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US EPA RECO.

955821

APPENDIX F

ON-SITE SOIL BORING LOGS

LOG OF BORING NO. 1A

PROPOSED ADDITIONS, FRUEHAUF CORP. PLANT, AVON LAKE, OHIO

BORING LOCATION: As Shown on Boring Location Plan — DATE STARTED: 12-11-72

SURFACE ELEVATION: Not Taken — DATE COMPLETED: 12-11-72

STRATUM Depth	DESCRIPTION OF MATERIAL	SAMPLE NO & TYPE	SAMPLE DEPTH	BLOWS PER 6" ON SAMPLER	"N" BLOWS /FT OR CORE REC.
0.0'	(Fill) Sand, Gravel and Cinders				
1.0'	(Original) Very Stiff Brown and Gray Clay, some Silt, some Sand, trace of Gravel - Damp	1A	1.0- 2.5'	6-10-16	26
		2A	3.5- 5.0'	7-10-17	27
5.0'					
6.0'	Very Stiff Brown and Gray Silt, some Clay, some Sand, trace of Gravel - Moist (Becomes Hard at 8.5')	3A	6.0- 7.5'	3-7-11	18
10.0'		4A	8.5-10.0'	11-18-22	40
12.0'	Soft Gray Shale				
15.0'		5A	14.5-15.0'	100	100+
	Bottom of Boring at 15.0'				

METHOD: Hollow Auger

TECHNICIAN: BW-JC

JOB NO: 87665

WATER OBSERVATIONS

INITIAL DEPTH: None

COMPLETION DEPTH: None

DEPTH AFTER ____ HRS ____

TYPE SAMPLER

X A. SPLIT SPOON

___ B.

___ C. SHELBY TUBE

LOG OF BORING NO. 1

PROPOSED ADDITIONS, FRUEHAUF CORP. PLANT, AVON LAKE, OHIO

BORING LOCATION: As Shown on Boring Location Plan — DATE STARTED: 12-11-72

SURFACE ELEVATION: Not Taken — DATE COMPLETED: 12-11-72

STRATUM Depth	DESCRIPTION OF MATERIAL	SAMPLE NO & TYPE	SAMPLE DEPTH	BLOWS PER 6" ON SAMPLER	"N" BLOWS /FT OR CORE REC.
0.0'	Topsoil				
0.5'	Stiff Brown and Gray Clay, some Silt, some Sand, trace of Gravel, trace of Organic Material - Moist (Becomes Very Stiff at 3.5')	1A	1.0- 2.5'	5-6-8	14
		2A	3.5- 5.0'	4-8-12	20
5.0'					
6.0'	Very Stiff Gray and Brown Silt, some Clay, trace of Sand, trace of Gravel - Damp	3A	6.0- 7.5'	7-7-16	23
8.5'	Soft Gray Weathered Shale	4A	8.5-10.0'	10-22-50	72
10.0'					
15.0'		5A	14.0-15.0'	63-75/-	138-
	Bottom of Boring at 15.0'				

METHOD: Hollow Auger

TECHNICIAN: BW-JC

JOB NO.: 87665

WATER OBSERVATIONS

INITIAL DEPTH None

COMPLETION DEPTH None

DEPTH AFTER 24 HRS 2.0'

TYPE SAMPLER

X A. SPLIT SPOON

___ B

___ C. SHELBY TUBE

BOWSER – MORNER

LOG OF BORING NO. 2

PROPOSED ADDITIONS, FRUEHAUF CORP. PLANT, AVON LAKE, OHIO

BORING LOCATION: As Shown on Boring Location Plan — DATE STARTED: 12-11-72

SURFACE ELEVATION: Not Taken — DATE COMPLETED: 12-11-72

STRATUM Depth	DESCRIPTION OF MATERIAL	SAMPLE NO & TYPE	SAMPLE DEPTH	BLOWS PER 6" ON SAMPLER	"N" BLOWS /FT OR CORE REC
0.0'	(Fill) Sand, Gravel and Cinders				
1.0'	(Original) Hard Brown Clay, some Silt, some Sand, trace of Gravel, trace of Rock Fragments, trace of Organic Material - Moist (Becomes Very Stiff at 3.5')	1A	1.0- 2.5'	9-16-20	36
5.0'		2A	3.5- 5.0'	5-6-14	20
		3A	6.0- 7.5'	6-11-18	29
10.0'		4A	8.5-10.0'	7-12-16	28
11.5'	Soft Gray Weathered Shale				
15.0'		5A	13.5-15.0'	18-24-50	74
	Bottom of Boring at 15.0'				

METHOD: Hollow Auger

TECHNICIAN: BW-JC

JOB NO. 87665

WATER OBSERVATIONS

INITIAL DEPTH: None

COMPLETION DEPTH: None

DEPTH AFTER ____ HRS ____

TYPE SAMPLER

X A. SPLIT SPOON

___ B

___ C. SHELBY TUBE

BOWSER - MORNER

LOG OF BORING NO. 3

PROPOSED ADDITIONS, FRUEHAUF CORP. PLANT, AVON LAKE, OHIO

BORING LOCATION: As Shown on Boring Location Plan — DATE STARTED: 12-12-72

SURFACE ELEVATION: Not Taken — DATE COMPLETED: 12-12-72

STRATUM Depth	DESCRIPTION OF MATERIAL	SAMPLE NO. & TYPE	SAMPLE DEPTH	BLOWS PER 6" ON SAMPLER	"N" BLOWS /FT OR CORE REC
0.0'	Topsoil				
0.3'	Brown and Gray Clay, some Silt, some Sand, trace of Gravel - Damp	1A	1.0- 2.5'	6-16-24	40
4.5'	Very Stiff Gray Clay and Silt, trace of Sand - Moist	1C	4.0- 6.0'		19"
		2A	6.0- 7.5'	6-6-12	18
10.0'		3A	8.5-10.0'	3-7-11	18
13.0'		4A	13.5-15.0'	4-6-12	18
16.0'	Soft Gray Weathered Shale				
20.0'		5A	18.5-19.0'	100/3"	100+
25.0'		6A	24.5-25.0'	100/3"	100+
	Bottom of Boring at 25.0'				

METHOD: Hollow Auger

TECHNICIAN: EW-JC

JOB NO.: 87663

WATER OBSERVATIONS

INITIAL DEPTH: 0.5'

COMPLETION DEPTH: None

DEPTH AFTER ____ HRS ____

TYPE SAMPLER:

X A. SPLIT SPOON

___ B.

X C. SHELBY TUBE

LOG OF BORING NO. 3A

PROPOSED ADDITIONS, FRUEHAUF CORP. PLANT, AVON LAKE, OHIO

BORING LOCATION: As Shown on Boring Location Plan — DATE STARTED: 12-11-72

SURFACE ELEVATION: Not Taken — DATE COMPLETED: 12-11-72

STRATUM Depth	DESCRIPTION OF MATERIAL	SAMPLE NO & TYPE	SAMPLE DEPTH	BLOWS PER 6" ON SAMPLER	"N" BLOWS /FT OR CORE REC.
0.0'	Topsoil				
0.3'	Hard Brown and Gray Clay, some Silt, some Sand, trace of Gravel, with Rock Fragments - Damp	1A	1.0- 2.5'	12-18-30	48
		2A	3.5- 5.0'	13-27-50	77
5.0'					
5.5'	Very Stiff Gray Clay, some Silt, trace of Sand - Moist	3A	6.0- 7.5'	9-10-13	23
		4A	8.5-10.0'	6-10-14	24
10.0'	Bottom of Boring at 10.0'				

METHOD: Hollow Auger

TECHNICIAN: EW-JC

JOB NO: 87665

WATER OBSERVATIONS

INITIAL DEPTH None

COMPLETION DEPTH None

DEPTH AFTER 24 HRS None

TYPE SAMPLER

X A. SPLIT SPOON

___ B

___ C. 3" SHELBY TUBE

Professional Service Industries, Inc.

RECORD OF SUBSURFACE EXPLORATION

Boring B-28

Project Name: Giffels Associates Date of Boring: May 3, 1988

Site: Ford Motor Company, Ohio Truck Plant Project No.: 142-85054

DESCRIPTION	DEPTH	SAMPLE	N	Q_u	Q_p	M_c	REMARKS
SURFACE							
14.0" Black Topsoil, Sand & Gravel, Fill		1AU					
Brn. Silty Clay, Trace Rock Frags., Moist, V/Stiff. (CL)							
	5	2SS	9-10		3.75		
							▼ Encounter @ 7.3'
Gray Silty Clay, Some Shale Frags., Trace Sand, Moist, Stiff. (CL)	10	3SS	6-8		1.75		
End of Boring - 10.0'							Completion Dry

... Service Industries, Inc.

RECORD OF SUBSURFACE EXPLORATION

Boring B-29

Project Name: Giffels Associates Date of Boring: May 3, 1988

Site: Ford Motor Company, Ohio Truck Plant Project No.: 142-85054

DESCRIPTION	DEPTH	SAMPLE	N	Q_u	Q_p	M_c	REMARKS
10.0" Asphalt SURFACE Gravel, Fill							
Gray Silty Clay, Trace Rock Frags., Moist, Stiff. (CL)		1AU					Dry
	5	2SS	3-4		1.0		
Gray Silty Clay, Trace Shale, Frags., Trace Sand, Moist, Stiff. (CL)	10	3SS	7-7		1.75		
End of Boring - 10.0'							

Professional Service Industries, Inc.

RECORD OF SUBSURFACE EXPLORATION

Boring B-30

Project Name: Giffels Associates Date of Boring: May 3, 1988

Site: Ford Motor Company, Ohio Truck Plant Project No.: 142-85054

DESCRIPTION	DEPTH	SAMPLE	N	Q_u	Q_p	M_c	REMARKS
SURFACE							
10.0" Topsoil							
Brn. Silty Clay W/Sand, Trace Gravel Trace Cinders, Moist, Stiff to V/ Stiff. Fill. (CL)		1SS	2-2		1.0-2.25		No Water Encountered
Brn. & Gray Silty Clay, Trace Rock Frags., Moist, Hard. (CL)	5	2SS	13-19		4.5+		
	10	3SS	20-24		4.5		
End of Boring - 10.0'							

Professional Service Industries, Inc.

RECORD OF SUBSURFACE EXPLORATION

Boring B-31

Project Name: Ohio Truck Plant, Ford Motor Company Date of Boring February 27, 1989

Site: Avon Lake, Ohio Project No.: 142-85054

DESCRIPTION	DEPTH	SAMPLE	N	Q_u	Q_p	M_c	REMARKS
SURFACE							
Brown Silty Clay, Few Seams of Gray Silty Clay, Some Sand, Few Shale Frags., Moist, V/Stiff. (CL)		1SS	3-3				No Water Encountered
		2SS	4-6				
	5						
	10						
		3SS	50/6"				
		4SS	50/1"				
Weathered Gray Shale	15						
		5SS	50/1"				
		6SS	50/1"				
	20						
							Water @ 22.0' 3/1/89
Gray Shale	25						
	30						
		7SS	50/1"				
	35						
Core Data: Recovery: 93% Longest Piece: 4.0" R.Q.D.: 1%		8NX					
Gray Shale							
End of Boring - 40.0'	40						

Professional Service Industries, Inc.

RECORD OF SUBSURFACE EXPLORATION

Boring B-36 TE 609.0 ±

Project Name Ohio Truck Plant, Ford Motor Company Date of Boring Jan 11, 1988

Site Avon Lake, Ohio Project [illegible]

DESCRIPTION	DEPTH	SPT	N	q_u	q_p	M_c	REMARKS
[illegible]							
Brown Silty Clay w Many Gray Silty Clay Layers, Few Seams of Brown Clayey Sand, Moist To Wet, V. Stiff. (CL)	5	1.55	3-4		2.0		Encountered & Completion @ 2.5'
		1.55	8-10		2.75		
		1.55	50/0"				
End of Boring - 8.5'	10						
*Black Shale.							
Note: Auger & Split-Spoon Refusal @ 8.5' 0" Recovery							

APPENDIX G

WELL LOGS OF THE AREA OF THE SITE

WELL LOG AND DRILLING REPORT

W1

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER

DO NOT USE INK.

non-responsive

County LORAIN Township SHEFFIELD Section of Township

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 23

Type of screen _____ Length of screen _____

Type of pump _____

Capacity of pump _____

Depth of pump setting _____

Date of completion _____

BAILING OR PUMPING TEST

Pumping Rate _____ G.P.M. Duration of test _____ hrs.

Drawdown _____ ft. Date _____

Static level-depth to water _____ ft.

Quality (clear, cloudy, taste, odor) _____

Pump installed by _____

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
YELLOW CLAY	0 Feet	15 Ft.
BLACK SHALE	15	57
GREY SHALE	57	62
DRY HOLE		
SMALL AMOUNT OF GAS AT 57'		
WELL PULLED & FILLED		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

non-responsive

W.

S.

See reverse side for instructions

Drilling Firm BERN SCHUSTER Date 11-15-65

Address ELYRIA Signed B. Schuster

*If additional space is needed to complete well log, use next consecutive numbered form.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

[redacted]

County Lorain Township Sheffield Section of Township

[redacted]

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 26
Type of screen Length of screen
Type of pump
Capacity of pump
Depth of pump setting
Date of completion 4-24-58

BAILING OR PUMPING TEST

Pumping rate 8 G.P.M. Duration of test hrs.
Drawdown ft. Date
Developed capacity
Static level—depth to water ft.
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Clay		25
Shale	25	90

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

[redacted]

See reverse side for instructions

Drilling Firm Wm Diederich & Sons Date 4-28-58
Address Nr. Ridgeville O. Signed Leonard Diederich

W3 ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

non-responsive

County Lorain Township Sheffield Section of Township

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 90
Type of screen Length of screen
Type of pump
Capacity of pump
Depth of pump setting
Date of completion

BAILING OR PUMPING TEST

Pumping rate 10 G.P.M. Duration of test hrs.
Drawdown ft. Date
Developed capacity
Static level—depth to water ft.
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Clay		6
Shale	6	45
water in Shale		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

non-responsive

Drilling Firm Wm Diederich & Son
Address Ridgeville O

Date 3-7-57
Signed Wm Diederich

RECEIVED

PLEASE USE PENCIL
OR TYPEWRITER.
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

non-responsive

County LORAIN Township AVON Section of Township

non-responsive

CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
Casing diameter 5 5/8 Length of casing PULLED	Pumping rate 1 G.P.M. Duration of test hrs.
Type of screen — Length of screen	Drawdown 50 ft. Date
Type of pump	Developed capacity 1 GPM SULPHER
Capacity of pump	Static level—depth to water ft.
Depth of pump setting	Pump installed by
Date of completion 10-19-59	

WELL LOG			SKETCH SHOWING LOCATION
Formations Sandstone, shale, limestone, gravel and clay	From	To	Locate in reference to numbered State Highways, St. Intersections, County roads, etc.
CLAY	0 Feet	7 Ft.	
SAND	7	10	
SHALE DARK	10	48	
" LIGHT	48	50	
WATER AT 20 + 38			
WATER SULPHUR			

non-responsive

See reverse side for instructions

Drilling Firm BERN SCHUSTER Date 10-19-59

Address ELYRIA O Signed B. Schuster

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

non-responsive

County Lorain Township Sheffield Section of Township or Lot Number Sheffield

non-responsive

CONSTRUCTION DETAILS well #1	PUMPING TEST
Casing diameter 5 5/8 Length of casing 21	Pumping rate ..... G.P.M. Duration of test ..... hrs.
Type of screen ..... Length of screen	Drawdown ..... ft. Date .....
Type of pump 5 5/8 well #2 23	Developed capacity .....
Capacity of pump	Static level—depth to water ..... ft.
Depth of pump setting	Pump installed by .....

WELL LOG			SKETCH SHOWING LOCATION
Formations Sandstone, shale, limestone, gravel and clay	From	To	Locate in reference to numbered State Highways, St. Intersections, County roads, etc.
well #1	0 Feet	Ft.	non-responsive
Clay		14	
Shale	14	70	
well #2			
Clay		14	
Shale	14	60	
water in Shale			

625
14
611

See reverse side for instructions

Drilling Firm Wm Friederich & Son Date 8-20-45

Address R.D. Ridgeville Signed Wm Friederich

PLEASE USE PENCIL OR TYPEWRITER

DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

non-responsive

County LORAIN Township AVON Section of Township

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 23

Type of screen — Length of screen

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST

Pumping Rate 40+ G.P.M. Duration of test 1/4 hrs.

Drawdown 15 ft. Date

Static level-depth to water 10' ft.

Quality (clear, cloudy, taste, odor)

TRACE OF GAS

Pump installed by OWNER

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
YELLOW CLAY	0 Feet	9 Ft.
BLUE CLAY & SAND	9	15
SAND	15	17
DARK SHALE	17	50
WATER	42'	
GAS WITH WATER		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

non-responsive

W

See reverse side for instructions

Drilling Firm BERN SCHUSTER Date 4-29-68

Address ELYRIA O Signed B Schuster

*If additional space is needed to complete well log, use next consecutive numbered form.

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

non-responsive

County LORAIN Township AVON LAKE Section of Township

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST

Pumping Rate 7 G.P.M. Duration of test 12 hrs.

Drawdown 60 ft. Date

Static level-depth to water 5 ft.

Quality (clear, cloudy, taste, odor) NOSOLIDS & CLEARING

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
CLAY	0 Feet	5 Ft.
SHALE LIGHT	5	14
DARK SHALE	14	61
WATER APPOX 39' IN SHALE		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W

non-responsive

See reverse side for instructions

Drilling Firm BERN SCHUSTER Date 7-14-64

Address ELYRIA Signed B. Schuster

34

non-responsive

Ohio
URAL RESOURCES
Water
Ohio

[redacted]

County Gorans Township Section of Township or Lot Number Cuvers

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 10

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs

Drawdown ft. Date

Developed capacity

Static level—depth to water ft.

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Clay		5
Black Shale	5	50
water in Shale		

5

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

non-responsive

[redacted]

See reverse side for instructions

Drilling Firm Wm Friedrich & Son Date 6-27-51

Address Ne Ridgeville O Signed Wm Friedrich

38

W9

ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER
DO NOT USE INK

non-responsive

County LORAIN Township AVON Section of Township

Ow[redacted]

Lo[redacted]

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing

ype of screen Length of screen

Type of pump SUB

apacity of pump

Depth of pump setting 85'

ate of completion 7-16-66

BAILING OR PUMPING TEST

Pumping Rate 3 G.P.M. Duration of test 1 hrs.

Drawdown ft. Date

Static level-depth to water ft.

Quality (clear, cloudy, taste, odor)

NO DOOR CLEARING

Pump installed by PUMP LOWERED 42'

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
WELL DRILLED DEEPER		
FOR MORE RESERVE		
LIGHT SHALE	40	45
RED "	45	100
WATER IN STONE		
APPROX 20'	3 GPM	
4" LINER	40 - 100'	
NO WATER BELOW 40'		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

non-responsive

[redacted]

See reverse side for instructions

Drilling Firm BERN SCHUSTER Date 7-19-66

Address ELYRIA Signed B Schuster

*If additional space is needed to complete well log, use next consecutive numbered form.

non-responsive

State of Ohio
ENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

non-responsive

County LORAIN Township AVON Section of Township or Lot Number

non-responsive

CONSTRUCTION DETAILS

Casing diameter ..... Length of casing —

Type of screen ..... Length of screen —

Type of pump .....

Capacity of pump .....

Depth of pump setting .....

PUMPING TEST

Pumping rate — G.P.M. Duration of test ..... hrs

Drawdown ..... ft. Date .....

Developed capacity .....

Static level—depth to water DRY ft.

Pump installed by .....

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
CLAY	0 Feet	8 Ft.
BLACK SHALE	8	80
DRY HOLE		
DRY		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N

non-responsive

See reverse side for instructions

Drilling Firm L. SCHUSTER & SON Date 9-7-55

Address ELYRIA O Signed [illegible]

58

W11

non-responsive

State of Ohio
WATER RESOURCES BOARD
Department of Public Works
E. Broad St., Columbus 15, Ohio

non-responsi [redacted]

County LORAIN Township AVON Section of Township or Lot Number

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 10

Type of screen NONE Length of screen

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate — G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level of completed well 5 ft.

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
CLAY	0 Feet	7 Ft.
SHALE, DARK	7	45
WATER IN SHALE		

5

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

non-responsive

[redacted]

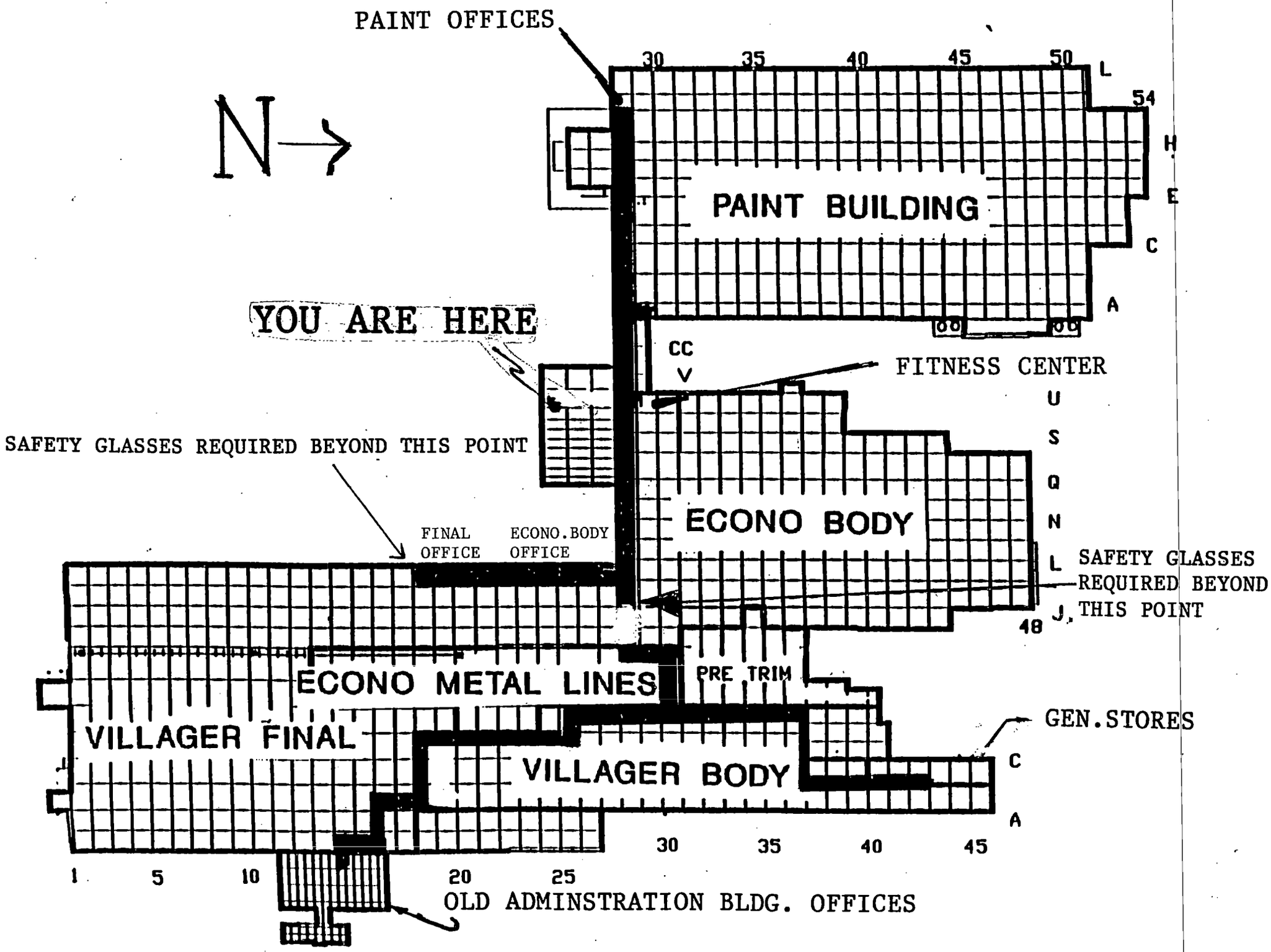
S.

