

3R - 27

REPORTS

DATE:

3/25/1994

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

March 25, 1994

Mr. William C. Olson
Hydrogeologist
Environmental Bureau
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87504

RE: Groundwater Sampling
Amoco Production Company
Jaquez C1/E1 Well Location
San Juan County, New Mexico
(O) Sec 06, T29N, R09W

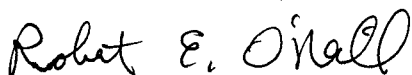
Project No: 92140

Dear Mr. Olson:

Per the instructions of Mr. Buddy Shaw, Amoco Production Company, the attached report on groundwater monitoring at the above referenced well site is being submitted for your review. A copy of this report is also being submitted to Mr. Denny Foust at the Aztec OCD office.

If you have any questions or comments concerning this report, please contact Envirotech at 632-0615.

Respectfully submitted,
ENVIROTECH, INC.



Robert E. O'Neill
Environmental Engineer

Attachment: Report - "Jaquez C1/E1 Wellpoint Installations,
Initial Sample Results"

REO/reo

C1-E1-WO.LET

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

March 18, 1994

Mr. Buddy Shaw
Environmental Coordinator
Amoco Production Company
200 Amoco Court
Farmington, New Mexico 87401

RE: Jaquez C1/E1
Wellpoint Installations
Initial Sampling Results

Project No: 92140

Dear Mr. Shaw:

Per your instructions, wellpoints have been installed on the Jaquez C1/E1 location to monitor groundwater quality after site remediation by excavation was completed by Paul Velasquez. Fifteen (15) wellpoints were installed on the site per the attached site diagram (Sheet #2). Initial sampling for BTEX was done on March 4, 1994 and the results are summarized in Table 1 of this report.

A groundwater contour map has also been prepared for the site and is included (Sheet #3). Sheet #1 shows the original plume estimates as presented in a "Supplemental Pit Assessment" report prepared by Envirotech in October 1993.

We appreciate the opportunity to serve you. If you have any questions or comments or desire additional information, please contact us.

Respectfully submitted,
ENVIROTECH INC.

Robert E. O'Neill

Robert E. O'Neill
Environmental Engineer

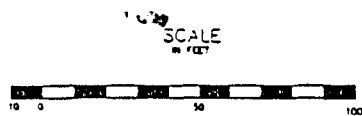
Attachments: Wellpoint Sampling Results
Estimated Plume Diagram
Wellpoint Locations
Groundwater Contours
Laboratory Reports, QA/QC

