

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

7/11/95 - Looking good -
continue QMR.

January 25, 1995

pendantish, there should be no PNA - OST not used
for ages, single floors

Mr. Rick Oliver
Environmental Analyst
BANK OF AMERICA
555 Anton Boulevard, Suite 1025
Costa Mesa, California 92626

Clayton Project No. 62009.01

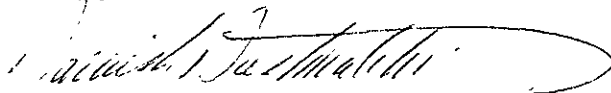
Subject: Quarterly Groundwater Sampling at 1528 Webster Street in Alameda,
California

Dear Mr. Oliver:

Clayton Environmental Consultants, Inc. is pleased to present five copies of our first quarterly report for the groundwater sampling activities at Bank of America property located at 1528 Webster Street in Alameda, California.

If you have any questions please contact me or Mr. John Vargas at (510) 426-2600.

Sincerely,

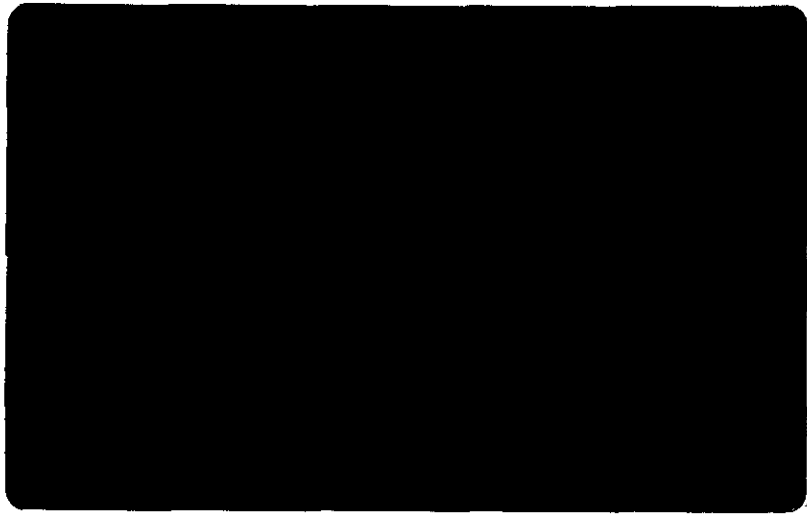


Dariush Dastmalchi
Geologist

DD/dd

cc: Ms. Eva Chu, Alameda County Health Care Services Agency

95 JUL 10 PM 2:12
Environmental Consultants



ENVIRONMENTAL
SERVICES INC.
MAY 21 2013

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
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Clayton
ENVIRONMENTAL
CONSULTANTS

Quarterly Groundwater Sampling
at the
Bank of America Facility
located at
1528 Webster Street
Alameda, California
ES#302412

Clayton Project No. 62009.01
July 7, 1995

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1.0 INTRODUCTION

Mr. Rick Oliver, Environmental Analyst with Bank of America, retained Clayton Environmental Consultants, Inc. to conduct quarterly groundwater sampling and monitoring activities at the Bank of America facility located at 1528 Webster Street in Alameda, California (Figure 1). On March 30, 1995, Clayton collected the first quarterly groundwater samples for laboratory analysis from monitoring wells MW-1 through MW-5 (Figure 2). In addition, groundwater elevations were measured in April and May 1995.

2.0 BACKGROUND

On August 3, 1993, an underground storage tank (UST) was removed from beneath the sidewalk adjacent to the subject site (Figure 2). Soil samples collected from the UST excavation pit contained total petroleum hydrocarbons as diesel (TPH-D) concentration ranging from 300 to 1,300 milligrams per kilograms (mg/kg).

Because of the elevated concentration of TPH-D in the soil samples the UST pit was overexcavated on September 14, 1993.

After overexcavation was complete, eight samples were collected from the excavation walls. At the request of Alameda County Health Care Services Agency (ACHCSA), one sample from each wall was analyzed for TPH-D and benzene, toluene, ethylbenzene, and xylenes (BTEX).

The analytical reports indicated TPH-D concentrations ranging from 107 to 1,005 mg/kg in soil samples collected from the east, west, and south walls of the excavation. The soil samples from the excavation pit did not contain BTEX concentrations at or above the analytical detection limits. After sampling was complete, the excavation was backfilled using Class II base rock material.

During April and May 1994, Clayton installed three monitoring wells (MW-1, MW-2, and MW-3) near the former UST locations. These monitoring wells were installed to assess the extent of soil and possible groundwater contamination from the former UST.

According to the analytical reports, TPH-D concentrations in the groundwater samples ranged from 110 micrograms per liter ($\mu\text{g/L}$) in MW-1 to 4,100 $\mu\text{g/L}$ in MW-2. The TPH-D concentrations in the soil sample ranged from less than the detection limit in the soil samples from MW-3 to 6 mg/kg in the soil sample from MW-1.

*analyze for
PNAs in MW-2
Done*

Based on the groundwater elevation data collected on April 7, 1994, the groundwater flow direction was calculated to be toward the south.

In September 1994 Clayton installed two additional monitoring wells (MW-4 and MW-5) near the subject facility (Figure 2).

The analytical results identified TPH-D concentrations ranging from below the analytical detection limit in the groundwater samples from MW-1 and MW-5 to 4,400 $\mu\text{g/L}$ in MW-2. BTEX were not detected in the soil or groundwater samples.

Based on the groundwater measurements on October 24, 1994, groundwater flow direction was calculated to the northwest. Groundwater measurements in November 1994 indicated groundwater flow directions to be to the southeast.

On February 22, 1995 ACHCSA requested that groundwater elevations to be measured on a monthly basis. In addition, ACHCSA requested that the monitoring wells MW-1 through MW-5 be sampled on a quarterly basis.

3.0 SAMPLING ACTIVITIES

The water was purged from wells MW-1 through MW-5 using a 4-inch submersible pump. Approximately four well volumes were pumped from each well to ensure a water representative of the aquifer was present in the well. The well purge volume was calculated by using the measured depth to groundwater and bottom of the well casing to the nearest 0.01 foot upon arrival at the site.

