

ORIGINAL  
(Red)

107165

APPENDIX A  
SOIL BORING LOGS

AR100608

ORIGINAL  
(Red)



**TEST BORING LOG**

SHEET 1 OF 1  
 BORING NO: SB-1  
 PROJECT NO: 00-5681-02  
 DATE DRILL: 12/21/87  
 DRILLING METHOD: Hollow Stem Auger  
 TOTAL DEPTH: 5.8'

PROJECT: Thompson, 120 Mill Street  
 BORING LOCATION: Front of Building 1  
 DRILLING CONTRACTOR: John Mathes & Associates  
 BORING DIAMETER: 8"      SAMPLING METHOD: 2" Split Spoon

BACKFILL MATERIAL AND METHOD: Cuttings/Cement Cap

LOGGED BY: Steve Kemp      DEPTH TO STATIC WATER: NA FT. BELOW GRADE

REMARKS: Collected soil samples for chemical analysis from 1.5-2.0 and 5.0-5.5 feet below grade. Auger refusal at 5.5 feet below grade. HNu readings are in parentheses after the appropriate sample interval.

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (in.)	CLASSIFICATION
0-3.0	0-2 (2)	1,3,2,3	18	<u>SILT</u> : trace clay and fine sand, brown, damp.
3.0-5.5	2-4 (3)	3,5,9,12	16	<u>SILT</u> : trace clay, brown, wet, brick fragment.
5.5-5.8	4-6 (3)	15,19,4 50/4	14	<u>SHALE/SILT STONE</u> : gray, drv.
5.8				END OF BORING

AR100609

ORIGINAL  
(Red)



**TEST BORING LOG**

SHEET 1 OF 1  
 BORING NO: SB-2  
 PROJECT NO: 00-5681-02  
 DATE(S) DRILLED: 12/21/87  
 DRILLING METHOD: Hollow Stem Auger  
 TOTAL DEPTH: 9.8'

PROJECT: Thompson, 120 Mill Street

BORING LOCATION: North of Building 1

DRILLING CONTRACTOR: John Mathes & Associates

BORING DIAMETER: 8"      SAMPLING METHOD: 2" Split Spoon

BACKFILL MATERIAL AND METHOD: Cuttings/Cement Cap

LOGGED BY: Steve Kemp

DEPTH TO STATIC WATER: NA FT. BELOW GRADE

REMARKS: Collected soil samples for chemical analysis from 4.0-6.0 and 6.0-8.0 feet below grade. HNu readings are in parentheses after the appropriate sample interval.

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (in.)	CLASSIFICATION
	0-2 (0)	10,5,6,4	0	2" ASPHALT
2.0-3.5	2-4 (0)	12,4,4,7	12	<u>SILT</u> : some clay, trace coarse sand, brown, damp.
3.5-4.0				<u>SILT</u> : some red shale fragments, trace clay, red brown, damp.
4.0-8.0	4-6 (15) 6-8 (2)	8,8,9,10 5,9,11,15	24 24	<u>SILT</u> : some sand and red shale fragments, trace fine gravel, brown, dry to slightly moist.
8.0-9.5	8-10(0)	7,9,19, 50/2	24	<u>SILT</u> : trace clay, gravel, and shale fragments, red brown.
9.5-9.8				<u>SILTSTONE FRAGMENTS</u> : brown/grey, dry.
9.8				END OF BORING

AR100610



# TEST BORING LOG

SHEET 1 OF 1

ORIGINAL  
(Red)

BORING NO: SB-3

PROJECT: Thompson, 120 Mill Street

PROJECT NO: 00-5681-02

BORING LOCATION: NW of Building 1

DATE(S)  
DRILLED: 12/21/87

DRILLING CONTRACTOR: John Mathes & Associates

DRILLING  
METHOD: Hollow Stem Auger

BORING  
DIAMETER: 8"

SAMPLING  
METHOD: 2" Split Spoon

TOTAL  
DEPTH: 9.2'

BACKFILL MATERIAL AND METHOD: Cuttings/Cement Cap

LOGGED BY: Steve Kemp

DEPTH TO  
STATIC WATER: NA FT. BELOW GRADE

REMARKS: Collected soil samples for chemical analysis from 5.5-6.0 and 6.5-7.0 feet below grade. HNu readings are in parentheses after the appropriate sample interval.

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (in.)	CLASSIFICATION
0-0.2	0-2 (0)	---7,9	12	ASPHALT
0.2-1.0				<u>GRAVEL</u> : coarse, angular
1.0-3.0	2-4 (0)	12,19,21,23	8	<u>SILT</u> : trace clay and red shale fragments, brown dry. .
3.0-6.0	4-6 (1)	9,13,17,28	20	<u>SILT</u> : trace subrounded gravel and red shale fragments, brown, dry.
6.0-7.0	7-8 (0)	9,19,31,41		<u>SAME</u> : wet.
7.0-8.0				<u>SHALE</u> : red, weathered.
8.0-9.2	8-10 (0)	7,11,50/2		<u>SHALE</u> : brown, weathered.

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(Red)



**TEST BORING LOG**

SHEET 1 OF 1

BORING NO: SB-4

PROJECT: Thompson, 120 Mill Street

PROJECT NO: 00-5681-02

BORING LOCATION: Behind Building 1

DATE(S) DRILLED: 12/21/87

DRILLING CONTRACTOR: John Mathes & Associates

DRILLING METHOD: Hollow Stem Auger

BORING DIAMETER: 8"

SAMPLING METHOD: 2" Split Spoon

TOTAL DEPTH: 9.1'

BACKFILL MATERIAL AND METHOD: Cuttings/Cement Cap

LOGGED BY: Steve Kemp

DEPTH TO STATIC WATER: NA FT. BELOW GRADE

REMARKS: Collected soil samples for chemical analysis from 1.5-2.0 and 8.0-9.0 below grade. Collected duplicate of 8.0-9.0 sample and labelled SB-4A/8.0-9.0. HNu readings are in parentheses after the appropriate sample interval.

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (in.)	CLASSIFICATION
0-1.5	0-2 (5)	_,_,_, 7	6	<u>ASPHALT AND GRAVEL</u>
1.5-4.2	2-4 (0)	7,9,9,11	0	<u>SILT</u> : brown-gray, damp.
4.2-8.2	4-6 (3) 6-8 (0)	7,5,6,8 9,10,10,15	22 2	<u>SILT</u> : some fine gravel, trace clay, red with tan streaks, moist.
8.2-9.1	8-10 (5)	31,15,50/2	14	<u>SHALE</u> : brown with some red, weathered.

AR100612



# TEST BORING LOG

SHEET 1 OF 1

BORING NO: SB-5

PROJECT: Thompson, 120 Mill Street

PROJECT NO: 00-5681-02

BORING LOCATION: Directly behind Building 1

DATE(S) DRILLED: 12/21/77

DRILLING CONTRACTOR: John Mathes & Associates

DRILLING METHOD: Hollow Stem Auger

BORING DIAMETER: 8" SAMPLING METHOD: 2" Split Spoon

TOTAL DEPTH: 9.5'

BACKFILL MATERIAL AND METHOD: Cuttings/Cement Cap

LOGGED BY: Steve Kemp

DEPTH TO STATIC WATER: NA FT. BELOW GRADE

REMARKS: Collected soil samples for chemical analysis from 1.5-2.0, 6.0-6.5 feet and 9.0-9.5. HNu readings are in parentheses after the appropriate sample interval.

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (in.)	CLASSIFICATION
0-0.2	0-2 (2)	6,4,4,5	8	<u>ASPHALT</u>
0.2-1.0				<u>GRAVEL</u> : coarse, angular.
1.0-3.2	2-4 (3)	6,2,2,5	16	<u>SILT</u> : trace clay, brown, damp.
3.2-6.0	4-6 (0)	7,8,8,11	12	<u>SILT</u> : some fine sand and red shale fragments, trace clay and tan silt, red, damp.
6.0-7.0	6-8 (10)	13,17,21,4	16	<u>SILTY CLAY</u> : brown, damp.
7.0-9.0	8-10(0)	17,31,50/5	12	<u>SILT</u> : same as 3.2-6.0.
9.0-9.5				<u>SILT</u> : same as 7.0-9.0 with crushed asphalt or cinders.

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APPENDIX B  
CHAIN-OF-CUSTODY FORM

AR100614



CHAIN OF CUSTODY RECORD

PROJ NO.		PROJECT NAME		NO. OF CONTAINERS	SAMPLE TYPE KEY AQ-Aqueous S-Solid A-Air L-Liquid O-Other	SAMPLING REMARKS	
5681-02		Thompson					
SAMPLERS. (Signature)				STATION LOCATION	TYPE		
STA. NO.	DATE	TIME	COMP. GRAB				
1	12-21-87	11:00	X	SB-1 / 1.5-2	S	VALID 568-8010	
2	12-21-87	11:00	X	SB-1 / 5-5.5	S		
3	12-21-87	12:00	X	SB-2 / 4-6	S		
4	12-21-87	12:15	X	SB-2 / 6-8	S		
5	12-21-87	15:00	X	SB-3 / 5.5-6	S		
6	12-21-87	15:00	X	SB-3 / 6.5-7	S		
7	12-21-87	16:00	X	SB-4 / 1.5-2	S		
8	12-21-87	16:00	X	SB-4 / 8-1	S		
9	12-21-87	16:00	X	SB-4A / 8-1	S		
10	12-21-87		X	SB-5 / 1.5-2	S		
11	12-21-87	16:50	X	SB-5 / 6-6.5	S		
12	12-21-87	16:50	X	SB-5 / 9-9.5	S		
13	12-21		X	Field Blank	Air		
14	12-21		X	Trip Blank	Air		
Emples dispatched by:				Date/Time	Received by: (Signature)	Date/Time	Received by: (Signature)
12-21-87				12:00	<i>[Signature]</i>		
Relinquished by: (Signature)				Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time	(Shipping/Receiving) Remarks

Distribute Original Accompanies Shipment, Copy to Coordinator, COPY TO PROJECT MANAGER

ORIGINAL (Red)



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APPENDIX C  
ANALYTICAL TABLES

15-11-1945

AR100616

TABLE 1

## ANALYTICAL RESULTS - SOIL SAMPLES

THOMPSON PROPERTY  
120 MILL STREET  
DUBLIN, PENNSYLVANIA

Parameter	SB-1 1.5-2.0 A31393	SB-1 5.0-5.5 A31394	SB-2 4.0-6.0 A31395	SB-2 6.0-8.0 A31396	SB-3 5.5-6.0 A31397	SB-3 6.5-7.0 A31398	SB-4 1.5-2.0 A31399	SB-4 8.0-9.0 A31400	SB-4A 8.0-9.0 A31401	SB-5 1.5-2.0 A31402	SB-5 6.0-6.5 A31403	SB-5 9.0-9.5 A31404
1,2-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.51	0.10
1,4-Dichlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.25	<0.01	0.04
Benzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromoform	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlorobenzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01
Dibromochloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloroform	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cis-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trans-1,3-Dichloropropene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethyl Benzene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.40	0.14	0.13
Bromomethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(Methyl Bromide)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloromethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(Methyl Chloride)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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ABLE 1 (Continued)

Parameter	SB-1 1.5-2.0 A31393	SB-1 5.0-5.5 A31394	SB-2 4.0-6.0 A31395	SB-2 6.0-8.0 A31396	SB-3 5.5-6.0 A31397	SB-3 6.5-7.0 A31398	SB-4 1.5-2.0 A31399	SB-4 8.0-9.0 A31400	SB-4A 8.0-9.0 A31401	SB-5 1.5-2.0 A31402	SB-5 6.0-6.5 A31403	SB-5 9.0-9.5 A31404
Methylene Chloride	<0.01	<0.01	0.07	0.21	0.11	0.2	0.18	0.08	0.12	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-Trichloroethane (PCE)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.33	0.15	0.09
trans-1,2-Dichloroethene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.43	0.09	<0.01	<0.01
1,1,1-Trichloroethane	<0.01	0.02	0.02	0.04	<0.01	0.04	0.03	<0.01	0.02	<0.01	<0.01	<0.01
1,1,2-Trichloroethane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethene (TCE)	0.04	<0.01	<0.01	0.02	<0.01	0.11	<0.01	0.82	0.98	0.03	0.03	0.14
Trichlorofluoromethane	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.32	<0.04	<0.01
Vinyl Chloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Concentrations in microgram/kilogram (ug/kg)

Source: BCM Eastern Inc. (Project No. 00-5681-02)

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ORIGINAL  
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TABLE 2  
ANALYTICAL RESULTS  
FIELD QUALITY ASSURANCE/QUALITY CONTROL SAMPLES \*

THOMPSON PROPERTIES  
120 MILL STREET  
DUBLIN, PENNSYLVANIA

Sample I.D.: BCM Number:	Field Blank A31405	Trip Blank A31406
1,2-Dichlorobenzene	<0.01	<0.01
1,3-Dichlorobenzene	<0.01	<0.01
1,4-Dichlorobenzene	<0.01	<0.01
Benzene	<0.01	<0.01
Bromoform	<0.01	<0.01
Carbon Tetrachloride	<0.01	<0.01
Chlorobenzene	<0.01	<0.01
Dibromochloromethane	<0.01	<0.01
Bromodichloromethane	<0.01	<0.01
Chloroethane	<0.01	<0.01
Chloroform	<0.01	<0.01
1,1-Dichloroethane	<0.01	<0.01
1,2-Dichloroethane	<0.01	<0.01
1,1-Dichloroethene	<0.01	<0.01
1,2-Dichloropropane	<0.01	<0.01
Cis-1,3-Dichloropropene	<0.01	<0.01
Trans-1,3-Dichloropropene	<0.01	<0.01
Ethyl Benzene	<0.01	<0.01
Bromomethane (Methyl Bromide)	<0.01	<0.01
Chloromethane (Methyl Chloride)	<0.01	<0.01
Methylene Chloride	<0.01	0.03
1,1,2,2-Tetrachloroethane	<0.01	<0.01
Tetrachloroethene (PCE)	<0.01	<0.01
Toluene	<0.01	<0.01
1,1,1-Trichloroethane	0.02	0.02
1,1,2-Trichloroethane	<0.01	<0.01
Trichloroethene (TCE)	<0.01	<0.01
Trichlorofluoromethane	<0.01	<0.01
Vinyl Chloride	<0.01	<0.01

\* All concentrations in milligrams/kilogram (mg/kg)

Source: BCM Eastern Inc. (Project No. 00-5681-02)

AR100619

ORIGINAL  
(Red)

APPENDIX D  
BCM LABORATORY REPORTS

AR100620



# BCM Laboratory Division

1850 Gravers Road  
Norristown, PA 19401  
(215) 275-0281

PLEASE REMIT CHECKS TO:  
BCM Eastern Inc.  
1 PLYMOUTH MEETING  
PLYMOUTH MEETING, PA 19462  
215-825-3800

## FINAL REPORT

This is a final report.  
The results have been checked and authorized for release.

PAGE :

ORIGINAL  
(Red)

### CLIENT

Thompson  
Attn: Steve Kemp  
DD-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31393  
Location : SB-1  
Client ID : 1.5-2

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
			EPA# 8010/20
Purgeable Organics by GC			
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	0.01	mg/kg	
Ethyl Benzene	0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	< 0.01	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	< 0.01	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	< 0.01	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	0.04	mg/kg	

AR100621



# BCM Laboratory Division

1850 Gravers Road  
Norristown, PA 19401  
(215) 275-0281

PLEASE REMIT CHECKS TO:  
BCM Eastern Inc.  
1 PLYMOUTH MEETING  
PLYMOUTH MEETING, PA 19462  
215-825-3800

## FINAL REPORT

This is a final report.  
The results have been checked and authorized for release.

PAGE : 2

*ORIGINAL  
filed*

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31393  
Location : SB-1  
Client ID : 1.5-2

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Trichlorofluoromethane	0.02	mg/kg	EPA# 8010/20
Vinyl Chloride	< 0.01	mg/kg	

AR100622



# BCM Laboratory Division

1850 Gravers Road  
Norristown, PA 19401  
(215) 275-0281

PLEASE REMIT CHECKS TO:  
BCM Eastern Inc.  
1 PLYMOUTH MEETING  
PLYMOUTH MEETING, PA 19462  
215-825-3800

ORIGINAL  
(Red)

## FINAL REPORT

This is a final report.

The results have been checked and authorized for release.

PAGE : 3

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31394  
Location : SF-1  
Client ID : 5.0-5.5

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	< 0.01	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	0.07	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	0.02	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	< 0.01	mg/kg	

AR100623





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ORIGINAL  
(Red)

## FINAL REPORT

PAGE : 4

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The results have been checked and authorized for release.

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/86  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31394  
Location : SB-1  
Client ID : 5.0-5.5

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Trichlorofluoromethane	< 0.01	mg/kg	EPA# 9010/20
Vinyl Chloride	< 0.01	mg/kg	

AR100624



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PAGE : 5

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31395  
Location : SB-2  
Client ID : 4-6

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	0.07	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	< 0.01	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	0.02	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	< 0.01	mg/kg	

AR100625



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PAGE : 6

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31395  
Location : SB-2  
Client ID : 4-6

Date Sampled : 12/21/87  
Date Received : 12/22/87

### Test Description

### Results

### Units Test Method

-----  
Trichlorofluoromethane  
Vinyl Chloride

< 0.01  
< 0.01

mg/kg EPA# 8010/20  
mg/kg

AR100626



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12/22/87

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PAGE : 7

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31396  
Location : SB-2  
Client ID : 6-8

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
			EPA# 8010/20
Purgeable Organics by GC			
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	0.21	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	< 0.01	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	0.04	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	0.02	mg/kg	

AR100627

AR100627

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PAGE : 8

**CLIENT**Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM TrentonDate : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008BCM Number : A31396  
Location : SB-2  
Client ID : 6-8Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Trichlorofluoromethane	< 0.01	mg/kg	EPA# 8010/20
Vinyl Chloride	< 0.01	mg/kg	

AR100628



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PAGE : 9

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31397  
Location : SB-3  
Client ID : 5.5-6

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	0.11	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	< 0.01	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	< 0.01	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	< 0.01	mg/kg	

AR10062

PAYMENT IS DUE UPON RECEIPT OF INVOICE. PAST DUE AMOUNTS OVER 30 DAYS WILL BE SUBJECT TO AN INTEREST RATE OF 18% PER ANNUM.

AR100629



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PAGE : 10

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### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31397  
Location : SB-3  
Client ID : 5.5-6

Date Sampled : 12/21/87  
Date Received : 12/22/87

### Test Description

### Results

### Units Test Method

-----  
Trichlorofluoromethane  
Vinyl Chloride

< 0.01  
< 0.01

mg/kg EPA# 8010/20  
mg/kg

AR100630



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### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31398  
Location : SB-3  
Client ID : 6.5-7

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	0.2	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	< 0.01	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	0.04	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	0.11	mg/kg	

AR100631

AR100631





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PAGE : 12

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### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31398  
Location : SB-3  
Client ID : 6.5-7

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Trichlorofluoromethane	< 0.01	ng/kg	EPA# 8010/20
Vinyl Chloride	< 0.01	ng/kg	

AR100632



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### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCh Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31399  
Location : SB-4  
Client ID : 1.5-2

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	ng/kg	
1,3-Dichlorobenzene	< 0.01	ng/kg	
1,4-Dichlorobenzene	< 0.01	ng/kg	
Benzene	< 0.01	ng/kg	
Bromoform	< 0.01	ng/kg	
Carbon Tetrachloride	< 0.01	ng/kg	
Chlorobenzene	< 0.01	ng/kg	
Dibromochloromethane	< 0.01	ng/kg	
Bromodichloromethane	< 0.01	ng/kg	
Chloroethane	< 0.01	ng/kg	
Chloroform	< 0.01	ng/kg	
1,1-Dichloroethane	< 0.01	ng/kg	
1,2-Dichloroethane	< 0.01	ng/kg	
1,1-Dichloroethene	< 0.01	ng/kg	
1,2-Dichloropropane	< 0.01	ng/kg	
Cis-1,3-Dichloropropene	< 0.01	ng/kg	
Trans-1,3-Dichloropropene	< 0.01	ng/kg	
Ethyl Benzene	< 0.01	ng/kg	
Bromomethane (Methyl Bromide)	< 0.01	ng/kg	
Chloromethane (Methyl Chloride)	< 0.01	ng/kg	
Methylene Chloride	0.18	ng/kg	
1,1,2,2-Tetrachloroethane	< 0.01	ng/kg	
Tetrachloroethene (PCE)	< 0.01	ng/kg	
Toluene	< 0.01	ng/kg	
Trans-1,2-Dichloroethene	< 0.01	ng/kg	
1,1,1-Trichloroethane	0.03	ng/kg	
1,1,2-Trichloroethane	< 0.01	ng/kg	
Trichloroethene (TCE)	< 0.01	ng/kg	

AR100633



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## FINAL REPORT

PAGE : 14

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### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31399  
Location : SB-4  
Client ID : 1.5-2

Date Sampled : 12/21/87  
Date Received : 12/22/87

### Test Description

### Results

### Units Test Method

-----  
Trichlorofluoromethane  
Vinyl Chloride

-----  
< 0.01  
< 0.01

-----  
mg/kg EPA# 8010/20  
mg/kg

AR100634

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PAGE : 15

**CLIENT**Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM TrentonDate : 02/10/88  
BCM # : 00-5681-01  
P. :  
Order# : 19008BCM Number : A31400  
Location : SB-4  
Client ID : 8-9Date Sample : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	0.08	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	< 0.01	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	< 0.01	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	0.82	mg/kg	

AR100635



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PAGE : 16

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### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31400  
Location : SB-4  
Client ID : 8-9

Date Sampled : 12/21/87  
Date Received : 12/22/87

### Test Description

### Results

### Units Test Method

-----  
Trichlorofluoromethane  
Vinyl Chloride

-----  
< 0.01  
< 0.01

-----  
mg/kg EPA# 8010/20  
mg/kg

AR100636



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PAGE : 17

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31401  
Location : SB-4A  
Client ID : 8-9

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	0.02	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	0.12	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	< 0.01	mg/kg	
Trans-1,2-Dichloroethene	0.43	mg/kg	
1,1,1-Trichloroethane	0.02	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	0.98	mg/kg	

AR100637



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215-825-3800

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## FINAL REPORT

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PAGE : 18

## CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31401  
Location : SB-4A  
Client ID : 8-9

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Trichlorofluoromethane	< 0.01	mg/kg	EPA# 8010/20
Vinyl Chloride	< 0.01	mg/kg	

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PAGE : 19

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### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31402  
Location : SB-5  
Client ID : 1.5-2

Date Sampled : 2/21/87  
Date Received : 2/22/87

Test Description	Results	Units	Test Method
			EPA# 8010/20
Purgeable Organics by GC			
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	0.25	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	0.04	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	0.40	mg	
Bromomethane (Methyl Bromide)	< 0.01	mg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	< 0.01	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	0.33	mg	
Trans-1,2-Dichloroethene	0.09	mg/kg	
1,1,1-Trichloroethane	< 0.01	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	0.03	mg/kg	

AR100639





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PAGE : 20

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31402  
Location : SB-5  
Client ID : 1.5-2

Date Sampled : 12/21/87  
Date Received : 12/22/87

### Test Description

-----  
Trichlorofluoromethane  
Vinyl Chloride

Results	Units	Test Method
< 0.01	mg/kg	EPA# 8010/20
0.32	mg/kg	

AR100640



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PAGE : 21

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31403  
Location : SB-5  
Client ID : 6.-6.5

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
			EPA# 8010/20
Purgeable Organics by GC			
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	0.51	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	0.04	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	0.14	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	< 0.01	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	0.15	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	< 0.01	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	0.03	mg/kg	

AR 100641



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PAGE : 22

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### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31403  
Location : SB-5  
Client ID : 6.-6.5

Date Sampled : 12/21/87  
Date Received : 12/22/87

### Test Description

### Results

### Units Test Method

-----  
Trichlorofluoromethane  
Vinyl Chloride

-----  
< 0.01  
0.04

-----  
mg/kg EPA# 8010/20  
mg/kg

AR100642

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PAGE : 23

**CLIENT**Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM TrentonDate : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008BCM Number : A31404  
Location : SB-5  
Client ID : 9.-9.5Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	0.10	mg/kg	
1,4-Dichlorobenzene	0.04	mg/kg	
Benzene	< 0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	0.13	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	< 0.01	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	0.09	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	< 0.01	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	0.14	mg/kg	

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**CLIENT**Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM TrentonDate : 02/10/88  
BCM # : 00-5681-01  
P.D.# :  
Order# : 19008BCM Number : A31404  
Location : SB-5  
Client ID : 9.-9.5Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Trichlorofluoromethane	< 0.01	mg/kg	EPA# 8010/20
Vinyl Chloride	< 0.01	mg/kg	

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PAGE : 25

### CLIENT

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Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31405  
Location : FIELD  
Client ID : BLANK

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
			EPA# 8010/20
Purgeable Organics by GC			
1,2-Dichlorobenzene	< 0.01	ng/kg	
1,3-Dichlorobenzene	< 0.01	ng/kg	
1,4-Dichlorobenzene	< 0.01	ng/kg	
Benzene	< 0.01	ng/kg	
Bromoform	< 0.01	ng/kg	
Carbon Tetrachloride	< 0.01	ng/kg	
Chlorobenzene	< 0.01	ng/kg	
Dibromochloromethane	< 0.01	ng/kg	
Bromodichloromethane	< 0.01	ng/kg	
Chloroethane	< 0.01	ng/kg	
Chloroform	< 0.01	ng/kg	
1,1-Dichloroethane	< 0.01	ng/kg	
1,2-Dichloroethane	< 0.01	ng/kg	
1,1-Dichloroethene	< 0.01	ng/kg	
1,2-Dichloropropane	< 0.01	ng/kg	
Cis-1,3-Dichloropropene	< 0.01	ng/kg	
Trans-1,3-Dichloropropene	< 0.01	ng/kg	
Ethyl Benzene	< 0.01	ng/kg	
Bromomethane (Methyl Bromide)	< 0.01	ng/kg	
Chloromethane (Methyl Chloride)	< 0.01	ng/kg	
Methylene Chloride	< 0.01	ng/kg	
1,1,2,2-Tetrachloroethane	< 0.01	ng/kg	
Tetrachloroethene (PCE)	< 0.01	ng/kg	
Toluene	< 0.01	ng/kg	
Trans-1,2-Dichloroethene	< 0.01	ng/kg	
1,1,1-Trichloroethane	0.02	ng/kg	
1,1,2-Trichloroethane	< 0.01	ng/kg	
Trichloroethene (TCE)	< 0.01	ng/kg	

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## CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31405  
Location : FIELD  
Client ID : BLANK

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Trichlorofluoromethane	< 0.01	mg/kg	EPA# 8010/20
Vinyl Chloride	< 0.01	mg/kg	

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### CLIENT

Thompson  
Attn: Steve Kemp  
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Date : 02/10/88  
BCM # : 00-5681-01  
P.O.#  
Order# : 19008

BCM Number : A31406  
Location : TRIP  
Client ID : BLANK

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Purgeable Organics by GC			AW 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	0.01	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
1,1-Dibromochloroethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	< 0.01	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropane	< 0.01	mg/kg	
Trans-1,3-Dichloropropane	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	0.03	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	< 0.01	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	0.02	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	< 0.01	mg/kg	

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**CLIENT**Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM TrentonDate : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008BCM Number : A31406  
Location : TRIP  
Client ID : BLANKDate Sampled : 12/21/87  
Date Received : 12/22/87**Test Description****Results****Units Test Method**-----  
Trichlorofluoromethane  
Vinyl Chloride< 0.01  
< 0.01mg/kg EPA# 8010/20  
mg/kg

AR100648



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PAGE : 29

### CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 02/10/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19008

BCM Number : A31406  
Location : TRIP  
Client ID : BLANK

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
------------------	---------	-------	-------------

End of Report

Certified by :

BCM Eastern Laboratory Director

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Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 01/29/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19009

BCM Number : A31407

Date Sampled : 12/21/87

Location : METHOD

Date Received : 12/22/88

Client ID : BLANK

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	< 0.01	mg/kg	
1,3-Dichlorobenzene	< 0.01	mg/kg	
1,4-Dichlorobenzene	< 0.01	mg/kg	
Benzene	0.04	mg/kg	
Bromoform	< 0.01	mg/kg	
Carbon Tetrachloride	< 0.01	mg/kg	
Chlorobenzene	< 0.01	mg/kg	
Dibromochloromethane	< 0.01	mg/kg	
Bromodichloromethane	< 0.01	mg/kg	
Chloroethane	< 0.01	mg/kg	
Chloroform	0.02	mg/kg	
1,1-Dichloroethane	< 0.01	mg/kg	
1,2-Dichloroethane	< 0.01	mg/kg	
1,1-Dichloroethene	< 0.01	mg/kg	
1,2-Dichloropropane	< 0.01	mg/kg	
Cis-1,3-Dichloropropene	< 0.01	mg/kg	
Trans-1,3-Dichloropropene	< 0.01	mg/kg	
Ethyl Benzene	< 0.01	mg/kg	
Bromomethane (Methyl Bromide)	< 0.01	mg/kg	
Chloromethane (Methyl Chloride)	< 0.01	mg/kg	
Methylene Chloride	0.26	mg/kg	
1,1,2,2-Tetrachloroethane	< 0.01	mg/kg	
Tetrachloroethene (PCE)	< 0.01	mg/kg	
Toluene	0.01	mg/kg	
Trans-1,2-Dichloroethene	< 0.01	mg/kg	
1,1,1-Trichloroethane	0.02	mg/kg	
1,1,2-Trichloroethane	< 0.01	mg/kg	
Trichloroethene (TCE)	< 0.01	mg/kg	

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CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 01/29/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19009

BCM Number : A31407

Date Sampled : 12/21/87

Location : METHOD

Date Received : 12/22/88

Client ID : BLANK

### Test Description

### Results

### Units Test Method

-----  
Trichlorofluoromethane  
Vinyl Chloride

-----  
0.01  
0.02

-----  
mg/kg EPA# 8010/20  
mg/kg

AR100651



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ORIGINAL  
(Red)

## FINAL REPORT

PAGE : 3

This is a final report.  
The results have been checked and authorized for release.

CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 01/29/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19009

BCM Number : A31407  
Location : METHOD  
Client ID : BLANK

Date Sampled : 12/21/87  
Date Received : 12/22/08

Test Description	Results	Units	Test Method
-----	-----	-----	-----

*[Signature]*  
End of Report

Certified by : -----

BCM Eastern Laboratory Director

AR100652



# BCM Laboratory Division

1850 Gravers Road  
Norristown, PA 19401  
(215) 275-0281

PLEASE REMIT CHECKS TO:  
BCM Eastern Inc.  
1 PLYMOUTH MEETING  
PLYMOUTH MEETING, PA 19462  
215-825-3800

ORIGINAL  
(Red)

## FINAL REPORT

PAGE : 1

This is a final report.

The results have been checked and authorized for release.

CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 01/29/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19010

BCM Number : A31408

Date Sampled : 12/21/87

Location : DUP

Date Received : 12/22/87

Client ID : 31393

### Test Description

### Results

### Units

### Test Method

#### Purgeable Organics by GC

EPA# 8010/20

Test Description	Results	Units	Test Method
1,2-Dichlorobenzene	N/A	RPD	
1,3-Dichlorobenzene	N/A	RPD	
1,4-Dichlorobenzene	N/A	RPD	
Benzene	24	RPD	
Bromoform	N/A	RPD	
Carbon Tetrachloride	N/A	RPD	
Chlorobenzene	38	RPD	
Dibromochloromethane	N/A	RPD	
Bromodichloromethane	N/A	RPD	
Chloroethane	N/A	RPD	
Chloroform	N/A	RPD	
1,1-Dichloroethane	N/A	RPD	
1,2-Dichloroethane	N/A	RPD	
1,1-Dichloroethene	33	RPD	
1,2-Dichloropropane	N/A	RPD	
Cis-1,3-Dichloropropene	N/A	RPD	
Trans-1,3-Dichloropropene	N/A	RPD	
Ethyl Benzene	N/A	RPD	
Bromomethane (Methyl Bromide)	N/A	RPD	
Chloromethane (Methyl Chloride)	N/A	RPD	
Methylene Chloride	N/A	RPD	
1,1,2,2-Tetrachloroethane	N/A	RPD	
Tetrachloroethene (PCE)	N/A	RPD	
Toluene	30	RPD	
Trans-1,2-Dichloroethene	N/A	RPD	
1,1,1-Trichloroethane	N/A	RPD	
1,1,2-Trichloroethane	N/A	RPD	
Trichloroethene (TCE)	32	RPD	



# BCM Laboratory Division

1850 Gravers Road  
Norristown, PA 19401  
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PLYMOUTH MEETING, PA 19462  
215-825-3800

ORIGINAL  
(Red)

## FINAL REPORT

PAGE : 2

This is a final report.

The results have been checked and authorized for release.

CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 01/29/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19010

BCM Number : A31408  
Location : DUP  
Client ID : 31393

Date Sampled : 12/21/87  
Date Received : 12/22/87

Test Description	Results	Units	Test Method
Trichlorofluoromethane	N/A	RPD	EPA# 8010/20
Vinyl Chloride	N/A	RPD	

AR100654



# BCM Laboratory Division

1850 Gravers Road  
Norristown, PA 19401  
(215) 275-0281

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BCM Eastern Inc.  
1 PLYMOUTH MEETING  
PLYMOUTH MEETING, PA 19462  
215-825-3000

ORIGINAL  
(12/87)

## FINAL REPORT

PAGE : 3

This is a final report.

The results have been checked and authorized for release.

CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 01/29/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19010

BCM Number : A31409

Date Sampled : 12/21/87

Location : SPK

Date Received : 12/22/87

Client ID : 31393

Test Description	Results	Units	Test Method
Purgeable Organics by GC			EPA# 8010/20
1,2-Dichlorobenzene	N/A	XR	
1,3-Dichlorobenzene	N/A	XR	
1,4-Dichlorobenzene	N/A	XR	
Benzene	80	XR	
Bromoform	N/A	XR	
Carbon Tetrachloride	N/A	XR	
Chlorobenzene	85	XR	
Dibromochloromethane	N/A	XR	
Bromodichloromethane	N/A	XR	
Chloroethane	N/A	XR	
Chloroform	N/A	XR	
1,1-Dichloroethane	N/A	XR	
1,2-Dichloroethane	N/A	XR	
1,1-Dichloroethene	77	XR	
1,2-Dichloropropane	N/A	XR	
Cis-1,3-Dichloropropene	N/A	XR	
Trans-1,3-Dichloropropene	N/A	XR	
Ethyl Benzene	N/A	XR	
Bromomethane (Methyl Bromide)	N/A	XR	
Chloromethane (Methyl Chloride)	N/A	XR	
Methylene Chloride	N/A	XR	
1,1,2,2-Tetrachloroethane	N/A	XR	
Tetrachloroethene (PCE)	N/A	XR	
Toluene	72	XR	
Trans-1,2-Dichloroethene	N/A	XR	
1,1,1-Trichloroethane	N/A	XR	
1,1,2-Trichloroethane	N/A	XR	
Trichloroethene (TCE)	73	XR	

AR100653





# BCM Laboratory Division

1850 Gravers Road  
Norristown, PA 19401  
(215) 275-0281

PLEASE REMIT CHECKS TO:  
BCM Eastern Inc.  
1 PLYMOUTH MEETING  
PLYMOUTH MEETING, PA 19462  
215-825-3800

ORIGINAL  
(Red)

## FINAL REPORT

PAGE : 4

This is a final report.

The results have been checked and authorized for release.

CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 01/29/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19010

BCM Number : A31409

Date Sampled : 12/21/87

Location : SPK

Date Received : 12/22/87

Client ID : 31393

### Test Description

### Results

### Units Test Method

-----  
Trichlorofluoromethane  
Vinyl Chloride

-----  
N/A  
N/A

-----  
XR  
XR  
EPA# 8010/20

AR100656



# BCM Laboratory Division

1850 Gravers Road  
Norristown, PA 19401  
(215) 275-0281

PLEASE REMIT CHECKS TO:  
BCM Eastern Inc.  
1 PLYMOUTH MEETING  
PLYMOUTH MEETING, PA 19462  
215-825-3900

ORIGINAL

## FINAL REPORT

PAGE : 5

This is a final report.

The results have been checked and authorized for release.

CLIENT

Thompson  
Attn: Steve Kemp  
00-5681-01  
BCM Trenton

Date : 01/29/88  
BCM # : 00-5681-01  
P.O.# :  
Order# : 19010

BCM Number : A31409

Date Sampled : 12/21/87

Location : SPK

Date Received : 12/22/87

Client ID : 31393

Test Description

Results

Units Test Method

End of Report  
*[Signature]*

Certified by :

BCM Eastern Laboratory Director

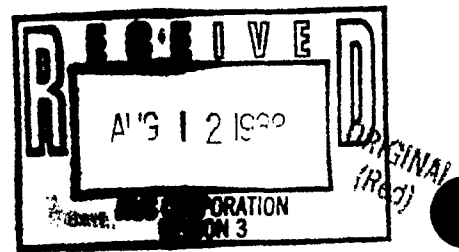
AR100657

ORIGINAL  
(Red)



APPENDIX J

AR100658



August 11, 1988

Mr. Paul Dietrich  
NUS Corporation  
999 West Valley Road  
Wayne, Pennsylvania 19087

Re: Dublin, Pennsylvania

Dear Mr. Dietrich:

Enclosed please find the information you requested in our telephone conversation of July 15, 1988 and subsequent written request through Garth Glenn dated July 18, 1988.

We have provided the following: monitoring well location map, laboratory analytical reports for monitoring wells MW-1 through MW-8, monitoring well construction details (Table 1), and water-level measurements (Table 2).

If you should have any questions or require additional information, please contact us.

Sincerely,

GERAGHTY & MILLER, INC.

*Barbara A. Dolce*  
Barbara A. Dolce  
Staff Scientist

*Robert A. Saar*  
Robert A. Saar, Ph.D.  
Senior Consultant

#NY1231DBL/080988.

AR100659

ORIGINAL  
(Red)

Table 1: Construction Details of Monitoring Wells in Dublin Borough, Pennsylvania

Monitoring Well I.D.	Date of Completion	Cased Interval (ft bgs)	Casing Diameter (inches)	Casing Material	Overburden Total Thickness (ft)	Depth (ft)	Type of Protective Assembly
MW-1	04/01/88	0-20	8	Black Steel	6	281	Stickup
MW-2	04/04/88	0-20	6	Black Steel	10	161	Curb Box
MW-3	03/29/88	0-20	6	Black Steel	7.5	100	Curb Box
MW-4	04/01/88	0-20	6	Black Steel	10	100	Curb Box
MW-5	04/20/88	0-20	6	Black Steel	10	251	Curb Box
MW-6	03/30/88	0-20	6	Black Steel	7	100	Curb Box
MW-7	04/18/88	0-20	6	Black Steel	7	125	Curb Box
MW-8	04/09/88	0-20	6	Black Steel	6	230	Curb Box

AR 100660

NOTES:

bgs below ground surface  
msl relative to mean sea level

Table 2: Water Level Data for Dublin, Pennsylvania Monitoring Wells.

Well I.D.	Elevation of MP	April 4, 1988		April 5, 1988		April 9, 1988		April 20, 1988		May 3, 1988		May 19, 1988	
		DTW (ft below MP)	Elev. of Water Level (ft.msl)	DTW (ft below MP)	Elev. of Water Level (ft.msl)	DTW (ft below MP)	Elev. of Water Level (ft.msl)	DTW (ft below MP)	Elev. of Water Level (ft.msl)	DTW (ft below MP)	Elev. of Water Level (ft.msl)	DTW (ft below MP)	Elev. of Water Level (ft.msl)
MU-1	516.37	NA	NA	22.47	493.90	22.45	493.92	22.11	494.26	19.38	496.99	13.50	502.87
MU-2	532.23	NA	NA	23.58	508.65	22.63	509.60	22.31	509.92	22.25	509.98	16.85	515.38
MU-3	542.93	38.07	506.86	73.65(1)	469.28	33.07	509.86	32.02	510.91	32.85	510.08	29.34	513.59
MU-4	540.63	21.47	519.16	NA	NA	19.03	521.60	17.68	522.95	16.10	524.53	11.10	529.53
MU-5	532.02	NA	NA	NA	NA	NA	NA	NA	NA	35.23	496.79	31.69	500.33
MU-6	554.87	NA	NA	39.31	515.56	38.13	516.76	39.74	515.13	40.59	514.28	36.52	518.35
MU-7	557.81	NA	NA	NA	NA	NA	NA	47.13	510.68	47.94	509.87	43.71	514.10
MU-8	527	NA	NA	NA	NA	NA	NA	32.67	494.85	28.10	499.42	21.07	506.45
TPU-1	549.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

(1) Evacuated previous day.  
NA Not available.  
MP Measuring point.  
ft msl Feet above mean sea level.

01231081/051888.

AR100661

AR100661

ORIGINAL  
(Red)

Table 2: (Continued)

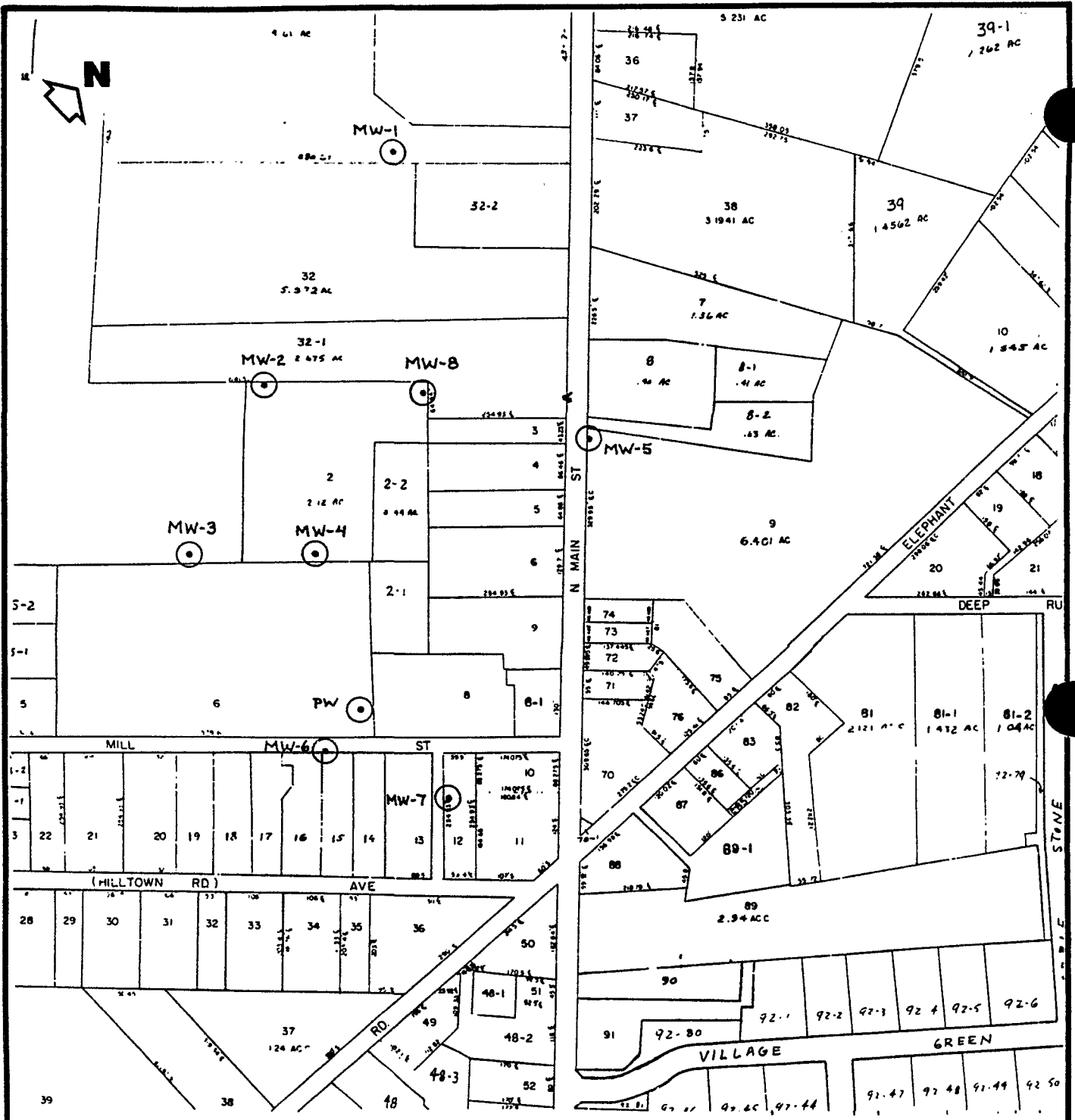
Well L.D.	Elevation of MP	June 8, 1988			July 12, 1988			July 22, 1988		
		DTW (ft below MP)	Elev. of Water Level (ft. msl)	DTW (ft below MP)	Elev. of Water Level (ft. msl)	DTW (ft below MP)	Elev. of Water Level (ft. msl)	DTW (ft below MP)	Elev. of Water Level (ft. msl)	
MU-1	516.37	16.08	500.29	36.77	479.60	40.61	475.76			
MU-2	532.23	17.26	514.97	31.37	500.86	36.04	496.19			
MU-3	542.93	25.22	517.71	39.10	503.83	43.53	499.40			
MU-4	540.83	10.98	529.85	15.32	525.31	14.20	526.43			
MU-5	532.02	32.32	499.70	49.46	482.56	52.78	479.24			
MU-6	554.87	35.44	519.43	47.78	507.09	47.35	507.52			
MU-7	557.81	41.77	516.04	53.90	503.91	NA	NA			
MU-8	527.32	24.16	503.36	44.08	483.44	48.09	479.43			
TPU-1	549.82	34.38	515.24	NA	NA	50.21	499.41			
BCN-1	546.42			NA	NA	47.04	499.38			
BCN-2	550.82			NA	NA	51.00	499.82			

NA Not available.  
MP Measuring point.  
ft msl Feet above mean sea level.

#M1231081/051888.

AR100662

ORIGINAL



SUBJECT

**MONITORING WELL LOCATIONS  
DUBLIN, PENNSYLVANIA**

AR100663

PREPARED FOR

**SEQUA CORPORATION**

Geraghty & Miller, Inc.	COMPILED BY <b>DOLCE</b>	SCALE <b>SHOWN</b>	FIGURE <b>1</b>
	PREPARED BY <b>PADULA</b>	DATE <b>8/88</b>	
	PROJECT MGR <b>DOLCE</b>		



# ANALYSIS REPORT

**Lancaster Laboratories** INCORPORATED

Pike, Lancaster, PA 17601-5506 (717) 398-7000

102046-D-2-18

ORIGINAL

LLI Sample No. WW 1265478

Geraghty & Miller  
7 Atlantic Street  
Hackensack, NJ 07601-5410

Date Reported 6/7/88  
Date Submitted 5/20/88  
Discard Date 6/15/88  
Collected by C  
P.O. NY1231081  
Rel.

Dublin, PA MW-1 Water Sample  
Collected on 05/19/88

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Purgables Method # 624				
Chloromethane	< 10.	ug/l	10.	082700000P
Bromomethane	< 10.	ug/l	10.	082800000P
Vinyl Chloride	< 10.	ug/l	10.	082900000P
Chloroethane	< 10.	ug/l	10.	083000000P
Acrolein	< 100.	ug/l	100.	082400000P
Acrylonitrile	< 100.	ug/l	100.	082500000P
Methylene Chloride	< 5.	ug/l	5.	083100000P
Trichlorofluoromethane	< 5.	ug/l	5.	079000000P
1,1-Dichloroethene	< 5.	ug/l	5.	083200000P
1,1-Dichloroethane	< 5.	ug/l	5.	083300000P
trans-1,2-Dichloroethene	7.	ug/l	5.	083400000P
Chloroform	< 5.	ug/l	5.	083500000P
1,2-Dichloroethane	< 5.	ug/l	5.	083600000P
1,1,1-Trichloroethane	< 5.	ug/l	5.	083700000P
Carbon Tetrachloride	< 5.	ug/l	5.	083800000P
Bromodichloromethane	< 5.	ug/l	5.	083900000P
1,1,2,2-Tetrachloroethane	< 5.	ug/l	5.	084900000P
1,2-Dichloropropane	< 5.	ug/l	5.	084000000P
trans-1,3-Dichloropropene	< 5.	ug/l	5.	084100000P
Trichloroethene	190.	ug/l	5.	084200000P
Dibromochloromethane	< 5.	ug/l	5.	084600000P
1,1,2-Trichloroethane	< 5.	ug/l	5.	084500000P
Benzene	< 5.	ug/l	5.	084300000P
cis-1,3-Dichloropropene	< 5.	ug/l	5.	084400000P
2-Chloroethylvinyl ether	< 10.	ug/l	10.	082600000P
Bromoform	< 5.	ug/l	5.	084700000P
Tetrachloroethene	< 5.	ug/l	5.	084800000P
Toluene	< 5.	ug/l	5.	085000000P
Chlorobenzene	< 5.	ug/l	5.	085100000P
Ethylbenzene	< 5.	ug/l	5.	085200000P

1 COPY TO Geraghty & Miller  
1 COPY TO Data Package Group

ATTN: Barbara Strehle

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

AR100664

Nelson H. Risser B.A.  
Manager, GC/MS

American Association for  
Laboratory Accreditation  
Chemical, Biological & Environmental  
fields of testing



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# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

BU2046 D 2 18

LLI Sample No. WW 1265479

Geraghty & Miller  
7 Atlantic Street  
Hackensack, NJ 07601-5410

Date Reported 6/ 7/88  
Date Submitted 5/20/88  
Discard Date 6/15/88  
Collected by C  
P.O. NY1231081  
Rel.

ORIGINAL  
7/88

Dublin, PA MW-2 Water Sample  
Collected on 05/19/88

	RESULT	LIMIT OF	LAB CODE
	AS RECEIVED	DETECTION	
Purgables Method # 624			
Chloromethane	< 10. ug/l	10.	082700000P
Bromomethane	< 10. ug/l	10.	082800000P
Vinyl Chloride	< 10. ug/l	10.	082900000P
Chloroethane	< 10. ug/l	10.	083000000P
Acrolein	< 100. ug/l	100.	082400000P
Acrylonitrile	< 100. ug/l	100.	082500000P
Methylene Chloride	< 5. ug/l	5.	083100000P
Trichlorofluoromethane	< 5. ug/l	5.	079000000P
1,1-Dichloroethene	< 5. ug/l	5.	083200000P
1,1-Dichloroethane	< 5. ug/l	5.	083300000P
trans-1,2-Dichloroethene	< 5. ug/l	5.	083400000P
Chloroform	< 5. ug/l	5.	083500000P
1,2-Dichloroethane	< 5. ug/l	5.	083600000P
1,1,1-Trichloroethane	< 5. ug/l	5.	083700000P
Carbon Tetrachloride	< 5. ug/l	5.	083800000P
Bromodichloromethane	< 5. ug/l	5.	083900000P
1,1,2,2-Tetrachloroethane	< 5. ug/l	5.	084900000P
1,2-Dichloropropane	< 5. ug/l	5.	084000000P
trans-1,3-Dichloropropene	< 5. ug/l	5.	084100000P
Trichloroethene	8. ug/l	5.	084200000P
Dibromochloromethane	< 5. ug/l	5.	084600000P
1,1,2-Trichloroethane	< 5. ug/l	5.	084500000P
Benzene	< 5. ug/l	5.	084300000P
cis-1,3-Dichloropropene	< 5. ug/l	5.	084400000P
2-Chloroethylvinyl ether	< 10. ug/l	10.	082600000P
Bromoform	< 5. ug/l	5.	084700000P
Tetrachloroethene	< 5. ug/l	5.	084800000P
Toluene	< 5. ug/l	5.	085000000P
Chlorobenzene	< 5. ug/l	5.	085100000P
Ethylbenzene	< 5. ug/l	5.	085200000P

1 COPY TO Geraghty & Miller  
1 COPY TO Data Package Group

ATTN: Barbara Strehle

AR100665

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Nelson H. Risser B.A.  
Manager, GC/MS

The American Association for  
Laboratory Accreditation  
Chemical, Biological & Environmental  
fields of testing



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Of Symbols And Abbreviations And  
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# Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 652-2200

002046 10/2/88

III Sample No. NW 1265480

Geraghty & Miller  
7 Atlantic Street  
Hackensack, NJ 07601-5410

Date Reported 6/ 7/88  
Date Submitted 5/20/88  
Discard Date 6/15/88  
Collected by C  
P.O. NY1231081  
Rel.

ORIGINAL  
(Red)

Dublin, PA MW-3 Water Sample  
Collected on 05/19/88

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Purgables Method # 624				
Chloromethane	< 10.	ug/l	10.	082700000P
Bromomethane	< 10.	ug/l	10.	082800000P
Vinyl Chloride	< 10.	ug/l	10.	082900000P
Chloroethane	< 10.	ug/l	10.	083000000P
Acrolein	< 100.	ug/l	100.	082400000P
Acrylonitrile	< 100.	ug/l	100.	082500000P
Methylene Chloride	< 5.	ug/l	5.	083100000P
Trichlorofluoromethane	< 5.	ug/l	5.	079000000P
1,1-Dichloroethene	< 5.	ug/l	5.	083200000P
1,1-Dichloroethane	< 5.	ug/l	5.	083300000P
trans-1,2-Dichloroethene	11.	ug/l	5.	083400000P
Chloroform	< 5.	ug/l	5.	083500000P
1,2-Dichloroethane	< 5.	ug/l	5.	083600000P
1,1,1-Trichloroethane	23.	ug/l	5.	083700000P
Carbon Tetrachloride	< 5.	ug/l	5.	083800000P
Bromodichloromethane	< 5.	ug/l	5.	083900000P
1,1,2,2-Tetrachloroethane	< 5.	ug/l	5.	084900000P
1,2-Dichloropropane	< 5.	ug/l	5.	084000000P
trans-1,3-Dichloropropene	< 5.	ug/l	5.	084100000P
Trichloroethene	190.	ug/l	5.	084200000P
Dibromochloromethane	< 5.	ug/l	5.	084600000P
1,1,2-Trichloroethane	< 5.	ug/l	5.	084500000P
Benzene	< 5.	ug/l	5.	084300000P
cis-1,3-Dichloropropene	< 5.	ug/l	5.	084400000P
2-Chloroethylvinyl ether	< 10.	ug/l	10.	082600000P
Bromoform	< 5.	ug/l	5.	084700000P
Tetrachloroethene	< 5.	ug/l	5.	084800000P
Toluene	< 5.	ug/l	5.	085000000P
Chlorobenzene	< 5.	ug/l	5.	085100000P
Ethylbenzene	< 5.	ug/l	5.	085200000P

1 COPY TO Geraghty & Miller  
1 COPY TO Data Package Group

ATTN: Barbara Strehle

Respectfully Submitted **AR 100666**  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Nelson H. Risser B.A.  
Manager, GC/MS

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Of Symbols And Abbreviations And  
Our Standard Terms And Conditions

American Association for  
Laboratory Accreditation  
Chemical, Biological & Environmental  
Fields of Testing



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Independent Laboratories, Inc.

# ANALYSIS REPORT

**Cancaster Laboratories** INCORPORATED

125 West 12th Street, Lancaster, PA 17601-2000 (717) 391-2417

BU2046 05/19/88

LLI Sample No. **WV 1265481**

Geraghty & Miller  
7 Atlantic Street  
Hackensack, NJ 07601-5410

Date Reported 6/ 7/88  
Date Submitted 5/20/88  
Discard Date 6/15/88  
Collected by C  
P.O. NY1231081  
Rel.

ORIGINAL:  
Redi

Dublin, PA MW-4 Water Sample  
Collected on 05/19/88

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Purgables Method # 624				
Chloromethane	< 10.	ug/l	10.	082700000P
Bromomethane	< 10.	ug/l	10.	082800000P
Vinyl Chloride	< 10.	ug/l	10.	082900000P
Chloroethane	< 10.	ug/l	10.	083000000P
Acrolein	< 100.	ug/l	100.	082400000P
Acrylonitrile	< 100.	ug/l	100.	082500000P
Methylene Chloride	< 5.	ug/l	5.	083100000P
Trichlorofluoromethane	< 5.	ug/l	5.	079000000P
1,1-Dichloroethene	< 5.	ug/l	5.	083200000P
1,1-Dichloroethane	< 5.	ug/l	5.	083300000P
trans-1,2-Dichloroethene	240.	ug/l	5.	083400000P
Chloroform	< 5.	ug/l	5.	083500000P
1,2-Dichloroethane	< 5.	ug/l	5.	083600000P
1,1,1-Trichloroethane	< 5.	ug/l	5.	083700000P
Carbon Tetrachloride	< 5.	ug/l	5.	083800000P
Bromodichloromethane	< 5.	ug/l	5.	083900000P
1,1,2,2-Tetrachloroethane	< 5.	ug/l	5.	084900000P
1,2-Dichloropropane	< 5.	ug/l	5.	084000000P
trans-1,3-Dichloropropene	< 5.	ug/l	5.	084100000P
Trichloroethene	640.	ug/l	5.	084200000P
Dibromochloromethane	< 5.	ug/l	5.	084600000P
1,1,2-Trichloroethane	< 5.	ug/l	5.	084500000P
Benzene	< 5.	ug/l	5.	084300000P
cis-1,3-Dichloropropene	< 5.	ug/l	5.	084400000P
2-Chloroethylvinyl ether	< 10.	ug/l	10.	082600000P
Bromoform	< 5.	ug/l	5.	084700000P
Tetrachloroethene	8.	ug/l	5.	084800000P
Toluene	< 5.	ug/l	5.	085000000P
Chlorobenzene	< 5.	ug/l	5.	085100000P
Ethylbenzene	< 5.	ug/l	5.	085200000P

1 COPY TO Geraghty & Miller  
1 COPY TO Data Package Group

ATTN: Barbara Strehle

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

AR 100667

Nelson H. Risser B.A.  
Manager, GC/MS

The American Association for  
Laboratory Accreditation  
Chemical, Biological & Environmental  
fields of testing



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Environmental Laboratories, Inc.



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 655-2301

REVISIONS: 1 2 18

LLI Sample No. WV 1265482

Geraghty & Miller  
7 Atlantic Street  
Hackensack, NJ 07601-5410

Date Reported 6/ 7/88  
Date Submitted 5/20/88  
Discard Date 6/15/88  
Collected by C  
P.O. NY1231081  
Rel.

ORIGINAL  
(Red)

Dublin, PA MW-5 Water Sample  
Collected on 05/19/88

Purgables Method # 624	RESULT		LIMIT OF DETECTION	LAB CODE
	AS RECEIVED			
Chloromethane	< 10.	ug/l	10.	082700000P
Bromomethane	< 10.	ug/l	10.	082800000P
Vinyl Chloride	< 10.	ug/l	10.	082900000P
Chloroethane	< 10.	ug/l	10.	083000000P
Acrolein	< 100.	ug/l	100.	082400000P
Acrylonitrile	< 100.	ug/l	100.	082500000P
Methylene Chloride	< 5.	ug/l	5.	083100000P
Trichlorofluoromethane	< 5.	ug/l	5.	079000000P
1,1-Dichloroethene	< 5.	ug/l	5.	083200000P
1,1-Dichloroethane	< 5.	ug/l	5.	083300000P
trans-1,2-Dichloroethene	< 5.	ug/l	5.	083400000P
Chloroform	< 5.	ug/l	5.	083500000P
1,2-Dichloroethane	< 5.	ug/l	5.	083600000P
1,1,1-Trichloroethane	< 5.	ug/l	5.	083700000P
Carbon Tetrachloride	< 5.	ug/l	5.	083800000P
Bromodichloromethane	< 5.	ug/l	5.	083900000P
1,1,2,2-Tetrachloroethane	< 5.	ug/l	5.	084900000P
1,2-Dichloropropane	< 5.	ug/l	5.	084000000P
trans-1,3-Dichloropropene	< 5.	ug/l	5.	084100000P
Trichloroethene	39.	ug/l	5.	084200000P
Dibromochloromethane	< 5.	ug/l	5.	084600000P
1,1,2-Trichloroethane	< 5.	ug/l	5.	084500000P
Benzene	< 5.	ug/l	5.	084300000P
cis-1,3-Dichloropropene	< 5.	ug/l	5.	084400000P
2-Chloroethylvinyl ether	< 10.	ug/l	10.	082600000P
Bromoform	< 5.	ug/l	5.	084700000P
Tetrachloroethene	< 5.	ug/l	5.	084800000P
Toluene	< 5.	ug/l	5.	085000000P
Chlorobenzene	< 5.	ug/l	5.	085100000P
Ethylbenzene	< 5.	ug/l	5.	085200000P

1 COPY TO Geraghty & Miller  
1 COPY TO Data Package Group

ATTN: Barbara Strehle

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

AR100668

Nelson H. Risser B.A.  
Manager, GC/MS

American Association for Accreditation of Biological & Environmental Testing



American Council of Independent Laboratories, Inc.

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Of Symbols And Abbreviations And  
Our Standard Terms And Conditions



# ANALYSIS REPORT

## Lancaster Laboratories

INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 698-2381

192046-D-2-18

LLI Sample No. WH-1265483

Geraghty & Miller  
7 Atlantic Street  
Hackensack, NJ 07601-5410

Date Reported 6/ 7/88  
Date Submitted 5/20/88  
Discard Date 6/15/88  
Collected by C  
P.O. NY1231081  
Rel.

ORIGINAL  
(Red)

Dublin, PA MW-6 Background Water Sample  
Collected on 05/19/88

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Purgables Method # 624				
Chloromethane	< 10. ug/l		10.	082700000P
Bromomethane	< 10. ug/l		10.	082800000P
Vinyl Chloride	< 10. ug/l		10.	082900000P
Chloroethane	< 10. ug/l		10.	083000000P
Acrolein	< 100. ug/l		100.	082400000P
Acrylonitrile	< 100. ug/l		100.	082500000P
Methylene Chloride	< 5. ug/l		5.	083100000P
Trichlorofluoromethane	< 5. ug/l		5.	079000000P
1,1-Dichloroethene	< 5. ug/l		5.	083200000P
1,1-Dichloroethane	< 5. ug/l		5.	083300000P
trans-1,2-Dichloroethene	< 5. ug/l		5.	083400000P
Chloroform	< 5. ug/l		5.	083500000P
1,2-Dichloroethane	< 5. ug/l		5.	083600000P
1,1,1-Trichloroethane	< 5. ug/l		5.	083700000P
Carbon Tetrachloride	< 5. ug/l		5.	083800000P
Bromodichloromethane	< 5. ug/l		5.	083900000P
1,1,2,2-Tetrachloroethane	< 5. ug/l		5.	084900000P
1,2-Dichloropropane	< 5. ug/l		5.	084000000P
trans-1,3-Dichloropropene	< 5. ug/l		5.	084100000P
Trichloroethene	< 5. ug/l		5.	084200000P
Dibromochloromethane	< 5. ug/l		5.	084600000P
1,1,2-Trichloroethane	< 5. ug/l		5.	084500000P
Benzene	< 5. ug/l		5.	084300000P
cis-1,3-Dichloropropene	< 5. ug/l		5.	084400000P
2-Chloroethylvinyl ether	< 10. ug/l		10.	082600000P
Bromoform	< 5. ug/l		5.	084700000P
Tetrachloroethene	< 5. ug/l		5.	084800000P
Toluene	< 5. ug/l		5.	085000000P
Chlorobenzene	< 5. ug/l		5.	085100000P
Ethylbenzene	< 5. ug/l		5.	085200000P

1 COPY TO Geraghty & Miller  
1 COPY TO Data Package Group

ATTN: Barbara Strehle

American Association for  
Laboratory Accreditation  
Cal. Biological & Environmental  
of testing



American Council of  
Independent Laboratories, Inc.



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Our Standard Terms And Conditions

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

ARI 00669

Nelson H. Risser B.A.  
Manager, GC/MS



# ANALYSIS REPORT

## Lancaster Laboratories INCORPORATED

802046 D 7 18

LLI Sample No. WW 1265487

Geraghty & Miller  
7 Atlantic Street  
Hackensack, NJ 07601-5410

Date Reported 6/ 7/88  
Date Submitted 5/20/88  
Discard Date 6/15/88  
Collected by C  
P.O. NY1231081  
Rel.

Dublin, PA MW-7 Water Sample  
Collected on 05/19/88

	RESULT		LIMIT OF	LAB CODE
	AS RECEIVED		DETECTION	
Purgables Method # 624				
Chloromethane	< 10.	ug/l	10.	082700000P
Bromomethane	< 10.	ug/l	10.	082800000P
Vinyl Chloride	< 10.	ug/l	10.	082900000P
Chloroethane	< 10.	ug/l	10.	083000000P
Acrolein	< 100.	ug/l	100.	082400000P
Acrylonitrile	< 100.	ug/l	100.	082500000P
Methylene Chloride	< 5.	ug/l	5.	083100000P
Trichlorofluoromethane	< 5.	ug/l	5.	079000000P
1,1-Dichloroethene	< 5.	ug/l	5.	083200000P
1,1-Dichloroethane	< 5.	ug/l	5.	083300000P
trans-1,2-Dichloroethene	< 5.	ug/l	5.	083400000P
Chloroform	< 5.	ug/l	5.	083500000P
1,2-Dichloroethane	< 5.	ug/l	5.	083600000P
1,1,1-Trichloroethane	< 5.	ug/l	5.	083700000P
Carbon Tetrachloride	< 5.	ug/l	5.	083800000P
Bromodichloromethane	< 5.	ug/l	5.	083900000P
1,1,2,2-Tetrachloroethane	< 5.	ug/l	5.	084900000P
1,2-Dichloropropane	< 5.	ug/l	5.	084000000P
trans-1,3-Dichloropropene	< 5.	ug/l	5.	084100000P
Trichloroethene	93.	ug/l	5.	084200000P
Dibromochloromethane	< 5.	ug/l	5.	084600000P
1,1,2-Trichloroethane	< 5.	ug/l	5.	084500000P
Benzene	< 5.	ug/l	5.	084300000P
cis-1,3-Dichloropropene	< 5.	ug/l	5.	084400000P
2-Chloroethylvinyl ether	< 10.	ug/l	10.	082600000P
Bromoform	< 5.	ug/l	5.	084700000P
Tetrachloroethene	< 5.	ug/l	5.	084800000P
Toluene	< 5.	ug/l	5.	085000000P
Chlorobenzene	< 5.	ug/l	5.	085100000P
Ethylbenzene	< 5.	ug/l	5.	085200000P

1 COPY TO Geraghty & Miller  
1 COPY TO Data Package Group

ATTN: Barbara Strehle

AR100670

Respectfully Submitted  
Lancaster Laboratories, Inc.  
Reviewed and Approved by:

Nelson H. Risser B.A.  
Manager, GC/MS

American Association for  
Laboratory Accreditation  
Chemical, Biological & Environmental  
fields of testing



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# ANALYSIS REPORT

## Lancaster Laboratories

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 658-2301

III Sample No. MW 1265488

Geraghty & Miller  
7 Atlantic Street  
Hackensack, NJ 07601-5410

Date Reported 6/7/88  
Date Submitted 5/20/88  
Discard Date 6/15/88  
Collected by C  
P.O. NY1231081  
Rel.

