

Kruskal-Wallace Test

Report Printed: 04-09-1997 12:57

Facility:OCT Oil City Tube

Address:

City:Oil City ST:PA Zip:16301
County:VENANGO

Contact:
Phone: () -

Permit Type:Background

Constituent:TCE Trichloroethene (-ethylene)

CAS Number: 79-01-6

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 5.000 ppb

Start Date:Mar 12 1996

End Date:Feb 19 1997

Data Mode:Log Transformed

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
mw-12	4	0	4.33	3.91	4.12	0.17
mw-13	4	0	5.48	4.26	4.75	0.56

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
recwell	5	0	5.01	4.70	4.80	0.13

Well ID	Date	Observation	Rank
mw-12	05/21/96	4.3307	5.0
mw-12	06/24/96	3.9120	1.0
mw-12	09/27/96	4.1271	3.0
mw-12	02/19/97	4.0943	2.0
mw-13	05/21/96	5.4806	13.0
mw-13	06/24/96	4.2627	4.0
mw-13	09/27/96	4.8675	11.0
mw-13	02/19/97	4.3694	6.0

	Background Rank Sum:	45.0
	Background Rank Avg:	5.6
recwell	03/12/96	4.7875 9.5
recwell	06/21/96	5.0106 12.0
recwell	09/27/96	4.7005 7.5
recwell	11/22/96	4.7005 7.5
recwell	02/19/97	4.7875 9.5

Compliance Well Rank Sum:	46.0
Compliance Well Rank Avg:	9.2

H Statistic:	2.5929
H Adjusted for Ties:	2.6072
Degrees of Freedom:	1
Chi-Squared:	3.8414
Z α /DF:	1.6449

* Indicates significant evidence of contamination

Well ID	Crit. Diff.	Rank Avg.	Background Rank Avg.	Difference
recwell	3.6317	9.20	5.63	3.57

APPENDIX C

VINYL CHLORIDE
EVALUATION

Data Set Summary

Report Printed: 04-09-1997 12:37

Facility:OCT Oil City Tube

Address:

City:Oil City ST:PA Zip:16301
County:VENANGO

Contact:
Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 10.000 ppb

Start Date:Mar 12 1996
End Date:Feb 19 1997

Well ID:mw-12

Sample Date	Observation	Ln
May 21 1996	110.000 ppb	4.700
Jun 24 1996	110.000 ppb	4.700
Sep 27 1996	5.000 ppb	1.609 (* Nondetect *)
Feb 19 1997	96.000 ppb	4.564

Well ID:mw-12 Summary Statistics

Observations (N): 4
Nondetects (%ND): 25

Minimum:	5.000 ppb	Ln Minimum:	1.609
Maximum:	110.000 ppb	Ln Maximum:	4.700
Mean:	80.250 ppb	Ln Mean:	3.894
Std. Dev.:	50.599 ppb	Ln Std. Dev.:	1.524

Well ID:mw-13

Sample Date	Observation	Ln
May 21 1996	140.000 ppb	4.942
Jun 24 1996	110.000 ppb	4.700

Sep 27 1996	79.000 ppb	4.369
Feb 19 1997	74.000 ppb	4.304

Well ID:mw-13 Summary Statistics

Observations (N): 4
 Nondetects (%ND): 0

Minimum:	74.000 ppb	Ln Minimum:	4.304
Maximum:	140.000 ppb	Ln Maximum:	4.942
Mean:	100.750 ppb	Ln Mean:	4.579
Std. Dev.:	30.631 ppb	Ln Std. Dev.:	0.298

Well ID:recwell

Sample Date	Observation	Ln
Mar 12 1996	10.000 ppb	2.303
Jun 21 1996	61.000 ppb	4.111
Sep 27 1996	110.000 ppb	4.700
Nov 22 1996	110.000 ppb	4.700
Feb 19 1997	74.000 ppb	4.304

Well ID:recwell Summary Statistics

Observations (N): 5
 Nondetects (%ND): 0

Minimum:	10.000 ppb	Ln Minimum:	2.303
Maximum:	110.000 ppb	Ln Maximum:	4.700
Mean:	73.000 ppb	Ln Mean:	4.024
Std. Dev.:	41.388 ppb	Ln Std. Dev.:	0.996

Normality Tests

Report Printed: 04-09-1997 12:38

Facility:OCT Oil City Tube

Address:

City:Oil City ST:PA Zip:16301
County:VENANGO

Contact:
Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 10.000 ppb

Start Date:Mar 12 1996
End Date:Feb 19 1997

Normality Test on Observations for wells listed below:

Well:mw-12 Position:Upgradient Observations:4

Scale	Minimum	Maximum	Mean	Std Dev
Original:	5.000	110.000	80.250	50.599
Log:	1.609	4.700	3.894	1.524

Well:mw-13 Position:Upgradient Observations:4

Scale	Minimum	Maximum	Mean	Std Dev
Original:	74.000	140.000	100.750	30.631
Log:	4.304	4.942	4.579	0.298

Well:recwell Position:Downgradient Observations:5

Scale	Minimum	Maximum	Mean	Std Dev
Original:	10.000	110.000	73.000	41.388
Log:	2.303	4.700	4.024	0.996

Pooled Statistics

Observations: 13

Statistic	Original	Log
	Scale	Scale
Mean:	83.769	4.155
Std Dev:	39.927	1.012
Skewness:	-0.864	-1.798*
Kurtosis:	-0.130	1.707
Minimum:	5.000	1.609
Maximum:	140.000	4.942
CV:	0.477	0.243

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
	Statistic	Value	Value
Original:	0.8724	0.8660	0.8140
Log:	0.6636*	0.8660	0.8140

* Indicates statistically significant evidence of non-normality.
 c150v*c10g2P
 GRIT/STAT Version 5.01

Probability Plot Statistics

Report Printed: 04-09-1997 12:38

Facility:OCT Oil City Tube

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County:VENANGO

Contact:

Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 10.000 ppb

Start Date:Mar 12 1996

End Date:Feb 19 1997

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
mw-12	4	25	110.0000	5.0000	80.2500	50.5989
mw-13	4	0	140.0000	74.0000	100.7500	30.6309
recwell	5	0	110.0000	10.0000	73.0000	41.3884