The following parameters were noted during the sampling activities:

- Monitoring well identification
- Static water level
- Well depth
- Condition of water prior to purging (e.g., amount of free product)
- Purge rate and volume
- pH, temperature, and conductivity during purging
- Time purged
- Time of sample collection
- Sampling method
- Name of sampler
- Climatic conditions

The groundwater sample was collected using a new disposable bailer, after a sufficient volume of water had been purged for pH, temperature, and electrical conductivity to stabilize. All equipment coming into contact with groundwater was thoroughly cleaned and decontaminated before use at the site.

Groundwater was decanted in clean laboratory-supplied containers that were closed, labeled, placed immediately into an ice chest, and transported to Clayton's state-certified laboratory for analysis. One trip blank was furnished in accordance with Clayton's quality assurance/quality control (QA/QC) program.

The sample was collected in such a manner so as to minimize the volatilization of a sample due to agitation and/or transfer from bailer to sample container. To document and trace samples from time of collection, a signed chain-of-custody record was filled out by the sampler and accompanies the samples through the laboratory analyses. The completed chain-of-custody was included with the analytical report from the laboratory. Details of the groundwater sampling event is provided in the water sampling field survey forms (Appendix A).

4.0 ANALYTICAL RESULTS

The groundwater samples were analyzed using the following United States Environmental Protection Agency (USEPA) methods:

- USEPA Method 8015 for TPH-D
- USEPA Method 8020 for BTEX
- USEPA Method 160.1 for total dissolved solids (TDS)

In addition, the sample from well MW-2 was analyzed using USEPA Method 8310 for polynuclear aromatic hydrocarbons (PNAs)¹.

According to the analytical reports, TPH-D was detected only in the groundwater sample from monitoring well MW-2 at a concentration of 280 µg/L. BTEX was not detected in any of the groundwater samples. PNAs were not detected in the groundwater sample from MW-2. Analytical results are summarized in Table 1. Analytical reports are included in Appendix B.

5.0 GROUNDWATER FLOW DIRECTION

Using the groundwater elevations measured during the monthly inspection of the monitoring wells and during groundwater sampling activities, Clayton calculated the groundwater flow to be south-southeast at an approximate gradient of 0.002 feet per foot. Groundwater measurement and elevation are summarized in Table 2. Figure 3 shows dominant groundwater flow direction calculated for the first quarter of 1995. Groundwater flow direction was calculated to the southeast, based on the November 1994 groundwater elevations. The cause for fluctuation in the groundwater flow direction could not be determined during this investigation. However, it is possible that the groundwater levels fluctuate seasonally, due to the recent excessive rain events, or as the result of local landscape irrigation or discharge.

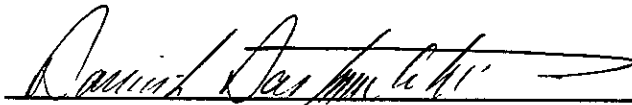
¹ At the request of ACHCSA, the groundwater sample from monitoring well MW-2 was analyzed using this method.

6.0 RECOMMENDATIONS

Because no PNAs were detected in the groundwater samples from well MW-2 we recommend that the future quarterly groundwater sample not to be tested for PNAs.

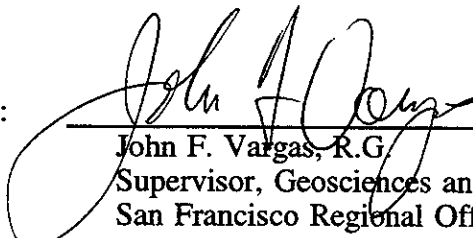
next step: to MW-2 has TPH-D, then analyze for PNAs

This report prepared by:



Dariush Dastmalchi
Geologist

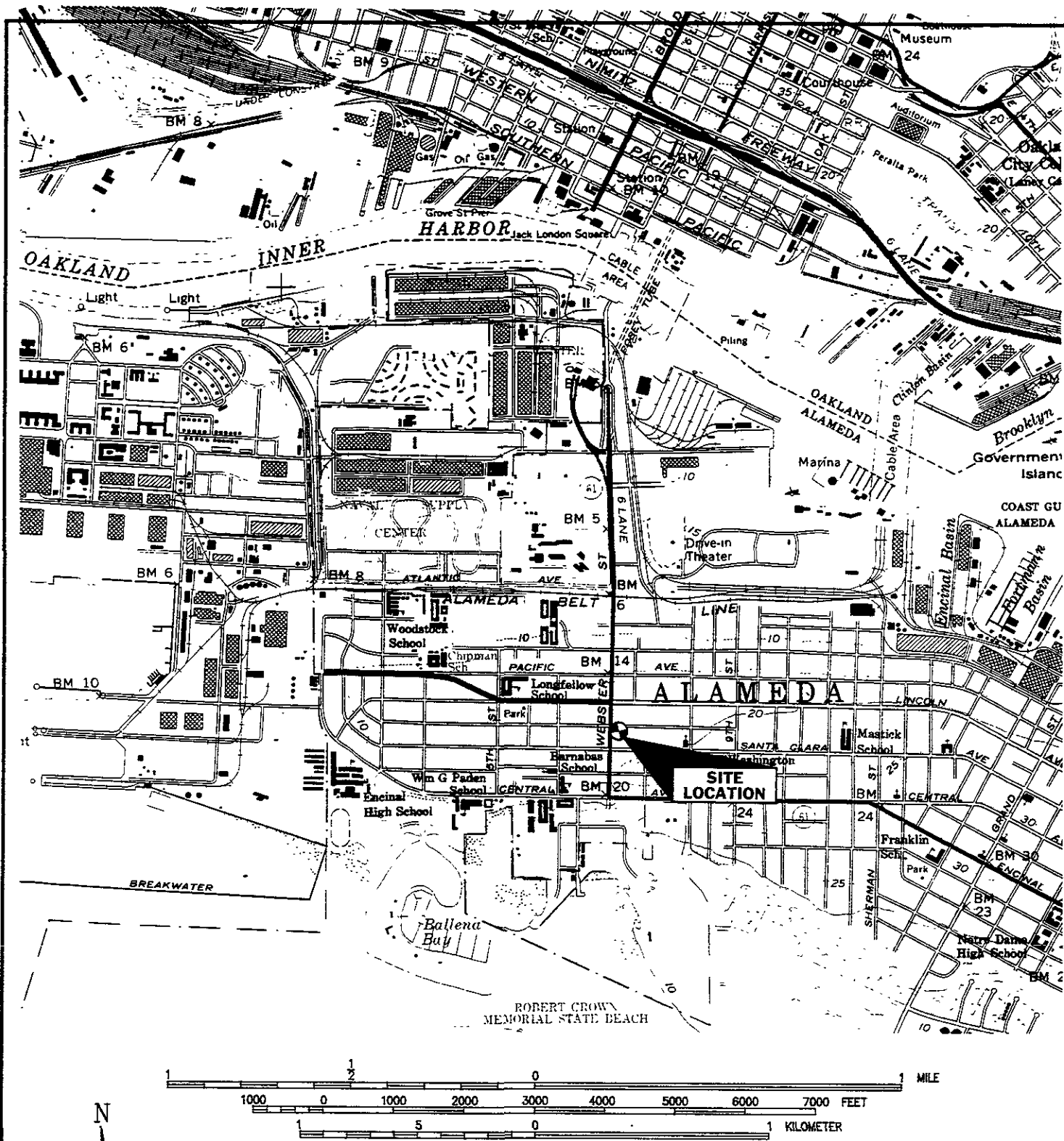
This report reviewed by:



