

3R - 378

REPORTS

DATE:

FEB. 2001

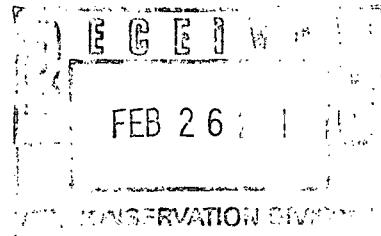
378

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

February 22, 2001

Mr. William C. Olson, Hydrologist
New Mexico Oil Conservation Division-NMOCD
Environmental Bureau
1220 St. Francis Drive
Santa Fe, New Mexico 87505



**Re: BP Amoco (formerly Amoco Production Company)
Groundwater Monitoring Report
McCoy GC A # 1A, Unit F, Sec. 18, T31N, R10W, NMPPM
San Juan County, New Mexico**

Dear Mr. Olson:

BP Amoco has retained Blagg Engineering, Inc. to conduct environmental monitoring of groundwater at the McCoy GC A # 1A well site. The attached report discloses the findings from a 1992 site assessment, the 1993 pit closure activities, the 1996 monitor well sampling, and the 2000 monitor well general water quality sampling. No permanent closure is requested at this time.

If you have any questions concerning this document, please contact either myself or Jeffrey C. Blagg at the address or phone number listed above. Thank you for your cooperation and assistance.

Respectfully submitted:
Blagg Engineering, Inc.

Nelson J. Velez
Staff Geologist

cc: Mr. Denny Foust, Environmental Geologist, NMOCD District III Office, Aztec, NM
Mr. Buddy Shaw, Environmental Coordinator, BP Amoco, Farmington, NM (without lab documents)

BP AMOCO
McCOY GC A #1A - Separator pit
Se/4 Nw/4 Sec. 18, T31N, R10W

Site Assessment Date:

May 12, '92

Pit Closure Dates:

Jul. 26, '93, Aug. 9 & 30, '93, Sept. 10 & 22, '93

Monitor Well Installation Dates:

Jun. 13, '96

Pit Closure Information:

Pit closure for the separator pit was conducted by Envirotech, Inc. in July through September, 1993 (*Figure 1*). The initial testing of the separator pit (July 26, 1993) presents BTEX (benzene, toluene, ethylbenzene, and total xylenes) values below New Mexico Water Quality Control Commission (NMWQCC) allowable concentration for groundwater. However, test holes advanced in the suspected groundwater gradient direction(s) (*designated T 1 and T 2*) revealed benzene or total xylenes exceeded NMWQCC standards. Based on this information, BP Amoco proceeded with aggressive cleanup with what is referred to as "trench remediation method or TRM", in which a series of trenches is advanced, exposing the groundwater to the atmosphere for accelerated release of the volatile hydrocarbons encountered. In addition, the groundwater is also pumped and disposed via water hauling trucks to an approve facility. After several removals and recharge of the groundwater, the pit and trenches were sampled for BTEX on August 9, 1993. The laboratory analysis revealed BTEX values for the pit were again below the NMWQCC standards, but exceeded for benzene in two (2) of the three (3) trenches [named the east and center (ctr.) trench]. Based on the second sampling event, TRM was expanded with another seven (7) trenches. It is assumed that water disposal was conducted within four (4) of the trenches based on subsequent samples collected after their initial sampling on August 30, 1993. *Figure 1* displays the approximate pit area as well as Blagg Engineering, Inc.'s (BEI) best interpretation of the test hole locations and the trenching layout, *please to note that the information and/or diagrams presented within the pit closure documents do not correlate to the exact locations illustrated in the schematic due to conflicting data from Envirotech, Inc.'s field notes*. The following summary table discloses all of the BTEX results from the remedial effort during the pit closure activities.

GW Sampling ID	Sample Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
PIT @ 5 ft.	7/26/93	1.3	3.3	3.6	135.4
T 1 @ 5 ft.	7/26/93	14.0	1.6	1.2	3.7
T 2 @ 6.5 ft.	7/26/93	19.7	82	234	1,082
PIT WATER	8/9/93	ND	1.5	1.7	34.0
E. TRENCH	8/9/93	372	366	7.0	565
W. TRENCH	8/9/93	0.3	4.9	2.4	40.5
CTR. TRENCH	8/9/93	35.8	60	4.6	442
TRENCH 1	8/30/93	ND	0.6	0.3	4.2
TRENCH 2 No.	8/30/93	ND	1.1	ND	2.6
TRENCH 2 So.	8/30/93	10.2	830	9.4	1,840
TRENCH 2 So.	9/10/93	5.1	125	45.4	663
TRENCH 3	8/30/93	11.9	179	ND	805
TRENCH 3	9/10/93	ND	0.4	ND	3.0
TRENCH 4	8/30/93	184	520	ND	1,063
TRENCH 4	9/10/93	44.0	117	ND	605
TRENCH 4	9/22/93	28.1	3.2	10.1	464

GW Sampling ID	Sample Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
TRENCH 5	8/30/93	88	278	5.5	601
TRENCH 5	9/10/93	0.3	2.2	2.4	56.0
TRENCH 6	8/30/93	0.4	2.4	ND	11.4
TRENCH 7	8/30/93	0.3	2.3	2.1	46.6

NOTE: GW = groundwater; ND indicated non-detect at detection limits, ppb indicates parts per billion.

Groundwater Monitor Well Installation:

Four (4) monitor wells were installed on June 13, 1996 utilizing a backhoe due to the cobbles encountered during previous activities (*Figure 2*). Boring logs and monitor well construction and completion schematics are included in this report.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells following US EPA: SW-846 protocol. The samples were collected using new disposable bailers and placed in new laboratory supplied forty (40) milliliter glass vials with teflon septa caps. Samples were analyzed for BTEX per US EPA Method 8020. Additional groundwater was collected and placed in laboratory supplied and cleaned 500 ml plastic containers and analyzed for general water quality per approved US EPA methods and quality assurance/quality control (QA/QC).

The samples were preserved cool (BTEX samples also preserved with mercuric chloride or hydrochloric acid) and hand delivered to a qualified laboratory for testing. Waste generated during monitor well sampling and development was disposed of utilizing the separator tank pit located on the well site.

Groundwater Quality & Flow Direction Information:

The following summary table discloses the BTEX levels reported within the four (4) monitor wells during the June 18, 1996 sampling event.

Monitor Well	Sample Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
1	6/18/96	ND	ND	ND	ND
2	6/18/96	ND	1	ND	1
3	6/18/96	ND	ND	ND	ND
4	6/18/96	ND	ND	ND	ND

NOTE: ppb indicates parts per billion, ND indicates non-detect at detection limits.

The general chemistry laboratory data can be reviewed at the end of the text portion of this report. The initial testing in June, 1996 reported total dissolve solids (TDS) in excess of the NMWQCC's regulatory standards (1,000 mg/L) within MW #2 (8,370), MW #3 (2,300), and MW #4 (1,040). However, test results from the May, 2000 sampling event reports substantially decreased TDS level in MW #2 (4,560) and slightly lowered values in MW #3 (1,530) and #4 (747). The chloride level in MW #2 (1,290 mg/L) also exceed regulatory standards (250 mg/L), but was significantly diminished to below regulatory standards (240 mg/L) during May, 2000 sampling event.

Groundwater contour maps of relative water table elevations for the June, 1996 and May, 2000 sampling events are shown in *Figure 3 and 4* respectively. The general flow direction was in the south direction during the June, 1996 sampling event and in the south-southwest direction during the May, 2000 sampling event.

Summary and Recommendations:

Based on the pit closure documentation and the monitor well test results, it appears that the separator pit has effectively been remediated. However, verification is needed in the south and down gradient direction in the vicinity of T 2. Based on the groundwater flow direction documented, contamination encountered due east of the pit and south of the well head does not appear to be associated with the separator pit. Therefore it is possible that one or more source areas may have existed in these specific localities (east and center trenches and trenches 3, 4, and 5 sampling areas - see notes on Figure 1).

Recommendations for future investigation(s) and/or monitoring at the site are as follows.

1. Investigate via test hole advancement or monitor well installation in the proximity of T 2. If all BTEX and general water quality meet background or NMWQCC standards during the initial sampling event, then it is proposed to request closure of the separator pit with an attached risk based assessment addressing the localization of the TDS level encountered in MW #2.
2. Conduct further investigation via test hole advancements or monitor well installations in those areas previously identified of exceeding NMWQCC standards for BTEX east and southeast of the separator pit. Once verification has been conducted, request for closure will adhere to the criteria established in BP Amoco's NMOCD approved groundwater management plan.

GENERAL WATER QUALITY 1996 - 2000 COMPARISON
BP AMOCO
McCOY GC A # 1A
UNIT F , SEC. 18 , T31N , R10W

PARAMETERS	MW # 1 06/18/96	MW # 1 05/30/00	MW # 2 06/18/96	MW # 2 05/30/00	MW # 3 06/18/96	MW # 3 05/30/00	MW # 4 06/18/96	MW # 4 05/30/00	Units
LAB pH	7.9	7.02	7.2	7.25	8.0	7.35	8.2	7.48	s. u.
LAB CONDUCTIVITY @ 25 C	1,310	1,640	10,800	9,130	3,500	3,070	1,750	1,520	umhos / cm
TOTAL DISSOLVED SOLIDS @ 180 C	845	800	8,370	4,560	2,300	1,530	1,100	756	mg / L
TOTAL DISSOLVED SOLIDS (Calc)	810	789	6,380	4,510	2,110	1,510	1,040	747	mg / L
SODIUM ABSORPTION RATIO	-	0.4	-	7.7	-	3.8	-	2.4	ratio
TOTAL ALKALINITY AS CaCO ₃	382	768	2,050	838	573	608	478	452	mg / L
TOTAL HARDNESS AS CaCO ₃	468	652	3,010	1,790	915	704	428	380	mg / L
BICARBONATE as CaCO ₃	382	768	2,050	838	573	608	478	452	mg / L
CARBONATE AS CaCO ₃	NA	< 0.1	mg / L						
HYDROXIDE AS CACO ₃	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	mg / L
NITRATE NITROGEN	NA	2.0	NA	< 0.1	NA	0.3	NA	0.3	mg / L
NITRITE NITROGEN	NA	0.158	NA	< 0.001	NA	0.004	NA	0.003	mg / L
CHLORIDE	40.0	17.1	1,290	240	202	21.7	20.0	12.8	mg / L
FLUORIDE	-	0.66	-	1.63	-	1.84	-	1.32	mg / L
PHOSPHATE	-	0.5	-	0.9	-	0.1	-	0.6	mg / L
SULFATE	261	43.4	1,700	2,360	883	645	379	213	mg / L
IRON	-	7.2	-	10.5	-	0.075	-	0.017	mg / L
CALCIUM	156	195	694	446	271	179	116	115	mg / L
MAGNESIUM	19.3	40.0	312	165	58.0	62.5	33.8	22.5	mg / L
POTASSIUM	5.00	0.7	240	32.5	13.0	0.9	< 5.0	1.0	mg / L
SODIUM	100	23.2	920	750	340	230	200	106	mg / L
CATION / ANION DIFFERENCE	1.36	0.00	2.88	0.63	3.09	0.01	1.89	0.49	%

FIGURE 1



ANIMAS
RIVER

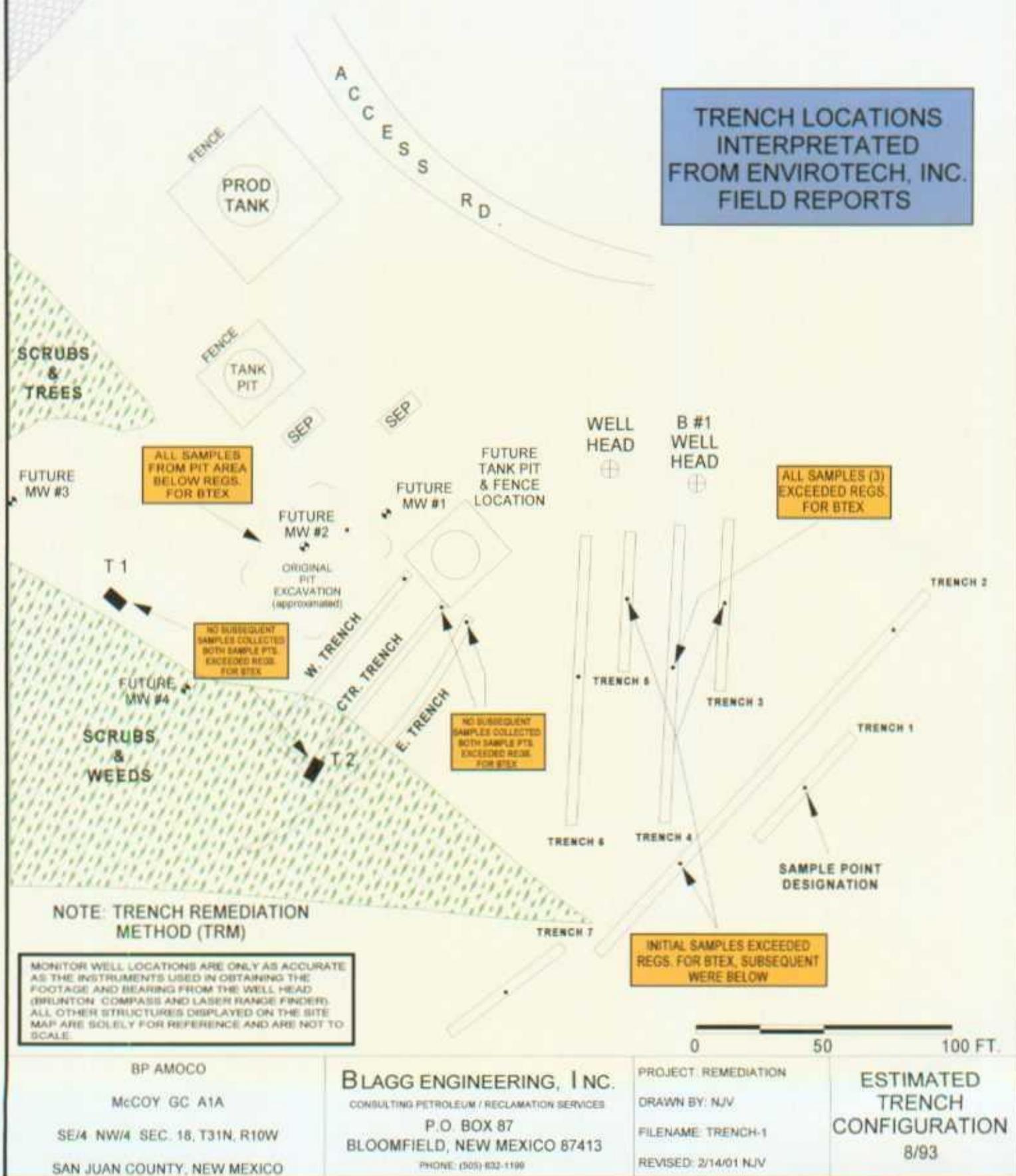
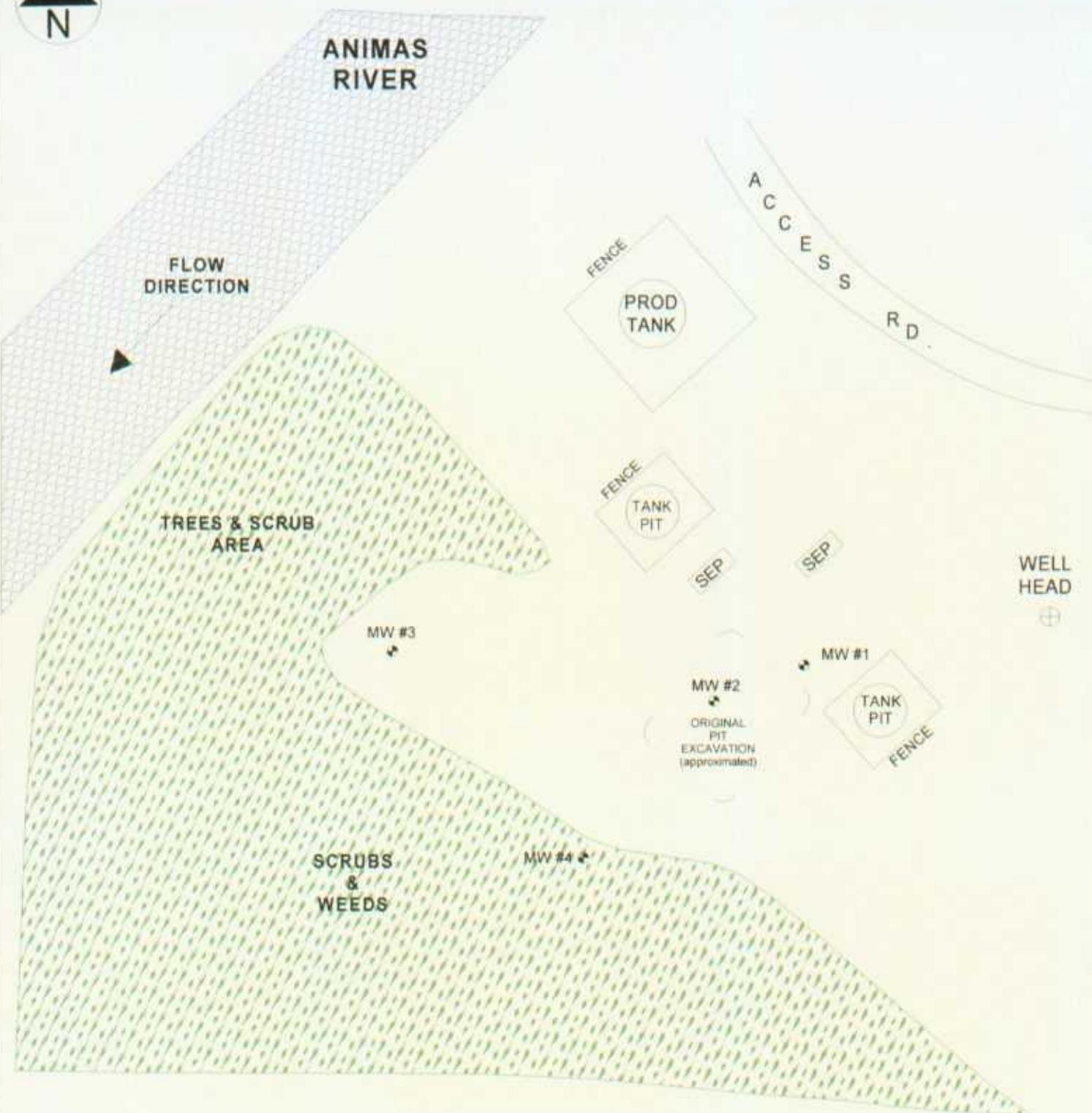


