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

PROTECTION
98 DEC -5 PM 12: 48

Clayton ENVIRONMENTAL CONSULTANTS

December 4, 1996

NOV 630

Mr. Barney Chan ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502

Clayton Project No. 70-97066.00.000

Subject: Analytical Results and Sketch for the Recent UST Removal at 630 - 29

Street, Oakland, California

Dear Mr. Chan:

As you requested during our December 4, 1996, telephone conversation, a copy of the analytical report for the recent UST removal at the above-referenced site is attached. Sketches showing the tank layout and sample locations are also attached.

If you have any questions, please contact me at (510) 426-2629.

Sincerely,

D. Edward MacDaniel Project Geologist

DEM/

Attachments

K:\EMR\PROJECTS\P97066\97066L00.WPD

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



November 27, 1996

Mr. Ed MacDaniel CLAYTON ENVIRONMENTAL CONS. 1252 Quarry Lane Pleasanton, CA 94566

> PARTIAL REPORT Client Ref.: 70-97066.00.000 Clayton Project No.: 96112.87

Dear Mr. MacDaniel:

Attached is our analytical laboratory report for the samples received on November 21, 1996. Results for Comp. SP-1 thru SP-8 will be forwarded to you upon completion. 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 December 27, 1996, 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/tjb

Attachments

Page 2 of 10

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-1

a,a,a-Trifluorotoluene

Lab Number:

9611287-01A

Sample Matrix/Media:

SOIL

Preparation Method: EPA 5030 Method Reference: EPA 8015/ Method Reference:

EPA 8015/8020

Date Sampled:

11/21/96

Date Received: Date Prepared:

11/21/96 11/21/96

50 - 150

Date Analyzed:

D

11/22/96

Analyst:

 \mathtt{DL}

	2111 0013, 0020		inion, bo.	22
Analyte		CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline				
Benzene		71-43-2	1.2	0.05
Ethylbenzene		100-41-4	12	0.05
Toluene		108-88-3	100	0.05
o-Xylene		95-47-6	20	0.05
p,m-Xylenes			46	0.05
Gasoline			1800	3
MTBE			ND	50
<u>Surrogates</u>			Recovery (%)	QC Limits (%)

98-08-8

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation. D = Surrogate diluted out.

Page 3 of 10

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-2

Lab Number:

9611287-02A

Sample Matrix/Media:

SOIL

Preparation Method: EPA 5030

Method Reference:

EPA 8015/8020

Date Sampled:

11/21/96

Date Prepared: 11/21/96

Date Received: 11/21/96

Date Analyzed:

11/22/96

Analyst:	\mathtt{DL}
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	-		Limit of
Analyte	CAS #	Concentration (mg/kg)	Detection (mg/kg)
BTEX/Gasoline			
Benzene	71-43-2	0.39	0.05
Ethylbenzene	100-41-4	0.28	0.05
Toluene	108-88-3	0.70	0.05
o-Xylene	95-47-6	0.41	0.05
p,m-Xylenes		0.83	0.05
Gasoline		70	3
MTBE		ND	50
Surrogates		Recovery (%)	QC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.

of 10 Page 4

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-3

Lab Number:

9611287-03A

Sample Matrix/Media: SOIL

Preparation Method: EPA 5030
Method Reference: EPA 8015/8020

Date Sampled:

11/21/96 Date Received: 11/21/96

Date Prepared:

11/21/96

Date Analyzed: 11/22/96

DLAnalyst:

Method Reference.	LFA 0013/0020		muryse.	
Analyte		CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline				
Benzene		71-43-2	2.1	0.05
Ethylbenzene		100-41-4	5.3	0.05
Toluene		108-88-3	11	0.05
o-Xylene		95-47-6	9.4	0.05
p,m-Xylenes			20	0.05
Gasoline			290	3
MTBE			ND	50
<u>Surrogates</u>			Recovery (%)	OC Limits (%)
a,a,a-Trifluorotoluer	ne	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.