John F. Vargas, R.G.
Supervisor, Geosciences and Remediation
San Francisco Regional Office

July 7, 1995

FIGURES



Portion of 7.5-minute Series (Topographic) Map
 United States Department of the Interior
 Geological Survey

Figure 1
 Site location

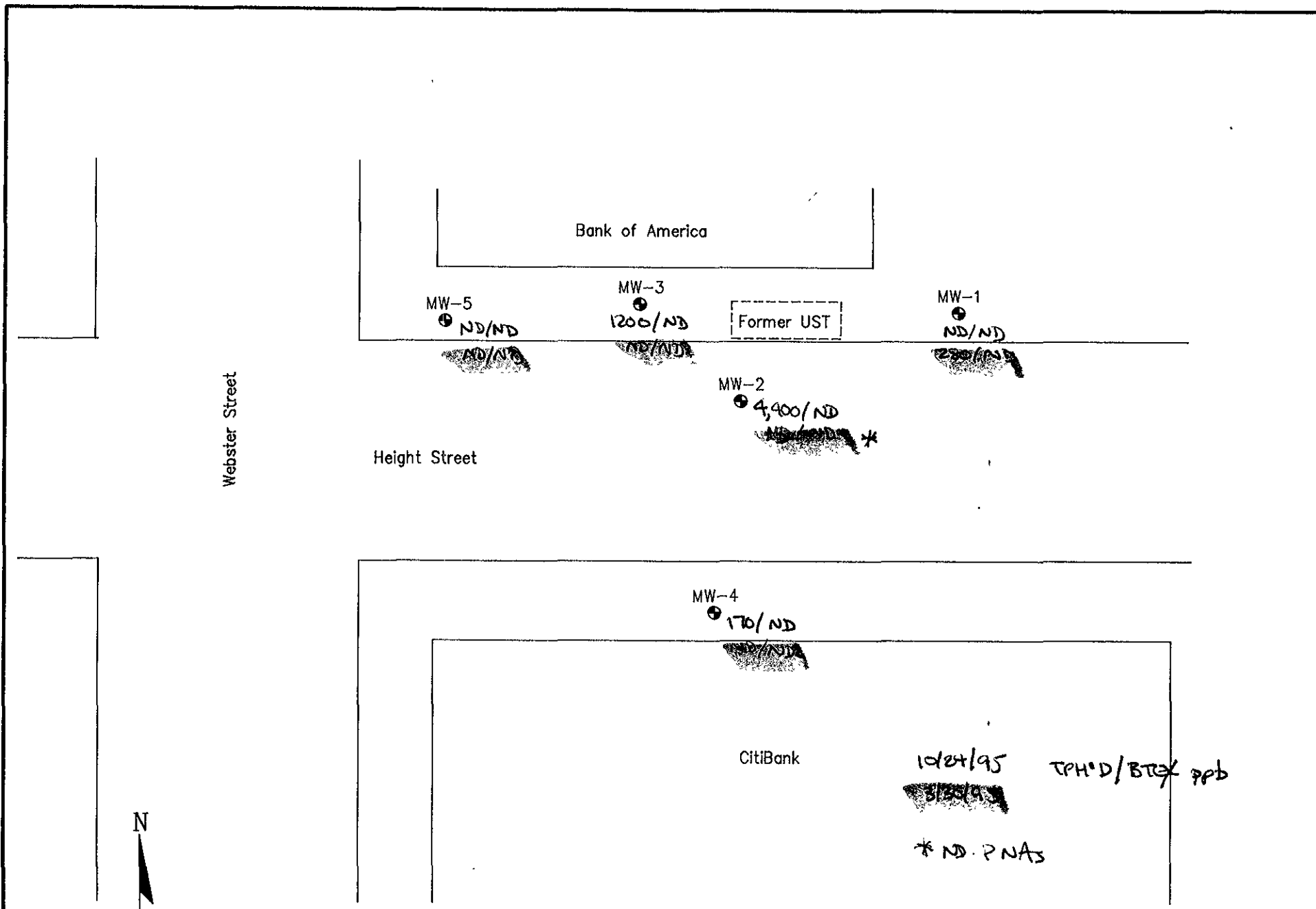
Clayton

ENVIRONMENTAL
 CONSULTANTS

Bank of America, 1528 Webster Street, Alameda, California

Clayton Project No. 62009.01

Bank of America



Approximate Scale 1" = 19'

<p>Figure 2 Site Vicinity Map</p>	<p>Clayton ENVIRONMENTAL CONSULTANTS</p>	<p>Bank of America, 1528 Webster Street, Alameda, California</p>	
		<p>Clayton Project No. 62009.01</p>	<p>Bank of America</p>