FIGURE 2



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

0 50 100 FT.

BP AMOCO

McCoy GC A1A

SE/4 NW/4 SEC. 18, T31N, R10W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE (505) 632-1199

PROJECT: MW MONITORING

DRAWN BY: NJV

FILENAME: SITE-MAP

REVISED 2/14/01 NJV

SITE
MAP

5/00

FIGURE 3
(2nd 1/4, 1996)



ANIMAS
RIVER

FLOW
DIRECTION

TREES & SCRUB
AREA

APPARENT
GROUNDWATER
FLOW
DIRECTION

MW #3
(91.66)

MW #1

91.6

MW #4
(91.22)

91.4

SCRUBS
&
WEEDS

ORIGINAL
PIT
EXCAVATION

FENCE
TANK
PIT

SEP

SEP

FENCE
PROD
TANK

A
C
C
E
S
S

R
D

WELL
HEAD

NOTE: TRENCH REMEDIATION METHOD
(TRM) USED ON LOCATION

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE
AS THE INSTRUMENTS USED IN OBTAINING THE
FOOTAGE AND BEARING FROM THE WELL HEAD
(BRUNTON COMPASS AND LASER RANGE FINDER).
ALL OTHER STRUCTURES DISPLAYED ON THE SITE
MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO
SCALE

Top of Well Elevation
(100.45)

MW #1 _____ (98.45)

MW #2 _____ (98.06)

MW #3 _____ (98.27)

MW #4 _____ Groundwater Elevation
(92.44) as of 6/18/96

0 50 100 FT.

BP AMOCO

McCOY GC A1A

SE/4 NW/4 SEC. 18, T31N, R10W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 57

BLOOMFIELD, NEW MEXICO 87413

PHONE (505) 632-1199

PROJECT: MW INSTALL

DRAWN BY: NJV

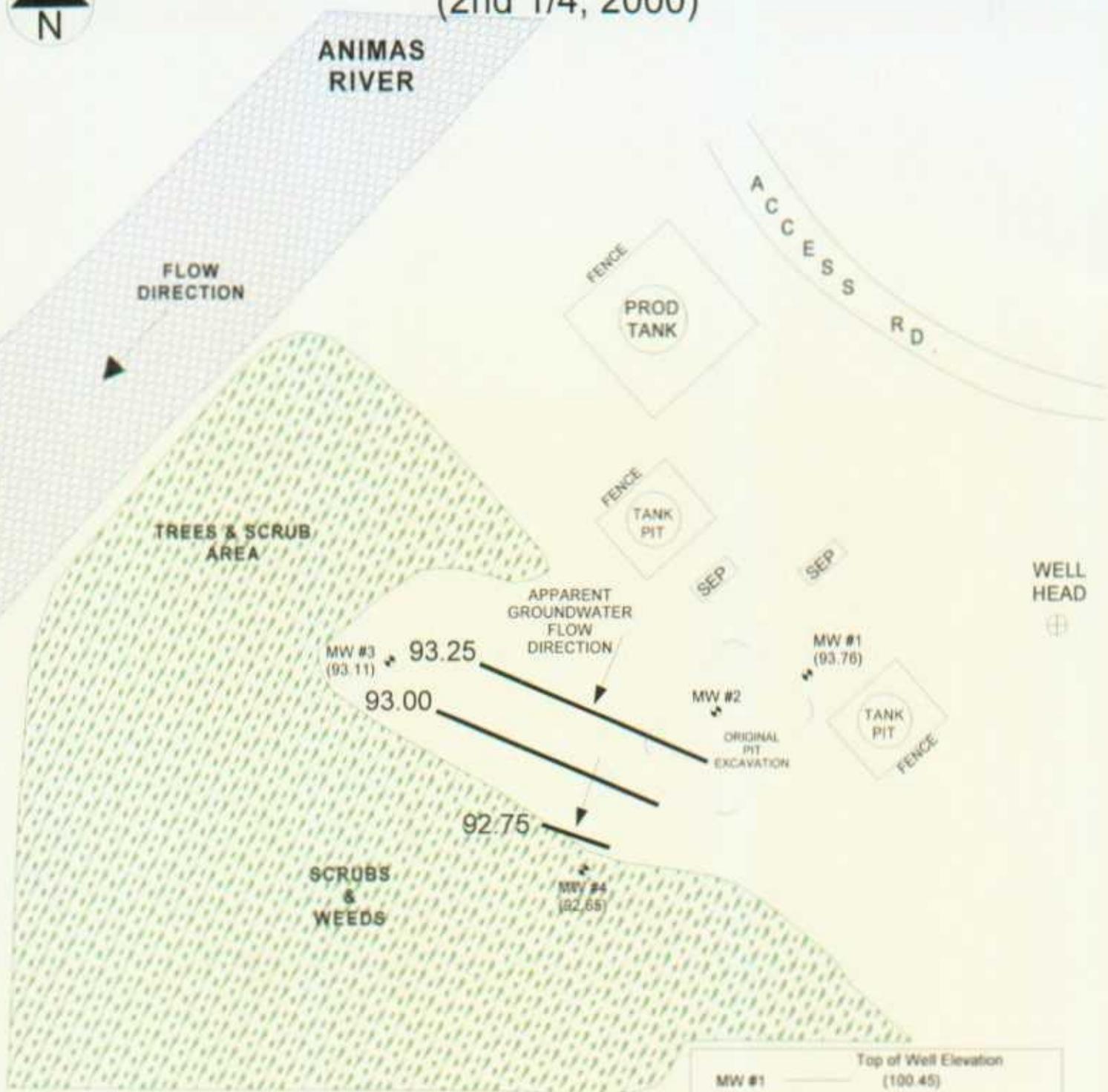
FILENAME: 06-18-GW

REVISED: 2/15/01 NJV

GROUNDWATER
GRADIENT
MAP

6/96

FIGURE 4
(2nd 1/4, 2000)



NOTE: TRENCH REMEDIATION METHOD (TRM) USED ON LOCATION

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

Top of Well Elevation
(100.45)

MW #2 (98.45)

MW #3 (99.06)

MW #4 (98.27)

MW #1 (93.76) Groundwater Elevation as of 5/30/00.

BP AMOCO

McCoy GC A1A

SE/4 NW/4 SEC. 18, T31N, R10W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW MONITORING

DRAWN BY: NJV

FILENAME: 05-30-GW

REVISED: 2/15/01 NJV

GROUNDWATER GRADIENT MAP

5/00

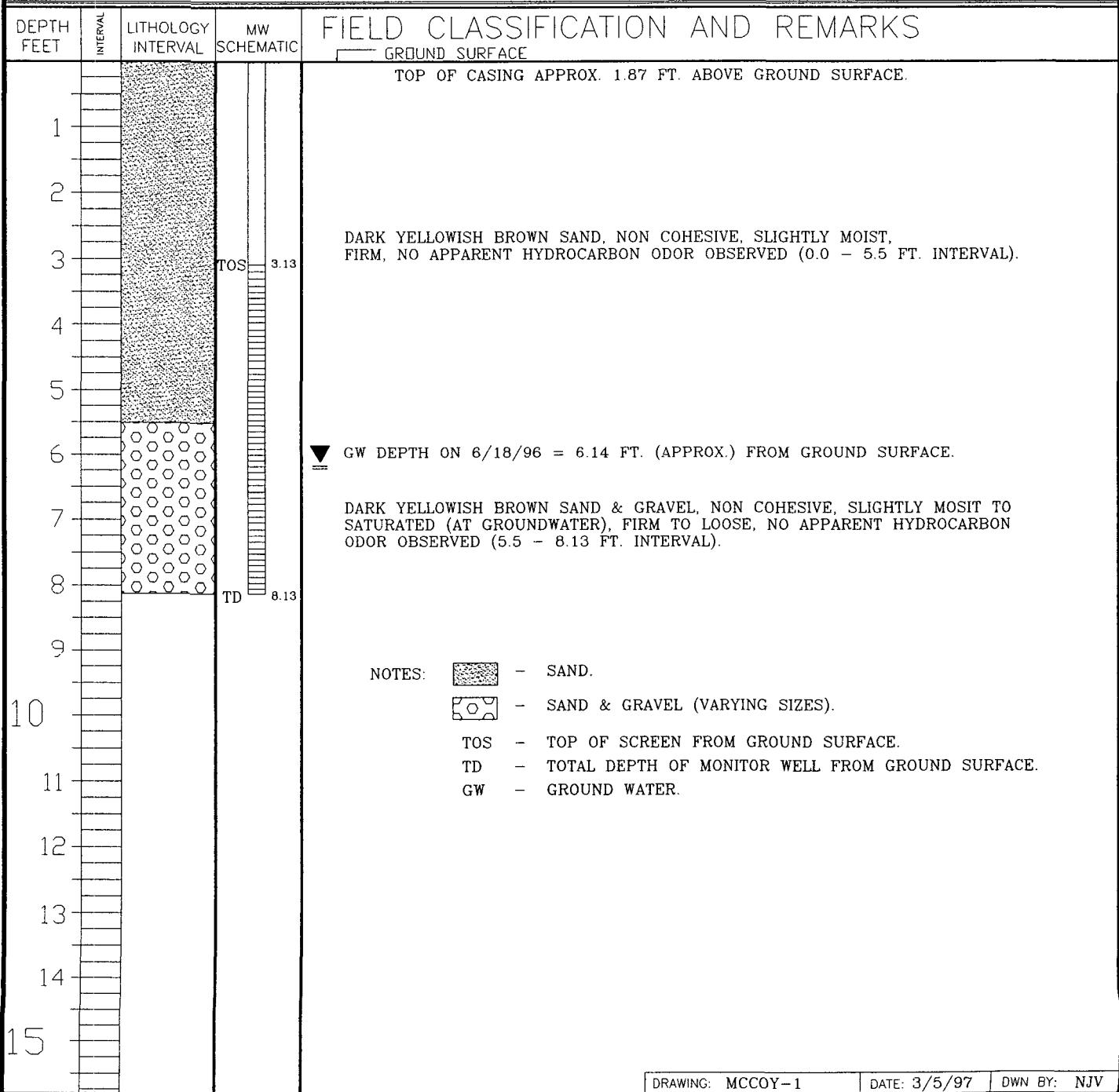
BLAGG ENGINEERING, Inc.

P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

BORE / TEST HOLE REPORT

LOCATION NAME:	MCCOY GC A # 1A
CLIENT:	AMOCO PRODUCTION COMPANY
CONTRACTOR:	BLAGG ENGINEERING, INC. / PAUL & SONS
EQUIPMENT USED:	BACKHOE
BORING LOCATION:	S79W, 89 FEET FROM WELL HEAD.