See reverse side for instructions

Drilling Firm L SCHUSTER & SON Date 1 - 19 - 50

Address ELYRIA O Signed B Schuster

59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SAFETY GLASSES REQUIRED BEYOND THIS POINT
FINAL OFFICE
ECONO.BODY OFFICE
ECONO BODY
SAFETY GLASSES REQUIRED BEYOND THIS POINT
ECONO METAL LINES
PRE TRIM
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VILLAGER FINAL
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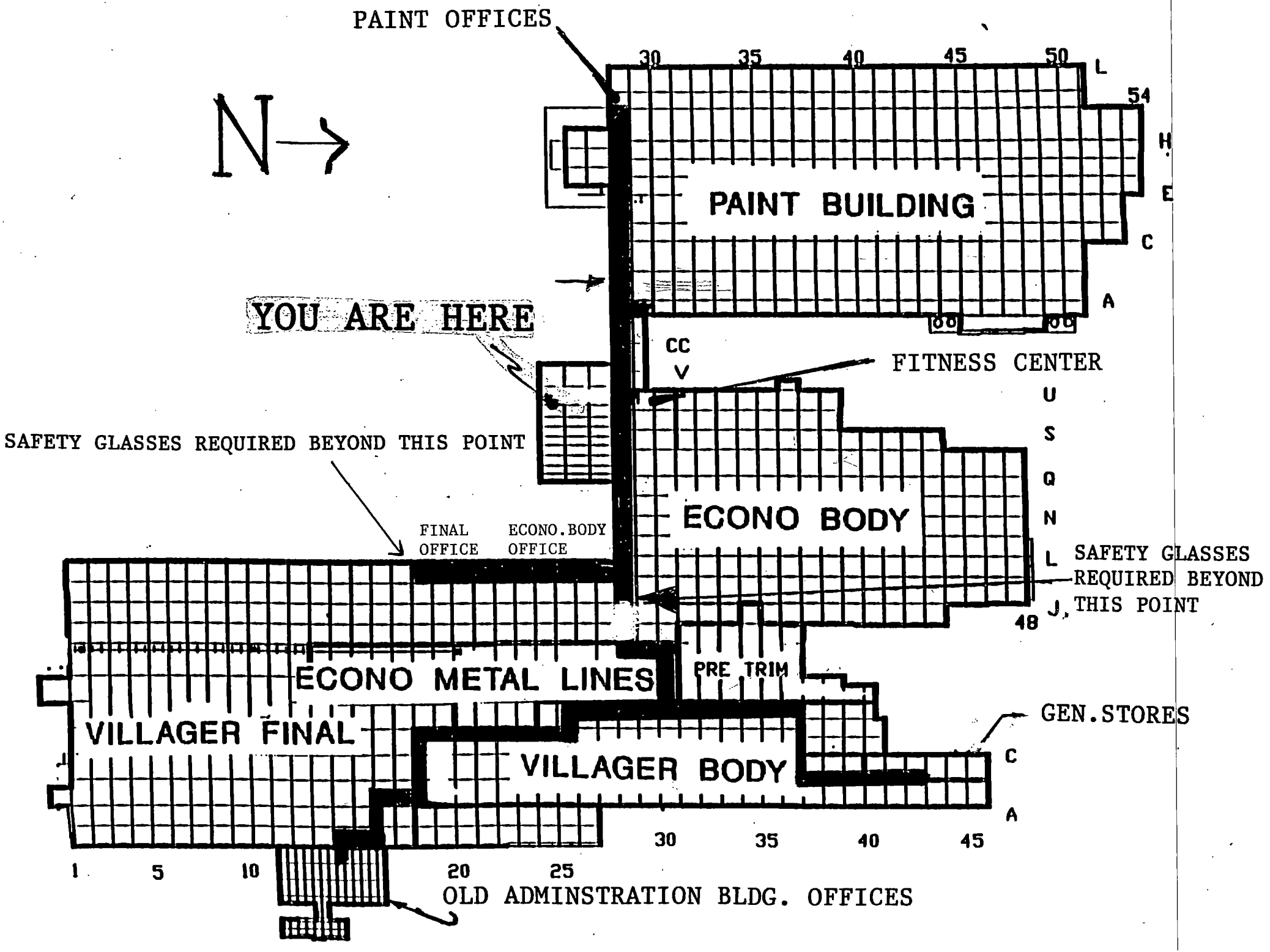
OLD ADMINSTRATION BLDG. OFFICES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SAFETY GLASSES REQUIRED BEYOND THIS POINT
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ECONO.BODY OFFICE
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SAFETY GLASSES REQUIRED BEYOND THIS POINT
ECONO METAL LINES
PRE TRIM
GEN.STORES
VILLAGER FINAL
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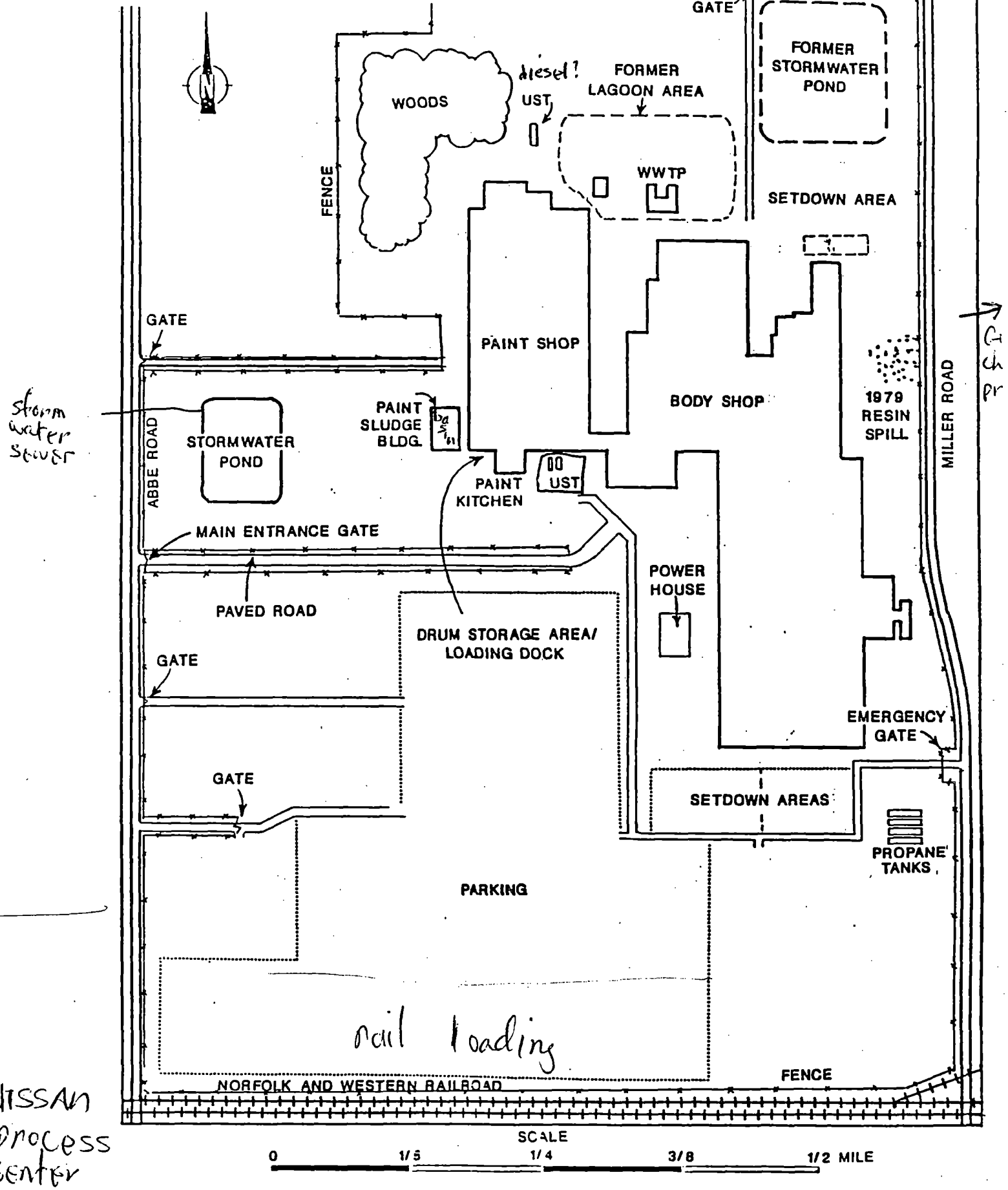
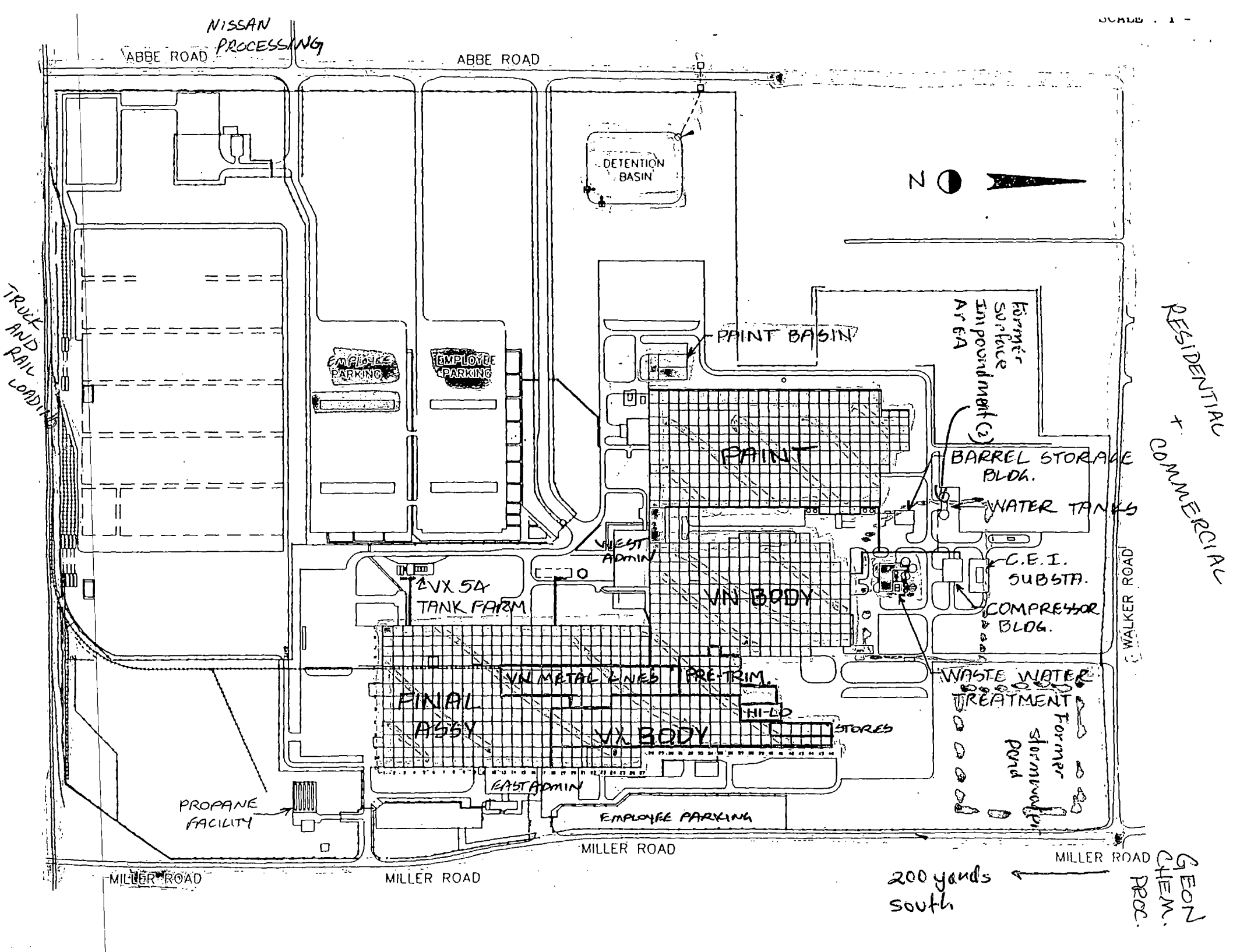
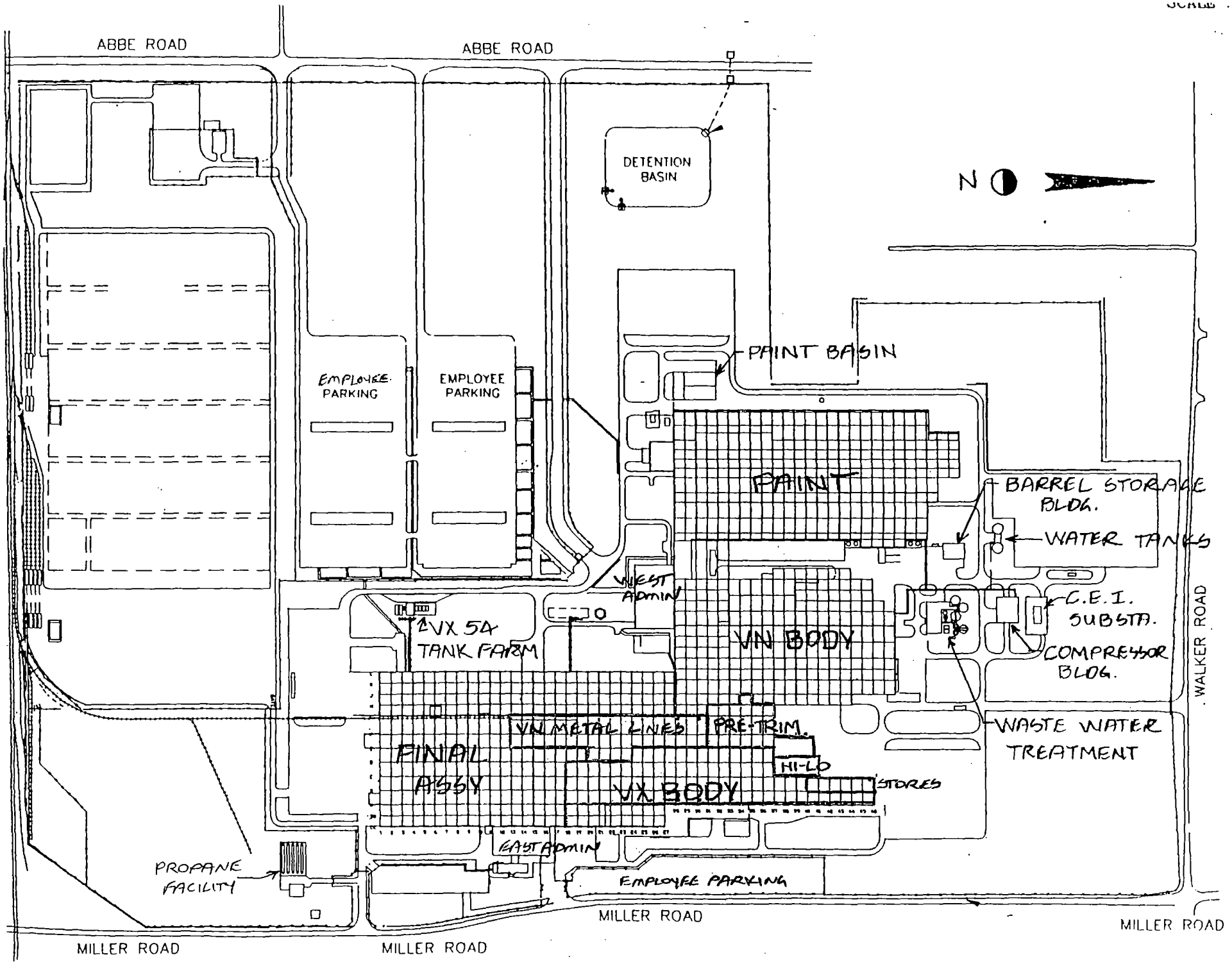
25
OLD ADMINSTRATION BLDG. OFFICES

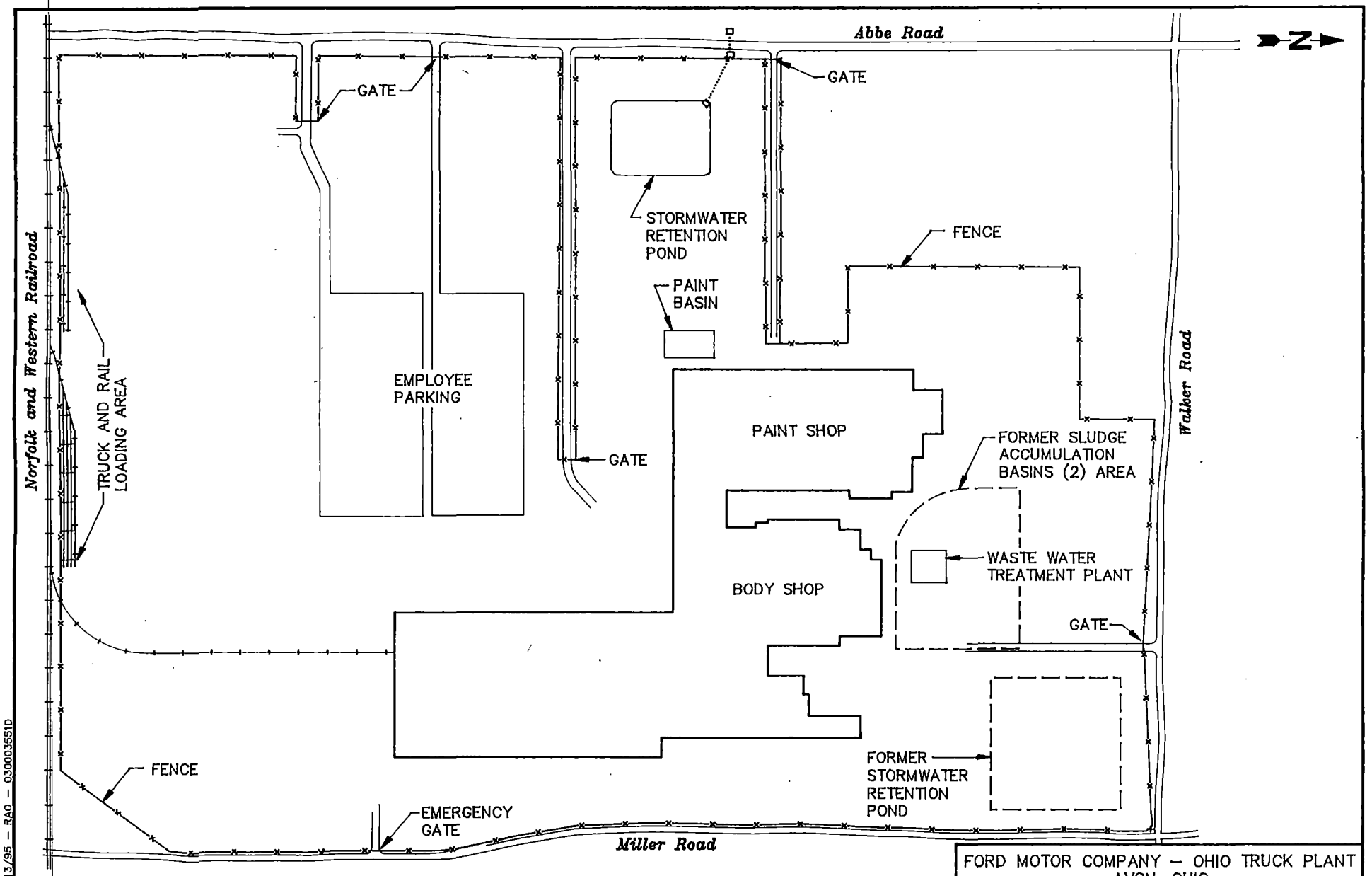


NISSAN process center (inspection trim)

FIGURE 3-1 SITE FEATURES


NISSAN PROCESSING
ABBE ROAD
ABBE ROAD
DETENTION BASIN
N
TRUCK AND RAIL LOADING
EMPLOYEE PARKING
EMPLOYEE PARKING
PAINT BASIN
Former Surface Impoundment (2) Area
PAINT
BARREL STORAGE BLDG.
WATER TANKS
WEST ADMIN
C.E.I. SUBSTA.
VX 54 TANK FARM
VN BODY
COMPRESSOR BLDG.
WALKER ROAD
VN METAL LINES
PRE-TRIM.
WASTE WATER TREATMENT
FINAL ASSY
HI-LO
VX BODY
STORES
Former stormwater pond
EAST ADMIN
PROPANE FACILITY
EMPLOYEE PARKING
MILLER ROAD
MILLER ROAD
MILLER ROAD
MILLER ROAD
200 yards south
RESIDENTIAL + COMMERCIAL
GEON CHEM. PROC.


ABBE ROAD
ABBE ROAD
DETENTION BASIN
N
EMPLOYEE PARKING
EMPLOYEE PARKING
PAINT BASIN
PAINT
BARREL STORAGE BLDG.
WATER TANKS
WEST ADMIN
VX 5A TANK FARM
VN BODY
C.E.I. SUBSTA.
COMPRESSOR BLDG.
WALKER ROAD
VN METAL LINES
PRE-TRIM
WASTE WATER TREATMENT
FINAL ASSY
HI-LO
VX BODY
STORES
EAST ADMIN
PROPANE FACILITY
EMPLOYEE PARKING
MILLER ROAD
MILLER ROAD
MILLER ROAD



FORDOHIO.DWG – 06/13/95 – RAO – 0300035510

SOURCE: MODIFIED FROM

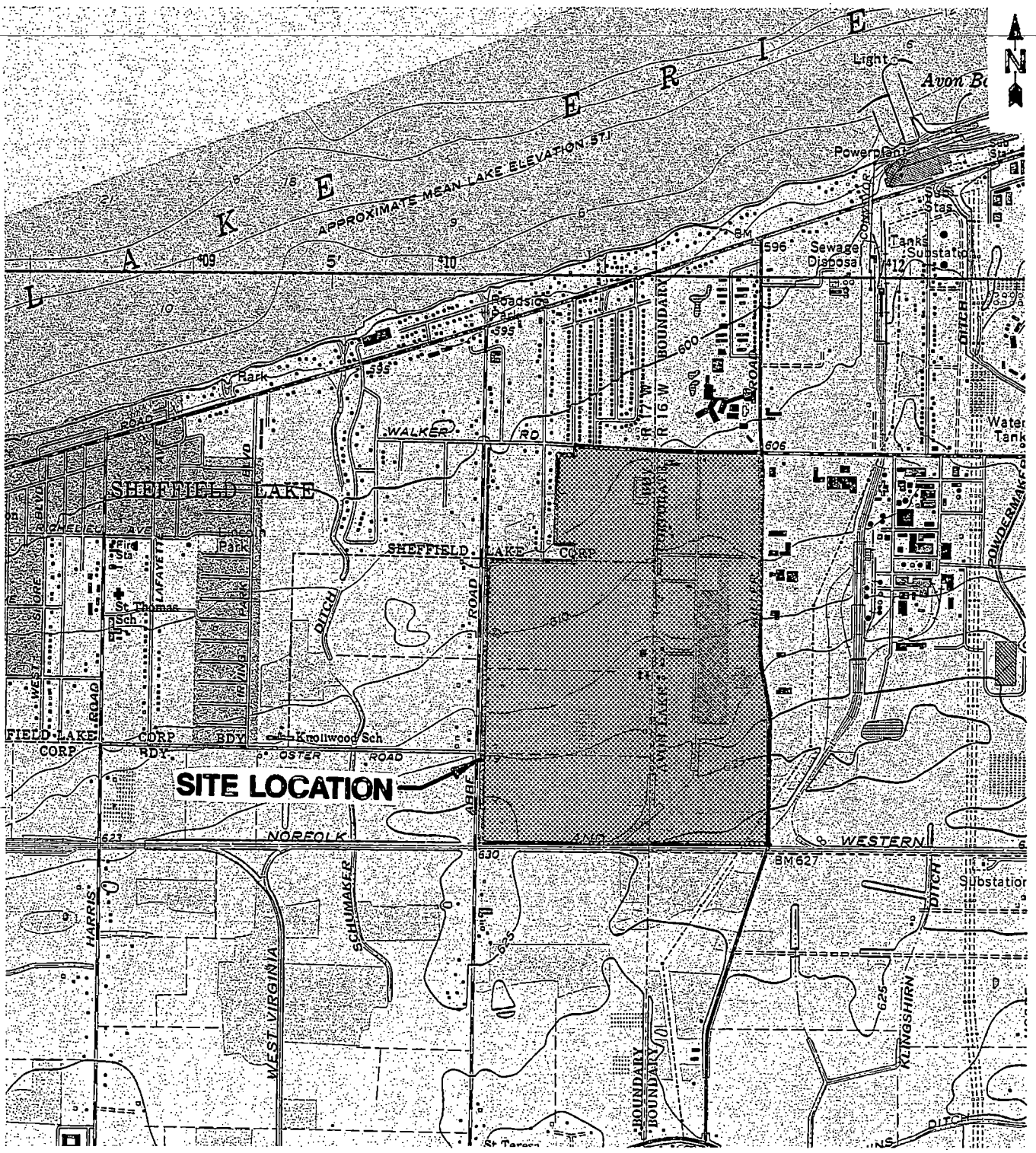
NOT TO SCALE

FORD MOTOR COMPANY – OHIO TRUCK PLANT
AVON, OHIO

FIGURE 2

SITE LAYOUT

PRC ENVIRONMENTAL MANAGEMENT, INC.



SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

SCALE: 1" = 2,000'

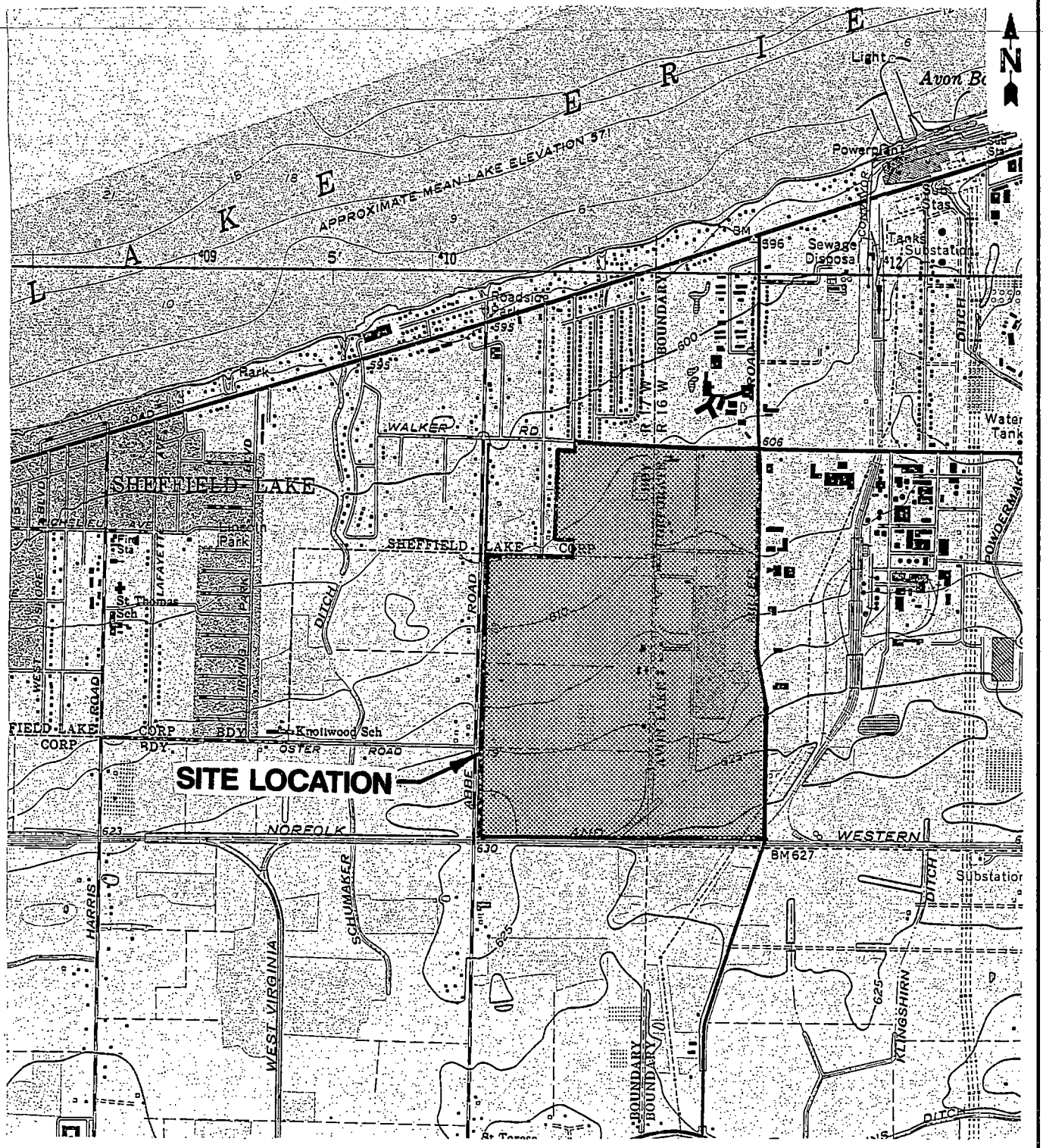
QUADRANGLE LOCATION

FORD MOTOR COMPANY – OHIO TRUCK PLANT
AVON, OHIO

FIGURE 1
SITE LOCATION

PRC ENVIRONMENTAL MANAGEMENT, INC.

SOURCE: MODIFIED FROM USGS, AVON, OHIO, QUADRANGLE, 1979

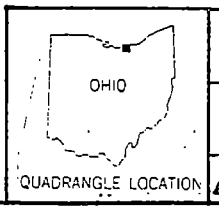


SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

SCALE: 1" = 2,000'



FORD MOTOR COMPANY – OHIO TRUCK PLANT
AVON LAKE, OHIO

FIGURE 1
SITE LOCATION

PRC ENVIRONMENTAL MANAGEMENT, INC.

SOURCE: MODIFIED FROM USGS, AVON, OHIO, QUADRANGLE, 1979

PRC Environmental Management, Inc.
200 East Randolph Drive
Suite 4700
Chicago, IL 60601
312-856-8700
Fax 312-938-0118

PRC

RECEIVED
JUL 10 1995
SITE ASSESSMENT SECTION

July 6, 1995

Ms. Jeanne Griffin
U.S. Environmental Protection Agency
Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Subject: **Ford Motor Company - Ohio Truck Plant (Ford) Site**
Avon Lake, Lorain County, Ohio
EPA ID No. OHD 020 626 669
Focused Site Inspection Prioritization
Contract No. 68-W8-0084, Work Assignment No. 35-5JZZ

Dear Ms. Griffin:

PRC Environmental Management, Inc. (PRC), has prepared the site evaluation report (SER) for the above-referenced site (Enclosure 1). PRC reviewed available information, conducted a site reconnaissance, and prepared a preliminary Hazard Ranking System (HRS) score for the Ford site. Based on PRC's findings, the preliminary HRS score for the site is less than 28.50. Therefore, PRC recommends that the site receive a no further action (NFA) designation.

Photographs taken during the site reconnaissance are included in the appendix of the SER. The U.S. Environmental Protection Agency (EPA) recommendation form is included in Enclosure 2. The Ford site preliminary HRS score is documented in a transmittal memorandum and preliminary scoresheets in Enclosure 3.

If you have any questions, please call me at 312/856-8700.

Sincerely,

Christopher Scott

Christopher Scott
Project Manager

Enclosures (3)

cc: Thomas Short, EPA Project Officer (letter only)
Brigitte Manzke, EPA Contracting Officer (letter only)
Bob Princic, Ohio Environmental Protection Agency (OEPA) Northeast District Office
Majid Chaudhry, PRC Program Manager (letter only)

contains recycled fiber and is recyclable

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

HFM-5J

May 23, 1995

Mr. Ted Scharber
Ford Motor Company Ohio Truck Plant
650 Miller Road
Avon Lake, Ohio 44012

Subject: **Ford Motor Company Ohio Truck Plant**
EPA Identification No. OHD 020 626 669

Dear Mr. Scharber:

PRC Environmental Management, Inc. (PRC), has been retained by the U.S. Environmental Protection Agency (EPA) Region 5 under Contract No. 68-W8-0084 to evaluate and assess candidate sites for the National Priorities List under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). PRC is conducting these evaluations under my supervision. As part of these evaluations, EPA has requested that PRC conduct a site reconnaissance inspection at the above-referenced site to assess current site conditions.

If you have any questions, please call me at (312) 886-3007.

Sincerely,

Jeanne Griffin

Jeanne Griffin
EPA Work Assignment Manager

cc: Kevin Kimball, Ford Motor Company
Christopher Scott, PRC
Nick Nigro, PRC

Printed on Recycled Paper

OHIO ENVIRONMENTAL PROTECTION AGENCY

FILED

1994 GENERATOR ANNUAL HAZARDOUS WASTE REPORT

For the calendar year ending December 31,1994

The information requested herein is required by Rules 3745-52-41 as applicable of the Ohio Administrative Code.

REFER TO THE SPECIFIC INSTRUCTIONS CONTAINED IN THIS BOOKLET BEFORE COMPLETING THIS FORM.

Please print/type with elite type (12 characters per inch)

LABEL BELOW IS FOR REFERENCE ONLY; SECTIONS I. THROUGH VII. MUST BE COMPLETED.

OHD020626669-EPA ID. SIC CODE-3711
FORD MOTOR COMPANY OHIO ASSEMBLY PLANT
650 MILLER ROAD
AVON LAKE OH 44012-
SHARBER TED M. (216)933-1379

I. GENERATOR'S EPA I.D. NUMBER

OHD020626669

II. NAME OF INSTALLATION

FORD MOTOR COMPANY OHIO ASSEMBLY PLANT

III. INSTALLATION MAILING ADDRESS

650 MILLER ROAD

Street or P.O. Box

AVON LAKE | OH | 44012-

City or Town | State | Zip Code

IV. LOCATION OF INSTALLATION

650 MILLER ROAD | 47

Street | County Code

AVON LAKE | OH | 44012 | 3711

City or Town | State | Zip Code | Primary SIC Code

V. INSTALLATION CONTACT

SHARBER TED | 216-933-1379

Name (last and first) | Phone No. (area code & no.)

VI. TRANSPORTATION SERVICES USED

(list the name and EPA identification numbers of all hazardous waste transporters whose services were used during the reporting year.)

