

RUST ENVIRONMENT & INFRASTRUCTURE

RUST Environment & Infrastructure Inc.
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November 16, 1994

Joseph S. Moran, Esq.
 Assistant General Counsel - Environmental
 American National Can Company - 14C
 8770 West Bryn Mawr Avenue
 Chicago, IL 60631-3542

Post-It* Fax Note	7671	Date	# of pages ▶ 6
To	<i>Barney Chan</i>	From	<i>Ed Alusow</i>
Co./Dept.		Co.	
Phone #		Phone #	
Fax #	<i>510-337-9335</i>	Fax #	

Dear Mr. Moran:

Subject: Post Excavation Sampling Results - Area 4
 Former ANC Facility, Oakland, California

Awaiting full reports

Attached for your review are the laboratory analytical results for post excavation samples collected from the two Area 4 excavations. Samples were collected at 20-foot intervals along the excavation walls in accordance with the approved remedial work plan for Areas 2 and 4. Samples were not collected from the floor of the larger excavation area, adjacent to former building 13, as the bottom of this excavation was 2 to 3 feet below groundwater.

As you know, each sample was analyzed for benzene, toluene, ethylbenzene, xylene (BTEX) and total petroleum hydrocarbons as gasoline (TPHg) by California LUFT methods. Benzene, toluene and TPHg were not detected in any of the 20 samples tested. Ethylbenzene was detected in only one sample (A4A-2) at a concentration of 0.006 ppm and total xylenes were detected only in four of the samples (A4A-1 = 0.006 ppm; A4A-2 = 0.020 ppm; A4A-3 = 0.008 ppm; and A4B-6 = 0.009 ppm).

All analytical results for the post excavation samples were well below soil cleanup levels typically required by the California Regional Water Quality Control Board for similar type excavations. We believe that we have met the stipulation of the Remedial Work Plan to conduct, to the maximum extent feasible, the removal of potential sources of groundwater impact. In order to stabilize the excavation, especially in the vicinity of Alameda Avenue, we intend to begin backfilling the excavations as soon as possible, preferably by November 17, 1994, utilizing clean soil from an off-site source.

Very truly yours,

Edward W. Alusow

Edward W. Alusow
 Senior Project Manager

cc: J. Kessler
 E. Rawlings
 R. Creps
 J. Renauer



Organic Analysis Data Sheet
Total Petroleum Hydrocarbons as Gasoline with BTEX
ITS - Anamatrix Laboratories - (408) 432-8192

Lab Workorder : 9411099
 Matrix : SOIL

Client Project ID : 35195.624
 Units : mg/Kg

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		A4A-11	A4A-12			
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9411099-11	9411099-12	Method Blank	Method Blank	
Benzene	0.0050	ND	ND	ND	ND	
Toluene	0.0050	ND	ND	ND	ND	
Ethylbenzene	0.0050	ND	ND	ND	ND	
Total Xylenes	0.0050	ND	ND	ND	ND	
TPH as Gasoline	0.50	ND	ND	ND	ND	
Surrogate Recovery		97%	103%	100%	107%	
Instrument ID		HP12	HP12	HP4	HP12	
Date Sampled		11/08/94	11/08/94	N/A	N/A	
Date Analyzed		11/10/94	11/10/94	11/09/94	11/10/94	
RLMF		1	1	1	1	
Filename Reference		FPN09911.D	FPN09912.D	BN0901E1.D	BN1001E1.D	

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.
 TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
 BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 53-147%.
 All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 11/14/94
 Analyst Date

Cheryl B... 11/14/94
 Supervisor Date

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Organic Analysis Data Sheet
Total Petroleum Hydrocarbons as Gasoline with BTEX
ITS - Anamatrix Laboratories - (408) 432-8131