Group Statistics

Data Mode:Original

Wells:All Wells

Test:Observations

Observations: 13

Mean: 83.7692

Std Dev: 39.9273

Minimum: 5.0000

Maximum: 140.0000

Median: 96.0000

Skewness: -0.8640

Correlation Coef: 0.9335

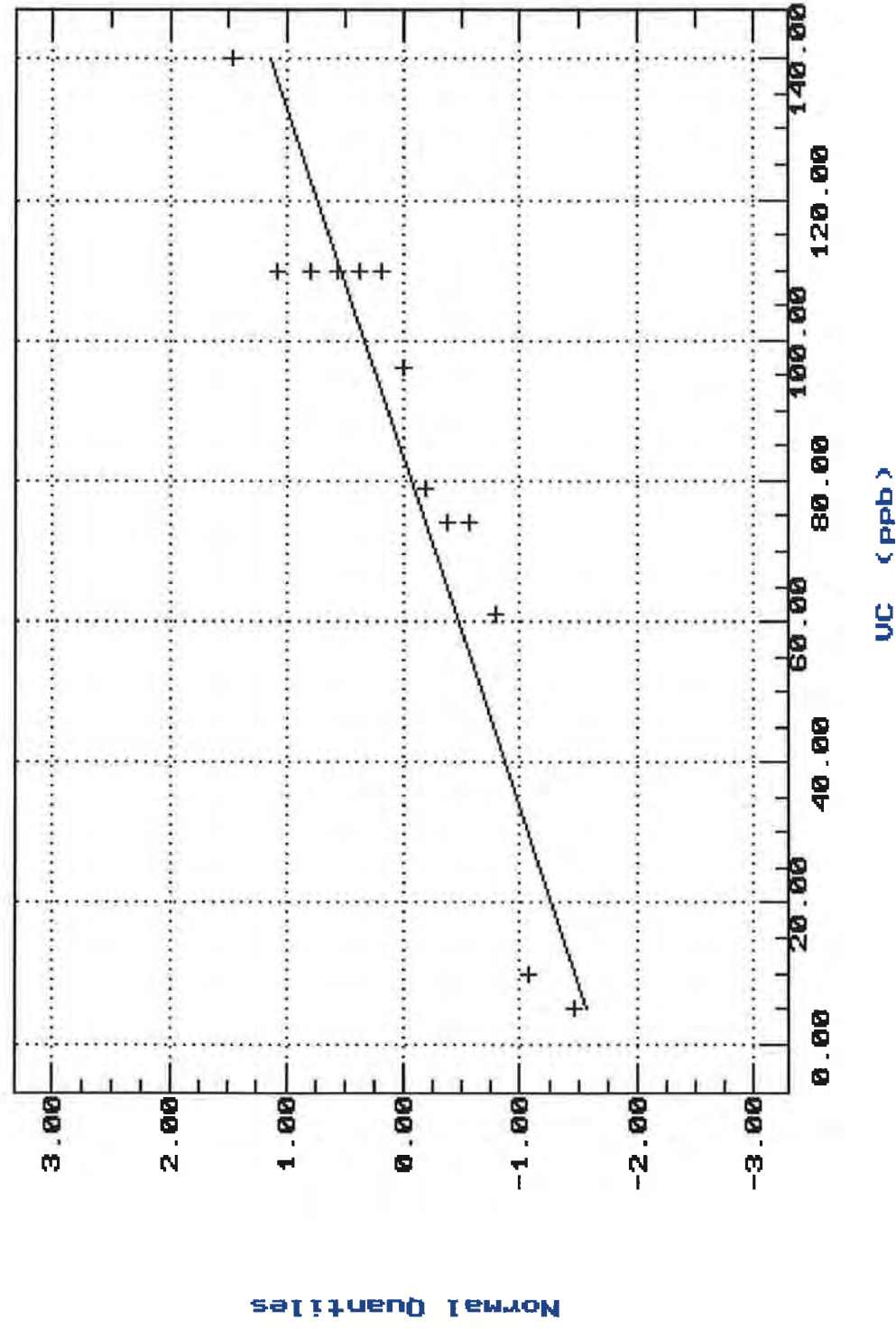
R($\alpha=0.01,N$):0.895

R($\alpha=0.05,N$):0.931

ppb	Order	Prob	Quantile
5.0000	1	7.143	-1.465
10.0000	2	14.286	-1.068
61.0000	3	21.429	-0.792
74.0000	4	28.571	-0.566
74.0000	5	35.714	-0.366
79.0000	6	42.857	-0.180

96.0000	7	50.000	0.000
110.0000	8	57.143	0.180
110.0000	9	64.286	0.366
110.0000	10	71.429	0.566
110.0000	11	78.571	0.792
110.0000	12	85.714	1.068
140.0000	13	92.857	1.465

Probability Plot of UC Concentrations
Selected Background and Compliance Wells Mar 12, 1996 To Feb 19, 1997



Box-Plot Summary

Report Printed: 04-09-1997 12:40

Facility:OCT Oil City Tube

Address:

City:Oil City ST:PA Zip:16301
County:VENANGO

Contact:
Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 10.000 ppb

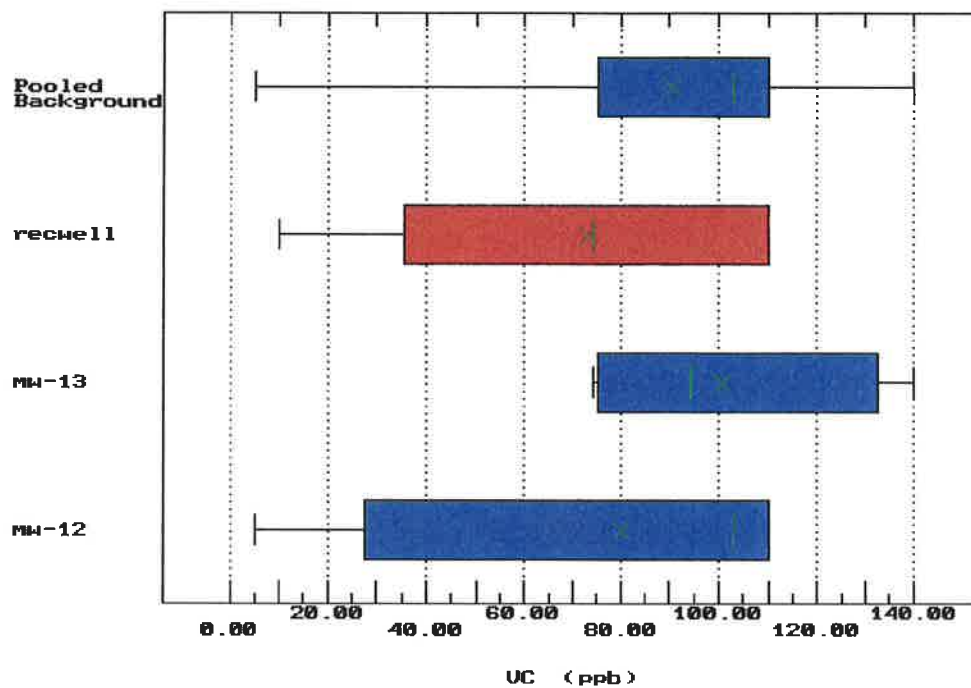
Start Date:Mar 12 1996

End Date:Feb 19 1997

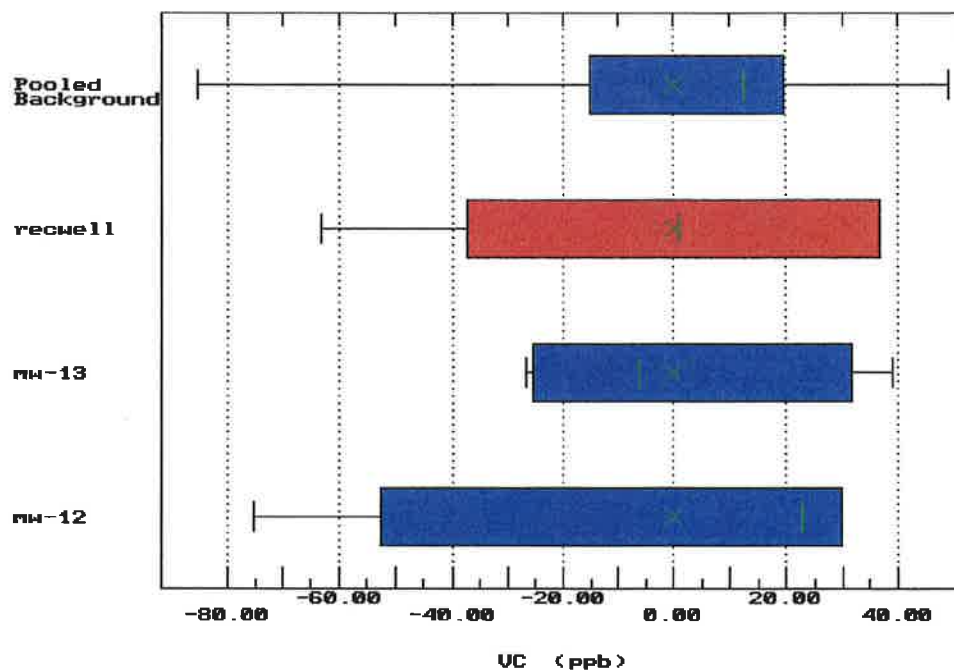
VC Observations-Units:ppb

Well ID	25th %Tile	Median	75th %Tile	Std Dev	IQR
mw-12	27.750	103.000	110.000	50.599	82.250
mw-13	75.250	94.500	132.500	30.631	57.250
recwell	35.500	74.000	110.000	41.388	74.500

Facility OCT **Box Plot of UC Concentrations**
 -Selected Wells-03/12/96 To 02/19/97



Facility OCT **Box Plot of UC Residuals**
 -Selected Wells-03/12/96 To 02/19/97



Levene's Test for Homogeneity of Variance

Report Printed: 04-09-1997 12:39

Facility:OCT Oil City Tube

Address:

City:Oil City ST:PA Zip:16301
County:VENANGO

Contact:
Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 10.000 ppb

Start Date:Mar 12 1996
End Date:Feb 19 1997

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
mw-12	4	25	110.00	5.00	80.25	50.60
mw-13	4	0	140.00	74.00	100.75	30.63

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
recwell	5	0	110.00	10.00	73.00	41.39

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	2.70	1	2.70	0.01
Within wells	5190.47	11	471.86	
Total	5193.17	12		

Tabulated F at $\alpha = 0.050$ 4.84
Since the computed F does not exceed the tabulated F, the assumption of equal variances may be accepted.