REO/reo

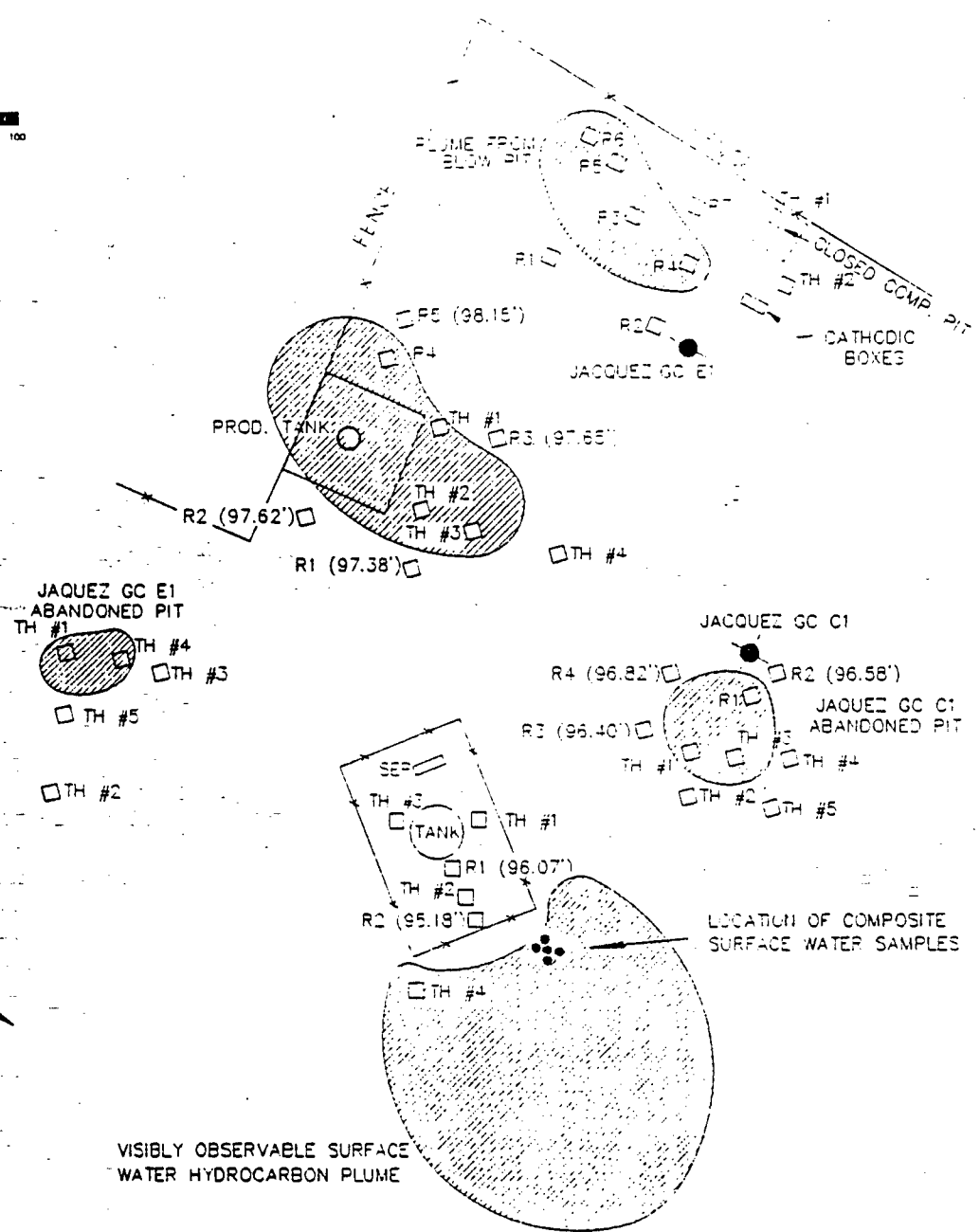
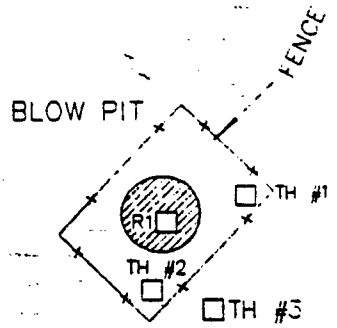
JAQC1/E1.RPT

TABLE 1
JAQUEZ C1/E1
MARCH 4, 1994 SAMPLE RESULTS
AMOCO PRODUCTION COMPANY

WELLPOINT	pH	CONDUCT. umhos/cm	BENZENE ug/L	TOLUENE ug/L	E-BENZENE ug/L	T-XYLENE ug/L
#1	7.6	900	ND	0.8	ND	1.3
#2	7.1	300	ND	0.7	ND	0.6
#3	7.5	300	ND	0.5	ND	0.6
#4	7.2	400	ND	1.4	ND	2.0
#5	7.5	400	ND	ND	ND	ND
#6	7.3	400	ND	0.7	ND	ND
#7	7.5	500	2.6	0.8	0.9	700.0
#8	7.3	400	ND	ND	ND	0.8
#9	7.4	2100	1.2	0.7	0.4	20.0
#10	7.2	500	0.7	ND	ND	151.0
#11	7.4	600	ND	ND	ND	0.7
#12	7.4	300	ND	ND	ND	ND
#13	7.5	500	ND	ND	ND	1.1
#14	7.4	400	ND	0.9	1.6	19.7
#15	7.5	400	ND	ND	0.3	0.4