BORING #.....	BH - 1
MW #.....	1
PAGE #.....	1
DATE STARTED	6/13/96
DATE FINISHED	6/13/96
OPERATOR.....	BM
PREPARED BY	NJV



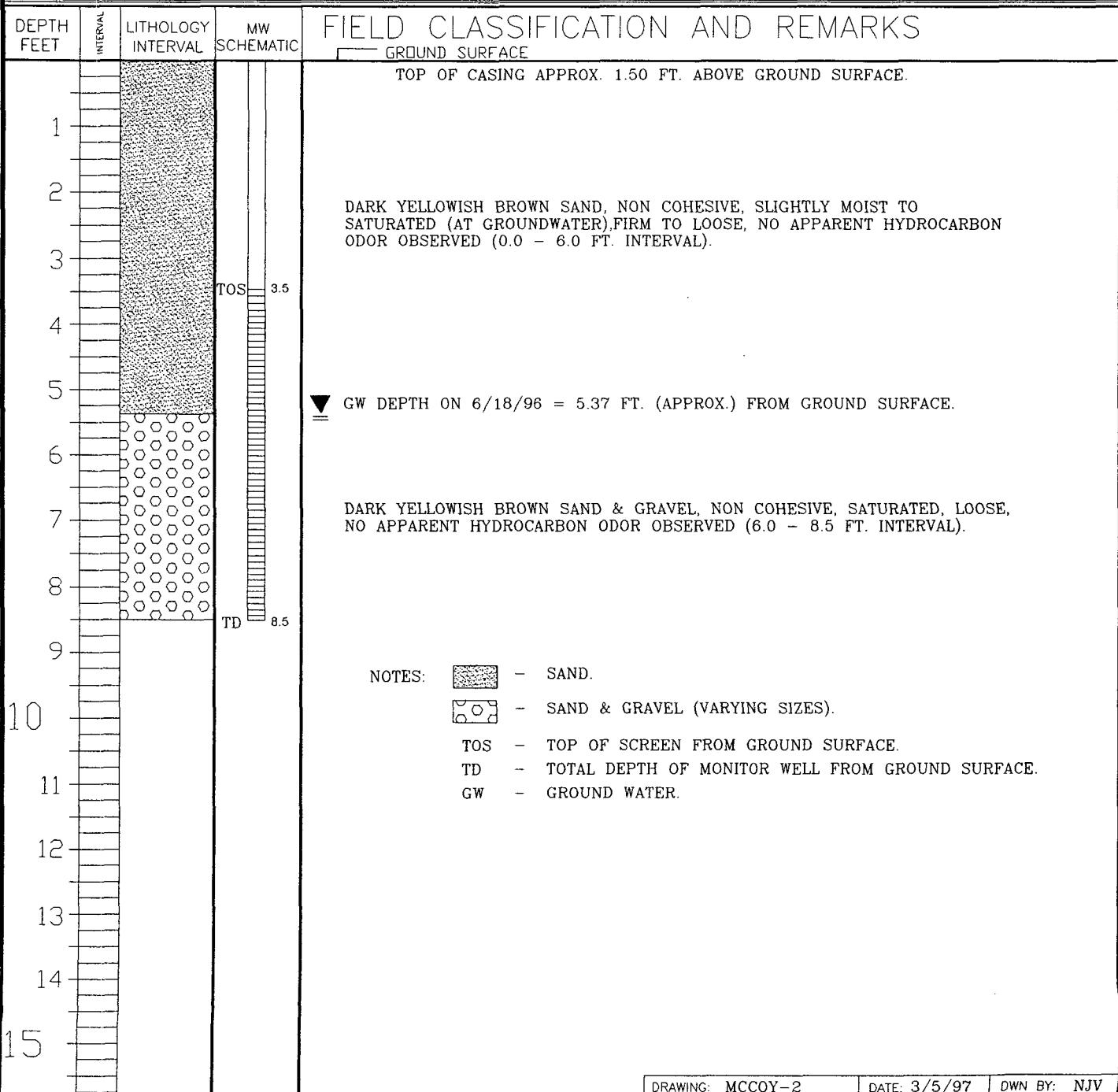
BLAGG ENGINEERING, Inc.

P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

BORE / TEST HOLE REPORT

BORING # BH - 2
 MW # 2
 PAGE # 2
 DATE STARTED 6/13/96
 DATE FINISHED 6/13/96
 OPERATOR..... BM
 PREPARED BY NVJ

LOCATION NAME: MCCOY GC A # 1A
 CLIENT: AMOCO PRODUCTION COMPANY
 CONTRACTOR: BLAGG ENGINEERING, INC. / PAUL & SONS
 EQUIPMENT USED: BACKHOE
 BORING LOCATION: S76W, 123 FEET FROM WELL HEAD.



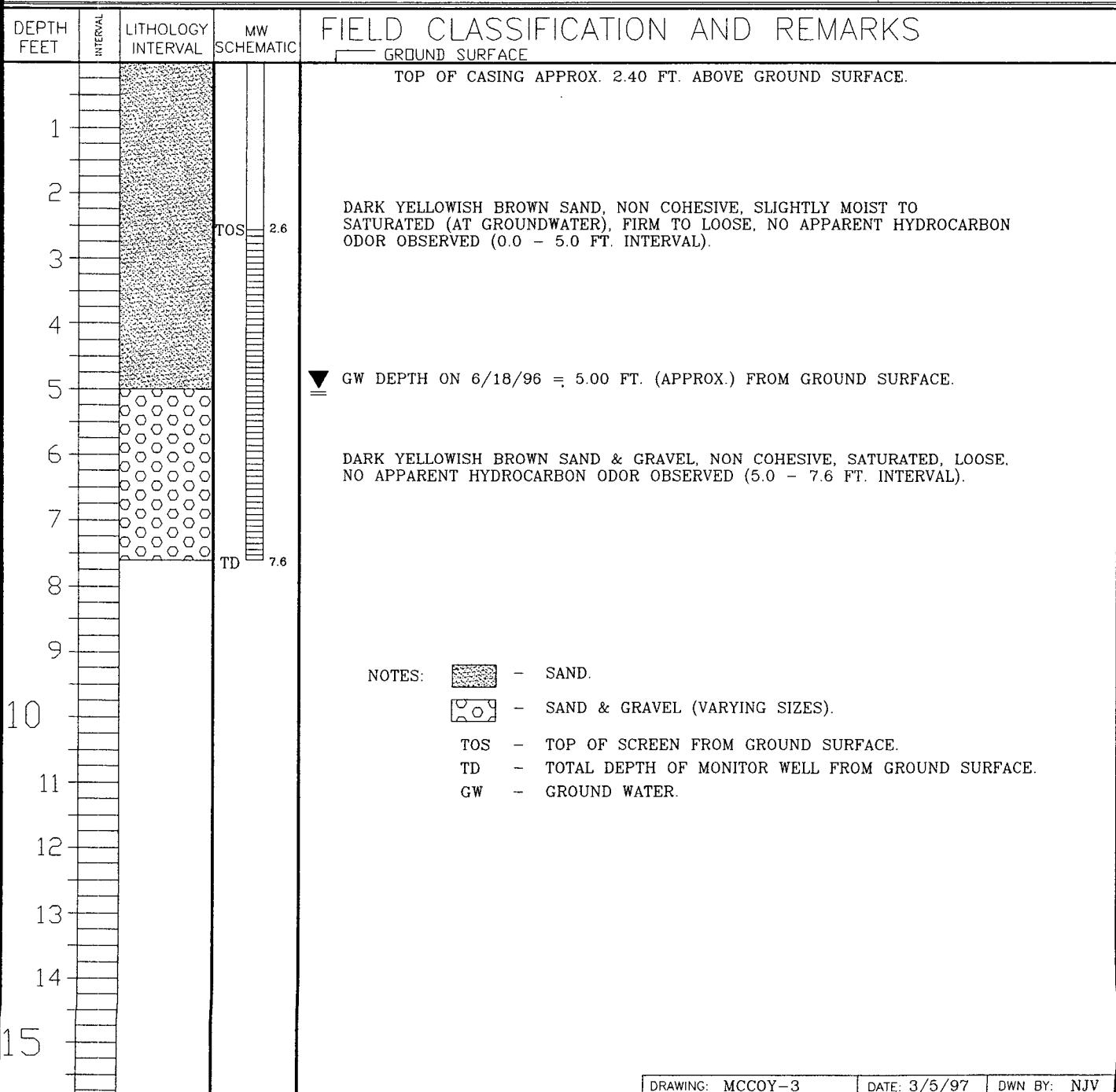
BLAGG ENGINEERING, Inc.

P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

BORE / TEST HOLE REPORT

LOCATION NAME: MCCOY GC A # 1A
 CLIENT: AMOCO PRODUCTION COMPANY
 CONTRACTOR: BLAGG ENGINEERING, INC. / PAUL & SONS
 EQUIPMENT USED: BACKHOE
 BORING LOCATION: S87W, 234 FEET FROM WELL HEAD.

BORING #..... BH - 3
 MW #..... 3
 PAGE #..... 3
 DATE STARTED 6/13/96
 DATE FINISHED 6/13/96
 OPERATOR..... BM
 PREPARED BY NVJ



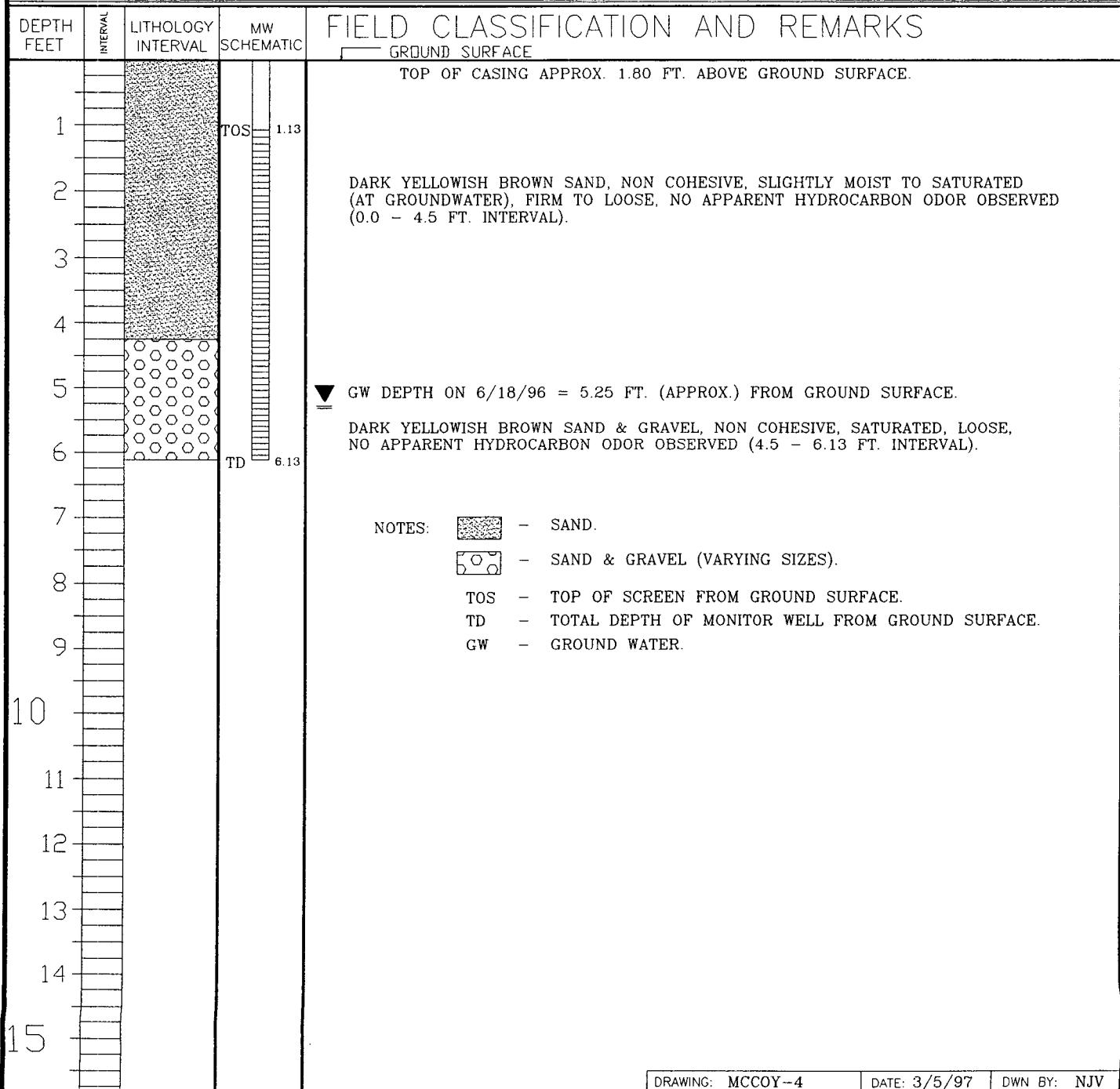
BLAGG ENGINEERING, Inc.

P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

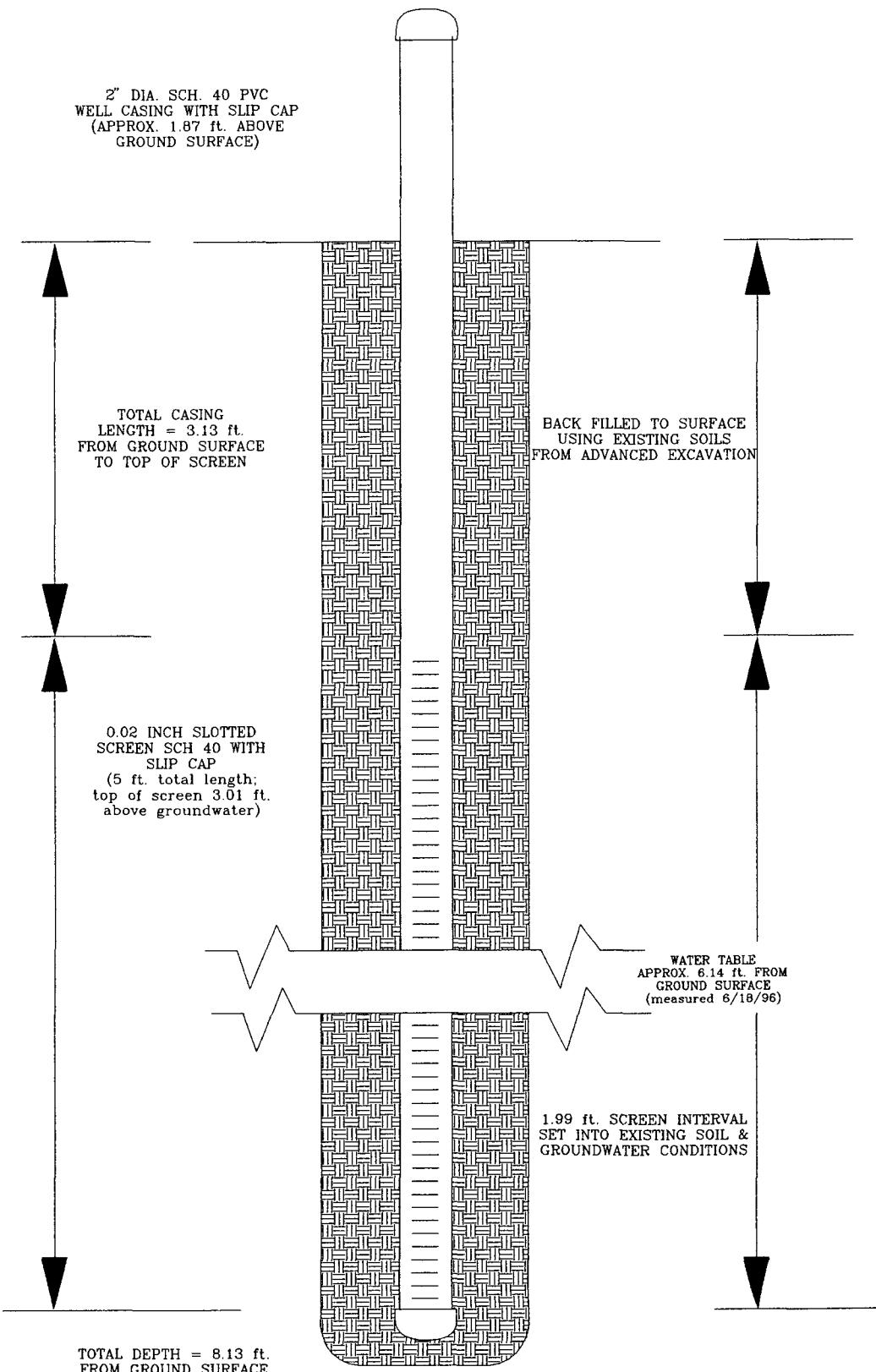
BORE / TEST HOLE REPORT

LOCATION NAME:	McCoy GC A # 1A
CLIENT:	AMOCO PRODUCTION COMPANY
CONTRACTOR:	BLAGG ENGINEERING, INC. / PAUL & SONS
EQUIPMENT USED:	BACKHOE
BORING LOCATION:	S63W, 186 FEET FROM WELL HEAD.