62009-01-18

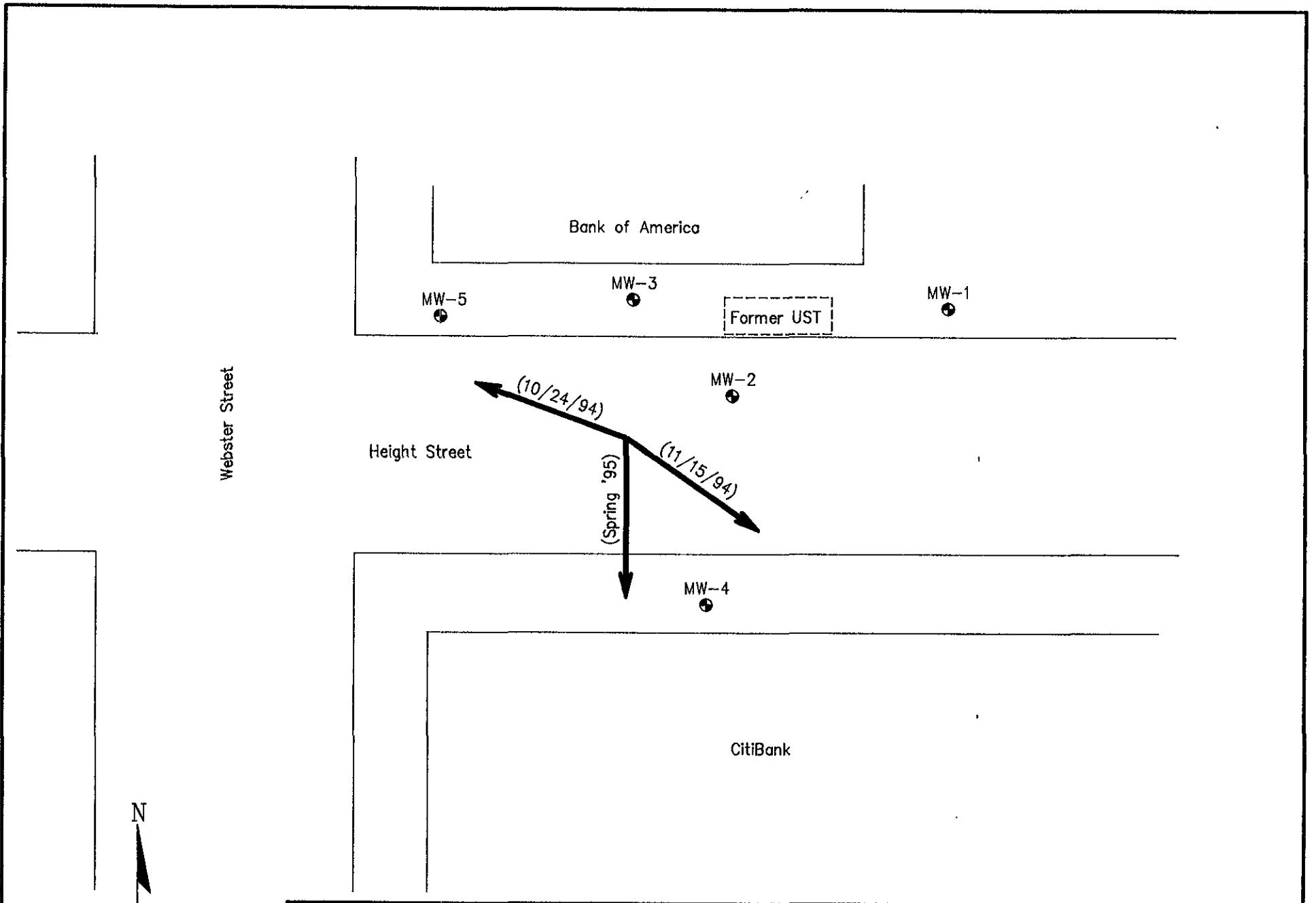


Figure 3 Dominant Groundwater Flow Directions 62009-01-17	Clayton ENVIRONMENTAL CONSULTANTS	Bank of America, 1528 Webster Street, Alameda, California	
		Clayton Project No. 62009.01	Bank of America

TABLES

Table 1
 Analytical Summary for Groundwater Samples
 Collected in October 1994 and March 1995
 All Concentrations in micrograms per liter (ug/L)

	TPH-D		BTEX		PNA		TDS	
	10/24/94	3/30/95	10/24/94	3/30/95	10/24/94	3/30/95	10/24/94	3/30/95
MW-1	ND	280.00	ND	ND	NA	NA	22,000,000	280,000
MW-2	4,400.00	ND	ND	ND	NA	ND	260,000	260,000
MW-3	1,200.00	ND	ND	ND	NA	NA	140,000	280,000
MW-4	170.00	ND	ND	ND	NA	NA	200,000	340,000
MW-5	ND	ND	ND	ND	NA	NA	180,000	170,000

TPH-D Total petroleum hydrocarbons as diesel
 BTEX Benzene, toluene, ethylbenzene, and xylenes
 PNA Polynuclear aromatics
 ND Not detected at or above analytical detection limits
 NA Not analyzed

MW-2, 9200

Table 2
 Groundwater Measurements and Elevation
 October 1994 through May 1995
 All measurements in feet

	MW-1	MW-2	MW-3	MW-4	MW-5
Top of Casing Elevation 10/24/94	13.07	13.52	13.34	13.69	13.52
Depth to Water 10/24/94	7.60	8.10	7.94	8.25	8.14
Groundwater Elevation 11/15/94	5.47	5.42	5.40	5.44	5.38
Depth to Water 11/15/95	6.38	6.79	6.44	7.02	6.58
Groundwater Elevation 3/30/95	6.69	6.73	6.90	6.67	6.94
Depth to Water 3/30/95	4.00	4.52	4.28	4.74	4.49
Groundwater Elevation 4/26/95	9.07	9.00	9.06	8.95	9.03
Depth to Water 4/26/95	4.48	4.98	4.78	5.18	4.93
Groundwater Elevation 4/26/95	8.59	8.54	8.56	8.51	8.59
Depth to Water 5/24/95	4.83	5.39	5.01	5.55	5.21
Groundwater Elevation 5/24/95	8.24	8.13	8.33	8.14	8.31

APPENDIX A

GROUNDWATER SAMPLING FIELD SURVEY FORM

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # _____ Site: BofA
 Well # MW-1 Sampling Team: M Springman Date: 3-30-95
 Sampling Method: Disposable Bailor
 Field Conditions: Clear - 65°