DIRECTION OF GROUNDWATER
FLOW ON 9/30/93



LEGEND

- TH #2 --- PREVIOUS TEST HOLE
- R1 --- TEST HOLE AND GROUNDWATER ELEVATION ON 9-30-93.
- R2 --- TEST HOLE, NOT SURVEYED
- WELL HEAD
- SUSPECTED LATERAL EXTENT OF CONTAMINATION

SITE DIAGRAM
AMOCO PRODUCTION CO
JAQUEZ C1/E1 LOCATION
(O) 06-T29N-R09W

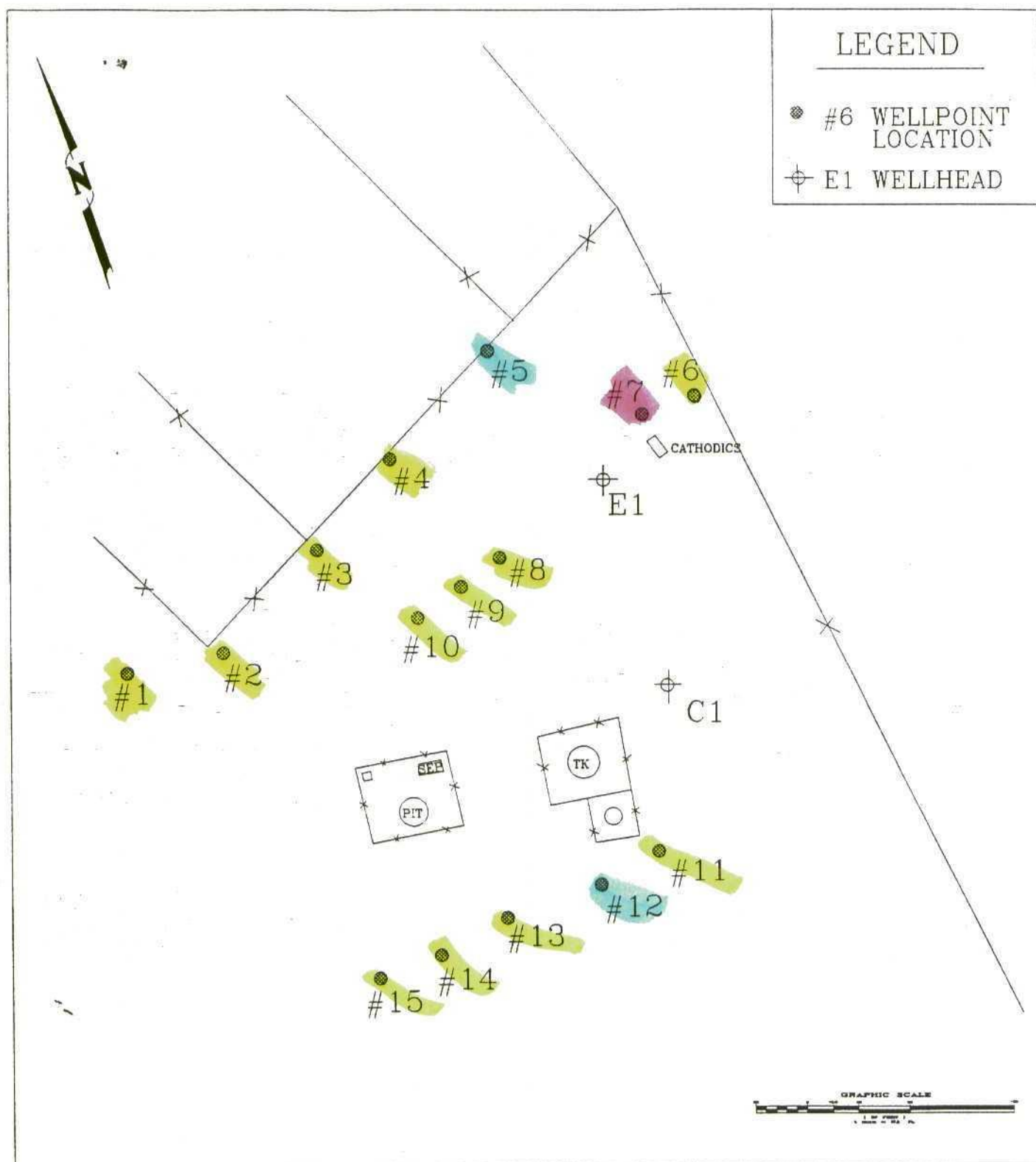
PROJECT NO. 92140

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0616

REV BY: RMY
REV DATE: 10/93
SURVEYED: 9/30/93
DATE DRAWN: 3-26-93
PROJECT MGR: RMY

SHEET # 1



AMOCO PRODUCTION
COMPANY
JAQUEZ C1/E1
(O) 06-T29N-R09W
PROJECT #92140

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE (505) 632-0615

WELLPOINT
LOCATIONS

SHEET #2	DRWN: 3/94
P.M: REO	

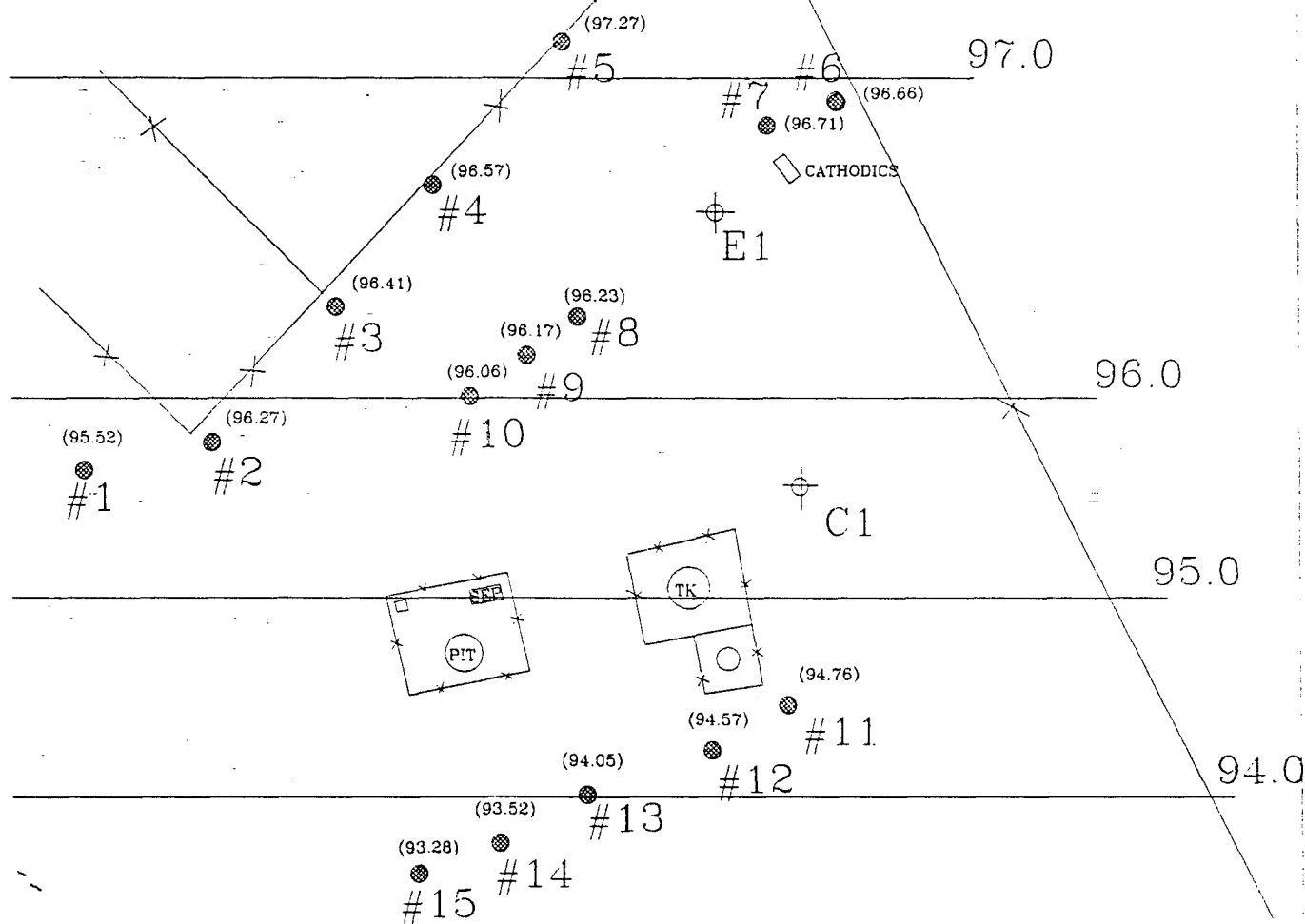
LEGEND

● #6 WELLPOINT LOCATION

⊕ E1 WELLHEAD

(96.66) GROUNDWATER ELEVATION

(WELLHEAD E1 = 100.00)



GRAPHIC SCALE
1" = 100'

CONTOURS.DWG

AMOCO PRODUCTION
COMPANY

JAQUEZ C1/E1

(O) 06-T29N-R09W

PROJECT #92140

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS

5796 U.S. HIGHWAY 64-3014

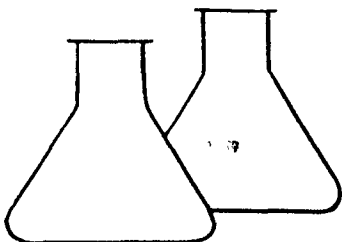
