.04	0.04	0.04	0.04	0.01	0.03	0.02	ND	ND	ND
LEAD	0.42	0.37	0.05	0.05	0.05	0.02	0.24	0.073	ND	ND	ND
MERCURY	0.003	0.003	0.001	0.001	0.001	<.0002	<.0002	<.0002	ND	ND	ND
SELENIUM	0.06	0.06	0.1	0.1	0.1	<.01	0.038	<.001	0.08	8.8	ND
SILVER	0.06	0.04	0.006	0.006	0.006	<.01	<.001	<.001	0.031	0.51	0.072

GEOKINETICS INC. shale oil development and production

582 north vernal avenue • p.o. box 889 • vernal, utah 84078 • telephone (801) 789-0806

July 28, 1983

Mideco
Mr. David Gayer
420 Chipeta Way, Suite 280
University Research Park
Salt Lake City, UT 84108

RECEIVED
JUL 29 1983
GEOKINETICS
SALT LAKE CITY

Gentlemen:

Enclosed are three (3) samples for the analysis of hazardous waste. Please conduct the EP Toxicity test (metals only) on each sample. Sample #9668-2 contains a liner material coated with a solid. Only analyze the solid material, do not analyze the liner.

It has been brought to our attention by Mr. Kent Montague of the Utah Bureau of Solid and Hazardous Waste that there may be certain problems with standard techniques in analyzing solid materials for hazardous waste. Therefore, please contact Mr. Montague at 533-4145 prior to testing, for specific modifications to the testing.

The results of the analysis are to be kept confidential. Do not release any information to any other entity without written permission from Geokinetics Inc.

If there are any questions regarding the analysis, or the samples, please do not hesitate to contact me at 328-9955.

Sincerely yours,

William L. Sharrer

William L. Sharrer
Environmental Engineer

gb
cc:
bcc: Vernal, SLC, Kamp
Rusty, Catherine

SLUDGE

First Sample Sent.

MIDECO

420 CHIPETA WAY - SUITE 280
UNIVERSITY OF UTAH RESEARCH PARK
SALT LAKE CITY, UTAH 84108
TELEPHONE: (801) 582-3136
TWX 910-925-5258

ENVIRONMENTAL LAB ANALYSIS

LABORATORY NUMBER:	48600
SAMPLE SOURCE:	GEOKINETICS INC.
SAMPLE IDENTIFICATION:	9609 Solid
START DATE:	16 Jun 83
COMPLETION DATE:	22 Jun 83

****

TEST REQUESTED	RESULTS
EP TOXICITY	
Arsenic	<0.01 mg/L
Barium	<0.1 mg/L
Cadmium	0.010 mg/L
Chromium	<0.04 mg/L
Lead	0.42 mg/L
Mercury	<0.003 mg/L
Selenium	<0.06 mg/L
Silver	0.06 mg/L

David W. Gayer
Environmental Lab Director

ph

ALL REPORTS AND LETTERS ISSUED BY MICROBIOLOGICAL DEVELOPMENT & CONTROL, INC., D.B.A. MIDECO, ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM IT IS ADDRESSED AND SUCH OTHER PARTIES AS SAID CLIENT SHALL DISCLOSE IN WRITING TO MIDECO. NO QUOTATIONS FROM REPORTS OR USE OF THE CORPORATE NAME OR ACRONYM IS PERMITTED EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING. THE SIGNIFICANCE OF ANY DATA IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES TENDERED FOR TESTING. MIDECO WARRANTS THAT ALL TESTS ARE PERFORMED IN ACCORDANCE WITH ESTABLISHED LABORATORY PROCEDURES AND STANDARDS. ALL OTHER WARRANTIES ARE EXCEPTED. IN NO EVENT SHALL MIDECO'S RESPONSIBILITY EXCEED THE COST OF TESTS PERFORMED.