Describe Equipment D-Con Before Sampling This Well: _____

Total Depth of Well: 19.62 feet Time: 11:50 Depth to Water Before Pumping: 4.0 feet

Volume Height of Water Column: 15.62 feet *
 Diameter: 2-inch (circled .16) Volume: .65 = 2.49 gal * 4 = 9.96
 Purge Factor: 4 To Purge: 9.96
 Depth Purging From: 19.0 feet Time Surging Begins: 12:00

Notes on Initial Discharge: Brownish Color

Time	Volume Purged	pH	Conductivity	T	Notes
<u>12:02</u>	<u>2</u>	<u>4.9</u>	<u>180</u>	<u>19.0</u>	<u>Turbid</u> ↓ ↓ ↓ ↓
<u>12:03</u>	<u>4</u>	<u>5.2</u>	<u>172</u>	<u>18.4</u>	
<u>12:04</u>	<u>6</u>	<u>5.3</u>	<u>173</u>	<u>18.4</u>	
<u>12:06</u>	<u>8</u>	<u>5.3</u>	<u>175</u>	<u>18.4</u>	
<u>12:07</u>	<u>10</u>	<u>5.4</u>	<u>175</u>	<u>18.4</u>	

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # _____ Site: B of A - Alameda

Date: 3-30-95

Well # MW-5 Sampling Team: M. Springman

Sampling Method: See MW-1

Field Conditions: _____

Describe Equipment D-Con Before Sampling This Well: _____

Total Depth of Well: 19.2 feet Time: 2:35 Depth to Water Before Pumping: 4.59 feet

Volume Height of Water Column: 14.71 feet * Diameter: 2-inch (circled) .16 4-inch .65 = 2.35 gal * Purge Factor: 4 = 9.4 To Purge
 Depth Purging From: 19.0 feet Time Surging Begins: _____

Notes on Initial Discharge: Turbid

Time	Volume Purged	pH	Conductivity	T	Notes
<u>2:40</u>	<u>2</u>	<u>5.2</u>	<u>216</u>	<u>18.9</u>	<u>Turbid</u>
<u>2:42</u>	<u>6</u>	<u>5.2</u>	<u>246</u>	<u>18.6</u>	<u>Clear</u>
<u>2:44</u>	<u>8</u>	<u>5.4</u>	<u>243</u>	<u>18.7</u>	<u>Clear</u>
<u>2:46</u>	<u>10</u>	<u>5.4</u>	<u>250</u>	<u>18.8</u>	<u>Clear</u>
<u>2:48</u>	<u>12</u>	<u>5.4</u>	<u>237</u>	<u>18.2</u>	<u>Clear</u>
_____	_____	_____	_____	_____	_____

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # _____ Site: Bof A - Alameda

Date: 3.30.95

Well # MW-3 Sampling Test: _____

Sampling Method: Sec MW-1

Field Conditions: _____

Describe Equipment D-Con Before Sampling This Well: _____

Total Depth of Well: 19.86 feet

Time: 12:35

Depth to Water Before Pumping: 4.28 feet

Volume Height of Water Column: 15.58 feet *

Diameter

2-inch

4-inch

Volume

.16

.65

= 2.49

gal *

Purge

Factor

4

To Purge

= 9.96

Depth Purging From: 19.0 feet

Time Surging Begins: 12:43

Notes on Initial Discharge: Brownish color

Time	Volume Purged	pH	Conductivity	T	Notes
<u>12:44</u>	<u>2</u>	<u>5.0</u>	<u>075</u>	<u>19.9</u>	<u>Turbid</u>
<u>12:45</u>	<u>4</u>	<u>5.1</u>	<u>79</u>	<u>19.5</u>	<u>Turbid / Purged</u>
<u>12:50</u>	<u>6</u>	<u>5.2</u>	<u>81</u>	<u>19.5</u>	<u>" "</u>
<u>12:55</u>	<u>8</u>	<u>5.2</u>	<u>81</u>	<u>19.5</u>	<u>" "</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # _____ Site: BofA - Alameda Date: 3-30-88

Well # MW-4 Sampling Team: M. Springer

Sampling Method: See MW-1

Field Conditions: _____

Describe Equipment D-Con Before Sampling This Well: _____

Total Depth of Well: 19.8 feet Time: 1:45 Depth to Water Before Pumping: 4.74 feet

Volume Height of Water Column: 15.06 feet * Diameter 2-inch (.16) 4-inch .65 = 2.40 gal * Purge Factor 4 = 9.6 To Purge
 Depth Purging From: 19.0 feet Time Surging Begins: 1:53

Notes on Initial Discharge: Clear

Time	Volume Purged	pH	Conductivity	T	Notes
<u>1:54</u>	<u>2</u>	<u>5.0</u>	<u>288</u>	<u>18.3</u>	<u>Clear</u>
<u>1:55</u>	<u>4</u>	<u>5.3</u>	<u>307</u>	<u>18.0</u>	<u>Clear</u>
<u>1:56</u>	<u>6</u>	<u>5.3</u>	<u>412</u>	<u>18.7</u>	
<u>1:57</u>	<u>8</u>	<u>5.3</u>	<u>400</u>	<u>18.9</u>	
<u>1:59</u>	<u>10</u>	<u>5.3</u>	<u>400</u>	<u>18.9</u>	

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

WATER SAMPLING FIELD SURVEY FORM

Job # _____ Site: B-5 A - Alameda Date: 3-30-95
 Well # MW-2 Sampling Team: M Springer
 Sampling Method: See MW-1
 Field Conditions: _____

Describe Equipment D-Con Before Sampling This Well: _____

Total Depth of Well: 19.7 feet Time: 3:30 Depth to Water Before Pumping: 4.52 feet

Volume Height of Water Column: 15.18 feet * Diameter 2-inch Volume 16 * .65 = 2.42 gal * Purge Factor 4 = 9.68
 Depth Purging From: 19.0 feet Time Surging Begins: 3:47

Notes on Initial Discharge: Turbid

Time	Volume Purged	pH	Conductivity	T	Notes
3:02	2	5.2	450	18.7	Turbid
3:44	4	5.3	450	18.7	Clear
3:46	6	5.3	440	18.7	
3:48	8	5.4	376	18.7	
3:50	10	5.4	370	18.7	

APPENDIX B

ANALYTICAL REPORTS

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

April 12, 1995

Mr. Dariush Dastmalchi
CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
1252 Quarry Lane
Pleasanton, CA 94566

Client Ref.: 69009.00
Clayton Project No.: 95034.45

Dear Mr. Dastmalchi:

Attached is our analytical laboratory report for the samples received on March 30, 1995. Also enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples.