ORIGINAL  
(Red)

Dublin, PA MW-8 Water Sample  
Collected on 05/19/88

	RESULT AS RECEIVED	UNIT	LIMIT OF DETECTION	LAB CODE
Purgables Method # 624				
Chloromethane	< 50.	ug/l	50.	082700000P
Bromomethane	< 50.	ug/l	50.	082800000P
Vinyl Chloride	< 50.	ug/l	50.	082900000P
Chloroethane	< 50.	ug/l	50.	083000000P
Acrolein	< 500.	ug/l	500.	082400000P
Acrylonitrile	< 500.	ug/l	500.	082500000P
Methylene Chloride	< 30.	ug/l	30.	083100000P
Trichlorofluoromethane	< 30.	ug/l	30.	079000000P
1,1-Dichloroethene	< 30.	ug/l	30.	083200000P
1,1-Dichloroethane	< 30.	ug/l	30.	083300000P
trans-1,2-Dichloroethene	< 30.	ug/l	30.	083400000P
Chloroform	< 30.	ug/l	30.	083500000P
1,2-Dichloroethane	< 30.	ug/l	30.	083600000P
1,1,1-Trichloroethane	< 30.	ug/l	30.	083700000P
Carbon Tetrachloride	< 30.	ug/l	30.	083800000P
Bromodichloromethane	< 30.	ug/l	30.	083900000P
1,1,2,2-Tetrachloroethane	< 30.	ug/l	30.	084900000P
1,2-Dichloropropane	< 30.	ug/l	30.	084000000P
trans-1,3-Dichloropropene	< 30.	ug/l	30.	084100000P
Trichloroethene	470.	ug/l	30.	084200000P
Dibromochloromethane	< 30.	ug/l	30.	084600000P
1,1,2-Trichloroethane	< 30.	ug/l	30.	084500000P
Benzene	< 30.	ug/l	30.	084300000P
cis-1,3-Dichloropropene	< 30.	ug/l	30.	084400000P
2-Chloroethylvinyl ether	< 50.	ug/l	50.	082600000P
Bromoform	< 30.	ug/l	30.	084700000P
Tetrachloroethene	< 30.	ug/l	30.	084800000P
Toluene	< 30.	ug/l	30.	085000000P
Chlorobenzene	< 30.	ug/l	30.	085100000P
Ethylbenzene	< 30.	ug/l	30.	085200000P

1 COPY TO Geraghty & Miller  
1 COPY TO Data Package Group

ATTN: Barbara Strehle

Respectfully Submitted  
Lancaster Laboratories  
Reviewed and Approved by: **AR 00671**

Nelson H. Risser B.A.  
Manager, GC/MS

The American Association for  
Laboratory Accreditation  
Chemical, Biological & Environmental  
Fields of Testing



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Member American Council of  
Governmental Laboratories



ORIGINAL  
(Red)

APPENDIX K

AR100672



BCM Eastern Inc.  
Engineers, Planners and Scientists

ORIGINAL  
(Red)

The Birches, Suite 4 • 2275 Whitehorse-Mercerville Road • Trenton, NJ 08619 • (609) 587-9777

July 15, 1988

Mr. Paul Dietrich  
NUS Corporation  
999 West Valley Road  
Wayne, Pennsylvania 19087

Subject: 120 Mill Street, Dublin, Pennsylvania  
Groundwater Monitoring Wells  
BCM Project No. 00-5681-02

Dear Paul:

This letter serves to transmit the information that you requested regarding the two monitoring wells installed by BCM Eastern Inc. at the 120 Mill Street property.

The approximate locations of the two wells (MW-1 and MW-2) are indicated on the enclosed figure. Also enclosed are the drilling logs for these wells. The depth to groundwater from grade, as measured on June 7, 1988, is 31.17 feet at MW-1 and 35.21 feet at MW-2. The wells were sampled on July 6, 1988 and surveyed on July 7, 1988. The analytical results and the survey data are not yet available.

If I can be of further assistance, please do not hesitate to contact me.

Very truly yours,

Steven F. Kemp  
Project Geologist

SFK/kk

cc: J. Manko, Esq.  
B. Klaymen, Esq.  
S. Helbig, BCM

AR100673

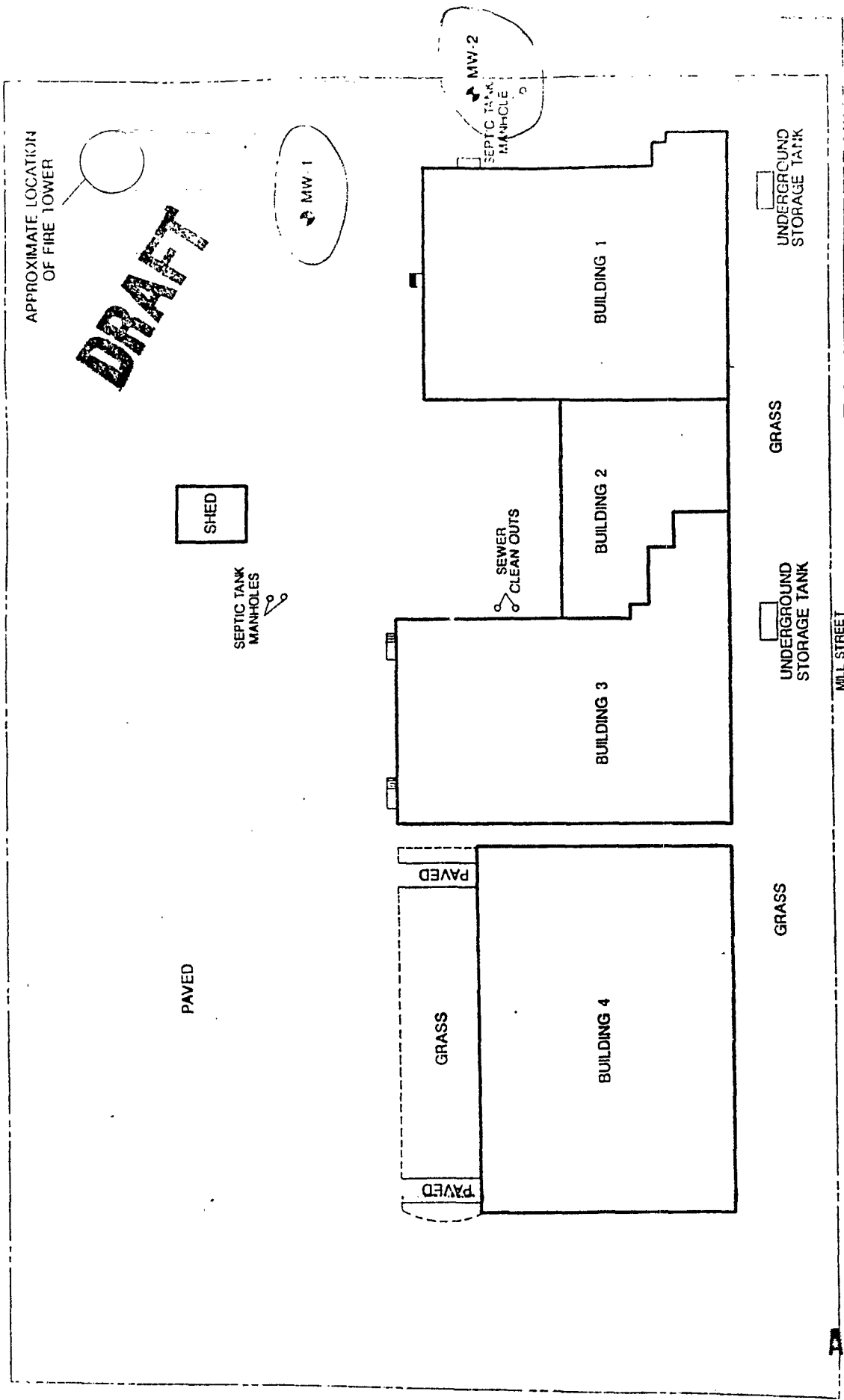


Figure 1

SAMPLING LOCATION MAP

Geraghty & Miller Well #6

BCM Proposed Monitoring Well Location (Approximate)

Geraghty & Miller, Inc. Monitoring Well Location (Approximate)

Property Line

MW-1 Monitoring Well Number



BCM Project No. 00674

JUL 11 2005


APR 00674

ORIGINAL (Red)

ORIGINAL  
(Red)



WELL DRILLING LOG


WELL NO: MW-1  
 SHEET 1 OF:   
 PROJECT NO: 5681-02  
 DATE(S) DRILLED: 5/20/88  
 DRILLING METHOD: Air Rotary  
 SAMPLE INTERVAL: NA  
 TOTAL DEPTH: 100  
 SCREENED INTERVAL: NA  
 CASED INTERVAL: 20'-0'  
 PACKED INTERVAL: NA  
 GROUTED INTERVAL: 20'-0'  
 BENTONITE SEAL: NA  
 ESTIMATED YIELD:

**DRAFT**

PROJECT: Thompson Properties  
 WELL LOCATION: Behind Building 1  
 DRILLING CONTRACTOR: Empire Soil Investigations  
 BORING DIAMETER: 5 3/4"      SAMPLING METHOD: NA  
 LOGGED BY: Robert Wyatt  
 SCREEN SIZE AND MATERIAL: NA  
 CASING SIZE AND MATERIAL: NA  
 GRAVEL PACK SIZE: NA  
 GROUT TYPE: NA  
 GROUTING METHOD: NA  
 DEVELOPMENT METHOD:      TIME:

STATIC WATER DEPTH:      DATE:      REFERENCE: 

REMARKS:

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (IN.)	CLASSIFICATION OF MATERIALS
0-5				SILT AND CLAY; some fine to medium sand size pieces of shale, red, dry.
5-9				FINE TO COARSE SAND SIZE PIECES OF SHALE; some fine angular gravel size shale pieces, some silt and clay, red.
9-10				FINE TO MEDIUM GRAVEL SIZE SHALE FRAGMENTS; weathered bedrock zone, trace silt, dark greenishgray/red.
10-11				GRAVEL SIZE SHALE FRAGMENTS; gray, bedrock.
11-17				FINE SAND TO MEDIUM GRAVEL SIZE SHALE FRAGMENT gray, wet at 12.5'. <b>AR100675</b> 
17-20				SAND AND GRAVEL SIZE SHALE FRAGMENTS: less round, harder rock, dark gray/black.

AR100675

MW-1

WELL NO. \_\_\_\_\_

SHEET \_\_\_\_\_ OF: \_\_\_\_\_

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (in)	CLASSIFICATION
20-22				SHALE; soft, dark gray.
22-23.5				SHALE; slightly weathered, soft, light gray/tan
23.5-34				SHALE; hard, light medium gray.
34-34.5				SHALE; soft, light gray.
34.5-35				SHALE; hard, red.
35-37				SHALE; hard, red and gray.
37-38				SHALE; hard, gray, trace red.
38-39.5				SHALE; hard, gray.
39.5-43				SHALE; soft, gray/tan.
43-44.5				SHALE; weathered appearance, soft, tan/yellow/gray.
44.5-45				SHALE; soft, dark gray/black.
45-48				SHALE; soft, gray.
48-55				SHALE; hard, gray.
55-59				SHALE; very hard, red.
59-61				SHALE; hard, gray.
61-61.5				SHALE; very hard, red.
61.5-66				SHALE; hard, gray.
66-72				SHALE; hard, red and gray.
72-75				SHALE; hard, red.
75-76				SHALE; hard, red and gray.
76-				MAJOR PRODUCING FRACTURE, black shale on top, red shale beneath.
76-76.1				SHALE; hard, red.
76.1-79				SHALE; soft black and hard red.
79-88				SHALE; very hard, red, little black.
88-90				SHALE; hard, red, little soft black shale.

**DRAFT**

**AR100676**

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (in.)	CLASSIFICATION
90-97 97-100				SHALE; very hard, red. SHALE; soft, red.

**DRAFT**

AR100677

ORIGINAL  
(Red)



**WELL DRILLING LOG**

WELL NO: MW-2  
SHEET 1 OF: 2

PROJECT: Thompson Properties

PROJECT NO: 5681-02

WELL LOCATION: Driveway, NE of Building 1

DATE(S) DRILLED 5/20/88

DRILLING CONTRACTOR: Empire Soil Investigations

DRILLING METHOD Air Rotary

BORING DIAMETER: 5 3/4"

SAMPLING METHOD: NA

SAMPLE INTERVAL: NA

LOGGED BY: Robert Wyatt

TOTAL DEPTH: 100

SCREEN SIZE AND MATERIAL: NA

SCREENED INTERVAL: NA

CASING SIZE AND MATERIAL: NA

CASED INTERVAL: 20'-0'

GRAVEL PACK SIZE: NA

PACKED INTERVAL: NA

GROUT TYPE: NA

GROUTED INTERVAL: 20'-0'

GROUTING METHOD: NA

BENTONITE SEAL: NA

DEVELOPMENT METHOD: TIME:

ESTIMATED YIELD:

STATIC WATER DEPTH:

DATE:

REFERENCE:

REMARKS:

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (IN.)	CLASSIFICATION OF MATERIALS
0-8				SILT AND CLAY; some sand and gravel size shale fragments, red.
8-12				SAND AND GRAVEL SIZE SHALE FRAGMENTS; some silt
12-13				SAND AND GRAVEL SIZE SHALE FRAGMENTS; bedrock, tan/gray.
13-14.5				COMPETENT BEDROCK; sand and gravel size fragments, gray.
14.5-16.5				SHALE; hard, fissile, gray/blue.
16.5-17				SHALE; soft, some silt, greenish/tan to reddish brown.
17-20				SHALE; hard, fissile, light gray, wet at 19 feet.

ARI00678

LITHOLOGIC INTERVAL	SAMPLE INTERVAL	SPOON BLOWS	RECOVERY (in.)	CLASSIFICATION
20-34				SHALE; hard, gray, dry.
34-38				SHALE; soft, gray, wet at 37 feet.
38-42				SHALE; hard, gray/light gray, dry.
42-45.5				SHALE; soft, gray/yellow, dry.
45.5-46.5				SHALE; soft, weathered appearance, some silt, brown/red/gray, wet.
48.5-52				SHALE; hard, red and gray, wet.
52-55				SHALE; soft, dark gray, wet.
55-57				SHALE; soft, red, wet.
57-60				SHALE; hard, red, wet.
60-60.5				SILTSTONE WITH MICA; hard, red, wet.
60.5-61				SHALE; hard, gray/dark gray, wet.
61-62.5				SHALE; hard, red and gray, wet.
62.5-65				SHALE; hard, gray/blue.
65-73				SHALE; hard, red, little gray shale, wet.
73-74				SHALE; soft, gray/dark gray, wet.
74-83				SHALE; hard, red, wet.
83-84.5				SHALE; soft, gray, wet.
84.5-100				SHALE; hard, red, few thin gray bands, wet.

**DRAFT**

AR100679



ORIGINAL  
(Red)

APPENDIX L

AR100680



REPORT TYPE A

(WELL RECORDS HAVE NOT BEEN FIELD CHECKED.)

FIELD (Red)

PAGE: 400682

WELL NO.	OWNER	USGS PA	SUB-PA	QUAD	D	N	S	E	W	L	ATITUDE	LONGITUDE	U	G	R	L	RES	DATE	TIME	STATUS
1692	MEYERS HARRY	4-0	2-D	217A	40	25	20	75	11	45	1	5	P	M	1	0				
1730	LAPE KENNETH	4-0	2-F	217A	40	25	32	75	0	15	5	5	P	M	0	7	0			
1805	BIELER HAROLD	4-0	2-D	217A	40	25	10	75	6	0	2	5	P	M	0					
1828	PIRNITZ MICHAEL	4-0	2-D	217A	40	26	32	75	10	27	2	5	P	M	0					
3309	THOMPSON P	4-0	2-0	217A	40	23	9	75	10	47	2	5	P	M	0					
3310	BOODER HAROLD	4-0	2-0	217A	40	23	4	75	10	46	2	5	P	M	0					
3311	KLEIN RUDOLF	4-0	2-0	217A	40	26	20	75	16	36	2	5	P	M	0					
3312	NOBEN GRACE	4-0	3-E	217A	40	24	25	75	14	50	2	5	P	M	0					
3313	ROODSKY JOSEPH	4-0	3-E	217A	40	25	47	75	13	4	2	5	P	M	0					
3314	WZALY RUD	4-0	3-D	217A	40	27	32	75	10	47	2	5	P	M	0					
3317	GULICK SCOTT	4-0	3-E	217A	40	24	3	75	13	35	2	5	P	M	0					
3318	COLLINS SIMON J	4-0	3-E	217A	40	26	9	75	14	27	2	5	P	M	0					
3320	STEWART CHARLES	4-0	2-D	217A	40	25	14	75	1	50	2	5	P	M	0					
1895	WILLIAMS RALPH	4-0	2-0	217A	40	23	46	75	11	06										
1897	WILLIAMS RALPH	4-0	2-0	217A	40	23	46	75	11	06										
1898	WILLIAMS RALPH	4-0	2-0	217A	40	23	46	75	11	06										
1899	ALDRIN EDWARD	4-0	2-0	217A	40	24	45	75	12	11	3	5	P	M	0					
1900	JOHNSON W	4-0	2-F	220C	40	7	29	74	54	81	1	5	P	M	0					
1901	JOHNSON W	4-0	2-F	220C	40	7	24	74	54	26	1	5	P	M	0					
1902	JOHNSON W	4-0	2-F	220C	40	7	24	74	54	26	1	5	P	M	0					
1903	LEASOR WILFRED	4-0	2-F	220C	40	6	11	74	54	30	1	5	P	M	0					
1904	LEASOR WILFRED	4-0	2-F	220C	40	6	13	74	54	40	1	5	P	M	0					
1905	LEASOR WILFRED	4-0	2-F	220C	40	7	21	74	54	44	1	5	P	M	0					
1906	LEASOR WILFRED	4-0	2-F	220C	40	6	9	74	54	46	1	5	P	M	0					
1907	PETS WAGNER	4-0	2-F	220C	40	6	0	74	55	2	4	5	P	M	0					
1908	FARM ELLIST HR	4-0	2-F	220C	40	4	56	74	53	50	4	5	P	M	0					
1909	JERMONI GENT	4-0	2-F	220A	40	7	45	74	50	47	5	5	P	M	0					
1910	FORREST C BLON	4-0	2-F	220C	40	6	10	74	54	45	5	5	P	M	0					

ORIGINAL  
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(WELL RECORDS HAVE NOT BEEN FIELD CHECKED.)

TOWNSHIP	WELL NO.	S	E	T	C	NO.	Y	XX	NAME	USGS PA	SUB-SUB-QUAD	QUAD	D	M	S	D	M	S	A	N	U	L	A	L	F	E	L	L	R	L	M	/	/	0	0	A	L				
HAYCOCK	2400	1	1	1	1	2400	1	1	GROR WALTER	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
HAYCOCK	2401	1	1	1	1	2401	1	1	DECARREWONT W P	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
HAYCOCK	2402	1	1	1	1	2402	1	1	DEMETO BART	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HAYCOCK	2403	1	1	1	1	2403	1	1	DE BRID JOHN	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HAYCOCK	2404	1	1	1	1	2404	1	1	DI SALBO D MRS	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HAYCOCK	2405	1	1	1	1	2405	1	1	DIXON WILLIAM J	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HAYCOCK	2406	1	1	1	1	2406	1	1	DOLL LAURA B	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HAYCOCK	2407	1	1	1	1	2407	1	1	DONAHUE JOHN P	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HAYCOCK	2408	1	1	1	1	2408	1	1	DRISCOLL PETER	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	2409	1	1	1	1	2409	1	1	DUNBAR EDWIN	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	2410	1	1	1	1	2410	1	1	EBERLIN HARRY H	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	2411	1	1	1	1	2411	1	1	ZIMMERMAN F	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	2412	1	1	1	1	2412	1	1	SZABADY GABRIEL	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	2413	1	1	1	1	2413	1	1	BIRANE CHARLES	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	2414	1	1	1	1	2414	1	1	WILLIAMS CHESTE	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	2415	1	1	1	1	2415	1	1	CRISPINO JAMES	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	2416	1	1	1	1	2416	1	1	LEWIS JOFRE	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	3671	1	1	1	1	3671	1	1	FROST MRS F	4-D	2078	40	27	12	75	17	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	3672	1	1	1	1	3672	1	1	BRECHTEL JOHN T	4-D	2078	40	28	42	75	15	13	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAYCOCK	3680	1	1	1	1	3680	1	1	GARIS GLENN	4-D	2078	40	28	28	75	14	10	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HILLTOWN	452	1	1	1	1	452	1	1	RICE OWEN	4-D	2078	40	21	59	75	13	29	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HILLTOWN	463	1	1	1	1	463	1	1	JAMES DALE	4-D	2078	40	18	44	75	14	1	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HILLTOWN	464	1	1	1	1	464	1	1	BLDR FOREST C	4-D	2078	40	20	17	75	15	3	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HILLTOWN	465	1	1	1	1	465	1	1	BENNETT RUSSELL	4-D	2078	40	20	17	75	15	3	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HILLTOWN	466	1	1	1	1	466	1	1	DELINAT EDWARD	4-D	2078	40	20	17	75	15	3	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HILLTOWN	467	1	1	1	1	467	1	1	CLUG G HILLTOWN	4-D	2078	40	20	17	75	15	3	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HILLTOWN	467	1	1	1	1	467	1	1	GARVIS GLENN	4-D	2078	40	20	17	75	15	3	25	P	M	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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WELL RECORDS HAVE NOT BEEN FIELD CHECKED.1

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WELL NO.	OWNER	SUB-BAS.	QUAD	LATITUDE	LONGITUDE	RES	DATE	TIME	STATUS
HILLTOWN 448	HELL NICK	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 449	MILLER EDWARD	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 452	MILLER EDWARD	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 453	FREDERICK ROBERT	4-0	2-F 217C	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 454	DELEMAT EDWARD	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 455	SCHULZ REINHARD	4-0	3-E 207B	40 22 60	75 15 4	5 S P M A 2 0			0
HILLTOWN 456	SEHLERT EDWIN	4-0	2-F 217C	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 457	SIMONS JEROLDO	4-0	2-F 217C	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 458	HESS DALTON	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 459	HESS DALTON	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 460	MILLER EDWARD	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 461	HAYES ESTHER	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 462	HEGGLER GEORGE	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 463	DELEMAT EDWARD	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 464	MILLER EDWARD	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 2 0			0
HILLTOWN 465	GARRES MRS A	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 466	SENSINGER LEROY	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 467	BRAESIDE SCHOOL	4-0	3-E 217A	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 468	NICE WILLIAM	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 469	SCHULLER WILLIAM	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 470	LAKE GEORGE	4-0	3-E 217D	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 471	EARLEY WILLIAM	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 472	BISHOP PAUL	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 473	HORN STANLEY	4-0	3-E 217A	40 22 60	75 15 4	5 S P M A 2 0			0
HILLTOWN 474	LATHROP STEWART	4-0	3-E 217A	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 475	LUDLOW T	4-0	3-E 207D	40 22 60	75 15 4	5 S P M A 1 0			0
HILLTOWN 476	ARGUE J H	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 3 0			0
HILLTOWN 477	SCHULZ REINHARD	4-0	3-E 217C	40 22 60	75 15 4	5 S P M A 2 0			0

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ORIGINAL (Red)

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BUCKS COUNTY

[WELL RECORDS HAVE NOT BEEN FIELD CHECKED.]

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TOWNSHIP	WELL NO.	WELL TYPE	OWNER	SUB-BAS.	QUAD	LATITUDE	LONGITUDE	RES	AMH	UJ	AA	EE	FF	II	OO	PP	RR	TT	UU	XX
HILLTOWN	477	1	DELINAT EDWARD	4-D	3-E	207D	40 22 45	75 15 12	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	478	1	RUKE	4-D	3-E	207B	40 22 45	75 15 12	1 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	479	1	LUDLOW FRANK	4-D	3-E	217C	40 19 52	75 13 50	2 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	480	1	MASE JAMES	4-D	3-E	207D	40 20 50	75 16 10	3 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	481	1	TODLAWACH R PEN	4-D	3-E	207D	40 22 15	75 13 21	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	482	1	PHILLIPS	4-D	3-E	217C	40 22 15	75 13 21	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	483	1	BLOD REILEY KEN	4-D	3-E	207D	40 22 15	75 13 21	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	484	1	THOMPSON ROSE	4-D	3-E	207D	40 18 40	75 10 2	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	485	1	O NEILL	4-D	3-E	207D	40 18 40	75 10 2	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	486	1	SALES HOT TODD	4-D	3-E	207D	40 18 40	75 10 2	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	487	1	GARVIS GLENN	4-D	2-F	217C	40 22 15	75 13 21	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	488	1	TYSEN PAUL	4-D	2-F	217C	40 22 15	75 13 21	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	489	1	GARVIS GLENN	4-D	2-F	217C	40 22 15	75 13 21	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	490	1	GARVIS GLENN	4-D	2-F	217C	40 22 15	75 13 21	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	491	1	THOMPSON ROSE	4-D	3-E	217C	40 22 15	75 13 21	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	492	1	STESKAL ROBERT	4-D	3-E	217C	40 16 25	75 14 42	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	493	1	D NEAL TED	4-D	3-E	207D	40 10 41	75 10 4	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	494	1	KULP WALTER	4-D	3-E	217C	40 22 13	75 13 47	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	495	1	GARTNER WILLIAM	4-D	3-E	207D	40 19 35	75 15 27	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	496	1	CASSEL MISSER	4-D	3-E	207D	40 20 54	75 16 24	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	497	1	MASE JAMES	4-D	3-E	207D	40 20 54	75 16 24	2 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	498	1	JAMES DALE	4-D	3-E	217C	40 20 5	75 12 29	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	499	1	HURN STANLEY	4-D	3-E	217C	40 22 14	75 13 26	4 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	500	1	HOCKMAN HOWARD	4-D	3-E	207D	40 22 14	75 13 26	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	501	1	HOCKMAN HAROLD	4-D	3-E	207D	40 22 14	75 13 26	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	502	1	FRITZ JOHN	4-D	3-E	207D	40 22 14	75 13 26	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	503	1	GARVIS GLENN	4-D	3-E	207D	40 22 14	75 13 26	5 5	P	H	A	1	1	0	0	0	0	0	0
HILLTOWN	504	1	SHALL WALTER	4-D	3-E	207D	40 22 14	75 13 26	5 5	P	H	A	1	1	0	0	0	0	0	0



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TOWNSHIP  
 NO. 0  
 WELL NO. 1323  
 1324  
 1325  
 1326  
 1327  
 1328  
 1329  
 1330  
 1331  
 1332  
 1333  
 1334  
 1335  
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 1340  
 1341  
 1342  
 1343  
 1344  
 1345  
 1346  
 1347  
 1705  
 1706

WELL NO.	OWNER	BAS.	SUB-	QUAD	LATITUDE	LONGITUDE	RES.	CLASS.	STATUS
1323	BDR STOHL WM	4-0	2-F	217C	40 10 52	75 14 5	3 S P M 4	1 0	0
1324	MALICH DAVID	4-0	3-E	217C	40 17 33	75 15 31	3 S P M 4	2 0	0
1325	MORRIS HARRY	4-0	3-E	217C	40 21 30	75 13 48	2 S P M 4	1 0	0
1326	SNYDER DAVID	4-0	3-E	217C	40 26 21	75 13 46	2 S P M 4	3 0	0
1327	MILEY MR	4-0	2-F	217C			3 S P M 4	5 0	0
1328	SMITH P ALFRED	4-0	2-E	217C			3 S P M 4	5 0	0
1329	MOSEBERG B M	4-0	3-E	207D	40 22 30	75 16 16	1 S P M 4	1 0	0
1330	FHEENSELEY MARK	4-0	3-E	207D	40 22 27	75 15 25	2 S P M 4	3 0	0
1331	PHINNEY MARK	4-0	3-E	207D			3 S P M 4	3 0	0
1332	MISTARD HERBERT	4-0	3-E	217C	40 20 53	75 14 24	1 S P M 4	1 0	0
1333	CLEMMER MR	4-0	3-E	217C	40 20 51	75 14 27	1 S P M 4	1 0	0
1334	BDR FOREST	4-0	3-E	217C	40 20 52	75 14 33	3 S P M 4	1 0	0
1335	BDR FOREST C	4-0	3-E	217A	40 22 59	75 16 55	3 S P M 4	1 0	0
1336	BDR FOREST C	4-0	3-E	207D			3 S P M 4	1 0	0
1337	HENNRICK ROBERT	4-0	3-E	207D			3 S P M 4	3 0	0
1338	KRAFT EDWARD	4-0	3-E	217C			3 S P M 4	3 0	0
1339	PAYNE FRANK	4-0	3-E	207D			3 S P M 4	3 0	0
1340	CHESSMAN CLINT	4-0	3-E	207D			3 S P M 4	3 0	0
1341	GLADFELTER L	4-0	3-E	207D	40 21 29	75 16 8	2 S P M 4	1 0	0
1342	JOHNSON BDR	4-0	3-E	207D			3 S P M 4	5 0	0
1343	REPP ROBERT	4-0	3-E	207D			3 S P M 4	5 0	0
1344	COONEY M JOHN	4-0	3-E	207D			3 S P M 4	5 0	0
1345	KAMINSKI H J	4-0	3-E	207D			3 S P M 4	5 0	0
1346	CIFFONE JOSEPH	4-0	2-F	217C			3 S P M 4	5 0	0
1347	KAPP E RAY	4-0	2-F	217C			3 S P M 4	1 0	0
1705	GARVIS E GLENN	4-0	3-E	207D			3 S P M 4	3 0	0
1706	HARTMAN BRUCE	4-0	2-F	217C	40 18 57	75 14 20	3 S P M 4	1 0	0







DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17105  
 SURFACE WATER INVENTORY SYSTEM  
 REPORT TYPE A

WELL RECORDS HAVE NOT BEEN FIELD CHECKED.1

ORIGINAL (Red)

WELL NO.	OWNER	SUB-PA	SUB-QUAD	LATITUDE	LONGITUDE	RES	DATE	TIME	STATUS
4041	CRONPTON WALLY	4-D	2-F	2108	40 13 51	75	12	2 5 P M	1
4042	ROCKWILL BLDGS	4-D	2-F	2108	40 13 54	75	10	2 5 P M	1
4043	TOMKINSON MEMO	4-D	2-F	220A	40 14 10	74	59	4 4 2 5 P M	1
4044	BRIDGE ELLI	4-D	2-F	2108	40 13 31	75	51	2 1 P M	1
4049	SEASH WILLY	4-D	2-F	2108	40 11 36	75	59	2 5 P M	1
4050	BLASIMA CARL	4-D	2-F	220A	40 11 16	74	56	13 2 5 P M	1
4054	RUCKWILL BLDGS	4-D	2-F	220A	40 10 42	74	58	42 2 5 P M	1
4055	ROCKWILL BLDGS	4-D	2-F	220A	40 11 37	75	37	95 2 5 P M	1
4056	RODDIWS R	4-D	2-F	220A	40 11 2	74	57	6 2 5 P M	1
4057	MICELER H	4-D	2-F	220A	40 10 19	74	50	7 2 5 P M	1
4058	MOLROYD ROLAND	4-D	2-F	220A	40 11 14	74	58	39 2 5 P M	1
4059	CAMPBELL JOE	4-D	2-F	2108	40 11 21	75	1	24 2 5 P M	1
4060	DAHL EDNA H	4-D	2-E	2108	40 12 1	75	1	21 2 5 P M	1
4061	PHILMONT CORP	4-D	2-F	2108	40 12 50	75	2	5 2 5 P M	1
4062	LANS FRANK J	4-D	2-F	220A	40 11 38	74	59	37 2 5 P M	1
4063	BRASSO MICHAEL	4-D	3-E	207B	40 22 50	75	17	54 2 5 P M	1
4109	BENNER J B	4-D	3-E	207B	40 22 50	75	17	54 2 5 P M	1
15	BLOR HOYER H	4-D	2-D	217A	40 22 41	75	9	42 1 5 P M	2
23	LAKE JOHN	4-D	2-D	217A	40 24 32	75	1	1 5 P M	1
24	LEATHEMAN A	4-D	2-D	217A	40 24 29	75	7	69 1 5 P M	1
197	BLOR ELFMAN C A	4-D	2-D	217A	40 24 29	75	7	69 1 5 P M	1
252	SCHLEICHER ROBT	4-D	2-F	217C	40 21 56	75	8	51 1 5 P M	1
291	FARUBAR R DR	4-D	2-F	217D	40 20 36	75	7	3 4 5 P M	4
731	BLDG TWP PLUMST	4-D	2-F	217A	40 23 4	75	6	57 3 5 P M	4
732	MORRISON DR	4-D	2-E	217A	40 23 13	75	1	52 1 5 P M	1
736	CALHOUN WILLIAM	4-D	2-F	217D	40 21 33	75	7	19 3 5 P M	3
735	MORRISON DAVID	4-D	2-F	217A	40 23 36	75	0	2 3 5 P M	1

AR 100690



ORIGINAL  
(Red)

WELL RECORDS HAVE NOT BEEN FIELD CHECKED.]