One-Way Parametric Analysis of Variance

Report Printed: 04-09-1997 12:46

Facility:OCT Oil City Tube

Address:

City:Oil City
County:VENANGO

ST:PA Zip:16301

Contact:
Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 10.000 ppb

Start Date:Mar 12 1996

End Date:Feb 19 1997

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
mw-12	4	25	110.00	5.00	80.25	50.60
mw-13	4	0	140.00	74.00	100.75	30.63

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
recwell	5	0	110.00	10.00	73.00	41.39

Data Mode:Original

Source of Variation	Sum of squares	Degrees of freedom	Mean squares	Computed F
Between wells	942.308	1	942.308	0.570
Within wells	18188.000	11	1653.455	
Total	19130.309	12		

Tabulated F($\alpha=0.050$): 4.844

Since the calculated F does not exceed the tabulated F, there is no significant difference between the concentrations at the selected wells and thus no evidence of contamination.

Wilcoxon Rank-Sum Test

Report Printed: 04-09-1997 12:44

Facility:OCT Oil City Tube

Address:

City:Oil City ST:PA Zip:16301
County:VENANGO

Contact:
Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 10.000 ppb

Start Date:Mar 12 1996
End Date:Feb 19 1997

Data Mode:Log Transformed

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
mw-12	4	25	4.70	1.61	3.89	1.52
mw-13	4	0	4.94	4.30	4.58	0.30

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
recwell	5	0	4.70	2.30	4.02	1.00

Well	Date	Observation	Rank
mw-12	05/21/96	4.7005	10.0
mw-12	06/24/96	4.7005	10.0
mw-12	09/27/96	1.6094	1.0
mw-12	02/19/97	4.5643	7.0
mw-13	05/21/96	4.9416	13.0
mw-13	06/24/96	4.7005	10.0
mw-13	09/27/96	4.3694	6.0
mw-13	02/19/97	4.3041	4.5

Background Data Rank-Sum:			61.5
recwell	03/12/96	2.3026	2.0
recwell	06/21/96	4.1109	3.0
recwell	09/27/96	4.7005	10.0
recwell	11/22/96	4.7005	10.0
recwell	02/19/97	4.3041	4.5

Compliance Data Rank-Sum:	29.5
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Background Data Pts m:	8
Compliance Data Pts n:	5
Wilcoxon Statistic W:	14.5000
Expected Value E(W):	20.0000
Std Dev SD(W):	6.8313
Std Dev (Ties) SD'(W):	6.6313
Approx Z-Score Z:	-0.9048
Significance Level α :	0.01
Z α :	2.3263

Since the Approx. Z-Score does not exceed Z α there is no significant evidence of contamination at the compliance well.

CABF-T Test

Report Printed: 04-09-1997 12:45

Facility:OCT Oil City Tube

Address:

City:Oil City ST:PA Zip:16301
County:VENANGO

Contact:
Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 10.000 ppb

Start Date:Mar 12 1996
End Date:Feb 19 1997

Data Mode:Original

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
mw-12	4	25	110.00	5.00	80.25	50.60
mw-13	4	0	140.00	74.00	100.75	30.63

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
recwell	5	0	110.00	10.00	73.00	41.39

Wells Observations Mean Variance	Background/Upgradient		Compliance/DownGradient	
	mw-12	mw-13	recwell	
		8	5	
		90.5000	73.0000	
		1619.4285	1713.0000	
Standard Error	23.3458			
Degrees of Freedom	8.4397			
Significance Level(α)	0.0100			

t-Statistic: -0.7496

Critical Value: 2.8609

Since the t-statistic does not exceed Critical Value, the hypothesis of equal means is not rejected.

Kruskal-Wallace Test

Report Printed: 04-09-1997 12:46

Facility:OCT Oil City Tube

Address:

City:Oil City ST:PA Zip:16301
County:VENANGO

Contact:
Phone: () -

Permit Type:Background

Constituent:VC Vinyl chloride

CAS Number: 75-01-4
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 10.000 ppb

Start Date:Mar 12 1996
End Date:Feb 19 1997

Data Mode:Log Transformed

Background Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
mw-12	4	25	4.70	1.61	3.89	1.52
mw-13	4	0	4.94	4.30	4.58	0.30

Compliance Wells

Well ID	N	%ND	Max Value	Min Value	Mean	Std Dev
recwell	5	0	4.70	2.30	4.02	1.00

Well ID	Date	Observation	Rank
mw-12	05/21/96	4.7005	10.0
mw-12	06/24/96	4.7005	10.0
mw-12	09/27/96	1.6094	1.0
mw-12	02/19/97	4.5643	7.0
mw-13	05/21/96	4.9416	13.0
mw-13	06/24/96	4.7005	10.0
mw-13	09/27/96	4.3694	6.0
mw-13	02/19/97	4.3041	4.5

	Background Rank Sum:	61.5
	Background Rank Avg:	7.7
recwell	03/12/96	2.3026 2.0
recwell	06/21/96	4.1109 3.0
recwell	09/27/96	4.7005 10.0
recwell	11/22/96	4.7005 10.0
recwell	02/19/97	4.3041 4.5

Compliance Well Rank Sum:	29.5
Compliance Well Rank Avg:	5.9

H Statistic:	0.6482
H Adjusted for Ties:	0.6879
Degrees of Freedom:	1
Chi-Squared:	3.8414
Z α /DF:	1.6449

* Indicates significant evidence of contamination

Well ID	Crit. Diff.	Rank Avg.	Background Rank Avg.	Difference
recwell	3.6317	5.90	7.69	-1.79

APPENDIX D

LABORATORY ANALYSIS REPORTS

**FREE-COL LABORATORIES, LTD.**

P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

02/25/97

TO: MOODY & ASSOCIATES11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 1

	SAMPLE ID	MW-2	MW-3	MW-21	MW-22
		BAILED	BAILED	BAILED	BAILED
		02/19/97	02/19/97	02/19/97	02/19/97
	LAB ID	70219044	70219045	70219046	70219047
PARAMETER	DATE RECEIVED:	02/19/97	02/19/97	02/19/97	02/19/97

VOLATILE COMPOUNDS

UNITS = MG/L

CHLOROMETHANE	<0.010	<0.010	<0.010	<0.010
BROMOMETHANE	<0.010	<0.010	<0.010	<0.010
VINYL CHLORIDE	0.016	<0.010	<0.010	<0.010
CHLOROETHANE	<0.010	<0.010	<0.010	<0.010
METHYLENE CHLORIDE	<0.005	<0.005	<0.005	<0.005
ACETONE	<0.10	<0.10	<0.10	<0.10
CARBON DISULFIDE	<0.005	<0.005	<0.005	<0.005
1,1,-DICHLOROETHENE	<0.005	<0.005	<0.005	<0.005
1,1,-DICHLOROETHANE	<0.005	<0.005	<0.005	<0.005
1,2-DICHLORO***	0.093	0.014	<0.005	0.055
CHLOROFORM	<0.005	<0.005	<0.005	<0.005
1,2-DICHLOROETHANE	<0.005	<0.005	<0.005	<0.005
2-BUTANONE	<0.10	<0.10	<0.10	<0.10
1,1,1-TRICHLOROETHA*	<0.005	<0.005	<0.005	<0.005
CARBON TETRACHLORIDE	<0.005	<0.005	<0.005	<0.005
VINYL ACETATE	<0.050	<0.050	<0.050	<0.050
BROMODICHLOROMETHANE	<0.005	<0.005	<0.005	<0.005
1,1,2,2-TETRACHLORO*	<0.005	<0.005	<0.005	<0.005
1,2-DICHLOROPROPANE	<0.005	<0.005	<0.005	<0.005
TRANS-1,3-DICHLOROP*	<0.005	<0.005	<0.005	<0.005
TRICHLOROETHENE	0.010	<0.005	<0.005	0.017
DIBROMOCHLOROMETHANE	<0.005	<0.005	<0.005	<0.005
1,1,2-TRICHLOROETHA*	<0.005	<0.005	<0.005	<0.005
BENZENE	<0.005	<0.005	<0.005	<0.005
CIS-1,3-DICHLOROPRO*	<0.005	<0.005	<0.005	<0.005

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

A.I.H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552

NY Dept. of Env. Conservation Approved Facility
ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C

U.S. Office of Surface Mining Approved Facility
Ohio Dept. of Health Approved Environmental
Lead Laboratory No. 10016