BORING #.....	BH - 4
MW #.....	4
PAGE #.....	4
DATE STARTED	6/13/96
DATE FINISHED	6/13/96
OPERATOR.....	BM
PREPARED BY	NJV



MONITOR WELL #1



AMOCO PRODUCTION COMPANY

McCoy GC A # 1A

MONITOR WELL CONSTRUCTION & COMPLETION

INSTALLED WITH BACKHOE

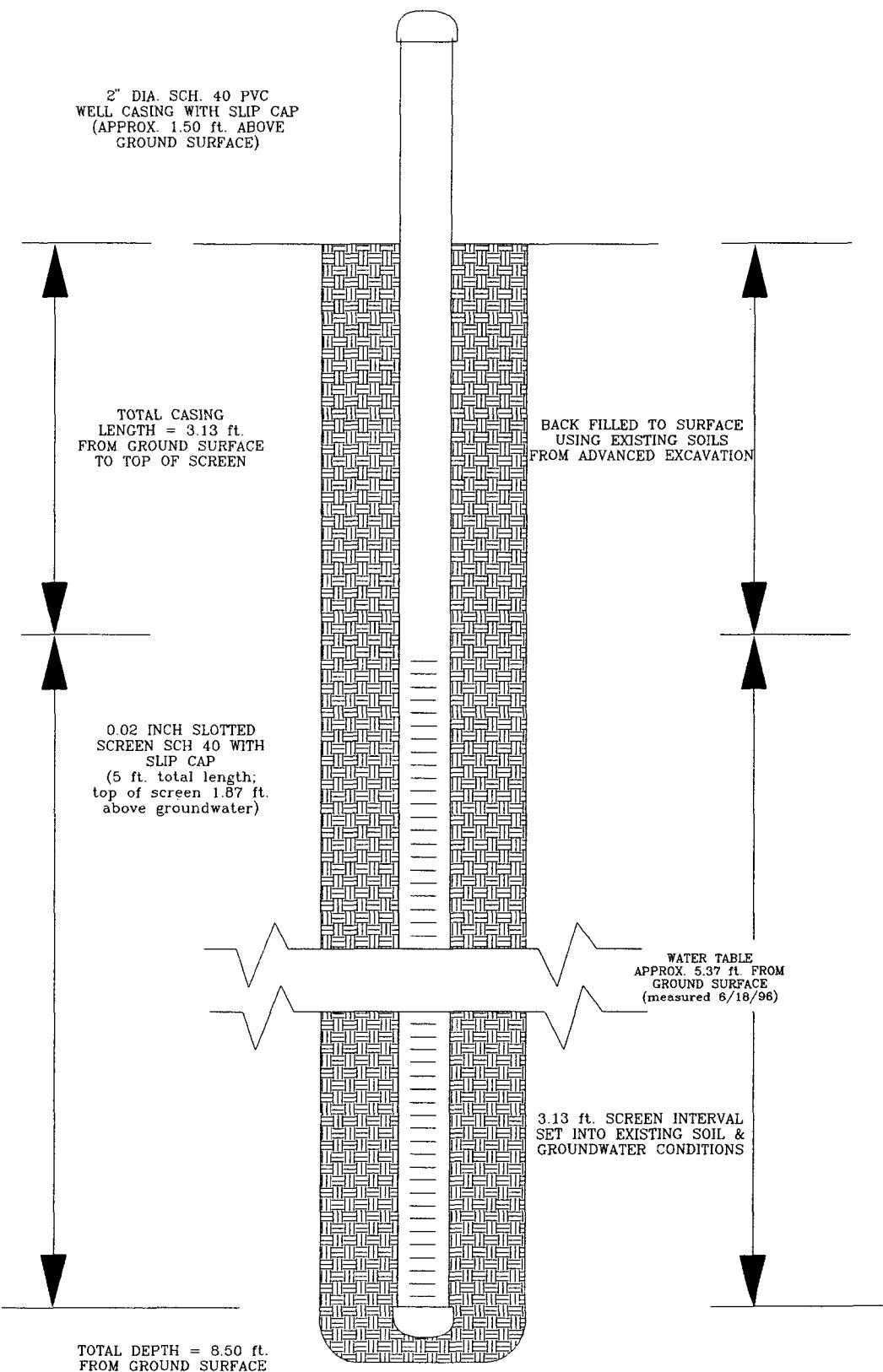
MONITOR WELL SCHEMATIC

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199
DRAFTED BY: NJV
DATE: MAR. '97
FILENAME: MW-1

MONITOR WELL #2



AMOCO PRODUCTION COMPANY

McCoy GC A # 1A

MONITOR WELL CONSTRUCTION & COMPLETION

INSTALLED WITH BACKHOE

BLAGG ENGINEERING, INC.

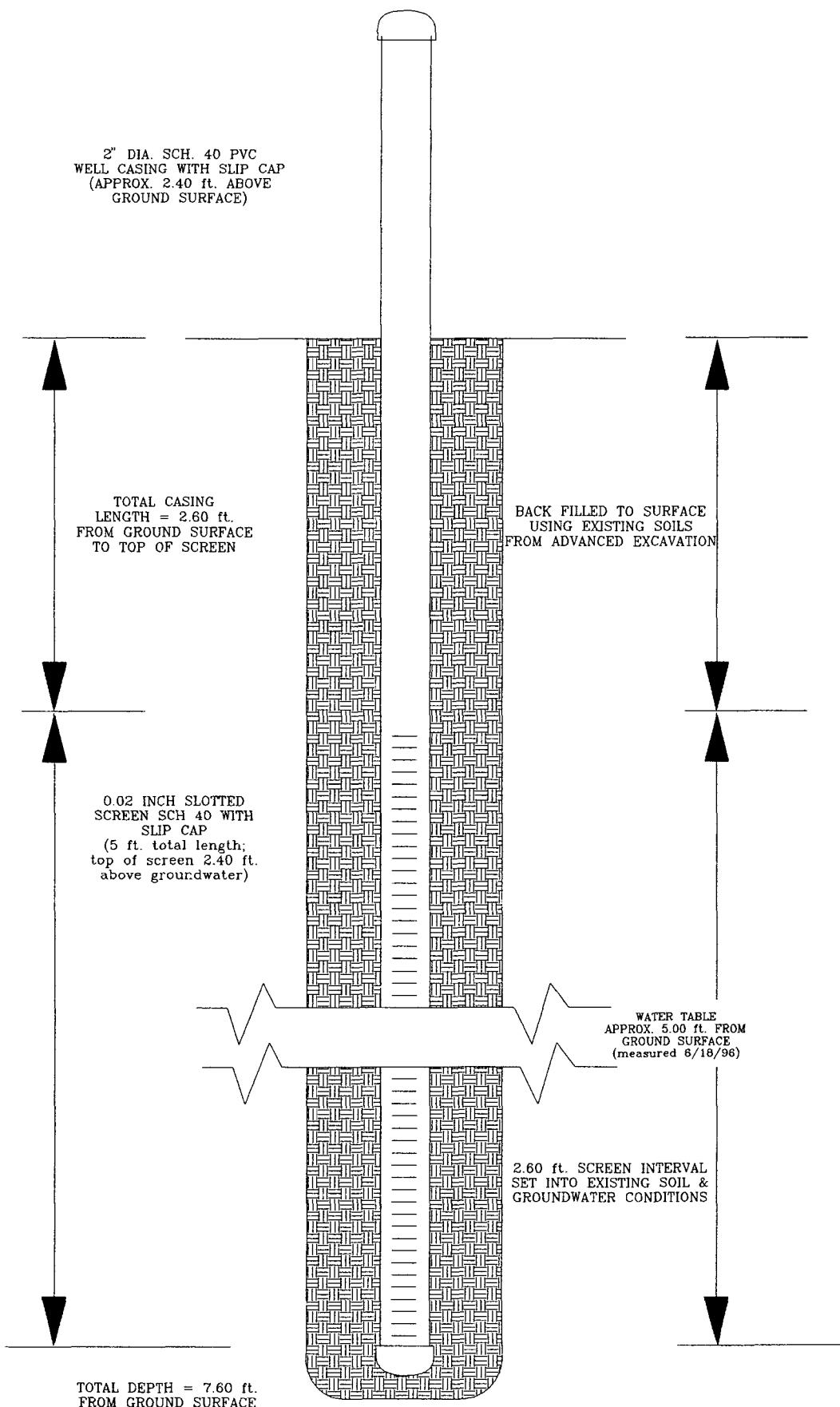
CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

MONITOR WELL SCHEMATIC
DRAFTED BY: NJV
DATE: MAR. '97
FILENAME: MW-2

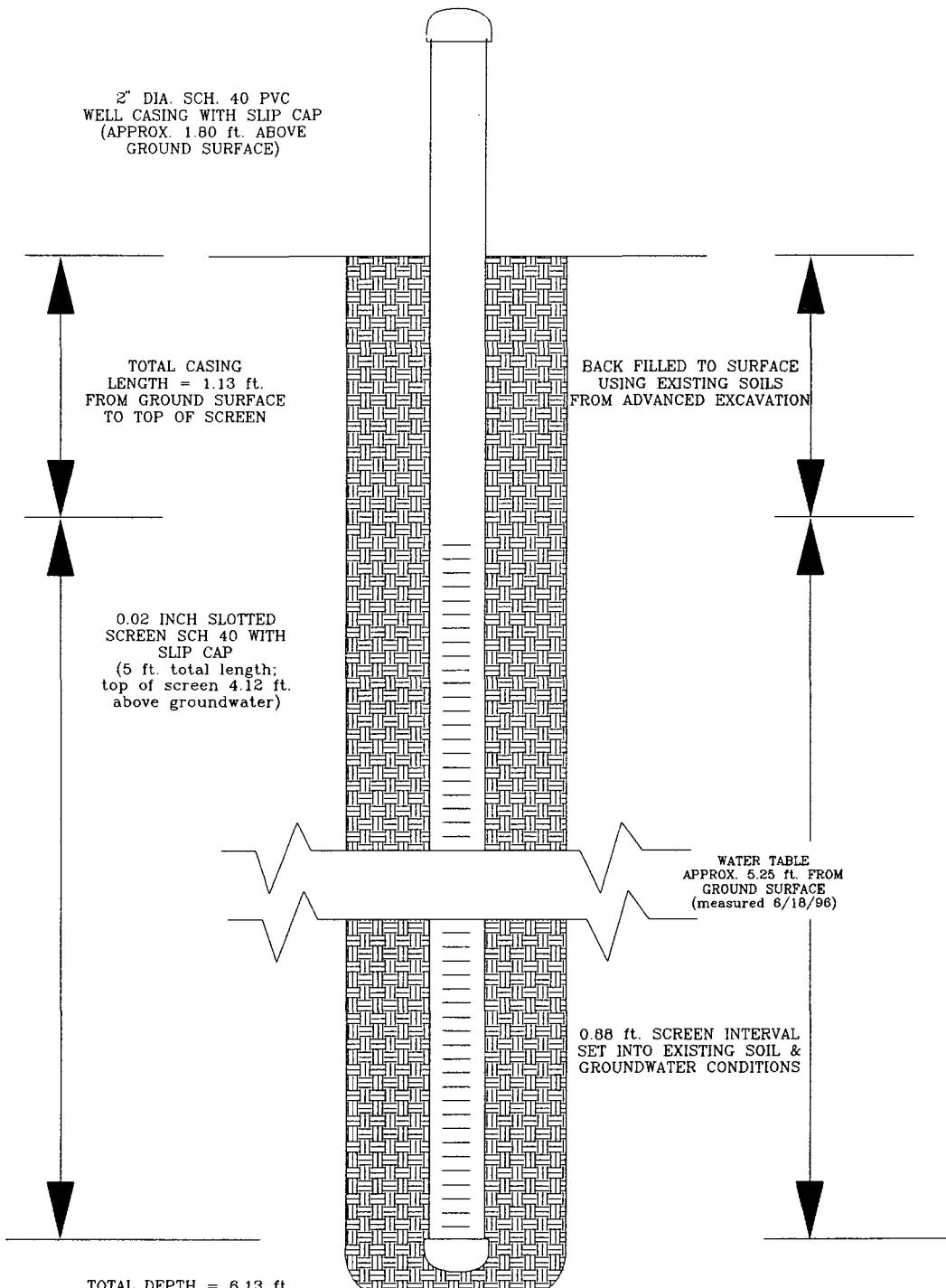
MONITOR WELL #3



AMOCO PRODUCTION COMPANY
McCoy GC A # 1A
MONITOR WELL CONSTRUCTION & COMPLETION
INSTALLED WITH BACKHOE

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

MONITOR WELL #4



AMOCO PRODUCTION COMPANY

McCoy GC A # 1A

MONITOR WELL CONSTRUCTION & COMPLETION

INSTALLED WITH BACKHOE

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

MONITOR WELL SCHEMATIC

DRAFTED BY: NJV

DATE: MAR. '97

FILENAME: MW-4

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : **AMOCO PRODUCTION CO.**

CHAIN-OF-CUSTODY # : 2379

McCOY GC A # 1A - BLOW & SEP. PITS
UNIT F, SEC. 18, T31N, R10W

LABORATORY(S) USED : ANAITAS

Date : June 18, 1996

SAMPLER : R E O

Filename : 06-18-96.WK4

PROJECT MANAGER : R E O

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	100.45	92.44	8.01	10.00	0815	7.2	1,200	1.00	-
2	98.45	91.58	6.87	10.00	0830	6.2	5,000	1.50	-
3	99.06	91.66	7.40	10.00	0850	7.2	2,500	1.25	
4	98.27	91.22	7.05	7.93	0910	7.1	1,400	0.50	-

NOTES : Volume of water purged from well prior to sampling: V = pi X r² X h X 7.48 gal./ft³) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Collected BTEX & anion / cation samples for all MW's listed above .

PURGEABLE AROMATICSBlagg Engineering, Inc.

Project ID:	McCoy GC A 1A	Report Date:	07/03/96
Sample ID:	MW - 1	Date Sampled:	06/18/96
Lab ID:	4000	Date Received:	06/18/96
Sample Matrix:	Water	Date Analyzed:	07/02/96
Preservative:	Cool, HgCl ₂		
Condition:	Intact		

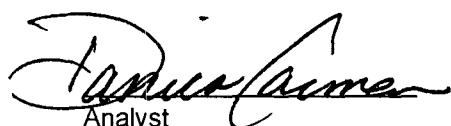
Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	ND	0.50
Total BTEX	ND	

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	104	88 - 110%
	Bromofluorobenzene	98	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:


Daniel J. Lamer
Analyst
Dennis R. He
Review

PURGEABLE AROMATICS**Blagg Engineering, Inc.**

Project ID:	McCoy GC A 1A	Report Date:	07/03/96
Sample ID:	MW - 2	Date Sampled:	06/18/96
Lab ID:	4001	Date Received:	06/18/96
Sample Matrix:	Water	Date Analyzed:	07/02/96
Preservative:	Cool, HgCl ₂		
Condition:	Intact		

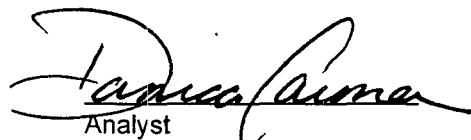
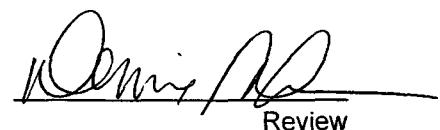
Target Analyte	Concentration ($\mu\text{g/L}$)	Detection Limit ($\mu\text{g/L}$)
Benzene	ND	0.50
Toluene	1.81	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	1.07	0.50
Total BTEX		2.88

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	106	88 - 110%
	Bromofluorobenzene	99	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:


Analyst
Review

PURGEABLE AROMATICS**Blagg Engineering, Inc.**

Project ID:	McCoy GC A 1A	Report Date:	07/03/96
Sample ID:	MW - 3	Date Sampled:	06/18/96
Lab ID:	4002	Date Received:	06/18/96
Sample Matrix:	Water	Date Analyzed:	07/02/96
Preservative:	Cool, HgCl ₂		
Condition:	Intact		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	ND	0.50
Total BTEX		ND

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	104	88 - 110%
	Bromofluorobenzene	100	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst
Review

PURGEABLE AROMATICSBlagg Engineering, Inc.