CHEMICAL WASTE MANAGEMENT-ILD099202681
HAZMAT ENVIRO. GROUP-NYD980769947
SAFETY KLEEN CORP-ILD984908202
MARINE POLLUTION CONTROL-MID049277718
WILLS TRUCKING, INC.-OHD068913409
J.B. HUNT SPEC. COMM.-ARD981908551
DRURY BROTHERS-MID056988892
HAROLD MARCUS LTD-MIT270012321

VII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

DEBORAH S. KENT, PLANT MANAGER

Print/Type Name | Title | Signature of Authorized Representative | Date Signed

EPA 9019

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.
OHD020626669

IX. FACILITY'S EPA I.D.NO.
MID000724831

X. FACILITY NAME
ENVOTECH MANAGEMENT SERVICES

XI. FACILITY'S ADDRESS

49350 NORTH I-94 SERVICE DRIVE
Street

BELLEVILLE — City or Town
MI — State
48111 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS	C. EPA HAZARDOUS WASTE CODE (see Instructions)	D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	HAZARDOUS WASTE SOLID E-COAT FILTERS	9 0	D008	157500	P
2					
3					
4					
5					
6					
7					
8					

XIII. COMMENTS (enter information by section number)
SECTION XII, LINE 1: 500LB/DRUM X 35 DRUMS.
70 CU YD, 1 CU YD = 1 TON

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.
OHD020626669

IX. FACILITY'S EPA I.D.NO.
TND000772186

X. FACILITY NAME
CHEMICAL WASTE MANAGEMENT

XI. FACILITY'S ADDRESS

5485 TAY-FOR ROAD
Street

MILLINGTON — City or Town
TN — State
38053 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS	C. EPA HAZARDOUS WASTE CODE (see instructions)	D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	WASTE MERCURY IN MANUFACTURED ARTICLES	80	D009	200	P
2					
3					
4					
5					
6					
7					
8					

XIII. COMMENTS (enter information by section number)
SECTION XII, LINE 1: IGNITRON TUBES IN DRUMS, 100LB/DRUM.

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.
OHD020626669

IX. FACILITY'S EPA I.D.NO. KYD053348108

X. FACILITY NAME SAFETY KLEEN CORPORATION

XI. FACILITY'S ADDRESS

3700 LAGRANGE ROAD
Street

SMITHFIELD — City or Town
KY — State
40068 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS		C. EPA HAZARDOUS WASTE CODE (see instructions)		D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	SPENT ALIPHATIC AND AROMATIC HYDROCARBONS	3	O	D001		4768	P
~~2~~	AUTO SEALER LIQUID						
2	WASTE PAINT RELATED PRIMER	3	O	F005 F003	D001 D035	10988	P
~~3~~ 3	SPENT ALIPHATIC AND AROMATIC HYDROCARBONS	3	O	F003		756	P
~~5~~	CLEARCOAT						
~~4~~ 4	SPENT ALIPHATIC AND AROMATIC HYDROCARBONS	3	O	D001		655	P
~~6~~	CONTAMINATED PART WASH						
~~7~~							

XIII. COMMENTS (enter information by section number) SECTION XI: FACILITY ADDRESS CHANGE, EPA I.D. NO. THE SAME.
SECTION XII, LINE 1: 550 GAL x 8.67 LB/GAL.
LINE 2: 1305 GAL x 8.42 LB/GAL
LINE 3: 100 GAL x 7.56 LB/GAL
LINE 4: 100 GAL x 6.55 LB/GAL

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.
OHD020626669

IX. FACILITY'S EPA I.D.NO.
KYD053348108

X. FACILITY NAME
SAFETY KLEEN CORPORATION

XI. FACILITY'S ADDRESS

3700 LAGRANGE ROAD
Street

SMITHFIELD — City or Town
KY — State
40068 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS	C. EPA HAZARDOUS WASTE CODE (see instructions)	D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	SPENT ALIPHATIC AND AROMATIC HYDROCARBONS	30	D001	900	P
X	GREASE				
2/3	HAZARDOUS WASTE LIQUID E-COAT	90	D018	221	P
3/4	SPENT ALIPHATIC AND AROMATIC HYDROCARBONS	30	F001	861	P
X	STORES LIQUID				
4/6	WASTE ACETONE AND METHANOL FLUIDS QUALITY	30	F003 D001	1320	P
5/7	SPENT ALIPHATIC AND AROMATIC HYDROCARBONS	30	D001 D008 D039	1702	P
X	AUTO FLUID WASTE				

XIII. COMMENTS (enter information by section number) SECTION XI: FACILITY ADDRESS CHANGE, EPA I.D. Nº. THE SAME.
SECTION XII, LINE 1: 300 LB/DRUM x 3 DRUMS
LINE 2: 20 GAL x 11.05 LB/GAL
LINE 3: 100 GAL x 8.61 LB/GAL
LINE 4: 200 GAL x 6.6 LB/GAL
LINE 5: 200 GAL x 8.51 LB/GAL

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO. OHD020626669

IX. FACILITY'S EPA I.D.NO. KYD053348108

X. FACILITY NAME SAFETY KLEEN CORPORATION

XI. FACILITY'S ADDRESS

3700 LAGRANGE ROAD
Street

SMITHFIELD — City or Town
KY — State
40068 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS	C. EPA HAZARDOUS WASTE CODE (see instructions)	D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	DIETHYLENE GLYCOL BUTYL ETHER	30	D001	1275	P
2	WASTE METHANOL CARTS	30	F003	1601	P
3	WASTE DICHLOROMETHANE STRIPPER	61	F002	1310	P
4	SPENT ALIPHATIC AND AROMATIC HYDROCARBONS	30	D018	2334	P
X	THINNER				
5/6	HAZARDOUS WASTE LIQUID TRENCH DRAIN	90	D018	12155	P
6/7	WASTE METHANOL TNK FARM REPAIR HOLE	30	F003	2688	P
X					

XIII. COMMENTS (enter information by section number) SECTION XI: FACILITY ADDRESS CHANGE, EPA I.D. NO. THE SAME.
SECTION XII, LINE 1: 150 GAL X 8.5 LB/GAL
LINE 2: 240 GAL X 6.67 LB/GAL
LINE 3: 150 GAL X 8.73 LB/GAL
LINE 4: 350 GAL X 6.67 LB/GAL
LINE 5: 1430 GAL X 8.5 LB/GAL
LINE 6: 400 GAL X 6.67 LB/GAL

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.
OHD020626669

IX. FACILITY'S EPA I.D.NO.
KYD053348108

X. FACILITY NAME
SAFETY KLEEN CORPORATION

XI. FACILITY'S ADDRESS

3700 LAGRANGE ROAD
Street

SMITHFIELD — City or Town
KY — State
40068 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS	C. EPA HAZARDOUS WASTE CODE (see instructions)	D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	WASTE GASOLINE	30	D018 D001	727	P
2	SPENT ALIPHATIC AND AROMATIC HYDROCARBONS	30	D018	1454	P
~~3~~	~~KEROSENE~~				
3/4	WASTE PAINT RELATED MATERIAL	30	D001 D005 D007 D008	10282	P
4/5	WASTE WAX	30	D001 D008 D007	7420	P
6					
7					
8					

XIII. COMMENTS (enter information by section number) SECTION XI: FACILITY ADDRESS CHANGE, EPA I.D. Nº. THE SAME.
SECTION XII, LINE 1: 100 GAL X 7.27 LB/GAL
LINE 2: 200 GAL X 7.27 LB/GAL
LINE 3: 1360 GAL X 7.56 LB/GAL
LINE 4: 850 GAL X 8.73 LB/GAL

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.
OHD020626669

IX. FACILITY'S EPA I.D.NO.
TXD077603371

X. FACILITY NAME
SAFETY KLEEN CORPORATION

XI. FACILITY'S ADDRESS

1722 COOPER CREEK ROAD
Street

DENTON — City or Town
TX — State
76208 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS	C. EPA HAZARDOUS WASTE CODE (see instructions)	D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	HAZARDOUS WASTE SOLID DEBRIS	90	D008	300	P
2	HAZARDOUS WASTE LIQUID TRASH SCREEN	90	D008	1,450	P
3					
4					
5					
6					
7					
8					

XIII. COMMENTS (enter information by section number)
SECTION XII; LINE 1: 300LB/DRUM x 1 DRUM
LINE 2: 950 GAL x 8.5 LB/GAL

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.

OHD020626669

IX. FACILITY'S EPA I.D.NO.

OHD980587736A

X. FACILITY NAME

SAFETY KLEEN CORPORATION

XI. FACILITY'S ADDRESS

581 MILLIKEN DRIVE SE

Street

HEBRON — City or Town

OH — State

43025 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS		C. EPA HAZARDOUS WASTE CODE (see instructions)		D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	SPENT PETROLEUM NAPTHA LIQUID	3	0	D001	D018	10310	P
				D039			
2							
3							
4							
5							
6							
7							
8							

XIII. COMMENTS (enter information by section number)

SECTION XII, LINE 1: 1570 GAL x 6.55 LB/GAL, RECLAIMED OFFSITE AND REUSED.

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.

OHD020626669

IX. FACILITY'S EPA I.D.NO.

OHD000720987

X. FACILITY NAME

SAFETY KLEEN CORPORATION

XI. FACILITY'S ADDRESS

1169 INDUSTRIAL PARKWAY

Street

BRUNSWICK — City or Town

OH — State

44212 — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS	C. EPA HAZARDOUS WASTE CODE (see instructions)	D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	SPENT PETROLEUM NAPTHA LIQUID	30	D001 D018 D039	2122	P
2					
3					
4					
5					
6					
7					
8					

XIII. COMMENTS (enter information by section number)

SECTION XII, LINE 1: 322 GAL X 6.55 LB/GAL, RECLAIMED OFFSITE AND REUSED.

OHIO ENVIRONMENTAL PROTECTION AGENCY

GENERATOR ANNUAL HAZARDOUS WASTE REPORT (cont.)

For the calendar year ending December 31, 1994

FACILITY INFORMATION
(specify receiving facility to which all wastes on this page were sent)

VIII. GENERATOR'S EPA I.D. NO.
OHD002062669

IX. FACILITY'S EPA I.D.NO.
MID005338801

X. FACILITY NAME
GAGE PRODUCTS COMPANY

XI. FACILITY'S ADDRESS

821 WANDA AVENUE
Street

FERNDALE — MI — 48220
City or Town — State — Zip Code

XII. WASTE IDENTIFICATION

LINE	A. DESCRIPTION OF WASTE	B. DOT HAZARD CLASS		C. EPA HAZARDOUS WASTE CODE (see instructions)		D. AMOUNT OF WASTE	E. UNIT OF MEASURE
1	WASTE BUTYL ACETATE XYLENE SOLVENT	3	0	D001	F003	2905725	P
2	WASTE PAINT RELATED MATERIAL AND SOLVENTS	3	0	D001 D005	F003 D007	105045	P
~~3~~				D008			
4							
5							
6							
7							
8							

XIII. COMMENTS (enter information by section number)
SECTION XII; LINE 1: 387,430 GAL X 7.5 LB/GAL - SOLVENT RECLAIMED OFFSITE FOR REUSE.
LINE 2: 119,715 GAL X 7.56 LB/GAL - SOLVENTS RECOVERED OFFSITE.

CLOW HYDRO RESEARCH SERVICES
Water-Management-Division
Clow Corporation

Ford Motor Company
SSECO
Parklane Towers, Suite 628W
One Parklane Blvd.
Dearborn, MI 48126
Attn: Mr. Paul Sgriccia

March 5, 1981

PN # 43-178838

Sample received 2-24-81

HYDRO NO:	45694
CUST. ID:	102230082 Ohio Truck-paint sludge EP tox. extract
Arsenic, As, mg/l	0.0039
Barium, Ba, mg/l	1.3
Cadmium, Cd, mg/l	< 0.002
Chromium, Total, Cr, mg/l	2.3
Chromium, Hex., Cr, mg/l	*
Lead, Pb, mg/l	< 0.02
Mercury, Hg, mg/l	< 0.0002
Selenium, Se, mg/l	0.0065
Silver, Ag, mg/l	< 0.002
Copper, Cu, mg/l	< 0.002
Nickel, Ni, mg/l	< 0.02
Zinc, Zn, mg/l	3.3

RECEIVED
FEB 1 1 1982
OHIO ENVIRONMENTAL PROTECTION AGENCY
N.E.D.O.

* Not analyzed per your request. Total Chromium did not exceed 5 mg/l.

Linda Carey

Linda Carey/Manager
Analytical Services

FORD MOTOR COMPANY
OHIO TRUCK PLANT

HAZARDOUS WASTE SUPPLEMENT
AMENDMENT TO SPILL PREVENTION CONTROL AND COUNTERMEASURE
(SPCC)/PLAN

Note: This amendment has been prepared in compliance with Federal Waste Management Regulations applicable to Generators (40 CFR 262), as well as to hazardous waste/storage/disposal facilities which have attained interim compliance status (40 CFR 265).

I. Hazardous Waste Activities conducted

A. Hazardous Waste generated

1. Waste water treatment sluges from industrial painting (F018).
(Temporarily suspended by EPA)

2. Paint residues from industrial painting (F017)
(Temporarily suspended by EPA)

3. Paint residues from industrial painting (D002).

4. Spent non-halogenated solvents (F001, F003, F005).

5. Waste commercial chemical products: Xylene (U239), Toluene (U22).

B. Hazardous waste treatment/storage/disposal activities, which require RCRA permit are not conducted at this facility. Storage of hazardous waste in containers is for less than 90 days. (See attached facility site plan for storage locations).

HAZARDOUS WASTE SAMPLING AND ANALYSIS DATA SHEET

Facility OHIO TRUCK PLANT

Waste Material(s) (use same nomenclature as for Solid Waste Inventory) DEL PARK WASTE

Physical Nature of Waste Material or Mixture of Materials:

- ____ Liquid, aqueous
- ____ Liquid, organic
- XXXX Semi-solid (slurry, paste, sludge, etc.)
- ____ Solid (dry powder or granular)
- ____ Solid (greater than 1/4" in dia. or width)
- ____ Oil
- ____ Other (Describe ____)

Sampling Information

Individual Performing Sampling Jim Jurczyk Date 2-3-81

Location or Disposition of Waste Material when Sampled, e.g., Lagoon, Drum, etc. Gondola

Describe Sampling Procedure Sample was taken from gondolas at each location and combined as one sample

Sample Size (lbs., grams, ml, quarts, etc.) quart

Sample Container plastic sample container

Sample Preservation none

Analytical Information

Individual(s) and Organization Performing Analysis ____

Date of Analysis ____

Analytical Data (enter N/A if not applicable)

Flash Point ____ °F

pH ____ S.U.

Corrosion ____

Leachate (mg/l): As ____, Ba ____, Cd ____, Cr ____, Pb ____, Hg ____, Se ____, Ag ____, Resticides.

RECEIVED
FEB 11 1982
OHIO ENVIRONMENTAL PROTECTION AGENCY
N. E. D. O.

Originals were bad

Inter Office

Automotive Assembly Division
Ohio Truck Plant

March 24, 1982

To: Helen Takacs
Environmental Scientist

From: R. W. Eichholz

Subject: Your letter of February 24, 1982

Attached is a revised copy of our contingency plan. Section IV Part C has been revised to better identify our containment equipment and show exact storage location of the equipment within the plant.

Our contingency plan in Section III and in Section IV Part A, lists the names and home phone numbers of our emergency coordinators. A list of home addresses is maintained at our Plant Security Office which is manned [illegible] hours per day, 365 days per year. We feel this satisfies the requirements of Ohio Regulation 3745-55-52.

[illegible] in our Division Registered [illegible] contingency plan will be submitted [illegible]

R. W. Eichholz

R. W. Eichholz, Manager
Manufacturing [illegible]

RECEIVED
MAR 26 1982
OHIO ENVIRONMENTAL
PROTECTION AGENCY
N. E. D. O.

HAZARDOUS WASTE SAMPLING AND ANALYSIS DATA SHEET

Facility OHIO TRUCK PLANT

Waste Material(s) (use same nomenclature as for Solid Waste Inventory)
LAGOON SLUDGE

Physical Nature of Waste Material or Mixture of Materials:

- ____ Liquid, aqueous
- ____ Liquid, organic
- X Semi-solid (slurry, paste, sludge, etc.)
- ____ Solid (dry powder or granular)
- ____ Solid (greater than 1/4" in dia. or width)
- ____ Oil
- ____ Other (Describe ____)

Sampling Information

Individual Performing Sampling Jim Jurczyk Date 2-10-81

Location or Disposition of Waste Material when Sampled, e.g., Lagoon, Drum, etc.
Lagoon

Describe Sampling Procedure Sample was taken from four sides of Lagoon and combined as one sample

Sample Size (lbs., grams, ml, quarts, etc.) quart

Sample Container plastic sample container

Sample Preservation none

Analytical Information

Individuals and Organization Performing Analysis ____

Date of Analysis ____

Analytical Data (enter N/A if not applicable)

Flash Point ____ °F

Leachate (mg/l): As ____, Ba ____, Cd ____, Cr ____, Pb ____, Hg ____, Se ____, Ag ____, Pesticides:

RECEIVED
FEB 11 1982
OHIO ENVIRONMENTAL PROTECTION AGENCY
N. E. D. O.

CLOW

HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation

408 Auburn Avenue
Pontiac, MI 48058

313 334-1630
313 334-4747

RECEIVED
FEB 11 1982
OHIO ENVIRONMENTAL PROTECTION AGENCY
N. E. D. O.

TO:
Ford Motor Company
Stationary Source Environmental
Control Office
628W Parklane Towers
1 Parklane Blvd.
Dearborn, MI 48126
Attn: ~~P. Sgriccia~~
PN #43-178838

Date: March 24, 1981

Sample received: March 12, 1981

HYDRO NO: 46031
CUST. ID: 103020086
Ohio Truck, S. lagoon sludge, EP toxicity extract

	RCRA Limits	Determined Value	Duplicate	Spike Amount	Spike Amount Determined	Percent Recovery
Arsenic, As, mg/l	5.0	< 0.008	< 0.0016	0.040	0.035	87.5
Barium, Ba, mg/l	100	0.40	0.40	1.0	0.9	90
Cadmium, Cd, mg/l	1.0	< 0.002	< 0.002	1.0	1.0	100
Chromium, Total, Cr, mg/l	5.0	< 0.002	< 0.002	1.0	1.0	100
Lead, Pb, mg/l	5.0	< 0.02	< 0.02	1.0	1.0	100
Mercury, Hg, mg/l	0.20	< 0.0005	< 0.0010	0.010	0.011	110
Selenium, Se, mg/l	1.0	< 0.0008	< 0.0016	0.040	0.044	110
Silver, Ag, mg/l	5.0	< 0.002	< 0.002	1.0	1.0	100
Copper, Cu, mg/l		< 0.002	< 0.002	1.0	1.0	100
Nickel, Ni, mg/l		21	21	10	9	90
Zinc, Zn, mg/l		92	94	50	52	104

Linda Carey

Linda Carey/Manager
Analytical Services

R-191

I. SUMMARY

The Ford Motor Company Ohio Truck Plant, which paints van bodies will be required to achieve compliance with USEPA Electroplating Guidelines for the pretreatment of industrial wastewater by June 30, 1984.

The wastewater stream contains heavy metals such as zinc, nickel, lead, chromium and phosphates produced from manufacturing operations including phosphating metal surfaces, electrocoat priming, paint booths, demineralizer water system regeneration, caustic paint stripping and powerhouse blowdown.

The existing pretreatment facility constructed in 1974 requires modifications to maintain compliance with USEPA Electroplating Guidelines and to improve chemical feed systems and sludge separation and handling capabilities.

A two phased construction program is planned for the proposed modifications. Phase I is to be completed by May 31, 1984 and operational by June 30, 1984 in order to be in compliance with Electroplating Guidelines. Phase II will be completed by November 1, 1984.

Phase I includes the installation of a gravity parallel plate separator with associated pumps piping controls and sampling system. Phase II will include upgrading of the existing chemical feed system to improve treatment efficiency and the installation of a sludge storage tank and sludge dewatering filter press to reduce sludge disposal costs.

Attached for reference is a Wastewater Pretreatment Block Diagram outlining both the existing and proposed facilities.

The existing treatment facilities consist of an influent pump station (B), two (2) 50,000 gallon above ground steel treatment tanks (C,D), one (1) 47,000 gallon and one (1) 41,000 gallon below grade treatment tanks (E,F), two (2) 300,000 gallon concrete lined settling lagoons (M,N), above ground chemical storage tanks for sulfuric acid (G), sodium hydroxide (H), and ferric chloride (J), and a control building which houses a laboratory and the chemical feed systems.

The existing treatment process settles the hydroxide sludges in the batch treatment tanks and then following treatment pumps the settled sludges via line (L_1) to the settling lagoons. Following settling, the lagoons can then be decanted either to the influent sump (B) or directly to the city sewerage system via line (Y). Following transfer of the settled sludges from the batch tanks to the settling lagoons the treated or clarified wastes are pumped (L) through line L_2 to the municipal system.

The modified pretreatment facility will not change the chemical treatment process but will improve solids separation and handling, provide sludge dewatering capabilities and improve chemical feeding. The existing concrete lined settling lagoons (M,N) will be removed from normal service but will remain for emergency use only.

II. DESCRIPTION OF FACILITIES (MODIFIED)

The pretreatment facilities are shown schematically on the Block Diagram (attached).

The sources of wastewater containing heavy metals are transported to the waste treatment facility by a gravity sewer (A). The wastewater is collected in an influent sump (B) and pumped to one of four batch tanks (C, D, E, F) for chemical treatment with sulfuric acid (C), ferric chloride ((H) and caustic (J) to provide precipitation of heavy metals into a hydroxide sludge. Reduction of hexavalent chrome is accomplished by the addition of sodium metabisulfite. Sump (B) is equipped with a belt skimmer for oil removal. The oil is collected in 550 gallon underground storage tank for vendor removal from site.

As treatment is completed, each tank is pumped (L) to a parallel late gravity settler (Q). Polymer (P) is added to aid in settling the hydroxide sludges. The existing treatment process adds polymer (K) to the batch treatment tanks but upon installation of the settler this will be eliminated. The hydroxide sludge is settled and pumped (S) to a sludge storage tank (T). Following thickening in the sludge tank the sludge is pumped (U) to a filter press for dewatering. The dewatered sludge is collected in containers for hauling and disposal at an approved landfill. The filtrate is returned to influent sump for retreatment. During the interim period of approximately five months between the placement into operation of the gravity settler and the filter press the sludges separated in the settler will be pumped via existing sludge lines (S_1) to the existing concrete lined lagoons. The decant water from the sludge lagoons will return through existing lines (Z) to the influent sump (A). The clarified wastewater (W) flows to a flow measurement sampling station (X) before discharge to the City of Avon Lake sewerage system.

The clarified discharge will contain less than 0.8 mg/l zinc, 1.3 mg/l nickel, 0.23 mg/l lead, 0.8 mg/l total chrome and 2.0 mg/l phosphates.

III. DESIGN CRITERIA

The following flows were utilized in design development:

design flow (ave.)	400 gpm
design flow (max.)	750 gpm
flow duration	24 hours
total daily flow (max.)	580,000 gal.

The influent wastestream composition varies widely depending on operations which are discharging. Typically, the wastestream will have the following characteristics:

zinc	5-100	mg/l
lead	1-10	mg/l
nickel	1-10	mg/l
chromium	5-100	mg/l
oil	10-100	mg/l
phosphates	5-50	mg/l
pH	4-10	mg/l
BOD	250	mg/l
suspended solids	25-100	mg/l

APPLICATION FOR PERMIT TO INSTALL
FORD MOTOR COMPANY
OHIO TRUCK PLANT
WASTEWATER PRETREATMENT FACILITY

The following data is furnished as required by the Ohio Environmental Protection Agency form EPA 3150 dated June 8, 1982:

1. Describe the product or service to be produced by the applicant along with a description of the proposed source/facility.

   The Ohio Truck Plant currently produces painted van bodies. Modifications to an existing industrial wastewater pretreatment facility are proposed to provide improved chemical feed and sludge separation facilities and dewatering.

2. List the name and quantity of all materials and chemicals (solid, liquid, or gaseous) that will be used or produced by the source/facility.

   The proposed facility will utilize the following approximate quantities of chemicals annually:

sulfuric acid	25,000	gallons
caustic	100,000	gallons
ferric chloride	87,000	gallons
anionic polymers	1,000	pounds

3. State the reason for the application. Is this a new installation, modification to an existing source/facility, reconstruction of an existing source/facility or startup of a source/facility that has been permanently shutdown for ____ years? (State number of years.)

   The proposed modifications to the existing operating wastewater pretreatment facility are required to comply with USEPA Electroplating Guidelines. The facility will incorporate new chemical feed systems and a gravity parallel plate solids separator and sludge dewatering filter press. The latter two will replace the present concrete lined settling lagoons.

4. Has a previous Ohio EPA application or plan submission been filed for this source/facility? If so, state the date and type of the application previously submitted.

   No

5. Will the proposed source/facility comply with all rules, laws, and regulations of Ohio EPA and U.S. EPA?

   The proposed facility will comply with all rules, laws and regulations of the Ohio EPA and USEPA.

FOR WASTEWATER DISCHARGES

16. State the anticipated quality of all types of environmental pollutants to be discharged by the facility.

Based on experience at other Ford pretreatment facility locations, it is anticipated that the treated effluent quantity would be as follows:

Zinc	less than	1.32 mg/l
Nickel	less than	2.15 mg/l
Lead	less than	0.39 mg/l
Chromium	less than	1.56 mg/l
Oil	less than	10-25 mg/l
Phosphates		1-2 mg/l
pH		8.5 ±
BOD		250 mg/l
Suspended Solids		10-25 mg/l

17. State in detail the method for disposal for all environmental pollutants listed in the question above. This should include a complete description of any control equipment to be employed.

Pollutants will be removed from the wastewater by chemical treatment and gravity settling as sludge. The sludge will be dewatered in a filter press and hauled to a licensed landfill in accordance with all applicable regulations.

18. If wastewater is to be discharged to a surface water, state the anticipated concentration (mg/l) and loading (lbs/day) in the discharge, and the effect this discharge will have on the surface water under critical conditions.

There will be no discharge to surface waters.

19. If wastewater is to be discharged to the groundwater, state the anticipated concentration (mb/l) and loading (lbs/day) in the wastewater, and the effect this wastewater will have on the groundwater.

There will be no discharge to groundwaters.

20. If wastewater is to be discharged to a sewerage system, what will be the effect on the sewerage system and wastewater treatment system.

The present discharge volume of .500 MGD to the City of Avon Lake sewerage system will remain unchanged while the quality of the discharge will be upgraded as described in answer 16.

21. Describe any monitoring equipment to be installed at the facility.

A flow proportioned, refrigerated, composite sampler will be provided for sampling the treated effluent.

Effluent Flow

Average daily flow: 409,307 gpd

Maximum daily flow: 666,000 gpd

Effluent Analyses (mg/l)

Date	Cu	Cd	Pb	Zn	Cr	Ag	Ni	TTO
4/7/84	-	-	-	-	-	-	-	0.184
4/8/84	-	-	-	-	-	-	-	0.401
4/9/84	-	-	-	-	-	-	-	0.830
4/10/84	-	-	-	-	-	-	-	0.634
4/11/84	-	-	-	-	-	-	-	0.358
4/12/84	-	-	-	-	-	-	-	0.840
7/31/84	0.06	<0.01	0.05	0.30	0.10	<0.01	0.22	-
8/1/84	0.02	<0.01	0.11	0.42	0.04	<0.01	0.22	-
8/2/84	0.02	<0.01	0.03	0.44	0.02	<0.01	0.36	-
8/3/84	0.01	<0.01	0.09	0.32	0.05	<0.01	0.17	-
8/5/84	0.04	<0.01	0.38	1.6	0.09	<0.01	0.72	-
8/6/84	0.02	<0.01	0.04	0.24	0.04	<0.01	0.11	-
8/7/84	0.02	<0.01	0.06	0.18	0.04	<0.01	0.09	-
8/8/84	0.02	<0.01	0.07	0.36	<0.02	<0.01	0.16	-
8/9/84	0.02	<0.01	0.06	0.29	<0.02	<0.01	0.14	-
8/10/84	0.02	<0.01	<0.02	0.09	<0.02	<0.01	0.09	-
8/11/84	0.02	<0.01	0.08	0.96	0.03	<0.01	0.38	-

NOTE: All samples are 24-hour composites.

7/JNT6/1h

Ohio Truck Treatment Plant Effluent (mg/l)

Sample Dates	Cu	Cd	Pb	Zn	Cr	Ni	Total Metals
6/27/84	<0.05	0.01	0.12	0.22	0.05	0.18	<0.50
6/28/84	<0.05	<0.01	<0.05	0.16	0.03	0.10	<0.34
6/29/894	<0.05	<0.01	<0.05	0.17	0.04	<0.10	<0.36

-8409 M 8409 811027

AGENCY COPY

MONTHLY REPORT FORM

REPORTED

OhioEPA

NAME, ADDRESS, CITY, COUNTY, ZIP	STATION CODE	DATE (MONTH, YEAR)	PAGE	PRINTING DATE	APPLICATION N
AVON LAKE WASTEWATER PLANT MUNICIPAL UTILITIES DEPT WATER POLLUTION CONTROL CEN 33370 LAKE ROAD AVON LAKE 44012 LORAIN	3P2000003102	SEP 1984	OF 1	07/14/84	4002330

SAMPLING STATION DESCRIPTION

FORD MOTOR CO / BODY AND ASSEMBLY / OHIO TRUCK PLI

NOTE: THIS FORM MUST BE TYPI

IN(1) - ENTER 1 FOR CONTINUOUS, 2 FOR COMPOSITE, 3 FOR GRAB SAMPLE

IN(2) - ENTER FREQUENCY OF SAMPLING

REPORTING LAB ENVIRONMENTAL RESEARCH GROUP

ANALYST ART CZABANIUK

ENTER ANALYSES PERFORMED AND CODE NO. AT RIGHT										
(1)	2		2	2	2	2	2	2	2	
(2)	998		55	55	55	55	55	55	55	
	FLOW RATE GPD	CYANID CN MG/L	CAD CD,TOT UG/L	CHR R CR,TOT UG/L	COPPER CU,TOT UG/L	LEAD PB,TOT UG/L	NICKEL NI,TOT UG/L	ZINC ZN,TOT UG/L	TOTAL METALS UG/L	
	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING CODE	REPORTING COD
DAY	00056	00720	01027	01034	01042	01051	01067	01092	82205	
01	452,000		0.01	0.10	0.06	0.05	0.22	0.30	0.68	
02	411,000		0.01	0.04	0.02	0.11	0.22	0.42	0.87	
03	488,000		0.01	0.02	0.02	0.03	0.36	0.44	0.84	
04	404,000		0.01	0.05	0.01	0.09	0.17	0.32	0.55	
05	89,000		0.01	0.09	0.04	1.6	0.72	1.6	2.58	
06	356,000		0.01	0.04	0.02	0.24	0.11	0.24	0.41	
07	544,000		0.01	0.04	0.02	0.18	0.09	0.18	0.33	
08	493,000		0.01	0.02	0.02	0.36	0.04	0.36	0.44	
09	493,000		0.01	0.02	0.02	0.29	0.04	0.29	0.37	
10	563,000		0.01	0.02	0.02	0.09	0.02	0.09	0.15	
11	405,000		0.01	0.03	0.02	0.96	0.02	0.96	1.03	
12										
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22										
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26										
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28										
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30										
31										
TOTAL	4,698,000		0.11	0.47	0.27	4	2.01	5.2	8.25	
AVG.	427,000		0.01	0.04	0.02	0.36	0.18	0.47	0.75	
MAX.	563,000		0.01	0.10	0.06	1.6	0.72	1.6	2.58	
MIN.	89,000		0.01	0.02	0.01	0.03	0.02	0.09	0.15	

ADDITIONAL REMARKS (AH REPORTING CODES MUST BE EXPLAINED IN THIS SECTION)

AH: Parallel plate separator down for repairs on 8-4-84

DISTRIBUTION
WHITE - AGENCY
YELLOW - AGENCY
GREEN - REPORTER

FORM NO. EPA-4500 (10-80)
FORMERLY EPA-SUR-1

I CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DATE REPORT COMPLETED	SIGNATURE OF REPORTER	TITLE OF REPORTER
10-1-84	D. A. Dunning	Environmental Rep.