WATER

MIDECO

420 CHIPETA WAY - SUITE 280
UNIVERSITY OF UTAH RESEARCH PARK
SALT LAKE CITY, UTAH 84108
TELEPHONE: (801) 582-3136
TWX 910-925-5258

ENVIRONMENTAL LAB ANALYSIS

LABORATORY NUMBER:	48601
SAMPLE SOURCE:	GEOKINETICS INC.
SAMPLE IDENTIFICATION:	9610 Liquid
START DATE:	16 Jun 83
COMPLETION DATE:	22 Jun 83

****

TEST REQUESTED	RESULTS
EP TOXICITY	
Arsenic	<0.01 mg/L
Barium	<0.1 mg/L
Cadmium	0.007 mg/L
Chromium	<0.04 mg/L
Lead	0.37 mg/L
Mercury	<0.003 mg/L
Selenium	<0.06 mg/L
Silver	0.04 mg/L

David W. Gayer
Environmental Lab Director

ph

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MIDECO

420 CHIPETA WAY - SUITE 280
UNIVERSITY OF UTAH RESEARCH PARK
SALT LAKE CITY, UTAH 84108
TELEPHONE: (801) 582-3136
TWX 910-925-5258

ENVIRONMENTAL LAB ANALYSIS

LAB NUMBER	49213
SPONSOR	Geokinetics
SAMPLE IDENTIFICATION	9668-2 LINER
DATE RECEIVED	29 Jul 83
STARTING DATE	29 Jul 83
COMPLETION DATE	02 Aug 83

****

TEST REQUESTED	RESULTS
EP TOXICITY	
Arsenic	<0.4 mg/L
Barium	<0.1 mg/L
Cadmium	<0.002 mg/L
Chromium	<0.04 mg/L
Lead	<0.05 mg/L
Mercury	<0.001 mg/L
Selenium	<0.1 mg/L
Silver	<0.006 mg/L

David W. Gayer
Environmental Lab Director

kr

ALL REPORTS AND LETTERS ISSUED BY MICROBIOLOGICAL DEVELOPMENT & CONTROL INC D B A MIDECO ARE FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM IT IS ADDRESSED AND SUCH OTHER PARTIES AS SAID CLIENT SHALL DISCLOSE IN WRITING TO MIDECO NO QUOTATIONS FROM REPORTS OR USE OF THE CORPORATE NAME OR ACRONYM IS PERMITTED EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING THE SIGNIFICANCE OF ANY DATA IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES TENDERED FOR TESTING MIDECO WARRANTS THAT ALL TESTS ARE PERFORMED IN ACCORDANCE WITH ESTABLISHED LABORATORY PROCEDURES AND STANDARDS ALL OTHER WARRANTIES ARE EXCEPTED IN NO EVENT SHALL MIDECO'S RESPONSIBILITY EXCEED THE COST OF TESTS PERFORMED

MIDECO

420 CHIPETA WAY - SUITE 280
UNIVERSITY OF UTAH RESEARCH PARK
SALT LAKE CITY, UTAH 84108
TELEPHONE: (801) 582-3136
TWX 910-925-5258

ENVIRONMENTAL LAB ANALYSIS

LAB NUMBER	49214
SPONSOR	Geokinetics
SAMPLE IDENTIFICATION	9669-2 SLUDGE
DATE RECEIVED	29 Jul 83
STARTING DATE	29 Jul 83
COMPLETION DATE	02 Aug 83

****

TEST REQUESTED	RESULTS
EP TOXICITY	
Arsenic	<0.4 mg/L
Barium	<0.1 mg/L
Cadmium	<0.017 mg/L
Chromium	<0.04 mg/L
Lead	<0.05 mg/L
Mercury	<0.001 mg/L
Selenium	<0.1 mg/L
Silver	<0.006 mg/L

David W. Gayer
Environmental Lab Director

kr

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MIDECO

420 CHIPETA WAY - SUITE 280
UNIVERSITY OF UTAH RESEARCH PARK
SALT LAKE CITY, UTAH 84108
TELEPHONE: (801) 582-3136
TWX 910-925-5258

ENVIRONMENTAL LAB ANALYSIS

LAB NUMBER	49215
SPONSOR	Geokinetics
SAMPLE IDENTIFICATION	9670-2 WATER
DATE RECEIEVED	29 Jul 83
STARTING DATE	29 Jul 83
COMPLETION DATE	02 Aug 83