Project ID:	McCoy GC A 1A	Report Date:	07/03/96
Sample ID:	MW - 4	Date Sampled:	06/18/96
Lab ID:	4003	Date Received:	06/18/96
Sample Matrix:	Water	Date Analyzed:	07/02/96
Preservative:	Cool, HgCl ₂		
Condition:	Intact		

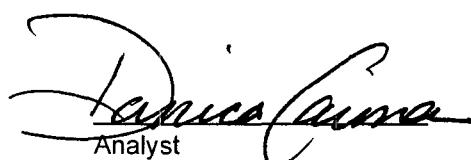
Target Analyte	Concentration ($\mu\text{g/L}$)	Detection Limit ($\mu\text{g/L}$)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	ND	0.50
Total BTEX		ND

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	95	88 - 110%
	Bromofluorobenzene	91	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

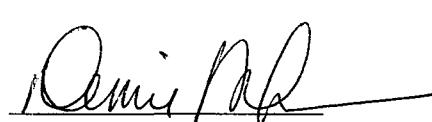
Comments:


Janice Lewis
Analyst
Dennis R. Blagg
Review

General Water Quality
Blagg Engineering, Inc.

Project ID:	McCoy GC A 1A	Date Reported:	07/03/96
Sample ID:	MW - 1	Date Sampled:	06/18/96
Laboratory ID:	4000	Time Sampled:	8:15
Sample Matrix:	Water	Date Received:	06/18/96

Parameter	Analytical Result	Units
General	Lab pH.....	7.9
	Lab Conductivity @ 25° C.....	1,310
	Total Dissolved Solids @ 180°C.....	845
	Total Dissolved Solids (Calc).....	810
Anions	Total Alkalinity as CaCO ₃	382
	Bicarbonate Alkalinity as CaCO ₃	382
	Carbonate Alkalinity as CaCO ₃	NA
	Hydroxide Alkalinity as CaCO ₃	NA
	Chloride.....	40.0
	Sulfate.....	261
	Nitrate + Nitrite - N.....	NA
	Nitrate - N.....	NA
	Nitrite - N.....	NA
Cations	Total Hardness as CaCO ₃	468
	Calcium.....	156
	Magnesium.....	19.3
	Potassium.....	5.00
	Sodium.....	100
Data Validation		<u>Acceptance Level</u>
	Cation/Anion Difference.....	1.36
	TDS (180):TDS (calculated).....	1.0
		+/ - 5 %
		1.0 - 1.2
Reference	U.S.E.P.A. 600/4-79-020, <u>Methods for Chemical Analysis of Water and Wastes</u> , 1983. <u>Standard Methods For The Examination Of Water And Wastewater</u> , 18th ed., 1992.	



Review

General Water Quality
Blagg Engineering, Inc.

Project ID:	McCoy GC A 1A	Date Reported:	07/03/96
Sample ID:	MW - 2	Date Sampled:	06/18/96
Laboratory ID:	4001	Time Sampled:	8:30
Sample Matrix:	Water	Date Received:	06/18/96

Parameter	Analytical Result	Units
General	Lab pH.....	7.2
	Lab Conductivity @ 25° C.....	10,800
	Total Dissolved Solids @ 180°C.....	8,370
	Total Dissolved Solids (Calc).....	6,380
Anions	Total Alkalinity as CaCO ₃	2,050
	Bicarbonate Alkalinity as CaCO ₃	2,050
	Carbonate Alkalinity as CaCO ₃	NA
	Hydroxide Alkalinity as CaCO ₃	NA
	Chloride.....	1,290
	Sulfate.....	1,700
	Nitrate + Nitrite - N.....	NA
	Nitrate - N.....	NA
	Nitrite - N.....	NA
Cations	Total Hardness as CaCO ₃	3,010
	Calcium.....	694
	Magnesium.....	312
	Potassium.....	240
	Sodium.....	920
Data Validation		<u>Acceptance Level</u>
	Cation/Anion Difference.....	2.88
	TDS (180):TDS (calculated).....	1.3
		+/- 5 %
		1.0 - 1.2
Reference	U.S.E.P.A. 600/4-79-020, <u>Methods for Chemical Analysis of Water and Wastes</u> , 1983. <u>Standard Methods For The Examination Of Water And Wastewater</u> , 18th ed., 1992.	



Dennis R. O'Brien
Review

General Water Quality

Blagg Engineering, Inc.

Project ID:	McCoy GC A 1A	Date Reported:	07/03/96
Sample ID:	MW - 3	Date Sampled:	06/18/96
Laboratory ID:	4002	Time Sampled:	8:50
Sample Matrix:	Water	Date Received:	06/18/96

Parameter		Analytical Result	Units
General	Lab pH.....	8.0	s.u.
	Lab Conductivity @ 25° C.....	3,500	µmhos/cm
	Total Dissolved Solids @ 180°C.....	2,300	mg/L
	Total Dissolved Solids (Calc).....	2,110	mg/L
Anions	Total Alkalinity as CaCO ₃	573	mg/L
	Bicarbonate Alkalinity as CaCO ₃	573	mg/L
	Carbonate Alkalinity as CaCO ₃	NA	mg/L
	Hydroxide Alkalinity as CaCO ₃	NA	mg/L
	Chloride.....	202	mg/L
	Sulfate.....	883	mg/L
	Nitrate + Nitrite - N.....	NA	
	Nitrate - N.....	NA	
	Nitrite - N.....	NA	
Cations	Total Hardness as CaCO ₃	915	mg/L
	Calcium.....	271	mg/L
	Magnesium.....	58.0	mg/L
	Potassium.....	13.0	mg/L
	Sodium.....	340	mg/L
Data Validation		<u>Acceptance Level</u>	
Cation/Anion Difference.....		3.09	+/- 5 %
TDS (180):TDS (calculated).....		1.1	1.0 - 1.2
Reference	U.S.E.P.A. 600/4-79-020, <u>Methods for Chemical Analysis of Water and Wastes</u> , 1983. <u>Standard Methods For The Examination Of Water And Wastewater</u> , 18th ed., 1992.		

Review

General Water Quality

Blagg Engineering, Inc.

Project ID:	McCoy GC A 1A	Date Reported:	07/03/96
Sample ID:	MW - 4	Date Sampled:	06/18/96
Laboratory ID:	4003	Time Sampled:	9:10
Sample Matrix:	Water	Date Received:	06/18/96

Parameter	Analytical Result	Units
General	Lab pH.....	8.2
	Lab Conductivity @ 25° C.....	1,750 $\mu\text{mhos}/\text{cm}$
	Total Dissolved Solids @ 180°C.....	1,100 mg/L
	Total Dissolved Solids (Calc).....	1,040 mg/L
Anions	Total Alkalinity as CaCO ₃	478 mg/L
	Bicarbonate Alkalinity as CaCO ₃	478 mg/L
	Carbonate Alkalinity as CaCO ₃	NA mg/L
	Hydroxide Alkalinity as CaCO ₃	NA mg/L
	Chloride.....	20.0 mg/L
	Sulfate.....	379 mg/L
	Nitrate + Nitrite - N.....	NA
	Nitrate - N.....	NA
	Nitrite - N.....	NA
Cations	Total Hardness as CaCO ₃	428 mg/L
	Calcium.....	116 mg/L
	Magnesium.....	33.8 mg/L
	Potassium.....	< 5.0 mg/L
	Sodium.....	200 mg/L
Data Validation		Acceptance Level
Cation/Anion Difference.....		+/- 5 %
TDS (180):TDS (calculated).....		1.1 1.0 - 1.2
Reference U.S.E.P.A. 600/4-79-020, <u>Methods for Chemical Analysis of Water and Wastes</u> , 1983. <u>Standard Methods For The Examination Of Water And Wastewater</u> , 18th ed., 1992.		

Review

ANAITAS

ENVIRONMENTAL LABS

July 5, 1996

Bob O'Neill
Blagg Engineering, Inc.
PO Box 87
Bloomfield, NM 87413

Dear Mr. O'Neill:

Enclosed are the results for the analysis of the samples received June 18, 1996. The samples were from the McCoy GC A1A site. Analyses for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) and general water quality parameters were performed on the samples, as per the accompanying chain of custody form.

Analysis was performed on the samples according to EPA Method 602, using a Hewlett-Packard 5890 gas chromatograph equipped with an OI Analytical purge and trap (model 4560) and a photoionization detector. Detectable levels of btex analytes were found in the samples, as reported.

Water parameters were determined for the samples according to the appropriate methodologies as outlined in Standard Methods for the Examination of Water and Wastewater, 18th edition, 1992.

Quality control reports appear at the end of the analytical package and can be identified by title. Should you have any questions regarding the analysis, feel free to call.

Sincerely,



Denise A. Bohemier
Lab Director

PURGEABLE AROMATICS

Quality Control Report

Method Blank Analysis

Sample Matrix: Water
Lab ID: MB35248

Report Date: 07/03/96
Date Analyzed: 07/02/96

Target Analyte	Concentration ($\mu\text{g/L}$)	Detection Limit ($\mu\text{g/L}$)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	ND	0.50

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	100	88 - 110%
	Bromofluorobenzene	100	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:


Dennis L. Fama
Analyst
Dennis M. Fama
Review

Purgeable Aromatics

Matrix Spike Analysis

Lab ID: 4002Spk Report Date: 07/03/96
Sample Matrix: Water Date Sampled: 06/18/96
Preservative: Cool, HgCl₂ Date Received: 06/18/96
Condition: Intact Date Analyzed: 07/02/96

Target Analyte	Spike Added (ug/L)	Original Conc. (ug/L)	Spiked Sample Conc. (ug/L)	% Recovery	Acceptance Limits (%)
Benzene	10	ND	9.29	93%	39 - 150
Toluene	10	ND	9.41	92%	46 - 148
Ethylbenzene	10	ND	9.40	94%	32 - 160
m,p-Xylenes	20	ND	18.6	92%	NE
o-Xylene	10	ND	9.45	93%	NE

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

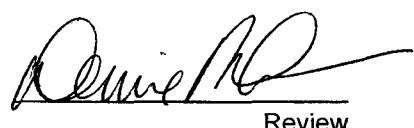
NE - Spike acceptance range not established by the EPA.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	98	88 - 110%
	Bromofluorobenzene	98	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:


Analyst


Review

Purgeable Aromatics

Duplicate Analysis

Lab ID:	3998Dup	Report Date:	7/3/96
Sample Matrix:	Water	Date Sampled:	6/18/96
Preservative:	Cool, HgCl ₂	Date Received:	6/18/96
Condition:	Intact	Date Analyzed:	7/2/96

Target Analyte	Original Conc. (ug/L)	Duplicate Conc. (ug/L)	Acceptance Range (ug/L)
Benzene	5.45	5.89	3.47 - 7.87
Toluene	2.25	2.88	1.14 - 3.99
Ethylbenzene	0.40	0.62	0 - 1.60
m,p-Xylenes	1.78	2.53	NE
o-Xylene	3.50	3.82	NE

ND - Analyte not detected at the stated detection limit.

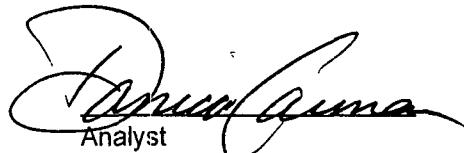
NA - Not applicable or not calculated.

NE - Duplicate acceptance range not established by the EPA.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	94	88 - 110%
Bromofluorobenzene		101	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:


Anna Guma
Analyst
Dennis M. H.
Review

General Water Quality

Quality Control Report

Blagg Engineering, Inc.

Report Date: 7/3/96

Parameter	Analytical Result	Certified Value	Acceptance Range	Units
Laboratory pH	9.07	9.09	8.89 - 9.29	s.u.
Conductivity	1263	1220	1040 - 1400	µmhos/cm
Total Dissolved Solids	880	913	794 - 1030	mg/L
Total Alkalinity	179	180	160 - 200	mg/L
Chloride	140	138	128 - 148	mg/L
Sulfate	115	124	107 - 141	mg/L
Total Hardness	269	254	218 - 290	mg/L
Calcium	59.8	54.6	47.0 - 62.2	mg/L
Magnesium	NA	NA	NA	mg/L
Potassium	120	123	105 - 141	mg/L
Sodium	170	173	147 - 199	mg/L

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination Of Water And Wastewater, 18th ed., 1992.

Comments:

Review



CHAIN OF CUSTODY

ANATAS
ENVIRONMENTAL LABS

807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

PROJECT MANAGER:
Anaitas | ab | D.

Company:
Address:

Phone: Fax:

Bill To:
Company:
Address:

Project Information		Sample Receipt
Proj. #:	A W O C O	No. Containers:
Proj. Name:		Custody Seals: Y / N
P. O. No.:	Δ E L ' J	Received Intact:
Shipped Via:		Received Cold:
		Required Turnaround Time (Prior Authorization Required for)

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : BP AMOCOCHAIN-OF-CUSTODY # : 7014

McCOY GC A # 1A - BLOW & SEP. PITS
UNIT F, SEC. 18, T31N, R10W

LABORATORY (S) USED : ENVIROTECHDate : May 30, 2000SAMPLER : N JVFilename : 05-30-00.WK4PROJECT MANAGER : N JV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1	100.45	93.76	6.69	10.00	1005	7.0	1,200	1.75	-
2	98.45	92.72	5.73	10.00	1015	7.2	4,000	2.25	-
3	99.06	93.11	5.95	10.00	1030	7.2	1,900	2.00	-
4	98.27	92.65	5.62	8.00	1045	7.3	1,100	1.25	-

NOTES : Volume of water purged from well prior to sampling; V = pi X r² X h X 7.48 gal./ft³) X 3 (wellbores)

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2"Collected anion / cation samples from all MW's listed above . MW # 1 & # 2 poor recovery .

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	MW #1	Date Reported:	05-31-00
Laboratory Number:	H362	Date Sampled:	05-30-00
Chain of Custody:	7014	Date Received:	05-30-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-31-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units	
pH	7.02	s.u.		
Conductivity @ 25° C	1,640	umhos/cm		
Total Dissolved Solids @ 180C	800	mg/L		
Total Dissolved Solids (Calc)	789	mg/L		
SAR	0.4	ratio		
Total Alkalinity as CaCO ₃	768	mg/L		
Total Hardness as CaCO ₃	652	mg/L		
Bicarbonate as HCO ₃	768	mg/L	12.59	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	2.0	mg/L	0.03	meq/L
Nitrite Nitrogen	0.158	mg/L	0.00	meq/L
Chloride	17.1	mg/L	0.48	meq/L
Fluoride	0.66	mg/L	0.03	meq/L
Phosphate	0.5	mg/L	0.02	meq/L
Sulfate	43.4	mg/L	0.90	meq/L
Iron	7.2	mg/L		
Calcium	195	mg/L	9.74	meq/L
Magnesium	40.0	mg/L	3.29	meq/L
Potassium	0.7	mg/L	0.02	meq/L
Sodium	23.2	mg/L	1.01	meq/L
Cations			14.06	meq/L
Anions			14.06	meq/L
Cation/Anion Difference			0.00%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: McCoy GC A #1A.