Automotive Assembly Division
Ford Motor Company

Ohio Truck Plant
650 Miller Road
Avon Lake, Ohio 44012

January 15, 1985

Pretreatment Unit
Ohio Environmental Protection Agency
P. O. Box 1049
Columbus, Ohio 43216-1049

Dear Mr. Tin:

Enclosed is the semi-annual pretreatment report required by 40 CFR 403.12(e). Based on the data enclosed, the subject plant achieved electroplating pretreatment standards for metals set forth at 40 CFR 413.54. In lieu of data for toxic organics regulated by metal finishing standards set forth at 40 CFR 433.15(e), and based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify pursuant to 40 CFR 433.12(a) that, to the best of my knowledge and belief, no dumping of concentrated organics into the wastewaters has occurred since filing of the last discharge monitoring report. [illegible] certify that this facility is implementing the solvent manage[illegible]d to the control authority.

Ref. for Electroplating Standards.

J. [illegible] Manager

TD:mk

VIOLATION
Not run - late
(violations circled)

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- December 1984
OHIO TRUCK PLANT
FORD MOTOR COMPANY

(all data in mg/l except pH)

DATE	DISCHARGE (MGD)	pH RANGE	Cd	Cr	Cu	Pb	Ni	Zn	CN
7-31-84	0.452	8.4 - 8.8	<0.01	0.10	0.06	0.05	0.22	0.30	<0.01
8- 1-84	0.411	8.4 - 8.8	<0.01	0.04	0.02	0.11	0.22	0.42	<0.01
8- 2-84	0.488	8.4 - 8.8	<0.01	0.02	0.02	0.03	0.36	0.44	<0.01
8- 3-84	0.404	8.4 - 8.8	<0.01	0.05	0.01	0.09	0.17	0.32	<0.01
8- 5-84	0.089	8.4 - 8.8	<0.01	0.09	0.04	0.38	0.72	1.60	<0.01
8- 6-84	0.356	8.4 - 8.8	<0.01	0.04	0.02	0.04	0.11	0.24	<0.01
8- 7-84	0.454	8.4 - 8.8	<0.01	0.04	0.02	0.06	0.09	0.18	<0.01
8- 8-84	0.493	8.4 - 8.8	<0.01	<0.02	0.02	0.07	0.16	0.36	<0.01
8- 9-84	0.493	8.4 - 8.8	<0.01	<0.02	0.02	0.06	0.14	0.29	<0.01
8-10-84	0.563	8.4 - 8.8	<0.01	<0.02	0.02	<0.02	0.09	0.09	<0.01
8-11-84	0.405	8.4 - 8.8	<0.01	0.03	0.02	0.08	0.38	0.96	<0.01
8-13-84	0.401	8.4 - 8.8	<0.01	<0.02	0.02	<0.02	0.19	0.22	<0.01
8-15-84	0.445	8.4 - 8.8	<0.01	<0.02	0.02	0.08	0.16	0.22	<0.01
8-17-84	0.486	8.4 - 8.8	<0.01	<0.02	<0.01	<0.02	0.11	0.11	<0.01
8-19-84	0.130	8.4 - 8.8	0.03	0.40	0.26	0.90	16.00	200.00	<0.01
8-23-84	0.406	8.4 - 8.8	<0.01	<0.02	0.01	0.09	0.24	0.64	<0.01
8-27-84	0.222	8.4 - 8.8	<0.01	0.05	0.05	0.38	1.30	5.00	<0.01
8-29-84	0.439	8.4 - 8.8	<0.01	0.07	0.05	0.28	0.86	3.80	<0.01
8-31-84	0.445	8.4 - 8.8	<0.01	<0.02	0.02	<0.02	0.11	0.38	<0.01
9- 1-84	0.315	8.4 - 8.8	<0.01	<0.02	0.04	0.03	0.70	1.70	0.01
9- 5-84	0.488	8.4 - 8.8	<0.01	<0.02	0.05	0.10	0.09	0.30	<0.01
9- 7-84	0.356	8.4 - 8.8	<0.01	<0.02	0.05	0.10	0.30	0.34	<0.01
9-11-84	0.488	8.4 - 8.8	<0.01	<0.02	0.03	<0.02	0.12	0.20	<0.01
9-13-84	0.486	8.4 - 8.8	<0.01	<0.02	0.04	0.02	0.19	0.34	<0.01
9-15-84	0.348	8.4 - 8.8	<0.01	<0.02	0.03	<0.02	0.09	0.16	<0.01
10- 7-84	0.219	8.4 - 8.8	<0.01	<0.02	0.03	<0.02	0.24	0.30	0.01
10- 9-84	0.616	8.4 - 8.8	<0.01	<0.02	0.04	<0.02	0.07	0.02	<0.01
10-11-84	0.613	8.4 - 8.8	<0.01	<0.02	0.04	0.02	0.10	0.24	<0.01
10-13-84	0.089	8.4 - 8.8	<0.01	0.02	0.05	0.03	0.20	0.32	<0.01
10-15-84	0.089	8.4 - 8.8	<0.01	0.03	0.13	0.05	0.28	0.92	<0.01
10-17-84	0.404	8.4 - 8.8	<0.01	<0.02	0.05	0.02	0.24	0.44	--

Total Metals for 8/19 216.66

NOTE: ALL SAMPLES WERE 24 HOUR COMPOSITES

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- December 1984
OHIO TRUCK PLANT
FORD MOTOR COMPANY

(all data in mg/l except pH)

DATE	DISCHARGE (MGD)	pH RANGE	Cd	Cr	Cu	Pb	Ni	Zn	CN
10-19-84	0.445	8.4 - 8.8	<0.01	<0.02	0.03	0.03	0.10	0.20	<0.01
10-21-84	0.178	8.4 - 8.8	<0.01	<0.02	0.04	0.03	0.15	0.10	0.01
11- 5-84	0.397	8.4 - 8.8	<0.01	0.03	0.03	0.04	0.02	0.16	<0.01
11- 7-84	0.445	8.4 - 8.8	<0.01	0.03	0.03	0.04	0.12	0.10	<0.01
11- 9-84	0.491	8.4 - 8.8	<0.01	0.03	0.03	0.04	0.16	0.14	<0.01
11-13-84	0.446	8.4 - 8.8	<0.01	0.03	0.03	0.04	0.17	0.15	<0.01
11-15-84	0.449	8.4 - 8.8	<0.01	0.03	0.03	0.05	0.16	0.23	<0.01
11-17-84	0.398	8.4 - 8.8	<0.01	0.03	0.22	0.04	1.80	0.59	<0.01
11-19-84	0.399	8.4 - 8.8	<0.01	0.03	0.02	0.04	1.10	0.86	<0.01
11-21-84	0.623	8.4 - 8.8	<0.01	0.03	0.02	0.04	0.28	0.18	<0.01
11-23-84	0.041	8.4 - 8.8	<0.01	0.03	0.02	0.04	0.33	0.25	<0.01
11-25-84	0.082	8.4 - 8.8	<0.01	0.03	0.02	0.04	0.46	0.43	<0.01
11-29-84	0.534	8.4 - 8.8	<0.01	0.06	0.07	0.08	0.03	1.90	--

NOTE: ALL SAMPLES WERE 24 HOUR COMPOSITES

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- December 1984
OHIO TRUCK PLANT
FORD MOTOR COMPANY

(all data in mg/l except pH and Flow)

D A T A S U M M A R Y

	Flow (MGD)	pH low	Cd	Cr	Cu	Pb	Ni	Zn	CN
NUMBER OF SAMPLES	44	44	44	44	44	44	44	44	42
ARITHMETIC MEAN	0.39	8.40	0.01	0.04	0.04	0.09	0.66	5.14	0.01
GEOMETRIC MEAN	0.34	8.40	0.01	0.03	0.03	0.05	0.22	0.38	0.01
EXTREME VALUE	0.62	8.40	0.03	0.40	0.26	0.90	16.00	200.00	0.01

STATION 3P00000310Z COUNTY 47 LORAIN

FORD MOTOR CO / BODY AND ASSEMBLY / OHIO TRUCK PLT
OEPA PERMIT #- 3P00000310 NPDES PERMIT #- OH0023981 EFF DATE 81/10/27 EXP DATE 86
AVON LAKE WASTEWATER PLANT ***** MAJOR *****
MUNICIPAL UTILITIES DEPT
WATER POLLUTION CONTROL CEN
33370 LAKE ROAD AVON LAKE OH 44012
MONTON A KILLINGER SUPT
AC(216)933-6226EXT

STORET CODE	DESCRIPTION			SCREENING TYPE	VALUE	PERMIT LIMITATION	D/H/M
00720	CYANIDE	CN	MG/L	4	.00	1.00	ND
01051	LEAD	PB,TOT	UG/L	1	1600	600	05
01051	LEAD	PB,TOT	UG/L	1	960	600	11

********** SCREENING TYPE LEGEND **********

* S.T.- 1 : DAILY CONCENTRATION S.T.- 2 : DAILY LOADING S.T.- 3 : DAILY BM
* S.T.- 4 : MONTHLY CONCENTRATION S.T.- 5 : MONTHLY LOADING S.T.- 6 : MONTHLY
* S.T.- 7 : WEEKLY CONCENTRATION S.T.- 8 : WEEKLY LOADING

OhioEPA

Re: Compliance Report Violations
National Pretreatment Program
Electroplating Pretreatment Standards
Ohio EPA Station Code 3PD00003102

CERTIFIED MAIL

Ford Motor Company
Ohio Truck Plant
650 Miller Road
Avon Lake, Ohio 44012

February 25, 1985

Gentlemen:

We are in receipt of your December, 1984 self-monitoring report covering compliance with the electroplating pretreatment standards (40 CFR Part 413) for the referenced facility. Our review indicates violations of the limitations contained in 40 CFR Part 413. The specific instances of noncompliance and/or deficiencies are as follows:

Parameter	Reported	Units	Limitation
Nickel (T)	16.00	[illegible]/l	4.1
Linc (T)	200.00		4.2
Linc (T)	5.00		4.2
Linc (ave.)	5.14		2.6
*Total Metals	216.66		10.5

*Reported on 8-19-84, maximum for any on[illegible]

Please be advised that failure to comp[illegible]it limitations or to satisfy the monitoring or reportin[illegible]he above regulations may be cause for enforcement action.

Please inform this office, in writing, wit[illegible] of receipt of this notification as to the reasons for the above rete[illegible]ed violations, as well as a description of the actions taken or proposed to prevent any further violations. Your response should include the dates, either actual or proposed, for completion of the actions.

If there are any questions, please contact this office.

Sincerely,

Sandra Kausek

Sandra Kausek
Environmental Scientist
Pretreatment

SK:ldm

cc: Matt Tim, CO, PWW
Avon Lake WWTP

RECEIVED
MAR - 5 1985
OHIO EPA-N.E.D.O.

Northeast District Office
2110 E. Aurora Road, Twinsburg, Ohio 44087 • (216) 425-9171

DR

Ford

Automotive Assembly Division
Ford Motor Company

RECEIVED JUL 13 1985 PUBLIC

LATE

noncompliance for max. standards violations noted

Mr. M. B. Tin
Pretreatment Unit
Ohio Environmental Protection Agency
P. O. Box 1049
Columbus, OH 43216-1049

Subject: Ford Ohio Truck Assembly Plant
Semi-Annual Pretreatment Reports
Electroplating and Metal-Finishing

Dear Mr. Tin:

Enclosed is the Semi-Annual Pretreatment Report, required by 40 CFR 403.12 (e). Based on the data enclosed, the Ohio Truck Plant achieved electroplating pretreatment standards for metals, set forth at 40 CFR 413.54 and metal-finishing pretreatment standards for total toxic organics (TTO), set forth at 40 CFR 433.15 (e). Cyanide is not used in our processes.

Sincerely,

J. J. Wiacek
Works Manager

JJW:TD:mk

Enclosure

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- June 1985
OHIO TRUCK
FORD MOTOR COMPANY

(all data in mg/l except pH)

DATE	DISCHARGE (MGD)	pH RANGE	Cd	Cr	Cu	Pb	Ni	Zn	TTO
12- 1-84	0.308	8.0 - 8.7	<0.01	0.04	0.02	<0.03	0.28	0.46	--
12- 3-84	0.397	7.0 - 8.6	<0.01	<0.01	0.02	<0.03	0.12	0.18	--
12- 5-84	0.445	8.4 - 8.8	<0.01	<0.01	0.02	<0.03	0.14	0.12	--
12- 7-84	0.493	7.4 - 8.8	<0.01	0.03	<0.01	<0.03	0.10	0.08	--
12- 9-84	0.130	8.2 - 8.5	<0.01	0.06	<0.01	<0.03	0.63	0.46	--
12-11-84	0.493	8.1 - 8.6	<0.01	0.03	<0.01	<0.03	0.14	0.12	--
12-13-84	0.488	7.1 - 8.8	<0.01	0.02	<0.01	<0.03	0.11	0.09	--
12-15-84	0.270	6.8 - 8.4	<0.01	0.05	0.02	<0.03	0.13	0.22	--
12-17-84	0.447	7.0 - 8.8	<0.01	<0.02	<0.01	<0.03	0.08	0.08	--
12-19-84	0.493	7.4 - 8.8	<0.01	<0.02	<0.01	<0.03	0.15	0.12	--
12-21-84	0.494	8.3 - 8.8	<0.01	<0.02	<0.01	<0.03	0.11	0.06	--
12-23-84	0.089	7.4 - 8.6	<0.01	0.02	<0.01	<0.03	1.80	0.64	--
12-25-84	0.048	7.2 - 7.2	<0.01	0.02	0.01	0.06	→6.90	→4.70	--→ 11.630 mg/l Total metals
12-27-84	0.089	7.9 - 8.5	<0.01	<0.02	0.02	0.05	→4.20	→8.30	--→ 12.520 mg/l Total metals
12-29-84	0.137	8.1 - 8.3	<0.01	<0.02	<0.01	<0.03	1.70	1.70	--
1- 3-85	0.582	8.2 - 8.6	<0.01	<0.02	0.01	<0.03	0.14	0.39	--
1- 5-85	0.356	7.0 - 8.7	<0.01	0.02	0.01	<0.03	0.11	0.27	--
1- 7-85	0.315	7.1 - 8.6	<0.01	<0.02	<0.01	<0.03	0.07	0.08	--
1- 9-85	0.575	8.2 - 8.7	<0.01	<0.02	0.02	<0.03	0.07	0.09	--
1-11-85	0.534	7.5 - 8.6	<0.01	<0.02	<0.01	<0.03	0.07	0.04	--
1-13-85	0.041	8.0 - 8.0	<0.01	<0.02	0.02	<0.03	0.44	0.39	--
1-15-85	0.582	7.2 - 8.8	<0.01	<0.02	0.02	<0.03	0.14	0.15	--
1-17-85	0.493	6.8 - 8.6	<0.01	<0.02	0.03	<0.03	0.13	0.16	--
1-19-85	0.267	7.2 - 8.6	<0.01	<0.02	0.02	<0.03	0.37	0.74	--
1-21-85	0.397	8.2 - 8.5	<0.01	<0.02	0.02	<0.03	0.23	0.37	--
1-23-85	0.493	7.4 - 8.8	<0.01	<0.03	0.02	<0.03	0.06	0.05	--
1-25-85	0.481	7.4 - 8.9	<0.01	<0.03	0.02	<0.03	0.08	0.08	--
1-27-85	0.048	8.6 - 8.6	<0.01	<0.03	0.02	<0.03	0.24	0.11	--
1-29-85	0.445	8.2 - 8.8	<0.01	<0.03	<0.01	<0.03	0.09	0.07	--
1-31-85	0.493	7.0 - 8.7	<0.01	<0.03	0.02	<0.03	0.19	0.14	--
2- 1-85	0.488	8.2 - 8.6	<0.01	<0.03	0.04	<0.03	0.29	0.29	--

NOTE: ALL SAMPLES WERE 24 HOUR COMPOSITES

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- June 1985
OHIO TRUCK
FORD MOTOR COMPANY

(all data in mg/l except pH)

DATE	DISCHARGE (MGD)	pH RANGE	Cd	Cr	Cu	Pb	Ni	Zn	TTO
2- 3-85	0.137	8.2 - 8.4	<0.01	<0.03	0.02	<0.03	0.09	0.04	--
2- 5-85	0.486	7.6 - 8.7	<0.01	<0.03	0.02	<0.03	0.12	0.10	--
2- 7-85	0.496	6.5 - 8.6	<0.01	0.04	0.02	<0.03	0.28	0.24	--
2- 9-85	0.286	7.0 - 8.4	<0.01	0.06	0.03	<0.03	1.80	0.34	--
2-11-85	0.259	7.4 - 8.7	<0.01	<0.03	0.02	<0.03	0.41	0.14	--
2-13-85	0.493	7.3 - 8.8	<0.01	<0.03	0.03	<0.03	0.16	0.08	--
2-15-85	0.534	8.2 - 8.8	<0.01	<0.03	0.04	<0.03	0.10	0.09	--
2-17-85	0.096	7.4 - 8.6	<0.01	<0.03	0.03	<0.03	0.51	0.40	--
2-19-85	0.258	7.4 - 8.6	<0.01	<0.03	0.03	<0.03	0.10	0.10	--
2-21-85	0.633	7.1 - 8.8	<0.01	<0.03	0.03	<0.03	0.12	0.10	--
2-23-85	0.308	6.9 - 8.8	<0.01	<0.03	0.04	<0.03	0.98	0.92	--
2-25-85	0.446	8.0 - 8.8	<0.01	<0.03	0.02	<0.03	0.14	0.10	--
2-27-85	0.582	8.0 - 8.6	<0.01	<0.03	0.02	<0.03	0.16	0.10	--
3- 1-85	0.615	8.1 - 8.7	<0.01	<0.03	0.02	<0.03	0.11	0.12	--
3- 3-85	0.096	8.1 - 8.5	<0.01	<0.03	0.02	<0.03	0.34	0.39	--
3- 5-85	0.575	8.2 - 8.7	<0.01	<0.03	0.02	<0.03	0.08	0.09	--
3- 7-85	0.623	7.4 - 8.7	<0.01	<0.03	0.02	<0.03	0.08	0.04	--
3- 9-85	0.357	7.0 - 8.7	<0.01	<0.03	0.02	<0.03	0.83	0.37	--
3-11-85	0.401	7.4 - 8.8	<0.01	<0.03	0.01	<0.03	0.25	0.21	--
3-13-85	0.575	7.3 - 8.8	<0.01	<0.03	0.02	<0.03	0.11	0.10	--
3-15-85	0.534	8.0 - 8.8	<0.01	<0.03	0.01	<0.03	0.94	0.07	--
3-17-85	0.048	8.5 - 8.5	<0.01	<0.03	<0.01	<0.03	0.10	0.09	--
3-19-85	0.575	8.1 - 8.6	<0.01	<0.03	0.02	<0.03	0.08	0.06	--
3-21-85	0.534	7.6 - 8.8	<0.01	<0.03	0.02	<0.03	1.30	2.30	--
3-23-85	0.226	7.4 - 8.2	<0.01	<0.03	0.04	<0.03	→5.50	→9.00	-- 14.540 mg/l total metals
3-25-85	0.445	8.0 - 8.8	<0.01	<0.03	0.02	<0.03	0.63	1.50	--
3-27-85	0.534	8.0 - 8.4	<0.01	<0.03	<0.01	<0.03	0.09	0.07	--
3-28-85	--	-----	--	--	--	--	--	--	0.02
3-29-85	0.582	8.0 - 8.8	<0.01	<0.03	<0.01	<0.03	0.07	0.14	0.02
3-30-85	--	-----	--	--	--	--	--	--	0.12
3-31-85	0.144	8.3 - 8.8	<0.01	<0.03	<0.01	<0.03	0.09	0.15	0.44

NOTE: ALL SAMPLES WERE 24 HOUR COMPOSITES

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- June 1985
OHIO TRUCK
FORD MOTOR COMPANY

(all data in mg/l except pH)

DATE	DISCHARGE (MGD)	pH RANGE	Cd	Cr	Cu	Pb	Ni	Zn	TTO
4- 1-85	0.356	8.3 - 8.6	<0.01	<0.03	<0.01	<0.03	0.08	0.06	0.14
4- 2-85	--	-----	--	--	--	--	--	--	0.09
4- 3-85	0.623	8.2 - 8.6	<0.01	<0.03	<0.01	<0.03	0.06	0.03	--
4- 5-85	0.267	6.2 - 8.6	<0.01	0.16	<0.01	<0.03	0.86	0.41	--
4- 7-85	0.048	7.0 - 7.0	<0.01	0.12	<0.01	<0.03	1.10	0.27	--
4- 9-85	0.629	7.2 - 8.8	<0.01	<0.03	<0.01	<0.03	0.09	0.07	--
4-11-85	0.657	7.0 - 8.8	<0.01	<0.03	<0.01	<0.03	0.10	0.06	--
4-13-85	0.308	6.1 - 8.2	<0.01	<0.03	0.01	<0.03	0.05	0.43	--
4-15-85	0.356	8.2 - 8.6	<0.01	<0.03	<0.01	<0.03	0.06	0.03	--
4-17-85	0.575	7.1 - 8.9	<0.01	<0.03	0.01	<0.03	0.73	0.22	--
4-19-85	0.623	8.0 - 8.6	<0.01	<0.02	<0.01	0.07	0.14	0.21	--
4-21-85	0.178	8.1 - 8.8	<0.01	<0.02	0.01	0.06	0.14	0.14	--
4-23-85	0.575	8.0 - 8.6	<0.01	<0.02	<0.01	0.05	0.08	0.09	--
4-25-85	0.582	7.2 - 8.8	<0.01	<0.02	<0.01	0.05	0.05	0.08	--
4-27-85	0.308	6.8 - 8.6	<0.01	<0.02	<0.01	0.07	0.19	0.45	--
4-29-85	0.454	7.4 - 8.6	<0.01	<0.02	<0.01	0.06	0.11	0.18	--
5- 1-85	0.493	8.0 - 8.8	<0.01	<0.02	<0.01	0.04	0.16	0.08	--
5- 3-85	0.486	7.0 - 8.6	<0.01	<0.02	<0.01	0.05	0.13	0.05	--
5- 5-85	0.089	8.3 - 8.8	<0.01	<0.02	<0.01	0.05	0.33	0.29	--
5- 7-85	0.543	7.8 - 8.6	<0.01	<0.02	<0.01	0.06	0.35	0.71	--
5- 9-85	0.445	7.0 - 8.6	<0.01	<0.02	<0.01	0.05	0.31	0.22	--
5-11-85	0.308	6.9 - 8.8	<0.01	<0.02	<0.01	0.06	0.82	0.88	--
5-13-85	0.404	7.4 - 8.8	<0.01	<0.02	<0.01	0.04	0.21	0.15	--

NOTE: ALL SAMPLES WERE 24 HOUR COMPOSITES

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- June 1985
OHIO TRUCK
FORD MOTOR COMPANY

(all data in mg/l except pH and Flow)

D A T A S U M M A R Y

	Flow (MGD)	pH low	Cd	Cr	Cu	Pb	Ni	Zn	TTO
NUMBER OF SAMPLES	82	82	82	82	82	82	82	82	6
ARITHMETIC MEAN	0.40	7.59	0.01	0.03	0.02	0.03	0.50	0.53	0.14
GEOMETRIC MEAN	0.33	7.57	0.01	0.03	0.02	0.03	0.21	0.18	0.08
EXTREME VALUE	0.66	6.10	0.01	0.16	0.04	0.07	6.90	9.00	0.44

Re: Compliance Report Violations
Electroplating Pretreatment Standards
Ohio EPA Station Code 3PD00003102

CERTIFIED MAIL

Ford Motor Company
Ohio Truck Plant
650 Miller Road
Avon Lake, Ohio 44012

September 17, 1985

Attn: Mr. J. H. Sandford

Dear Mr. Sandford:

We are in receipt of your June 1985 self-monitoring report covering compliance with the electroplating pretreatment standards (40 CFR 413). Our review indicates violations of the limitations contained in 40 CFR 413. The specific instances of noncompliance are as follows:

Date	Parameter	Reported	Units	Limitation
12-25-84	Ni	6.90	mg/l	4.1
"	Zn	4.70	"	4.2
"	Total Metals	11.63	"	10.5
12-27-84	Ni	4.20	"	4.1
"	Zn	8.30	"	4.2
"	Total Metals	12.52	"	10.5
3-23-85	Ni	5.50	"	4.1
"	Zn	9.00	"	4.2
"	Total Metals	14.54	"	10.5

Please be advised that failure to comply with the effluent limitations or to satisfy the monitoring or reporting requirements of the above regulations may be cause for enforcement action.

Please inform this office in writing, within ten days of receipt of this notification as to the reasons for the above referenced violations, as well as a description of the actions taken or proposed to prevent any further violations. Your response should include the dates, either actual or proposed, for completion of the actions.

If there are any questions, please contact this office.

Sincerely,

Sandy Kausek
District Pretreatment Coordinator

SK:mo
cc: Matt Tin, PWW, CO City of Avon Lake

Automotive Assembly Division
Ford Motor Company

1 day max violation on 8-17-85 for Ni.
Note: they did not sample for silver cyanide

Mr. M. B. Tin
Pretreatment Unit
Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43216-1049

Subject: Ford Ohio Truck Assembly Plant
Semi-Annual Pretreatment Report
Electroplating and Metal-Finishing Category

Dear Mr. Tin:

The attached pretreatment effluent data are submitted in accordance with 40 CFR 403.12 (e) of the General Pretreatment Regulations. The data demonstrate that the Ohio Truck Plant continues to comply with the U.S. EPA limits for metals specified in the Electroplating Pretreatment Standards, 40 CFR 413.64. Cyanide is not used in our processes.

In lieu of data for toxic organics and based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO) specified in the Metal-Finishing Pretreatment Standards [40 CFR 433.15 (e)], I certify that to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the solvent management plan submitted to the control authority.

If there are any questions, please contact Mr. F. P. Nixon, Principal Staff Engineer, at (313) 322-3716.