Please note that any unused portion of the samples will be discarded after May 12, 1995, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Harriotte A. Hurley, CIH
Director, Laboratory Services
San Francisco Regional Office

HAH/caa

Attachments

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification: MW-2	Date Sampled: 03/30/95
Lab Number: 9503445-03F	Date Received: 03/30/95
Sample Matrix/Media: WATER	Date Extracted: 04/04/95
Extraction Method: EPA 3510	Date Analyzed: 04/05/95
Method Reference: EPA 8310	Analyst: ASC

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>Polynuclear Aromatic Hydrocarbons</u>			
Acenaphthene	83-32-9	ND	0.2
Acenaphthylene	208-96-8	ND	0.5
Anthracene	120-12-7	ND	0.05
Benzo(a)anthracene	56-55-3	ND	0.02
Benzo(a)pyrene	50-32-8	ND	0.02
Benzo(b)fluoranthene	205-99-2	ND	0.02
Benzo(g,h,i)perylene	191-24-2	ND	0.04
Benzo(k)fluoranthene	207-08-9	ND	0.02
Chrysene	218-01-9	ND	0.02
Dibenzo(a,h)anthracene	53-70-3	ND	0.02
Fluoranthene	206-44-0	ND	0.05
Fluorene	86-73-7	ND	0.05
Indeno(1,2,3-c,d)pyrene	193-39-5	ND	0.04
Naphthalene	91-20-3	ND	0.2
Phenanthrene	85-01-8	ND	0.05
Pyrene	129-00-0	ND	0.05

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
Triphenylene	217-59-4	93	30 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9503445-06A	Date Received: --
Sample Matrix/Media: WATER	Date Extracted: 04/04/95
Extraction Method: EPA 3510	Date Analyzed: 04/05/95
Method Reference: EPA 8310	Analyst: ASC

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>Polynuclear Aromatic Hydrocarbons</u>			
Acenaphthene	83-32-9	ND	0.2
Acenaphthylene	208-96-8	ND	0.5
Anthracene	120-12-7	ND	0.05
Benzo (a) anthracene	56-55-3	ND	0.02
Benzo (a) pyrene	50-32-8	ND	0.02
Benzo (b) fluoranthene	205-99-2	ND	0.02
Benzo (g, h, i) perylene	191-24-2	ND	0.04
Benzo (k) fluoranthene	207-08-9	ND	0.02
Chrysene	218-01-9	ND	0.02
Dibenzo (a, h) anthracene	53-70-3	ND	0.02
Fluoranthene	206-44-0	ND	0.05
Fluorene	86-73-7	ND	0.05
Indeno (1, 2, 3-c, d) pyrene	193-39-5	ND	0.04
Naphthalene	91-20-3	ND	0.2
Phenanthrene	85-01-8	ND	0.05
Pyrene	129-00-0	ND	0.05

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
Triphenylene	217-59-4	89	30 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification:	MW-1	Date Sampled:	03/30/95
Lab Number:	9503445-01A	Date Received:	03/30/95
Sample Matrix/Media:	WATER	Date Prepared:	04/04/95
Preparation Method:	EPA 5030	Date Analyzed:	04/04/95
Method Reference:	EPA 8015/8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX/Gasoline</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
Gasoline	--	ND	50

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>OC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	93	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification:	MW-3	Date Sampled:	03/30/95
Lab Number:	9503445-02A	Date Received:	03/30/95
Sample Matrix/Media:	WATER	Date Prepared:	04/04/95
Preparation Method:	EPA 5030	Date Analyzed:	04/04/95
Method Reference:	EPA 8015/8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX/Gasoline</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
Gasoline	--	ND	50
<u>Surrogates</u>			
		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	79	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification:	MW-2	Date Sampled:	03/30/95
Lab Number:	9503445-03A	Date Received:	03/30/95
Sample Matrix/Media:	WATER	Date Prepared:	04/04/95
Preparation Method:	EPA 5030	Date Analyzed:	04/04/95
Method Reference:	EPA 8015/8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX/Gasoline</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
Gasoline	--	ND	50

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	77	50 - 150

ND: Not detected at or above limit of detection
 ---: Information not available or not applicable

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification: MW-4	Date Sampled: 03/30/95
Lab Number: 9503445-04A	Date Received: 03/30/95
Sample Matrix/Media: WATER	Date Prepared: 04/04/95
Preparation Method: EPA 5030	Date Analyzed: 04/04/95
Method Reference: EPA 8015/8020	Analyst: WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX/Gasoline</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
Gasoline	--	ND	50

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	91	50 - 150

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification:	MW-5	Date Sampled:	03/30/95
Lab Number:	9503445-05A	Date Received:	03/30/95
Sample Matrix/Media:	WATER	Date Prepared:	04/04/95
Preparation Method:	EPA 5030	Date Analyzed:	04/04/95
Method Reference:	EPA 8015/8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX/Gasoline</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
Gasoline	--	ND	50
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>OC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	98	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification:	METHOD BLANK	Date Sampled:	--
Lab Number:	9503445-06A	Date Received:	--
Sample Matrix/Media:	WATER	Date Prepared:	04/04/95
Preparation Method:	EPA 5030	Date Analyzed:	04/04/95
Method Reference:	EPA 8015/8020	Analyst:	WAS

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>BTEX/Gasoline</u>			
Benzene	71-43-2	ND	0.4
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
Gasoline	--	ND	50

<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
a,a,a-Trifluorotoluene	98-08-8	101	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
for
Clayton Environmental Consultants, Inc.
Client Reference: 69009.00
Clayton Project No. 95034.45

Sample Identification:	See Below	Date Received:	03/30/95
Lab Number:	9503445	Date Extracted:	04/05/95
Sample Matrix/Media:	WATER	Date Analyzed:	04/07/95
Extraction Method:	EPA 3510		
Method Reference:	EPA 8015 (Modified)		

Lab Number	Sample Identification	Date Sampled	TPH-D (ug/L)	Method Detection Limit (ug/L)
-01	MW-1	03/30/95	280	50
-02	MW-3	03/30/95	ND	50
-03	MW-2	03/30/95	ND	50
-04	MW-4	03/30/95	ND	50
-05	MW-5	03/30/95	ND	50
-06	METHOD BLANK	--	ND	50

ND: Not detected at or above limit of detection
--: Information not available or not applicable

TPH-D = Extractable petroleum hydrocarbons from C10 to C42 quantitated as diesel.