Lab Workorder : 9411099
 Matrix : SOIL

Client Project ID : 35195.624
 Units : mg/Kg

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		A4A-6	A4A-7	A4A-8	A4A-9	A4A-10
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9411099-06	9411099-07	9411099-08	9411099-09	9411099-10
Benzene	0.0050	ND	ND	ND	ND	ND
Toluene	0.0050	ND	ND	ND	ND	ND
Ethylbenzene	0.0050	ND	ND	ND	ND	ND
Total Xylenes	0.0050	ND	ND	ND	ND	ND
TPH as Gasoline	0.50	ND	ND	ND	ND	ND
Surrogate Recovery		97%	106%	101%	105%	108%
Instrument ID		HP4	HP4	HP12	HP12	HP12
Date Sampled		11/08/94	11/08/94	11/08/94	11/08/94	11/08/94
Date Analyzed		11/09/94	11/09/94	11/10/94	11/10/94	11/10/94
RLMF		1	1	1	1	1
Filename Reference		FPN09906.D	FPN09907.D	FPN09908.D	FPN09909.D	FPN09910.D

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.
 TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
 BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

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Reggie Dawson 11/14/94
 Analyst Date

Cheryl Balmer 11/14/94
 Supervisor Date

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 PP. 3/6

Organic Analysis Data Sheet
Total Petroleum Hydrocarbons as Gasoline with BTEX
ITS - Anamatrix Laboratories - (408)432-3192

Lab Workorder : 9411099
 Matrix : SOIL

Client Project ID : 35195.624
 Units : mg/Kg

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		A4A-1	A4A-2	A4A-3	A4A-4	A4A-5
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9411099-01	9411099-02	9411099-03	9411099-04	9411099-05
Benzene	0.0050	ND	ND	ND	ND	ND
Toluene	0.0050	ND	ND	ND	ND	ND
Ethylbenzene	0.0050	ND	0.006	ND	ND	ND
Total Xylenes	0.0050	0.006	0.020	0.008	ND	ND
TPH as Gasoline	0.50	ND	ND	ND	ND	ND
Surrogate Recovery		73%	68%	84%	86%	90%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		11/08/94	11/08/94	11/08/94	11/08/94	11/08/94
Date Analyzed		11/09/94	11/09/94	11/09/94	11/09/94	11/09/94
RLMP		1	1	1	1	1
Filename Reference		FPN09901.D	FPN09902.D	FPN09903.D	FPN09904.D	FPN09905.D

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMP) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.
 TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
 BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Dawson 11/14/94
 Analyst Date

Cheryl Balmer 11/14/94
 Supervisor Date

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 11/14/94

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9411079
Matrix : SOIL
Date Sampled : 11/07/94

Project Number : 35195.624
Date Released : 11/14/94

Reporting Limit	Sample I.D.# A4B-6	Sample I.D.# A4B-7	Sample I.D.# A4B-8	Sample I.D.# BN0901E1
COMPOUNDS (mg/Kg)	-06	-07	-08	BLANK
Benzene	0.005	ND	ND	ND
Toluene	0.005	ND	ND	ND
Ethylbenzene	0.005	ND	ND	ND
Total Xylenes	0.005	0.009	ND	ND
TPH as Gasoline	0.5	ND	ND	ND
% Surrogate Recovery	109%	110%	87%	97%
Instrument I.D.	HP21	HP21	HP21	HP21
Date Analyzed	11/09/94	11/09/94	11/09/94	11/09/94
RLMF	1	1	1	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GC/FID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
- RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Peggie Davison 11/16/94
Analyst Date

Cheryl Balaban 11/16/94
Supervisor Date

**ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192**

Anamatrix W.O.: 9411079
Matrix : SOIL
Date Sampled : 11/07/94

Project Number : 35195.624
Date Released : 11/14/94

	Reporting Limit	Sample I.D.# A4B-1	Sample I.D.# A4B-2	Sample I.D.# A4B-3	Sample I.D.# A4B-4	Sample I.D.# A4B-5
COMPOUNDS	(mg/Kg)	-01	-02	-03	-04	-05
Benzene	0.005	ND	ND	ND	ND	ND
Toluene	0.005	ND	ND	ND	ND	ND
Ethylbenzene	0.005	ND	ND	ND	ND	ND
Total Xylenes	0.005	ND	ND	ND	ND	ND
TPH as Gasoline	0.5	ND	ND	ND	ND	ND
* Surrogate Recovery		109%	99%	106%	97%	88%
Instrument I.D.		HP21	HP21	HP21	HP21	HP21
Date Analyzed		11/09/94	11/09/94	11/09/94	11/09/94	11/09/94
RLMF		1	1	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
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Reggie Dawson 11/14/94
Analyst Date

Charles Balmer 11/14/94
Supervisor Date