Page 5 of 10

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-4

Lab Number:

9611287-04A

Sample Matrix/Media:

SOIL

Preparation Method: EPA 5030 Method Reference: EPA 8015/8020

Date Sampled:

11/21/96

Date Received: 11/21/96 Date Prepared: 11/21/96

Date Analyzed: 11/22/96

Analvst: DL

method kererence.	LFA 0013/0020		MICHAGO.	DB
Analyte		CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline				
Benzene		71-43-2	16	0.5
Ethylbenzene		100-41-4	29	0.5
Toluene		108-88-3	380	0.5
o-Xylene		95-47-6	48	0.5
p,m-Xylenes			110	0.5
Gasoline			4300	30
MTBE			ND	1000
<u>Surrogates</u>			Recovery (%)	QC Limits (%)
a,a,a-Trifluorotolue	ene	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.

Page 6 of 10

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-5

Lab Number:

9611287-05A

Sample Matrix/Media:

SOIL

Preparation Method:

EPA 5030

Method Reference:

EPA 8015/8020

Date Sampled:

11/21/96

Date Received: Date Prepared:

11/21/96 11/21/96

Date Analyzed:

11/22/96

nalyst	:	\mathtt{DL}
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mororone.	2111 0013, 0020			22
Analyte	- 	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline				
Benzene		71-43-2	0.44	0.05
Ethylbenzene		100-41-4	1.1	0.05
Toluene		108-88-3	2.8	0.05
o-Xylene		95-47-6	1.5	0.05
p,m-Xylenes			3.8	0.05
Gasoline			220	3
MTBE			ND	50
Surrogates			Recovery (%)	OC Limits (%)
a,a,a-Trifluorotoluer	ne	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.

of 10 Page 7

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-6

Lab Number:

9611287-06A

Sample Matrix/Media:

Preparation Method:

SOIL EPA 5030

Method Reference:

EPA 8015/8020

Date Sampled: Date Received:

11/21/96 11/21/96

Date Prepared:

11/21/96

Date Analyzed:

11/22/96

Analyst:	\mathtt{DL}
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Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene	71-43-2	4.2	0.05
Ethylbenzene	100-41-4	19	0.05
Toluene	108-88-3	2.4	0.05
o-Xylene	95-47-6	1.3	0.05
p,m-Xylenes	- -	59	0.05
Gasoline		2500	3
MTBE	- -	ND	1000
Surrogates		Recovery (%)	OC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.



Page 2 of 9

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-1

Lab Number:

9611287-01A

Sample Matrix/Media:

SOIL

Preparation Method: Method Reference:

EPA 5030

EPA 8015/8020

Date Sampled:

11/21/96

Date Received: Date Prepared:

11/21/96 11/21/96

Date Analyzed:

11/22/96

Analyst:

DL

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene	71-43-2	1.2	0.05
Ethylbenzene	100-41-4	12	0.05
Toluene	108-88-3	100	0.05
o-Xylene	95-47-6	20	0.05
p,m-Xylenes		46	0.05
Gasoline		1800	3
MTBE		ND	50
<u>Surrogates</u>		Recovery (%)	QC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.



Page 3 of 9

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-2

a,a,a-Trifluorotoluene

Lab Number:

<u>Surrogates</u>

9611287-02A

Sample Matrix/Media:

SOIL

Preparation Method: EPA 5030 Method Reference:

EPA 8015/8020

Date Sampled:

11/21/96

Date Received: 11/21/96 Date Prepared: 11/21/96

50 - 150

Date Analyzed:

11/22/96

Analyst:

D

DL

Recovery (%) OC Limits (%)

	·	•		Limit of Detection (mg/kg)
Analyte	¥	CAS #	Concentration (mg/kg)	
BTEX/Gasoline				
Benzene		71-43-2	0.39	0.05
Ethylbenzene	<i>0</i>	100-41-4	0.28	0.05
Toluene	:	108-88-3	0.70	0.05
၁-Xylene		95-4 7-6	0.41	0. 0 5
p,m-Xylenes	•		0.83	0.05
Gasoline			70	3
MTBE	•		ND	50

98-08-8

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation. D = Surrogate diluted out.