Christine M. Walters
Analyst

Deborah L. Apesca
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	MW #2	Date Reported:	05-31-00
Laboratory Number:	H363	Date Sampled:	05-30-00
Chain of Custody:	7014	Date Received:	05-30-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-31-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units	
pH	7.25	s.u.		
Conductivity @ 25° C	9,130	umhos/cm		
Total Dissolved Solids @ 180C	4,560	mg/L		
Total Dissolved Solids (Calc)	4,510	mg/L		
SAR	7.7	ratio		
Total Alkalinity as CaCO ₃	838	mg/L		
Total Hardness as CaCO ₃	1,790	mg/L		
Bicarbonate as HCO ₃	838	mg/L	13.73	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	<0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.001	mg/L	0.00	meq/L
Chloride	240	mg/L	6.77	meq/L
Fluoride	1.63	mg/L	0.09	meq/L
Phosphate	0.9	mg/L	0.03	meq/L
Sulfate	2,360	mg/L	49.14	meq/L
Iron	10.5	mg/L		
Calcium	446	mg/L	22.28	meq/L
Magnesium	165	mg/L	13.59	meq/L
Potassium	32.5	mg/L	0.83	meq/L
Sodium	750	mg/L	32.63	meq/L
Cations			69.32	meq/L
Anions			69.75	meq/L
Cation/Anion Difference			0.63%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: McCoy GC A #1A.

Christin M. Walters
Analyst

Dee L. Olson
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	MW #3	Date Reported:	05-31-00
Laboratory Number:	H364	Date Sampled:	05-30-00
Chain of Custody:	7014	Date Received:	05-30-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-31-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units	
pH	7.35	s.u.		
Conductivity @ 25° C	3,070	umhos/cm		
Total Dissolved Solids @ 180C	1,530	mg/L		
Total Dissolved Solids (Calc)	1,510	mg/L		
SAR	3.8	ratio		
Total Alkalinity as CaCO ₃	608	mg/L		
Total Hardness as CaCO ₃	704	mg/L		
Bicarbonate as HCO ₃	608	mg/L	9.97	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.3	mg/L	0.00	meq/L
Nitrite Nitrogen	0.004	mg/L	0.00	meq/L
Chloride	21.7	mg/L	0.61	meq/L
Fluoride	1.84	mg/L	0.10	meq/L
Phosphate	0.1	mg/L	0.00	meq/L
Sulfate	645	mg/L	13.43	meq/L
Iron	0.075	mg/L		
Calcium	179	mg/L	8.94	meq/L
Magnesium	62.5	mg/L	5.14	meq/L
Potassium	0.9	mg/L	0.02	meq/L
Sodium	230	mg/L	10.01	meq/L
Cations			24.11	meq/L
Anions			24.11	meq/L
Cation/Anion Difference			0.01%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: McCoy GC A #1A.

Christini on Water
Analyst

Dene L. O'Brien
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	MW #4	Date Reported:	05-31-00
Laboratory Number:	H365	Date Sampled:	05-30-00
Chain of Custody:	7014	Date Received:	05-30-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-31-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units	
pH	7.48	s.u.		
Conductivity @ 25° C	1,520	umhos/cm		
Total Dissolved Solids @ 180C	756	mg/L		
Total Dissolved Solids (Calc)	747	mg/L		
SAR	2.4	ratio		
Total Alkalinity as CaCO ₃	452	mg/L		
Total Hardness as CaCO ₃	380	mg/L		
Bicarbonate as HCO ₃	452	mg/L	7.41	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.3	mg/L	0.00	meq/L
Nitrite Nitrogen	0.003	mg/L	0.00	meq/L
Chloride	12.8	mg/L	0.36	meq/L
Fluoride	1.32	mg/L	0.07	meq/L
Phosphate	0.6	mg/L	0.02	meq/L
Sulfate	213	mg/L	4.43	meq/L
Iron	0.017	mg/L		
Calcium	115	mg/L	5.75	meq/L
Magnesium	22.5	mg/L	1.85	meq/L
Potassium	1.0	mg/L	0.03	meq/L
Sodium	106	mg/L	4.61	meq/L
Cations			12.24	meq/L
Anions			12.30	meq/L
Cation/Anion Difference			0.49%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

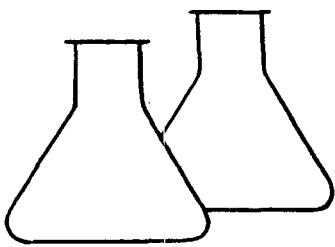
Comments: McCoy GC A #1A.

Christine M. Walters
Analyst

Deneh. Peeler
Review

CHAIN OF CUSTODY RECORD

7014



ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: AMOCO
Sample ID: T-1 @ 7'
Laboratory Number: 0633
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 92140
Date Reported: 06-15-92
Date Sampled: 05-12-92
Date Received: NA
Date Analyzed: 06-04-92
Analysis Needed: TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	177	5.0

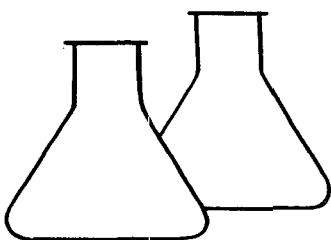
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: McCoy G.C. A1A Separator Pit 94143

Tony Tristano
Analyst

Jul Farnsworth
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:	T 1 @ 7'	Date Reported:	09-24-92
Laboratory Number:	0633	Date Sampled:	05-12-92
Sample Matrix:	Soil	Date Received:	05-12-92
Preservative:	Cool	Date Extracted:	06-04-92
Condition:	Cool & Intact	Date Analyzed:	09-23-92
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	700	120
Toluene	1,090	70
Ethylbenzene	2,130	20.0
p,m-Xylene	6,500	70
o-Xylene	237	60

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	76 %
	Bromfluorobenzene	101 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

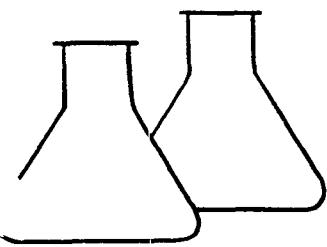
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC A 1A Separator Pit 94143

Lewis S. Freeman
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 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	AMOCO	Project #:	92140
Sample ID:	T-1 @ 7'	Date Reported:	06-17-92
Laboratory Number:	0635	Date Sampled:	05-12-92
Sample Matrix:	Water	Date Received:	05-12-92
Preservative:	Cool	Date Analyzed:	05-18-92
Condition:	Cool & Intact	Analysis Needed:	TPH

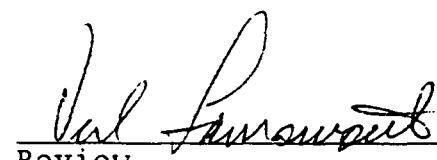
Parameter	Concentration (mg/L)	Det. Limit (mg/L)
TPH	ND	10.0

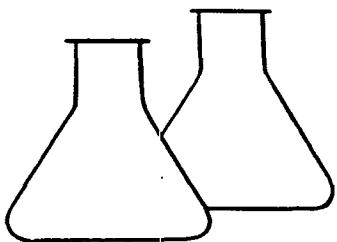
Method: Method 418.1, Total Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC AlA Separator Pit 94143


Analyst


Review



ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: AMOCO
Sample ID: T-6 @ 6'
Laboratory Number: 0636
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 92140
Date Reported: 06-15-92
Date Sampled: 05-12-92
Date Received: NA
Date Analyzed: 06-04-92
Analysis Needed: TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	240	5.0

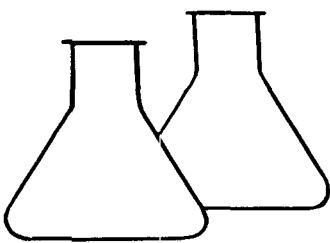
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: McCoy G.C. A1A Separator Pit 94143

Tony Tristano
Analyst

Val Fauswalt
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:	T 6 @ 6'	Date Reported:	09-24-92
Laboratory Number:	0636	Date Sampled:	05-12-92
Sample Matrix:	Soil	Date Received:	05-12-92
Preservative:	Cool	Date Extracted:	06-05-92
Condition:	Cool & Intact	Date Analyzed:	09-23-92
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	120
Toluene	5,800	70
Ethylbenzene	ND	20.0
p,m-Xylene	38,300	70
o-Xylene	14,200	60

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----

Bromfluorobenzene	103 %
-------------------	-------

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

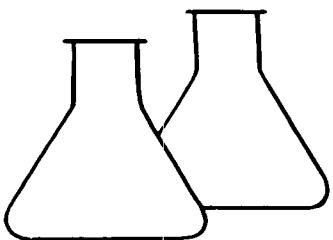
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: McCoy CG A 1A Separator Pit 94143

Lewis L. Gleason
Analyst

Marilyn 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:	T6 @ 7'	Date Reported:	08-21-92
Laboratory Number:	0637	Date Sampled:	05-12-92
Sample Matrix:	Water	Date Received:	05-12-92
Preservative:	HgCl & Cool	Date Analyzed:	06-25-92
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	18,900	40.0
Toluene	61,100	260
Ethylbenzene	5,900	60
p,m-Xylene	53,900	140
o-Xylene	10,600	80

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	83.5 %
	Bromfluorobenzene	89.2 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: McCoy GC A1A---Separator Pit---94143

Robert M Young
Analyst

Robert M Young
Review

1<34

94/43

CHAIN OF CUSTODY RECORD

Client/Project Name AMCO / 1440		Project Location Mc Coy GC AIA		Project Location SEP P1)		ANALYSIS/PARAMETERS	
Sampler: (Signature) <i>Melton, Vela</i>		Chain of Custody Tape No.				Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers		
T1 07'	5/12/92	1255	0637	SOIL	1	✓	✓
T1 07'	5/12/92	1300	0639	WATER	2	✓	not analyzed 11/02/92 T
T1 07'	5/12/92	1305	0635	WATER	1	✓	
T1 05'	5/12/92	1520	0636	SOIL	1	✓	
T1 07'	5/12/92	1530	0637	WATER	2	✓	
Relinquished by: (Signature) <i>Melton, Vela</i>							
Received by: (Signature) <i>Melton, Vela</i>							
Relinquished by: (Signature) <i>Melton, Vela</i>							
Received by: (Signature) <i>Melton, Vela</i>							
				Date	Time	Received by: (Signature)	
				5/12/92	1745	<i>Melton, Vela</i>	Date
							Time
						<i>5-12-92 1745</i>	

ENVIROTECH INC.5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 832-0815

94143

FIELD REPORT: SITE ASSESSMENT

JOB No: 92140
PAGE No: 1 of 2

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: BACKHOE

DATE STARTED: 5/12/92
DATE FINISHED: 5/12/92
ENVIRO. SPCLT: NV
OPERATOR: BW
ASSISTANT: PV

LOCATION: LSE: MCCOY WELL: GC AIA QD: SE/4 NW/4 (4F)
SEC: 18 TWP: 31N RNG: 10W PM: Nm CNTY: SAN JUAN ST: Nm PIT: SEP.

LAND USE: RANGE

SURFACE CONDITIONS: SAND W/ GRAVEL UNLINED, TREES & SCRUBS WITHIN FENCED AREA

FIELD NOTES & REMARKS: FINE TO MEDIUM SAND, BROWN TO BLACK. CONTAMINATION. VERY APPARENT.
WITHIN PIT AREA. @ TZ & TH DARK MED-COARSE SAND.

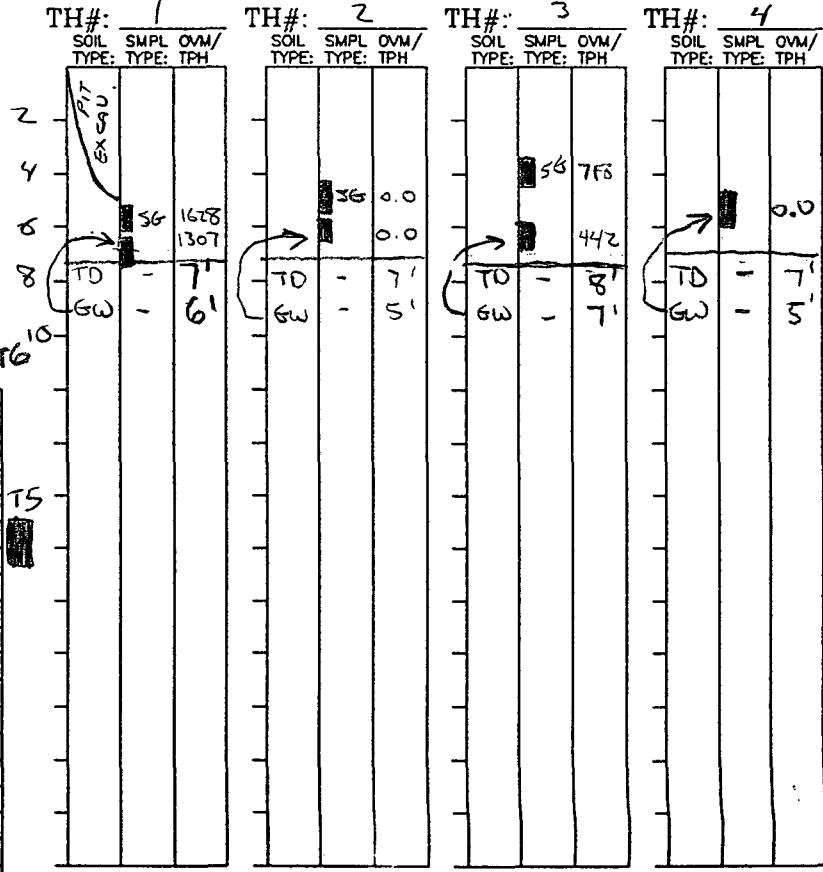
SAMPLE INVENTORY:

100 FT. SOUTH, 20 FT. WEST OF WELLSITE.
1305
(USED WELL W/ GREEN POST SURROUNDING IT,
1300
2 WELLS ON LOCATION).

100 FT. SOUTH, 20 FT. WEST OF WELL HEAD.
(USED WELL w/ GREEN POST SURROUNDING IT,
2 WELLS ON LOCATION).

NOTE: @ TG OPERATOR STRUCK A LARGE BOULDER, CREATING AN IGNITION & FLASH FIRE.
TEST HOLE LOSS.