KEY:

<=LESS THAN

>=GREATER THAN

w.f.=WILL FOLLOW

**FREE-COL LABORATORIES, LTD.**

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MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

02/25/97

TO: MOODY & ASSOCIATES11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID	:	MW-2	MW-3	MW-21	MW-22
		BAILED	BAILED	BAILED	BAILED
		02/19/97	02/19/97	02/19/97	02/19/97
LAB ID		70219044	70219045	70219046	70219047
PARAMETER	DATE RECEIVED:	02/19/97	02/19/97	02/19/97	02/19/97

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

2-CHLOR* VINYL ETHER	<0.010	<0.010	<0.010	<0.010
BROMOFORM	<0.005	<0.005	<0.005	<0.005
2-HEXANONE	<0.050	<0.050	<0.050	<0.050
4-METHYL-2-PENTANONE	<0.050	<0.050	<0.050	<0.050
TETRACHLOROETHENE	<0.005	<0.005	<0.005	<0.005
TOLUENE	<0.005	<0.005	<0.005	<0.005
CHLOROBENZENE	<0.005	0.005	<0.005	<0.005
ETHYL BENZENE	<0.005	<0.005	<0.005	<0.005
STYRENE	<0.005	<0.005	<0.005	<0.005
TOTAL XYLENES	<0.005	<0.005	<0.005	<0.005

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please
reference the enclosed list for their complete names.

A.I.H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552

NY Dept. of Env. Conservation Approved Facility
ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C

U.S. Office of Surface Mining Approved Facility
Ohio Dept. of Health Approved Environmental
Lead Laboratory No. 10016

KEY:

<=LESS THAN

>=GREATER THAN

w.f.=WILL FOLLOW

**FREE-COL LABORATORIES, LTD.**

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MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

02/25/97

TO: MOODY & ASSOCIATES11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 3

	SAMPLE ID	: RECOV WELL	MW-14	MW-13	MW-12
		BAILED	BAILED	BAILED	BAILED
		02/19/97	02/19/97	02/19/97	02/19/97
	LAB ID	70219048	70219049	70219050	70219051
PARAMETER	DATE RECEIVED:	02/19/97	02/19/97	02/19/97	02/19/97

VOLATILE COMPOUNDS

UNITS = MG/L

CHLOROMETHANE	<0.010	<0.010	<0.010	<0.010
BROMOMETHANE	<0.010	<0.010	<0.010	<0.010
VINYL CHLORIDE	0.074	<0.010	0.074	0.096
CHLOROETHANE	<0.010	<0.010	<0.010	<0.010
METHYLENE CHLORIDE	<0.005	<0.005	<0.005	<0.005
ACETONE	<0.10	<0.10	<0.10	<0.10
CARBON DISULFIDE	<0.005	<0.005	<0.005	<0.005
1,1,-DICHLOROETHENE	<0.005	<0.005	<0.005	0.007
1,1,-DICHLOROETHANE	<0.005	<0.005	<0.005	<0.005
1,2-DICHLORO***	0.25	<0.005	0.26	1.9
CHLOROFORM	<0.005	<0.005	<0.005	<0.005
1,2-DICHLOROETHANE	<0.005	<0.005	<0.005	<0.005
2-BUTANONE	<0.10	<0.10	<0.10	<0.10
1,1,1-TRICHLOROETHA*	<0.005	<0.005	<0.005	<0.005
CARBON TETRACHLORIDE	<0.005	<0.005	<0.005	<0.005
VINYL ACETATE	<0.050	<0.050	<0.050	<0.050
BROMODICHLOROMETHANE	<0.005	<0.005	<0.005	<0.005
1,1,2,2-TETRACHLORO*	<0.005	<0.005	<0.005	<0.005
1,2-DICHLOROPROPANE	<0.005	<0.005	<0.005	<0.005
TRANS-1,3-DICHLOROP*	<0.005	<0.005	<0.005	<0.005
TRICHLOROETHENE	0.12	<0.005	0.079	0.060
DIBROMOCHLOROMETHANE	<0.005	<0.005	<0.005	<0.005
1,1,2-TRICHLOROETHA*	<0.005	<0.005	<0.005	<0.005
BENZENE	<0.005	<0.005	<0.005	<0.005
CIS-1,3-DICHLOROPRO*	<0.005	<0.005	<0.005	<0.005

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NY Dept. of Health Laboratory I.D. No. 10552

NY Dept. of Env. Conservation Approved Facility
ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C

U.S. Office of Surface Mining Approved Facility
Ohio Dept. of Health Approved Environmental
Lead Laboratory No. 10016

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**FREE-COL LABORATORIES, LTD.**

P.O. BOX 557, 11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

02/25/97

TO: MOODY & ASSOCIATES11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 4

SAMPLE ID	:	RECOV WELL	MW-14	MW-13	MW-12
		BAILED	BAILED	BAILED	BAILED
		02/19/97	02/19/97	02/19/97	02/19/97
LAB ID		70219048	70219049	70219050	70219051
PARAMETER	DATE RECEIVED:	02/19/97	02/19/97	02/19/97	02/19/97

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

2-CHLOR* VINYL ETHER	<0.010	<0.010	<0.010	<0.010
BROMOFORM	<0.005	<0.005	<0.005	<0.005
2-HEXANONE	<0.050	<0.050	<0.050	<0.050
4-METHYL-2-PENTANONE	<0.050	<0.050	<0.050	<0.050
TETRACHLOROETHENE	<0.005	<0.005	<0.005	<0.005
TOLUENE	<0.005	<0.005	<0.005	<0.005
CHLOROBENZENE	<0.005	<0.005	<0.005	<0.005
ETHYL BENZENE	<0.005	<0.005	<0.005	<0.005
STYRENE	<0.005	<0.005	<0.005	<0.005
TOTAL XYLENES	<0.005	<0.005	<0.005	<0.005

DATE AND ANALYST
02/24/97 ECKLUND

*Some of the above names have been abbreviated. Please
reference the enclosed list for their complete names.

John R. Paraska
QUALITY ASSURANCE SUPERVISOR

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Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

VOLATILE COMPOUNDS

Chloromethane	Bromodichloromethane
Bromomethane	1,1,2,2-Tetrachloroethane
Vinyl Chloride	1,2-Dichloropropane
Chloroethane	trans-1,3-Dichloropropene
Methylene Chloride	Trichloroethene
Acetone	Dibromochloromethane
Carbon Disulfide	1,1,2-Trichloroethane
1,1-Dichloroethene	Benzene
1,1-Dichloroethane	cis-1,3-Dichloropropene
1,2-Dichloroethylenes (Total)***	2-Chloroethyl Vinyl Ether
Chloroform	Bromoform
1,2-Dichloroethane	2-Hexanone
2-Butanone	4-Methyl-2-pentanone
1,1,1-Trichloroethane	Tetrachloroethene
Carbon Tetrachloride	Toluene
Vinyl Acetate	Chlorobenzene
Ethyl Benzene	
Styrene	
Total Xylenes	

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

Moody and ASSOCIATES, Inc.

WATER AND EARTH SYSTEMS — CONSULTANTS AND DEVELOPERS

CHAIN OF CUSTODY RECORD

5380

PROJECT: Oil Casing Tube
Quarterly Sampling

DATE: 2-19-97
BILL TO: ☐ CLIENT ☒ MOODY'S

Sample Description	How Collected	Date	Time	Collector
1. <u>MW # 2</u> Parameters	<u>Bailed</u> <u>VOC Scan</u>	<u>2-19-97</u>		<u>M.B. Miller</u>
2. <u>MW # 3</u> Parameters	<u>Bailed</u> <u>Sec # 1</u>	<u>2-19-97</u>		<u>M.B.M.</u>
3. <u>MW # 21</u> Parameters	<u>Bailed</u> <u>Sec # 1</u>	<u>2-19-97</u>		<u>M.B.M.</u>
4. <u>MW # 22</u> Parameters	<u>Bailed</u> <u>Sec # 1</u>	<u>2-19-97</u>		<u>M.B.M.</u>
5. <u>Recovery Well</u> Parameters	<u>Bailed</u> <u>Sec # 1</u>	<u>2-19-97</u>		<u>M.B.M.</u>
6. <u>MW # 14</u> Parameters	<u>Bailed</u> <u>Sec # 1</u>	<u>2-19-97</u>		<u>M.B.M.</u>
7. <u>MW # 13</u> Parameters	<u>Bailed</u> <u>Sec # 1</u>	<u>2-19-97</u>		<u>M.B.M.</u>
8. <u>MW # 12</u> Parameters	<u>Bailed</u> <u>Sec # 1</u>	<u>2-19-97</u>		<u>M.B.M.</u>
9. Parameters				
10. Parameters				