Very truly yours,

J. J. Wiacek
Works Manager

JJW:TD:mk
Attachments

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- December 1985
OHIO TRUCK
FORD MOTOR COMPANY

(all data in mg/l except pH)

DATE	DISCHARGE (MGD)	pH RANGE	Cd	Cr	Cu	Pb	Ni	Zn
5-29-85	0.482	8.4 - 8.8	<0.02	<0.03	<0.02	<0.05	0.21	0.44
5-31-85	0.623	7.3 - 8.7	<0.02	<0.03	0.04	<0.05	0.09	0.04
6- 1-85	0.315	7.0 - 8.8	<0.02	<0.03	<0.02	<0.05	0.10	0.10
6- 3-85	0.444	7.4 - 8.8	<0.02	<0.03	<0.02	<0.05	0.09	0.05
6- 5-85	0.623	7.9 - 8.2	<0.02	<0.03	0.02	<0.05	0.06	0.06
6- 7-85	0.623	8.3 - 8.6	<0.02	<0.03	0.04	<0.05	0.19	0.36
6- 9-85	0.130	8.4 - 8.4	<0.02	<0.03	<0.02	<0.05	0.09	0.10
6-11-85	0.534	8.1 - 8.4	<0.02	<0.03	<0.02	<0.05	0.12	0.08
6-13-85	0.582	7.4 - 8.9	<0.02	<0.03	0.06	<0.05	0.30	0.33
6-15-85	0.356	6.9 - 8.8	<0.02	<0.03	0.05	0.12	3.50	3.50
6-17-85	0.486	8.0 - 8.8	<0.02	0.03	<0.02	0.07	1.20	0.60
6-19-85	0.534	8.0 - 8.7	<0.02	<0.03	0.03	0.07	0.17	0.20
6-21-85	0.486	7.2 - 8.6	<0.02	<0.03	0.05	0.10	0.29	0.66
6-23-85	0.089	7.4 - 8.0	<0.02	<0.03	0.05	0.11	0.24	0.68
6-25-85	0.582	8.0 - 8.8	<0.02	<0.03	0.08	<0.05	1.20	0.83
6-27-85	0.582	8.0 - 8.4	<0.02	<0.03	0.08	<0.05	0.44	0.49
6-29-85	0.356	7.3 - 8.5	<0.02	0.03	0.05	<0.05	0.17	0.16
7- 3-85	0.096	6.5 - 8.2	<0.02	<0.03	<0.02	<0.05	0.19	0.02
7- 9-85	0.048	8.3 - 8.3	<0.02	<0.03	0.02	<0.05	0.12	0.04
7-11-85	0.137	8.0 - 8.4	<0.02	<0.03	<0.02	<0.05	0.14	0.31
7-13-85	0.096	8.0 - 8.4	<0.02	<0.03	0.03	<0.05	0.12	0.11
7-15-85	0.397	8.2 - 8.8	<0.02	<0.03	0.04	<0.05	0.05	0.06
7-17-85	0.472	8.2 - 8.8	<0.02	<0.03	0.04	<0.05	0.07	0.06
7-29-85	0.404	7.2 - 8.8	<0.02	<0.03	0.03	<0.05	0.15	0.09
7-31-85	0.445	7.3 - 8.8	<0.02	<0.03	0.05	<0.05	0.21	0.20
8- 1-85	0.534	8.3 - 8.5	<0.02	<0.03	0.04	<0.05	0.11	0.25
8- 3-85	0.267	7.1 - 8.3	<0.02	<0.03	0.07	<0.05	2.00	1.50
8- 5-85	0.305	8.1 - 8.6	<0.02	<0.03	0.03	<0.05	0.15	0.22
8- 7-85	0.357	8.4 - 8.8	<0.02	<0.03	0.05	<0.05	0.29	0.60
8- 8-85	0.534	8.0 - 9.0	<0.02	<0.03	0.02	<0.05	0.16	0.08
8- 9-85	0.397	8.0 - 8.8	<0.02	<0.03	0.03	0.06	0.24	0.65

NOTE: ALL SAMPLES WERE 24 HOUR COMPOSITES

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT — December 1985
OHIO TRUCK
FORD MOTOR COMPANY

(all data in mg/l except pH)

DATE	DISCHARGE (MGD)	pH RANGE	Cd	Cr	Cu	Pb	Ni	Zn
8-13-85	0.493	8.2 - 8.8	<0.02	<0.03	0.02	<0.05	0.13	0.17
8-15-85	0.534	7.2 - 8.9	<0.02	<0.03	0.05	<0.05	0.12	0.11
8-17-85	0.408	6.2 - 8.8	<0.02	<0.03	0.10	<0.05	7.00	3.00
8-19-85	0.356	7.4 - 8.8	<0.02	<0.03	0.06	<0.05	0.22	0.10
8-21-85	0.445	7.2 - 8.9	<0.02	<0.03	0.04	<0.05	0.12	0.11
8-23-85	0.399	8.0 - 8.6	<0.02	<0.03	0.08	<0.05	0.24	0.08
8-25-85	0.182	8.0 - 8.3	<0.02	<0.03	0.03	<0.05	0.25	0.12
8-27-85	0.538	8.0 - 8.7	<0.02	<0.03	0.05	<0.05	0.11	0.07
8-29-85	0.445	7.0 - 8.9	<0.02	<0.03	0.03	<0.05	0.05	0.03
8-31-85	0.317	7.0 - 8.2	<0.02	<0.03	<0.02	<0.05	1.70	0.52
9- 3-85	0.416	8.0 - 8.6	<0.02	0.03	0.02	<0.05	0.09	0.13
9- 5-85	0.534	7.1 - 8.8	<0.02	<0.03	0.03	<0.05	0.09	0.08
9- 7-85	0.493	6.8 - 8.5	<0.02	<0.03	0.05	0.05	0.63	0.85
9-11-85	0.089	8.0 - 8.3	<0.02	<0.03	0.05	<0.05	0.09	0.03
9-15-85	0.048	8.4 - 8.4	<0.02	<0.03	0.05	<0.05	0.14	0.27
9-19-85	0.048	8.1 - 8.1	<0.02	<0.03	0.03	<0.05	0.08	0.07
9-23-85	0.397	7.2 - 8.6	<0.02	<0.03	0.05	<0.05	0.20	0.19
9-25-85	0.534	7.4 - 8.9	<0.02	<0.03	0.05	<0.05	0.23	0.32
9-27-85	0.534	8.3 - 8.8	<0.02	<0.03	<0.02	<0.05	0.14	0.18
9-29-85	0.041	8.6 - 8.6	<0.02	<0.03	<0.02	<0.05	0.11	0.08
10- 1-85	0.623	7.5 - 8.7	<0.02	<0.03	<0.02	<0.05	0.19	0.18
10- 3-85	0.493	8.1 - 8.9	<0.02	<0.03	0.03	<0.05	0.12	0.13
10- 5-85	0.356	8.6 - 8.7	<0.02	0.04	0.04	<0.05	0.12	0.09
10- 7-85	0.466	8.4 - 8.8	<0.02	0.57	0.05	<0.05	0.10	0.11
10- 9-85	0.534	8.4 - 8.9	<0.02	0.14	0.05	<0.05	0.08	0.08
10-11-85	0.493	8.4 - 8.9	<0.02	<0.03	0.05	<0.05	0.09	0.07
10-13-85	0.089	8.4 - 8.9	<0.02	<0.03	0.04	<0.05	0.15	0.07
10-15-85	0.584	8.4 - 8.9	<0.02	<0.03	0.02	<0.05	0.16	0.07
10-17-85	0.582	8.2 - 8.7	<0.02	<0.03	0.05	<0.05	0.07	0.05
10-19-85	0.267	8.3 - 8.6	<0.02	0.05	0.04	<0.05	<0.05	0.07
10-21-85	0.399	8.1 - 8.8	<0.02	0.06	0.04	0.07	0.09	0.10

NOTE: ALL SAMPLES WERE 24 HOUR COMPOSITES

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT — December 1985
OHIO TRUCK
FORD MOTOR COMPANY

(all data in mg/l except pH)

DATE	DISCHARGE (MGD)	pH RANGE	Cd	Cr	Cu	Pb	Ni	Zn
10-23-85	0.536	8.4 - 8.9	<0.02	<0.03	0.04	<0.05	0.06	0.06
10-25-85	0.538	8.2 - 8.7	<0.02	0.03	0.05	<0.05	<0.05	0.06
10-27-85	0.089	8.3 - 8.6	<0.02	<0.03	0.05	<0.05	0.33	0.68
10-29-85	0.486	8.2 - 8.7	<0.02	<0.03	0.07	<0.05	0.09	0.05
10-31-85	0.452	8.0 - 8.9	<0.02	<0.03	0.05	<0.05	0.11	0.12
11- 1-85	0.445	8.5 - 9.0	<0.02	<0.03	0.08	<0.05	0.08	0.08
11- 9-85	0.348	8.4 - 8.8	<0.02	<0.03	0.06	<0.05	0.06	0.05
11-15-85	0.534	8.5 - 8.9	<0.02	<0.03	0.03	<0.05	0.07	0.07
11-21-85	0.324	8.6 - 8.9	<0.02	<0.03	0.04	<0.05	0.11	0.15
11-27-85	0.441	8.5 - 8.9	<0.02	<0.03	0.03	<0.05	0.16	0.09

NOTE: ALL SAMPLES WERE 24 HOUR COMPOSITES

SEMIANNUAL PRETREATMENT FACILITY EFFLUENT MONITORING REPORT -- December 1985
OHIO TRUCK
FORD MOTOR COMPANY

(all data in mg/l except pH and Flow)

D A T A S U M M A R Y

	Flow (MGD)	pH low	Cd	Cr	Cu	Pb	Ni	Zn
NUMBER OF SAMPLES	72	72	72	72	72	72	72	72
ARITHMETIC MEAN	0.40	7.88	0.02	0.04	0.04	0.05	0.37	0.30
GEOMETRIC MEAN	0.33	7.86	0.02	0.03	0.04	0.05	0.16	0.15
EXTREME VALUE	0.62	6.20	0.02	0.57	0.10	0.12	7.00	3.50

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW72

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9003

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	860.	U
111-44-4	bis(2-Chloroethyl)ether	860.	U
95-57-8	2-Chlorophenol	860.	U
541-73-1	1,3-Dichlorobenzene	860.	U
106-46-7	1,4-Dichlorobenzene	860.	U
100-51-6	Benzyl alcohol	860.	U
95-50-1	1,2-Dichlorobenzene	860.	U
95-48-7	2-Methylphenol	860.	U
108-60-1	bis(2-chloroisopropyl)ether	860.	U
106-44-5	4-Methylphenol	860.	U
621-64-7	N-Nitroso-di-n-propylamine	860.	U
67-72-1	Hexachloroethane	860.	U
98-95-3	Nitrobenzene	860.	U
78-59-1	Isophorone	860.	U
88-75-5	2-Nitrophenol	860.	U
105-67-9	2,4-Dimethylphenol	860.	U
65-85-0	Benzoic acid	4200.	U
111-91-1	bis(2-Chloroethoxy)methane	860.	U
120-83-2	2,4-Dichlorophenol	860.	U
120-82-1	1,2,4-Trichlorobenzene	860.	U
91-20-3	Naphthalene	860.	U
106-47-8	4-Chloroaniline	860.	U
87-68-3	Hexachlorobutadiene	860.	U
59-50-7	4-Chloro-3-methylphenol	860.	U
91-57-6	2-Methylnaphthalene	860.	U
77-47-4	Hexachlorocyclopentadiene	860.	U
88-06-2	2,4,6-Trichlorophenol	860.	U
95-95-4	2,4,5-Trichlorophenol	4200.	U
91-58-7	2-Chloronaphthalene	860.	U
88-74-4	2-Nitroaniline	4200.	U
131-11-3	Dimethylphthalate	860.	U
208-96-8	Acenaphthylene	860.	U
606-20-2	2,6-Dinitrotoluene	860.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW72

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9003

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	4200.	U	
83-32-9	Acenaphthene	860.	U	
51-28-5	2,4-Dinitrophenol	4200.	U	
100-02-7	4-Nitrophenol	4200.	U	
132-64-9	Dibenzofuran	860.	U	
121-14-2	2,4-Dinitrotoluene	860.	U	
84-66-2	Diethylphthalate	860 ~~91.~~	~~BJ~~ U	ZR 4-17
7005-72-3	4-Chlorophenyl-phenylether	860.	U	
86-73-7	Fluorene	860.	U	
100-01-6	4-Nitroaniline	4200.	U	
534-52-1	4,6-Dinitro-2-methylphenol	4200.	U	
86-30-6	N-Nitrosodiphenylamine (1)	860.	U	
101-55-3	4-Bromophenyl-phenylether	860.	U	
118-74-1	Hexachlorobenzene	860.	U	
87-86-5	Pentachlorophenol	4200.	U	
85-01-8	Phenanthrene	860.	U	
120-12-7	Anthracene	860.	U	
84-74-2	Di-n-butylphthalate	860 ~~330.~~	~~BJ~~ U	ZR 4-17
206-44-0	Fluoranthene	860.	U	
129-00-0	Pyrene	860.	U	
85-68-7	Butylbenzylphthalate	860.	U	
91-94-1	3,3'-Dichlorobenzidine	1700.	U	
56-55-3	Benzo(a)anthracene	860.	U	
218-01-9	Chrysene	860.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	860 ~~540.~~	~~BJ~~ U	ZR 4-17
117-84-0	Di-n-octylphthalate	860.	U	
205-99-2	Benzo(b)fluoranthene	860.	U	
207-08-9	Benzo(k)fluoranthene	860.	U	
50-32-8	Benzo(a)pyrene	860.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	860.	U	
53-70-3	Dibenz(a,h)anthracene	860.	U	
191-24-2	Benzo(g,h,i)perylene	860.	U	

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW72

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9003

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.24	1000.	J
2.	1120-21-4	Undecane (8CI9CI)	10.59	600.	J
3.	112-40-3	Dodecane (8CI9CI)	12.30	500.	J
4.	629-50-5	Tridecane (8CI9CI)	13.82	600.	J
5.	- -	UNKNOWN HYDROCARBON	15.22	500.	J
6.	- -	UNKNOWN HYDROCARBON	16.05	400.	J
7.	- -	UNKNOWN HYDROCARBON	16.53	500.	J
8.	544-76-3	Hexadecane (8CI9CI)	17.76	400.	J
9.	- -	UNKNOWN HYDROCARBON	18.92	400.	J
10.	- -	UNKNOWN HYDROCARBON	19.00	500.	J
11.	1560-93-6	Pentadecane, 2-methyl- (8CI9	21.09	300.	J
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW73

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9004

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	810.	U
111-44-4	bis(2-Chloroethyl)ether	810.	U
95-57-8	2-Chlorophenol	810.	U
541-73-1	1,3-Dichlorobenzene	810.	U
106-46-7	1,4-Dichlorobenzene	810.	U
100-51-6	Benzyl alcohol	810.	U
95-50-1	1,2-Dichlorobenzene	810.	U
95-48-7	2-Methylphenol	810.	U
108-60-1	bis(2-chloroisopropyl)ether	810.	U
106-44-5	4-Methylphenol	810.	U
621-64-7	N-Nitroso-di-n-propylamine	810.	U
67-72-1	Hexachloroethane	810.	U
98-95-3	Nitrobenzene	810.	U
78-59-1	Isophorone	810.	U
88-75-5	2-Nitrophenol	810.	U
105-67-9	2,4-Dimethylphenol	810.	U
65-85-0	Benzoic acid	3900.	U
111-91-1	bis(2-Chloroethoxy)methane	810.	U
120-83-2	2,4-Dichlorophenol	810.	U
120-82-1	1,2,4-Trichlorobenzene	810.	U
91-20-3	Naphthalene	810.	U
106-47-8	4-Chloroaniline	810.	U
87-68-3	Hexachlorobutadiene	810.	U
59-50-7	4-Chloro-3-methylphenol	810.	U
91-57-6	2-Methylnaphthalene	810.	U
77-47-4	Hexachlorocyclopentadiene	810.	U
88-06-2	2,4,6-Trichlorophenol	810.	U
95-95-4	2,4,5-Trichlorophenol	3900.	U
91-58-7	2-Chloronaphthalene	810.	U
88-74-4	2-Nitroaniline	3900.	U
131-11-3	Dimethylphthalate	810.	U
208-96-8	Acenaphthylene	810.	U
606-20-2	2,6-Dinitrotoluene	810.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW73

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9004

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	3900.	U	
83-32-9	Acenaphthene	810.	U	
51-28-5	2,4-Dinitrophenol	3900.	U	
100-02-7	4-Nitrophenol	3900.	U	
132-64-9	Dibenzofuran	810.	U	
121-14-2	2,4-Dinitrotoluene	810.	U	
84-66-2	Diethylphthalate	810.	U	
7005-72-3	4-Chlorophenyl-phenylether	810.	U	
86-73-7	Fluorene	810.	U	
100-01-6	4-Nitroaniline	3900.	U	
534-52-1	4,6-Dinitro-2-methylphenol	3900.	U	
86-30-6	N-Nitrosodiphenylamine (1)	810.	U	
101-55-3	4-Bromophenyl-phenylether	810.	U	
118-74-1	Hexachlorobenzene	810.	U	
87-86-5	Pentachlorophenol	3900.	U	
85-01-8	Phenanthrene	810.	U	
120-12-7	Anthracene	810.	U	
84-74-2	Di-n-butylphthalate	810 ~~160~~.	~~BJ~~ U	ZR 4-17
206-44-0	Fluoranthene	810.	U	
129-00-0	Pyrene	810.	U	
85-68-7	Butylbenzylphthalate	810.	U	
91-94-1	3,3'-Dichlorobenzidine	1600.	U	
56-55-3	Benzo(a)anthracene	810.	U	
218-01-9	Chrysene	810.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	810 ~~240~~.	~~BJ~~ U	ZR 4-17
117-84-0	Di-n-octylphthalate	810.	U	
205-99-2	Benzo(b)fluoranthene	810.	U	
207-08-9	Benzo(k)fluoranthene	810.	U	
50-32-8	Benzo(a)pyrene	810.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	810.	U	
53-70-3	Dibenz(a,h)anthracene	810.	U	
191-24-2	Benzo(g,h,i)perylene	810.	U	

(1) - Cannot be separated from diphenylamine

447

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW73

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9004

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	106-97-8	Butane (8CI9CI)	6.26	2000.	J
2.	- -	UNKNOWN HYDROCARBON	19.00	300.	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW73 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9025

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/22/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	810.	U
111-44-4	bis(2-Chloroethyl)ether	810.	U
95-57-8	2-Chlorophenol	810.	U
541-73-1	1,3-Dichlorobenzene	810.	U
106-46-7	1,4-Dichlorobenzene	810.	U
100-51-6	Benzyl alcohol	810.	U
95-50-1	1,2-Dichlorobenzene	810.	U
95-48-7	2-Methylphenol	810.	U
108-60-1	bis(2-chloroisopropyl)ether	810.	U
106-44-5	4-Methylphenol	810.	U
621-64-7	N-Nitroso-di-n-propylamine	810.	U
67-72-1	Hexachloroethane	810.	U
98-95-3	Nitrobenzene	810.	U
78-59-1	Isophorone	810.	U
88-75-5	2-Nitrophenol	810.	U
105-67-9	2,4-Dimethylphenol	810.	U
65-85-0	Benzoic acid	3900.	U
111-91-1	bis(2-Chloroethoxy)methane	810.	U
120-83-2	2,4-Dichlorophenol	810.	U
120-82-1	1,2,4-Trichlorobenzene	810.	U
91-20-3	Naphthalene	810.	U
106-47-8	4-Chloroaniline	810.	U
87-68-3	Hexachlorobutadiene	810.	U
59-50-7	4-Chloro-3-methylphenol	810.	U
91-57-6	2-Methylnaphthalene	810.	U
77-47-4	Hexachlorocyclopentadiene	810.	U
88-06-2	2,4,6-Trichlorophenol	810.	U
95-95-4	2,4,5-Trichlorophenol	3900.	U
91-58-7	2-Chloronaphthalene	810.	U
88-74-4	2-Nitroaniline	3900.	U
131-11-3	Dimethylphthalate	810.	U
208-96-8	Acenaphthylene	810.	U
606-20-2	2,6-Dinitrotoluene	810.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW73 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9025

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/22/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	3900.	U	
83-32-9	Acenaphthene	810.	U	
51-28-5	2,4-Dinitrophenol	3900.	U	
100-02-7	4-Nitrophenol	3900.	U	
132-64-9	Dibenzofuran	810.	U	
121-14-2	2,4-Dinitrotoluene	810.	U	
84-66-2	Diethylphthalate	810.	U	
7005-72-3	4-Chlorophenyl-phenylether	810.	U	
86-73-7	Fluorene	810.	U	
100-01-6	4-Nitroaniline	3900.	U	
534-52-1	4,6-Dinitro-2-methylphenol	3900.	U	
86-30-6	N-Nitrosodiphenylamine (1)	810.	U	
101-55-3	4-Bromophenyl-phenylether	810.	U	
118-74-1	Hexachlorobenzene	810.	U	
87-86-5	Pentachlorophenol	3900.	U	
85-01-8	Phenanthrene	810.	U	
120-12-7	Anthracene	810.	U	
84-74-2	Di-n-butylphthalate	810 ~~170~~.	~~BJ~~ U	ZR 4-17
206-44-0	Fluoranthene	810.	U	
129-00-0	Pyrene	810.	U	
85-68-7	Butylbenzylphthalate	810.	U	
91-94-1	3,3'-Dichlorobenzidine	1600.	U	
56-55-3	Benzo(a)anthracene	810.	U	
218-01-9	Chrysene	810.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	810 ~~230~~.	~~BJ~~ U	ZR 4-17
117-84-0	Di-n-octylphthalate	810.	U	
205-99-2	Benzo(b)fluoranthene	810.	U	
207-08-9	Benzo(k)fluoranthene	810.	U	
50-32-8	Benzo(a)pyrene	810.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	810.	U	
53-70-3	Dibenz(a,h)anthracene	810.	U	
191-24-2	Benzo(g,h,i)perylene	810.	U	

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW73 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9025

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/22/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	6.18	2000.	J
2. - -	UNKNOWN HYDROCARBON	18.98	300.	J
3. - -	UNKNOWN	24.60	400.	J
4. - -	UNKNOWN HYDROCARBON	25.15	300.	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW74

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9005

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 24. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	870.	U
111-44-4	bis(2-Chloroethyl)ether	870.	U
95-57-8	2-Chlorophenol	870.	U
541-73-1	1,3-Dichlorobenzene	870.	U
106-46-7	1,4-Dichlorobenzene	870.	U
100-51-6	Benzyl alcohol	870.	U
95-50-1	1,2-Dichlorobenzene	870.	U
95-48-7	2-Methylphenol	870.	U
108-60-1	bis(2-chloroisopropyl)ether	870.	U
106-44-5	4-Methylphenol	870.	U
621-64-7	N-Nitroso-di-n-propylamine	870.	U
67-72-1	Hexachloroethane	870.	U
98-95-3	Nitrobenzene	870.	U
78-59-1	Isophorone	870.	U
88-75-5	2-Nitrophenol	870.	U
105-67-9	2,4-Dimethylphenol	870.	U
65-85-0	Benzoic acid	4200.	U
111-91-1	bis(2-Chloroethoxy)methane	870.	U
120-83-2	2,4-Dichlorophenol	870.	U
120-82-1	1,2,4-Trichlorobenzene	870.	U
91-20-3	Naphthalene	870.	U
106-47-8	4-Chloroaniline	870.	U
87-68-3	Hexachlorobutadiene	870.	U
59-50-7	4-Chloro-3-methylphenol	870.	U
91-57-6	2-Methylnaphthalene	870.	U
77-47-4	Hexachlorocyclopentadiene	870.	U
88-06-2	2,4,6-Trichlorophenol	870.	U
95-95-4	2,4,5-Trichlorophenol	4200.	U
91-58-7	2-Chloronaphthalene	870.	U
88-74-4	2-Nitroaniline	4200.	U
131-11-3	Dimethylphthalate	870.	U
208-96-8	Acenaphthylene	870.	U
606-20-2	2,6-Dinitrotoluene	870.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW74

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9005

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 24. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	4200.	U	
83-32-9	Acenaphthene	870.	U	
51-28-5	2,4-Dinitrophenol	4200.	U	
100-02-7	4-Nitrophenol	4200.	U	
132-64-9	Dibenzofuran	870.	U	
121-14-2	2,4-Dinitrotoluene	870.	U	
84-66-2	Diethylphthalate	870.	U	
7005-72-3	4-Chlorophenyl-phenylether	870.	U	
86-73-7	Fluorene	870.	U	
100-01-6	4-Nitroaniline	4200.	U	
534-52-1	4,6-Dinitro-2-methylphenol	4200.	U	
86-30-6	N-Nitrosodiphenylamine (1)	870.	U	
101-55-3	4-Bromophenyl-phenylether	870.	U	
118-74-1	Hexachlorobenzene	870.	U	
87-86-5	Pentachlorophenol	4200.	U	
85-01-8	Phenanthrene	870.	U	
120-12-7	Anthracene	870.	U	
84-74-2	Di-n-butylphthalate	870 ~~210~~.	~~BJ~~ U	ZR 4-17
206-44-0	Fluoranthene	870.	U	
129-00-0	Pyrene	870.	U	
85-68-7	Butylbenzylphthalate	870.	U	
91-94-1	3,3'-Dichlorobenzidine	1700.	U	
56-55-3	Benzo(a)anthracene	870.	U	
218-01-9	Chrysene	870.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	870 ~~250~~.	~~BJ~~ U	ZR 4-17
117-84-0	Di-n-octylphthalate	870.	U	
205-99-2	Benzo(b)fluoranthene	870.	U	
207-08-9	Benzo(k)fluoranthene	870.	U	
50-32-8	Benzo(a)pyrene	870.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	870.	U	
53-70-3	Dibenz(a,h)anthracene	870.	U	
191-24-2	Benzo(g,h,i)perylene	870.	U	

(1) - Cannot be separated from diphenylamine

540

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9002

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	670.	U
111-44-4	bis(2-Chloroethyl)ether	670.	U
95-57-8	2-Chlorophenol	670.	U
541-73-1	1,3-Dichlorobenzene	670.	U
106-46-7	1,4-Dichlorobenzene	670.	U
100-51-6	Benzyl alcohol	670.	U
95-50-1	1,2-Dichlorobenzene	670.	U
95-48-7	2-Methylphenol	670.	U
108-60-1	bis(2-chloroisopropyl)ether	670.	U
106-44-5	4-Methylphenol	670.	U
621-64-7	N-Nitroso-di-n-propylamine	670.	U
67-72-1	Hexachloroethane	670.	U
98-95-3	Nitrobenzene	670.	U
78-59-1	Isophorone	670.	U
88-75-5	2-Nitrophenol	670.	U
105-67-9	2,4-Dimethylphenol	670.	U
65-85-0	Benzoic acid	3200.	U
111-91-1	bis(2-Chloroethoxy)methane	670.	U
120-83-2	2,4-Dichlorophenol	670.	U
120-82-1	1,2,4-Trichlorobenzene	670.	U
91-20-3	Naphthalene	670.	U
106-47-8	4-Chloroaniline	670.	U
87-68-3	Hexachlorobutadiene	670.	U
59-50-7	4-Chloro-3-methylphenol	670.	U
91-57-6	2-Methylnaphthalene	670.	U
77-47-4	Hexachlorocyclopentadiene	670.	U
88-06-2	2,4,6-Trichlorophenol	670.	U
95-95-4	2,4,5-Trichlorophenol	3200.	U
91-58-7	2-Chloronaphthalene	670.	U
88-74-4	2-Nitroaniline	3200.	U
131-11-3	Dimethylphthalate	670.	U
208-96-8	Acenaphthylene	670.	U
606-20-2	2,6-Dinitrotoluene	670.	U

906

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9002

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3200.	U
83-32-9	Acenaphthene	670.	U
51-28-5	2,4-Dinitrophenol	3200.	U
100-02-7	4-Nitrophenol	3200.	U
132-64-9	Dibenzofuran	670.	U
121-14-2	2,4-Dinitrotoluene	670.	U
84-66-2	Diethylphthalate	28.	J
7005-72-3	4-Chlorophenyl-phenylether	670.	U
86-73-7	Fluorene	670.	U
100-01-6	4-Nitroaniline	3200.	U
534-52-1	4,6-Dinitro-2-methylphenol	3200.	U
86-30-6	N-Nitrosodiphenylamine (1)	670.	U
101-55-3	4-Bromophenyl-phenylether	670.	U
118-74-1	Hexachlorobenzene	670.	U
87-86-5	Pentachlorophenol	3200.	U
85-01-8	Phenanthrene	670.	U
120-12-7	Anthracene	670.	U
84-74-2	Di-n-butylphthalate	63.	J
206-44-0	Fluoranthene	670.	U
129-00-0	Pyrene	670.	U
85-68-7	Butylbenzylphthalate	670.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U
56-55-3	Benzo(a)anthracene	670.	U
218-01-9	Chrysene	670.	U
117-81-7	bis(2-Ethylhexyl)phthalate	170.	J
117-84-0	Di-n-octylphthalate	670.	U
205-99-2	Benzo(b)fluoranthene	670.	U
207-08-9	Benzo(k)fluoranthene	670.	U
50-32-8	Benzo(a)pyrene	670.	U
193-39-5	Indeno(1,2,3-cd)pyrene	670.	U
53-70-3	Dibenz(a,h)anthracene	670.	U
191-24-2	Benzo(g,h,i)perylene	670.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKS1

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9002

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS2

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9086

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/21/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 1/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	660.	U
111-44-4	bis(2-Chloroethyl)ether	660.	U
95-57-8	2-Chlorophenol	660.	U
541-73-1	1,3-Dichlorobenzene	660.	U
106-46-7	1,4-Dichlorobenzene	660.	U
100-51-6	Benzyl alcohol	660.	U
95-50-1	1,2-Dichlorobenzene	660.	U
95-48-7	2-Methylphenol	660.	U
108-60-1	bis(2-chloroisopropyl)ether	660.	U
106-44-5	4-Methylphenol	660.	U
621-64-7	N-Nitroso-di-n-propylamine	660.	U
67-72-1	Hexachloroethane	660.	U
98-95-3	Nitrobenzene	660.	U
78-59-1	Isophorone	660.	U
88-75-5	2-Nitrophenol	660.	U
105-67-9	2,4-Dimethylphenol	660.	U
65-85-0	Benzoic acid	3200.	U
111-91-1	bis(2-Chloroethoxy)methane	660.	U
120-83-2	2,4-Dichlorophenol	660.	U
120-82-1	1,2,4-Trichlorobenzene	660.	U
91-20-3	Naphthalene	660.	U
106-47-8	4-Chloroaniline	660.	U
87-68-3	Hexachlorobutadiene	660.	U
59-50-7	4-Chloro-3-methylphenol	660.	U
91-57-6	2-Methylnaphthalene	660.	U
77-47-4	Hexachlorocyclopentadiene	660.	U
88-06-2	2,4,6-Trichlorophenol	660.	U
95-95-4	2,4,5-Trichlorophenol	3200.	U
91-58-7	2-Chloronaphthalene	660.	U
88-74-4	2-Nitroaniline	3200.	U
131-11-3	Dimethylphthalate	660.	U
208-96-8	Acenaphthylene	660.	U
606-20-2	2,6-Dinitrotoluene	660.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS2

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9086

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/21/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 1/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3200.	U
83-32-9	Acenaphthene	660.	U
51-28-5	2,4-Dinitrophenol	3200.	U
100-02-7	4-Nitrophenol	3200.	U
132-64-9	Dibenzofuran	660.	U
121-14-2	2,4-Dinitrotoluene	660.	U
84-66-2	Diethylphthalate	660.	U
7005-72-3	4-Chlorophenyl-phenylether	660.	U
86-73-7	Fluorene	660.	U
100-01-6	4-Nitroaniline	3200.	U
534-52-1	4,6-Dinitro-2-methylphenol	3200.	U
86-30-6	N-Nitrosodiphenylamine (1)	660.	U
101-55-3	4-Bromophenyl-phenylether	660.	U
118-74-1	Hexachlorobenzene	660.	U
87-86-5	Pentachlorophenol	3200.	U
85-01-8	Phenanthrene	660.	U
120-12-7	Anthracene	660.	U
84-74-2	Di-n-butylphthalate	87.	J
206-44-0	Fluoranthene	660.	U
129-00-0	Pyrene	660.	U
85-68-7	Butylbenzylphthalate	660.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U
56-55-3	Benzo(a)anthracene	660.	U
218-01-9	Chrysene	660.	U
117-81-7	bis(2-Ethylhexyl)phthalate	520.	J
117-84-0	Di-n-octylphthalate	660.	U
205-99-2	Benzo(b)fluoranthene	660.	U
207-08-9	Benzo(k)fluoranthene	660.	U
50-32-8	Benzo(a)pyrene	660.	U
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U
53-70-3	Dibenz(a,h)anthracene	660.	U
191-24-2	Benzo(g,h,i)perylene	660.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKS2

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9086

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/21/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 1/91

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.00

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	6.04	1000.	J
2. - -	UNKNOWN	8.51	300.	J
3. - -	UNKNOWN	24.54	4000.	J
4. - -	UNKNOWN	26.44	500.	J
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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2017