BUCKS COUNTY

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE A

APR 1, 1983

BUR. OF TOPO. AND GEOLOGIC SURVEY

WELL NO.	OWNER	SUB.	SUB-QUAD	QUAD	LATITUDE	LONGITUDE	RES	DATE	TIME	DEPTH	STATUS
764	SWINNER HOWARD	4-0	2-E	217D	40 22 21	75 5 35	2 5 P M A 1 1 2				
765	GORKIN FLO	4-0	2-F	217C	40 22 3	75 0 67	4 8 P M A 1 0				
766	MASH A LUYNER	4-0	2-F	217C	40 21 39	75 9 6	4 8 P M A 1 2				
767	BUCHEMERT KARL	4-0	2-F	217A	40 25 22	75 6 20	4 8 P M A 1 0				
768	SHEEHAN GEORGE	4-0	2-F	217D	40 22 48	75 5 27	5 5 P M A 2 0				
769	MASH LUTHER	4-0	2-F	217B	40 22 48	75 5 27	2 5 P M A 1 0				
770	YOUNGER M.	4-0	2-D	217A			5 5 P M A 1 5				
771	BURD DAVID	4-0	2-D	217A	40 25 19	75 6 31	5 8 P M A 3 0				
772	BUCHEMERT KARL	4-0	2-F	217B	40 25 19	75 6 31	2 8 P M A 1 0				
773	ROTHMAN CHARLES	4-0	2-F	217B	40 23 12	75 8 58	2 8 P M A 1 0				
774	JANKE L G	4-0	2-D	217A	40 23 30	75 6 49	5 5 P M A 5 0				
804	GREEN ROBERT	4-0	2-E	217B	40 21 32	75 4 22	4 8 P M A 3 0				
805	HARRINGTON ED	4-0	2-E	217B	40 21 32	75 4 22	4 8 P M A 3 0				
859	PA DEPT OF FORE	4-0	2-D	217D	40 26 3	75 6 1	5 8 P M A 0 3 0				
890	KNAUS RICHARD	4-0	2-F	217B	40 24 51	75 6 37	5 8 P M A 1 0				
1053	KANALA ED	4-0	2-E	217B	40 21 42	75 5 3	2 8 P M A 1 0				
1106	IFFRIGG JOSEPH	4-0	2-D	217C	40 21 51	75 11 16	2 8 P M A 1 0				
1117	VAN MORRIS C	4-0	2-D	217C	40 21 54	75 11 16	2 8 P M A 1 0				
1241	HUNSBERGER RAY	4-0	2-F	217D	40 20 57	75 1 8	4 8 P M A 2 2				
1253	DEWEILER ALVIN	4-0	2-F	217C	40 22 6	75 9 50	5 8 P M A 2 0				
1259	SEALS LYLE	4-0	2-F	217C	40 21 6	75 9 41	5 8 P M A 1 0				
1433	MC SWAN JOHN	4-0	2-F	217A	40 23 22	75 8 50	1 5 P M A 1 0				
1434	DOMEVAN WM	4-0	2-F	217C			5 5 P M A 3 0				
1405	DAVIES JAMES	4-0	2-F	217C	40 22 12	75 8 32	4 8 P M A 1 0				
1485	CO CLOTH FRETZ	4-0	2-F	217C			5 8 P M A 1 0				
1486	CO CLOTH FRETZ	4-0	2-F	217C			5 8 P M A 1 0				
1487	MOBERSMITH Z	4-0	2-F	217D	40 25 18	75 6 39	1 5 P M A 1 0				

AR 100692

ORIGINAL  
(Red)

AUGUST 4, 1983

BUCKS COUNTY

BELL RECORDS HAVE NOT BEEN FIELD CHECKED.)

BUR. OF TOPO. AND GEOLOGIC SURVEY  
DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17123  
GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE A

PAGE: 94

TOWNSHIP

NO. 0 0 Y Y .. OWNER .. BAS. BAS. CODE 6 N C 8 N C 1 V P E E A L R O E 0 E E A

XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX

PLUMSTEAD	1488	1	2	2-F	217C	40	21	12	75	7	13	1	5	P	M	1	0
PLUMSTEAD	1489	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1490	1	2	2-E	217B	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1491	1	2	2-D	217A	40	25	24	75	1	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1492	1	2	2-D	217B	40	22	45	75	0	44	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1493	1	2	2-D	217B	40	26	49	75	6	59	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1494	1	2	2-F	217A	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1495	1	2	2-D	217A	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1496	1	2	2-D	217A	40	25	24	75	1	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1497	1	2	2-D	217A	40	25	24	75	1	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1498	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1499	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1500	1	2	2-D	217A	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1501	1	2	2-F	217A	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
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PLUMSTEAD	1506	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
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PLUMSTEAD	1511	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1512	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1513	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1514	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1515	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1516	1	2	2-F	217C	40	21	12	75	7	13	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
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PLUMSTEAD	1518	1	2	2-E	217B	40	22	45	75	0	44	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1519	1	2	2-E	217B	40	22	45	75	0	44	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1520	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1521	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1522	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
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PLUMSTEAD	1524	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1525	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1526	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1527	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
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PLUMSTEAD	1529	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
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PLUMSTEAD	1555	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1556	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1557	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1558	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1559	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1560	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1561	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1562	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1563	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1564	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1565	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1566	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1567	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1568	1	2	2-F	217D	40	25	18	75	5	37	1	5	P <td>M <td>1</td> <td>0</td> </td>	M <td>1</td> <td>0</td>	1	0
PLUMSTEAD	1569	1	2	2-F	217D	40	25	18	75	5	37	1	5	P</			







ORIGINAL:  
(Red)

AUGUST 6, 1985

BUCKS COUNTY

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
GROUNDWATER INVENTORY SYSTEM

PAGE 2

WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.1

REPORT TYPE 0

FIELD CHEMISTRY

WELL NO.	WELL TYPE	WELL DEPTH	WELL CASING	WELL DIA	WELL IE	WELL ST	WELL H	WELL DATE	WELL YIELD	WELL ODN	WELL PERIOD	WELL RATE	WELL E	WELL S	WELL R	WELL X	WELL Y	WELL Z
27	1	2	260	3	33	6	X	A	966	25	D	9/60	8.0	1	175	3	5.00	
28	1	2	235	3	30	6	X	A	966	0	D	8/66	18.0	1	120	1	1.00	
29	1	2	215	3	50	6	X	A	967	30	D	7/67	50.0	1	120	1	1.00	
30	1	2	155	3	30	6	X	A	967	450	5		450	5				
31	1	2	640	3	35	8	X	A	967	80	D	7/67	30.0	1	59	3	6.00	
32	1	2	670	3	32	8	X	A	967	490	5		490	5				
33	1	2	148	3	32	6	X	A	967	30	D	5/67	30.0	1	62	3	6.00	
34	1	2	195	3	31	6	X	A	967	425	5		425	5				
35	1	2	195	3	30	6	X	A	966	50	D	2/67	12.0	1	75	3	2.00	
37	1	2	115	3	30	6	X	A	966	60	D	8/66	30.0	1	28	1	4.00	
38	1	2	275	3	30	6	X	A	966	370	5		370	5				
39	1	2	225	3	30	6	X	A	966	70	D	9/66	5.0	1	130	3	6.00	
40	1	2	225	3	32	6	X	A	967	435	5		435	5				
41	1	2	125	3	33	6	X	A	967	435	5		435	5				
431	1	2	125	3	33	6	X	A	967	12	D	3/67	8.0	1	88	3	6.00	
752	1	2	124	3	30	6	X	A	967	18	D	4/67	15.0	1	82	1	6.00	
1099	1	2	240	3	30	6	X	A	969	65	D	0/69	20.0	1	58	0	6.00	
1100	1	2	225	3	30	6	X	A	969	3	D	5/69	50.0	1	115	1	6.00	
1101	1	2	175	3	40	6	X	A	969	35	D	8/68	15.0	1	115	1	6.00	
1102	1	2	196	3	27	6	X	A	970	5	D	5/70	5.0	1			6.00	
1103	1	2	94	3	37	6	X	A	969	0	D	0/69	30.0	1			6.00	
1104	1	2	215	3	42	6	X	A	970	30	D	1/70	30.0	1	120	3	6.00	
1105	1	2	135	3	59	6	X	A	970	40	D	8/70	60.0	1	120	3	6.00	
1106	1	2	300	3	32	6	X	A	970	8	D	1/70	3.0	1	165	5	6.00	
1109	1	2	175	3	32	6	X	A	970	15	D	3/70	7.0	1	91	3	6.00	
1499	1	2	135	3	30	6	X	A	969	4	D	8/69	12.0	1	91	3	6.00	
1600	1	2	155	3	30	6	X	A	969	45	D	4/69	30.0	1	95	3	6.00	
1591	1	2	270	3	41	6	X	A	969	30	D	8/69	100.0	1	250	1	6.00	

ART 00696

AUGUST 6, 1968

BURNS COUNTY

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120

PAGE: 5

FIELD COMMENTS

(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

ORIGIN:  
(Red)

TOWNSHIP	WELL NO.	DEPTH	CASED	DIAMETER	DATE	FIELD	PERIOD	STATUS	SHAPE	REMARKS									
BEDMINSTER	1682	110	3	31	6	X A	970	420	5	80	0	0/70	5.0	1	143	5	6.00		
BEDMINSTER	1750	110	3	30	6	X A	970	430	5	25	0	0/70	5.0	1		5	6.00		
BEDMINSTER	3105	192	2	61	6	X A				80	0	0/75	1.0	1	240		6.00		
BEDMINSTER	3106	250	0	31	6	X A				50	2	0/75	7.0	1	599		6.00		
BEDMINSTER	3109	199	2	65	6	X A				48	0	0/76	15.0	1	143		6.00		
BEDMINSTER	3110	125	0	30	6	X A				48	0	0/76	18.0	1	140		6.00		
BEDMINSTER	3111	155	0	30	6	X A				50	0	0/76	18.0	1	95		6.00		
BEDMINSTER	3112	165	0	42	6	X A				48	0	3/72	70.0	1			6.00		
BEDMINSTER	3113	125	0	30	6	X A				18							6.00		
BEDMINSTER	3114	192	2	30	6	X A				100		0/72	60.0				6.00		
BEDMINSTER	3117	102	0	35	6	X A				0/75	100.0						6.00		
BEDMINSTER	3118	122	2	45	6	X A				0/75	45.0						6.00		
BEDMINSTER	3120	140	0	40	6	X A				0/75	0						6.00		
BEDMINSTER	1095	155	3	52	6	X A	969	540	5	8	0	0/69	80.0	1	143	5	6.00		
BEDMINSTER	1296	142	1	30	6	X A	968	405	5	40	0	0/69	5.4	1	100	3	6.00		
BEDMINSTER	1097	155	3	30	6	X A	969	405	5	75	0	0/69	40.0	1	58	3	6.00		
BEDMINSTER	1098	135	3	32	6	X A	968	440	5	28	0	0/68	25.0	1	28	1	6.00		
BEDMINSTER	40	78	3	25	6	X A	968	60	5	20	0	0/68	10.0	1	69	3	6.00		
BEDMINSTER	41	112	3	50	6	X A	968	65	5	20	0	0/69	10.0	1	80	3	6.00		
BEDMINSTER	42	140	3	30	6	X A	969	65	5	25	0	0/69	15.0	1	115	5	6.00		
BEDMINSTER	43	174	3	25	6	X A	969	80	5	18	0	0/69	20.0	1	50	3	6.00		
BEDMINSTER	44	116	3	30	6	X C	969	60	5	18	0	0/69	20.0	1	50	3	6.00		
BEDMINSTER	45	245	3	43	6	X A	968	20	5	100	0	0/68	8.0	1	100	3	6.00		
BEDMINSTER	46	112	3	30	6	X A	968	20	5	15	0	0/68	12.0	1	65	3	6.00		
BEDMINSTER	47	112	3	30	6	X A	968	25	5	15	0	0/68	6.0	1	65	3	6.00		
BEDMINSTER	48	82	3	32	6	X A	967	140	5	17	0	0/67	25.0	1			6.00		
BEDMINSTER	49	142	3	32	6	X A	968	68	5	20	0	0/68	20.0	1	80	3	6.00		

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ORIGINAL (Red)

WELL NO.	DEPTH	DIA	DATE	YIELD	HEAD	PERIOD	RAISED	DATE
2187	1	9	60	3	53	6 X A 974	20	0
2188	1	9	52	3	31	6 X A 974	20	0
2189	1	9	52	3	22	6 X A 974	20	0
2190	1	9	52	3	27	6 X A 974	20	0
2191	1	9	50	3	21	6 X A 974	20	0
2192	1	9	57	3	16	6 X A 974	20	0
2193	1	9	52	3	17	6 X A 974	20	0
2194	1	9	57	3	21	6 X A 974	20	0
2195	1	9	57	3	15	6 X A 974	20	0
2196	1	9	52	3	15	6 X A 974	20	0
2197	1	9	52	3	15	6 X A 974	20	0
2198	1	9	52	3	15	6 X A 974	20	0
2199	1	9	52	3	15	6 X A 974	20	0

AR 100698

AUGUST 4, 1963

BUR. OF TOPO. AND GEOLOGIC SURVEY  
 DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
 GROUNDWATER INVENTORY SYSTEM  
 REPORT TYPE B

WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED. J

FIELD CHEMISTRY

WELL NO.	DEPTH	DIA	DATE	YIELD	HEAD	PERIOD	RAISED	DATE
2400	1	9	60	3	23	6 X A 974	20	0
2401	1	9	57	3	15	6 X A 974	20	0
2402	1	9	67	3	20	6 X A 974	20	0
2403	1	9	52	3	15	6 X A 974	20	0
2404	1	9	52	3	25	6 X A 974	20	0
2405	1	9	57	3	19	6 X A 974	20	0
2406	1	9	52	3	19	6 X A 974	20	0
2407	1	9	52	3	20	6 X A 974	20	0
2408	1	9	52	3	21	6 X A 974	20	0
2409	1	9	57	3	18	6 X A 974	20	0
2410	1	9	57	3	19	6 X A 974	20	0
2411	1	9	57	3	21	6 X A 974	20	0
2412	1	9	57	3	21	6 X A 974	20	0
2413	1	9	57	3	15	6 X A 974	20	0
2414	1	9	57	3	15	6 X A 974	20	0
2415	1	9	52	3	23	6 X A 974	20	0
2416	1	9	52	3	30	6 X A 974	20	0
2417	1	9	122	3	30	6 X A 974	20	0
2418	1	9	120	0	23	6 X A 974	20	0
2419	1	9	200	0	26	6 X A 974	20	0
2420	1	9	3580	0	6	6 X A 974	20	0
2421	1	9	275	3	30	6 X A 974	20	0
2422	1	9	340	3	30	6 X A 974	20	0
2423	1	9	253	3	22	6 X A 974	20	0
2424	1	9	140	3	31	6 X A 974	20	0
2425	1	9	143	3	28	6 X A 974	20	0
2426	1	9	225	3	6	6 X A 974	20	0
2427	1	9	215	3	30	6 X A 974	20	0

WELL NO.	DEPTH	DIA	DATE	YIELD	HEAD	PERIOD	RAISED	DATE
2428	1	9	20	0	4/7/74	15.0	0	13
2429	1	9	20	0	5/7/74	20.0	0	19
2430	1	9	20	0	6/7/74	50.0	0	18
2431	1	9	20	0	6/7/74	5.0	0	13
2432	1	9	20	0	4/7/74	10.0	0	13
2433	1	9	20	0	5/7/74	25.0	0	20
2434	1	9	20	0	5/7/74	50.0	0	29
2435	1	9	20	0	6/7/74	40.0	0	13
2436	1	9	20	0	4/7/74	15.0	0	20
2437	1	9	20	0	5/7/74	50.0	0	13
2438	1	9	20	0	5/7/74	50.0	0	13
2439	1	9	20	0	5/7/74	20.0	0	13
2440	1	9	20	0	5/7/74	20.0	0	3
2441	1	9	20	0	5/7/74	20.0	0	3
2442	1	9	20	0	5/7/74	60.0	0	3
2443	1	9	20	0	5/7/74	10.0	0	3
2444	1	9	20	0	5/7/74	10.0	0	3
2445	1	9	20	0	6/7/74	40.0	0	17
2446	1	9	10	0	6/7/74	40.0	0	25
2447	1	9	15	0	9/7/74	10.0	0	3
2448	1	9	16	0	1/7/77	2.0	0	3
2449	1	9	60	0	6/6/80	5.0	0	3
2450	1	9	45	0	0/6/66	2.0	0	3
2451	1	9	20	0	9/6/66	40.0	0	1
2452	1	9	20	0	9/6/66	18.0	0	1
2453	1	9	20	0	9/6/66	2.0	0	1
2454	1	9	20	0	9/6/66	11.0	0	1

54 D/66

ORIGINAL  
(Red)

AUGUST 6, 1968

BURNS COUNTY

DEPT. OF ENVIRONMENTAL RESOURCES - HARRISBURG, PA 17122  
GROUNDWATER INVESTIGATORY SYSTEM  
REPORT TYPE B

PAGE: 55

(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

\*\* FIELD CHEMISTRY

TOWNSHIP	WELL NO.	DEPTH	DIAMETER	STATUS	DATE	YIELD	PERIOD	DATE	FIELD CHEMISTRY
HILLTOWN	448	95	6 X A	966	0/66	19.0	2.00	2.00	
HILLTOWN	449	125	6 X A	966	9/66	0.0	2.00	2.00	
HILLTOWN	450	132	6 X A	966	9/66	19.0	2.00	2.00	
HILLTOWN	452	295	6 X A	967	4/67	5.0	2.00	2.00	
HILLTOWN	456	130	6 X A	966	7/66	29.0	2.00	2.00	
HILLTOWN	455	157	6 X A	968	9/66	0.0	2.00	2.00	
HILLTOWN	456	143	6 X A	966	8/66	6.0	2.00	2.00	
HILLTOWN	457	265	6 X A	966	3/66	14.0	2.00	2.00	
HILLTOWN	458	323	6 X A	966	15/66	25.0	2.00	2.00	
HILLTOWN	459	175	6 X A	966	6/66	25.0	2.00	2.00	
HILLTOWN	460	160	6 X A	966	6/66	17.0	1.00	1.00	
HILLTOWN	461	110	6 X A	967	15/66	25.0	2.00	2.00	
HILLTOWN	462	105	6 X A	967	9/66	19.0	2.00	2.00	
HILLTOWN	463	185	6 X A	967	20/66	7.0	2.00	2.00	
HILLTOWN	464	215	6 X A	967	4/67	6.0	1.60	5.00	
HILLTOWN	465	323	6 X A	967	3/66	14.0	2.65	6.00	
HILLTOWN	466	235	6 X A	967	5/66	30.0	1.59	6.00	
HILLTOWN	467	95	6 X A	967	2/66	25.0	0.30	4.00	
HILLTOWN	468	155	6 X A	967	2/66	15.0	1.92	4.00	
HILLTOWN	469	155	6 X A	967	20/66	4.0	1.39	5.00	
HILLTOWN	470	195	6 X A	968	5/66	50.0	2.00	2.00	
HILLTOWN	471	195	6 X A	968	8/66	22.0	6.00	6.00	
HILLTOWN	472	215	6 X A	966	5/66	60.0	1.50	3.00	
HILLTOWN	473	353	6 X A	967	3/66	3.0	7.5	2.00	
HILLTOWN	475	142	6 X A	969	5/66	4.0	6.0	2.00	
HILLTOWN	476	157	6 X A	968	9/66	0.0	6.2	2.00	

56 0/68

ORIGINAL  
(Red)

HILLTOWN	463	1	9	183	3	30	6	X	A	967	0	20	0	6/67	27.0	50	3	2.30	56	2/68
HILLTOWN	464	1	9	215	3	40	6	X	A	967	0	20	0	6/67	7.0	50	3	2.30	56	2/68
HILLTOWN	465	1	9	122	3	30	6	X	A	967	0	35	0	6/67	16.0	1	265	3	6.00	
HILLTOWN	466	1	9	235	3	38	6	X	A	967	0	50	0	6/67	30.0	1	150	3	6.00	
HILLTOWN	467	1	9	95	3	30	6	X	A	967	0	25	0	6/67	25.0	1			6.00	
HILLTOWN	468	1	9	155	3	30	6	X	A	967	0	20	0	6/67	15.0	1	192	3	6.00	
HILLTOWN	469	1	9	155	3	30	6	X	A	967	0	20	0	6/67	4.0	1	133	3	6.00	
HILLTOWN	470	1	9	185	3	30	6	X	A	968	0	50	0	6/68	75.0	1			2.00	
HILLTOWN	471	1	9	355	3	90	4	X	A	968	0	22	0	1/68	22.0	1			6.00	
HILLTOWN	472	1	9	215	3	50	6	X	A	966	0	50	0	6/66	60.0	1	50	3	6.00	
HILLTOWN	473	1	9	151	3	30	6	X	A	967	0	30	0	6/67	3.0	1			6.00	
HILLTOWN	475	1	9	142	3	25	6	X	A	969	0	50	0	9/69	8.0	1	75	3	2.00	
HILLTOWN	476	1	9	151	3	30	6	X	A	969	0	40	0	7/68	4.0	1			6.00	
HILLTOWN	477	1	9	157	3	30	6	X	A	968	0	95	0	6/68	0.0	1	62	3	2.00	

ARI00700

AUGUST 6, 1968

BUR. OF TOPO. AND GEOLOGIC SURVEY  
DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
BUCKS COUNTY  
GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE B

[WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.]

WELL	NO.	DEPT	DEPTH	DIAM	IN.	HT	HT	DIAM	Y	LEVEL	DATE	YIELD	PERIOD	RAISED	DATE						
HILLTOWN	477	1	9	180	3	28	6	X	A	966	0	85	0	6/68	27.0	50	3	2.30	56	2/68	
HILLTOWN	478	1	9	135	3	30	6	X	A	968	0	23	0	6/68	20.0	1	217	3	2.30	56	2/68
HILLTOWN	479	1	9	256	3	27	6	X	A	968	0	40	0	6/68	8.0	1	113	3	6.00		
HILLTOWN	480	1	9	155	3	30	6	X	A	968	0	60	0	9/68	100.0	1	170	3	6.00		
HILLTOWN	481	9	2	120	5	35	6	X	A	968	0	30	0	6/68	15.0	1	55	3	6.00		
HILLTOWN	482	1	9	105	3	30	6	X	A	968	0	20	0	7/68	40.0	1	55	3	6.00		
HILLTOWN	483	1	9	85	3	30	6	X	A	968	0	80	0	7/68	30.0	1	70	3	6.00		
HILLTOWN	484	1	9	175	3	30	6	X	A	968	0	60	0	6/68	3.0	1	128	3	6.00		
HILLTOWN	485	1	9	212	3	30	6	X	A	968	0	22	0	6/68	50.0	1			2.00		
HILLTOWN	486	1	9	270	3	32	6	X	A	968	0	71	0	6/68	50.0	1			2.00		
HILLTOWN	487	1	9	345	3	30	6	X	A	968	0	35	0	6/68	12.0	1			2.00		
HILLTOWN	488	1	9	260	3	30	6	X	A	968	0	50	0	6/68	55.0	1			2.00		
HILLTOWN	489	1	9	175	3	32	6	X	A	968	0	00	0	7/68	50.0	1	85	3	99.00		
HILLTOWN	490	1	9	175	3	30	6	X	A	968	0	120	0	6/68	5.1	1			6.00		
HILLTOWN	491	1	9	130	3	30	6	X	A	969	0	40	0	6/68	3.0	1			6.00		
HILLTOWN	492	1	9	95	3	30	6	X	A	968	0	50	0	6/68	25.0	1	33	3	6.00		
HILLTOWN	493	1	9	75	3	30	6	X	A	968	0	30	0	9/68	50.0	1			6.00		
HILLTOWN	494	1	9	115	3	32	6	X	A	968	0	20	0	5/68	25.0	1			6.00		
HILLTOWN	495	1	9	155	3	30	6	X	A	968	0	40	0	6/68	8.0	1	113	3	6.00		
HILLTOWN	496	1	9	149	3	30	6	X	A	968	0	30	0	6/68	2.0	1	271	3	6.00		
HILLTOWN	497	1	9	105	3	31	6	X	A	968	0	10	0	6/68	15.0	1	252	3	6.00		
HILLTOWN	498	1	9	150	3	31	6	X	A	966	0	30	0	6/68	25.0	1	33	3	6.00		
HILLTOWN	499	1	9	150	3	31	6	X	A	966	0	10	0	6/68	15.0	1	252	3	6.00		
HILLTOWN	500	1	9	135	3	31	6	X	A	966	0	30	0	6/68	25.0	1	33	3	6.00		
HILLTOWN	501	1	9	100	3	31	6	X	A	967	0	0	6/67	16.67	6.0			2.00			
HILLTOWN	502	1	9	200	3	29	6	X	A	967	0	102	0	7/67	100.0				2.00		
HILLTOWN	503	1	9	330	3	33	6	X	A	967	0								2.00		
HILLTOWN	504	1	9	330	3	33	6	X	A	967	0								2.00		

FIELD CHEMISTRY

PAGES 56

ORIGINAL  
(Red)

AUGUST 4, 1983  
BUCKS COUNTY  
DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE B  
BUN. OF TOPO. AND GEOLOGIC SURVEY  
FIELD CENSITING

(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

WELL NO.	DEPTH	CASED	IN.	M.H.	D.	DATE	YIELD	WATER	LEVEL	WEAS	(GPA)	J.	FIELD	Y.	WRS.	J.	M.E.S.D.	P.L.E.D.	CHP	S-MAS	ULORC	LOD	PERIOD	R.A.I.E.D.	M.SAN		
HILLTOWN	505	1	9	84	3	31	6	X	A	967																	
HILLTOWN	506	1	9	183	3	31	6	X	A	967																	
HILLTOWN	507	1	9	182	3	31	6	X	A	967																	
HILLTOWN	508	1	9	142	3	35	6	X	A	968																	
HILLTOWN	509	1	9	130	3	30	6	X	A	968																	
HILLTOWN	510	1	9	130	3	30	6	X	A	968																	
HILLTOWN	511	1	9	115	3	30	6	X	A	967																	
HILLTOWN	523	1	9	70	3	36	6	X	A	965																	
HILLTOWN	611	1	9	150	3	30	6	X	A	968																	
HILLTOWN	610	1	9	105	3	30	6	X	A	960																	
HILLTOWN	1306	1	9	309	3	30	6	X	A	970																	
HILLTOWN	1307	1	9	136	3	36	6	X	A	970																	
HILLTOWN	1308	1	9	260	3	30	6	X	A	970																	
HILLTOWN	1309	1	9	135	3	30	6	X	A	970																	
HILLTOWN	1310	1	9	195	3	160	6	X	A	969																	
HILLTOWN	1311	1	9	125	3	30	6	X	A	969																	
HILLTOWN	1312	1	9	280	3	31	6	X	A	969																	
HILLTOWN	1313	1	9	106	3	30	6	X	A	970																	
HILLTOWN	1314	1	9	120	3	30	6	X	A	970																	
HILLTOWN	1315	1	9	175	3	30	6	X	A	969																	
HILLTOWN	1316	1	9	222	3	30	6	X	A	969																	
HILLTOWN	1317	1	9	100	3	25	6	X	A	970																	
HILLTOWN	1318	1	9	103	3	25	6	X	A	970																	
HILLTOWN	1319	1	9	100	3	25	6	X	A	970																	
HILLTOWN	1320	1	9	85	3	30	6	X	A	969																	
HILLTOWN	1321	1	9	270	3	30	6	X	A	970																	
HILLTOWN	1322	1	9	218	3	28	6	X	A	970																	

AR 10070

55 0/66

56 4/70

56 1/70

56 1/70









AUGUST 6, 1983

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
GROUNDWATER INVENTORY SYSTEM

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WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.

ORIGINAL  
(Red)

FIELD COMMENTS

WELL NO.	DEPTH	CASED	IN.	WELL DIA	ST	HT	DATE	YIELD	DATE	YIELD	DATE	YIELD	DATE	YIELD	DATE	YIELD	DATE	YIELD	DATE	YIELD
NORTHAMPTON	4041	1	9	170	0															
NORTHAMPTON	4042	1	9	95	0															
NORTHAMPTON	4245	1	9	172	2															
NORTHAMPTON	4044	1	9	160	0															
NORTHAMPTON	4249	1	9	75	2															
NORTHAMPTON	4054	1	9	120	0															
NORTHAMPTON	4055	1	9	95	0															
NORTHAMPTON	4056	1	9	105	0															
NORTHAMPTON	4057	1	9	105	0															
NORTHAMPTON	4058	1	9	80	0															
NORTHAMPTON	4152	1	9	122	2															
NORTHAMPTON	4060	1	9	300	0															
NORTHAMPTON	4061	1	9	155	0															
NORTHAMPTON	4062	1	9	135	0															
PERKASIE BORO	1536	1	9	200	5															
PERKASIE BORO	4109	1	9	210	0															
PLUMSTEAD	25	1	9	105	3															
PLUMSTEAD	25	1	9	65	3															
PLUMSTEAD	24	1	9	185	3															
PLUMSTEAD	197	1	9	265	3															
PLUMSTEAD	292	1	9	240	3															
PLUMSTEAD	291	1	9	195	3															
PLUMSTEAD	731	1	9	73	3															
PLUMSTEAD	732	1	9	325	3															
PLUMSTEAD	730	1	9	115	3															
PLUMSTEAD	735	1	9	325	3															

AR100705

52 6/69

ORIGINAL (Red)

ORIGINAL (Red)

WELL NO.	DEPTH	DIAMETER	DATE	YIELD	WATER QUALITY	WATER QUANTITY	WATER TEMPERATURE	WATER pH	WATER TDS	WATER TURBIDITY	WATER COLOR	WATER ODOUR	WATER TASTE	WATER TOXICITY	WATER RADIATION	WATER METALS	WATER NUTRIENTS	WATER MICROBIOLOGY	WATER CHEMISTRY
PLUMSTEAD	25	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	24	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	197	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	200	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	201	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	202	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	203	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	204	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	205	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	206	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	207	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	208	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	209	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	210	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	211	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	212	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	213	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	214	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	215	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	216	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	217	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	218	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	219	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	220	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0

AUGUST 6, 1983

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17129

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WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.