CHAIN OF CUSTODY

1. <u>M.B. Miller</u> Signature	<u>Geologist</u> Title	<u>Moody's</u> Organization	<u>2-19-97</u> Inclusive Dates
2. <u>Shirley C. Johnson</u> Signature	<u>Project Chemist</u> Title	<u>Free Col</u> Organization	<u>2/19/97</u> Inclusive Dates
3. <u>John R. Harsh</u> Signature	<u>QA Supervisor</u> Title	<u>Free Col</u> Organization	<u>2/19/97 - 2/25/97</u> Inclusive Dates
4. _____ Signature	_____ Title	_____ Organization	_____ Inclusive Dates

White - Office

Canary - Client

Pink - Lab

**FREE-COL LABORATORIES, INC.**

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1486

12/02/96

TO: MOODY & ASSOCIATES11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 1

SAMPLE ID	:	MW 14	MW 13	MW 12
		BAILED	BAILED	BAILED
		11/22/96	11/22/96	11/22/96
LAB ID		61122066	61122067	61122068
PARAMETER	DATE RECEIVED:	11/22/96	11/22/96	11/22/96

VOLATILE COMPOUNDS	UNITS = MG/L		
CHLOROMETHANE	<0.010	<0.010	<0.010
BROMOMETHANE	<0.010	<0.010	<0.010
VINYL CHLORIDE	<0.010	0.021	<0.010
CHLOROETHANE	<0.010	<0.010	<0.010
METHYLENE CHLORIDE	<0.005	<0.005	<0.005
ACETONE	<0.10	<0.10	<0.10
CARBON DISULFIDE	<0.005	<0.005	<0.005
1,1,-DICHLOROETHENE	<0.005	<0.005	<0.005
1,1,-DICHLOROETHANE	<0.005	<0.005	<0.005
1,2-DICHLORO***	<0.005	0.19	0.072
CHLOROFORM	<0.005	<0.005	<0.005
1,2-DICHLOROETHANE	<0.005	<0.005	<0.005
2-BUTANONE	<0.10	<0.10	<0.10
1,1,1-TRICHLOROETHA*	<0.005	<0.005	<0.005
CARBON TETRACHLORIDE	<0.005	<0.005	<0.005
VINYL ACETATE	<0.050	<0.050	<0.050
BROMODICHLOROMETHANE	<0.005	<0.005	<0.005
1,1,2,2-TETRACHLORO*	<0.005	<0.005	<0.005
1,2-DICHLOROPROPANE	<0.005	<0.005	<0.005
TRANS-1,3-DICHLOROP*	<0.005	<0.005	<0.005
TRICHLOROETHENE	<0.005	0.13	0.062
DIBROMOCHLOROMETHANE	<0.005	<0.005	<0.005
1,1,2-TRICHLOROETHA*	<0.005	<0.005	<0.005
BENZENE	<0.005	<0.005	<0.005
CIS-1,3-DICHLOROPRO*	<0.005	<0.005	<0.005

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ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145

WV Dept. of Health Certification No. 9907C
NC Dept. of Natural Resources Cert. No. 236
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

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**FREE-COL LABORATORIES, INC.**

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PHONE: (814) 724-6242
FAX: (814) 333-1466

12/02/96

TO: MOODY & ASSOCIATES11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #**RE: OIL CITY TUBE****ACCOUNT NO. 00222****ANALYTICAL REPORT FORM****PAGE 2**

	SAMPLE ID	:	MW 14	MW 13	MW 12
			BAILED	BAILED	BAILED
			11/22/96	11/22/96	11/22/96
	LAB ID		61122066	61122067	61122068
PARAMETER	DATE RECEIVED:		11/22/96	11/22/96	11/22/96

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

2-CHLOR* VINYL ETHER	<0.010	<0.010	<0.010
BROMOFORM	<0.005	<0.005	<0.005
2-HEXANONE	<0.050	<0.050	<0.050
4-METHYL-2-PENTANONE	<0.050	<0.050	<0.050
TETRACHLOROETHENE	<0.005	<0.005	<0.005
TOLUENE	<0.005	<0.005	<0.005
CHLOROBENZENE	<0.005	<0.005	<0.005
ETHYL BENZENE	<0.005	<0.005	<0.005
STYRENE	<0.005	<0.005	<0.005
TOTAL XYLENES	<0.005	<0.005	<0.005

Please reference the following page(s) for date and analyst.

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12/02/96

TO: MOODY & ASSOCIATES11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #**RE: OIL CITY TUBE****ACCOUNT NO. 00222****ANALYTICAL REPORT FORM****PAGE 3**

	SAMPLE ID	:	MW 2	MW 21
			BAILED	BAILED
			11/22/96	11/22/96
	LAB ID		61122069	61122070
PARAMETER	DATE RECEIVED:		11/22/96	11/22/96

VOLATILE COMPOUNDS

UNITS = MG/L

CHLOROMETHANE	<0.010	<0.010
BROMOMETHANE	<0.010	<0.010
VINYL CHLORIDE	0.031	<0.010
CHLOROETHANE	<0.010	<0.010
METHYLENE CHLORIDE	<0.005	<0.005
ACETONE	<0.10	<0.10
CARBON DISULFIDE	<0.005	<0.005
1,1,-DICHLOROETHENE	<0.005	<0.005
1,1,-DICHLOROETHANE	<0.005	<0.005
1,2-DICHLORO***	0.13	<0.005
CHLOROFORM	<0.005	<0.005
1,2-DICHLOROETHANE	<0.005	<0.005
2-BUTANONE	<0.10	<0.10
1,1,1-TRICHLOROETHA*	<0.005	<0.005
CARBON TETRACHLORIDE	<0.005	<0.005
VINYL ACETATE	<0.050	<0.050
BROMODICHLOROMETHANE	<0.005	<0.005
1,1,2,2-TETRACHLORO*	<0.005	<0.005
1,2-DICHLOROPROPANE	<0.005	<0.005
TRANS-1,3-DICHLOROP*	<0.005	<0.005
TRICHLOROETHENE	<0.005	<0.005
DIBROMOCHLOROMETHANE	<0.005	<0.005
1,1,2-TRICHLOROETHA*	<0.005	<0.005
BENZENE	<0.005	<0.005
CIS-1,3-DICHLOROPRO*	<0.005	<0.005

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FAX: (814) 333-1466

12/02/96

TO: MOODY & ASSOCIATES

11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 4

	SAMPLE ID	:	MW 2	MW 21
			BAILED	BAILED
			11/22/96	11/22/96
	LAB ID		61122069	61122070
PARAMETER	DATE RECEIVED:		11/22/96	11/22/96

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

2-CHLOR* VINYL ETHER	<0.010	<0.010
BROMOFORM	<0.005	<0.005
2-HEXANONE	<0.050	<0.050
4-METHYL-2-PENTANONE	<0.050	<0.050
TETRACHLOROETHENE	<0.005	<0.005
TOLUENE	<0.005	<0.005
CHLOROBENZENE	<0.005	<0.005
ETHYL BENZENE	<0.005	<0.005
STYRENE	<0.005	<0.005
TOTAL XYLENES	<0.005	<0.005

Please reference the following page(s) for date and analyst.