Page 4 of 9

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-3

9611287-03A

Lab Number:

SOIL

Date Sampled: 11/21/96 Date Received:

11/21/96 11/21/96

Sample Matrix/Media: Preparation Method:

Date Prepared: Date Analyzed:

11/22/96

Method Reference:

EPA 5030

EPA 8015/8020

Analyst: DL

Limit of Concentration Detection Analyte CAS # (mg/kg) (mg/kg) BTEX/Gasoline Benzene 71-43-2 0.05 2.1 Ethylbenzene 100-41-4 5.3 0.05 Toluene 108-88-3 0.05 11 o-Xylene 95-47-6 0.05 9.4 p,m-Xylenes 20 0.05 Gasoline 290 3 MTBE ND 50 <u>Surrogates</u> Recovery (%) OC Limits (名) 50 - 150 a,a,a-Trifluorotoluene 98-08-8 D

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.

Page 5 of 9

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-4

Lab Number:

9611287-04A

Sample Matrix/Media:

SOIL

Preparation Method: EPA 5030

Method Reference:

EPA 8015/8020

11/21/96

Date Received: 11/21/96 Date Prepared: 11/21/96

Date Analyzed: 11/22/96

Analyst: \mathtt{DL}

Date Sampled:

notinou nototonot.	2111 0013,0020		iniary be.	22
Analyte		CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline				
Benzene		71-43-2	16	0.5
Ethylbenzene	1	00-41-4	29	0.5
Toluene	1	08-88-3	380	0.5
o-Xylene		95-47-6	48	0.5
p,m-Xylenes			110	0.5
Gasoline			4300	30
MTBE			ND	1000
<u>Surrogates</u>			Recovery (%)	OC Limits (%)
a,a,a-Trifluorotoluer	ne	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.

Page 6 of 9

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-5

Lab Number:

9611287-05A

Sample Matrix/Media:

Preparation Method: EPA 5030

SOIL

Method Reference:

EPA 8015/8020

Date Sampled:

11/21/96

Date Received: 11/21/96

Date Prepared: Date Analyzed:

11/21/96

11/22/96

Analyst:

DL

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene	71-43-2	0.44	0.05
Ethylbenzene	100-41-4	1.1	0.05
Toluene	108-88-3	2.8	0.05
o-Xylene	95-47-6	1.5	0.05
p,m-Xylenes		3.8	0.05
Gasoline		220	3
MTBE		ND	. 50
Surrogates		Recovery (%)	OC Limits (%)
a,a,a~Trifluorotoluene	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation. D = Surrogate diluted out.

Page 7 of 9

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-6

Lab Number:

9611287-06A

Sample Matrix/Media:

SOIL

Preparation Method:

EPA 5030

Method Reference:

EPA 8015/8020

Date Sampled:

11/21/96

Date Received:

11/21/96

Date Prepared:

11/21/96

Date Analyzed:

11/22/96

Analyst:

DL

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline			
Benzene	71-43-2	4.2	0.05
Ethylbenzene	100-41-4	19	0.05
Toluene	108-88-3	2.4	0.05
o-Xylene	95-47-6	1.3	0.05
p,m-Xylenes		59	0.05
Gasoline		2500	3
MTBE		ND	1000
Surrogates		Recovery (%)	OC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation. D = Surrogate diluted out.

of 9 Page 8

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: S-7

Lab Number:

9611287-07A

Sample Matrix/Media:

SOIL

Preparation Method: Method Reference:

EPA 5030

EPA 8015/8020

Date Sampled:

11/21/96

Date Received:

11/21/96 11/21/96

Date Prepared: Date Analyzed:

11/22/96

	2111 0013, 0020			
Analyte		CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline				
Benzene		71-43-2	0.10	0.05
Ethylbenzene		100-41-4	1.3	0.05
Toluene		108-88-3	0.43	0.05
o-Xylene		95-47-6	ND	0.05
p,m-Xylenes			1.3	0.05
Gasoline			310	3
MTBE		. — —	ND	50
<u>Surrogates</u>			Recovery (%)	OC Limits (%)
a,a,a-Trifluorotolu	ene	98-08-8	D	50 - 150

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

Results are reported on a wet-weight basis, as received.