****

TEST REQUESTED	RESULTS
EP TOXICITY	
Arsenic	<0.4 mg/L
Barium	<0.1 mg/L
Cadmium	<0.002 mg/L
Chromium	<0.04 mg/L
Lead	<0.05 mg/L
Mercury	<0.001 mg/L
Selenium	<0.1 mg/L
Silver	<0.006 mg/L

David W. Gayer
Environmental Lab Director

kr

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GEOKINETICS INC. shale oil development and production

582 north vernal avenue • p.o. box 889 • vernal, utah 84078 • telephone (801) 789-080

July 28, 1983

RECEIVED
JUL 29 1983
GEOKINETICS
SALT LAKE CITY

Ford Chemical Laboratory
40 W Louise Avenue
Salt Lake City, UT

Gentlemen:

Enclosed are three (3) samples for the analysis of hazardous waste. Please conduct the EP Toxicity test (metals only) on each sample. Sample #9668-1 contains a liner material coated with a solid. Only analyze the solid material, do not analyze the liner.

It has been brought to our attention by Mr. Kent Montague of the Utah Bureau of Solid and Hazardous Waste that there may be certain problems with standard techniques in analyzing solid materials for hazardous waste. Therefore, please contact Mr. Montague at 533-4145 prior to testing, for specific modifications to the testing.

The results of the analysis are to be kept confidential. Do not release any information to any other entity without written permission from Geokinetics Inc.

If there are any questions regarding the analysis, or the samples, please do not hesitate to contact me at 328-9955.

Sincerely yours,

William L. Sharrer

William L. Sharrer
Environmental Engineer

gb
cc:

bcc: Vernal, SLC, Kamp
Rusty, Catherine

Ford Chemical
LABORATORY, INC.
Bacteriological and Chemical Analysis
40 WEST LOUISE AVENUE
SALT LAKE CITY, UTAH 84115
PHONE 466-8761

DATE: 09/06/83

CERTIFICATE OF ANALYSIS

GEOKINETICS INC.
P.O. BOX 889
VERNAL, UT
84078

83-005815

SAMPLE: SOLID SAMPLE RECEIVED 8-1-83 FOR E.P. TOXIC ANALYSIS USING SOLID PORTION OF LINER MATERIAL: PROCEDURE SW 846 FOR LEACHABLE METALS UNDER P.O. #0333.

9668-1

1-Arsenic as As mg/l-D004	.065
1-Barium as Ba mg/l-D005	.420
1-Cadmium as Cd mg/l-D006	<.01
1-Chromium as Cr mg/l-D007	.010
1-Lead Spike Recovery %	99.10
1-Lead as Pb (dupl) mg/l	.021
1-Lead as Pb mg/l-D008	.020
1-Mercury as Hg mg/l-D009	<.0002
1-Selenium as Se mg/l-D010	<.01
1-Silver as Ag mg/l-D011	<.01
1-pH Final Units	5.04
1-pH Initial Units	9.10
Liquid %	<.1

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or, extracts from or regarding them, is reserved pending our written approval as a mutual protection to clients, the public and ourselves.

Ford Chemical
LABORATORY, INC.
Bacteriological and Chemical Analysis
40 WEST LOUISE AVENUE
SALT LAKE CITY, UTAH 84115
PHONE 466-8761

CERTIFICATE OF ANALYSIS
83-005815

	9668-1
Solids %	100.000

FORD CHEMICAL LABORATORY, INC.

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SLUDGE

Ford Chemical
LABORATORY, INC.
Bacteriological and Chemical Analysis
40 WEST LOUISE AVENUE
SALT LAKE CITY, UTAH 84115
PHONE 466-8761

DATE: 09/06/83

CERTIFICATE OF ANALYSIS

GEOKINETICS INC.
P.O. BOX 889
VERNAL, UT
84078

83-005816

SAMPLE: SLUDGE SAMPLE RECEIVED 8-1-83 FOR E.P. TOXIC ANALYSIS USING PROCEDURE SW 846 FOR LEACHABLE METALS UNDER P.O. #0333.