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12/02/96

TO: MOODY & ASSOCIATES11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 5

SAMPLE ID : REC. WELL
BAILED
11/22/96
LAB ID 61122071
DATE RECEIVED: 11/22/96

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
<u>VOLATILE COMPOUNDS</u>					
Chloromethane	<0.010	MG/L	11/26/96		ECKLUND
Bromomethane	<0.010				
Vinyl Chloride	0.11				
Chloroethane	<0.010				
Methylene Chloride	<0.005				
Acetone	<0.10				
Carbon Disulfide	<0.005				
1,1-Dichloroethene	<0.005				
1,1-Dichloroethane	<0.005				
1,2-Dichloroethenes (Total)***	0.16				
Chloroform	<0.005				
1,2-Dichloroethane	<0.005				
2-Butanone	<0.10				
1,1,1-Trichloroethane	<0.005				
Carbon Tetrachloride	<0.005				
Vinyl Acetate	<0.050				
Bromodichloromethane	<0.005				
1,1,2,2-Tetrachloroethane	<0.005				
1,2-Dichloropropane	<0.005				
trans-1,3-Dichloropropene	<0.005				
Trichloroethene	0.11				
Dibromochloromethane	<0.005				
1,1,2-Trichloroethane	<0.005				

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

MEADVILLE DIVISION

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P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
12/02/96

TO: MOODY & ASSOCIATES**P.O. #**

11548 COTTON ROAD
MEADVILLE

PA 16335**ACCOUNT NO. 00222****ANALYTICAL REPORT FORM****PAGE 6**

SAMPLE ID : REC. WELL
BAILED
11/22/96
LAB ID 61122071
DATE RECEIVED: 11/22/96

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
<u>VOLATILE COMPOUNDS</u> Continued				
Benzene	<0.005	MG/L	11/26/96	ECKLUND
cis-1,3-Dichloropropene	<0.005			
2-Chloroethylvinyl ether	<0.010			
Bromoform	<0.005			
2-Hexanone	<0.050			
4-Methyl-2-pentanone	<0.050			
Tetrachloroethene	<0.005			
Toluene	<0.005			
Chlorobenzene	<0.005			
Ethylbenzene	<0.005			
Styrene	<0.005			
Total Xylenes	<0.005			

John R. Paraska
QUALITY ASSURANCE SUPERVISOR

MEADVILLE DIVISION

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WV Dept. of Health Certification No. 9907C
NC Dept. of Natural Resources Cert. No. 236
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

KEY:**<=LESS THAN****>=GREATER THAN****w.f.=WILL FOLLOW**

FREE-COL LABORATORIES, INC.

P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16835-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1486

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds**VOLATILE COMPOUNDS**

Chloromethane	Bromodichloromethane
Bromomethane	1,1,2,2-Tetrachloroethane
Vinyl Chloride	1,2-Dichloropropane
Chloroethane	trans-1,3-Dichloropropene
Methylene Chloride	Trichloroethene
Acetone	Dibromochloromethane
Carbon Disulfide	1,1,2-Trichloroethane
1,1-Dichloroethene	Benzene
1,1-Dichloroethane	cis-1,3-Dichloropropene
1,2-Dichloroethylenes (Total)***	2-Chloroethyl Vinyl Ether
Chloroform	Bromoform
1,2-Dichloroethane	2-Hexanone
2-Butanone	4-Methyl-2-pentanone
1,1,1-Trichloroethane	Tetrachloroethene
Carbon Tetrachloride	Toluene
Vinyl Acetate	Chlorobenzene
Ethyl Benzene	
Styrene	
Total Xylenes	

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

Moody and ASSOCIATES, Inc.

WATER AND EARTH SYSTEMS — CONSULTANTS AND DEVELOPERS

CHAIN OF CUSTODY RECORD

5368

PROJECT: Oil City Tank
Quarterly Sampling

DATE: 11-22-96

BILL TO: ☐ CLIENT ☐ MOODY'S

Sample Description	How Collected	Date	Time	Collector
1. <u>MW# 14</u> Parameters	<u>Bailed</u> <u>VOC Scan</u>	<u>11-22-96</u>		<u>Mark B. Miller</u> <u>Chris Gatos</u>
2. <u>MW# 13</u> Parameters	<u>Bailed</u> <u>VOC Scan</u>	<u>11-22-96</u>		<u>MBM CO.</u>
3. <u>MW# 12</u> Parameters	<u>Bailed</u> <u>VOC Scan</u>	<u>11-22-96</u>		<u>MBM CO.</u>
4. <u>MW# 2</u> Parameters	<u>Bailed</u> <u>VOC Scan</u>	<u>11-22-96</u>		<u>MBM CO.</u>
5. <u>MW# 21</u> Parameters	<u>Bailed</u> <u>VOC Scan</u>	<u>11-22-96</u>		<u>MBM CO.</u>
<u>Recovery Bell</u> Parameters	<u>Bailed</u> <u>VOC Scan</u>	<u>11-22-96</u>		<u>MBM CO.</u>
7. Parameters				
8. Parameters				
9. Parameters				
10. Parameters				

CHAIN OF CUSTODY

1. <u>Mark B. Miller</u> Signature	<u>Geologist</u> Title	<u>Moody's</u> Organization	<u>11-22-96</u> Inclusive Dates
2. <u>[Signature]</u> Signature	<u>Geologist</u> Title	<u>Moody's</u> Organization	<u>11-22-96</u> Inclusive Dates
3. <u>[Signature]</u> Signature	<u>[Signature]</u> Title	<u>FCC</u> Organization	<u>11/22/96</u> Inclusive Dates
4. <u>S. Hukinson</u> Signature	<u>Chief</u> Title	<u>Free Col</u> Organization	<u>11/22/96</u> Inclusive Dates
<u>John R. [Signature]</u> White - Office	<u>QA Supervisor</u> Canary Client	<u>Free Col</u> Pink - Lab	<u>11/22/96 - 12/02/96</u>

**FREE-COL LABORATORIES, INC.**

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

OCT - 8 1996

TO:

10/07/96

MOODY & ASSOCIATES

P.O. #

11548 COTTON ROAD
MEADVILLE

PA 16335

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	REC. WELL	MW#2	MW#3
		BAILED	BAILED	BAILED
		09/27/96	09/27/96	09/27/96
	LAB ID	60927017	60927018	60927019
	DATE RECEIVED:	09/27/96	09/27/96	09/27/96

<u>VOLATILE COMPOUNDS</u>	UNITS = MG/L		
CHLOROMETHANE	<0.010	<0.010	<0.010
BROMOMETHANE	<0.010	<0.010	<0.010
VINYL CHLORIDE	0.080	0.031	<0.010
CHLOROETHANE	<0.010	<0.010	<0.010
METHYLENE CHLORIDE	<0.005	<0.005	<0.005
ACETONE	<0.10	<0.10	<0.10
CARBON DISULFIDE	<0.005	<0.005	<0.005
1,1,-DICHLOROETHENE	<0.005	<0.005	<0.005
1,1,-DICHLOROETHANE	<0.005	<0.005	<0.005
1,2-DICHLORO***	0.14	0.15	0.017
CHLOROFORM	<0.005	<0.005	<0.005
1,2-DICHLOROETHANE	<0.005	<0.005	<0.005
2-BUTANONE	<0.10	<0.10	<0.10
1,1,1-TRICHLOROETHA*	<0.005	<0.005	<0.005
CARBON TETRACHLORIDE	<0.005	<0.005	<0.005
VINYL ACETATE	<0.050	<0.050	<0.050
BROMODICHLOROMETHANE	<0.005	<0.005	<0.005
1,1,2,2-TETRACHLORO*	<0.005	<0.005	<0.005
1,2-DICHLOROPROPANE	<0.005	<0.005	<0.005
TRANS-1,3-DICHLOROP*	<0.005	<0.005	<0.005
TRICHLOROETHENE	0.14	<0.005	<0.005
DIBROMOCHLOROMETHANE	<0.005	<0.005	<0.005
1,1,2-TRICHLOROETHA*	<0.005	<0.005	<0.005
BENZENE	<0.005	<0.005	<0.005
CIS-1,3-DICHLOROPRO*	<0.005	<0.005	<0.005

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

MEADVILLE DIVISION

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U.S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory

NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility
ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145

WV Dept. of Health Certification No. 9907C
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TO:

10/07/96

MOODY & ASSOCIATES

P.O. #

11548 COTTON ROAD
MEADVILLE

PA 16335

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 2

	SAMPLE ID	:	REC. WELL	MW#2	MW#3
			BAILED	BAILED	BAILED
			09/27/96	09/27/96	09/27/96
	LAB ID		60927017	60927018	60927019
PARAMETER	DATE RECEIVED:		09/27/96	09/27/96	09/27/96

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

2-CHLOR* VINYL ETHER	<0.010	<0.010	<0.010
BROMOFORM	<0.005	<0.005	<0.005
2-HEXANONE	<0.050	<0.050	<0.050
4-METHYL-2-PENTANONE	<0.050	<0.050	<0.050
TETRACHLOROETHENE	<0.005	<0.005	<0.005
TOLUENE	<0.005	<0.005	<0.005
CHLOROBENZENE	<0.005	<0.005	0.006
ETHYL BENZENE	<0.005	<0.005	<0.005
STYRENE	<0.005	<0.005	<0.005
TOTAL XYLENES	<0.005	<0.005	<0.005

Please reference the following page(s) for date and analyst.