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/22/91

GPC Cleanup: (Y/N) Y pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	16.	U
319-85-7	BETA-BHC	16.	U
319-86-8	DELTA-BHC	16.	U
58-89-9	GAMMA-BHC	16.	U
76-44-8	HEPTACHLOR	16.	U
309-00-2	ALDRIN	16.	U
1024-57-3	HEPTACHLOR EPOXIDE	16.	U
959-98-8	ENDOSULFAN I	16.	U
60-57-1	DIELDRIN	32.	U
72-55-9	4,4'-DDE	32.	U
72-20-8	ENDRIN	32.	U
33213-65-9	ENDOSULFAN II	32.	U
72-54-8	4,4'-DDD	32.	U
1031-07-8	ENDOSULFAN SULFATE	32.	U
50-29-3	4,4'-DDT	32.	U
72-43-5	METHOXYCHLOR	160.	U
53494-70-5	ENDRIN KETONE	32.	U
5103-71-9	ALPHA-CHLORDANE	160.	U
5103-74-2	GAMMA-CHLORDANE	160.	U
8001-35-2	TOXAPHENE	320.	U
12674-11-2	AROCLOR-1016	160.	U
11104-28-2	AROCLOR-1221	160.	U
11141-16-5	AROCLOR-1232	160.	U
53469-21-9	AROCLOR-1242	160.	U
12672-29-6	AROCLOR-1248	160.	U
11097-69-1	AROCLOR-1254	320.	U
11096-82-5	AROCLOR-1260	320.	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW74

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9005

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 24. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	6.27	2000.	J
2. - -	UNKNOWN HYDROCARBON	28.49	400.	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW75

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9006

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 19. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	830.	U
111-44-4	bis(2-Chloroethyl)ether	830.	U
95-57-8	2-Chlorophenol	830.	U
541-73-1	1,3-Dichlorobenzene	830.	U
106-46-7	1,4-Dichlorobenzene	830.	U
100-51-6	Benzyl alcohol	830.	U
95-50-1	1,2-Dichlorobenzene	830.	U
95-48-7	2-Methylphenol	830.	U
108-60-1	bis(2-chloroisopropyl)ether	830.	U
106-44-5	4-Methylphenol	830.	U
621-64-7	N-Nitroso-di-n-propylamine	830.	U
67-72-1	Hexachloroethane	830.	U
98-95-3	Nitrobenzene	830.	U
78-59-1	Isophorone	830.	U
88-75-5	2-Nitrophenol	830.	U
105-67-9	2,4-Dimethylphenol	830.	U
65-85-0	Benzoic acid	4000.	U
111-91-1	bis(2-Chloroethoxy)methane	830.	U
120-83-2	2,4-Dichlorophenol	830.	U
120-82-1	1,2,4-Trichlorobenzene	830.	U
91-20-3	Naphthalene	830.	U
106-47-8	4-Chloroaniline	830.	U
87-68-3	Hexachlorobutadiene	830.	U
59-50-7	4-Chloro-3-methylphenol	830.	U
91-57-6	2-Methylnaphthalene	830.	U
77-47-4	Hexachlorocyclopentadiene	830.	U
88-06-2	2,4,6-Trichlorophenol	830.	U
95-95-4	2,4,5-Trichlorophenol	4000.	U
91-58-7	2-Chloronaphthalene	830.	U
88-74-4	2-Nitroaniline	4000.	U
131-11-3	Dimethylphthalate	830.	U
208-96-8	Acenaphthylene	830.	U
606-20-2	2,6-Dinitrotoluene	830.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW75

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9006

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 19. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	4000.	U	
83-32-9	Acenaphthene	830.	U	
51-28-5	2,4-Dinitrophenol	4000.	U	
100-02-7	4-Nitrophenol	4000.	U	
132-64-9	Dibenzofuran	830.	U	
121-14-2	2,4-Dinitrotoluene	830.	U	
84-66-2	Diethylphthalate	830.	U	
7005-72-3	4-Chlorophenyl-phenylether	830.	U	
86-73-7	Fluorene	830.	U	
100-01-6	4-Nitroaniline	4000.	U	
534-52-1	4,6-Dinitro-2-methylphenol	4000.	U	
86-30-6	N-Nitrosodiphenylamine (1)	830.	U	
101-55-3	4-Bromophenyl-phenylether	830.	U	
118-74-1	Hexachlorobenzene	830.	U	
87-86-5	Pentachlorophenol	4000.	U	
85-01-8	Phenanthrene	230.	J	
120-12-7	Anthracene	830.	U	
84-74-2	Di-n-butylphthalate	830 ~~130.~~	~~BJ~~ U	ZR 4-17
206-44-0	Fluoranthene	550.	J	
129-00-0	Pyrene	440.	J	
85-68-7	Butylbenzylphthalate	830.	U	
91-94-1	3,3'-Dichlorobenzidine	1600.	U	
56-55-3	Benzo(a)anthracene	260.	J	
218-01-9	Chrysene	290.	J	
117-81-7	bis(2-Ethylhexyl)phthalate	830 ~~170.~~	~~BJ~~ U	ZR 4-17
117-84-0	Di-n-octylphthalate	830.	U	
205-99-2	Benzo(b)fluoranthene	210.	J	
207-08-9	Benzo(k)fluoranthene	340.	J	
50-32-8	Benzo(a)pyrene	240.	J	
193-39-5	Indeno(1,2,3-cd)pyrene	160.	J	
53-70-3	Dibenz(a,h)anthracene	830.	U	
191-24-2	Benzo(g,h,i)perylene	170.	J	

(1) - Cannot be separated from diphenylamine

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW75

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9006

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 19. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	6.27	2000.	J
2.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW76

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9087

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 17. dec. 0. Date Extracted: 3/21/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 1/91

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800.	U
111-44-4	bis(2-Chloroethyl)ether	800.	U
95-57-8	2-Chlorophenol	800.	U
541-73-1	1,3-Dichlorobenzene	800.	U
106-46-7	1,4-Dichlorobenzene	800.	U
100-51-6	Benzyl alcohol	800.	U
95-50-1	1,2-Dichlorobenzene	800.	U
95-48-7	2-Methylphenol	800.	U
108-60-1	bis(2-chloroisopropyl)ether	800.	U
106-44-5	4-Methylphenol	800.	U
621-64-7	N-Nitroso-di-n-propylamine	800.	U
67-72-1	Hexachloroethane	800.	U
98-95-3	Nitrobenzene	800.	U
78-59-1	Isophorone	800.	U
88-75-5	2-Nitrophenol	800.	U
105-67-9	2,4-Dimethylphenol	800.	U
65-85-0	Benzoic acid	3900.	U
111-91-1	bis(2-Chloroethoxy)methane	800.	U
120-83-2	2,4-Dichlorophenol	800.	U
120-82-1	1,2,4-Trichlorobenzene	800.	U
91-20-3	Naphthalene	800.	U
106-47-8	4-Chloroaniline	800.	U
87-68-3	Hexachlorobutadiene	800.	U
59-50-7	4-Chloro-3-methylphenol	800.	U
91-57-6	2-Methylnaphthalene	130.	J
77-47-4	Hexachlorocyclopentadiene	800.	U
88-06-2	2,4,6-Trichlorophenol	800.	U
95-95-4	2,4,5-Trichlorophenol	3900.	U
91-58-7	2-Chloronaphthalene	800.	U
88-74-4	2-Nitroaniline	3900.	U
131-11-3	Dimethylphthalate	800.	U
208-96-8	Acenaphthylene	800.	U
606-20-2	2,6-Dinitrotoluene	800.	U

604

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW76

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9087

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 17. dec. 0. Date Extracted: 3/21/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 1/91

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	3900.	U	
83-32-9	Acenaphthene	800.	U	
51-28-5	2,4-Dinitrophenol	3900.	U	
100-02-7	4-Nitrophenol	3900.	U	
132-64-9	Dibenzofuran	800.	U	
121-14-2	2,4-Dinitrotoluene	800.	U	
84-66-2	Diethylphthalate	800.	U	
7005-72-3	4-Chlorophenyl-phenylether	800.	U	
86-73-7	Fluorene	800.	U	
100-01-6	4-Nitroaniline	3900.	U	
534-52-1	4,6-Dinitro-2-methylphenol	3900.	U	
86-30-6	N-Nitrosodiphenylamine (1)	800.	U	
101-55-3	4-Bromophenyl-phenylether	800.	U	
118-74-1	Hexachlorobenzene	800.	U	
87-86-5	Pentachlorophenol	3900.	U	
85-01-8	Phenanthrene	92.	J	
120-12-7	Anthracene	800.	U	
84-74-2	Di-n-butylphthalate	800 ~~100~~.	~~B~~ J U	4-17
206-44-0	Fluoranthene	400.	J	
129-00-0	Pyrene	310.	J	
85-68-7	Butylbenzylphthalate	800.	U	
91-94-1	3,3'-Dichlorobenzidine	1600.	U	
56-55-3	Benzo(a)anthracene	140.	J	
218-01-9	Chrysene	160.	J	
117-81-7	bis(2-Ethylhexyl)phthalate	800 ~~160~~.	~~B~~ J U	ZR 4-17
117-84-0	Di-n-octylphthalate	800.	U	
205-99-2	Benzo(b)fluoranthene	110.	J	
207-08-9	Benzo(k)fluoranthene	120.	J	
50-32-8	Benzo(a)pyrene	91.	J	
193-39-5	Indeno(1,2,3-cd)pyrene	800.	U	
53-70-3	Dibenz(a,h)anthracene	800.	U	
191-24-2	Benzo(g,h,i)perylene	800.	U	

(1) - Cannot be separated from diphenylamine

FORM I SV-2 1/87 Rev.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW76

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9087

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 17. dec. 0. Date Extracted: 3/21/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 1/91

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	6.06	2000.	J
2. - -	UNKNOWN HYDROCARBON	10.43	600.	J
3. - -	UNKNOWN HYDROCARBON	12.15	600.	J
4. - -	UNKNOWN HYDROCARBON	12.36	400.	J
5. - -	UNKNOWN HYDROCARBON	13.67	600.	J
6. - -	UNKNOWN HYDROCARBON	15.07	600.	J
7. - -	UNKNOWN HYDROCARBON	15.88	500.	J
8. - -	UNKNOWN HYDROCARBON	16.37	600.	J
9. - -	UNKNOWN HYDROCARBON	17.59	600.	J
10. - -	UNKNOWN HYDROCARBON	18.17	400.	J
11. - -	UNKNOWN HYDROCARBON	18.75	500.	J
12. - -	UNKNOWN HYDROCARBON	18.83	800.	J
13. - -	UNKNOWN HYDROCARBON	19.86	300.	J
14. - -	UNKNOWN HYDROCARBON	19.96	400.	J
15. - -	UNKNOWN HYDROCARBON	20.91	400.	J
16. - -	UNKNOWN	21.90	300.	J
17. 10544-50-0	Sulfur, mol. (S8) (8CI9CI)	22.17	900.	J
18. - -	UNKNOWN	22.52	400.	J
19. - -	UNKNOWN HYDROCARBON	28.26	600.	J
20. - -	UNKNOWN	32.38	300.	J
21. - -	UNKNOWN	33.63	400.	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW77

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9008

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	870.	U
111-44-4	bis(2-Chloroethyl)ether	870.	U
95-57-8	2-Chlorophenol	870.	U
541-73-1	1,3-Dichlorobenzene	870.	U
106-46-7	1,4-Dichlorobenzene	870.	U
100-51-6	Benzyl alcohol	870.	U
95-50-1	1,2-Dichlorobenzene	870.	U
95-48-7	2-Methylphenol	870.	U
108-60-1	bis(2-chloroisopropyl)ether	870.	U
106-44-5	4-Methylphenol	870.	U
621-64-7	N-Nitroso-di-n-propylamine	870.	U
67-72-1	Hexachloroethane	870.	U
98-95-3	Nitrobenzene	870.	U
78-59-1	Isophorone	870.	U
88-75-5	2-Nitrophenol	870.	U
105-67-9	2,4-Dimethylphenol	870.	U
65-85-0	Benzoic acid	4200.	U
111-91-1	bis(2-Chloroethoxy)methane	870.	U
120-83-2	2,4-Dichlorophenol	870.	U
120-82-1	1,2,4-Trichlorobenzene	870.	U
91-20-3	Naphthalene	870.	U
106-47-8	4-Chloroaniline	870.	U
87-68-3	Hexachlorobutadiene	870.	U
59-50-7	4-Chloro-3-methylphenol	870.	U
91-57-6	2-Methylnaphthalene	870.	U
77-47-4	Hexachlorocyclopentadiene	870.	U
88-06-2	2,4,6-Trichlorophenol	870.	U
95-95-4	2,4,5-Trichlorophenol	4200.	U
91-58-7	2-Chloronaphthalene	870.	U
88-74-4	2-Nitroaniline	4200.	U
131-11-3	Dimethylphthalate	870.	U
208-96-8	Acenaphthylene	870.	U
606-20-2	2,6-Dinitrotoluene	870.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW77

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9008

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	4200.	U	
83-32-9	Acenaphthene	870.	U	
51-28-5	2,4-Dinitrophenol	4200.	U	
100-02-7	4-Nitrophenol	4200.	U	
132-64-9	Dibenzofuran	870.	U	
121-14-2	2,4-Dinitrotoluene	870.	U	
84-66-2	Diethylphthalate	870.	U	
7005-72-3	4-Chlorophenyl-phenylether	870.	U	
86-73-7	Fluorene	870.	U	
100-01-6	4-Nitroaniline	4200.	U	
534-52-1	4,6-Dinitro-2-methylphenol	4200.	U	
86-30-6	N-Nitrosodiphenylamine (1)	870.	U	
101-55-3	4-Bromophenyl-phenylether	870.	U	
118-74-1	Hexachlorobenzene	870.	U	
87-86-5	Pentachlorophenol	4200.	U	
85-01-8	Phenanthrene	130.	J	
120-12-7	Anthracene	870.	U	
84-74-2	Di-n-butylphthalate	870 ~~250.~~	~~BJ~~ U	ZR 4-17
206-44-0	Fluoranthene	200.	J	
129-00-0	Pyrene	160.	J	
85-68-7	Butylbenzylphthalate	870.	U	
91-94-1	3,3'-Dichlorobenzidine	1700.	U	
56-55-3	Benzo(a)anthracene	870.	U	
218-01-9	Chrysene	870.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	870 ~~320.~~	~~BJ~~ U	ZR 4-17
117-84-0	Di-n-octylphthalate	870.	U	
205-99-2	Benzo(b)fluoranthene	870.	U	
207-08-9	Benzo(k)fluoranthene	870.	U	
50-32-8	Benzo(a)pyrene	870.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	870.	U	
53-70-3	Dibenz(a,h)anthracene	870.	U	
191-24-2	Benzo(g,h,i)perylene	870.	U	

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW77

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9008

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	6.26	2000.	J
2. - -	UNKNOWN HYDROCARBON	13.84	400.	J
3. - -	UNKNOWN HYDROCARBON	16.54	400.	J
4. - -	UNKNOWN HYDROCARBON	17.76	300.	J
5. - -	UNKNOWN HYDROCARBON	19.00	500.	J
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663

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW78

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9009

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	830.	U
111-44-4	bis(2-Chloroethyl)ether	830.	U
95-57-8	2-Chlorophenol	830.	U
541-73-1	1,3-Dichlorobenzene	830.	U
106-46-7	1,4-Dichlorobenzene	830.	U
100-51-6	Benzyl alcohol	830.	U
95-50-1	1,2-Dichlorobenzene	830.	U
95-48-7	2-Methylphenol	830.	U
108-60-1	bis(2-chloroisopropyl)ether	830.	U
106-44-5	4-Methylphenol	830.	U
621-64-7	N-Nitroso-di-n-propylamine	830.	U
67-72-1	Hexachloroethane	830.	U
98-95-3	Nitrobenzene	830.	U
78-59-1	Isophorone	830.	U
88-75-5	2-Nitrophenol	830.	U
105-67-9	2,4-Dimethylphenol	830.	U
65-85-0	Benzoic acid	4000.	U
111-91-1	bis(2-Chloroethoxy)methane	830.	U
120-83-2	2,4-Dichlorophenol	830.	U
120-82-1	1,2,4-Trichlorobenzene	830.	U
91-20-3	Naphthalene	830.	U
106-47-8	4-Chloroaniline	830.	U
87-68-3	Hexachlorobutadiene	830.	U
59-50-7	4-Chloro-3-methylphenol	830.	U
91-57-6	2-Methylnaphthalene	830.	U
77-47-4	Hexachlorocyclopentadiene	830.	U
88-06-2	2,4,6-Trichlorophenol	830.	U
95-95-4	2,4,5-Trichlorophenol	4000.	U
91-58-7	2-Chloronaphthalene	830.	U
88-74-4	2-Nitroaniline	4000.	U
131-11-3	Dimethylphthalate	830.	U
208-96-8	Acenaphthylene	830.	U
606-20-2	2,6-Dinitrotoluene	830.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW78

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9009

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4000.	U
83-32-9	Acenaphthene	830.	U
51-28-5	2,4-Dinitrophenol	4000.	U
100-02-7	4-Nitrophenol	4000.	U
132-64-9	Dibenzofuran	830.	U
121-14-2	2,4-Dinitrotoluene	830.	U
84-66-2	Diethylphthalate	830.	U
7005-72-3	4-Chlorophenyl-phenylether	830.	U
86-73-7	Fluorene	830.	U
100-01-6	4-Nitroaniline	4000.	U
534-52-1	4,6-Dinitro-2-methylphenol	4000.	U
86-30-6	N-Nitrosodiphenylamine (1)	830.	U
101-55-3	4-Bromophenyl-phenylether	830.	U
118-74-1	Hexachlorobenzene	830.	U
87-86-5	Pentachlorophenol	4000.	U
85-01-8	Phenanthrene	250.	J
120-12-7	Anthracene	830.	U
84-74-2	Di-n-butylphthalate	830 ~~340.~~	~~BJ~~ U
206-44-0	Fluoranthene	550.	J
129-00-0	Pyrene	470.	J
85-68-7	Butylbenzylphthalate	830.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U
56-55-3	Benzo(a)anthracene	260.	J
218-01-9	Chrysene	330.	J
117-81-7	bis(2-Ethylhexyl)phthalate	830 ~~230.~~	~~BJ~~ U
117-84-0	Di-n-octylphthalate	830.	U
205-99-2	Benzo(b)fluoranthene	240.	J
207-08-9	Benzo(k)fluoranthene	230.	J
50-32-8	Benzo(a)pyrene	200.	J
193-39-5	Indeno(1,2,3-cd)pyrene	110.	J
53-70-3	Dibenz(a,h)anthracene	830.	U
191-24-2	Benzo(g,h,i)perylene	100.	J

(1) - Cannot be separated from diphenylamine

712

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW78

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.0 (g/mL) G Lab File ID: D9009

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	6.27	2000.	J
2.				
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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EMW79

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9010

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 35. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1000.	U
111-44-4	bis(2-Chloroethyl)ether	1000.	U
95-57-8	2-Chlorophenol	1000.	U
541-73-1	1,3-Dichlorobenzene	1000.	U
106-46-7	1,4-Dichlorobenzene	1000.	U
100-51-6	Benzyl alcohol	1000.	U
95-50-1	1,2-Dichlorobenzene	1000.	U
95-48-7	2-Methylphenol	1000.	U
108-60-1	bis(2-chloroisopropyl)ether	1000.	U
106-44-5	4-Methylphenol	1000.	U
621-64-7	N-Nitroso-di-n-propylamine	1000.	U
67-72-1	Hexachloroethane	1000.	U
98-95-3	Nitrobenzene	1000.	U
78-59-1	Isophorone	1000.	U
88-75-5	2-Nitrophenol	1000.	U
105-67-9	2,4-Dimethylphenol	1000.	U
65-85-0	Benzoic acid	4900.	U
111-91-1	bis(2-Chloroethoxy)methane	1000.	U
120-83-2	2,4-Dichlorophenol	1000.	U
120-82-1	1,2,4-Trichlorobenzene	1000.	U
91-20-3	Naphthalene	1000.	U
106-47-8	4-Chloroaniline	1000.	U
87-68-3	Hexachlorobutadiene	1000.	U
59-50-7	4-Chloro-3-methylphenol	1000.	U
91-57-6	2-Methylnaphthalene	1000.	U
77-47-4	Hexachlorocyclopentadiene	1000.	U
88-06-2	2,4,6-Trichlorophenol	1000.	U
95-95-4	2,4,5-Trichlorophenol	4900.	U
91-58-7	2-Chloronaphthalene	1000.	U
88-74-4	2-Nitroaniline	4900.	U
131-11-3	Dimethylphthalate	1000.	U
208-96-8	Acenaphthylene	1000.	U
606-20-2	2,6-Dinitrotoluene	1000.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW79

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9010

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 35. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	4900.	U	
83-32-9	Acenaphthene	1000.	U	
51-28-5	2,4-Dinitrophenol	4900.	U	
100-02-7	4-Nitrophenol	4900.	U	
132-64-9	Dibenzofuran	1000.	U	
121-14-2	2,4-Dinitrotoluene	1000.	U	
84-66-2	Diethylphthalate	1000.	U	
7005-72-3	4-Chlorophenyl-phenylether	1000.	U	
86-73-7	Fluorene	1000.	U	
100-01-6	4-Nitroaniline	4900.	U	
534-52-1	4,6-Dinitro-2-methylphenol	4900.	U	
86-30-6	N-Nitrosodiphenylamine (1)	1000.	U	
101-55-3	4-Bromophenyl-phenylether	1000.	U	
118-74-1	Hexachlorobenzene	1000.	U	
87-86-5	Pentachlorophenol	4900.	U	
85-01-8	Phenanthrene	1000.	U	
120-12-7	Anthracene	1000.	U	
84-74-2	Di-n-butylphthalate	1000 ~~510~~.	~~BJ~~ U	ZR 4-17
206-44-0	Fluoranthene	1000.	U	
129-00-0	Pyrene	1000.	U	
85-68-7	Butylbenzylphthalate	1000.	U	
91-94-1	3,3'-Dichlorobenzidine	2000.	U	
56-55-3	Benzo(a)anthracene	1000.	U	
218-01-9	Chrysene	1000.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	1000 ~~240~~.	~~BJ~~ U	ZR 4-17
117-84-0	Di-n-octylphthalate	1000.	U	
205-99-2	Benzo(b)fluoranthene	1000.	U	
207-08-9	Benzo(k)fluoranthene	1000.	U	
50-32-8	Benzo(a)pyrene	1000.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1000.	U	
53-70-3	Dibenz(a,h)anthracene	1000.	U	
191-24-2	Benzo(g,h,i)perylene	1000.	U	

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW79

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9010

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 35. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.00

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	6.26	2000.	J
2. - -	UNKNOWN HYDROCARBON	18.99	400.	J
3. - -	UNKNOWN HYDROCARBON	27.09	800.	J
4. - -	UNKNOWN HYDROCARBON	28.48	800.	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW80

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9011

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 26. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	900.	U
111-44-4	bis(2-Chloroethyl)ether	900.	U
95-57-8	2-Chlorophenol	900.	U
541-73-1	1,3-Dichlorobenzene	900.	U
106-46-7	1,4-Dichlorobenzene	900.	U
100-51-6	Benzyl alcohol	900.	U
95-50-1	1,2-Dichlorobenzene	900.	U
95-48-7	2-Methylphenol	900.	U
108-60-1	bis(2-chloroisopropyl)ether	900.	U
106-44-5	4-Methylphenol	900.	U
621-64-7	N-Nitroso-di-n-propylamine	900.	U
67-72-1	Hexachloroethane	900.	U
98-95-3	Nitrobenzene	900.	U
78-59-1	Isophorone	900.	U
88-75-5	2-Nitrophenol	900.	U
105-67-9	2,4-Dimethylphenol	900.	U
65-85-0	Benzoic acid	4400.	U
111-91-1	bis(2-Chloroethoxy)methane	900.	U
120-83-2	2,4-Dichlorophenol	900.	U
120-82-1	1,2,4-Trichlorobenzene	900.	U
91-20-3	Naphthalene	900.	U
106-47-8	4-Chloroaniline	900.	U
87-68-3	Hexachlorobutadiene	900.	U
59-50-7	4-Chloro-3-methylphenol	900.	U
91-57-6	2-Methylnaphthalene	900.	U
77-47-4	Hexachlorocyclopentadiene	900.	U
88-06-2	2,4,6-Trichlorophenol	900.	U
95-95-4	2,4,5-Trichlorophenol	4400.	U
91-58-7	2-Chloronaphthalene	900.	U
88-74-4	2-Nitroaniline	4400.	U
131-11-3	Dimethylphthalate	900.	U
208-96-8	Acenaphthylene	900.	U
606-20-2	2,6-Dinitrotoluene	900.	U

812

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW80

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9011

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 26. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
99-09-2	3-Nitroaniline	4400.	U	
83-32-9	Acenaphthene	900.	U	
51-28-5	2,4-Dinitrophenol	4400.	U	
100-02-7	4-Nitrophenol	4400.	U	
132-64-9	Dibenzofuran	900.	U	
121-14-2	2,4-Dinitrotoluene	900.	U	
84-66-2	Diethylphthalate	900.	U	
7005-72-3	4-Chlorophenyl-phenylether	900.	U	
86-73-7	Fluorene	900.	U	
100-01-6	4-Nitroaniline	4400.	U	
534-52-1	4,6-Dinitro-2-methylphenol	4400.	U	
86-30-6	N-Nitrosodiphenylamine (1)	900.	U	
101-55-3	4-Bromophenyl-phenylether	900.	U	
118-74-1	Hexachlorobenzene	900.	U	
87-86-5	Pentachlorophenol	4400.	U	
85-01-8	Phenanthrene	900.	U	
120-12-7	Anthracene	900.	U	
84-74-2	Di-n-butylphthalate	900 ~~570~~.	~~BJ~~ U	ZR 4-17
206-44-0	Fluoranthene	900.	U	
129-00-0	Pyrene	900.	U	
85-68-7	Butylbenzylphthalate	900.	U	
91-94-1	3,3'-Dichlorobenzidine	1800.	U	
56-55-3	Benzo(a)anthracene	900.	U	
218-01-9	Chrysene	900.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	900 ~~350~~.	~~BJ~~ U	ZR 4-17
117-84-0	Di-n-octylphthalate	900.	U	
205-99-2	Benzo(b)fluoranthene	89.	J	
207-08-9	Benzo(k)fluoranthene	100.	J	
50-32-8	Benzo(a)pyrene	900.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	900.	U	
53-70-3	Dibenz(a,h)anthracene	900.	U	
191-24-2	Benzo(g,h,i)perylene	900.	U	

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EMW80

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30.1 (g/mL) G Lab File ID: D9011

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 26. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/20/91

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.00

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	6.27	2000.	J
2.	- -	UNKNOWN HYDROCARBON	27.09	500.	J
3.	- -	UNKNOWN HYDROCARBON	28.48	700.	J
4.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW72

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F4154

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene chloride	19.	~~B~~ U
67-64-1	Acetone	130.	
75-15-0	Carbon disulfide	2.	J
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	13.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon tetrachloride	6.	U
108-05-4	Vinyl acetate	13.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	2.	J
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	3.	J
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

ZR 4-17-91

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1E

EPA SAMPLE NO.

~~VOLATILE ORGANICS ANALYSIS DATA SHEET~~

TENTATIVELY IDENTIFIED COMPOUNDS

EMW72

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F4154

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	78-78-4	Butane, 2-methyl- (8CI9CI)	3.14	8.	J
2.	109-66-0	Pentane (ACN)(DOT)(8CI9CI)	3.51	9.	J
3.	- -	UNKNOWN	7.70	8.	J
4.	5131-66-8	2-Propanol, 1-butoxy- (8CI9C	19.42	20.	J
5.	- -	UNKNOWN	22.82	20.	J
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EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EMW73

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.7 (g/mL) G Lab File ID: F4148

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. Date Analyzed: 3/ 8/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene chloride	21.	~~B~~ U
67-64-1	Acetone	32.	~~B~~ U
75-15-0	Carbon disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	2.	J
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	4.	J
56-23-5	Carbon tetrachloride	5.	U
108-05-4	Vinyl acetate	11.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	11.	U
591-78-6	2-Hexanone	11.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	34.	~~B~~
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	~~54.~~	~~B~~ U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW73

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.7 (g/mL) G Lab File ID: F4148

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. Date Analyzed: 3/ 8/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	22.92	5.	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW73 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.3 (g/mL) G Lab File ID: F4155

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene chloride	15.	~~B~~ U
67-64-1	Acetone	12.	
75-15-0	Carbon disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	2.	J
56-23-5	Carbon tetrachloride	6.	U
108-05-4	Vinyl acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	15.	
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW73 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.3 (g/mL) G Lab File ID: F4155

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	5131-66-8	2-Propanol, 1-butoxy- (8CI9C	19.42	20.	J
2.	- -	UNKNOWN	22.82	7.	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW74

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.7 (g/mL) G Lab File ID: F4149

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 24. Date Analyzed: 3/ 8/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene chloride	19.	~~B~~ U
67-64-1	Acetone	11.	~~B~~ J U
75-15-0	Carbon disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	2.	J
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon tetrachloride	6.	U
108-05-4	Vinyl acetate	11.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-pentanone	11.	U
591-78-6	2-Hexanone	11.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	62.	~~B~~ J U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	65.	~~B~~ J U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW74

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.7 (g/mL) G Lab File ID: F4149

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 24. Date Analyzed: 3/ 8/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW74 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.9 (g/mL) G Lab File ID: F4156

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 24. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene chloride	11 ~~13~~.	~~B~~ U
67-64-1	Acetone	13.	U
75-15-0	Carbon disulfide	7.	U
75-35-4	1,1-Dichloroethene	7.	U
75-34-3	1,1-Dichloroethane	7.	U
540-59-0	1,2-Dichloroethene (total)	7.	U
67-66-3	Chloroform	7.	U
107-06-2	1,2-Dichloroethane	7.	U
78-93-3	2-Butanone	13.	U
71-55-6	1,1,1-Trichloroethane	7.	U
56-23-5	Carbon tetrachloride	7.	U
108-05-4	Vinyl acetate	13.	U
75-27-4	Bromodichloromethane	7.	U
78-87-5	1,2-Dichloropropane	7.	U
10061-01-5	cis-1,3-Dichloropropene	7.	U
79-01-6	Trichloroethene	7.	U
124-48-1	Dibromochloromethane	7.	U
79-00-5	1,1,2-Trichloroethane	7.	U
71-43-2	Benzene	7.	U
10061-02-6	trans-1,3-Dichloropropene	7.	U
75-25-2	Bromoform	7.	U
108-10-1	4-Methyl-2-pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	7.	U
79-34-5	1,1,2,2-Tetrachloroethane	7.	U
108-88-3	Toluene	7.	U
108-90-7	Chlorobenzene	7.	U
100-41-4	Ethylbenzene	7.	U
100-42-5	Styrene	7.	U
1330-20-7	Xylene (total)	7.	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW74 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.9 (g/mL) G Lab File ID: F4156

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 24. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	5131-66-8	2-Propanol, 1-butoxy- (8CI9C	19.42	20.	J
2.	- -	UNKNOWN	22.82	7.	J
3.					
4.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW75

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.2 (g/mL) G Lab File ID: F4187

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 19. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene chloride	9.	
67-64-1	Acetone	14.	~~B~~ U
75-15-0	Carbon disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon tetrachloride	6.	U
108-05-4	Vinyl acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

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EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EMW75

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.2 (g/mL) G Lab File ID: F4187

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 19. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW76

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.8 (g/mL) G Lab File ID: F4158

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 17. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene chloride	32.	~~B~~ U
67-64-1	Acetone	12.	U
75-15-0	Carbon disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon tetrachloride	6.	U
108-05-4	Vinyl acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	12.	
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	7.	