9669-1

1-Arsenic as As mg/l-D004	6.500
1-Barium as Ba mg/l-D005	.340
1-Cadmium as Cd mg/l-D006	<.001
1-Chromium as Cr mg/l-D007	.030
1-Lead Spike Recovery %	98.90
1-Lead as Pb (dupl) mg/l	.244
1-Lead as Pb mg/l-D008	.240
1-Mercury as Hg mg/l-D009	<.0002
1-Selenium as Se mg/l-D010	.038
1-Silver as Ag mg/l-D011	<.001
1-pH Final Units	5.02
1-pH Initial Units	10.10
Liquid %	<.1

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Ford Chemical
LABORATORY, INC.
Bacteriological and Chemical Analysis
40 WEST LOUISE AVENUE
SALT LAKE CITY, UTAH 84115
PHONE 466-8761

CERTIFICATE OF ANALYSIS
83-005816

9669-1

Solids %	100

FORD CHEMICAL LABORATORY, INC.

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Ford Chemical
LABORATORY, INC.
Bacteriological and Chemical Analysis
40 WEST LOUISE AVENUE
SALT LAKE CITY, UTAH 84115
PHONE 466-8761

DATE: 09/06/83

CERTIFICATE OF ANALYSIS

GEOKINETICS INC.
P.O. BOX 889
VERNAL, UT
84078

83-005817

SAMPLE: LIQUID SAMPLE RECEIVED 8-1-83 FOR E.P. TOXIC ANALYSIS USING PROCEDURE SW 846 FOR LEACHABLE METALS UNDER P.O. #0333.

9670-1

1-Arsenic as As mg/l-D004	3.000
1-Barium as Ba mg/l-D005	.050
1-Cadmium as Cd mg/l-D006	<.001
1-Chromium as Cr mg/l-D007	.020
1-Lead Spike Recovery %	98.95
1-Lead as Pb (dupl) mg/l	.073
1-Lead as Pb mg/l-D008	.070
1-Mercury as Hg mg/l-D009	<.0002
1-Selenium as Se mg/l-D010	<.001
1-Silver as Ag mg/l-D011	<.001
1-pH Initial Units	8.30
Liquid %	100
Solids %	<.5

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Ford Chemical
LABORATORY, INC.
Bacteriological and Chemical Analysis
40 WEST LOUISE AVENUE
SALT LAKE CITY, UTAH 84115
PHONE 466-8761

CERTIFICATE OF ANALYSIS
83-005817

9670-1

========== =========

FORD CHEMICAL LABORATORY, INC.

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RECEIVED
JAN 13 1984

GEOKINETICS
SALT LAKE CITY

Rocky Mountain Analytical Laboratory

December 30, 1983

Bill Sharrer
Geokinetics, Inc.
P.O. Box 1168
Vernal, Utah 84078

Dear Bill:

Enclosed are the results for the EP toxic metals analysis of the three samples received December 7, 1983. The sample designated #9859 was in excess of RCRA limits for arsenic, cadmium and selenium.

Included is a list of standard methodologies and nominal detection limits.

Please call if you have any questions.

Best Regards,

Mark J. Bollinger, Ph.D.
Senior Scientist
Inorganic Chemistry

MJB/jam
Enclosure

RMA #3343

ANALYTICAL RESULTS

for

Geokinetics Inc.

TRACE METALS

Parameter	Units	Detection Limit	3343-01	3343-02*	3343-03
Arsenic	mg/l	0.04	2.4	300. *	3.6
Barium	mg/l	0.05	0.081	0.54	0.43
Cadmium	mg/l	0.02	0.031	2.8 *	ND
Chromium	mg/l	0.05	ND	ND	ND
Lead	mg/l	0.25	ND	ND	ND
Mercury	mg/l	0.0002	ND*	ND*	ND
Selenium	mg/l	0.04	0.08	8.8 *	ND
Silver	mg/l	0.03	0.031	0.51	0.072

ND = Not detected.