FARMINGTON, NEW MEXICO 87401

PHONE (505) 632-0615

GROUNDWATER
CONTOURS

SHEET: #3 DRWN: 3/94

P.M: REO



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #1	Date Reported:	03-07-94
Laboratory Number:	6949	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl & Cool	Date Analyzed:	03-07-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.8	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	0.7	0.4
o-Xylene	0.6	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	94 %
	Bromofluorobenzene	95 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

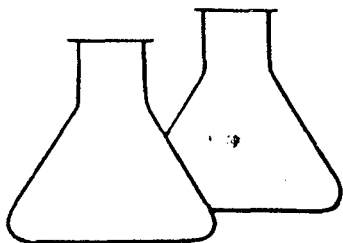
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1 / E1

Devin L. Jaquez
Analyst

Maris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #2	Date Reported:	03-07-94
Laboratory Number:	6950	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl & Cool	Date Analyzed:	03-07-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.7	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	0.6	0.4
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	97 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

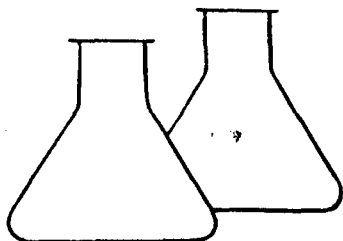
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1 / E1


Analyst


Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #3	Date Reported:	03-07-94
Laboratory Number:	6951	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl & Cool	Date Analyzed:	03-07-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.5	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	0.6	0.4
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	99 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

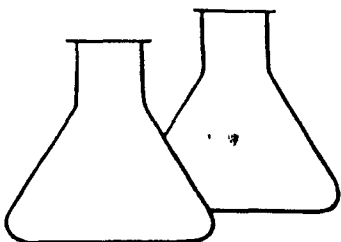
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1 / E1

Kevin L. Jaquez
Analyst

Maris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #4	Date Reported:	03-07-94
Laboratory Number:	6952	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl & Cool	Date Analyzed:	03-07-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	1.4	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	1.8	0.4
o-Xylene	0.2	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	99 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