FIELD CHEMISTRY

WELL NO.	DEPTH	DIAMETER	DATE	YIELD	WATER QUALITY	WATER QUANTITY	WATER TEMPERATURE	WATER pH	WATER TDS	WATER TURBIDITY	WATER COLOR	WATER ODOUR	WATER TASTE	WATER TOXICITY	WATER RADIATION	WATER METALS	WATER NUTRIENTS	WATER MICROBIOLOGY	WATER CHEMISTRY
PLUMSTEAD	736	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	737	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	738	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	739	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	740	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	741	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	742	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	743	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	744	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	745	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	746	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	747	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	748	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	749	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	750	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	751	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	752	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	753	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	754	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	755	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	756	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	757	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	758	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	759	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	760	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	761	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	762	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0
PLUMSTEAD	763	6	1983	15	GOOD	100	60	7.5	100	10	10	0	0	0	0	0	0	0	0

AR100706

ORIGINAL  
(Red)

AUGUST 6, 1983  
BUCKS COUNTY  
DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17123  
GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE B  
BUREAU OF TOPO. AND GEOLOGIC SURVEY  
PAGES 58  
WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)  
\*\* FIELD CHECKED

WELL NO.	DEPTH	Y	CAST	IN.	H	D	TYPE	LE	ALT.	WATER	DATE	YIELD	DR	PERIOD	TERMS			
PLUMSTEAD 764	1	9	540	3	30	6	X A 967	A D	540	5	180	0	0/67	2.0	1	200	3	5.00
PLUMSTEAD 765	1	9	210	5	20	6	X A 966	A D	420	5	30	0	0/66	5.0	1	170	3	5.00
PLUMSTEAD 766	1	9	132	3	32	6	X A 967	A D	400	5	25	0	3/87	10.0	1	110	3	5.00
PLUMSTEAD 767	1	9	195	3	35	6	X A 967	A D	490	5	12	0	8/87	80.0	1	165	3	5.00
PLUMSTEAD 768	1	9	196	3	35	6	X A 967	A D	500	5	15	0	2/87	5.0	1	181	3	5.00
PLUMSTEAD 769	1	9	186	3	32	6	X A 968	A D	560	5	15	0	2/87	12.0	1	17	3	5.00
PLUMSTEAD 770	1	9	420	3	30	6	X A 967	A D	400	5	40	0	7/87	10.0	1	1	3	5.00
PLUMSTEAD 771	1	9	295	3	41	6	X A 967	A D	500	5	15	0	7/87	60.0	1	127	3	5.00
PLUMSTEAD 772	1	9	137	3	26	6	X A 968	A S	590	5	30	0	4/88	15.0	1	1	3	5.00
PLUMSTEAD 773	1	9	78	3	30	6	X A 967	A S	590	5	12	0	0/87	30.0	1	80	3	5.00
PLUMSTEAD 774	1	9	675	3	31	6	X A 967	A S	590	5	12	0	0/87	12.0	1	1	3	5.00
PLUMSTEAD 800	1	9	365	3	31	6	X A 965	A D	470	5	70	0	6/86	30.0	1	1	3	5.00
PLUMSTEAD 805	1	9	370	3	40	6	X A 966	A D	510	5	65	0	7/86	15.0	1	1	3	5.00
PLUMSTEAD 809	1	9	315	3	35	6	X A 966	A D	290	5	0	4/88	150.0	1	1	3	5.00	
PLUMSTEAD 821	1	9	111	3	32	6	X A 967	A D	520	5	20	0	2/87	30.0	1	72	3	5.00
PLUMSTEAD 1023	1	9	350	3	30	6	X A 969	A D	360	5	100	0	1/89	3.0	1	840	3	5.00
PLUMSTEAD 1106	1	9	135	3	30	6	X A 970	A D	595	5	12	0	6/70	15.0	1	1	3	5.00
PLUMSTEAD 1107	1	9	135	3	30	6	X A 970	A D	580	5	12	0	6/70	15.0	1	1	3	5.00
PLUMSTEAD 1241	1	9	115	3	31	6	X A 970	A D	465	5	30	0	7/70	20.0	1	425	3	5.00
PLUMSTEAD 1253	1	9	660	3	30	6	X A 969	A D	625	5	35	0	0/89	3.0	1	185	3	5.00
PLUMSTEAD 1255	1	9	125	3	40	10	X A 969	A D	290	5	15	0	3/88	500.0	1	185	3	5.00
PLUMSTEAD 1491	1	9	177	3	30	6	X A 969	A D	575	5	0	0	0/89	6.0	1	189	3	5.00
PLUMSTEAD 1400	1	9	115	3	41	6	X A 970	A D	430	5	35	0	6/71	18.0	1	1	3	5.00
PLUMSTEAD 1405	1	9	118	3	30	6	X A 970	A D	430	5	30	0	6/70	2.0	1	370	3	5.00
PLUMSTEAD 1406	1	9	500	3	30	6	X A 970	A D	430	5	30	0	6/70	2.0	1	370	3	5.00
PLUMSTEAD 1406	2	9	502	3	30	6	X A 970	A D	430	5	30	0	6/70	2.0	1	370	3	5.00
PLUMSTEAD 1407	1	9	115	3	30	6	X A 970	A D	430	5	30	0	6/70	2.0	1	370	3	5.00

AR 1007

ORIGINAL  
Red

PLUMSTEAD	069	1	2	315	3	35	6	X	A	966	210	2	63	0	7/60	15-0	1	3	6-00
PLUMSTEAD	121	1	2	115	1	32	6	X <td>A</td> <td>967</td> <td>298</td> <td>5</td> <td>20</td> <td>0</td> <td>7/60</td> <td>15-0</td> <td>1</td> <td>3</td> <td>6-00</td>	A	967	298	5	20	0	7/60	15-0	1	3	6-00
PLUMSTEAD	1058	1	2	650	3	30	6	X <td>A</td> <td>968</td> <td>500</td> <td>5</td> <td>100</td> <td>0</td> <td>7/60</td> <td>5-0</td> <td>1</td> <td>24</td> <td>6-00</td>	A	968	500	5	100	0	7/60	5-0	1	24	6-00
PLUMSTEAD	1106	1	2	155	5	30	6	X <td>A</td> <td>970</td> <td>505</td> <td>5</td> <td>12</td> <td>0</td> <td>6/70</td> <td>15-0</td> <td>1</td> <td>3</td> <td>6-00</td>	A	970	505	5	12	0	6/70	15-0	1	3	6-00
PLUMSTEAD	1107	1	2	185	1	30	6	X <td>A</td> <td>970</td> <td>508</td> <td>5</td> <td>12</td> <td>0</td> <td>6/70</td> <td>15-0</td> <td>1</td> <td>3</td> <td>6-00</td>	A	970	508	5	12	0	6/70	15-0	1	3	6-00
PLUMSTEAD	1241	1	2	115	3	31	6	X <td>A</td> <td>970</td> <td>465</td> <td>5</td> <td>30</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>3</td> <td>10</td> <td>6-00</td>	A	970	465	5	30	0	7/70	20-0	3	10	6-00
PLUMSTEAD	1255	1	2	440	3	30	6	X <td>A</td> <td>969</td> <td>625</td> <td>5</td> <td>35</td> <td>0</td> <td>6/60</td> <td>5-0</td> <td>3</td> <td>10</td> <td>6-00</td>	A	969	625	5	35	0	6/60	5-0	3	10	6-00
PLUMSTEAD	1255	1	2	125	1	40	10	X <td>A</td> <td>970</td> <td>220</td> <td>5</td> <td>15</td> <td>0</td> <td>7/60</td> <td>100-0</td> <td>1</td> <td>15</td> <td>25-00</td>	A	970	220	5	15	0	7/60	100-0	1	15	25-00
PLUMSTEAD	1498	1	2	177	2	20	6	X <td>A</td> <td>969</td> <td>575</td> <td>5</td> <td>0</td> <td>0</td> <td>9/60</td> <td>6-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	575	5	0	0	9/60	6-0	1	10	6-00
PLUMSTEAD	1498	1	2	155	5	41	6	X <td>A</td> <td>970</td> <td>85</td> <td>0</td> <td>85</td> <td>0</td> <td>6/70</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	85	0	85	0	6/70	10-0	1	10	6-00
PLUMSTEAD	1498	1	2	112	1	32	6	X <td>A</td> <td>970</td> <td>430</td> <td>5</td> <td>12</td> <td>0</td> <td>7/70</td> <td>2-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	430	5	12	0	7/70	2-0	1	10	6-00
PLUMSTEAD	1606	1	2	308	5	30	6	X <td>A</td> <td>970</td> <td>770</td> <td>7</td> <td>10</td> <td>0</td> <td>7/70</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	770	7	10	0	7/70	10-0	1	10	6-00
PLUMSTEAD	1606	1	2	302	5	30	6	X <td>A</td> <td>970</td> <td>770</td> <td>7</td> <td>10</td> <td>0</td> <td>7/70</td> <td>25-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	770	7	10	0	7/70	25-0	1	10	6-00
PLUMSTEAD	1697	1	2	133	1	39	6	X <td>A</td> <td>970</td> <td>500</td> <td>5</td> <td>12</td> <td>0</td> <td>7/70</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	500	5	12	0	7/70	40-0	1	10	6-00

AR100708

AUGUST 4, 1968

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120

WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED. REPORT TYPE B

FIELD CHEMISTRY

PLUMSTEAD	1660	1	2	105	5	30	6	X	A	969	250	5	25	0	7/60	4-0	1	10	6-00
PLUMSTEAD	1660	1	2	250	5	30	6	X <td>A</td> <td>969</td> <td>65</td> <td>0</td> <td>65</td> <td>0</td> <td>7/60</td> <td>12-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	65	0	65	0	7/60	12-0	1	10	6-00
PLUMSTEAD	1692	1	2	122	1	32	6	X <td>A</td> <td>969</td> <td>25-0</td> <td>5</td> <td>11</td> <td>1</td> <td>7/60</td> <td>15-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	25-0	5	11	1	7/60	15-0	1	10	6-00
PLUMSTEAD	1692	1	2	103	5	30	6	X <td>A</td> <td>969</td> <td>12</td> <td>0</td> <td>12</td> <td>0</td> <td>7/60</td> <td>15-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	12	0	12	0	7/60	15-0	1	10	6-00
PLUMSTEAD	1692	1	2	75	1	30	6	X <td>A</td> <td>969</td> <td>80</td> <td>0</td> <td>80</td> <td>0</td> <td>7/60</td> <td>60-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	80	0	80	0	7/60	60-0	1	10	6-00
PLUMSTEAD	1694	1	2	157	2	30	6	X <td>A</td> <td>969</td> <td>570</td> <td>5</td> <td>20</td> <td>0</td> <td>7/60</td> <td>15-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	570	5	20	0	7/60	15-0	1	10	6-00
PLUMSTEAD	1694	1	2	157	2	30	6	X <td>A</td> <td>969</td> <td>187</td> <td>0</td> <td>187</td> <td>0</td> <td>7/60</td> <td>7-0</td> <td>5</td> <td>10</td> <td>6-00</td>	A	969	187	0	187	0	7/60	7-0	5	10	6-00
PLUMSTEAD	1697	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td> <td>0</td> <td>7/60</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	07/60	0	07/60	0	7/60	10-0	1	10	6-00
PLUMSTEAD	1698	1	2	215	1	31	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	40	5	32	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	115	5	34	6	X <td>A</td> <td>971</td> <td>300</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	300	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	23	1	30	6	X <td>A</td> <td>971</td> <td>118</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	118	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td> <td>0</td> <td>7/60</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	07/60	0	07/60	0	7/60	10-0	1	10	6-00
PLUMSTEAD	1698	1	2	215	1	31	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	40	5	32	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	115	5	34	6	X <td>A</td> <td>971</td> <td>300</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	300	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	23	1	30	6	X <td>A</td> <td>971</td> <td>118</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	118	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td> <td>0</td> <td>7/60</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	07/60	0	07/60	0	7/60	10-0	1	10	6-00
PLUMSTEAD	1698	1	2	215	1	31	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	40	5	32	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	115	5	34	6	X <td>A</td> <td>971</td> <td>300</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	300	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	23	1	30	6	X <td>A</td> <td>971</td> <td>118</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	118	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td> <td>0</td> <td>7/60</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	07/60	0	07/60	0	7/60	10-0	1	10	6-00
PLUMSTEAD	1698	1	2	215	1	31	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	40	5	32	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	115	5	34	6	X <td>A</td> <td>971</td> <td>300</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	300	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	23	1	30	6	X <td>A</td> <td>971</td> <td>118</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	118	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td> <td>0</td> <td>7/60</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	07/60	0	07/60	0	7/60	10-0	1	10	6-00
PLUMSTEAD	1698	1	2	215	1	31	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	40	5	32	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	115	5	34	6	X <td>A</td> <td>971</td> <td>300</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	300	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	23	1	30	6	X <td>A</td> <td>971</td> <td>118</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	118	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td> <td>0</td> <td>7/60</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	07/60	0	07/60	0	7/60	10-0	1	10	6-00
PLUMSTEAD	1698	1	2	215	1	31	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	40	5	32	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	115	5	34	6	X <td>A</td> <td>971</td> <td>300</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	300	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	23	1	30	6	X <td>A</td> <td>971</td> <td>118</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	118	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td> <td>0</td> <td>7/60</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	07/60	0	07/60	0	7/60	10-0	1	10	6-00
PLUMSTEAD	1698	1	2	215	1	31	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	40	5	32	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	115	5	34	6	X <td>A</td> <td>971</td> <td>300</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	300	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	23	1	30	6	X <td>A</td> <td>971</td> <td>118</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	118	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td> <td>0</td> <td>7/60</td> <td>10-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	07/60	0	07/60	0	7/60	10-0	1	10	6-00
PLUMSTEAD	1698	1	2	215	1	31	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	40	5	32	6	X <td>A</td> <td>970</td> <td>07/70</td> <td>0</td> <td>07/70</td> <td>0</td> <td>7/70</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	970	07/70	0	07/70	0	7/70	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	115	5	34	6	X <td>A</td> <td>971</td> <td>300</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	300	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	23	1	30	6	X <td>A</td> <td>971</td> <td>118</td> <td>5</td> <td>20</td> <td>0</td> <td>6/71</td> <td>20-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	971	118	5	20	0	6/71	20-0	1	10	6-00
PLUMSTEAD	1698	1	2	33	3	31	6	X <td>A</td> <td>969</td> <td>10</td> <td>0</td> <td>10</td> <td>0</td> <td>7/60</td> <td>40-0</td> <td>1</td> <td>10</td> <td>6-00</td>	A	969	10	0	10	0	7/60	40-0	1	10	6-00
PLUMSTEAD	1698	1	2	235	3	33	6	X <td>A</td> <td>969</td> <td>07/60</td> <td>0</td> <td>07/60</td>	A	969	07/60	0	07/60						

ORIGINAL  
(Red)

AUGUST 6, 1968

DUCAS COUNTY  
(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE B

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TOWNSHIP	WELL NO.	S	E	T	Y	WELL DEPTH	A	DEPTH	DIA.	IE	ST	HT	DATE	SURF	WATER	LEVEL	MEAS.	YIELD	DOB	PERIOD	DATE	CH	P
PLUMSTEAD	3290	1	2			265	0	31	6	X	A		4/77	6-0	0	230		2-23					
PLUMSTEAD	3291	1	2			307	0	30	6	X	A		0/75	7-0	5	307		1-19					
PLUMSTEAD	3292	1	2			193	2	25	5	X	A		3/72	1-0	1	175		1-20					
PLUMSTEAD	3293	1	2			310	0	30	6	X	A		0/72	5-0	0	300		6-20					
PLUMSTEAD	3294	1	2			233	0	30	6	X	A		0/75	7-0	0	205		4-00					
PLUMSTEAD	3295	1	2			235	0	31	6	X	A		0/74	2-0	1	155		2-20					
PLUMSTEAD	3296	1	2			230	0	20	6	X	A		5/76	4-0	1	205		6-20					
PLUMSTEAD	3297	1	2			185	0	30	6	X	A		3/71	10-0	1	100		6-20					
PLUMSTEAD	3298	1	2			235	0	30	6	X	A		0/72	0-0	0	120		1-20					
PLUMSTEAD	3299	1	2			155	0	30	6	X	A		0/75	5-0	0	150		4-20					
PLUMSTEAD	3300	1	2			155	0	40	6	X	A		0/75	5-0	0	150		4-20					
PLUMSTEAD	3301	1	2			152	2	31	6	X	A		0/75	5-0	0	150		4-20					
PLUMSTEAD	3302	1	2			115	0	32	6	X	A		0/75	30-0	1	05		2-20					
PLUMSTEAD	3303	1	2			105	0	32	6	X	A		1/75	15-0	1	05		1-20					
PLUMSTEAD	3304	1	2			115	0	25	6	X	A		0/71	0-0	1	05		1-20					
QUAKERTOWN BORO	1062	1	2			105	3	30	6	X	A	966	5/66	00-0	1	05	5	6-20					
QUAKERTOWN BORO	1067	1	2			600	3	46	10	X	A	968	7/68	10-0	1	122	5	1-00					
QUAKERTOWN BORO	1067	1	2			188	1	31	6	X	A	967	0/67	0-0	1	05	1	1-20					
QUAKERTOWN BORO	1506	1	2			91	3	40	6	X	A	969	4/69	30-0	1	199	3	6-20					
RICHLAND	775	1	2			235	3	60	4	X	A	960	10-0	2/68	00-0	1	199	3	6-20				
RICHLAND	776	1	2			135	3	31	6	X	A	968	4-0	0	1	05	1	1-20					
RICHLAND	777	1	2			03	3	22	6	X	A	960	7/68	7-0	0	0	0	2-20					
RICHLAND	778	1	2			515	3	41	6	X	A	960	0/68	7-0	0	0	0	2-20					
RICHLAND	779	1	2			135	1	31	6	X	A	968	0/68	0-0	1	05	1	1-20					
RICHLAND	780	1	2			135	3	30	6	X	A	967	0/68	0-0	1	05	1	1-20					
RICHLAND	781	1	2			77	3	21	6	X	A	968	0/68	0-0	1	05	1	1-20					
RICHLAND	782	1	2			80	3	32	6	X	A	968	1/65	0-0	1	05	1	1-20					

AR 100709



AUGUST 4, 1983

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BUCKS COUNTY

REPORT TYPE C

ORIGINAL  
(Red)

WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED. 1

MAJOR AQUIFER ..... MINOR AQUIFER .....

SURF TRANS STORE

WELL NO.	TYPE	DEPTH	DATE	STATUS	MAJOR AQUIFER	MINOR AQUIFER	DEPTH	DATE	STATUS	SURF TRANS STORE	MAT.	COEF	COEF
27	1	9	6	8	3	28	F	207	60	80	5	0	
28	1	9	6	8	3	28	F	205	60	135	6	0	
29	1	9	6	8	3	28	F	155	115	150	5	0	
30	1	9	6	8	3	28	V	125	120	165	6	0	
31	1	9	6	8	3	28	V	405	65	205	6	0	
32	1	9	6	8	3	28	F	430	90	100	6	0	
33	1	9	6	8	3	25	F	100	96	130	25	0	
34	1	9	6	8	3	25	Z	124	50	75	4	0	
35	1	9	6	8	3	25	F	165	98	190	5	0	
37	1	9	6	8	3	25	F	285	70	205	4	0	
38	1	9	6	8	3	25	F	245	65	205	3	0	
39	1	9	6	8	3	25	F	178	100	125	4	0	
51	1	9	6	8	3	25	F	92	55	65	5	0	
451	1	9	6	8	3	25	F	94	35	115	5	0	
752	1	9	6	8	3	20	Z	94	35	115	5	0	
1099	1	9	6	8	3	25	F	195	100	225	5	0	
1100	1	9	6	8	3	25	F	185	125	185	5	0	
1101	1	9	6	8	3	25	F	271	260	270	10	0	
1102	1	9	6	8	3	25	Z				5	0	
1103	1	9	6	8	3	25	Z				5	0	
1104	1	9	6	8	3	25	Z				5	0	
1105	1	9	6	8	3	25	F	126	115	140	6	0	
1106	1	9	6	8	3	25	F	260	260	130	5	0	
1107	1	9	6	8	3	25	F	148	80	100	4	0	
1108	1	9	6	8	3	25	Z	105	140	100	5	0	
1109	1	9	6	8	3	25	F	125	140	260	5	0	
1110	1	9	6	8	3	25	F	94	35	115	5	0	

AR100711



Table with columns: BEMINSTER, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1100, 1101. Includes numerical data and a page number '3'.

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AUGUST 4, 1981

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BUCKS COUNTY  
GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE C

(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

Table with columns: ORIGINAL (Red), TOWNSHIP, BEMINSTER, 1602, 1750, 1725, 1305, 1309, 1310, 1311, 1312, 1313, 1314, 1317, 1318, 1320, 1095, 1096, 1097, 1098, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49. Includes numerical data and a page number '3'.

Main data table with columns: BEMINSTER, 1602, 1750, 1725, 1305, 1309, 1310, 1311, 1312, 1313, 1314, 1317, 1318, 1320, 1095, 1096, 1097, 1098, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49. Includes numerical data and a page number '3'.



DR GINAH  
(Red)

AUGUST 6, 1993

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GROUND WATER  
SURFACE WATER  
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WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.]

MAJOR AQUIFER MINOR AQUIFER

SURF TRANS STORE

WELL	DATE	DEPTH	SCREEN	STATUS	MAJOR AQUIFER	MINOR AQUIFER	SURF	TRANS	STORE						
HILLTOWN	460	1	9	4	0	R 3 25	F	67	48	F	85	20	0	0	U
HILLTOWN	449	1	9	6	0	R 3 25	F	98	98	F	115	18	0	0	U
HILLTOWN	458	1	9	4	0	R 3 25	F	104	108	F	121	18	0	0	U
HILLTOWN	452	1	9	6	0	R- 1X	Z	296	175	F	225	22	0	0	U
HILLTOWN	454	1	9	6	0	R 3 25	F	102	92	F	120	16	0	0	U
HILLTOWN	453	1	9	6	0	R 3 25	Z	127	105	Z	145	17	0	0	U
HILLTOWN	454	1	9	4	0	R- 1X	Z	110	95	Z	130	17	0	0	U
HILLTOWN	457	1	9	4	0	R- 1X	Z	235	95	Z	251	9	0	0	U
HILLTOWN	458	1	9	4	0	R 3 25	Z	295	85	Z	318	9	0	0	U
HILLTOWN	459	1	9	6	0	R 3 25	F	147	120	F	166	18	0	0	U
HILLTOWN	460	1	9	4	0	R 3 25	F	131	134	F	150	28	0	0	U
HILLTOWN	461	1	9	6	0	R 3 25	F	57	74	F	95	45	0	0	U
HILLTOWN	462	1	9	4	0	R 3 25	F	153	154	F	157	24	0	0	U
HILLTOWN	463	1	9	4	0	R 3 25	F	155	142	F	175	28	0	0	U
HILLTOWN	464	1	9	6	0	R 3 25	F	175	188	F	183	3	0	0	U
HILLTOWN	465	1	9	6	0	R 3 25	Z	290	75	Z	200	4	0	0	F
HILLTOWN	466	1	9	6	0	R 3 25	F	202	75	F	100	4	0	0	F
HILLTOWN	467	1	9	6	0	R 3 25	F	65	50	F	61	15	0	0	Z
HILLTOWN	468	1	9	6	0	R- 1X	Z	125	32	Z	425	5	0	0	Z
HILLTOWN	469	1	9	6	0	R- 1X	Z	125	45	Z	55	5	0	0	Z
HILLTOWN	470	1	9	4	0	R 3 25	F	152	154	F	175	22	0	0	U
HILLTOWN	471	1	9	6	0	R- 1X	F	265	154	F	265	14	0	0	U
HILLTOWN	472	1	9	6	0	R 3 25	Z	165	145	Z	200	10	0	0	Z
HILLTOWN	473	1	9	6	0	R- 1X	Z	325	155	Z	300	5	0	0	Z
HILLTOWN	475	1	9	6	0	R 3 25	Z	117	65	Z	90	9	0	0	P
HILLTOWN	476	1	9	6	0	R 3 25	Z	127	105	Z	145	1	0	0	P
HILLTOWN	477	1	9	4	0	R 3 25	Z	127	105	Z	145	1	0	0	P

XXXXXXXXXXXXXXXXXXXX XXXX X XX XX K K X X XX XX K XXX XXXX XXXX X X XX XX K XXX XXXX XXXX XXXX X XXXX X XXXX X XX X XX X XX X

ORIGINAL  
(Red)

AUGUST 1, 1983

BUCKS COUNTY

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
GROUNDWATER INVENTORY SYSTEM

REPORT TYPE C

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(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

MAJOR AQUIFER MINOR AQUIFER

SUM TRANS STARS

WELL NO.	TOWNSHIP	DATE	DEPTH	STATUS	CONSTRUCTION	SCREENING	TESTING	RESULTS	ANALYSIS	COMMENTS	TRANS	STARS
477	HILLTOWN	9 4 8	R 3 25	F								
478	HILLTOWN	1 9 4 8	R - 1X	Z								
480	HILLTOWN	1 9 4 8	R 3 25	F								
481	HILLTOWN	1 9 4 8	R 3 25	F								
482	HILLTOWN	1 9 4 8	R 3 25	F								
483	HILLTOWN	1 9 4 8	R 3 25	F								
484	HILLTOWN	1 9 4 8	R - 1X	Z								
485	HILLTOWN	1 9 4 8	R 3 25	Z								
486	HILLTOWN	1 9 4 8	R 3 25	F								
487	HILLTOWN	1 9 4 8	R 3 25	F								
488	HILLTOWN	1 9 4 8	R - 1X	Z								
489	HILLTOWN	1 9 4 8	R 3 25	F								
490	HILLTOWN	1 9 4 8	R 3 25	F								
491	HILLTOWN	1 9 4 8	R - 1X	Z								
492	HILLTOWN	1 9 4 8	R 3 25	Z								
493	HILLTOWN	1 9 4 8	R 3 25	Z								
494	HILLTOWN	1 9 4 8	R 3 25	F								
495	HILLTOWN	1 9 4 8	R 3 25	F								
497	HILLTOWN	1 9 4 8	R 3 25	F								
498	HILLTOWN	1 9 4 8	R 3 25	Z								
499	HILLTOWN	1 9 4 8	R 3 25	F								
500	HILLTOWN	1 9 4 8	R - 1X	F								
501	HILLTOWN	1 9 4 8	R 3 25	F								
502	HILLTOWN	1 9 4 8	R 3 25	L								
503	HILLTOWN	1 9 4 8	R 3 25	C								
504	HILLTOWN	1 9 4 8	R 3 25	C								

AR100715







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DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120

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BUCH'S CANYON

DEPT. OF TOPO. AND GEOLOGIC SURVEY  
GROUNDWATER INVESTIGATION SYSTEM  
REPORT VPPC C

LOCATIONS WITH 1981 WATER LEVELS CHECKED-1  
SUM. TRANS. STOR.

(Red)

WELL	NO.	TYPE	DATE	DEPTH	WATER LEVEL	TEMP.	COND.	SP. GRAV.	CHLORIDE	SULFATE	CALC.	TOTAL	COEF.	COEF.
WILLTOWN	3393	1	9	48	R 3 20									
WILLTOWN	3397	1	9	60	R 3 20									
WILLTOWN	3398	1	9	18	R 3 20									
WILLTOWN	3399	1	9	60	R 3 20									
WILLTOWN	3400	1	9	60	R 3 20									
WILLTOWN	3401	1	9	60	R 3 20									
WILLTOWN	3402	1	9	60	R 3 20									
WILLTOWN	3403	1	9	60	R 3 20									
WILLTOWN	3404	1	9	60	R 3 20									
WILLTOWN	3405	1	9	60	R 3 20									
WILLTOWN	3406	1	9	60	R 3 20									
WILLTOWN	3407	1	9	60	R 3 20									
WILLTOWN	3408	1	9	60	R 3 20									
HULMEVILLE	1349	1	9	18	R 3 20									
HULMEVILLE	1350	1	9	18	R 3 20									
HULMEVILLE	1351	1	9	18	R 3 20									
HULMEVILLE	1352	1	9	18	R 3 20									
HULMEVILLE	1353	1	9	18	R 3 20									
HULMEVILLE	1354	1	9	18	R 3 20									
HULMEVILLE	1355	1	9	18	R 3 20									
HULMEVILLE	1356	1	9	18	R 3 20									
HULMEVILLE	1357	1	9	18	R 3 20									
HULMEVILLE	1358	1	9	18	R 3 20									
HULMEVILLE	1359	1	9	18	R 3 20									
HULMEVILLE	1360	1	9	18	R 3 20									
HULMEVILLE	1361	1	9	18	R 3 20									
HULMEVILLE	1362	1	9	18	R 3 20									
HULMEVILLE	1363	1	9	18	R 3 20									
HULMEVILLE	1364	1	9	18	R 3 20									
HULMEVILLE	1365	1	9	18	R 3 20									
HULMEVILLE	1366	1	9	18	R 3 20									
HULMEVILLE	1367	1	9	18	R 3 20									
HULMEVILLE	1368	1	9	18	R 3 20									
HULMEVILLE	1369	1	9	18	R 3 20									
HULMEVILLE	1370	1	9	18	R 3 20									
HULMEVILLE	1371	1	9	18	R 3 20									
HULMEVILLE	1372	1	9	18	R 3 20									
HULMEVILLE	1373	1	9	18	R 3 20									
HULMEVILLE	1374	1	9	18	R 3 20									
HULMEVILLE	1375	1	9	18	R 3 20									
HULMEVILLE	1376	1	9	18	R 3 20									
HULMEVILLE	1377	1	9	18	R 3 20									
HULMEVILLE	1378	1	9	18	R 3 20									
HULMEVILLE	1379	1	9	18	R 3 20									
HULMEVILLE	1380	1	9	18	R 3 20									
HULMEVILLE	1381	1	9	18	R 3 20									
HULMEVILLE	1382	1	9	18	R 3 20									
HULMEVILLE	1383	1	9	18	R 3 20									
HULMEVILLE	1384	1	9	18	R 3 20									
HULMEVILLE	1385	1	9	18	R 3 20									
HULMEVILLE	1386	1	9	18	R 3 20									
HULMEVILLE	1387	1	9	18	R 3 20									
HULMEVILLE	1388	1	9	18	R 3 20									
HULMEVILLE	1389	1	9	18	R 3 20									
HULMEVILLE	1390	1	9	18	R 3 20									
HULMEVILLE	1391	1	9	18	R 3 20									
HULMEVILLE	1392	1	9	18	R 3 20									
HULMEVILLE	1393	1	9	18	R 3 20									
HULMEVILLE	1394	1	9	18	R 3 20									
HULMEVILLE	1395	1	9	18	R 3 20									
HULMEVILLE	1396	1	9	18	R 3 20									
HULMEVILLE	1397	1	9	18	R 3 20									
HULMEVILLE	1398	1	9	18	R 3 20									
HULMEVILLE	1399	1	9	18	R 3 20									
HULMEVILLE	1400	1	9	18	R 3 20									
HULMEVILLE	1401	1	9	18	R 3 20									
HULMEVILLE	1402	1	9	18	R 3 20									
HULMEVILLE	1403	1	9	18	R 3 20									
HULMEVILLE	1404	1	9	18	R 3 20									
HULMEVILLE	1405	1	9	18	R 3 20									
HULMEVILLE	1406	1	9	18	R 3 20									
HULMEVILLE	1407	1	9	18	R 3 20									
HULMEVILLE	1408	1	9	18	R 3 20									
HULMEVILLE	1409	1	9	18	R 3 20									
HULMEVILLE	1410	1	9	18	R 3 20									
HULMEVILLE	1411	1	9	18	R 3 20									
HULMEVILLE	1412	1	9	18	R 3 20									
HULMEVILLE	1413	1	9	18	R 3 20									
HULMEVILLE	1414	1	9	18	R 3 20									
HULMEVILLE	1415	1	9	18	R 3 20									
HULMEVILLE	1416	1	9	18	R 3 20									
HULMEVILLE	1417	1	9	18	R 3 20									
HULMEVILLE	1418	1	9	18	R 3 20									
HULMEVILLE	1419	1	9	18	R 3 20									
HULMEVILLE	1420	1	9	18	R 3 20									
HULMEVILLE	1421	1	9	18	R 3 20									
HULMEVILLE	1422	1	9	18	R 3 20									
HULMEVILLE	1423	1	9	18	R 3 20									
HULMEVILLE	1424	1	9	18	R 3 20									
HULMEVILLE	1425	1	9	18	R 3 20									
HULMEVILLE	1426	1	9	18	R 3 20									
HULMEVILLE	1427	1	9	18	R 3 20									
HULMEVILLE	1428	1	9	18	R 3 20									
HULMEVILLE	1429	1	9	18	R 3 20									
HULMEVILLE	1430	1	9	18	R 3 20									
HULMEVILLE	1431	1	9	18	R 3 20									
HULMEVILLE	1432	1	9	18	R 3 20									
HULMEVILLE	1433	1	9	18	R 3 20									
HULMEVILLE	1434	1	9	18	R 3 20									
HULMEVILLE	1435	1	9	18	R 3 20									
HULMEVILLE	1436	1	9	18	R 3 20									
HULMEVILLE	1437	1	9	18	R 3 20									
HULMEVILLE	1438	1	9	18	R 3 20									
HULMEVILLE	1439	1	9	18	R 3 20									
HULMEVILLE	1440	1	9	18	R 3 20									
HULMEVILLE	1441	1	9	18	R 3 20									
HULMEVILLE	1442	1	9	18	R 3 20									
HULMEVILLE	1443	1	9	18	R 3 20									
HULMEVILLE	1444	1	9	18	R 3 20									
HULMEVILLE	1445	1	9	18	R 3 20									
HULMEVILLE	1446	1	9	18	R 3 20									
HULMEVILLE	1447	1	9	18	R 3 20									
HULMEVILLE	1448	1	9	18	R 3 20									
HULMEVILLE	1449	1	9	18	R 3 20									
HULMEVILLE	1450	1	9	18	R 3 20									
HULMEVILLE	1451	1	9	18	R 3 20									
HULMEVILLE	1452	1	9	18	R 3 20									
HULMEVILLE	1453	1	9	18	R 3 20									
HULMEVILLE	1454	1	9	18	R 3 20									
HULMEVILLE	1455	1	9	18	R 3 20									
HULMEVILLE	1456	1	9	18	R 3 20									
HULMEVILLE	1457	1	9	18	R 3 20									
HULMEVILLE	1458	1	9	18	R 3 20									
HULMEVILLE	1459	1	9	18	R 3 20									
HULMEVILLE	1460	1	9	18	R 3 20									
HULMEVILLE	1461	1	9	18	R 3 20									
HULMEVILLE	1462	1	9	18	R 3 20									
HULMEVILLE	1463	1	9	18	R 3 20									
HULMEVILLE	1464	1	9	18	R 3 20									
HULMEVILLE	1465	1	9	18	R 3 20									
HULMEVILLE	1466	1	9	18	R 3 20									
HULMEVILLE	1467	1	9	18	R 3 20									
HULMEVILLE	1468	1	9	18	R 3 20									
HULMEVILLE	1469	1	9	18	R 3 20									
HULMEVILLE	1470	1	9	18	R 3 20									
HULMEVILLE	1471	1	9	18	R 3 20									
HULMEVILLE	1472	1	9	18										







PLUMSTEAD	749	1	9	4	0	5	R-1X	Z	274	150	Z	300	Z	7	0	0	Z
PLUMSTEAD	750	1	9	4	0	5	R-1X	Z	275	150	Z	301	Z	1	0	0	Z
PLUMSTEAD	751	1	9	4	0	5	R-1X	Z	276	150	Z	302	Z	1	0	0	Z
PLUMSTEAD	752	1	9	4	0	5	R-1X	Z	277	150	Z	303	Z	1	0	0	Z
PLUMSTEAD	753	1	9	4	0	5	R-1X	Z	278	150	Z	304	Z	1	0	0	Z
PLUMSTEAD	754	1	9	4	0	5	R-1X	Z	279	150	Z	305	Z	1	0	0	Z
PLUMSTEAD	755	1	9	4	0	5	R-1X	Z	280	150	Z	306	Z	1	0	0	Z
PLUMSTEAD	756	1	9	4	0	5	R-1X	Z	281	150	Z	307	Z	1	0	0	Z
PLUMSTEAD	757	1	9	4	0	5	R-1X	Z	282	150	Z	308	Z	1	0	0	Z
PLUMSTEAD	758	1	9	4	0	5	R-1X	Z	283	150	Z	309	Z	1	0	0	Z
PLUMSTEAD	759	1	9	4	0	5	R-1X	Z	284	150	Z	310	Z	1	0	0	Z
PLUMSTEAD	760	1	9	4	0	5	R-1X	Z	285	150	Z	311	Z	1	0	0	Z
PLUMSTEAD	761	1	9	4	0	5	R-1X	Z	286	150	Z	312	Z	1	0	0	Z
PLUMSTEAD	762	1	9	4	0	5	R-1X	Z	287	150	Z	313	Z	1	0	0	Z
PLUMSTEAD	763	1	9	4	0	5	R-1X	Z	288	150	Z	314	Z	1	0	0	Z

AR100722

AUGUST 4, 1968

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120

PAGE: 93

WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED-1

WELL NO.	S	C	T	M	I	T	I	R	T	I	R	SURF		MATERIAL	COEF	COEF	
												TRANS	STORE				
PLUMSTEAD	764	1	9	4	0	5	R-1X	Z	310	60	Z	95	Z	4	0	0	Z
PLUMSTEAD	765	1	9	4	0	5	R-1X	Z	101	45	Z	165	Z	4	0	0	Z
PLUMSTEAD	766	1	9	4	0	5	R-1X	Z	123	60	Z	168	Z	13	0	0	Z
PLUMSTEAD	767	1	9	1	0	5	R-1X	Z	130	120	Z	151	Z	10	0	0	Z
PLUMSTEAD	768	1	9	1	0	5	R-1X	Z	163	90	Z	170	Z	10	0	0	Z
PLUMSTEAD	769	1	9	1	0	5	R-1X	Z	104	45	Z	135	Z	7	0	0	Z
PLUMSTEAD	770	1	9	1	0	5	R-1X	Z	390	260	Z	400	Z	5	0	0	Z
PLUMSTEAD	771	1	9	1	0	5	R-1X	Z	254	110	Z	280	Z	6	0	0	Z
PLUMSTEAD	772	1	9	1	0	5	R-1X	Z	131	20	Z	128	Z	4	0	0	Z
PLUMSTEAD	773	1	9	4	0	5	R-1X	Z	445	45	Z	65	Z	4	0	0	Z
PLUMSTEAD	774	1	9	1	0	5	R-1X	Z	454	280	Z	410	Z	10	0	0	Z
PLUMSTEAD	775	1	9	1	0	5	R-1X	Z	334	165	Z	325	Z	5	0	0	Z
PLUMSTEAD	776	1	9	1	0	5	R-1X	Z	330	125	Z	265	Z	10	0	0	Z
PLUMSTEAD	777	1	9	1	0	5	R-1X	Z	260	45	Z	280	Z	6	0	0	Z
PLUMSTEAD	778	1	9	1	0	5	R-1X	Z	83	55	Z	75	Z	2	0	0	Z
PLUMSTEAD	779	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	780	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	781	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	782	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	783	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	784	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	785	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	786	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	787	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	788	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	789	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	790	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	791	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	792	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	793	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	794	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	795	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	796	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	797	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	798	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	799	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	800	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	801	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	802	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	803	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	804	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	805	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	806	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	807	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	808	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	809	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	810	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	811	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	812	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	813	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	814	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	815	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	816	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	817	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	818	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	819	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	820	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	821	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	822	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	823	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	824	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	825	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	826	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	827	1	9	4	0	5	R-1X	Z	84	60	Z	110	Z	6	0	0	Z
PLUMSTEAD	828	1	9	4	0	5	R-1X	Z	410	85	Z	100	Z	1	0	0	Z
PLUMSTEAD	829	1	9	4	0	5	R-1X	Z	320	105	Z	185	Z	5	0	0	Z
PLUMSTEAD	830	1	9	4	0	5	R-1X	Z	105	40	Z	125	Z	4	0	0	Z
PLUMSTEAD	831	1	9	4	0	5	R-1X	Z	125	35	Z	52	Z	1	0	0	Z
PLUMSTEAD	832	1	9	4	0	5	R-1X	Z	84	60	Z	1					

AUGUST 4, 1985

BUCKS COUNTY DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120

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ORIGINAL (Red)

SHELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.