*Detection limits 10x those shown

* over RCRA limits

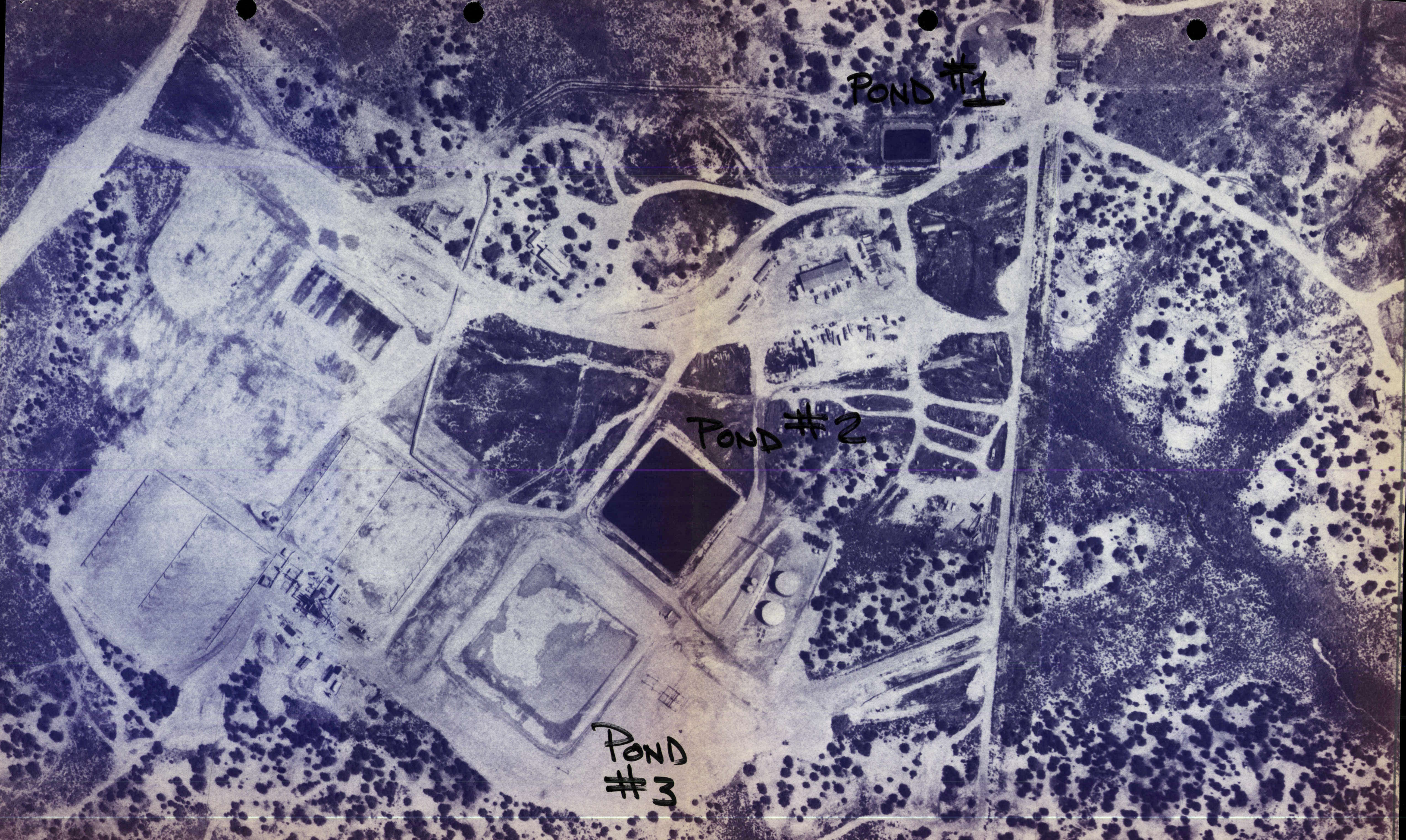
SAMPLE DESCRIPTION INFORMATION

for

Geokinetics Inc.

RMA Sample No.	Sample Description	Sample Type	Date Sampled	Date Received
3343-01	#9858 from Pond 1	water	11/18/83	12/7/83
3343-02	#9859 from Pond Sludge	sludge	-	12/7/83
3343-03	#9860 from sludge mixture	soil	-	12/7/83

December 29, 1983


POND #1
POND #2
POND #3