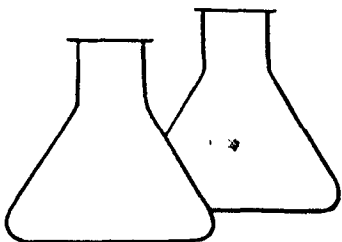
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1 / E1

Dennis L. Jaquez
Analyst

Marisa D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #5	Date Reported:	03-08-94
Laboratory Number:	6953	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.3
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	99 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

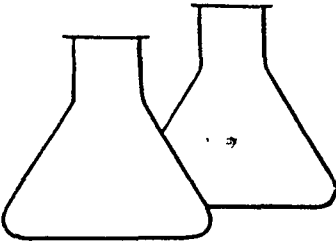
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1

Dennis L. Jaquez
Analyst

Maris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #6	Date Reported:	03-08-94
Laboratory Number:	6954	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.7	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.3
o-Xylene	ND	0.2

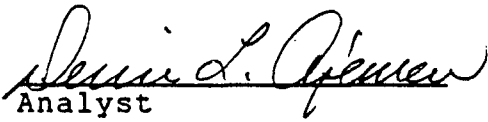
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	98 %

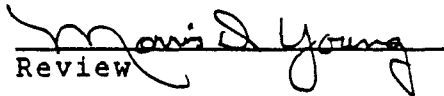
Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

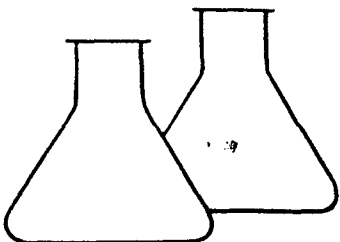
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1


Analyst


Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #7	Date Reported:	03-08-94
Laboratory Number:	6955	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	2.6	0.2
Toluene	0.8	0.6
Ethylbenzene	0.9	0.2
p,m-Xylene	610	0.3
o-Xylene	90	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	99 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

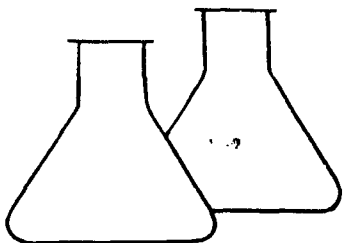
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1

Kevin L. Jaquez
Analyst

Morris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #8	Date Reported:	03-08-94
Laboratory Number:	6956	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	0.8	0.3
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	98 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

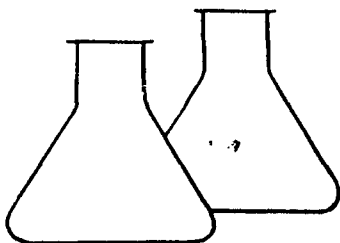
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1

Denise L. Jaquez
Analyst

Margaret D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #9	Date Reported:	03-08-94
Laboratory Number:	6957	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	1.2	0.2
Toluene	0.7	0.6
Ethylbenzene	0.4	0.2
p,m-Xylene	19.3	0.3
o-Xylene	0.7	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	100 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

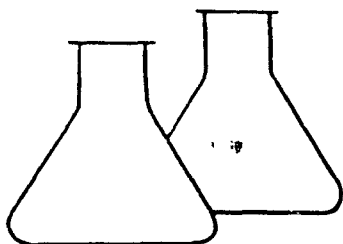
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Comments: Jaquez C1/E1

Kevin L. Jaquez
Analyst

Morris D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #10	Date Reported:	03-08-94
Laboratory Number:	6958	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.7	0.2
Toluene	ND	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	151	0.3
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	100 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

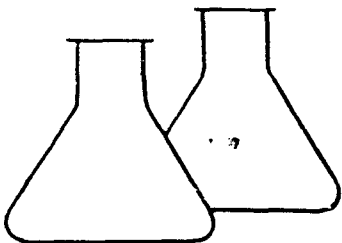
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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Comments: Jaquez C1/E1

Dennis L. Jensen
Analyst

Mavis D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #11	Date Reported:	03-08-94
Laboratory Number:	6959	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	0.5	0.3
o-Xylene	0.2	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	97 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