MAJOR AQUIFER MINOR AQUIFER

SUM TRANS STORC

NO.	WELL	TYPE	DEPTH	SCREEN	STATUS	DATE	DEPTH	SCREEN	STATUS	DATE	DEPTH	SCREEN	STATUS	DATE	DEPTH	SCREEN	STATUS	DATE
1480	PLUMSTEAD	1	9	1	0	R-1X	Z	375	300	Z	600	5	D	0	0	0	0	0
1489	PLUMSTEAD	1	9	1	0	R-1X	Z	220	120	Z	220	6	D	0	0	0	0	0
1490	PLUMSTEAD	1	9	1	0	R-1X	Z	36	28	Z	101	5	D	0	0	0	0	0
1498	PLUMSTEAD	1	9	1	0	R-1X	Z	65	35	Z	80	22	D	0	0	0	0	0
1492	PLUMSTEAD	1	9	1	0	R-1X	Z	370	170	Z	230	5	D	0	0	0	0	0
1493	PLUMSTEAD	1	9	1	0	R-1X	Z	45	55	Z	70	8	D	0	0	0	0	0
1494	PLUMSTEAD	1	9	1	0	R-1X	Z	127	20	Z	35	10	D	0	0	0	0	0
1495	PLUMSTEAD	1	9	1	0	R-1X	Z	127	40	Z	100	8	D	0	0	0	0	0
1496	PLUMSTEAD	1	9	1	0	R-1X	Z	356	280	Z	360	22	D	0	0	0	0	0
1497	PLUMSTEAD	1	9	1	0	R-1X	Z	24	40	Z	45	5	D	0	0	0	0	0
1498	PLUMSTEAD	1	9	1	0	R-1X	Z	202		Z		7	D	0	0	0	0	0
1500	PLUMSTEAD	1	9	1	0	R-1X	Z	192		Z		12	D	0	0	0	0	0
1501	PLUMSTEAD	1	9	1	0	R-1X	Z	60	60	Z	115	10	D	0	0	0	0	0
1502	PLUMSTEAD	1	9	1	0	R-1X	Z	33		Z		12	D	0	0	0	0	0
1503	PLUMSTEAD	1	9	1	0	R-1X	Z	61	60	Z		10	D	0	0	0	0	0
1504	PLUMSTEAD	1	9	1	0	R-1X	Z	65	55	Z	80	18	D	0	0	0	0	0
1505	PLUMSTEAD	1	9	1	0	R-1X	Z	125	110	Z	135	6	D	0	0	0	0	0
1506	PLUMSTEAD	1	9	1	0	R-1X	Z	65	55	Z	85	10	D	0	0	0	0	0
1507	PLUMSTEAD	1	9	1	0	R-1X	Z	175	100	Z	185	4	D	0	0	0	0	0
1567	PLUMSTEAD	1	9	1	0	R-1X	Z	75	35	Z	65	7	D	0	0	0	0	0
1567	PLUMSTEAD	1	9	1	0	R-1X	Z	25	55	Z	55	4	D	0	0	0	0	0
1729	PLUMSTEAD	1	9	1	0	R-1X	Z	340	45	Z	100	4	D	0	0	0	0	0
1730	PLUMSTEAD	1	9	1	0	R-1X	Z	127	40	Z	75	6	D	0	0	0	0	0
3286	PLUMSTEAD	1	9	1	0	R-1X	Z			Z								
3287	PLUMSTEAD	1	9	1	0	R-1X	Z			Z								
3288	PLUMSTEAD	1	9	1	0	R-1X	Z			Z								
3289	PLUMSTEAD	1	9	1	0	R-1X	Z			Z								

NO.	WELL	TYPE	DEPTH	SCREEN	STATUS	DATE	DEPTH	SCREEN	STATUS	DATE	DEPTH	SCREEN	STATUS	DATE	DEPTH	SCREEN	STATUS	DATE
1480	PLUMSTEAD	1	9	1	0	R-1X	Z	375	300	Z	600	5	D	0	0	0	0	0
1489	PLUMSTEAD	1	9	1	0	R-1X	Z	220	120	Z	220	6	D	0	0	0	0	0
1490	PLUMSTEAD	1	9	1	0	R-1X	Z	36	28	Z	101	5	D	0	0	0	0	0
1498	PLUMSTEAD	1	9	1	0	R-1X	Z	65	35	Z	80	22	D	0	0	0	0	0
1492	PLUMSTEAD	1	9	1	0	R-1X	Z	370	170	Z	230	5	D	0	0	0	0	0
1493	PLUMSTEAD	1	9	1	0	R-1X	Z	45	55	Z	70	8	D	0	0	0	0	0
1494	PLUMSTEAD	1	9	1	0	R-1X	Z	127	20	Z	35	10	D	0	0	0	0	0
1495	PLUMSTEAD	1	9	1	0	R-1X	Z	127	40	Z	100	8	D	0	0	0	0	0
1496	PLUMSTEAD	1	9	1	0	R-1X	Z	356	280	Z	360	22	D	0	0	0	0	0
1497	PLUMSTEAD	1	9	1	0	R-1X	Z	24	40	Z	45	5	D	0	0	0	0	0
1498	PLUMSTEAD	1	9	1	0	R-1X	Z	202		Z		7	D	0	0	0	0	0
1500	PLUMSTEAD	1	9	1	0	R-1X	Z	192		Z		12	D	0	0	0	0	0
1501	PLUMSTEAD	1	9	1	0	R-1X	Z	60	60	Z	115	10	D	0	0	0	0	0
1502	PLUMSTEAD	1	9	1	0	R-1X	Z	33		Z		12	D	0	0	0	0	0
1503	PLUMSTEAD	1	9	1	0	R-1X	Z	61	60	Z		10	D	0	0	0	0	0
1504	PLUMSTEAD	1	9	1	0	R-1X	Z	65	55	Z	80	18	D	0	0	0	0	0
1505	PLUMSTEAD	1	9	1	0	R-1X	Z	125	110	Z	135	6	D	0	0	0	0	0
1506	PLUMSTEAD	1	9	1	0	R-1X	Z	65	55	Z	85	10	D	0	0	0	0	0
1507	PLUMSTEAD	1	9	1	0	R-1X	Z	175	100	Z	185	4	D	0	0	0	0	0
1567	PLUMSTEAD	1	9	1	0	R-1X	Z	75	35	Z	65	7	D	0	0	0	0	0
1567	PLUMSTEAD	1	9	1	0	R-1X	Z	25	55	Z	55	4	D	0	0	0	0	0
1729	PLUMSTEAD	1	9	1	0	R-1X	Z	340	45	Z	100	4	D	0	0	0	0	0
1730	PLUMSTEAD	1	9	1	0	R-1X	Z	127	40	Z	75	6	D	0	0	0	0	0
3286	PLUMSTEAD	1	9	1	0	R-1X	Z			Z								
3287	PLUMSTEAD	1	9	1	0	R-1X	Z			Z								
3288	PLUMSTEAD	1	9	1	0	R-1X	Z			Z								
3289	PLUMSTEAD	1	9	1	0	R-1X	Z			Z								

APR 07 23

ORIGINAL  
(Red)

WELL	DATE	DEPTH	TYPE	STATUS	CONDUCTIVITY	TEMPERATURE	PH	RESISTIVITY	TEMPERATURE	PH	RESISTIVITY
PLUMSTEAD	1502	1	9	4	0	5	R-1X	Z	01	60	2
PLUMSTEAD	1503	1	9	4	0	5	R-1X	Z	32	55	2
PLUMSTEAD	1504	1	9	4	0	5	R-1X	Z	65	110	2
PLUMSTEAD	1505	1	9	4	0	5	R-1X	Z	125	185	2
PLUMSTEAD	1508	1	9	4	0	5	R-1X	Z	65	58	2
PLUMSTEAD	1567	1	9	4	0	5	R-1X	Z	175	100	2
PLUMSTEAD	1567	1	9	4	0	5	R-1X	Z	75	35	2
PLUMSTEAD	1720	1	9	4	0	5	R-1X	Z	52	52	2
PLUMSTEAD	1729	1	9	4	0	5	R-1X	Z	340	45	2
PLUMSTEAD	1730	1	9	4	0	5	R-1X	Z	127	60	2
PLUMSTEAD	1826	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	1827	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	1828	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	1829	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	1830	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	1831	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	1832	1	9	4	0	5	R-1X	Z			

ARI00724

AUGUST 6, 1983

DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120

GROUNDWATER INVENTORY SYSTEM

REPORT TYPE C

PAGE: 95

(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

MAJOR AQUIFER

SUB TRANS STORE

WELL	DATE	DEPTH	TYPE	STATUS	CONDUCTIVITY	TEMPERATURE	PH	RESISTIVITY	TEMPERATURE	PH	RESISTIVITY
PLUMSTEAD	3290	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3291	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3292	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3293	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3294	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3295	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3296	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3297	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3298	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3299	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3300	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3301	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3302	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3303	1	9	4	0	5	R-1X	Z			
PLUMSTEAD	3304	1	9	4	0	5	R-1X	Z			
QUAKERTOWN BORO	1062	1	9	4	0	5	R-1X	Z	155	60	2
QUAKERTOWN BORO	1063	1	9	4	0	5	R-1X	Z	356	60	2
QUAKERTOWN BORO	1064	1	9	4	0	5	R-1X	Z	40	40	2
QUAKERTOWN BORO	1506	1	9	4	0	5	R-1X	Z	53	60	2
QUAKERTOWN BORO	1507	1	9	4	0	5	R-1X	Z	175	75	2
QUAKERTOWN BORO	1508	1	9	4	0	5	R-1X	Z	104	60	2
RICHLAND	776	1	9	4	0	5	R-1X	Z	56	62	2
RICHLAND	777	1	9	4	0	5	R-1X	Z	474	390	2
RICHLAND	778	1	9	4	0	5	R-1X	Z	105	60	2
RICHLAND	779	1	9	4	0	5	R-1X	Z	105	45	2
RICHLAND	780	1	9	4	0	5	R-1X	Z	56	35	2
RICHLAND	781	1	9	4	0	5	R-1X	Z	40	51	2
RICHLAND	782	1	9	4	0	5	R-1X	Z			

TOWNSHIP

XXXXXXXXXXXXXXXXX XXXX X XX XX X X X XX XX X XXX XXX XXXX XXXX X X XX XX X XXX XXXX XXXX XXXX XXXX X XXXX X XXXX X XX X

ORIGINAL  
(Red)

AUGUST 4, 1963

DEPT. OF ENVIRONMENTAL RESOURCES - HARRISBURG, PA 17122

PAGE 1

PAGES EMPTY  
WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED

BUR. OF TOPO. AND GEOLOGIC SURVEY  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
GROUNDWATER INVENTORY SYSTEM  
REPORT PAGE 2

WATER-BEARING ZONES

WELL NO.	TOWNSHIP	CODE	ZONE	DEPTH	YIELD	QUALITY	STATUS
3623	DAVENINGHAM	7-23.0	1	55	62	...	...
3818	BEDMINSTER	7-23.0	1	60	250	...	...
4243	BEDMINSTER	7-23.0	1	61	80	...	...
1963	BEDMINSTER	7-23.0	1	62	115	50	...
1	BEDMINSTER	7-23.0	1	80	165	190	...
2	BEDMINSTER	7-23.0	1	121	35	100	...
3	BEDMINSTER	7-23.0	1	90	100	165	...
4	BEDMINSTER	7-23.0	1	125	80	150	...
5	BEDMINSTER	7-23.0	1	65	40	91	...
6	BEDMINSTER	7-23.0	1	85	40	130	...
7	BEDMINSTER	7-23.0	1	85	150	165	...
8	BEDMINSTER	7-23.0	1	80	150	157	...
9	BEDMINSTER	7-23.0	1	170	300	...	...
10	BEDMINSTER	7-23.0	1	60	80	225	...
11	BEDMINSTER	7-23.0	1	80	105	150	...
12	BEDMINSTER	7-23.0	1	200	12	295	...
13	BEDMINSTER	7-23.0	1	44	3	132	...
14	BEDMINSTER	7-23.0	1	80	103	165	...
15	BEDMINSTER	7-23.0	1	170	2	390	...
16	BEDMINSTER	7-23.0	1	120	5	157	...
17	BEDMINSTER	7-23.0	1	125	20	185	...
18	BEDMINSTER	7-23.0	1	125	14	155	...
19	BEDMINSTER	7-23.0	1	70	20	105	...
20	BEDMINSTER	7-23.0	1	40	10	125	...
21	BEDMINSTER	7-23.0	1	65	59	94	...
22	BEDMINSTER	7-23.0	1	...	...	...	...
23	BEDMINSTER	7-23.0	1	...	...	...	...
24	BEDMINSTER	7-23.0	1	...	...	...	...
25	BEDMINSTER	7-23.0	1	...	...	...	...
26	BEDMINSTER	7-23.0	1	...	...	...	...

AR100725

ORIGINAL (Red)

AUGUST 6, 1963

BUCKS COUNTY

BUR. OF TOPO. AND GEOLOGIC SURVEY  
DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120

PAGE 2

(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE P

WELL NO.	DATE	DEPTH	TYPE	STATUS	CONC.	TEMP.	PH	ANAL.	REMARKS
10	7-21-60	220	L						
11	7-21-60	220	L						
12	7-21-60	220	L						
13	7-21-60	220	L						
14	7-21-60	220	L						
15	7-21-60	220	L						
16	7-21-60	220	L						
17	7-21-60	220	L						
18	7-21-60	220	L						
19	7-21-60	220	L						
20	7-21-60	220	L						
21	7-21-60	220	L						
22	7-21-60	220	L						
23	7-21-60	220	L						
24	7-21-60	220	L						
25	7-21-60	220	L						
26	7-21-60	220	L						

WELL NO.	DATE	DEPTH	TYPE	STATUS	CONC.	TEMP.	PH	ANAL.	REMARKS
27	7-21-62	220	L						
28	7-21-62	220	L						
29	7-21-62	220	L						
30	7-21-62	220	L						
31	7-21-62	220	L						
32	7-21-62	220	L						
33	7-21-62	220	L						
34	7-21-62	220	L						
35	7-21-62	220	L						
36	7-21-62	220	L						
37	7-21-62	220	L						
38	7-21-62	220	L						
39	7-21-62	220	L						
40	7-21-62	220	L						
41	7-21-62	220	L						
42	7-21-62	220	L						
43	7-21-62	220	L						
44	7-21-62	220	L						
45	7-21-62	220	L						
46	7-21-62	220	L						
47	7-21-62	220	L						
48	7-21-62	220	L						
49	7-21-62	220	L						
50	7-21-62	220	L						
51	7-21-62	220	L						
52	7-21-62	220	L						
53	7-21-62	220	L						
54	7-21-62	220	L						
55	7-21-62	220	L						
56	7-21-62	220	L						
57	7-21-62	220	L						
58	7-21-62	220	L						
59	7-21-62	220	L						
60	7-21-62	220	L						
61	7-21-62	220	L						
62	7-21-62	220	L						
63	7-21-62	220	L						
64	7-21-62	220	L						
65	7-21-62	220	L						
66	7-21-62	220	L						
67	7-21-62	220	L						
68	7-21-62	220	L						
69	7-21-62	220	L						
70	7-21-62	220	L						
71	7-21-62	220	L						
72	7-21-62	220	L						
73	7-21-62	220	L						
74	7-21-62	220	L						
75	7-21-62	220	L						
76	7-21-62	220	L						
77	7-21-62	220	L						
78	7-21-62	220	L						
79	7-21-62	220	L						
80	7-21-62	220	L						
81	7-21-62	220	L						
82	7-21-62	220	L						
83	7-21-62	220	L						
84	7-21-62	220	L						
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86	7-21-62	220	L						
87	7-21-62	220	L						
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90	7-21-62	220	L						
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96	7-21-62	220	L						
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99	7-21-62	220	L						
100	7-21-62	220	L						
101	7-21-62	220	L						
102	7-21-62	220	L						
103	7-21-62	220	L						
104	7-21-62	220	L						
105	7-21-62	220	L						
106	7-21-62	220	L						
107	7-21-62	220	L						
108	7-21-62	220	L						
109	7-21-62	220	L						
110	7-21-62	220	L						
111	7-21-62	220	L						
112	7-21-62	220	L						
113	7-21-62	220	L						
114	7-21-62	220	L						
115	7-21-62	220	L						
116	7-21-62	220	L						
117	7-21-62	220	L						
118	7-21-62	220	L						
119	7-21-62	220	L						
120	7-21-62	220	L						
121	7-21-62	220	L						
122	7-21-62	220	L						
123	7-21-62	220	L						
124	7-21-62	220	L						
125	7-21-62	220	L						
126	7-21-62	220	L						
127	7-21-62	220	L						
128	7-21-62	220	L						
129	7-21-62	220	L						
130	7-21-62	220	L						
131	7-21-62	220	L						
132	7-21-62	220	L						
133	7-21-62	220	L						
134	7-21-62	220	L						
135	7-21-62	220	L						
136	7-21-62	220	L						
137	7-21-62	220	L						
138	7-21-62	220	L						
139	7-21-62	220	L						
140	7-21-62	220	L						
141	7-21-62	220	L						
142	7-21-62	220	L						
143	7-21-62	220	L						
144	7-21-62	220	L						
145	7-21-62	220	L						
146	7-21-62	220	L						
147	7-21-62	220	L						
148	7-21-62	220	L						
149	7-21-62	220	L						
150	7-21-62	220	L						
151	7-21-62	220	L						
152	7-21-62	220	L						
153	7-21-62	220	L						
154	7-21-62	220	L						
155	7-21-62	220	L						
156	7-21-62	220	L						
157	7-21-62	220	L						
158	7-21-62	220	L						
159	7-21-62	220	L						
160	7-21-62	220	L						
161	7-21-62	220	L						

AR 100728

ORIGINAL  
(Red)

DUCKS COUNTY

AUGUST 4, 1963

BUR. OF TOPO. AND GEOLOGIC SURVEY  
DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
GROUNDWATER INVENTORY SYSTEM  
REPORT TYPE P

PAGE: 5

WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED. 1

WATER-BEARING ZONES

TOWNSHIP	NO.	E T CODE	RND	NO	SPM/FT	TEST	CL	R	E	H	D	H	D	M	D	M	D	N	A	C	A	R	S	COND	L	L	L	
DEMINSTER	1692	1	7-23.0	228																								
DEMINSTER	1790	1	7-23.0	228																								
DEMINSTER	3305	1	7-23.0	1100																								
DEMINSTER	3306	1	7-23.0	228																								
DEMINSTER	3309	1	7-23.0	228																								
DEMINSTER	3310	1	7-23.0	228																								
DEMINSTER	3311	1	7-23.0	150																								
DEMINSTER	3312	1	7-23.0	225																								
DEMINSTER	3313	1	7-23.0	225																								
DEMINSTER	3314	1	7-23.0	728																								
DEMINSTER	3317	1	7-23.0	1300																								
DEMINSTER	3318	1	7-23.0	1300																								
DEMINSTER	3320	1	7-23.0	1300																								
DEMINSTER	3328	1	7-23.0	1100																								
DEMINSTER TWP	1095	1	7-23.0	228																								
DEMINSTER TWP	1096	1	7-23.0	228																								
DEMINSTER TWP	1097	1	7-23.0	228																								
DEMINSTER TWP	1098	1	7-23.0	228																								
DEMINSTER TWP	1099	1	7-23.0	228																								
BENSALEM	40	1	8-26.0	111																								
BENSALEM	41	1	8-26.0	111																								
BENSALEM	42	1	8-26.0	111																								
BENSALEM	43	1	8-26.0	111																								
BENSALEM	44	1	8-26.0	111																								
BENSALEM	45	1	8-26.0	111																								
BENSALEM	46	1	8-26.0	111																								
BENSALEM	47	1	8-26.0	111																								
BENSALEM	48	1	8-26.0	260																								
BENSALEM	49	1	9-26.0	111																								

AR100727







ORIGINAL  
(Red)

HILLTOWN	465	1	9	7-23.0	228	3	2	105	165	157	300	.30
HILLTOWN	465	1	9	7-23.0	228	3	2	75	30	100	200	.30
HILLTOWN	467	1	9	7-22.0	228	3	2	50	25	60	75	.30
HILLTOWN	468	1	9	7-23.0	228	3	2	32	15	125	160	.30
HILLTOWN	469	1	9	7-23.0	228	3	2	45	4	65	105	.30
HILLTOWN	470	1	9	7-22.0	121	2	2	156	75	175		.30
HILLTOWN	471	1	9	7-23.0	228	2	2	145	60	200		.30
HILLTOWN	472	1	9	7-23.0	228	2	2	155	2	300		.30
HILLTOWN	473	1	9	7-23.0	228	2	2	65	8	90	130	.30
HILLTOWN	475	1	9	7-22.0	131	3	2					.30
HILLTOWN	476	1	9	7-23.0	228	3	2	105	4			.30
HILLTOWN	477	1	9	7-22.0	130	3	2					.30

ARI00730

AUGUST 6, 1983

BUCKS COUNTY

(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

BUR. OF TOPO. AND GEOLOGIC SURVEY  
 DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
 GROUNDWATER INVENTORY SYSTEM  
 REPORT TYPE P

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\*\*\*\*\* WATER-BEARING ZONES \*\*\*\*\*

TOWNSHIP	WELL NO.	TYPE	DEPTH	DATE	STATUS	ZONE	DEPTH	DATE	STATUS	ZONE	DEPTH	DATE	STATUS	ZONE	DEPTH	DATE	STATUS
HILLTOWN	477	1	9	7-22.0	121	2	2	72	27	120			.30				
HILLTOWN	478	1	9	7-22.0	130	3	2	125	20	120	135	.30					
HILLTOWN	479	1	9	7-23.0	131	2	2	35	2	160		.30					
HILLTOWN	480	1	9	7-23.0	228	2	2	98	8	145		.30					
HILLTOWN	481	1	9	7-22.0	228	4	2	50	100	70	200	.30					
HILLTOWN	482	1	9	7-23.0	228	3	2	40	15	75	95	.30					
HILLTOWN	483	1	9	7-22.0	228	2	2	65	40	80		.30					
HILLTOWN	484	1	9	7-22.0	228	2	2	95	30	165		.30					
HILLTOWN	485	1	9	7-22.0	121	3	2	80	3	100	225	.30					
HILLTOWN	487	1	9	7-23.0	121	2	2	160	50	260	260	.30					
HILLTOWN	488	1	9	7-23.0	121	2	2	305	50	335		.30					
HILLTOWN	489	1	9	7-22.0	121	2	2	165	12	245		.30					
HILLTOWN	490	1	9	7-23.0	228	2	2	95	55	110		.30					
HILLTOWN	491	1	9	7-23.0	228	2	2	95	30	165		.30					
HILLTOWN	492	1	9	7-22.0	228	2	2	80	3	100		.30					
HILLTOWN	493	1	9	7-23.0	228	2	2	70	25	90		.30					
HILLTOWN	496	1	9	7-22.0	228	2	2	50	50	65		.30					
HILLTOWN	497	1	9	7-22.0	228	3	2	75	25	95	110	.30					
HILLTOWN	498	1	9	7-21.0	228	2	2	90	6	145		.30					
HILLTOWN	499	1	9	7-21.0	228	2	2	100	2	300		.30					
HILLTOWN	500	1	9	7-21.0	228	3	2	40	15	75	95	.30					
HILLTOWN	501	1	9	7-22.0	228	2	2	265	16	350		.30					
HILLTOWN	502	1	9	7-22.0	22	2	2	70	25	125		.30					
HILLTOWN	503	1	9	7-22.0	121	2	2	54	6	89		.30					
HILLTOWN	504	1	9	7-22.0	121	2	2	140	80	190		.30					



Original (Red)

August 4, 1983

BUCKS COUNTY

DEPT. OF ENVIRONMENTAL RESOURCES - HARRISBURG, PA 17120

BUR. OF TOPO. AND GEOLOGIC SURVEY

GROUNDWATER INVENTORY SYSTEM

REPORT TYPE P

\*\*\*\*\* WATER-BEARING ZONES \*\*\*\*\*

WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.]

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WELL TOWN	NO.	DATE	DEPTH	SPEC	DUR	TEST	ZONE	FIRST	SECOND	THIRD	FOURTH	PH	S COND	A	B
HILL TOWN	1311	1	7-23.0	111			1	100	20						
HILL TOWN	1312	1	7-22.0	226			3	145	6	190					
HILL TOWN	1313	1	7-23.0	111			3	126	2	152					
HILL TOWN	1314	1	7-22.0	121			2	61	15	108					
HILL TOWN	1315	1	7-22.0	226			2	105	15	150					
HILL TOWN	1316	1	7-23.0	226			3	55	3	120					
HILL TOWN	1317	1	7-23.0	111			3	45	4	109					
HILL TOWN	1318	1	7-23.0	111			3	9	9	55					
HILL TOWN	1319	1	7-23.0	111			3	13	8	99					
HILL TOWN	1320	1	7-22.0	287			1	88	28						
HILL TOWN	1321	1	7-22.0	121			2	200	10	260					
HILL TOWN	1322	1	7-23.0	150			3	90	6	132					

AR100732

WELL TOWN	NO.	DATE	DEPTH	SPEC	DUR	TEST	ZONE	FIRST	SECOND	THIRD	FOURTH	PH	S COND	A	B
HILL TOWN	1323	1	7-23.0	287			2	100	4	110					
HILL TOWN	1324	1	7-23.0	150			3	6	6	210					
HILL TOWN	1325	1	7-22.0	226			3	66	10	220					
HILL TOWN	1326	1	7-23.0	150			3	25	5	170					
HILL TOWN	1327	1	7-23.0	111			2	46	3	230					
HILL TOWN	1328	1	7-23.0	287			2	2	2						
HILL TOWN	1329	1	7-23.0	287			2	50	12	95					
HILL TOWN	1330	1	7-22.0	150			2	75	10	95					
HILL TOWN	1331	1	7-22.0	287			2	12	12						
HILL TOWN	1332	1	7-22.0	111			2	47	3	150					
HILL TOWN	1333	3	7-23.0	111			2	40	3	105					
HILL TOWN	1334	1	7-23.0	111			2	69	4	105					
HILL TOWN	1335	2	7-23.0	111			2	103	6	228					
HILL TOWN	1336	1	7-23.0	111			2	36	55	55					
HILL TOWN	1337	1	7-22.0	121			2	123	8	160					
HILL TOWN	1338	1	7-23.0	121			2	165	5	210					
HILL TOWN	1339	1	7-22.0	121			2	125	7	205					
HILL TOWN	1340	1	7-22.0	121			2	80	30	150					
HILL TOWN	1341	1	7-22.0	228			3	90	26						
HILL TOWN	1342	1	7-22.0	287			2	209	40						
HILL TOWN	1343	1	7-22.0	287			2	4	4						
HILL TOWN	1344	1	7-22.0	287			2	6	6						
HILL TOWN	1345	1	7-23.0	287			2	160	12	265					
HILL TOWN	1347	1	7-23.0	287			2	150	5	200					
HILL TOWN	1705	1	7-22.0	121			3	230							
HILL TOWN	1706	1	7-23.0	226			3	230							









ORIGINAL (Red)

TOWNSHIP	WELL NO.	DATE	DEPTH	TEST	RESULTS	CONC.	UNIT	ANALYSIS
PERKASE BORO	1536	7-25-0	228		111			
PERKASE BORO	4809	7-25-0	512		111			
PERKASE BORO	15	7-25-0	228		111			
PERKASE BORO	28	7-25-0	228		111			
PERKASE BORO	26	7-25-0	228		111			
PERKASE BORO	197	7-25-0	130		111			
PERKASE BORO	252	7-25-0	130		111			
PERKASE BORO	291	7-25-0	228		111			
PERKASE BORO	731	7-25-0	228		111			
PERKASE BORO	732	7-25-0	228		111			
PERKASE BORO	734	7-25-0	130		111			
PERKASE BORO	735	7-25-0	228		111			

ARI00736

AUGUST 4, 1983  
 DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
 GROUNDWATER ENGINEERING SYSTEM  
 REPORT TYPE P  
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WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED. J

TOWNSHIP	WELL NO.	DATE	DEPTH	TEST	RESULTS	CONC.	UNIT	ANALYSIS
PERKASE BORO	1536	7-25-0	228		111			
PERKASE BORO	4809	7-25-0	512		111			
PERKASE BORO	15	7-25-0	228		111			
PERKASE BORO	28	7-25-0	228		111			
PERKASE BORO	26	7-25-0	228		111			
PERKASE BORO	197	7-25-0	130		111			
PERKASE BORO	252	7-25-0	130		111			
PERKASE BORO	291	7-25-0	228		111			
PERKASE BORO	731	7-25-0	228		111			
PERKASE BORO	732	7-25-0	228		111			
PERKASE BORO	734	7-25-0	130		111			
PERKASE BORO	735	7-25-0	228		111			

TOWNSHIP	WELL NO.	DATE	DEPTH	TEST	RESULTS	CONC.	UNIT	ANALYSIS
PERKASE BORO	1536	7-25-0	228		111			
PERKASE BORO	4809	7-25-0	512		111			
PERKASE BORO	15	7-25-0	228		111			
PERKASE BORO	28	7-25-0	228		111			
PERKASE BORO	26	7-25-0	228		111			
PERKASE BORO	197	7-25-0	130		111			
PERKASE BORO	252	7-25-0	130		111			
PERKASE BORO	291	7-25-0	228		111			
PERKASE BORO	731	7-25-0	228		111			
PERKASE BORO	732	7-25-0	228		111			
PERKASE BORO	734	7-25-0	130		111			
PERKASE BORO	735	7-25-0	228		111			



ORIGINAL (Red)

PLUMSTEAD	1023	1	9	7-23-0	228	2	2	105	5	105	335	0.00
PLUMSTEAD	1106	1	9	7-23-0	225	2	2	48	15	125	140	0.00
PLUMSTEAD	1107	1	9	7-23-0	225	3	2	35	50	50	140	0.00
PLUMSTEAD	1241	1	9	7-23-0	225	2	2	60	20	110	140	0.00
PLUMSTEAD	1253	1	9	7-23-0	228	3	2	05	3	160	600	0.00
PLUMSTEAD	1253	1	9	7-23-0	228	3	2	35	2	240	200	0.00
PLUMSTEAD	1453	1	9	7-23-0	130	2	2	110	4	127	105	0.00
PLUMSTEAD	1484	1	9	7-23-0	228	3	2	59	10	68	105	0.00
PLUMSTEAD	1485	1	9	7-23-0	228	1	2	140	2	200	300	0.00
PLUMSTEAD	1486	1	9	7-23-0	228	3	2	95	10	105	300	0.00
PLUMSTEAD	1487	1	9	7-23-0	228	3	2	95	25	105	300	0.00

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AUGUST 6, 1983

BUCKS COUNTY

(WELL LOCATIONS HAVE NOT BEEN FIELD CHECKED.)