Quality Assurance Results Summary
Matrix Spike/Matrix Spike Duplicate Results
for
Clayton Project No. 95034.45

Quality Assurance Results Summary
for
Clayton Project No. 95034.45

Clayton Lab Number: 9503445-LCS
Ext./Prep. Method: EPA3510
Date: 04/05/95
Analyst: HYT
Std. Source: E950330-01W
Sample Matrix/Media: WATER

Analytical Method: EPA8015
Instrument ID: 02893
Date: 04/07/95
Time: 14:37
Analyst: FAK
Units: UG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
DIESEL	ND	1,000	1,110	111	1,110	111	111	56	137	0.0	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 95034.45

Clayton Lab Number: 9503440-02B
Ext./Prep. Method: EPA 5030
Date: 04/04/95
Analyst: WAS
Std. Source: V950301-02W
Sample Matrix/Media: WATER

Analytical Method: EPA8015_8020
Instrument ID: 05587
Date: 04/04/95
Time: 11:05
Analyst: WAS
Units: UG/L

Analyte		Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
BENZENE	(PID)	ND	10.2	11.1	109	10.4	102	105	81	118	6.5	20
ETHYLBENZENE	(PID)	ND	8.67	9.29	107	8.96	103	105	81	114	3.6	20
GASOLINE	(FID)	ND	500	534	107	511	102	105	80	150	4.4	25
TOLUENE	(PID)	ND	42.2	45.5	108	43.3	103	105	84	118	5.0	20
TOTAL XYLENE	(PID)	ND	48.9	53.5	109	50.3	103	106	85	115	6.2	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 95034.45

Clayton Lab Number: 9504041-LCS
Ext./Prep. Method: EPA 3510
Date: 04/04/95
Analyst: HYT
Std. Source: G950123-02W
Sample Matrix/Media: WATER

Analytical Method: EPA8310
Instrument ID: 07478
Date: 04/05/95
Time: 14:43
Analyst: ASC
Units: UG/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
(A) Naphthalene	ND	2.00	1.45	72	1.50	75	74	50	140	3.3	25
(B) Acenaphthene	ND	2.00	1.58	79	1.69	85	82	50	140	6.7	25
(C) Fluorene	ND	2.00	1.62	81	1.72	86	84	50	140	6.1	25
(D) Phenanthrene	ND	2.00	1.67	83	1.77	89	86	50	140	6.1	25
(E) Anthracene	ND	2.00	1.53	76	1.62	81	79	50	140	5.7	25
(F) Fluoranthene	ND	0.200	0.179	90	0.198	99	94	50	140	10	25
(G) Pyrene	ND	0.200	0.170	85	0.179	90	87	50	140	5.2	25
(H) Benzo(a)anthracene	ND	0.200	0.173	87	0.176	88	87	50	140	1.5	25
(I) Chrysene	ND	0.200	0.177	88	0.186	93	91	50	140	5.1	25
(J) Benzo(b)fluoranthene	ND	0.200	0.174	87	0.181	90	89	50	140	3.5	25
(K) Benzo(k)fluoranthene	ND	0.100	0.0867	87	0.0887	89	88	50	140	2.3	25
(L) Benzo(a)pyrene	ND	0.200	0.179	90	0.181	91	90	50	140	1.2	25
(M) Dibenzo(a,h)anthracene	ND	0.200	0.186	93	0.188	94	94	50	140	1.1	25
(N) Benzo(g,h,i)perylene	ND	0.200	0.186	93	0.190	95	94	50	140	2.1	25
(O) Indeno(1,2,3-c,d)pyrene	ND	0.200	0.181	91	0.184	92	91	50	140	1.4	25
(P) Acenaphthylene	ND	2.00	1.43	72	1.58	79	75	50	140	9.8	25