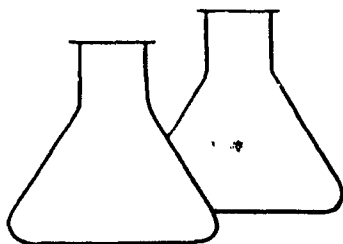
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ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1

Kevin L. Jaquez
Analyst

Morris D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #12	Date Reported:	03-08-94
Laboratory Number:	6960	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.3
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	100 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

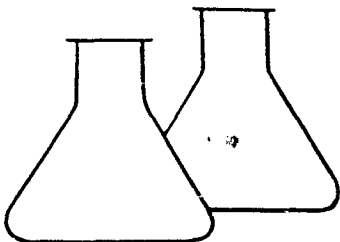
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1

Dennis L. Jaquez
Analyst

Morris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #13	Date Reported:	03-08-94
Laboratory Number:	6961	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	0.8	0.3
o-Xylene	0.3	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	100 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

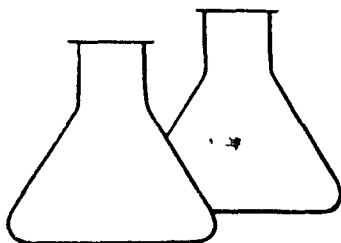
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1

Kevin L. Jensen
Analyst

Maris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #14	Date Reported:	03-08-94
Laboratory Number:	6962	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.9	0.6
Ethylbenzene	1.6	0.2
p,m-Xylene	10.4	0.3
o-Xylene	9.3	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	101 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

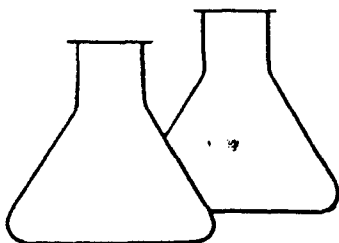
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1

Kevin L. Jensen
Analyst

Mavis D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	WP #15	Date Reported:	03-08-94
Laboratory Number:	6963	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Preservative:	HgCl and Cool	Date Analyzed:	03-07-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.6
Ethylbenzene	0.3	0.2
p,m-Xylene	0.4	0.3
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	99 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Jaquez C1/E1

Kevin L. Jaquez
Analyst

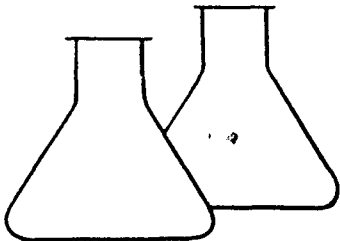
Marisa D. Young
Review

ENVIROTECH LABORATORIES

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FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	03-07-94
Laboratory Number:	0307am.blk	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	03-07-94
Condition:	NA	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.4
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	97 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

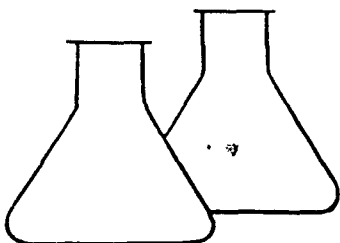
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Steven L. Grewar
Analyst

Marin D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	03-08-94
Laboratory Number:	0307PM.BLK	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	03-07-94
Condition:	NA	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.3
o-Xylene	ND	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	99 %

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

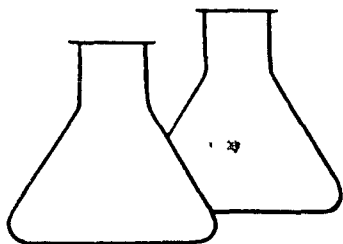
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Givner
Analyst

Marisa D. Young
Review



ENVIROTECH LABS

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**** QUALITY ASSURANCE EPA METHOD 8020**
MATRIX SPIKE - AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Sample Spike	Date Reported:	03-07-94
Laboratory Number:	6948-S-BTEX	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Analysis Requested:	BTEX	Date Analyzed:	03-07-94
Condition:	NA		