BUR. OF TOPO. AND GEOLOGIC SURVEY  
DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG, PA 17120  
GROUNDWATER INVENTORY SYSTEM

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TOWNSHIP	NO.	Q	V	CODE	S	SPM/FT	TEST	EL	ME	WATER-BEARING ZONES	PH	S COND	L	LEE
PLUMSTEAD	1488	1	9	7-23-0	228	2	2	302	4	400	0.00			
PLUMSTEAD	1489	1	9	7-23-0	228	3	2	120	12	220	235	0.00		
PLUMSTEAD	1490	1	9	7-23-0	228	2	2	90	25	100	0.00			
PLUMSTEAD	1491	1	9	7-23-0	228	2	2	35	15	80	0.00			
PLUMSTEAD	1492	1	9	7-23-0	228	2	2	170	1	230	0.00			
PLUMSTEAD	1493	1	9	7-23-0	228	2	2	55	60	70	0.00			
PLUMSTEAD	1494	2	9	7-23-0	130	3	2	20	15	35	137	0.00		
PLUMSTEAD	1495	1	9	7-23-0	130	3	2	48	7	100	135	0.00		
PLUMSTEAD	1496	1	9	7-23-0	121	2	2	200	5	340	0.00			
PLUMSTEAD	1497	1	9	7-23-0	228	3	2	48	40	43	50	0.00		
PLUMSTEAD	1499	1	9	7-23-0	287	2	2	10	10	0.00				
PLUMSTEAD	1500	1	9	7-23-0	287	2	2	10	10	0.00				
PLUMSTEAD	1501	1	9	7-23-0	130	1	2	60	20	115	0.00			
PLUMSTEAD	1502	1	9	7-23-0	130	2	2	60	20	115	0.00			
PLUMSTEAD	1503	1	9	7-23-0	228	2	2	20	20	0.00				
PLUMSTEAD	1504	1	9	7-23-0	130	3	2	52	20	112	0.00			
PLUMSTEAD	1505	1	9	7-23-0	228	3	2	110	0	135	145	0.00		
PLUMSTEAD	1542	1	9	7-23-0	228	3	2	55	15	65	80	0.00		
PLUMSTEAD	1547	1	9	7-23-0	228	3	2	100	15	105	180	0.00		
PLUMSTEAD	1567	1	9	7-23-0	228	3	2	35	12	65	90	0.00		
PLUMSTEAD	1726	1	9	7-23-0	228	2	2	55	0	65	0.00			
PLUMSTEAD	1729	1	9	7-23-0	228	3	2	45	4	100	355	0.00		
PLUMSTEAD	1730	1	9	7-23-0	111	2	2	40	30	75	127	0.00		
PLUMSTEAD	3286	1	9	7-23-0	130	2	2	140		252	0.00			
PLUMSTEAD	3287	1	9	7-23-0	129	2	2	140		195	0.00			
PLUMSTEAD	3288	1	9	7-23-0	111	2	2	140		195	0.00			
PLUMSTEAD	3289	1	9	7-23-0	229	2	2	140		195	0.00			



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ORIGINAL

ORIGINAL  
(Red)

APPENDIX I

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ORIGINAL  
(Red)

ASSESSMENT OF SOURCE CONTAMINATION IN  
WHISTLEWOOD APARTMENT COMPLEX WATER SUPPLY WELL  
DUBLIN, PENNSYLVANIA

Slap, Williams and Cuker  
One Franklin Plaza  
Philadelphia, PA

RECEIVED  
GENERAL INVESTIGATION SECTION

MAR 9 1988

EPA - Region III

15 February 1988

Prepared By:

Joseph S. Tomalavage, P.G.  
Thomas R. Marks

ROY F. WESTON, INC.  
Weston Way  
West Chester, Pennsylvania 19380

AR100741

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Appendix II - Laboratory Analytical Results

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ORIGINAL  
(Red)

ASSESSMENT OF SOURCE OF CONTAMINATION IN  
WHISTLEWOOD APARTMENT COMPLEX WATER SUPPLY WELL

INTRODUCTION

Roy F. Weston, Inc., (WESTON) has been retained by attorneys representing the Whistlewood Apartment Complex (Whistlewood) Dublin, Bucks County, Pennsylvania, to evaluate information as to the source of the contamination by organic compounds detected in the water supply well at the apartment complex. See Appendix I for professional profiles of key personnel involved in this study. The investigation consisted of the evaluation of water quality data collected by the Bucks County Health Department (BCHD), Pennsylvania Department of Environmental Resources (DER), and the U.S. Environmental Protection Agency (EPA), the results of the potentially responsible party search prepared for EPA by TechLaw Inc., and published by geologic and hydrogeologic reports by DER and others. A field investigation was also conducted that involved soil and waste material sampling at the site, which the BCHD and the EPA feel is the likely source of the contamination. This property, 120 Mill Street, Dublin, Pennsylvania, has been occupied by a succession of industrial operations for the past 50 years. WESTON's evaluation of the available information agrees with the findings of the BCHD and the EPA that the property is the likely source of the organic compounds detected in varying concentrations in the Whistlewood well and other water supply wells downgradient of the property.

BACKGROUND

The Whistlewood water supply well was sampled in June 1986 by the BCHD as part of a routine testing of drinking water and was found to contain 500 ppb (parts per billion) of trichloroethylene (TCE), in excess of the EPA Recommended Maximum Contaminant Level (RMCL) of 5 ppb. Periodic sampling and analysis of the Whistlewood well since then has shown the continued presence of TCE ranging from 115 to 2318 ppb, along with 1,1,1 trichloroethane (1,1,1 TRI) ranging from non-detected to 145 ppb, and tetrachloroethylene (PCE) ranging from non-detected to 6.2 ppb.

Later sampling and analysis of ground water from other wells in Dublin also detected the presence of TCE and occasionally 1,1,1 TRI and PCE. The highest concentration of TCE (10,000 ppb) was found in a well located on the property at 120 Mill Street. Based on their investigations, the BCHD and DER,

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are of the opinion that one or more of the industrial operations that have occupied the property are responsible for the ground water contamination.

The TechLaw report states that industrial operations that have occupied the property include Dublin Hosiery Mills, Inc., (property obtained in 1945); Home Window Company of Pennsylvania, Inc. (property obtained in 1956); Kollman Motor Corp. (property obtained in 1959); Dudley Sports Division of Athlone Industries, Inc. (property obtained in 1973); Mr. John H. Thompson acquired the property in 1986 for the purpose of restoring antique cars and subsequently granted the property to a grantee identified as "120 Mill Street" later in 1986 for the same purpose.

#### HYDROGEOLOGIC SETTING

Dublin lies within the Triassic Lowlands division of the Piedmont Upland Province of Pennsylvania (Socolow, 1962). The Triassic Lowlands are characterized by interbedded non-marine elastic rocks dipping greatly to the northwest in this area due to faulting.

The lithologies which crop out in the Dublin area are the Lockatong and Brunswick Formations of the Triassic Newark Group. The Lockatong is composed of thick bedded to massive grey shale and argillite which grades into and interfingers with the overlying Brunswick Formation. The Brunswick Formation is characterized by thin-bedded red shale and siltstone with occasional sandstone interbeds. Outcrop measurements taken at four locations by WESTON during the summer of 1987 show a bedding strike of N55° - 80° E with a dip of 9° - 16° to the northwest. The dominant fracture set orientation was generally N45° E strike with a near vertical dip. A subordinate fracture set noted at one location, had a strike of N87° E and a dip of 82° to the northeast. This information agrees with the findings of a study conducted by the Neshaminy Water Resources Authority (NWRA) (1986). Figure 1 is a map view of the geologic units as they crop out in the Dublin area. Figure 2 is a geologic cross-section along Main Street in Dublin. The well numbers on these figures refer to well descriptions in Table 9 of the December 1986 hydrogeologic report prepared by the NWRA.

Ground water flow in the Dublin area is predominantly through fractures (joints) and along bedding planes. Maximum conductivity is reported as being parallel to the strike of bedding (NWRA, 1986). This may be because the dominant fracture set, which is generally sub-parallel to the bedding strike, is controlling ground water flow.

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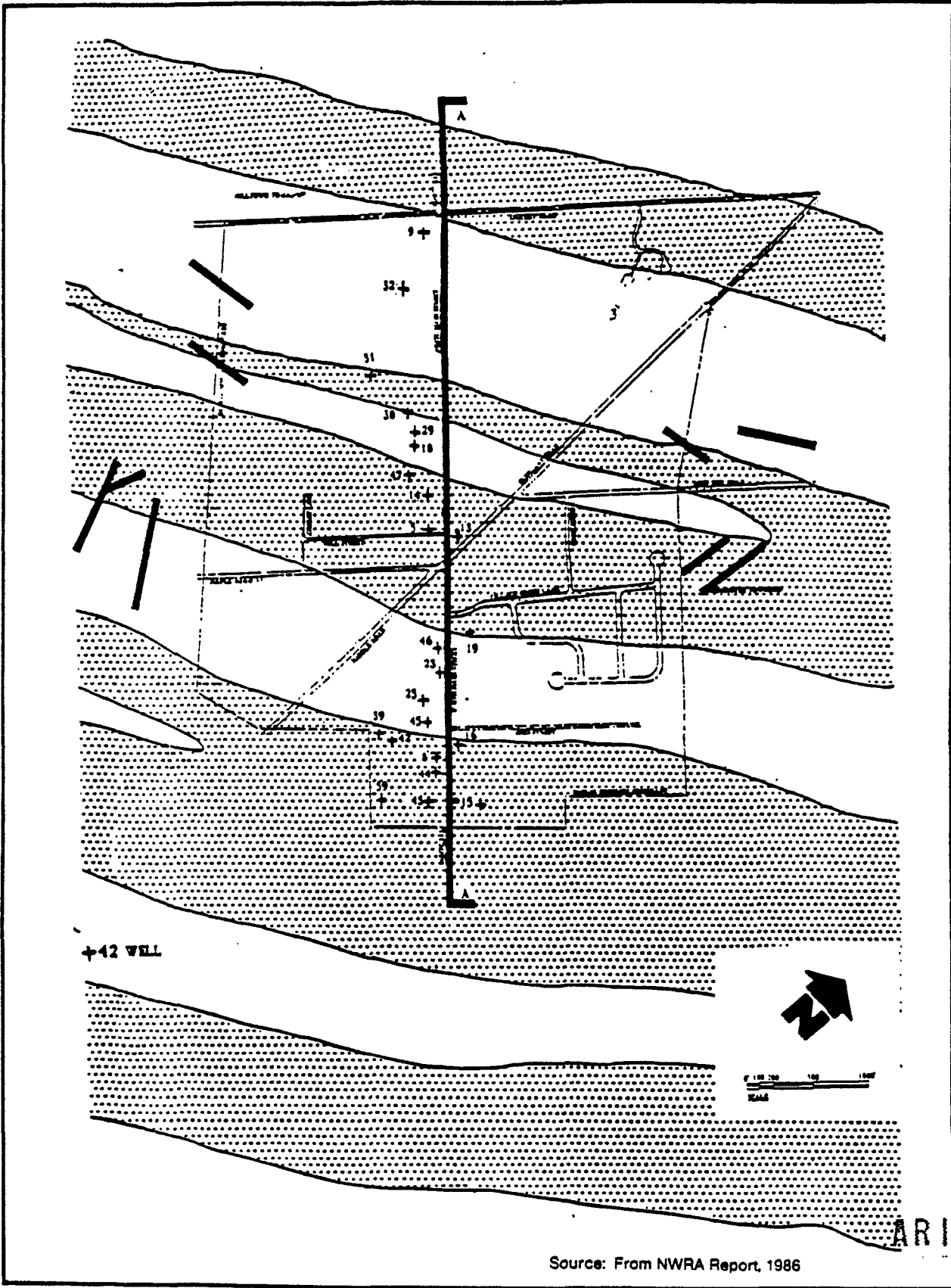
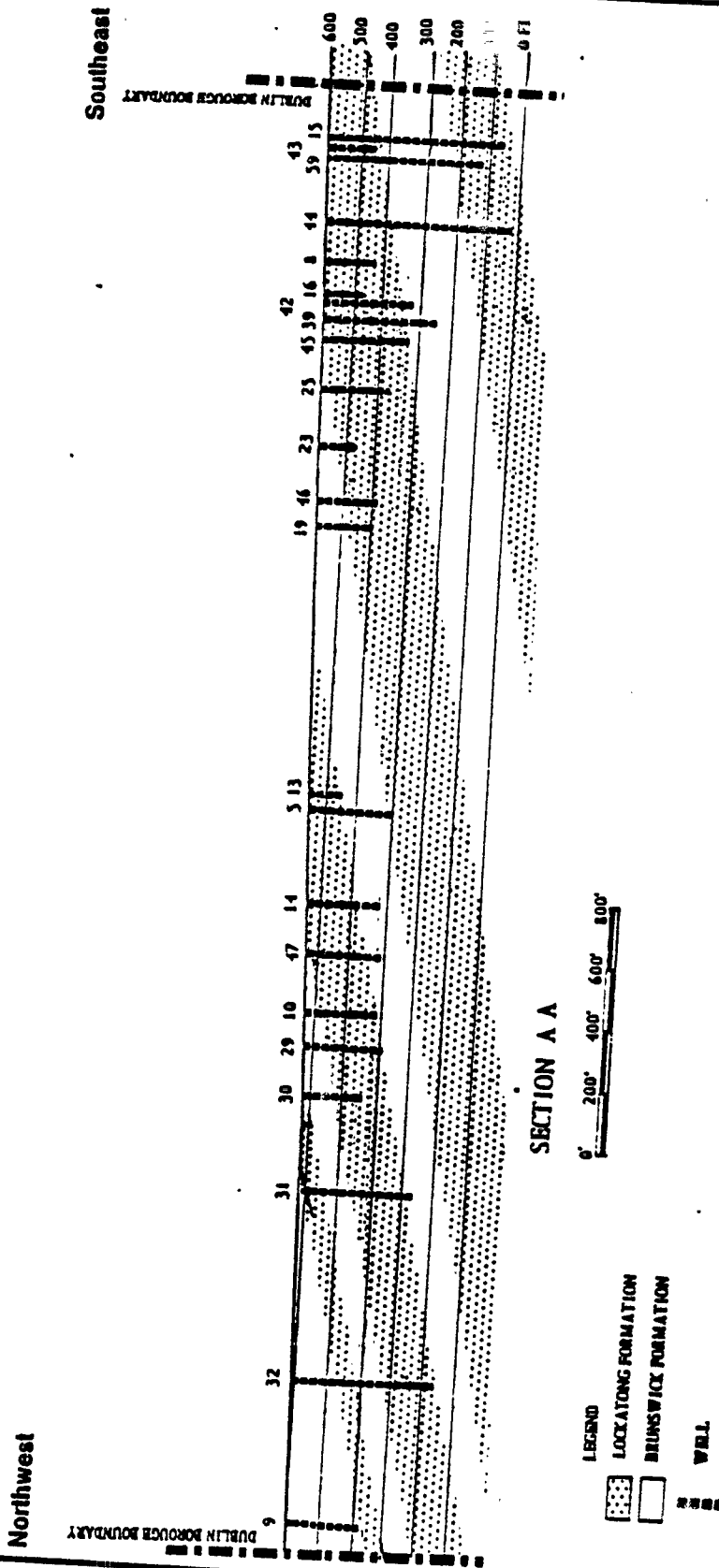


FIGURE 1 GEOLOGIC MAP OF THE DUBLIN AREA,  
BUCKS COUNTY, PA

Source: From NWRA Report, 1986



Source: From NWRA Report, 1986

**FIGURE 2 GEOLOGIC CROSS-SECTION ALONG MAIN STREET  
DUBLIN BOROUGH, BUCKS COUNTY, PA**

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Permeabilities and transmissivities of the Brunswick Formation are generally much higher than those of the Lockatong Formation. This is due to lithologic differences and differences in fracture intensity between the two formations. Both of these formations are capable of yielding sufficient water to a domestic well and are used for domestic water supplies in the Dublin area. The higher yielding municipal production wells are in most cases producing from the Brunswick Formation (NWRA, 1986).

Ground water flow in Dublin Borough is to the northwest (Figure 3). This is consistent with the regional flow direction in this area but flow may be locally affected by high yield pumping wells (Rooney, 1986). Seasonal variations in the water table have not significantly affected ground water flow direction (Rooney, 1986).

#### CONTAMINANT MOVEMENT

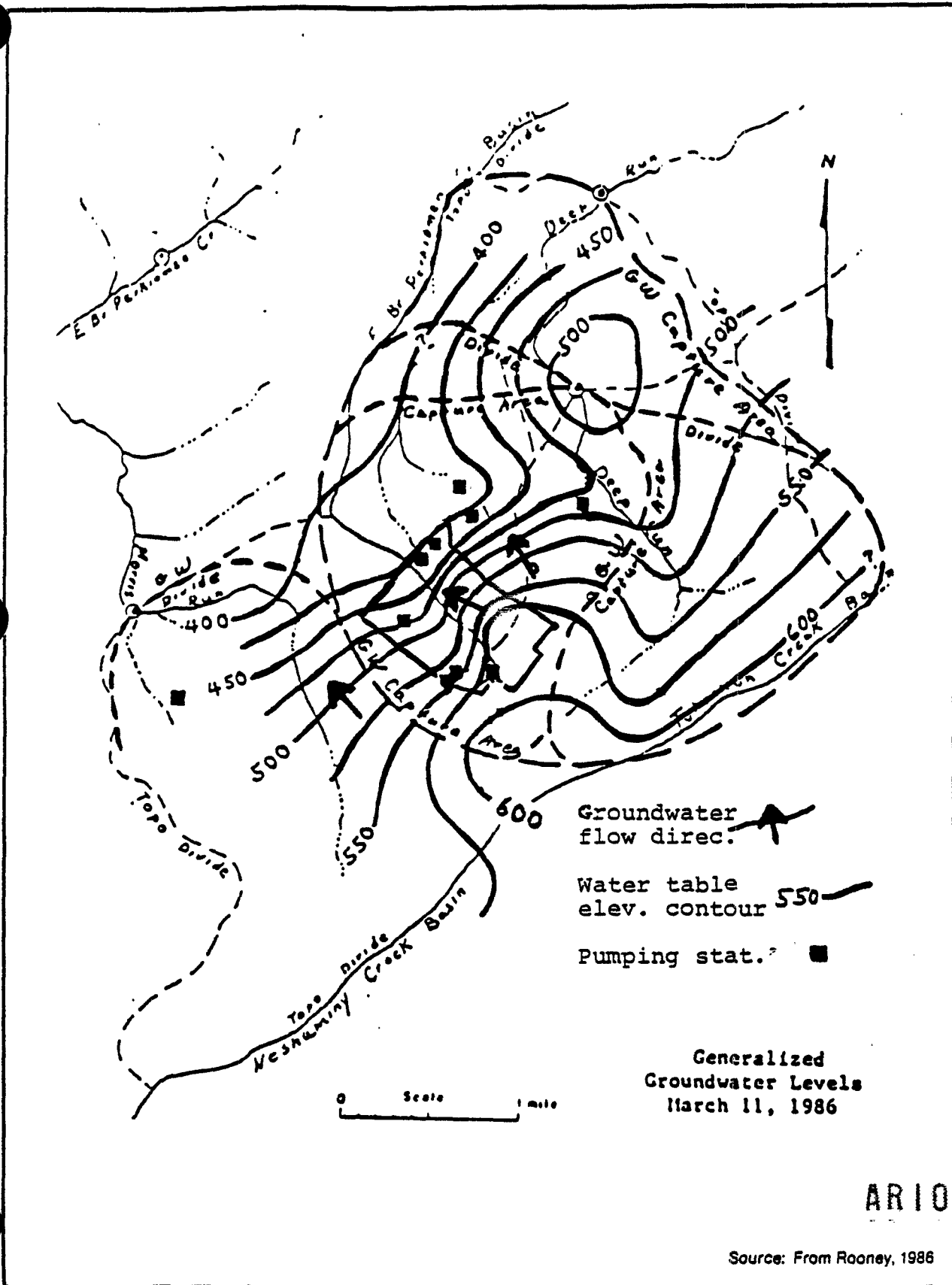
The movement or flow of ground water, and contaminants dissolved in it, through the bedrock beneath Dublin is controlled by fracture and joint systems, and dipping bedding planes in the rock (Neshaminy Water Resources Authority, 1986). The result is that flow may vary from point to point in such a heterogeneous and anisotropic system. Nonetheless, reasonable estimates of ground water contaminant transport direction and velocity can be made from known hydrogeologic conditions and the basic principles of ground water movement.

The distance that the contaminants have traveled from their source can be determined based on their distribution in the ground water and on estimates of the ground water velocity.

Dissolved contaminants spread or disperse as they move with the ground water. This dispersion results from molecular diffusion and mechanical mixing. Dispersion during transport results in the spreading and dilution of the contaminant plume so that the contaminant concentrations diminish from their maximum with increasing distance from the source.

Figure 4 shows the distribution of TCE in the ground water beneath Dublin at the end of 1986. The highest TCE concentrations are associated with the 120 Mill Street property. The concentrations decrease towards the northwest in the direction of ground water flow. At the end of 1986 the contaminant plume is approximately 2,600 feet long and 1,600 feet wide.

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Generalized  
Groundwater Levels  
March 11, 1986

AR100748

Source: From Rooney, 1986

FIGURE 3 GROUNDWATER FLOW MAP,  
DUBLIN BOROUGH, BUCKS COUNTY, PA

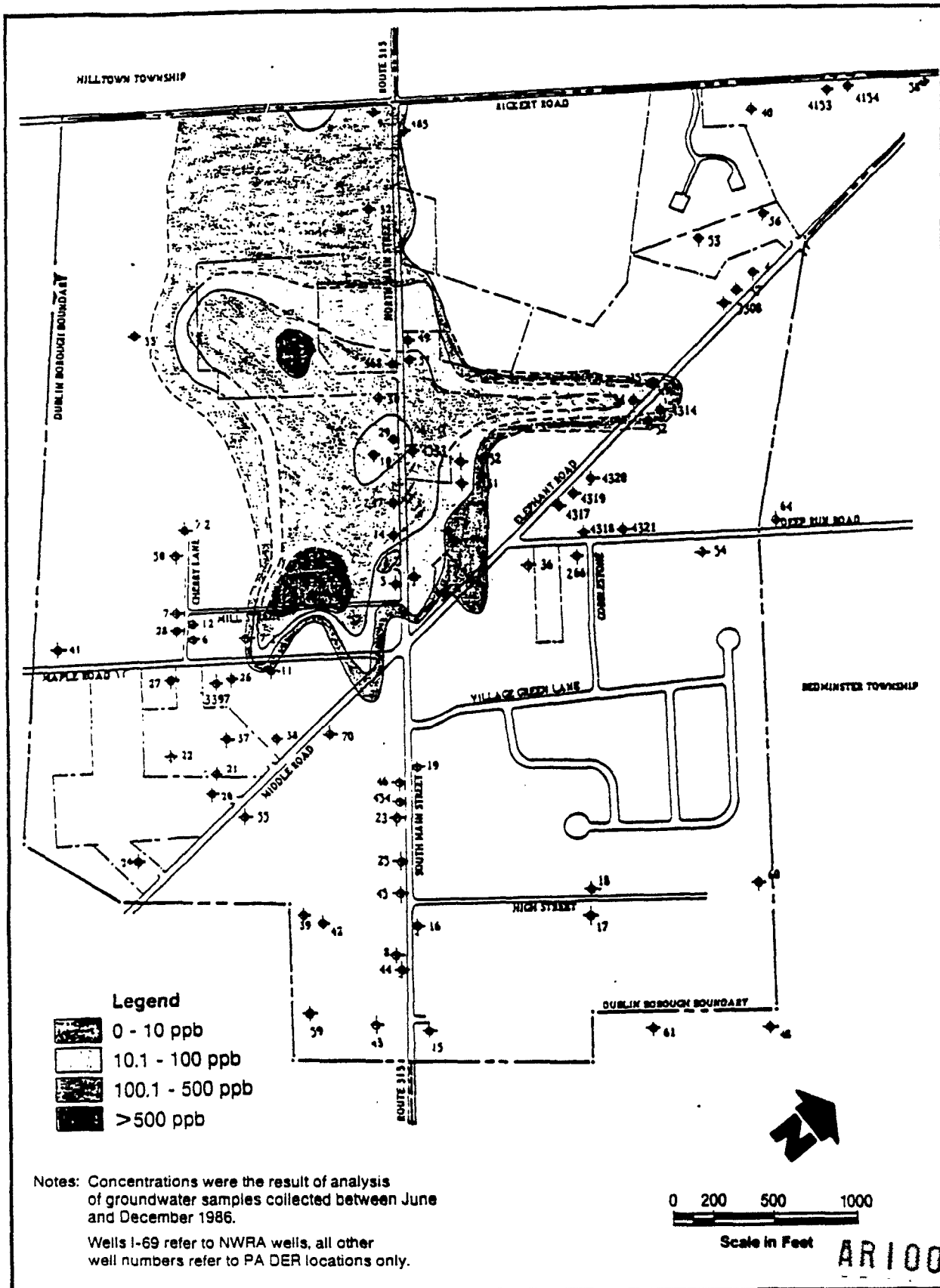


FIGURE 4 TRICHLOROETHYLENE (TCE) ISOCONCENTRATION CONTOUR MAP, DUBLIN BOROUGH, BUCKS COUNTY, PA

The ground water velocity can be estimated based on the known aquifer characteristics. During a water resources study for Dublin Borough conducted by International Exploration Inc. (INTEX, 1984) pumping tests were conducted in the Borough on the Dublin Borough No. 1 well, the Lamelza well and the Rosenelli well. These tests provided calculated transmissivities (T) for the bedrock aquifer of 3,000, 1,500, and 6,000 gallons per day per foot (gpd/ft) respectively. The INTEX study also indicated a ground water flow gradient of 0.046 towards the northwest. A later study (Rooney, 1986) indicated a similar flow direction and a comparable gradient (0.054). Using these values, the calculated transmissivities, and assuming an effective aquifer thickness of 500 feet, an estimate of the ground water flow velocity can be made.

Ground water velocity is defined by the equation:

$$V = \frac{Ki}{n}$$

where: V = velocity in ft/day  
 K = hydraulic conductivity in ft/day  
 i = gradient (dimensionless)  
 n = porosity as a percentage

To determine K, the transmissivity (T) is divided by the aquifer thickness (b). In this case the T calculated from the Dublin Borough No. 1 well (3,000 gpd/ft) was considered appropriate since this well is closest to the affected area.

$$K = \frac{T}{b}$$

$$K = 3,000 \text{ gpd/ft} \div \frac{7.48 \text{ ft. cu.}}{\text{gal.}} \div 500 \text{ ft.}$$

$$K = 0.8 \text{ ft/day}$$

The porosity (n) was selected based on references in the literature (Leachate Plume Management, EPA/540/2-85/004, Nov. 1985) and ranges from 1% to 10% for shales.

Substituting the values for K, i, and n in the velocity equation, a range of ground water velocities was derived. At n = 1% and i of 0.046 the ground water velocity is 3.7 ft/day or 1,351 ft/yr.

AR100750

At  $n = 1\%$  and  $i = 0.054$ , the ground water velocity is 4.3 ft/day or 1,578 ft/yr. These values are not considered to be realistic given the hydrogeologic characteristics and the known contaminant distribution.

At  $n = 10\%$  and  $i = 0.046$  the ground water velocity is 0.37 ft/day or 134 ft/yr.

At  $n = 10\%$  and  $i = 0.054$  the ground water velocity is 0.47 ft/day or 158 ft/yr.

At these rates, it would take 16 to 19 years for the plume to develop to the extent indicated by Figure 3.

Another method to estimate the maximum plume extent (Leachate Plume Management, EPA/540/2-85/004, Nov. 1985) is the equation,

$$D_p = t \left( \frac{T/b}{n} \right) i$$

where:  $D_p$  = longitudinal extent in ft.

$t$  = time in years

$T$  = transmissivity

$b$  = aquifer thickness

$i$  = gradient

$n$  = porosity

let:

$t = 20$  yrs.

$T = 3,000$  gpd/ft

$b = 500$  ft.

$i = 0.046$

$n = 10\%$

Substituting the values in the equation above yields a  $D_p$  of 2694 ft. which is in reasonable agreement with the concentration distribution for TCE.

The Kollsman Motor Corp. acquired the 120 Mill Street property 9 April 1959. Based upon information collected by TechLaw (TechLaw, 1987) and the deposition of Richard Baumbauch, a Kollsman employee, Kollsman's operating practices allowed contaminants to enter the environment as early as 1961. Given the known extent of the contaminant plume downgradient (2,600 feet), and the length of time (approximately 25 years) an estimate of the rate of contaminant transport is 104 ft/yr. This estimate is in reasonable agreement with the ground water velocity derived from the hydrogeologic information described above.

AR100751



The velocity estimates, plume size, and contaminant distribution indicate that TCE has been moving through the aquifer for 16 to 25 years based on the TCE concentrations detected in 1986. This indicates that the area around the Whistlewood well (approximately 1,350 feet from 120 Mill Street) has been contaminated for 13 to 15 years. That is, contamination could have been detected in the area of the Whistlewood well in concentrations of 5 ppb or greater between 1969 and 1973. Other wells in Dublin closer to 120 Mill Street would have been contaminated earlier.

Given the rate of ground water movement, and the distribution of TCE in the ground water, it is apparent that the concentrations of TCE in the Whistlewood and other Dublin wells will increase with time as the contaminants continue to disperse and spread away from the source. Without some type of prompt remedial action to cleanup the problem additional wells will become contaminated as the contaminant plume grows and moves downgradient.

Conceptually, remediation measures would consist of:

1. Source Removal - removal and disposal of waste materials and contaminated soil that are contributing contaminants to the ground water.
2. Recovery and treatment of contaminated ground water near the contaminant source in order to reduce the spread of contamination.
3. Treatment or replacement of individual water supplies in order to provide the users with contaminant free water.

#### CONTAMINANT RELEASE

Based on information provided in the TechLaw report (TechLaw, 1987) and in depositions provided by Mr. Richard Gable and Mr. Richard Baumbach, it is apparent that TCE, 1,1,1 TRI and PCE escaped from the property, and entered the environment, through careless industrial practices.

TCE, 1,1,1 TRI and PCE were in use as solvents at the 120 Mill Street property as early as mid-1959 when Kollsman Motor Corp. commenced operations. During the period 1959 to 1971 when Kollsman occupied the site:

- o Solvents were used in a degreasing machine.

AR100752

- o Solvents, in small quantities (less than 1 pint) were dumped on the macadam behind the building near a storm sewer inlet.
- o Waste solvent was kept in 55 gallon drums behind the main building.
- o TCE and other solvents may have entered the on-site septic system, which was in use until approximately 1966.

Mr. Baumbach, in his deposition, stated that waste solvents, along with metal chips and cuttings, was placed in drums both inside Building 1 and on the macadam outside the main building. These drums were perforated near their bottoms to let excess liquid drain away.

Mr. Noll's inspection of the property noted floor drains in building No. 1 and 3 and the boiler room. These floor drains lead to the storm sewer which drains to a swale that channels surface runoff towards the northwest in the direction of Whistlewood. This swale would also channel any contaminants dumped in the storm sewer or carried by runoff from the back lot toward Whistlewood.

Mr. Wilmer Moyers, a neighbor of the site, (TechLaw, 1987) states that on two occasions in the early 1960's he observed men carrying 5-gallon pails from the plant, at night, and dumping the liquid contents, described as "oily looking," on the ground. Mr. Moyers stated that liquid killed the grass where dumped.

These are clearly careless industrial practices, even in the late 1950's to early 1960's when environmental awareness was in its infancy. Although Material Safety Data Sheets (MSDS) for TCE dating from 1947 indicate that small amounts of residue may be disposed on dry sand or ashes, 5-gallon pails and perforated chip drums do not constitute small amounts. Additionally, dumping waste TCE on macadam near a storm sewer inlet was not an approved practice even in 1959. The early MSDS recognized the human health hazards due to inhalation and/or ingestion of TCE.

As early as 1956 MSDS for TCE stated that disposal should conform to Federal, State, and Local regulations. As early as 1964 MSDS for TCE explicitly state that TCE should not be disposed of in sewer systems or near water supplies.

AR100753

The Dudley Sports Division of Athlone Industries, Inc., operated at 120 Mill Street from September 1973 to January 1986. Athlone used cleaners, solvents and inks in their operation. Athlone used one or more drums of Safety Solvent #2. A partially filled drum of this material was left on the 120 Mill Street property when Athlone sold the premises to Thompson. Notes taken by Peter Noll of the BCHD during a discussion with Athlone employee, Richard Gable, on 23 June 1986 indicate that Mr. Gable initially stated that waste Safety Solvent #2 was put on the parking lot or in the sewer, but later changed his mind and said that most the waste was put in drums and hauled away.

Mr. Noll's notes indicate that the drum of Safety Solvent #2 left on the premises contains 10% TCA. (This drum is labeled Safety Solvent No. 2 Electrical Degreaser). The PA DER lab report on the sample of Safety Solvent #2 indicates 1,1,1-Trichloroethane as the largest single component with TCE also detected (estimated to be 1/10 of the concentration of 1,1,1-Tri.). Perchloroethylene (PCE) was also found in the Safety Solvent. All three of these hazardous substances were found in the Whistlewood well. Mr. Gabel also stated in his deposition that waste Safety Solvent #2 was probably placed in waste drums stored behind the quonsett hut on 120 Mill Street on bare ground. Gabel testified that these drums leaked and overflowed periodically. Drums of hazardous wastes were left on the 120 Mill Street property by Athlone. No Federal or state hazardous waste permit was obtained by Athlone for storage of these drums.