ZR 4-11-91

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW76

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.8 (g/mL) G Lab File ID: F4158

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 17. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	22.82	30.	J
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW76 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 6.6 (g/mL) G Lab File ID: F4188

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 17. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene chloride	25.	
67-64-1	Acetone	14.	~~B~~ U
75-15-0	Carbon disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
108-05-4	Vinyl acetate	9.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	9.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	7.	
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	12.	

ZR 4-17

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW76 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 6.6 (g/mL) G Lab File ID: F4188

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 17. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	7.82	3.	J
2.	108-87-2	Cyclohexane, methyl- (8CI9CI	11.61	5.	J
3.	- -	UNKNOWN	15.67	8.	J
4.	- -	UNKNOWN	18.73	9.	J
5.	5131-66-8	2-Propanol, 1-butoxy- (8CI9C	19.52	10.	J
6.	526-73-8	Benzene, 1,2,3-trimethyl- (8	21.54	8.	J
7.	526-73-8	Benzene, 1,2,3-trimethyl- (8	22.59	6.	J
8.	- -	UNKNOWN	22.92	30.	J
9.					
10.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW77

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.6 (g/mL) G Lab File ID: F4159

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene chloride	8.	~~B~~ U ZR 4-17
67-64-1	Acetone	12.	U
75-15-0	Carbon disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon tetrachloride	6.	U
108-05-4	Vinyl acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW77

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.6 (g/mL) G Lab File ID: F4159

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW78

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F4189

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 20. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene chloride	11.	
67-64-1	Acetone	12 ~~11~~.	~~BJ~~ U ZR 4-17
75-15-0	Carbon disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon tetrachloride	6.	U
108-05-4	Vinyl acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylene (total)	6.	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW78

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F4189

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 20. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	22.93	10.	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW79

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F4190

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 35. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15.	U
74-83-9	Bromomethane	15.	U
75-01-4	Vinyl chloride	15.	U
75-00-3	Chloroethane	15.	U
75-09-2	Methylene chloride	12.	
67-64-1	Acetone	15.	U
75-15-0	Carbon disulfide	7.	U
75-35-4	1,1-Dichloroethene	7.	U
75-34-3	1,1-Dichloroethane	7.	U
540-59-0	1,2-Dichloroethene (total)	7.	U
67-66-3	Chloroform	7.	U
107-06-2	1,2-Dichloroethane	7.	U
78-93-3	2-Butanone	15.	U
71-55-6	1,1,1-Trichloroethane	7.	U
56-23-5	Carbon tetrachloride	7.	U
108-05-4	Vinyl acetate	15.	U
75-27-4	Bromodichloromethane	7.	U
78-87-5	1,2-Dichloropropane	7.	U
10061-01-5	cis-1,3-Dichloropropene	7.	U
79-01-6	Trichloroethene	7.	U
124-48-1	Dibromochloromethane	7.	U
79-00-5	1,1,2-Trichloroethane	7.	U
71-43-2	Benzene	7.	U
10061-02-6	trans-1,3-Dichloropropene	7.	U
75-25-2	Bromoform	7.	U
108-10-1	4-Methyl-2-pentanone	15.	U
591-78-6	2-Hexanone	15.	U
127-18-4	Tetrachloroethene	7.	U
79-34-5	1,1,2,2-Tetrachloroethane	7.	U
108-88-3	Toluene	5.	J
108-90-7	Chlorobenzene	7.	U
100-41-4	Ethylbenzene	7.	U
100-42-5	Styrene	7.	U
1330-20-7	Xylene (total)	7.	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW79

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.1 (g/mL) G Lab File ID: F4190

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 35. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	3.38	7.	J
2. - -	UNKNOWN	22.95	20.	J
3.				
4.				
5.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| EMW79 RE |

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.9 (g/mL) G Lab File ID: F4191

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 35. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15.	U
74-83-9	Bromomethane	15.	U
75-01-4	Vinyl chloride	15.	U
75-00-3	Chloroethane	15.	U
75-09-2	Methylene chloride	12.	
67-64-1	Acetone	15.	U
75-15-0	Carbon disulfide	8.	U
75-35-4	1,1-Dichloroethene	8.	U
75-34-3	1,1-Dichloroethane	8.	U
540-59-0	1,2-Dichloroethene (total)	8.	U
67-66-3	Chloroform	8.	U
107-06-2	1,2-Dichloroethane	8.	U
78-93-3	2-Butanone	15.	U
71-55-6	1,1,1-Trichloroethane	8.	U
56-23-5	Carbon tetrachloride	8.	U
108-05-4	Vinyl acetate	15.	U
75-27-4	Bromodichloromethane	8.	U
78-87-5	1,2-Dichloropropane	8.	U
10061-01-5	cis-1,3-Dichloropropene	8.	U
79-01-6	Trichloroethene	8.	U
124-48-1	Dibromochloromethane	8.	U
79-00-5	1,1,2-Trichloroethane	8.	U
71-43-2	Benzene	8.	U
10061-02-6	trans-1,3-Dichloropropene	8.	U
75-25-2	Bromoform	8.	U
108-10-1	4-Methyl-2-pentanone	15.	U
591-78-6	2-Hexanone	15.	U
127-18-4	Tetrachloroethene	8.	U
79-34-5	1,1,2,2-Tetrachloroethane	8.	U
108-88-3	Toluene	4.	J
108-90-7	Chlorobenzene	8.	U
100-41-4	Ethylbenzene	26.	
100-42-5	Styrene	8.	U
1330-20-7	Xylene (total)	8.	U

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW79 RE

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.9 (g/mL) G Lab File ID: F4191

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 35. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	22.91	10.	J
2.				
3.				
4.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW80

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.6 (g/mL) G Lab File ID: F4192

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 26. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15.	U
74-83-9	Bromomethane	15.	U
75-01-4	Vinyl chloride	15.	U
75-00-3	Chloroethane	15.	U
75-09-2	Methylene chloride	9.	
67-64-1	Acetone	15.	~~B~~
75-15-0	Carbon disulfide	14.	
75-35-4	1,1-Dichloroethene	7.	U
75-34-3	1,1-Dichloroethane	7.	U
540-59-0	1,2-Dichloroethene (total)	7.	U
67-66-3	Chloroform	7.	U
107-06-2	1,2-Dichloroethane	7.	U
78-93-3	2-Butanone	15.	U
71-55-6	1,1,1-Trichloroethane	7.	U
56-23-5	Carbon tetrachloride	7.	U
108-05-4	Vinyl acetate	15.	U
75-27-4	Bromodichloromethane	7.	U
78-87-5	1,2-Dichloropropane	7.	U
10061-01-5	cis-1,3-Dichloropropene	7.	U
79-01-6	Trichloroethene	7.	U
124-48-1	Dibromochloromethane	7.	U
79-00-5	1,1,2-Trichloroethane	7.	U
71-43-2	Benzene	7.	U
10061-02-6	trans-1,3-Dichloropropene	7.	U
75-25-2	Bromoform	7.	U
108-10-1	4-Methyl-2-pentanone	15.	U
591-78-6	2-Hexanone	15.	U
127-18-4	Tetrachloroethene	7.	U
79-34-5	1,1,2,2-Tetrachloroethane	7.	U
108-88-3	Toluene	7.	U
108-90-7	Chlorobenzene	7.	U
100-41-4	Ethylbenzene	7.	U
100-42-5	Styrene	7.	U
1330-20-7	Xylene (total)	7.	U

ZR 4-17

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW80

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.6 (g/mL) G Lab File ID: F4192

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 26. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. - -	UNKNOWN	22.90	20.	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS1

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.6 (g/mL) G Lab File ID: F4141

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/ 8/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	9.	U
74-83-9	Bromomethane	9.	U
75-01-4	Vinyl chloride	9.	U
75-00-3	Chloroethane	9.	U
75-09-2	Methylene chloride	16.	
67-64-1	Acetone	24.	
75-15-0	Carbon disulfide	4.	U
75-35-4	1,1-Dichloroethene	4.	U
75-34-3	1,1-Dichloroethane	4.	U
540-59-0	1,2-Dichloroethene (total)	4.	U
67-66-3	Chloroform	4.	U
107-06-2	1,2-Dichloroethane	4.	U
78-93-3	2-Butanone	9.	U
71-55-6	1,1,1-Trichloroethane	4.	U
56-23-5	Carbon tetrachloride	4.	U
108-05-4	Vinyl acetate	9.	U
75-27-4	Bromodichloromethane	4.	U
78-87-5	1,2-Dichloropropane	4.	U
10061-01-5	cis-1,3-Dichloropropene	4.	U
79-01-6	Trichloroethene	4.	U
124-48-1	Dibromochloromethane	4.	U
79-00-5	1,1,2-Trichloroethane	4.	U
71-43-2	Benzene	4.	U
10061-02-6	trans-1,3-Dichloropropene	4.	U
75-25-2	Bromoform	4.	U
108-10-1	4-Methyl-2-pentanone	9.	U
591-78-6	2-Hexanone	2.	J
127-18-4	Tetrachloroethene	4.	U
79-34-5	1,1,2,2-Tetrachloroethane	4.	U
108-88-3	Toluene	1.	J
108-90-7	Chlorobenzene	4.	U
100-41-4	Ethylbenzene	4.	U
100-42-5	Styrene	4.	U
1330-20-7	Xylene (total)	1.	J

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS1

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.6 (g/mL) G Lab File ID: F4141

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/ 8/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS2

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.3 (g/mL) G Lab File ID: F4152

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	9.	
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
108-05-4	Vinyl acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS2

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.3 (g/mL) G Lab File ID: F4152

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/11/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76-13-1	1,1,2-TRICHLOROTRIFLOUROETHA	4.30	7.	J
2.	- -	UNKNOWN	22.81	7.	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS3

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.6 (g/mL) G Lab File ID: F4186

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene chloride	5.	U
67-64-1	Acetone	13.	
75-15-0	Carbon disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
108-05-4	Vinyl acetate	11.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	11.	U
591-78-6	2-Hexanone	11.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS3

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 4.6 (g/mL) G Lab File ID: F4186

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/13/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKS4

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F4205

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/14/91

Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	6.	
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
108-05-4	Vinyl acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKS4

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G Lab File ID: F4205

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/14/91

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76-13-1	1,1,2-TRICHLOROTRIFLOUROETHA	4.35	8.	J
2.					
3.					
4.					
5.					
6.					
7.					
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9.					
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29.					
30.					

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW80

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2032

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 26. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/23/91

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	22.	U
319-85-7	BETA-BHC	22.	U
319-86-8	DELTA-BHC	22.	U
58-89-9	GAMMA-BHC	22.	U
76-44-8	HEPTACHLOR	22.	U
309-00-2	ALDRIN	22.	U
1024-57-3	HEPTACHLOR EPOXIDE	22.	U
959-98-8	ENDOSULFAN I	22.	U
60-57-1	DIELDRIN	43.	U
72-55-9	4,4'-DDE	8.4	J
72-20-8	ENDRIN	43.	U
33213-65-9	ENDOSULFAN II	43.	U
72-54-8	4,4'-DDD	43.	U
1031-07-8	ENDOSULFAN SULFATE	43.	U
50-29-3	4,4'-DDT	25.	J
72-43-5	METHOXYCHLOR	220.	U
53494-70-5	ENDRIN KETONE	43.	U
5103-71-9	ALPHA-CHLORDANE	220.	U
5103-74-2	GAMMA-CHLORDANE	220.	U
8001-35-2	TOXAPHENE	430.	U
12674-11-2	AROCLOR-1016	220.	U
11104-28-2	AROCLOR-1221	220.	U
11141-16-5	AROCLOR-1232	220.	U
53469-21-9	AROCLOR-1242	220.	U
12672-29-6	AROCLOR-1248	220.	U
11097-69-1	AROCLOR-1254	430.	U
11096-82-5	AROCLOR-1260	430.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW72

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2020

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/22/91

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	21.	U
319-85-7	BETA-BHC	21.	U
319-86-8	DELTA-BHC	21.	U
58-89-9	GAMMA-BHC	21.	U
76-44-8	HEPTACHLOR	21.	U
309-00-2	ALDRIN	21.	U
1024-57-3	HEPTACHLOR EPOXIDE	21.	U
959-98-8	ENDOSULFAN I	21.	U
60-57-1	DIELDRIN	41.	U
72-55-9	4,4'-DDE	41.	U
72-20-8	ENDRIN	41.	U
33213-65-9	ENDOSULFAN II	41.	U
72-54-8	4,4'-DDD	41.	U
1031-07-8	ENDOSULFAN SULFATE	41.	U
50-29-3	4,4'-DDT	41.	U
72-43-5	METHOXYCHLOR	210.	U
53494-70-5	ENDRIN KETONE	41.	U
5103-71-9	ALPHA-CHLORDANE	210.	U
5103-74-2	GAMMA-CHLORDANE	210.	U
8001-35-2	TOXAPHENE	410.	U
12674-11-2	AROCLOR-1016	210.	U
11104-28-2	AROCLOR-1221	210.	U
11141-16-5	AROCLOR-1232	210.	U
53469-21-9	AROCLOR-1242	210.	U
12672-29-6	AROCLOR-1248	210.	U
11097-69-1	AROCLOR-1254	410.	U
11096-82-5	AROCLOR-1260	410.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW73

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2021

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 18. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/22/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	19.	U
319-85-7	BETA-BHC	19.	U
319-86-8	DELTA-BHC	19.	U
58-89-9	GAMMA-BHC	19.	U
76-44-8	HEPTACHLOR	19.	U
309-00-2	ALDRIN	19.	U
1024-57-3	HEPTACHLOR EPOXIDE	19.	U
959-98-8	ENDOSULFAN I	19.	U
60-57-1	DIELDRIN	39.	U
72-55-9	4,4'-DDE	39.	U
72-20-8	ENDRIN	39.	U
33213-65-9	ENDOSULFAN II	39.	U
72-54-8	4,4'-DDD	39.	U
1031-07-8	ENDOSULFAN SULFATE	39.	U
50-29-3	4,4'-DDT	39.	U
72-43-5	METHOXYCHLOR	190.	U
53494-70-5	ENDRIN KETONE	39.	U
5103-71-9	ALPHA-CHLORDANE	190.	U
5103-74-2	GAMMA-CHLORDANE	190.	U
8001-35-2	TOXAPHENE	390.	U
12674-11-2	AROCLOR-1016	190.	U
11104-28-2	AROCLOR-1221	190.	U
11141-16-5	AROCLOR-1232	190.	U
53469-21-9	AROCLOR-1242	190.	U
12672-29-6	AROCLOR-1248	190.	U
11097-69-1	AROCLOR-1254	390.	U
11096-82-5	AROCLOR-1260	390.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW74

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2024

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 24. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/23/91

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	21.	U
319-85-7	BETA-BHC	21.	U
319-86-8	DELTA-BHC	21.	U
58-89-9	GAMMA-BHC	21.	U
76-44-8	HEPTACHLOR	21.	U
309-00-2	ALDRIN	21.	U
1024-57-3	HEPTACHLOR EPOXIDE	21.	U
959-98-8	ENDOSULFAN I	21.	U
60-57-1	DIELDRIN	42.	U
72-55-9	4,4'-DDE	130.	
72-20-8	ENDRIN	42.	U
33213-65-9	ENDOSULFAN II	42.	U
72-54-8	4,4'-DDD	59.	
1031-07-8	ENDOSULFAN SULFATE	42.	U
50-29-3	4,4'-DDT	42.	U
72-43-5	METHOXYCHLOR	210.	U
53494-70-5	ENDRIN KETONE	42.	U
5103-71-9	ALPHA-CHLORDANE	210.	U
5103-74-2	GAMMA-CHLORDANE	210.	U
8001-35-2	TOXAPHENE	420.	U
12674-11-2	AROCLOR-1016	210.	U
11104-28-2	AROCLOR-1221	210.	U
11141-16-5	AROCLOR-1232	210.	U
53469-21-9	AROCLOR-1242	210.	U
12672-29-6	AROCLOR-1248	210.	U
11097-69-1	AROCLOR-1254	420.	U
11096-82-5	AROCLOR-1260	420.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW75

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2025

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 19. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/23/91

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	20.	U
319-85-7	BETA-BHC	20.	U
319-86-8	DELTA-BHC	20.	U
58-89-9	GAMMA-BHC	20.	U
76-44-8	HEPTACHLOR	20.	U
309-00-2	ALDRIN	20.	U
1024-57-3	HEPTACHLOR EPOXIDE	20.	U
959-98-8	ENDOSULFAN I	20.	U
60-57-1	DIELDRIN	40.	U
72-55-9	4,4'-DDE	40.	U
72-20-8	ENDRIN	40.	U
33213-65-9	ENDOSULFAN II	40.	U
72-54-8	4,4'-DDD	40.	U
1031-07-8	ENDOSULFAN SULFATE	40.	U
50-29-3	4,4'-DDT	40.	U
72-43-5	METHOXYCHLOR	200.	U
53494-70-5	ENDRIN KETONE	40.	U
5103-71-9	ALPHA-CHLORDANE	200.	U
5103-74-2	GAMMA-CHLORDANE	200.	U
8001-35-2	TOXAPHENE	400.	U
12674-11-2	AROCLOR-1016	200.	U
11104-28-2	AROCLOR-1221	200.	U
11141-16-5	AROCLOR-1232	200.	U
53469-21-9	AROCLOR-1242	200.	U
12672-29-6	AROCLOR-1248	200.	U
11097-69-1	AROCLOR-1254	400.	U
11096-82-5	AROCLOR-1260	400.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW76

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2026

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 17. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/23/91

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	19.	U
319-85-7	BETA-BHC	19.	U
319-86-8	DELTA-BHC	19.	U
58-89-9	GAMMA-BHC	19.	U
76-44-8	HEPTACHLOR	19.	U
309-00-2	ALDRIN	19.	U
1024-57-3	HEPTACHLOR EPOXIDE	19.	U
959-98-8	ENDOSULFAN I	19.	U
60-57-1	DIELDRIN	38.	U
72-55-9	4,4'-DDE	38.	U
72-20-8	ENDRIN	38.	U
33213-65-9	ENDOSULFAN II	38.	U
72-54-8	4,4'-DDD	38.	U
1031-07-8	ENDOSULFAN SULFATE	38.	U
50-29-3	4,4'-DDT	38.	U
72-43-5	METHOXYCHLOR	190.	U
53494-70-5	ENDRIN KETONE	38.	U
5103-71-9	ALPHA-CHLORDANE	190.	U
5103-74-2	GAMMA-CHLORDANE	190.	U
8001-35-2	TOXAPHENE	380.	U
12674-11-2	AROCLOR-1016	190.	U
11104-28-2	AROCLOR-1221	190.	U
11141-16-5	AROCLOR-1232	190.	U
53469-21-9	AROCLOR-1242	190.	U
12672-29-6	AROCLOR-1248	190.	U
11097-69-1	AROCLOR-1254	380.	U
11096-82-5	AROCLOR-1260	380.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW77

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2027

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/23/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	21.	U
319-85-7	BETA-BHC	21.	U
319-86-8	DELTA-BHC	21.	U
58-89-9	GAMMA-BHC	21.	U
76-44-8	HEPTACHLOR	21.	U
309-00-2	ALDRIN	21.	U
1024-57-3	HEPTACHLOR EPOXIDE	21.	U
959-98-8	ENDOSULFAN I	21.	U
60-57-1	DIELDRIN	42.	U
72-55-9	4,4'-DDE	42.	U
72-20-8	ENDRIN	42.	U
33213-65-9	ENDOSULFAN II	42.	U
72-54-8	4,4'-DDD	42.	U
1031-07-8	ENDOSULFAN SULFATE	42.	U
50-29-3	4,4'-DDT	42.	U
72-43-5	METHOXYCHLOR	210.	U
53494-70-5	ENDRIN KETONE	42.	U
5103-71-9	ALPHA-CHLORDANE	210.	U
5103-74-2	GAMMA-CHLORDANE	210.	U
8001-35-2	TOXAPHENE	420.	U
12674-11-2	AROCLOR-1016	210.	U
11104-28-2	AROCLOR-1221	210.	U
11141-16-5	AROCLOR-1232	210.	U
53469-21-9	AROCLOR-1242	210.	U
12672-29-6	AROCLOR-1248	210.	U
11097-69-1	AROCLOR-1254	420.	U
11096-82-5	AROCLOR-1260	420.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW78

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2028

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/23/91

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	20.	U
319-85-7	BETA-BHC	20.	U
319-86-8	DELTA-BHC	20.	U
58-89-9	GAMMA-BHC	20.	U
76-44-8	HEPTACHLOR	20.	U
309-00-2	ALDRIN	20.	U
1024-57-3	HEPTACHLOR EPOXIDE	20.	U
959-98-8	ENDOSULFAN I	20.	U
60-57-1	DIELDRIN	40.	U
72-55-9	4,4'-DDE	40.	U
72-20-8	ENDRIN	40.	U
33213-65-9	ENDOSULFAN II	40.	U
72-54-8	4,4'-DDD	40.	U
1031-07-8	ENDOSULFAN SULFATE	40.	U
50-29-3	4,4'-DDT	40.	U
72-43-5	METHOXYCHLOR	200.	U
53494-70-5	ENDRIN KETONE	40.	U
5103-71-9	ALPHA-CHLORDANE	200.	U
5103-74-2	GAMMA-CHLORDANE	200.	U
8001-35-2	TOXAPHENE	400.	U
12674-11-2	AROCLOR-1016	200.	U
11104-28-2	AROCLOR-1221	200.	U
11141-16-5	AROCLOR-1232	200.	U
53469-21-9	AROCLOR-1242	200.	U
12672-29-6	AROCLOR-1248	200.	U
11097-69-1	AROCLOR-1254	400.	U
11096-82-5	AROCLOR-1260	400.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW79

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 30. (g/mL) G Lab File ID: M22C2031

Level: (low/med) LOW Date Received: 3/ 1/91

% Moisture: not dec. 35. dec. 0. Date Extracted: 3/ 8/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/23/91

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	24.	U
319-85-7	BETA-BHC	24.	U
319-86-8	DELTA-BHC	24.	U
58-89-9	GAMMA-BHC	24.	U
76-44-8	HEPTACHLOR	24.	U
309-00-2	ALDRIN	24.	U
1024-57-3	HEPTACHLOR EPOXIDE	24.	U
959-98-8	ENDOSULFAN I	24.	U
60-57-1	DIELDRIN	49.	U
72-55-9	4,4'-DDE	49.	U
72-20-8	ENDRIN	49.	U
33213-65-9	ENDOSULFAN II	49.	U
72-54-8	4,4'-DDD	49.	U
1031-07-8	ENDOSULFAN SULFATE	49.	U
50-29-3	4,4'-DDT	49.	U
72-43-5	METHOXYCHLOR	240.	U
53494-70-5	ENDRIN KETONE	49.	U
5103-71-9	ALPHA-CHLORDANE	240.	U
5103-74-2	GAMMA-CHLORDANE	240.	U
8001-35-2	TOXAPHENE	490.	U
12674-11-2	AROCLOR-1016	240.	U
11104-28-2	AROCLOR-1221	240.	U
11141-16-5	AROCLOR-1232	240.	U
53469-21-9	AROCLOR-1242	240.	U
12672-29-6	AROCLOR-1248	240.	U
11097-69-1	AROCLOR-1254	490.	U
11096-82-5	AROCLOR-1260	490.	U

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

CASE NARRATIVE

Labcode: NET
NATONAL ENVIRONMENTAL TESTING, INC.
NET-MIDWEST, INC.
Bartlett Division

Case No. : 15964
SDG No. : EMW72
Contract : 68D90031

850 West Bartlett Rd.
Bartlett, IL 60103
708-289-3100
Toni Gartner - Manager
Christian H. Froemke Jr. - Project Coordinator

SAMPLES: EMW72, EMW73, EMW74, EMW75, EMW76, EMW77, EMW78, EMW79, EMW80

All samples received on 3/1/91.

The following are exceptions to normal protocol:

Volatile Organics Analysis

Secondary ion 174 was used for quantitation of Bromofluorobenzene due to coelution with 1,1,2,2-tetrachloroethane for all analysis performed on instrument 7002F.

Samples EMW75, EMW78, EMW79, EMW80, EMW80MS, and EMW80MSD were analyzed past holding times.

Samples EMW73, EMW74, EMW76, EMW79 had internal standard areas and surrogate recoveries out of compliance on both the initial and reanalysis. All reruns are considred billable.

Semi-Volatile Organics Analysis

Sample EMW73 had internal standard areas and surrogate recoveries out of compliance on both the initial and reanalysis. All reruns are considred billable.

Sample ENA68 and SBLKS1 were reextraction due to poor surrogate recoveries. It was reextracted past holding time.

Pesticide Analysis

Sample ENA68 and SBLKS1 had poor surrogate recoveries. It was not reextracted.

continued...

In Reference to Case No(s): 15964

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 4-17-91

Laboratory Name: NET

Lab Contact: Christian H. Froemke, Toni Gartner

Region: 5

Regional Contact: Ziyad A. Rajabi

Call Initiated By: ___ Laboratory ✓ Region

In reference to data for the following sample number(s):

Continuing Calibration Form 7 second page SVOA Dated 3-22-91 (15:48) missing

Summary of Questions/Issues Discussed:

9:50 Am Left a message For Toni Gartner
10:45 Am lab called

Summary of Resolution:

Form will be Faxed.
Form Recieved zR

Signature Ziyad Rajabi Date 4-17-91

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer readable data submitted on floppy diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Christian H. Froemke Jr. 4/3/91

Christian H. Froemke Jr. Date
Project Coordinator

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLKS1	101	105	101		0
2	EMW73	122 *	83	91		1
3	EMW74	104	91	95		0
4	VBLKS2	102	102	94		0
5	EMW72	112	90	94		0
6	EMW73 RE	110	86	95		0
7	EMW74 RE	109	91	97		0
8	EMW76	113	87	93		0
9	EMW77	106	85	96		0
10	VBLKS3	97	103	93		0
11	EMW75	110	91	88		0
12	EMW76 RE	110	85	83		0
13	EMW78	113	85	90		0
14	EMW79	108	80	87		0
15	EMW79 RE	98	85	89		0
16	EMW80	105	91	91		0
17	EMW80MS	100	91	91		0
18	VBLKS4	100	102	95		0
19	EMW80MSD	110	92	93		0
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

5

FORM II VOA-2

1/87 Rev.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
1	SBLKS1	0 *	0 *	0 *	0 *	0 *	0 *		6
2	EMW72	84	87	93	87	85	86		0
3	EMW73	98	100	110	100	100	106		0
4	EMW74	92	94	101	92	93	109		0
5	EMW75	90	93	92	95	91	92		0
6	EMW77	93	95	103	94	94	101		0
7	EMW78	93	93	100	94	93	96		0
8	EMW79	91	91	93	91	92	98		0
9	EMW80	97	102	102	99	100	108		0
10	EMW80MS	91	88	92	86	93	97		0
11	EMW80MSD	90	89	94	88	94	94		0
12	EMW73 RE	90	100	98	98	96	101		0
13	SBLKS2	78	83	84	76	72	78		0
14	EMW76	81	87	90	82	79	82		0
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (PHL)	= Phenol-d6	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

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FORM II SV-2 1/87 Rev.

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKS1	0 *	
2	EMW80MS	98	
3	EMW80MSD	101	
4	EMW72	93	
5	EMW73	92	
6	EMW74	109	
7	EMW75	101	
8	EMW76	0 *	
9	EMW77	98	
10	EMW78	112	
11	EMW79	107	
12	EMW80	100	
13			
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30			

S1 (DBC) = DIBUTYLCHLORENDATE ADVISORY QC LIMITS (20-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix Spike - EPA Sample No.: EMW80 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	66.	0.	69.	105	59-172
Trichloroethene	66.	0.	68.	102	62-137
Benzene	66.	0.	71.	107	66-142
Toluene	66.	0.	74.	111	59-139
Chlorobenzene	66.	0.	72.	109	60-133

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	59.	71.	119	13	22	59-172
Trichloroethene	59.	56.	94	8	24	62-137
Benzene	59.	59.	99	8	21	66-142
Toluene	59.	63.	106	5	21	59-139
Chlorobenzene	59.	56.	94	15	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

6

FORM III VOA-2 1/87 Rev.