Parameter	Sample Result (ug/L)	Spike Added (ug/L)	Spiked Sample Result (ug/L)	Det. Limit (ug/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Benzene	ND	20.0	19.5	0.2	97	39-150
Toluene	0.5	20.0	19.6	0.4	96	46-148
Ethylbenzene	ND	20.0	19.5	0.2	97	32-160
p,m-Xylene	0.6	20.0	20.0	0.4	97	46-148
o-Xylene	0.5	20.0	20.3	0.2	99	46-148

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

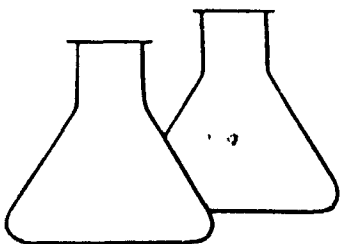
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Devin L. Cramer
Analyst

Monica D. Young
Review



ENVIROTECH LABS

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** QUALITY ASSURANCE EPA METHOD 8020
MATRIX SPIKE - AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Sample Spike	Date Reported:	03-08-94
Laboratory Number:	6953-S-BTEX	Date Sampled:	03-04-94
Sample Matrix:	Water	Date Received:	03-04-94
Analysis Requested:	BTEX	Date Analyzed:	03-07-94
Condition:	NA		

Parameter	Sample Result (ug/L)	Spike Added (ug/L)	Spiked Sample Result (ug/L)	Det. Limit (ug/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Benzene	ND	20.0	18.5	0.2	92	39-150
Toluene	ND	20.0	20.1	0.6	99	46-148
Ethylbenzene	ND	20.0	19.5	0.2	97	32-160
p,m-Xylene	ND	20.0	19.4	0.3	96	46-148
o-Xylene	ND	20.0	19.2	0.2	96	46-148

Method: Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

David L. Jensen
Analyst

Morris Young
Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS									
A1100C # 92140		JAQUEZ C1/E1											
Sampler: (Signature)				Chain of Custody Tape No.		No. of Containers		Remarks		Date		Time	
Sample No./ Identification		Sample Date		Sample Time		Lab Number		Sample Matrix					
WP # 1	3-4-94	1100	6949	WATER									
WP # 2	3-4-94	1120	6950	"									
WP # 3	3-4-94	1130	6951	"									
WP # 4	3-4-94	1140	6952	"									
WP # 5	3-4-94	1150	6953	"									
WP # 6	3-4-94	1205	6954	"									
WP # 7	3-4-94	1220	6955	"									
WP # 8	3-4-94	1230	6956	"									
WP # 9	3-4-94	1240	6957	"									
Relinquished by: (Signature)				Date		Time		Received by: (Signature)		Date		Time	
R. E. O'Neil				3-4-94		1438		R. E. O'Neil		3-4-94		1438	
Relinquished by: (Signature)				Date		Time		Received by: (Signature)		Date		Time	
Relinquished by: (Signature)				Date		Time		Received by: (Signature)		Date		Time	

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS												
Amcco # 92140		Jaquez CI/EI														
Sampler: (Signature)		Chain of Custody Tape No.		No. of Containers										Remarks		
R. E. Ornel																
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix												
WP #10	3-4-94	1250	6958	WATER	2	✓										
WP #11	3-4-94	1300	6959	"	2	✓										
WP #12	3-4-94	1310	6960	"	2	✓										
WP #13	3-4-94	1315	6961	"	2	✓										
WP #14	3-4-94	1320	6962	"	2	✓										
WP #15	3-4-94	1330	6963	"	2	✓										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time						
R. E. Ornel		3-4-94		1440		R. E. Ornel		3-4-94		1440						
Relinquished by: (Signature)						Received by: (Signature)										
Relinquished by: (Signature)						Received by: (Signature)										

ENVIROTECH INC.
 5796 U.S. Highway 64-3014
 Farmington, New Mexico 87401
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