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only Page 1 of 2

Project No. _____

Batch No. **9503445**

Ind. Code _____ W.P. _____

Date Logged In 3/31 By AB

REPORT RESULTS TO	Name <u>D. DASTMALCHI</u>		Title _____		Purchase Order No. _____		Client Job No. <u>69009.00</u>																																																																																																																															
	Company <u>CEC</u>		Dept. _____		Name _____		Company <u>B of A</u>																																																																																																																															
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	City, State, Zip _____		Telephone No. _____		City, State, Zip _____		Dept. _____																																																																																																																															
Date Results Req. <u>STANDARD</u>		Rush Charges Authorized? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Phone / Fax Results <input type="checkbox"/> <input type="checkbox"/>		Samples are: (check if applicable)																																																																																																																																
Special Instructions: (method, limit of detection, etc.) _____				<input type="checkbox"/> Drinking Water		<input type="checkbox"/> Collected in the State of New York																																																																																																																																
* Explanation of Preservative: <u>P-Hcl</u>				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="8">ANALYSIS REQUESTED</th> <th rowspan="2">FOR LAB USE ONLY</th> </tr> <tr> <td colspan="8">(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added.)</td> </tr> <tr> <td colspan="8" style="text-align:center;"> <div style="display: flex; justify-content: space-around;"> TPHG/BTEX DIBPZ TDS 8310-PNA </div> </td> <td></td> </tr> <tr> <td>MW-1</td> <td>3-30-95</td> <td>WATER</td> <td>40ML</td> <td>2</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>UA-B</td> </tr> <tr> <td>MW-1</td> <td></td> <td></td> <td>1 LITER</td> <td>2</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>CIC D</td> </tr> <tr> <td>MW-1</td> <td></td> <td></td> <td>120 ML</td> <td>1</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>OIE</td> </tr> <tr> <td>MW-3</td> <td></td> <td></td> <td>40 ML</td> <td>2</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>U2A-B</td> </tr> <tr> <td>MW-3</td> <td></td> <td></td> <td>1 LITER</td> <td>2</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>CD</td> </tr> <tr> <td>MW-3</td> <td></td> <td></td> <td>120 ML</td> <td>1</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>E</td> </tr> <tr> <td>MW-2</td> <td></td> <td></td> <td>40 ML</td> <td>2</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Q3A-B</td> </tr> <tr> <td>MW-2</td> <td></td> <td></td> <td>1 LITER</td> <td>2</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>CD</td> </tr> <tr> <td>MW-2</td> <td></td> <td></td> <td>120 ML</td> <td>1</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>E</td> </tr> <tr> <td>MW-2</td> <td><u>3-30-95</u></td> <td><u>WATER</u></td> <td><u>1 LITER</u></td> <td><u>1</u></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>UA-F</td> </tr> </table>					ANALYSIS REQUESTED								FOR LAB USE ONLY	(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added.)								<div style="display: flex; justify-content: space-around;"> TPHG/BTEX DIBPZ TDS 8310-PNA </div>									MW-1	3-30-95	WATER	40ML	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UA-B	MW-1			1 LITER	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CIC D	MW-1			120 ML	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OIE	MW-3			40 ML	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U2A-B	MW-3			1 LITER	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CD	MW-3			120 ML	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	MW-2			40 ML	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Q3A-B	MW-2			1 LITER	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CD	MW-2			120 ML	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	MW-2	<u>3-30-95</u>	<u>WATER</u>	<u>1 LITER</u>	<u>1</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UA-F
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MW-2	<u>3-30-95</u>	<u>WATER</u>	<u>1 LITER</u>	<u>1</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UA-F																																																																																																																													
CHAIN OF CUSTODY	Collected by: <u>M. Springman</u> (print)				Collector's Signature: <u>M. Springman</u>																																																																																																																																	
	Relinquished by: <u>M. Springman</u>		Date/Time: <u>3-30-95 5:30PM</u>		Received by: _____		Date/Time: _____																																																																																																																															
	Relinquished by: _____		Date/Time: _____		Received at Lab by: <u>Carol Hemminger</u>		Date/Time: <u>3/30/95 5:30</u>																																																																																																																															
	Method of Shipment: _____				Sample Condition Upon Receipt: <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain)																																																																																																																																	
Authorized by: _____ Date: _____								(Client Signature <u>Must</u> Accompany Request)																																																																																																																														

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

- | | | | |
|---|---|--|--|
| 22345 Roethel Drive
Novi, MI 48375
(810) 344-1770 | Raritan Center
160 Fieldcrest Ave.
Edison, NJ 08837
(908) 225-6040 | 400 Chastain Center Blvd., N.W.
Suite 490
Kennesaw, GA 30144
(404) 499-7500 | 1252 Quarry Lane
Pleasanton, CA 94566
(510) 426-2657 |
|---|---|--|--|

- DISTRIBUTION:
- WHITE - Clayton Laboratory
 - YELLOW - Clayton Accounting
 - PINK - Client Retains

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Clayton Use Only Page 2 of 2
 Project No. _____
 Batch No. **9503445**
 Ind. Code _____ W.P. _____
 Date Logged In 3/31 By RB

REPORT RESULTS TO	Name <u>D. DASTMALCHI</u> Title _____		Purchase Order No. _____			
	Company <u>CEC</u> Dept. _____		Client Job No. <u>69009.00</u>			
	Mailing Address _____		Name _____			
	City, State, Zip _____		Company <u>B of A</u> Dept. _____			
Telephone No. _____		Telefax No. _____		Address _____		
Date Results Req. <u>STANDARD/STAT</u>		Rush Charges Authorized? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Phone / Fax Results <input type="checkbox"/> <input type="checkbox"/>		
Special Instructions: (method, limit of detection, etc.)		Samples are: (check if applicable) <input type="checkbox"/> Drinking Water <input type="checkbox"/> Collected in the State of New York		ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added.)		
* Explanation of Preservative: <u>P: Hcl</u>						
CLIENT SAMPLE IDENTIFICATION		DATE SAMPLED	MATRIX/MEDIA	AIR VOLUME (specify units)	Number of Containers	FOR LAB USE ONLY
<u>MW-4</u>		<u>3-30-95</u>	<u>WATER</u>	<u>40 ML</u>	<u>2</u>	<u>04A-B</u>
<u>MW-4</u>				<u>1 LITER</u>	<u>2</u>	<u>CD</u>
<u>MW-4</u>				<u>120 ML</u>	<u>1</u>	<u>E</u>
<u>MW-5</u>				<u>40 ML</u>	<u>2</u>	<u>04A-B</u>
<u>MW-5</u>				<u>1 LITER</u>	<u>2</u>	<u>CD</u>
<u>MW-5</u>				<u>120 ML</u>	<u>1</u>	<u>E</u>
<u>TRIP BLANK</u>		<u>3-30-95</u>	<u>WATER</u>	<u>40 ML</u>		<u>04</u>
CHAIN OF CUSTODY		Collected by: <u>M. Springman</u> (print)		Collector's Signature: <u>M. Springman</u>		
		Relinquished by: <u>M. Springman</u>		Received by: _____		Date/Time _____
		Relinquished by: _____		Received at Lab by: <u>Carol Hammerberg</u>		Date/Time <u>3/30/95 5:30</u>
		Method of Shipment: _____		Sample Condition Upon Receipt: <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Other (explain)		
Authorized by: _____		Date _____		* D.O NOT RECEIVE		
(Client Signature <u>Must</u> Accompany Request)						

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

- | | | | |
|---|---|--|--|
| 22345 Roethel Drive
Novi, MI 48375
(810) 344-1770 | Raritan Center
160 Fieldcrest Ave.
Edison, NJ 08837
(908) 225-6040 | 400 Chastain Center Blvd., N.W.
Suite 490
Kennesaw, GA 30144
(404) 499-7500 | 1252 Quarry Lane
Pleasanton, CA 94566
(510) 426-2657 |
|---|---|--|--|

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