Assuming that Athlone employees dumped waste Safety Solvent #2 on the parking lot and in open and leaking waste drums, these actions constitute careless industrial practices. Storage of drums of hazardous waste without a permit violates the Resource Conservations and Recovery Act.

Mr. John H. Thompson deviated from current commercial real estate purchasing practices in that he purchased the 120 Mill Street property with hazardous waste still stored on it in plain view (approximately 30 drums), without first having conducted an environmental survey. A standard environmental survey in 1986 consisted of the following:

1. Site reconnaissance
2. Records search
3. Personnel interviews
4. Historical aerial photographs/site plans review
5. Audit of hazardous materials/waste

AR100754

6. Media sampling (i.e., soils, waters, air) as necessary
7. Report of existing conditions/liabilities

This survey would have revealed the presence of hazardous wastes in drums on the property and the contamination in the on-site wells. Such a survey would have provided Mr. Thompson with an understanding of the environmental liabilities of the site.

Environmental site surveys were routine in industrial property transfers in 1986 and, in fact, are required by law in New Jersey. Thompson or Athlone were required to obtain a RCRA hazardous waste storage permit. Because drums of hazardous wastes have been stored on-site well over 90 days the site is in violation of RCRA.

#### SITE VISIT - 21 JANUARY 1988

On 21 January 1988 two representatives from WESTON were allowed access to the 120 Mill Street property for the following reasons:

- o The collection of samples from old waste drums presently stored in a metal shed behind the number two (packaging) building (Figure 5).
- o The collection of soil samples from suspect areas on the property.
- o The collection of a sample of Safety Solvent #2 from a partially full labeled drum left in building number one by Athlone.
- o To conduct a dye test in a sink in the R&D room at the northeast corner of building one (Figure 5) to determine whether this sink drains to the storm sewer system (Figure 6).

Standard EPA protocols were followed during all sampling including the use of dedicated sampling equipment and the replacement of outer gloves between samples. A trip blank and duplicate sample were collected and analyzed as part of the quality assurance for the sampling effort.

Three samples were collected from containers stored in the quonset hut behind the building number two (Figure 5). Sampling of waste drums was performed in Level B protection. The waste drum samples were collected from two five gallon

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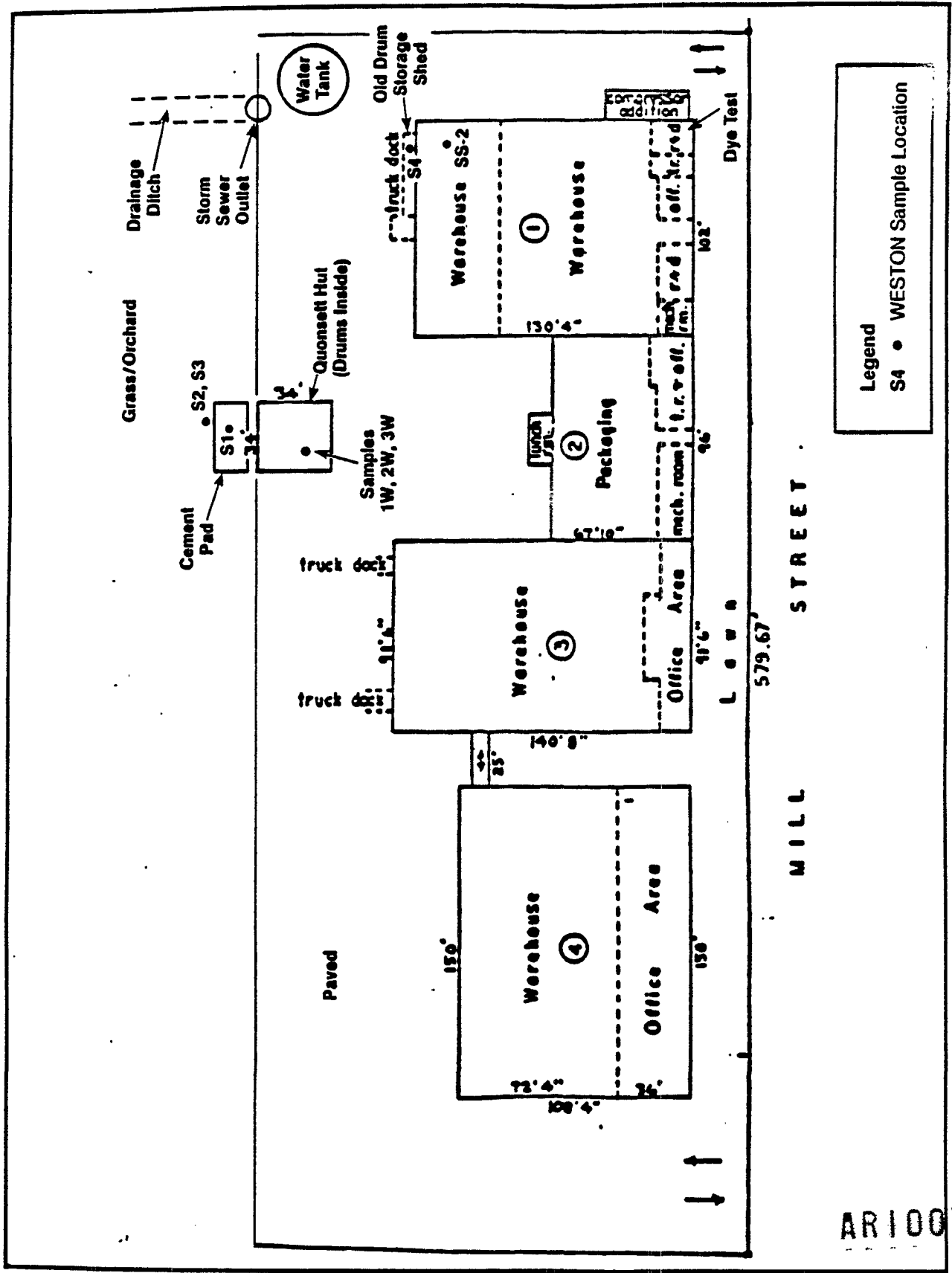


FIGURE 5 LAYOUT OF BUILDINGS AT THE 120 MILL STREET PROPERTY, DUBLIN BOROUGH, BUCKS COUNTY, PA

AR100756

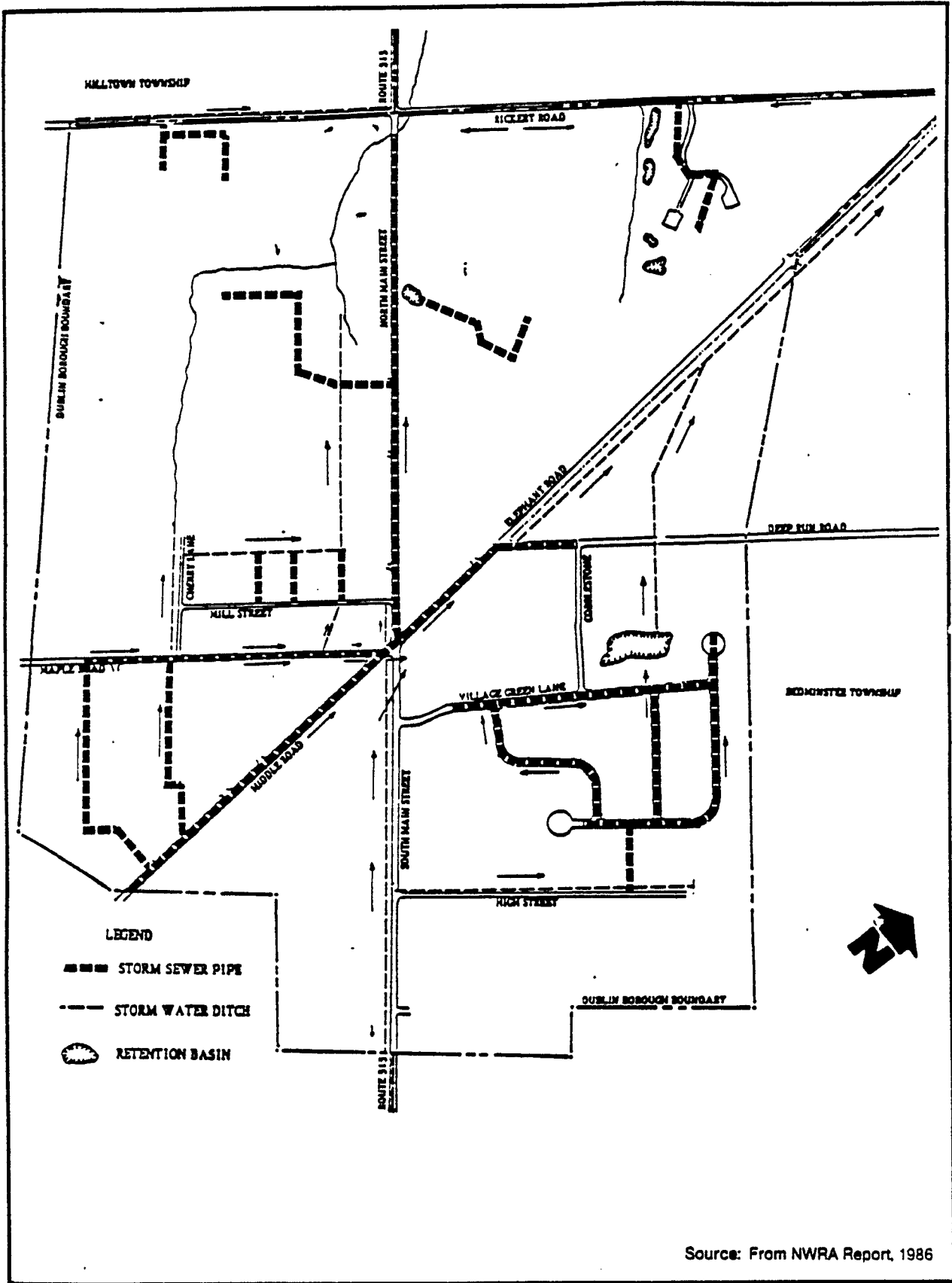


FIGURE 6 STORM SEWER SYSTEM,  
DUBLIN BOROUGH, BUCKS COUNTY, PA

containers (samples 1W and 2W) and from a fifty-five gallon drum (sample 3W) using glass coliwesas. Descriptions of the samples and the container labels are as follows:

- o 1W (5 gal.) - Dudley Sporting Goods  
120 Mill Street  
95 D Cleaning Solvent  
Explosive Vapors
  
- o 2W (5 gal.) - Amazon Ready to Use  
Solvent Degreaser  
Waste Only  
State Products  
535 W. Germ. Pike  
Norristown, PA
  
- o 3W (55 gal.) - Blue Drum - Bung Off  
West Chem Prod  
4240 West St.  
LI City, NY

A total of four soil samples were collected. Sample S1 was collected from the bottom of a pile of brown silty soil near the center of a cement pad behind the quonsett hut (Figure 5). Sample S2 was collected from light grey silty sludge-like material approximately two feet north of the edge of the cement pad behind the quonsett hut. This silty material appeared to be recently deposited on the soil surface and sharply contrasted the other soils in the area in both color and texture.

Sample S3 was collected approximately twelve inches below sample S2 from a brown saturated rocky soil which appeared to be fill. The last soil sample collected, sample S4, was taken from inside the old drum shed attached to Building One where drums with holes near the bottom were used to store metal shavings from the machine shop of Kollsman Motor Co. The material sampled in this area appeared to be the granular absorbent material commonly used to clean up spills of oil and other types of liquids.

Dedicated disposable plastic scoops were used to collect soil samples. The soil above sample S3 was removed with a steel shovel and a scoop was used to remove a one-inch layer of soil before collecting the sample. This procedure was used to preclude the possibility of contamination of the sample by the shovel.

AR100758

The sample of Safety Solvent #2 (sample SS2) was collected using a glass Coliwasa. A duplicate was collected of this sample and labeled SS2-D.

In order to determine if the sink in the R&D room of building number one drains to the storm sewer Rodimine Red dye was introduced into the sink and flushed with ten to fifteen gallons of water. A sentry, posted at the nearest storm sewer outlet, watched continually for twenty minutes for any sign of the red dye. No dye was observed in the storm sewer so it was concluded that the sink drains to the sanitary sewer.

#### DISCUSSION OF RESULTS

Laboratory analyses data of samples collected on the 120 Mill Street property are summarized in Table 1. The containers of waste solvents left by Athlone (Samples 1W and 2W) were found to contain significant concentrations of 1,1,1 TRI, TCE and PCE (Table 1). Samples of Safety Solvent #2 (Samples SS-2 and SS-2D) also contained 1,1,1 TRI, TCE and PCE. The major constituent of SS-2 was found to be 1,1,1 TRI (Table 1). These liquid samples also contain lesser amounts of other compounds (Table 1).

Soil samples were found to contain trace amounts of 1,1,1 TRI, TCE, xylene, toluene and unidentified hydrocarbon compounds. (See Appendix II for laboratory reports of analytical results.) These soil tests indicate that these materials had been spilled, dumped or otherwise released onto the ground surface. These findings are consistent with the testimony of Richard Gabel and Richard Baumbach concerning the industrial practices of Kollsman and Athlone.

Drums of Athlone waste in the quonset hut tested by WESTON contain waste solvents, which are hazardous waste. Athlone's drum of Safety Solvent #2 contains approximately 15 gallons of a solvent high in 1,1,1-TRI. This also comprises a hazardous waste.

The facts found by WESTON and others lead to the conclusion that the waste disposal practices of Kollsman and Athlone caused and/or contributed to the contamination of the Whistlewood well and other wells in Dublin, Pennsylvania.

AR100759



TABLE 1

ANALYTICAL RESULTS FROM SAMPLES  
COLLECTED DURING SITE VISIT ON  
21 JANUARY 1988

Sample #	Matrix	Results (ug/ml)
1W	Drum Liquid	1,1,1 Trichloroethane (1,1,1 Tri) (30,000); Trichloroethylene (TCE) (740); Tetrachloroethene (PCE) (4,700); Acetone, Dichloroethenes, MIBK (methylisobutylketone), toluene and xylenes were detected in these samples at ppm levels.
2W	Drum Liquid	1,1,1 Trichloroethane (1,1,1 Tri) (7,200); Tetrachloroethene (PCE) (130); Acetone, dichloroethenes, MIBK (methylisobutylketone), toluene and xylenes were detected in these samples at ppm levels.
SS-2 (Safety Solvent No.2)	Drum Liquid	1,1,1 Trichloroethane (1,1,1 Tri) (1,000,000); Trichloroethylene (TCE) (2,400); Tetrachloroethene (PCE) (15,000); Acetone, dichloroethenes, MIBK (methylisobutylketone), toluene, ethylbenzene and xylenes were detected in these samples at ppm levels.
S1	Soil	No compounds identified
S2	Soil	Unknown Hydrocarbon, 1,1,1-Tri (1 ug/kg); Toluene (4 ug/kg); Xylene (3 ug/kg)
S3	Soil	Trichloroethylene (TCE) (13 ug/kg)
S4	Soil	C <sub>3</sub> Hydrocarbon (23 ug/kg); unknown hydrocarbon (40 ug/kg); Trichlorofluoromethane (12 ug/kg); 1,1,1 Tri (54 ug/kg); Toluene (12 ug/kg); Xylene (8 ug/kg)

40Rup007:60

## REFERENCES

Neshaminy Water Resources Authority, 1986, Water Resources Management, Dublin Borough, Bucks County, Pennsylvania, Jamison, PA, Dec. 1986.

Rooney, 1986. Development of Water Supplies from Triassic Rocks in Dublin Borough and Adjacent Areas, Bucks County, PA. James G. Rooney for Bedminster, Dublin, Hilltown Joint Water Study Commission, Bucks County, PA.

Socolow, Arthur A. 1962, Physiographic Provinces of Pennsylvania, Commonwealth of PA., Dept. of Environ. Res., Map #13, Topographic and Geologic Survey.

TechLaw Report, 1987, Final Report, Dublin Water Supply Site, Potentially Responsible Party Search; U.S. Environmental Protection Agency, Office of Waste Programs Enforcement, Washington D.C.

AR100761

APPENDIX I  
KEY PERSONNEL

AR100762

ORIGINAL  
(Red)



## Joseph S. Tomalavage, P.G.

### Registration

Registered Professional Geologist in the States of Indiana and Georgia.

### Fields of Competence

Geologic, geophysical, and photogeologic investigations and well site location to develop groundwater resources for industrial, municipal, planned residential and domestic purposes; waste disposal site suitability evaluation, testing, and analysis of well fields and aquifers; groundwater pollution detection and abatement; soil erosion and sediment control.

### Experience Summary

Eight years experience in geological studies, including hydrogeologic evaluations of groundwater availability on a regional and site specific basis; hydrogeologic site suitability evaluations for liquid waste disposal by spray irrigation, and solid waste disposal. Evaluation of the groundwater contamination potential from industrial landfills; and the design of monitor well networks for landfills, ash basins, and waste storage sites. Collection and analysis of well pumping test data and well field evaluation. Geologic and geophysical investigations to locate and develop groundwater resources. Sediment and groundwater sampling to characterize hazardous wastes disposal sites and determine the extent of hazardous wastes in the groundwater flow system. Development of remedial action programs to recover contaminated groundwater.

### Credentials

B.S., Geology—Pennsylvania State University (1972)

### Affiliations

National Water Well Association, Technical Division  
American Geophysical Union, Hydrology Division  
American Association for the Advancement of Science

### Employment History

1973-Present	WESTON
1972-1973	Pennsylvania State University Geology Section, Department of Geologic Sciences

### Key Projects

Identification of buried toxic waste containers at a land-fill using ground-penetrating radar.

Sampling of monitor wells for PCB contamination at a New Jersey waste oil disposal site.

Development and implementation of a subsurface recovery system to recover gasoline and oil (floating groundwater) that had leaked from storage tanks at a refinery.

Implementation of a subsurface sediment sampling program at Savanna Army Depot, Savanna, Illinois, to determine extent of TNT and similar explosive wastes in the sediments.

Development and implementation of a program to determine the extent and consequences of subsurface migration of leachate from several landfills in southern Delaware.

Hydrogeologic investigations to define groundwater contamination of a sand and gravel aquifer by gasoline leakage from storage tank in New York State.

Data collection, analysis and evaluation to determine distribution of leachate and extent of contamination in a heavily-used aquifer in Delaware.

Evaluation of groundwater availability in a Chester County, Pennsylvania Township.

Hydrogeologic investigations to develop 350,000-gpd water supply from metamorphic rocks for a planned residential development in Chester County, Pennsylvania.

Hydrogeologic suitability evaluation of a spray irrigation site for a food processing industry.

Investigation of groundwater contamination potential from an industrial landfill.

ART00763

# Professional Profile

ORIGINAL  
(Red)

Hydrogeologic suitability evaluation and development of monitor-well program for land disposal of tannery process wastewater.

Community coordinator responsible for data collection, processing and report preparation for HUD flood insurance study in Paulding County, Georgia.

Principal investigator for study to abate water well contamination by road salt.

Responsible for implementation of groundwater monitoring program for the City of Knoxville, Tennessee, sewer system evaluation survey.

Principal investigator for landfill impact investigation, Rhode Island 208 Study.

Evaluation of hydrogeologic and soils impact of synthetic fuels production, plant construction and operation in several states for Oak Ridge National Laboratory.

Survey of Tooele and Letterkenny Army Depots to determine the quantity of explosives-contaminated packing and packing waste material for eventual disposal.

Collection and interpretation of available geologic and hydrogeologic information covering Ohio, West

Virginia, and western Pennsylvania to identify areas that meet RCRA requirements for a secure hazardous waste disposal facility.

Development of clean drilling techniques for installation of monitor wells at a closed uranium handling facility.

Development and implementation of RCRA monitor well and groundwater sampling programs for an oil refinery.

Development of RCRA monitor well programs at several fly ash disposal basins for a Pennsylvania utility company.

#### Publications

Tomalavage, J.S., 1978, "Contamination of Water Supply Wells by Road Deicing Salts: Two Case Histories." Presented at the Annual Fall Meeting of the American Geophysical Union, San Francisco, California, December 1978.

Duffy, W.J., Tomalavage, J.S. and Moose, R., 1980, "Contamination of Groundwater Supplies by Trichloroethylene—Three Case Histories."

AR100764

ORIGINAL  
(red)



## Thomas R. Marks

### Fields of Competence

Hydrologic and geologic evaluation of waste disposal sites; evaluation of geotechnical properties of rock; rock mass evaluation; description, analysis and characterization of natural fracture systems and their effect on subsurface flow; interpretation of depositional environments; optical and X-ray (including computer tomography) analysis of geologic materials.

### Experience Summary

Piezometric surface mapping; soil and groundwater sampling; emergency response and cleanup of hazardous materials; rock mass evaluation at an underground coal gasification site; geologic analysis of naturally fractured reservoirs; operation of geophysical well-logging equipment and interpretation of borehole geophysical data; training and management of earth scientists; project management.

### Credentials

B.S., Geology—Indiana University of Pennsylvania (1979)

M.S., Geology—Colorado State University (1986)

National Water Well Association

American Association of Petroleum Geologists

### Employment History

1986-Present	WESTON
1983-1986	Terra Tek, Inc.
1983	AMO Pollution Services
1979-1981	Nuclear Logging Services, Inc.

### Key Projects

Fracture analysis of the Monterey Formation, offshore California, for ARCO Oil and Gas.

Fracture analysis of the Lisburne Formation, North Slope, Alaska, for ARCO Alaska, Inc.

Fracture analysis of the Nugget Sandstone, Anschutz Ranch, Wyoming.

Geologic and geotechnical evaluation of the U.S. Department of Energy underground coal gasification site in Rawlins, Wyoming.

AR100765

# Professional Profile

ORIGINAL  
(Red)

APPENDIX II  
LABORATORY ANALYSIS RESULTS

AR100766

**WESTON**

ORIGINAL  
filed:

LIQUID SAMPLE ANALYSES

AR100767



ORIGINAL  
(Red)**WESTON**

ROY F. WESTON, INC.  
WHISTLEWOOD APTS.  
RFW #: 8801-292/293, TCA, TCE AND PCE ONLY  
W.O.#: 2943-02-01

**CASE NARRATIVE**

1. The following qualifiers are used on the data summary:

U - Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or where the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

BS - Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD - Indicates blank spike duplicate.

MS - Indicates matrix spike.

MSD - Indicates matrix spike duplicate.

DL - Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA - Not applicable.

DF - Dilution factor.

NR - Not required.

2. Samples Collected: 01-21-88  
Extraction Date: NA  
Analysis Date: 02-11-88

3. Samples were analyzed by the USEPA Method 8240. A 1:2000 dilution in water was made for all samples. A secondary 1:50 dilution was done for all samples prior to analyses. For sample SS-2, a 1:5000 dilution was also done to determine the concentration of 1,1,1-trichloroethane within the calibration range.

00768

ORIGINAL  
(Red)

# WESTEN

WHISTLEWOOD APTS.

-2-

8801-292/293

- 4. Acetone, dichloroethenes, MIBK (methylisobutylketone), toluene and xylenes were detected in these samples at ppm levels. Samples SS-2 and SS-2 DUP also contained ethylbenzene at ppm levels.

*Carter P. Nulton*  
 \_\_\_\_\_  
 Carter P. Nulton, Ph.D.  
 Manager

Lionville Analytical Laboratory

*2/12/88*  
 \_\_\_\_\_  
 DATE

AR100769

WESTON ANALYTICS  
 GC/MS DATA SUMMARY  
 VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8801-292/293      Client: WHISTLEWOOD APTS      Page: 1

Sample Information	Cust ID:	2W	SS-2	SS-2	SS-2	SS-2	1W
	BLANK 2/11						
RFW#:	VWBLK	292-001	292-002	292-002DIL	292-002DUP	293-001	
Matrix:	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	
D.F.:	1	100000	100000	10000000	100000	100000	
Units:	ug/L	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL	ug/mL
Surrogate	Toluene-d8:	96 ‡	126 ‡	115 ‡	122 ‡	112 ‡	
Recovery	Bromofluorobenzene:	102 ‡	110 ‡	103 ‡	110 ‡	108 ‡	
(‡)	1,2-Dichloroethane-d4:	72 ‡	84 ‡	78 ‡	79 ‡	78 ‡	
	1,1,1-Trichloroethane.....	5 U	>150000 *	1000000	>150000 *	30000	
	Trichloroethene.....	5 U	1700	2400 J	1600	740	
	Tetrachloroethene.....	5 U	5700	15000 J	4600	4700	

AR100770

Other: \* See dilution

U=Analyzed, not detected. B=Present in blank. NRP=Not Reported  
 J=Present at less than detection limit. NR=Not requested.

ORIGINAL  
(Red)

**WESTON**

ORIGINAL  
(Red)

SOIL SAMPLE ANALYSES

AR100771

ORIGINAL  
(Red)**WESTON**

ROY F. WESTON, INC.  
WHISTLEWOOD APTS.  
RFW # 8801-293, VOA's only  
W.O.# 2943-02-01

1. The following qualifiers are used on the data summary:

U - Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or where the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

BS - Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD - Indicates blank spike duplicate.

MS - Indicates matrix spike.

MSD - Indicates matrix spike duplicate.

DL - Indicates that surrogate recoveries were not obtained because the extract had to be diluted for analysis.

NA - Not applicable.

DF - Dilution factor.

NR - Not required.

NRP - Not reported.

2. Samples Collected: 01-21-88  
Extraction Date: NA  
Analysis Date: 01-25-88
3. Samples were analyzed by the USEPA Method 8240.
4. Several unknown hydrocarbons were detected in samples S2 and S4. No Tentatively Identified Compounds (TIC's) in others.

AR100772

Carter P. Nulton  
Carter P. Nulton, Ph.D.  
Manager  
Lionville Analytical Laboratories

2-1-88  
DATE

ORIGINAL  
(Red)

DATA SUMMARY FOR: WHISTLEWOOD

R.F.W. NO.: 8801-293-004

SAMPLE DESCRIPTION: S2

TENTATIVELY IDENTIFIED COMPOUNDS  
(VOA FRACTION)

<u>COMPOUND NAME</u>	<u>SCAN NUMBER</u>	<u>ESTIMATED CONCENTRATION (ug/kg)</u>
UNKNOWN HYDROCARBON	84	6

AR100773

ORIGINAL  
(Red)

DATA SUMMARY FOR: WHISTLEWOOD

R.F.W. NO.: 8801-293-006

SAMPLE DESCRIPTION: S4

TENTATIVELY IDENTIFIED COMPOUNDS  
(VOA FRACTION)

<u>COMPOUND NAME</u>	<u>SCAN NUMBER</u>	<u>ESTIMATED CONCENTRATION (ug/kg)</u>
C <sub>3</sub> HYDROCARBON	49	9
UNKNOWN HYDROCARBON	93	40
TRICHLOROFLUOROMETHANE	196	12
C <sub>3</sub> HYDROCARBON	42	14

AR100774

WESTON ANALYTICS  
GC/MS DATA SUMMARY  
VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8801-293

Client: WHISTLEWOOD

Page: 1

Sample Information	Cust ID:	BLANK	TRIP	BLK	S1	003 MS	S1	S2	S3
	RFW#:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Matrix:	1	1	1.4	1.4	1.4	1.1	1.1	1.2
	D.F.:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	Units:	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Surrogate	Toluene-d8:	100 \$	104 \$	106 \$	104 \$	104 \$	110 \$	110 \$	110 \$
Recovery	Bromofluorobenzene:	104 \$	84 \$	84 \$	82 \$	82 \$	78 \$	78 \$	78 \$
(%)	1,2-Dichloroethane-d4:	102 \$	88 \$	86 \$	94 \$	94 \$	104 \$	104 \$	98 \$
Chloromethane.....		10 U	10 U	14 U	14 U	14 U	2 J	12 U	12 U
Bromomethane.....		10 U	10 U	14 U	14 U	14 U	11 U	12 U	12 U
Vinyl Chloride.....		10 U	10 U	14 U	14 U	14 U	11 U	12 U	12 U
Chloroethane.....		10 U	10 U	14 U	14 U	14 U	11 U	12 U	12 U
Methylene Chloride.....		9	44	80	69	69	48	55	55
Acetone.....		20	26	50	45	45	100	42	42
Carbon Disulfide.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
1,1-Dichloroethene.....		5 U	5 U	7 U	114 \$	114 \$	6 U	6 U	6 U
1,1-Dichloroethane.....		5 U	5 U	7 U	7 U	7 U	3 J	6 U	6 U
Trans-1,2-Dichloroethene.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
Chloroform.....		5 U	5 U	7 U	7 U	7 U	6 U	2 J	2 J
1,2-Dichloroethane.....		5 U	5 U	7 U	7 U	7 U	6 U	3 J	3 J
2-Butanone.....		10 U	10 U	14 U	14 U	14 U	10 J	1 J	1 J
1,1,1-Trichloroethane.....		5 U	5 U	7 U	7 U	7 U	1 J	6 U	6 U
Carbon Tetrachloride.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
Vinyl Acetate.....		10 U	10 U	14 U	14 U	14 U	11 U	12 U	12 U
Bromodichloromethane.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
1,2-Dichloropropane.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
Trans-1,3-Dichloropropene.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
Trichloroethene.....		5 U	5 U	7 U	92 \$	92 \$	6 U	13	13
Dibromochloromethane.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
1,1,2-Trichloroethane.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
Benzene.....		5 U	5 U	7 U	94 \$	94 \$	6 U	6 U	6 U
cis-1,3-Dichloropropene.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
2-Chloroethylvinylether.....		10 U	10 U	14 U	14 U	14 U	11 U	12 U	12 U
Bromoform.....		5 U	5 U	7 U	7 U	7 U	6 U	6 U	6 U
4-Methyl-2-pentanone.....		10 U	10 U	14 U	14 U	14 U	11 U	12 U	12 U
2-Hexanone.....		10 U	10 U	14 U	14 U	14 U	11 U	12 U	12 U

ORIGINAL (Red)



ORIGINAL  
(Red)

RFW Batch Number: 8801-293 Client: WHISTLEWOOD

Page: 1

Cust ID:	BLANK	TRIP BLK	S1	S1	S1	S2	S3
RFW#:	BLANK	002	003	MS	004	005	
Tetrachloroethene.....	5 U	5 U	7 U	7 U	6 U	6 U	6 U
1,1,2,2-Tetrachloroethane.....	5 U	5 U	7 U	7 U	6 U	6 U	6 U
Toluene.....	5 U	5 U	7 U	104 J	4 J	6 U	6 U
Chlorobenzene.....	5 U	5 U	7 U	100 J	6 U	6 U	6 U
Ethylbenzene.....	5 U	5 U	7 U	7 U	6 U	6 U	6 U
Styrene.....	5 U	5 U	7 U	7 U	6 U	6 U	6 U
Total Xylenes.....	5 U	5 U	7 U	7 U	3 J	6 U	6 U

Other:

AR100776

U=Analyzed, not detected. B=Present in blank. NRP=Not Reported  
J=Present at less than detection limit. NR=Not requested.

WESTON ANALYTICS  
GC/MS DATA SUMMARY  
VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8801-293      Client: WHISTLEWOOD      Page: 2

Sample Information  
Cust ID: S4  
RFW#: 006  
Matrix: Soil  
D.F.: 1.5  
Units: ug/kg

Surrogate	Recovery (%)	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene
Chloromethane	15 U	15 U	15 U	15 U
Bromomethane	15 U	15 U	15 U	15 U
Vinyl Chloride	15 U	15 U	15 U	15 U
Chloroethane	15 U	15 U	15 U	15 U
Methylene Chloride	92	92	92	92
Acetone	42	42	42	42
Carbon Disulfide	8 U	8 U	8 U	8 U
1,1-Dichloroethene	8 U	8 U	8 U	8 U
1,1-Dichloroethane	8 U	8 U	8 U	8 U
Trans-1,2-Dichloroethene	8 U	8 U	8 U	8 U
Chloroform	8 U	8 U	8 U	8 U
1,2-Dichloroethane	8 U	8 U	8 U	8 U
2-Butanone	15 U	15 U	15 U	15 U
1,1,1-Trichloroethane	54	54	54	54
Carbon Tetrachloride	8 U	8 U	8 U	8 U
Vinyl Acetate	15 U	15 U	15 U	15 U
Bromodichloromethane	8 U	8 U	8 U	8 U
1,2-Dichloropropane	8 U	8 U	8 U	8 U
Trans-1,3-Dichloropropene	8 U	8 U	8 U	8 U
Trichloroethene	8 U	8 U	8 U	8 U
Dibromochloromethane	8 U	8 U	8 U	8 U
1,1,2-Trichloroethane	8 U	8 U	8 U	8 U
Benzene	8 U	8 U	8 U	8 U
cis-1,3-Dichloropropene	8 U	8 U	8 U	8 U
2-Chloroethylvinylether	15 U	15 U	15 U	15 U
Bromoform	8 U	8 U	8 U	8 U
4-Methyl-2-pentanone	15 U	15 U	15 U	15 U
2-Hexanone	15 U	15 U	15 U	15 U

ORIGINAL  
(Red)

777

ORIGINAL  
(Red)

RFW Batch Number: 8801-293

Client: WHISTLEWOOD

Page: 2

Cust ID: S4  
RWF#: 006

Tetrachloroethene.....	8 U	fl	fl	fl	fl	fl	fl	fl	fl
1,1,2,2-Tetrachloroethane.....	8 U								
Toluene.....	12								
Chlorobenzene.....	8 U								
Ethylbenzene.....	8 U								
Styrene.....	8 U								
Total Xylenes.....	8								

Other:

AR100778

U=Analyzed, not detected. B=Present in blank. MRP=Not Reported  
J=Present at less than detection limit. NR=Not requested.