TEST HOLE LOGS:



SOIL TYPE: C - Clay, M - Str. S - Sand, G - Gravel, P - Plasticity L - None, H - Plastic Grading: P - Poorly, W - Well

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 832-0815

FIELD REPORT: CLOSURE VERIFICATION

JOB No: _____
PAGE No: ____ of ____

LOCATION: LEASE: WELL: QD:
SEC: TWP: RNG: BM: CNTY: ST: PIT:
CONTRACTOR: _____
EQUIPMENT USED: _____

DATE STARTED: _____
DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST: _____

SOIL REMEDIATION: QUANTITY: _____
DISPOSAL FACILITY: _____

LAND USE: _____

SURFACE CONDITIONS: _____

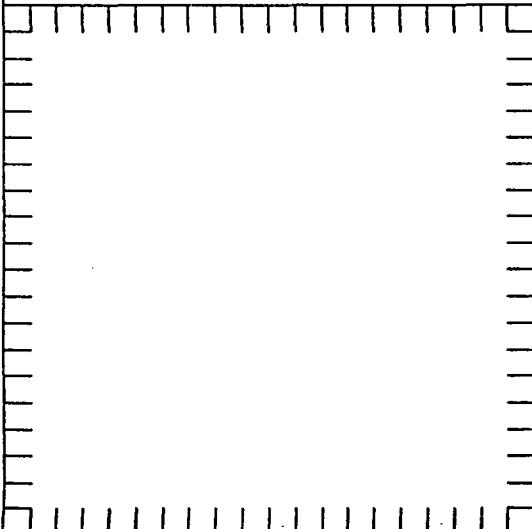
FIELD NOTES & REMARKS:

SCALE



0 FEET

PIT PERIMETER

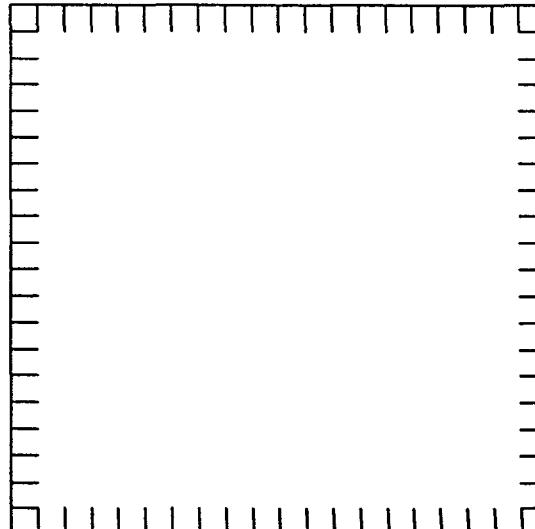


SCALE



0 FEET

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

FIELD REPORT: SITE ASSESSMENT

JOB No: 42140
PAGE No: 2 of 2

PROJECT: PIT ASSESSMENTS & CLOSURE
CLIENT: AMOCO PRODUCTION COMPANY
CONTRACTOR: ENVIROTECH, INC.
EQUIPMENT USED: BACKHOE

DATE STARTED: 5/12/92
DATE FINISHED: 5/12/92
ENVIRO. SPCLT: NV
OPERATOR: PV
ASSISTANT: PV

LOCATION: LSE: MCCOY WELL: GC AIA QD: SE/4 NW/4 (4F)
SEC: TWP: 31N RNG: 10W PM: NM CNTY: SAN JUAN ST: NM PIT: SEP.

LAND USE: RANGE

SURFACE CONDITIONS:

FIELD NOTES & REMARKS:

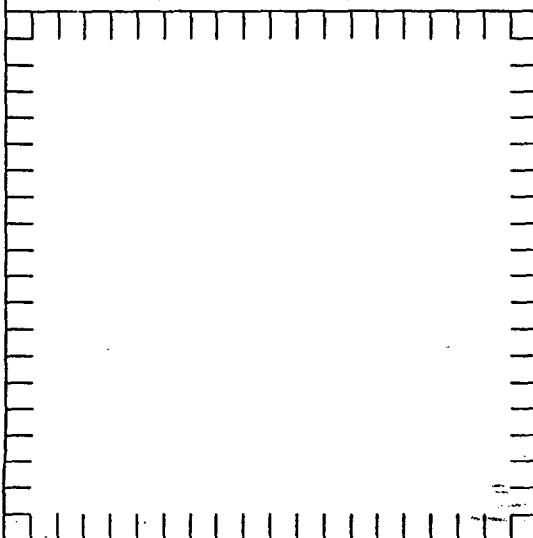
SAMPLE INVENTORY:

SCALE

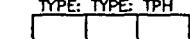
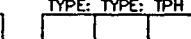
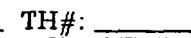
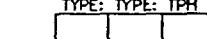
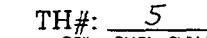


0 FEET

SITE DIAGRAM



TEST HOLE LOGS:



SOIL TYPE: G = Clay, M = Silt, S = Sand, C = Gravel

Photograph 1 - Name: M - Rhod.

Condutor: P = 80000; W = 1000

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0815

FIELD REPORT: CLOSURE VERIFICATION

LOCATION: LEASE: WELL: QD:
SEC: TWP: RNG: BM: CNTY: ST: PIT:
CONTRACTOR: _____
EQUIPMENT USED: _____

JOB No: _____
PAGE No: ____ of ____

SOIL REMEDIATION: QUANTITY: _____

DISPOSAL FACILITY: _____

LAND USE: _____

SURFACE CONDITIONS: _____

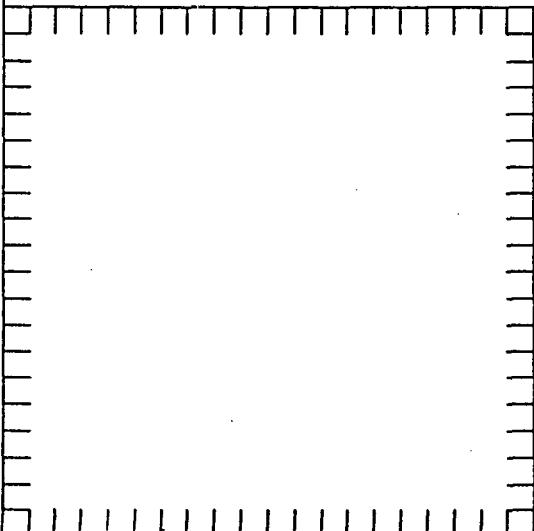
FIELD NOTES & REMARKS:

SCALE



0 FEET

PIT PERIMETER



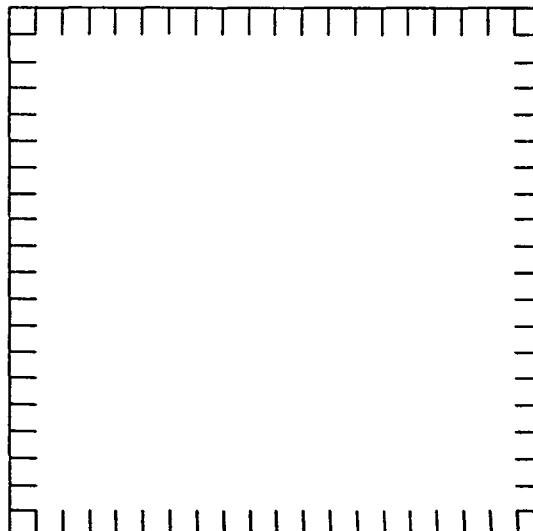
SAMPLE RESULTS

SCALE



0 FEE

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH Inc.

C4143

C.O.C. # 2848

FIELD REPORT: CLOSURE VERIFICATION

Country Pot 2620

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: MCCOY GAS com 'A' WELL: 1A QD: SE/4, NW/4 (F)
SEC: 18 TWP: 31N RNG: 10W BM: PM CNTY: S.J. ST: NM PIT: SEP.?
CONTRACTOR: BILL MOSS
EQUIPMENT USED: J.D. 350 BACKHOE

DATE STARTED: 7-26-93

DATE FINISHED: 7-26-93

ENVIRONMENTAL
SPECIALIST: REO

SOIL REMEDIATION: QUANTITY: APPROX. 40' x 50' x 5' DEEP

DISPOSAL FACILITY: OFF-SITE LANDFILL - SITE UNKNOWN → CATH GC #2

LAND USE: RESIDENTIAL AREA - FORESTED - MEAP ANIMALS RIVER

SURFACE CONDITIONS: PIT EXCAVATED PRIOR TO ARRIVAL - NOTE ENVICOTECH ASSESSMENT # 94143

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 40 YARDS S.60°W. FROM WELLHEAD.

DEPTH TO GROUNDWATER: APPROX. 5 FEET

NEAREST WATER SOURCE: ANIMAS RIVER

NEAREST SURFACE WATER: APPROX. 150 FEET WEST TO ANIMAS RIVER.

NOTE: PPM EXCAVATION COMPLETE JULY 22, 1993. MR. MUSS NOTED SHEEN ON WATER - PUMPED INTO STORAGE TANK ON-SITE FOR SEVERAL DAYS.

WATER SAMPLES COLLECTED IN ALT AND IN TWO TEST HOLES

T1 AND T2 DUG WHILE OBSERVED. T1 NOTED NO VISIBLE CONTAMINATION, NO ODOR OR SHEEN.
T2 HAD BLACK SOIL VISIBLE AT WATER TABLE, AND ODOR OF HYDRO CARBONS. SHEEN ON WATER.

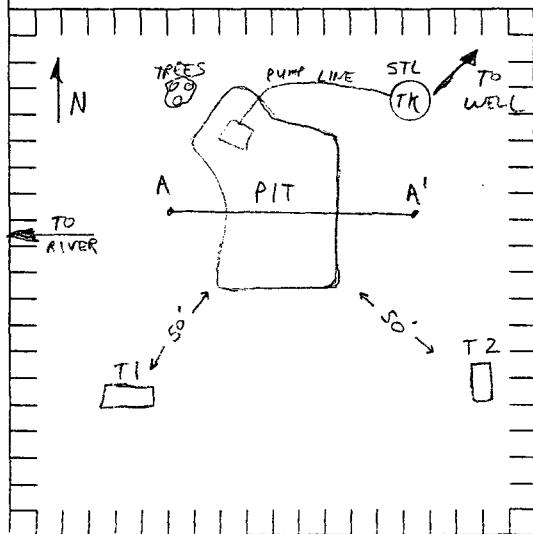
FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

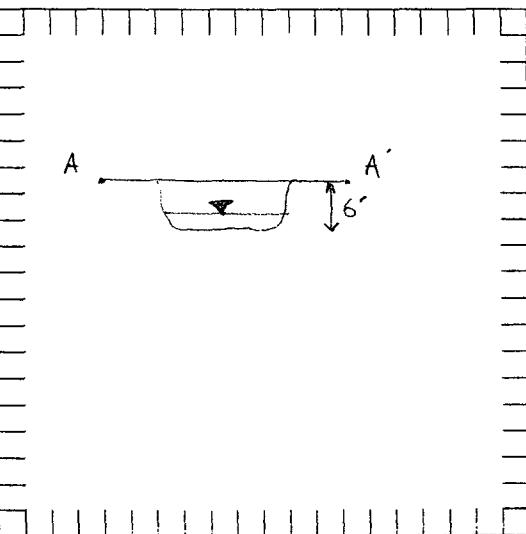
0 20 4

**FEET
PIT PERIMETER**

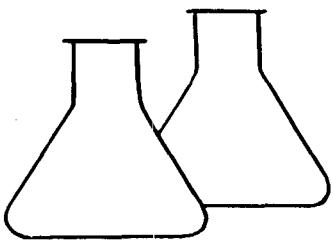


OVM RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: 7-26-93 ONSITE: 7-26-93 0930 HRS,



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:	Pit @ 5'	Date Reported:	07-27-93
Laboratory Number:	5745	Date Sampled:	07-26-93
Sample Matrix:	Water	Date Received:	07-26-93
Preservative:	HgCl & Cool	Date Analyzed:	07-27-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	1.3	0.2
Toluene	3.3	0.4
Ethylbenzene	3.6	0.2
p,m-Xylene	115	0.3
o-Xylene	20.4	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	101 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

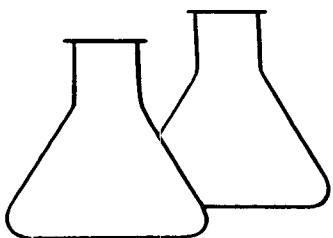
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC A #1A Separator Pit C4143

Devin L. Palmer
Analyst

Monica 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:	T 1 @ 5'	Date Reported:	07-27-93
Laboratory Number:	5746	Date Sampled:	07-26-93
Sample Matrix:	Water	Date Received:	07-26-93
Preservative:	HgCl & Cool	Date Analyzed:	07-27-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	14.0	0.2
Toluene	1.6	0.4
Ethylbenzene	1.2	0.2
p,m-Xylene	2.5	0.3
o-Xylene	1.2	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	88 %
	Bromofluorobenzene	93 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

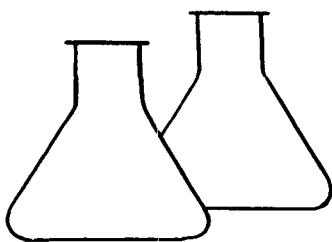
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC A #1A Separator Pit C4143

Dawn L. Gerner
Analyst

Merrill 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:	T 2 @ 6.5'	Date Reported:	07-27-93
Laboratory Number:	5747	Date Sampled:	07-26-93
Sample Matrix:	Water	Date Received:	07-26-93
Preservative:	HgCl & Cool	Date Analyzed:	07-27-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	19.7	0.2
Toluene	82	0.4
Ethylbenzene	234	0.2
p,m-Xylene	910	0.3
o-Xylene	172	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	92 %
	Bromofluorobenzene	94 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: McCoy GC A #1A Separator Pit C4143

Devin L. Givens
Analyst

Morris D. Young
Review

2848

CHAIN OF CUSTODY RECORD

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

COC 2907
C4143

FIELD REPORT: CLOSURE VERIFICATION

JCS No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: MCCOY GAS COM "A" WELL: 1A QD: SE 1/4 NW 1/4 (F)
SEC: 18 TWP: 31N RNG: 10W BM: NMPM CNTY: SJ ST: NM PIT: SEP?
CONTRACTOR: MOSS EXCAVATION
EQUIPMENT USED: TRACK HDE

DATE STARTED: 8-9-93
DATE FINISHED: 8-9-93

ENVIRONMENTAL
SPECIALIST: Ron

SOIL REMEDIATION: QUANTITY:

DISPOSAL FACILITY: OFF-SITE LANDFILL

LAND USE: RESIDENTIAL AREA (RURAL), FORESTED

SURFACE CONDITIONS: TRENCHES ON SITE, NO VISIBLE CONTAMINATION.

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 40 YARDS S60°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 7'
NEAREST WATER SOURCE: UNK
NEAREST SURFACE WATER: 300' (ANIMAS RIVER)

LAB SAMPLES TAKEN FOR BTX

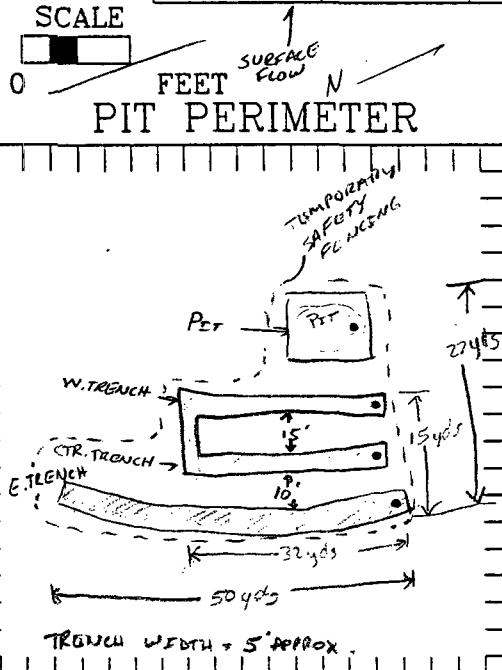
E. TRENCH WATER
CTR. TRENCH WATER
W. TRENCH WATER
PIT WATER.

TRACES OF OILY FREE - PRODUCT
OBSERVED COVERING APPROX
50% - 75% OF WATER
SURFACE.