Note: Detection limits increased due to dilution necessary for quantitation.

Page 9 of 9

Analytical Results

for

Clayton Environmental Consultants, Inc. Client Reference: 70-97066.00.000 Clayton Project No. 96112.87

Sample Identification: METHOD BLANK

Lab Number:

9611287-16A

Sample Matrix/Media:

SOIL

Preparation Method: Method Reference:

EPA 5030

EPA 8015/8020

Date Sampled:

Date Received:

Date Prepared: Date Analyzed:

11/21/96 11/21/96

Analyst:

DL

Analyte	CAS #	Concentration (mg/kg)	Limit of Detection (mg/kg)
BTEX/Gasoline	***		
Benzene	71-43-2	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
Toluene	108-88-3	ND	0.005
o-Xylene	95-47-6	ND	0.005
p,m-Xylenes		ND	0.005
Gasoline		ND	0.3
MTBE		ND	5
<u>Surrogates</u>		Recovery (%)	QC Limits (%)
a,a,a-Trifluorotoluene	98-08-8	103	50 - 150

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

Results are reported on a wet-weight basis, as received.



REQUEST FOR LABORATORY **ANALYTICAL SERVICES**

Lensine Samsage

For Clayton Use Only	Page of	d 1/20
Project No.		
Batch No.	611287	
Ind. Code	W.P.	,,
Date Logged In	Ву	
Client Job	No - 4 - 900 MC	വെ ഒരു

O Name	EdMacDuniel	Title Door	Gerl	oist	Purcha	ase Order	No.			Client	lob No. –	6-97066.	00,000
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Mailing City, St	Address				불음	Compa	ıny					Dept.	
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Telephe □ Telephe	one No. IT	eletax No.				City, S	tate, Zip		ANIALV	SIS REQU	ECTED		
Date Results	Reg.: Rush Charges Authorized?	Phone / Fax Results		s are: i applicable)	Containers	(Enter an	'X' in th	e box bel	ow to indic	ate reques	st; Enter a	a 'P' if Preservativ	e added. *)
Special Instru	uctions: (method, limit of detection,	etc.)	☐ Drinki		ontai					//		///	
* Explanation	n of Preservative:			cted in the of New York	ŏ				S/	//	//		OR LAB
C	LIENT SAMPLE IDENTIFICATION	DATE SAMPLED		AIR VOLUME (specify units)	Number	[#]		$\sum_{i} \hat{\lambda}_{i}$	¥/	//		/ U	SE ONLY
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	Method of Shipment:				Sam	ple Condi	tion Upo	n Receipt	· 「 女 〉	Acceptable	8	Other (expla	airi)
Authorized		Proany Request)	até <u>/ </u>	1-96					-				
Please retui	rn completed form and samples to c		ironmental	Consultants, In	c. labs	listed bel	<u>ow</u> :				DIST	RIBUTION:	

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

 Clayton Laboratory WHITE Clayton Accounting YELLOW -

Client Retains PINK



REQUEST FOR LABORATORY **ANALYTICAL SERVICES**

For Clayton Use Onl	y Page Z of	<u> </u>
Project No.	<u> </u>	-
Batch No.	611287	-
Ind. Code	W.P.	>
Date Logged In	Ву	