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TO:

10/07/96

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11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 3

SAMPLE ID : MW#21
BAILED
09/27/96
LAB ID 60927020
DATE RECEIVED: 09/27/96

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
<u>VOLATILE COMPOUNDS</u>					
Chloromethane	<0.010	MG/L	10/02/96		ECKLUND
Bromomethane	<0.010				
Vinyl Chloride	<0.010				
Chloroethane	<0.010				
Methylene Chloride	<0.005				
Acetone	<0.10				
Carbon Disulfide	<0.005				
1,1-Dichloroethene	<0.005				
1,1-Dichloroethane	<0.005				
1,2-Dichloroethenes (Total)***	<0.005				
Chloroform	<0.005				
1,2-Dichloroethane	<0.005				
2-Butanone	<0.10				
1,1,1-Trichloroethane	<0.005				
Carbon Tetrachloride	<0.005				
Vinyl Acetate	<0.050				
Bromodichloromethane	<0.005				
1,1,2,2-Tetrachloroethane	<0.005				
1,2-Dichloropropane	<0.005				
trans-1,3-Dichloropropene	<0.005				
Trichloroethene	<0.005				
Dibromochloromethane	<0.005				
1,1,2-Trichloroethane	<0.005				

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

MEADVILLE DIVISION

A.I.H.A. Accreditation No. 88
U.S. Public Health Services Approved Facility
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NC Dept. of Natural Resources Cert. No. 236
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

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PHONE: (814) 724-6242
FAX: (814) 333-1466

10/07/96

TO:

MOODY & ASSOCIATES

P.O. #

11548 COTTON ROAD
MEADVILLE

PA 16335

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 4

SAMPLE ID : MW#21
BAILED
09/27/96
LAB ID 60927020
DATE RECEIVED: 09/27/96

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
<u>VOLATILE COMPOUNDS</u> Continued				
Benzene	<0.005	MG/L	10/02/96	ECKLUND
cis-1,3-Dichloropropene	<0.005			
2-Chloroethylvinyl ether	<0.010			
Bromoform	<0.005			
2-Hexanone	<0.050			
4-Methyl-2-pentanone	<0.050			
Tetrachloroethene	<0.005			
Toluene	<0.005			
Chlorobenzene	<0.005			
Ethylbenzene	<0.005			
Styrene	<0.005			
Total Xylenes	<0.005			

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

MEADVILLE DIVISION

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U.S. Public Health Services Approved Facility
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ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds**VOLATILE COMPOUNDS**

Chloromethane

Bromomethane

Vinyl Chloride

Chloroethane

Methylene Chloride

Acetone

Carbon Disulfide

1,1-Dichloroethene

1,1-Dichloroethane

1,2-Dichloroethylenes (Total)***

Chloroform

1,2-Dichloroethane

2-Butanone

1,1,1-Trichloroethane

Carbon Tetrachloride

Vinyl Acetate

Ethyl Benzene

Styrene

Total Xylenes

Bromodichloromethane

1,1,2,2-Tetrachloroethane

1,2-Dichloropropane

trans-1,3-Dichloropropene

Trichloroethene

Dibromochloromethane

1,1,2-Trichloroethane

Benzene

cis-1,3-Dichloropropene

2-Chloroethyl Vinyl Ether

Bromoform

2-Hexanone

4-Methyl-2-pentanone

Tetrachloroethene

Toluene

Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

Moody and ASSOCIATES, Inc.

WATER AND EARTH SYSTEMS — CONSULTANTS AND DEVELOPERS

CHAIN OF CUSTODY RECORD

5447

PROJECT: 14 COY 7106
SWP NUMBER 1976

DATE: 9/27/96
BILL TO: ☐ CLIENT ☒ MOODY'S

Sample Description	How Collected	Date	Time	Collector
1. <u>RECOVERY WELL</u> Parameters	<u>FAILED</u> <u>NO 1/2</u>	<u>9/27/96</u>		<u>J. W. Hentrich</u>
2. <u>MW #2</u> Parameters	<u>BAILED</u> <u>SEE #1</u>	<u>9/27/96</u>		<u>J. W.</u>
3. <u>MW #3</u> Parameters	<u>FAILED</u> <u>SEE #1</u>	<u>9/27/96</u>		<u>J. W.</u>
4. <u>MW #51</u> Parameters	<u>BAILED</u> <u>SEE #1</u>	<u>9/27/96</u>		<u>J. W.</u>
5. Parameters				
6. Parameters				
7. Parameters				
8. Parameters				
9. Parameters				
10. Parameters				

CHAIN OF CUSTODY

1. <u>[Signature]</u> Signature	<u>Geologist</u> Title	<u>Moody's</u> Organization	<u>9/27/96</u> Inclusive Dates
2. <u>[Signature]</u> Signature	<u>Check-in</u> Title	<u>Free-Gr</u> Organization	<u>9/27/96</u> Inclusive Dates
3. <u>[Signature]</u> Signature	<u>Assistant Director</u> Title	<u>Free-Gr</u> Organization	<u>10/31/96</u> Inclusive Dates
4. <u> </u> Signature	<u> </u> Title	<u> </u> Organization	<u> </u> Inclusive Dates

White - Office

Canary - Client

Pink - Lab

**FREE-COL LABORATORIES, INC.**

P.O. BOX 557, COTTON ROAD
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PHONE: (814) 724-6242
FAX: (814) 333-1466

06/28/96

TO:

MOODY & ASSOCIATES

11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 1

	SAMPLE ID	: RECOV. WELL	MW#2	MW#3	MW#21
		PUMPED	BAILED	BAILED	BAILED
		06/21/96	06/21/96	06/21/96	06/21/96
	LAB ID	60624001	60624002	60624003	60624004
PARAMETER	DATE RECEIVED:	06/24/96	06/24/96	06/24/96	06/24/96

VOLATILE COMPOUNDS

UNITS = MG/L

CHLOROMETHANE	<0.010	<0.010	<0.010	<0.010
BROMOMETHANE	<0.010	<0.010	<0.010	<0.010
VINYL CHLORIDE	0.061	0.024	<0.010	<0.010
CHLOROETHANE	<0.010	<0.010	<0.010	<0.010
METHYLENE CHLORIDE	<0.005	<0.005	<0.005	<0.005
ACETONE	<0.10	<0.10	<0.10	<0.10
CARBON DISULFIDE	<0.005	<0.005	<0.005	<0.005
1,1,-DICHLOROETHENE	<0.005	<0.005	<0.005	<0.005
1,1,-DICHLOROETHANE	<0.005	<0.005	<0.005	<0.005
1,2-DICHLORO***	0.16	0.10	0.026	<0.005
CHLOROFORM	<0.005	<0.005	<0.005	<0.005
1,2-DICHLOROETHANE	<0.005	<0.005	<0.005	<0.005
2-BUTANONE	<0.10	<0.10	<0.10	<0.10
1,1,1-TRICHLOROETHA*	<0.005	<0.005	<0.005	<0.005
CARBON TETRACHLORIDE	<0.005	<0.005	<0.005	<0.005
VINYL ACETATE	<0.050	<0.050	<0.050	<0.050
BROMODICHLOROMETHANE	<0.005	<0.005	<0.005	<0.005
1,1,2,2-TETRACHLORO*	<0.005	<0.005	<0.005	<0.005
1,2-DICHLOROPROPANE	<0.005	<0.005	<0.005	<0.005
TRANS-1,3-DICHLOROP*	<0.005	<0.005	<0.005	<0.005
TRICHLOROETHENE	0.15	<0.005	<0.005	<0.005
DIBROMOCHLOROMETHANE	<0.005	<0.005	<0.005	<0.005
1,1,2-TRICHLOROETHA*	<0.005	<0.005	<0.005	<0.005
BENZENE	<0.005	<0.005	<0.005	<0.005
CIS-1,3-DICHLOROPRO*	<0.005	<0.005	<0.005	<0.005

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06/28/96

TO:

MOODY & ASSOCIATES

11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 2

	SAMPLE ID	:	RECOV.WELL PUMPED	MW#2 BAILED	MW#3 BAILED	MW#21 BAILED
			06/21/96	06/21/96	06/21/96	06/21/96
	LAB ID		60624001	60624002	60624003	60624004
PARAMETER	DATE RECEIVED:		06/24/96	06/24/96	06/24/96	06/24/96

VOLATILE COMPOUNDS (Cont.) UNITS = MG/L

2-CHLOR* VINYL ETHER	<0.010	<0.010	<0.010	<0.010
BROMOFORM	<0.005	<0.005	<0.005	<0.005
2-HEXANONE	<0.050	<0.050	<0.050	<0.050
4-METHYL-2-PENTANONE	<0.050	<0.050	<0.050	<0.050
TETRACHLOROETHENE	<0.005	<0.005	<0.005	<0.005
TOLUENE	<0.005	<0.005	<0.005	<0.005
CHLOROBENZENE	<0.005	<0.005	<0.005	<0.005
ETHYL BENZENE	<0.005	<0.005	<0.005	<0.005
STYRENE	<0.005	<0.005	<0.005	<0.005
TOTAL XYLENES	<0.005	<0.005	<0.005	<0.005

Please reference the following page(s) for date and analyst.