HEAVY COVERING OF LARGE ORGANIC
DEBRIS, COULD NOT OBSERVE
SURFACE OF WATER.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm



OVM RESULTS

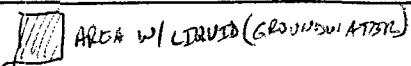
PIT PROFILE

1'-6' Silt/sand
MODERATE TO PALE
YELLOWISH BROWN
SILTY SAND. FIRM.
SL. COHESIVE. NON-PLASTIC.
NO VISIBLE CONTAMINATION
OR APPARENT ODOR.

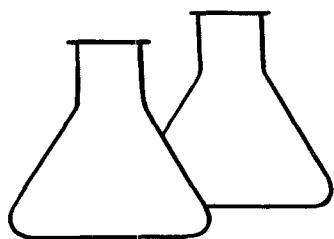
6' 7' SW/SW
WELL GRADED COBBLES/GRAVERS
AND SANDS. VARIOUS COLORS.

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

→ NO VISIBLE STAINING OR APPARENT ABUSE.



• SAMPLE POINT.



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Pit Water	Date Reported:	08-11-93
Laboratory Number:	5861	Date Sampled:	08-09-93
Sample Matrix:	Water	Date Received:	08-10-93
Preservative:	HgCl and Cool	Date Analyzed:	08-10-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	1.5	0.3
Ethylbenzene	1.7	0.2
p,m-Xylene	28.7	0.3
o-Xylene	5.3	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	90 %
	Bromofluorobenzene	94 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

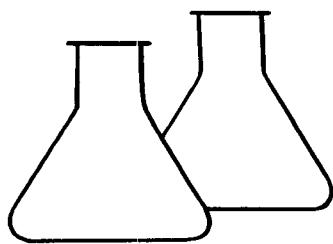
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A, Separator Pit, C4143.

An Chaharay
Analyst

Morris 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:	E.Trench Water	Date Reported:	08-11-93
Laboratory Number:	5862	Date Sampled:	08-09-93
Sample Matrix:	Water	Date Received:	08-10-93
Preservative:	HgCl and Cool	Date Analyzed:	08-10-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	372	0.2
Toluene	366	0.3
Ethylbenzene	7.0	0.2
p,m-Xylene	362	0.3
o-Xylene	203	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	91 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

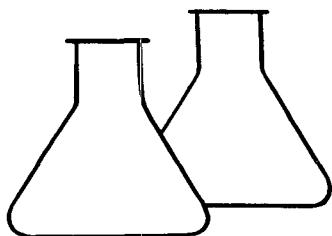
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A, Separator Pit, C4143.

An Shahabzay
Analyst

Morris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	W.Trench Water	Date Reported:	08-11-93
Laboratory Number:	5863	Date Sampled:	08-09-93
Sample Matrix:	Water	Date Received:	08-10-93
Preservative:	HgCl and Cool	Date Analyzed:	08-10-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.3	0.2
Toluene	4.9	0.3
Ethylbenzene	2.4	0.2
p,m-Xylene	37.6	0.3
o-Xylene	2.9	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	91 %
	Bromofluorobenzene	105 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

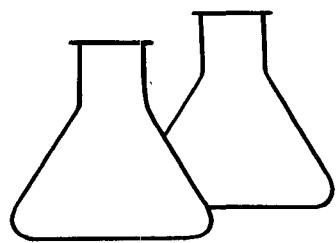
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A, Separator Pit, C4143.

Anil Chahal
Analyst

Morris D Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Ctr Trench Water	Date Reported:	08-11-93
Laboratory Number:	5864	Date Sampled:	08-09-93
Sample Matrix:	Water	Date Received:	08-10-93
Preservative:	HgCl and Cool	Date Analyzed:	08-10-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	35.8	0.2
Toluene	60	0.4
Ethylbenzene	4.6	0.2
p,m-Xylene	315	0.4
o-Xylene	127	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	112 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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.

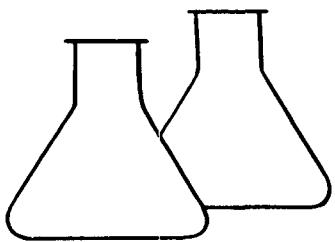
Comments: McCoy GC "A" 1A, Separator Pit, C4143.

Ca Chaharhaj
Analyst

Monica D Young
Review

2907

CHAIN OF CUSTODY RECORD



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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 1	Date Reported:	08-31-93
Laboratory Number:	5973	Date Sampled:	08-30-93
Sample Matrix:	Water	Date Received:	08-30-93
Preservative:	HgCl & Cool	Date Analyzed:	08-31-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (μ g/L)	Det. Limit (μ g/L)
Benzene	ND	0.2
Toluene	0.6	0.4
Ethylbenzene	0.3	0.2
p,m-Xylene	2.6	0.3
o-Xylene	1.6	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	92 %
	Bromofluorobenzene	92 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

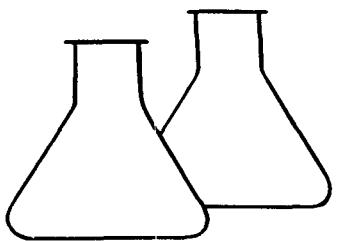
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A Separator Pit C4143

Devin L. Givens
Analyst

Morris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 2 - North	Date Reported:	08-31-93
Laboratory Number:	5974	Date Sampled:	08-30-93
Sample Matrix:	Water	Date Received:	08-30-93
Preservative:	HgCl & Cool	Date Analyzed:	08-31-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	1.1	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	1.4	0.3
o-Xylene	1.2	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	90 %
	Bromofluorobenzene	99 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

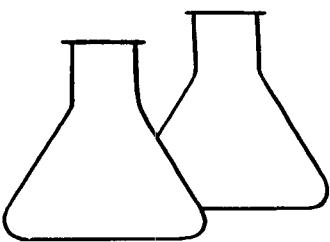
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A Separator Pit C4143

Dennis L. Glance
Analyst

Morris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 2 - South	Date Reported:	08-31-93
Laboratory Number:	5975	Date Sampled:	08-30-93
Sample Matrix:	Water	Date Received:	08-30-93
Preservative:	HgCl & Cool	Date Analyzed:	08-31-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	10.2	0.4
Toluene	830	0.8
Ethylbenzene	9.4	0.4
p,m-Xylene	1,330	0.6
o-Xylene	510	0.4

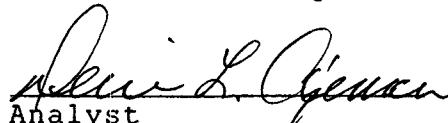
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	91 %
	Bromofluorobenzene	98 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

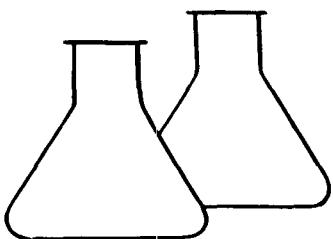
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A Separator Pit C4143


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:	Trench 2 - South	Date Reported:	09-14-93
Laboratory Number:	6072	Date Sampled:	09-10-93
Sample Matrix:	Water	Date Received:	09-10-93
Preservative:	HgCl and Cool	Date Analyzed:	09-14-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	5.1	0.2
Toluene	125	0.4
Ethylbenzene	45.4	0.2
p,m-Xylene	510	0.3
o-Xylene	153	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	102 %

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

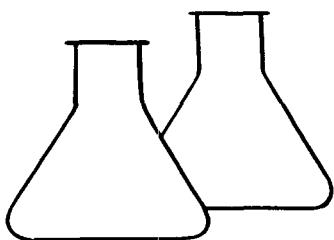
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A C4143

Dennis L. Geiger
Analyst

Marilyn 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:	Trench 3	Date Reported:	08-31-93
Laboratory Number:	5976	Date Sampled:	08-30-93
Sample Matrix:	Water	Date Received:	08-30-93
Preservative:	HgCl & Cool	Date Analyzed:	08-31-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	11.9	0.2
Toluene	179	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	560	0.3
o-Xylene	245	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	91 %
	Bromofluorobenzene	101 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

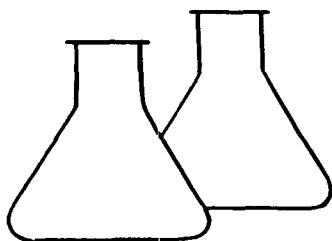
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A Separator Pit C4143

Devin L. O'neal
Analyst

Tommy D. Young
Review



ENVIROTECH LABS

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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 3	Date Reported:	09-14-93
Laboratory Number:	6073	Date Sampled:	09-10-93
Sample Matrix:	Water	Date Received:	09-10-93
Preservative:	HgCl and Cool	Date Analyzed:	09-14-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.4	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	1.8	0.3
o-Xylene	1.2	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	103 %
	Bromofluorobenzene	106 %

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

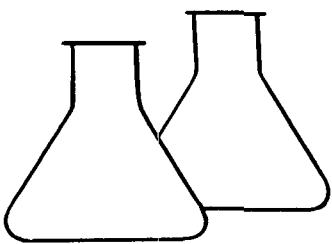
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A C4143

Dennis L. McCoy
Analyst

Morris D. Young
Review



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EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 4	Date Reported:	08-31-93
Laboratory Number:	5977	Date Sampled:	08-30-93
Sample Matrix:	Water	Date Received:	08-30-93
Preservative:	HgCl & Cool	Date Analyzed:	08-31-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	184	0.2
Toluene	520	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	690	0.3
o-Xylene	373	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	93 %
	Bromofluorobenzene	95 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

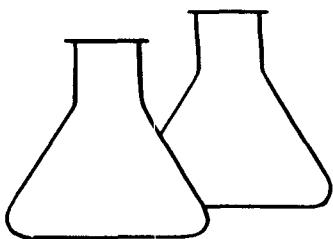
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A Separator Pit C4143

Analyst

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:	Trench 4	Date Reported:	09-14-93
Laboratory Number:	6074	Date Sampled:	09-10-93
Sample Matrix:	Water	Date Received:	09-10-93
Preservative:	HgCl and Cool	Date Analyzed:	09-14-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	44.0	0.2
Toluene	117	0.4
Ethylbenzene	ND	0.2
p,m-Xylene	435	0.3
o-Xylene	170	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	104 %
	Bromofluorobenzene	99 %

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

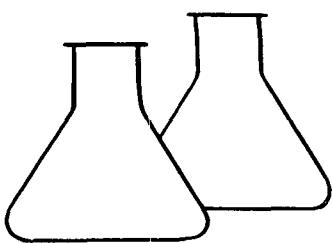
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A C4143

Dennis L. Deaver
Analyst

Michael D. Young
Review



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 4	Date Reported:	09-23-93
Laboratory Number:	6167	Date Sampled:	09-22-93
Sample Matrix:	Water	Date Received:	09-22-93
Preservative:	HgCl and Cool	Date Analyzed:	09-23-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	28.1	0.2
Toluene	3.2	0.3
Ethylbenzene	10.1	0.2
p,m-Xylene	356	0.2
o-Xylene	108	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

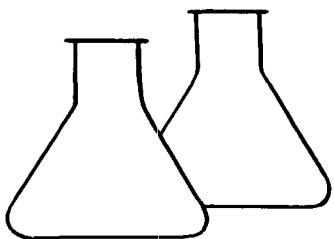
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy Gas Com A - 1A Separator Pit C4143

Sean L. Gleason
Analyst

Dennis 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:	Trench 5	Date Reported:	09-01-93
Laboratory Number:	5978	Date Sampled:	08-30-93
Sample Matrix:	Water	Date Received:	08-30-93
Preservative:	HgCl and Cool	Date Analyzed:	09-01-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	88	0.2
Toluene	278	0.5
Ethylbenzene	5.5	0.2
p,m-Xylene	404	0.6
o-Xylene	197	0.3

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

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

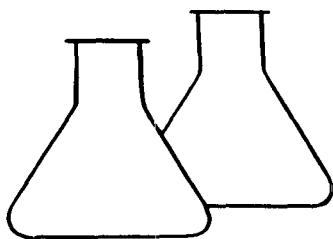
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A Separator Pit C4143

Dennis L. Geiger
Analyst

Dennis D. Young
Review



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 5	Date Reported:	09-14-93
Laboratory Number:	6075	Date Sampled:	09-10-93
Sample Matrix:	Water	Date Received:	09-10-93
Preservative:	HgCl and Cool	Date Analyzed:	09-14-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.3	0.2
Toluene	2.2	0.4
Ethylbenzene	2.4	0.2
p,m-Xylene	51	0.3
o-Xylene	5.0	0.2

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	103 %
	Bromofluorobenzene	101 %

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

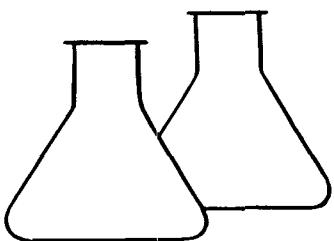
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A C4143

Analyst

Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 6	Date Reported:	09-01-93
Laboratory Number:	5979	Date Sampled:	08-30-93
Sample Matrix:	Water	Date Received:	08-30-93
Preservative:	HgCl and Cool	Date Analyzed:	09-01-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.4	0.2
Toluene	2.4	0.5
Ethylbenzene	ND	0.2
p,m-Xylene	7.1	0.6
o-Xylene	4.3	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	103 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

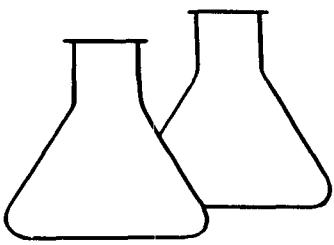
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: McCoy GC "A" 1A Separator Pit C4143

David L. Givens
Analyst

Morris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Trench 7	Date Reported:	09-01-93
Laboratory Number:	5980	Date Sampled:	08-30-93
Sample Matrix:	Water	Date Received:	08-30-93
Preservative:	HgCl and Cool	Date Analyzed:	09-01-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	0.3	0.2
Toluene	2.3	0.5
Ethylbenzene	2.1	0.2
p,m-Xylene	36.4	0.6
o-Xylene	10.2	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	102 %
	Bromofluorobenzene	104 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

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: McCoy GC "A" 1A Separator Pit C4143

Daniel L. Geiger
Analyst

Morris D. Young
Review

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CHAIN OF CUSTODY RECORD

Client/Project Name <i>Anoco 92140</i>		Project Location <i>McCoy GC "A" 1A</i>		Sampling Date <i>Sep 94</i>		Sample ID <i>C4143</i>		ANALYSIS/PARAMETERS			
Sampler: (Signature) <i>Roberth Young</i>		Chain of Custody Tape No.						Remarks			
Sample No./Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Container Type	Date	Time	Received by: (Signature)	Date	Time
TRENCH 1	8-30-93	1100	5973	WATER	2	✓					
TRENCH 2-NORTH	8-30-93	1110	5974	WATER	2	✓					
TRENCH 2-SOUTH	8-30-93	1120	5975	WATER	2	✓					
TRENCH 3	8-30-93	1130	5976	WATER	2	✓					
TRENCH 4	8-30-93	1140	5977	WATER	2	✓					
TRENCH 5	8-30-93	1150	5978	WATER	2	✓					
TRENCH 6	8-30-93	1200	5979	WATER	2	✓					
TRENCH 7	8-30-93	1210	5980	WATER	2	✓					
Relinquished by: (Signature) <i>Roberth Young</i>		Received by: (Signature) <i>Chabotky</i>									
Relinquished by: (Signature) <i>Roberth Young</i>		Received by: (Signature) <i>Chabotky</i>									
Relinquished by: (Signature) <i>Roberth Young</i>		Received by: (Signature) <i>Chabotky</i>									

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

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CHAIN OF CUSTODY RECORD

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CHAIN OF CUSTODY RECORD