	Date Logged In By
Q Name Fd Mac Dance Title Proj Geola 15/	Purchase Order No. Client Job No. \$1,570 LC. 00.00 €
Name FAMAC Dance Title From Street St	
Mailing Address	Name Company Address City State Zin
ம் City, State, Zip	₩ N N Address
	Oity, State, Zip
Date Results Req.: Rush Charges Authorized? Phone / Fax Results Samples are: (check if applicable)	ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added. *)
Special Instructions: (method, limit of detection, etc.)	
☐ Collected in the	
* Explanation of Preservative: State of New York	
	FOR LAB
CLIENT SAMPLE IDENTIFICATION DATE MATRIX/ AIR VOLUM SAMPLED MEDIA (specify unit	
SP-4 11/21/96/501 - 1609 9	
SP-5 1 1 1	
SP-6	111111111111111111111111111111111111111
32-3	
30-8	
Collected by: / / / / / / (print	Collector's Signature:
	Date/Lime
OF THE	Heceived by:
CUSTODY Relinquished by: Date/Time /	Received at Lab by: N.J. Pale/Time 13+7
Method of Shipment:	Sample Condition Upon Receipt: Acceptable Other (explain)
Authorized by:	
(differit Signature Must Accompany Request)	
Please return completed form and samples to one of the Clayton Environmental Consultants,	nc. labs listed below: DISTRIBUTION:

22345 Roethel Drive Raritan Center Novi, MI 48375

(810) 344-1770

160 Fieldcrest Ave. Edison, NJ 08837

(908) 225-6040

400 Chastain Center Blvd., N.W.

(404) 499-7500

Suite 490 Kennesaw, GA 30144

1252 Quarry Lane Pleasanton, CA 94566 (510) 426-2657

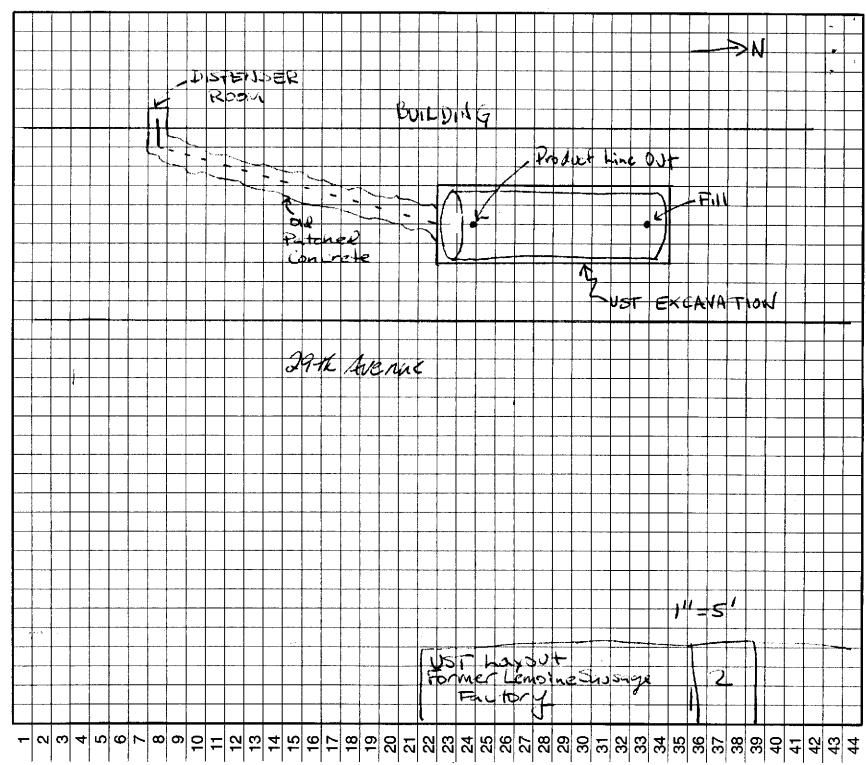
WHITE Clayton Laboratory YELLOW -Clayton Accounting - Client Retains PINK

2/92



Clayton Mittelhauser

SHEET NO OF PROJECT	DATE	ВУ СКО	



Clayton ENVIRONMENTAL CONSULTANTS

Clayton ${\cal M}$ ittelhauser

Q

SHEET NO

		PROJECT Date
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