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06/28/96

TO:

MOODY & ASSOCIATES

11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 3

SAMPLE ID : MW#22
BAILED
06/21/96
LAB ID 60624005
DATE RECEIVED: 06/24/96

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
<u>VOLATILE COMPOUNDS</u>					
Chloromethane	<0.010	MG/L	06/26/96		ECKLUND
Bromomethane	<0.010				
Vinyl Chloride	<0.010				
Chloroethane	<0.010				
Methylene Chloride	<0.005				
Acetone	<0.10				
Carbon Disulfide	<0.005				
1,1-Dichloroethene	<0.005				
1,1-Dichloroethane	<0.005				
1,2-Dichloroethenes (Total)***	0.075				
Chloroform	<0.005				
1,2-Dichloroethane	<0.005				
2-Butanone	<0.10				
1,1,1-Trichloroethane	<0.005				
Carbon Tetrachloride	<0.005				
Vinyl Acetate	<0.050				
Bromodichloromethane	<0.005				
1,1,2,2-Tetrachloroethane	<0.005				
1,2-Dichloropropane	<0.005				
trans-1,3-Dichloropropene	<0.005				
Trichloroethene	0.021				
Dibromochloromethane	<0.005				
1,1,2-Trichloroethane	<0.005				

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

MEADVILLE DIVISION

A.I.H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory

NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility
ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145

WV Dept. of Health Certification No. 9907C
NC Dept. of Natural Resources Cert. No. 236
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

KEY:

<=LESS THAN

>=GREATER THAN

w.f.=WILL FOLLOW

**FREE-COL LABORATORIES, INC.**

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

06/28/96

TO:

MOODY & ASSOCIATES

11548 COTTON ROAD
MEADVILLE

PA 16335

P.O. #

RE: OIL CITY TUBE

ACCOUNT NO. 00222

ANALYTICAL REPORT FORM

PAGE 4

SAMPLE ID : MW#22
BAILED
06/21/96
LAB ID 60624005
DATE RECEIVED: 06/24/96

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
<u>VOLATILE COMPOUNDS</u> Continued					
Benzene	<0.005	MG/L	06/26/96		ECKLUND
cis-1,3-Dichloropropene	<0.005				
2-Chloroethylvinyl ether	<0.010				
Bromoform	<0.005				
2-Hexanone	<0.050				
4-Methyl-2-pentanone	<0.050				
Tetrachloroethene	<0.005				
Toluene	<0.005				
Chlorobenzene	<0.005				
Ethylbenzene	<0.005				
Styrene	<0.005				
Total Xylenes	<0.005				

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FREE-COL LABORATORIES, INC.

P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds**VOLATILE COMPOUNDS**

Chloromethane

Bromomethane

Vinyl Chloride

Chloroethane

Methylene Chloride

Acetone

Carbon Disulfide

1,1-Dichloroethene

1,1-Dichloroethane

1,2-Dichloroethylenes (Total)***

Chloroform

1,2-Dichloroethane

2-Butanone

1,1,1-Trichloroethane

Carbon Tetrachloride

Vinyl Acetate

Ethyl Benzene

Styrene

Total Xylenes

Bromodichloromethane

1,1,2,2-Tetrachloroethane

1,2-Dichloropropane

trans-1,3-Dichloropropene

Trichloroethene

Dibromochloromethane

1,1,2-Trichloroethane

Benzene

cis-1,3-Dichloropropene

2-Chloroethyl Vinyl Ether

Bromoform

2-Hexanone

4-Methyl-2-pentanone

Tetrachloroethene

Toluene

Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

Moody and ASSOCIATES, Inc.

WATER AND EARTH SYSTEMS — CONSULTANTS AND DEVELOPERS

CHAIN OF CUSTODY RECORD

PROJECT: Oil City Tube
Quarterly Sampling

DATE: 6-21-96

BILL TO: ☐ CLIENT ☒ MOODY'S

Sample Description	How Collected	Date	Time	Collector
1. <u>Param. Well</u> Parameters	<u>Pumped</u> VOC's	<u>6-21-96</u>		<u>Mark B. Miller</u>
2. <u>MW # 2</u> Parameters	<u>Bailed</u> VOC's	<u>6-21-96</u>		<u>Mark B. Miller</u>
3. <u>MW # 3</u> Parameters	<u>Bailed</u> VOC's	<u>6-21-96</u>		<u>Mark B. Miller</u>
4. <u>MW # 21</u> Parameters	<u>Bailed</u> VOC's	<u>6-21-96</u>		<u>Mark B. Miller</u>
5. <u>MW # 22</u> Parameters	<u>Bailed</u> VOC's	<u>6-21-96</u>		<u>Mark B. Miller</u>
6. Parameters				
7. Parameters				
8. Parameters				
9. Parameters				
10. Parameters				

CHAIN OF CUSTODY

1. <u>Mark B. Miller</u> Signature	<u>Geologist</u> Title	<u>Moody's</u> 6-21-96 Organization	<u>6-21-96</u> Inclusive Dates
<u>Eric Watt</u> Signature	<u>Check-in</u> Title	<u>Eric Watt</u> Organization	<u>6-24-96</u> Inclusive Dates
 Signature	 Title	 Organization	 Inclusive Dates
 Signature	 Title	 Organization	 Inclusive Dates

White - Office

Canary - Client

Pink - Lab

APPENDIX E

Environmental Lien and AUL Reports

DRAFT



ENVIRONMENTAL LIEN AND AUL REPORT

Order Number:
20-218MM-1

AFX Reference Number:
79-152619-47

Subject Property:
**KRAFT/DAHLSTROM
52 SPRUCE STREET
OIL CITY, PA 16301**

Completed:
12/09/2020

Effective:
12/09/2020

AFX RESEARCH, LLC

A Quarter-Century of Title Document Research Expertise

999 Monterey St. Suite 380, San Luis Obispo, CA 93401

(877) 848-5337 / www.afxllc.com

ENVIRONMENTAL LIEN AND AUL REPORT

(pg. 2 of 3)

Order #: 20-218MM-1 | Reference #: 79-152619-47 | Completed: 12/09/2020 | Effective: 12/09/2020

SOURCES SEARCHED

Source 1: VENANGO COUNTY RECORDER'S OFFICE
Source 2: PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

TARGET PROPERTY

Site Name: KRAFT/DAHLSTROM
Current Owner(s): GILBERT E DAHLSTROM
Street Address: 52 SPRUCE STREET
City, State Zip Code: OIL CITY, PA 16301
APN/Parcel/PIN: 16-034-140-000 County: VENANGO
16034140
Legal Description: 1.31 ACRES

PROPERTY OWNERSHIP

Instrument: **DEED**

Date Recorded: 12/19/1986 Book/Page: 890/502
Dated: 12/12/1986
Grantor(s): VENANGO INDUSTRIAL DEVELOPMENT AUTHORITY
Grantee(s): GILBERT E DAHLSTROM

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND FOR SUBJECT PROPERTY.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND FOR SUBJECT PROPERTY.

LEASES AND MISCELLANEOUS INSTRUMENTS

NO LEASES OR MISCELLANEOUS INSTRUMENTS FOUND FOR SUBJECT PROPERTY.



AFX RESEARCH, LLC
999 Monterey St. Suite 380, San Luis Obispo, CA 93401
Ph: (877) 848-5337 Fax: (800) 201-0620
<http://www.afxllc.com>