~~7~~ 4/9/91 RRP

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix Spike - EPA Sample No.: EMW80 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Phenol	8991.	0.	15422.	172 *	26- 90
2-Chlorophenol	8991.	0.	14974.	167 *	25-102
1,4-Dichlorobenzene	4496.	0.	6792.	151 *	28-104
N-Nitroso-di-n-prop.(1)	4496.	0.	8317.	185 *	41-126
1,2,4-Trichlorobenzene	4496.	0.	6958.	155 *	38-107
4-Chloro-3-methylphenol	8991.	0.	13970.	155 *	26-103
Acenaphthene	4496.	0.	6550.	146 *	31-137
4-Nitrophenol	8991.	0.	16711.	186 *	11-114
2,4-Dinitrotoluene	4496.	0.	7145.	159 *	28- 89
Pentachlorophenol	8991.	0.	15893.	177 *	17-109
Pyrene	4496.	0.	7220.	161 *	35-142

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	9021.	14410.	160 *	7	35	26- 90
2-Chlorophenol	9021.	14480.	161 *	4	50	25-102
1,4-Dichlorobenzene	4511.	7013.	155 *	3	27	28-104
N-Nitroso-di-n-prop.(1)	4511.	8404.	186 *	1	38	41-126
1,2,4-Trichlorobenzene	4511.	6989.	155 *	0	23	38-107
4-Chloro-3-methylphenol	9021.	13238.	147 *	6	33	26-103
Acenaphthene	4511.	6724.	149 *	2	19	31-137
4-Nitrophenol	9021.	15840.	176 *	6	50	11-114
2,4-Dinitrotoluene	4511.	7254.	161 *	1	47	28- 89
Pentachlorophenol	9021.	16798.	186 *	5	47	17-109
Pyrene	4511.	7466.	166 *	3	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 22 out of 22 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Matrix Spike - EPA Sample No.: EMW80 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
GAMMA-BHC	71.93	.00	84.75	118	46-127
HEPTACHLOR	71.93	.00	50.31	70	35-130
ALDRIN	71.93	.00	53.08	74	34-132
DIELDRIN	179.82	.00	156.09	87	31-134
ENDRIN	179.82	.00	178.61	99	42-139
4,4'-DDT	179.82	24.64	217.12	107	23-134

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
GAMMA-BHC	71.93	80.15	111	6	50	46-127
HEPTACHLOR	71.93	49.42	69	2	31	35-130
ALDRIN	71.93	58.40	81	10	43	34-132
DIELDRIN	179.82	151.07	84	3	38	31-134
ENDRIN	179.82	189.05	105	6	45	42-139
4,4'-DDT	179.82	211.88	104	3	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Lab File ID: F4141 Lab Sample ID:

Date Analyzed: 3/ 8/91 Time Analyzed: 11:10

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 7002F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	EMW73		F4148	17:55
2	EMW74		F4149	18:51
3				
4				
5				
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7				
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COMMENTS:

FORM IV VOA

1/87 Rev. 4/3/91

7 8

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Lab File ID: F4152 Lab Sample ID:

Date Analyzed: 3/11/91 Time Analyzed: 11:31

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 7002F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	EMW72		F4154	14:13
2	EMW73 RE		F4155	15:02
3	EMW74 RE		F4156	15:57
4	EMW76		F4158	17:48
5	EMW77		F4159	18:43
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Lab File ID: F4186 Lab Sample ID:

Date Analyzed: 3/13/91 Time Analyzed: 13:36

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 7002F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	EMW75		F4187	15:00
2	EMW76 RE		F4188	15:48
3	EMW78		F4189	16:44
4	EMW79		F4190	17:39
5	EMW79 RE		F4191	18:35
6	EMW80		F4192	19:30
7	EMW80MS		F4194	21:20
8				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Lab File ID: F4205 Lab Sample ID:

Date Analyzed: 3/14/91 Time Analyzed: 12:14

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 7002F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	EMW80MSD		F4206	13:19
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COMMENTS:

10

FORM IV VOA 1/87 Rev. 3/4/91

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Lab File ID: D9002 Lab Sample ID:

Date Extracted: 3/ 8/91 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 3/20/91 Time Analyzed: 13:57

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 7002D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	EMW72		D9003	3/20/91
2	EMW73		D9004	3/20/91
3	EMW74		D9005	3/20/91
4	EMW75		D9006	3/20/91
5	EMW77		D9008	3/20/91
6	EMW78		D9009	3/20/91
7	EMW79		D9010	3/20/91
8	EMW80		D9011	3/20/91
9	EMW80MS		D9012	3/20/91
10	EMW80MSD		D9013	3/20/91
11	EMW73 RE		D9025	3/22/91
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Lab File ID: D9086 Lab Sample ID:

Date Extracted: 3/21/91 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 1/91 Time Analyzed: 17:59

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 7002D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	EMW76		D9087	4/ 1/91
2				
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COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: NET Contract: 68D90031

Lab Code: NET Case No.: 15964 SAS No.: SDG No.: EMW72

Lab Sample ID: Lab File ID: M22C2017

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 3/ 8/91 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed (1): 3/22/91 Date Analyzed (2): 3/22/91

Time Analyzed (1): 20:38 Time Analyzed (2): 20:38

Instrument ID (1): SYC2 Instrument ID (2): SYC1

GC Column ID (1): DB-5 GC Column ID (2): DB-608

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	EMW80MS		3/22/91	
2	EMW80MSD		3/22/91	
3	EMW72		3/22/91	3/22/91
4	EMW73		3/22/91	3/22/91
5	EMW74		3/23/91	3/23/91
6	EMW75		3/23/91	3/23/91
7	EMW76		3/23/91	3/23/91
8	EMW77		3/23/91	3/23/91
9	EMW78		3/23/91	3/23/91
10	EMW79		3/23/91	3/23/91
11	EMW80		3/23/91	3/23/91
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Comments:

T.L: NAHID BROWN
CRL: Y (N)

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS

TOP: F05-9007-012
PAN: F0H0646SA
MAR 06 1991

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 15964/NA SITE NAME FORD MOTOR CO. - OHIO TRUCK PLANT LABORATORY NET/DATACHEM DATE SHIPPED 2/28/

SUPERFUND DU NUMBER IFA-102 EPA RPM or OSC (S.M.S.) (CES) CERCLIS NUMBER OHD 020626669 PAGE 1 OF

ACTIVITY NUMBER ZZ

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER	INORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	WATER OR LIQUIDS: ACID-BASE NEUTRAL OPOS ORGANIC SCAN UG/L TOX17524	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG/L TOX17544	WATER POLYCHLORINATED BIPHENYLS UG/L PES17144	WATER CHLORINATED PESTICIDES UG/L PES17134	TOTAL METALS IN WATER UG/L MET111	WATER CYANIDE UG/L MIN74018	NITRATE/NITRITE MG/L MIN7294	AMMONIA MG/L MIN7294	RESIDUE, FILTERABLE TDS MG/L MIN7262	RESIDUE NON-FILT TSS MG/L MIN7272	SEDIMENTS or SOILS: ACID-BASE NEUTRAL OPOS ORGANIC SCAN MG/KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG/KG TOX214622	SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES214622	SEDIMENT CHLORINATED PESTICIDES MG/KG 211522	TOTAL METALS MG/KG MET413	CYANIDE MG/KG MIN4120	% TOBOCTY METALS MG/KG	AMMONIA MG/KG MIN4725
91FB38S12	EMW 72	MEMW 58											X	X	X	X	X	X		
13	73	59																		
14	74	60																		
15	75	61																		
16	76	62																		
17	77	63																		
18	78	64																		
19	79	65																		
20	80	66											✓	✓	✓	✓	✓	✓		

CLP due date: 4-25-91
CRL due date: N/A

MAR 7 1991 a. c. Harvey / ESAT L31

EPA

Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report
(For CLP Use Only)

15964 | N/A

1. Sample Description (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (SAS)
7. Waste (SAS)
8. Other (SAS) (Specify)

2. Region Number: V | Sampling Co.: F-T
Sampler (Name): MATHEW JOSEPH
3. Ship To: BARTLETT, IL 60103 ATTN: DENISE GERMAN

4. Date Shipped: 2/28/91 | Airbill Number: 75 66916
Carrier: F.
Triple volume required for matrix spike/duplicate aqueous sample.
Ship medium and high concentration samples in paint cans.
See reverse for additional instructions.

5. Date Received: 3-1-91 | Received by: Hoard Peters
Laboratory Contract Number: 68D90031 | Unit Price: $795.00
6. Transfer to | Date Received
Received by
Contract Number | Price

CLP Sample Number (From labels)	(A) Sample Description (From box 1)	(B) Concentration L=low M=med H=high	(C) RAS Analysis VOA	BNA	Pest/PCB	(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below) Solid	Water—MIS Liq.	Non Water—MIS Liq.
EMW 72	5	L	✓	✓	✓		S1	2/28/91 1210	MEMW 58				
EMW 73	5	L	✓	✓	✓		S2	2/28/91 1230	MEMW 59				
EMW 74	5	L	✓	✓	✓		S3	2/28/91 1230	MEMW 60				
EMW 75	5	L	✓	✓	✓		S4	2/28/91 1310	MEMW 61				
EMW 76	5	L	✓	✓	✓		S5	2/28/91 1415	MEMW 62				
EMW 77	5	L	✓	✓	✓		S6	2/28/91 1445	MEMW 63				
EMW 78	5	L	✓	✓	✓		S7	2/28/91 1455	MEMW 64				
EMW 79	5	L	✓	✓	✓		S8	2/28/91 1515	MEMW 65				
EMW 80	5	L	✓	✓	✓		S9	2/28/91 1515	MEMW 66				
				SHIPMENT IS COMPLETE									

EPA Form 9110-2 (8-88) Replaces EPA Form 2075-7, which may be used. Blue - SMO Copy Pink - Region Copy White - Lab Copy for Return to SMO Yellow - Lab Copy

ENVIROFORMS/INORGANIC CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

SOW No.: 3/90

Sample No.	Lab Sample ID.
MEMW58	CLP6182
MEMW58D	CLP6182
MEMW58S	CLP6182
MEMW59	CLP6183
MEMW59D	CLP6183
MEMW59S	CLP6183
MEMW60	CLP6184
MEMW61	CLP6185
MEMW62	CLP6186
MEMW63	CLP6187
MEMW64	CLP6188
MEMW65	CLP6189
MEMW66	CLP6190
MEMW66D	CLP6190
MEMW66S	CLP6190

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes, were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Brent E. Stephens

Date: March 29, 1991 Title: Section Manager

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW58

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6182

Level (low/med): LOW Date Received: 03/01/91

% Solids: 79.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24300			P
7440-36-0	Antimony	9.3	U	N	P
7440-38-2	Arsenic	7.8		N*	F
7440-39-3	Barium	174			P
7440-41-7	Beryllium	2.3			P
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium	50800		*	P
7440-47-3	Chromium	32.0			P
7440-48-4	Cobalt	13.2			P
7440-50-8	Copper	41.4			P
7439-89-6	Iron	36900			P
7439-92-1	Lead	11.4		*	F
7439-95-4	Magnesium	10700			P
7439-96-5	Manganese	1700		N*	P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	34.3			P
7440-09-7	Potassium	3880		*	P
7782-49-2	Selenium	1.7		NS	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	385	B		P
7440-28-0	Thallium	1.3	U		F
7440-62-2	Vanadium	56.8		*	P
7440-66-6	Zinc	233			P
	Cyanide	1.3	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

4

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW59

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6183

Level (low/med): LOW Date Received: 03/01/91

% Solids: 82.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19400			P
7440-36-0	Antimony	9.7	B	N	P
7440-38-2	Arsenic	7.9		N*	F
7440-39-3	Barium	125			P
7440-41-7	Beryllium	0.98	B		P
7440-43-9	Cadmium	0.97	U		P
7440-70-2	Calcium	51800		*	P
7440-47-3	Chromium	28.3			P
7440-48-4	Cobalt	12.7			P
7440-50-8	Copper	28.5			P
7439-89-6	Iron	29600			P
7439-92-1	Lead	21.3		S*	F
7439-95-4	Magnesium	17100			P
7439-96-5	Manganese	418		N*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	37.0			P
7440-09-7	Potassium	5730		*	P
7782-49-2	Selenium	0.97	U	NW	F
7440-22-4	Silver	1.2	U	N	P
7440-23-5	Sodium	396	B		P
7440-28-0	Thallium	1.2	U	W	F
7440-62-2	Vanadium	50.6		*	P
7440-66-6	Zinc	74.5			P
	Cyanide	1.2	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW60

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6184

Level (low/med): LOW Date Received: 03/01/91

% Solids: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26800			P
7440-36-0	Antimony	9.7	U	N	P
7440-38-2	Arsenic	7.6		NS*	F
7440-39-3	Barium	132			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	6460		*	P
7440-47-3	Chromium	29.5			P
7440-48-4	Cobalt	7.8	B		P
7440-50-8	Copper	26.4			P
7439-89-6	Iron	22500			P
7439-92-1	Lead	23.6		S*	F
7439-95-4	Magnesium	4200			P
7439-96-5	Manganese	189		N*	P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	29.2			P
7440-09-7	Potassium	3320		*	P
7782-49-2	Selenium	1.0	U	NW	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	198	B		P
7440-28-0	Thallium	1.3	U		F
7440-62-2	Vanadium	49.0		*	P
7440-66-6	Zinc	62.1			P
	Cyanide	1.3	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW61

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6185

Level (low/med): LOW Date Received: 03/01/91

% Solids: 83.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21900			P
7440-36-0	Antimony	8.8	U	N	P
7440-38-2	Arsenic	31.1		N*	F
7440-39-3	Barium	124			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	0.95	U		P
7440-70-2	Calcium	11800		*	P
7440-47-3	Chromium	33.4			P
7440-48-4	Cobalt	12.1			P
7440-50-8	Copper	26.5			P
7439-89-6	Iron	31300			P
7439-92-1	Lead	29.2		*	F
7439-95-4	Magnesium	8660			P
7439-96-5	Manganese	389		N*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	53.5			P
7440-09-7	Potassium	3910		*	P
7782-49-2	Selenium	0.95	U	NW	F
7440-22-4	Silver	1.2	U	N	P
7440-23-5	Sodium	203	B		P
7440-28-0	Thallium	1.2	U		F
7440-62-2	Vanadium	47.9		*	P
7440-66-6	Zinc	122			P
	Cyanide	1.2	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW62

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6186

Level (low/med): LOW Date Received: 03/01/91

% Solids: 85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18300			P
7440-36-0	Antimony	8.6	U	N	P
7440-38-2	Arsenic	10.7		NS*	F
7440-39-3	Barium	76.5			P
7440-41-7	Beryllium	1.5			P
7440-43-9	Cadmium	0.95	B		P
7440-70-2	Calcium	18100		*	P
7440-47-3	Chromium	32.6			P
7440-48-4	Cobalt	11.4	B		P
7440-50-8	Copper	31.1			P
7439-89-6	Iron	29400			P
7439-92-1	Lead	11.0		S*	F
7439-95-4	Magnesium	6190			P
7439-96-5	Manganese	569		N*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	39.7			P
7440-09-7	Potassium	4660		*	P
7782-49-2	Selenium	3.9		NS	F
7440-22-4	Silver	1.2	U	N	P
7440-23-5	Sodium	226	B		P
7440-28-0	Thallium	1.5	B		F
7440-62-2	Vanadium	113		*	P
7440-66-6	Zinc	107			P
	Cyanide	1.2	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW63

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6187

Level (low/med): LOW Date Received: 03/01/91

% Solids: 77.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24200			P
7440-36-0	Antimony	13.6	B	N	P
7440-38-2	Arsenic	11.1		NS*	F
7440-39-3	Barium	167			P
7440-41-7	Beryllium	2.3			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	67600		*	P
7440-47-3	Chromium	34.4			P
7440-48-4	Cobalt	12.4	B		P
7440-50-8	Copper	27.0			P
7439-89-6	Iron	29300			P
7439-92-1	Lead	33.7		*	F
7439-95-4	Magnesium	14600			P
7439-96-5	Manganese	2830		N*	P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	33.0			P
7440-09-7	Potassium	3980		*	P
7782-49-2	Selenium	1.9		NS	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	454	B		P
7440-28-0	Thallium	1.3	U		F
7440-62-2	Vanadium	50.5		*	P
7440-66-6	Zinc	95.6			P
	Cyanide	1.3	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW64

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6188

Level (low/med): LOW Date Received: 03/01/91

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17600			P
7440-36-0	Antimony	8.8	U	N	P
7440-38-2	Arsenic	9.1		N*	F
7440-39-3	Barium	94.9			P
7440-41-7	Beryllium	1.7			P
7440-43-9	Cadmium	0.95	U		P
7440-70-2	Calcium	20700		*	P
7440-47-3	Chromium	25.4			P
7440-48-4	Cobalt	15.2			P
7440-50-8	Copper	23.3			P
7439-89-6	Iron	45400			P
7439-92-1	Lead	15.0		*	F
7439-95-4	Magnesium	7220			P
7439-96-5	Manganese	755		N*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	33.7			P
7440-09-7	Potassium	3490		*	P
7782-49-2	Selenium	0.95	U	N	F
7440-22-4	Silver	1.2	U	N	P
7440-23-5	Sodium	202	B		P
7440-28-0	Thallium	1.2	U		F
7440-62-2	Vanadium	48.0		*	P
7440-66-6	Zinc	98.9			P
	Cyanide	1.2	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW65

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6189

Level (low/med): LOW Date Received: 03/01/91

% Solids: 74.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19800			P
7440-36-0	Antimony	9.9	U	N	P
7440-38-2	Arsenic	11.4		N*	F
7440-39-3	Barium	97.3			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	5410		*	P
7440-47-3	Chromium	28.2			P
7440-48-4	Cobalt	12.3	B		P
7440-50-8	Copper	27.3			P
7439-89-6	Iron	34000			P
7439-92-1	Lead	17.7		*	F
7439-95-4	Magnesium	5400			P
7439-96-5	Manganese	279		N*	P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	42.1			P
7440-09-7	Potassium	3610		*	P
7782-49-2	Selenium	1.1	U	NW	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	154	U		P
7440-28-0	Thallium	1.3	U		F
7440-62-2	Vanadium	46.4		*	P
7440-66-6	Zinc	104			P
	Cyanide	1.3	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MEMW66

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Lab Sample ID: CLP6190

Level (low/med): LOW Date Received: 03/01/91

% Solids: 72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20500			P
7440-36-0	Antimony	10.2	U	N	P
7440-38-2	Arsenic	9.1		NS*	F
7440-39-3	Barium	116			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	25700		*	P
7440-47-3	Chromium	28.5			P
7440-48-4	Cobalt	10.3	B		P
7440-50-8	Copper	22.1			P
7439-89-6	Iron	28600			P
7439-92-1	Lead	25.8		S*	F
7439-95-4	Magnesium	5570			P
7439-96-5	Manganese	416		N*	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	26.8			P
7440-09-7	Potassium	3790		*	P
7782-49-2	Selenium	1.1	U	NW	F
7440-22-4	Silver	1.4	U	N	P
7440-23-5	Sodium	159	U		P
7440-28-0	Thallium	1.4	U		F
7440-62-2	Vanadium	39.6		*	P
7440-66-6	Zinc	94.1			P
	Cyanide	1.4	U		AS

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: Artifacts:

Comments:

FORM I - IN

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	25.0	U	25.0	U	25.0	U	25.0	U	13.421	B	P
Antimony	37.0	U	37.0	U	37.0	U	37.0	U	7.400	U	P
Arsenic	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	F
Barium	22.0	U	22.0	U	22.0	U	22.0	U	4.400	U	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Cadmium	4.0	U	4.0	U	4.0	U	4.0	U	0.800	U	P
Calcium	516.0	U	516.0	U	516.0	U	516.0	U	103.200	U	P
Chromium	4.0	U	4.0	U	4.0	U	4.0	U	0.996	B	P
Cobalt	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Copper	4.0	U	4.0	U	4.0	U	4.0	U	1.109	B	P
Iron	15.0	U	15.0	U	15.0	U	19.0	B	3.000	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	F
Magnesium	664.0	U	664.0	U	664.0	U	664.0	U	132.800	U	P
Manganese	2.0	U	2.7	B	2.0	U	2.0	U	0.400	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	20.0	U	20.0	U	20.0	U	20.0	U	4.000	U	P
Potassium	723.0	U	723.0	U	723.0	U	723.0	U	144.600	U	P
Selenium	4.0	U	4.0	U	4.0	U	4.0	U	0.800	U	F
Silver	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Sodium	576.0	U	576.0	U	576.0	U	576.0	U	115.200	U	P
Thallium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	F
Vanadium	4.0	U	4.0	U	-4.8	B	4.0	U	0.800	U	P
Zinc	4.0	U	4.0	U	4.0	U	4.0	U	0.800	U	P
Cyanide	20.0	U	20.0	U	20.0	U	20.0	U	1.000	U	AS

FORM III - IN

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			25.0	U							P
Antimony			37.0	U							P
Arsenic			2.0	U							F
Barium			22.0	U							P
Beryllium			2.0	U							P
Cadmium			4.0	U							P
Calcium			516.0	U							P
Chromium			4.0	U							P
Cobalt			5.0	U							P
Copper			4.0	U							P
Iron			15.0	U							P
Lead			1.0	U							F
Magnesium			664.0	U							P
Manganese			2.0	U							P
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel			20.0	U							P
Potassium			723.0	U							P
Selenium			4.0	U	4.0	U	4.0	U			F
Silver			5.0	U							P
Sodium			576.0	U							P
Thallium			5.0	U							F
Vanadium			4.0	U							P
Zinc			4.0	U							P
Cyanide											

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	2.0	U	2.0	U	2.0	U	2.0	U			F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	1.0	U	1.0	U	1.0	U	1.0	U			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic			2.0	U							F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			1.0	U	1.0	U					F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

FORM III - IN

ENVIROFORMS/INORGANIC CLP

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

MEMW58S

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 79.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	21.2691		7.8298		10.01	134.3	N	F
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	16.7985		11.4218		5.01	107.3		F
Magnesium									NR
Manganese									NR
Mercury	75-125	0.7054		0.1252	U	0.63	112.0		CV
Nickel									NR
Potassium									NR
Selenium	75-125	3.2766		1.6861		2.50	63.6	N	F
Silver									NR
Sodium									NR
Thallium	75-125	9.5394		1.2516	U	12.52	76.2		F
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

ENVIROFORMS/INORGANIC CLP

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

MEMW59S

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 82.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	31.0358		9.7345	B	121.07	17.6	N	P
Arsenic									NR
Barium	75-125	540.2130		125.3401		484.26	85.7		P
Beryllium	75-125	12.2954		0.9801	B	12.11	93.4		P
Cadmium	75-125	11.3342		0.9685	U	12.11	93.6		P
Calcium									NR
Chromium	75-125	72.1603		28.2723		48.43	90.6		P
Cobalt	75-125	126.2026		12.7010		121.07	93.7		P
Copper	75-125	80.3537		28.5098		60.53	85.6		P
Iron									NR
Lead									NR
Magnesium									NR
Manganese	75-125	659.9033		417.6858		121.07	200.1	N	P
Mercury									NR
Nickel	75-125	155.2350		36.9691		121.07	97.7		P
Potassium									NR
Selenium									NR
Silver	75-125	6.9534		1.2107	U	12.11	57.4	N	P
Sodium									NR
Thallium									NR
Vanadium	75-125	142.0312		50.6097		121.07	75.5		P
Zinc	75-125	183.8161		74.4509		121.07	90.3		P
Cyanide									NR

Comments:

ENVIROFORMS/INORGANIC CLP

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

MEMW66S

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Level (low/med): LOW
% Solids for Sample: 72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc		11.5427				13.77			NR
Cyanide	75-125	~~167.6000~~		1.3774	U	~~200.00~~	83.8		AS

All corrections
JS 4-3-91

Comments:

FORM V (PART 1) - IN

ENVIROFORMS/INORGANIC CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MEMW59A

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)		Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		177.92		40.20	B	120.0	114.8		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese		5107.68		1725.04		3500.0	96.6		P
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

MEMW58D

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 79.9 % Solids for Duplicate: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic	2.5	7.8298		12.5222		46.1	*	F
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		11.4218		22.7813		66.4	*	F
Magnesium								NR
Manganese								NR
Mercury	0.1	0.1252	U	0.1252	U			CV
Nickel								NR
Potassium								NR
Selenium	1.3	1.6861		1.9771		15.9		F
Silver								NR
Sodium								NR
Thallium		1.2516	U	1.2516	U			F
Vanadium								NR
Zinc								NR
Cyanide								NR

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

MEMW59D

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.6 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		19410.5450		16566.2320		15.8		P
Antimony		9.7345	B	11.4922	B	16.6		P
Arsenic								NR
Barium	48.4	125.3401		106.7326		16.0		P
Beryllium		0.9801	B	0.7128	B	31.6		P
Cadmium		0.9685	U	0.9685	U			P
Calcium		51836.0470		32996.3830		44.4	*	P
Chromium		28.2723		26.4827		6.5		P
Cobalt	12.1	12.7010		12.4344		2.1		P
Copper	6.1	28.5098		30.7191		7.5		P
Iron		29550.6500		31911.8190		7.7		P
Lead								NR
Magnesium		17129.6720		14976.7710		13.4		P
Manganese		417.6858		323.7351		25.3	*	P
Mercury								NR
Nickel	9.7	36.9691		40.5974		9.4		P
Potassium	1210.7	5734.6200		4108.3658		33.0	*	P
Selenium								NR
Silver		1.2107	U	1.2107	U			P
Sodium		395.5648	B	358.0439	B	10.0		P
Thallium								NR
Vanadium	12.1	50.6097		37.7010		29.2	*	P
Zinc		74.4509		80.6331		8.0		P
Cyanide								NR

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

MEMW66D

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 72.6 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide	0.7	1.3774	U	1.3774	U			AS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

ICP ID Number: ICP-B Date: 01/13/91

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200.0	25.0	P
Antimony	206.80		60.0	37.0	P
Arsenic			10.0		NR
Barium	493.40		200.0	22.0	P
Beryllium	313.00		5.0	2.0	P
Cadmium	223.80		5.0	4.0	P
Calcium	315.80		5000.0	516.0	P
Chromium	267.70		10.0	4.0	P
Cobalt	228.60		50.0	5.0	P
Copper	327.40		25.0	4.0	P
Iron	259.90		100.0	15.0	P
Lead			3.0		NR
Magnesium	279.00		5000.0	664.0	P
Manganese	257.60		15.0	2.0	P
Mercury			0.2		NR
Nickel	231.60		40.0	20.0	P
Potassium	766.40		5000.0	723.0	P
Selenium			5.0		NR
Silver	328.00		10.0	5.0	P
Sodium	588.90		5000.0	576.0	P
Thallium			10.0		NR
Vanadium	292.40		50.0	4.0	P
Zinc	213.80		20.0	4.0	P

Comments:

ENVIROFORMS/INORGANIC CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

ICP ID Number: Date: 01/13/91

Flame AA ID Number:

Furnace AA ID Number: AAS-ZEB

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		NR
Antimony			60.0		NR
Arsenic			10.0		NR
Barium			200.0		NR
Beryllium			5.0		NR
Cadmium			5.0		NR
Calcium			5000.0		NR
Chromium			10.0		NR
Cobalt			50.0		NR
Copper			25.0		NR
Iron			100.0		NR
Lead	283.30	BZ	3.0	1.0	F
Magnesium			5000.0		NR
Manganese			15.0		NR
Mercury			0.2		NR
Nickel			40.0		NR
Potassium			5000.0		NR
Selenium			5.0		NR
Silver			10.0		NR
Sodium			5000.0		NR
Thallium			10.0		NR
Vanadium			50.0		NR
Zinc			20.0		NR

Comments:

FORM X - IN

ENVIROFORMS/INORGANIC CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

ICP ID Number: Date: 01/13/91

Flame AA ID Number:

Furnace AA ID Number: AAS-ZEC

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		NR
Antimony			60.0		NR
Arsenic	193.70	BZ	10.0	2.0	F
Barium			200.0		NR
Beryllium			5.0		NR
Cadmium			5.0		NR
Calcium			5000.0		NR
Chromium			10.0		NR
Cobalt			50.0		NR
Copper			25.0		NR
Iron			100.0		NR
Lead			3.0		NR
Magnesium			5000.0		NR
Manganese			15.0		NR
Mercury			0.2		NR
Nickel			40.0		NR
Potassium			5000.0		NR
Selenium	196.00	BZ	5.0	4.0	F
Silver			10.0		NR
Sodium			5000.0		NR
Thallium	276.80	BZ	10.0	5.0	F
Vanadium			50.0		NR
Zinc			20.0		NR

Comments:

FORM X - IN

ENVIROFORMS/INORGANIC CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: DATACHEM LABORATORIES Contract: 68-D0-0149

Lab Code: DATAC Case No.: 15964 SAS No.: SDG No.: MEMW58

ICP ID Number: Date: 01/15/91

Flame AA ID Number: AAS-CVB

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		NR
Antimony			60.0		NR
Arsenic			10.0		NR
Barium			200.0		NR
Beryllium			5.0		NR
Cadmium			5.0		NR
Calcium			5000.0		NR
Chromium			10.0		NR
Cobalt			50.0		NR
Copper			25.0		NR
Iron			100.0		NR
Lead			3.0		NR
Magnesium			5000.0		NR
Manganese			15.0		NR
Mercury	253.70		0.2	0.2	CV
Nickel			40.0		NR
Potassium			5000.0		NR
Selenium			5.0		NR
Silver			10.0		NR
Sodium			5000.0		NR
Thallium			10.0		NR
Vanadium			50.0		NR
Zinc			20.0		NR

Comments:

4/25/91

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 4-10-91

SUBJECT: Review of Region V CLP Data
Received for Review on APRIL 1, 1991

FROM: Charles T. Elly, Director(5SCRL)
Central Regional Laboratory Jay Thayer 4/11/91

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: FORD MOTOR CO. (OH) SMO Case No. 15964

EPA Data Set No. _____ No. of Samples 9 DU/Activity Numbers TFA / TFA102

CRL No. 91FB38S12 - S20

SMO Traffic No. MEMW58 - 66

CLP Laboratory: DATACHEM Hrs. for Review 9hrs +0.5 HR RD 4-9-91

Following are our findings:

The laboratory's portion of case 15964 contains 9 low level soil samples assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the data.

((SEE NEXT PAGE))

Jill Siegrist

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt.Office
Edward Kantor, EMSL-Las Vegas

LABORATORY: DATACHEM **CASE: 15964**

EVIDENTIAL AUDIT: The mercury and cyanide raw data are photocopies -the originals are with case 15952 (SDG# MDAA76). The traffic report, airbill, sample tags, and chain-of-custody report are original. The airbill and sample tag numbers match the numbers on the DC-1 form. All forms and remaining raw data originals and in the order indicated on the DC-2 form.

ICAP ANALYSIS: The matrix spike recovery for Sb (17.6%) is out of control. Samples MEMW59 and 63 are estimated (J) due to low bias. All remaining Sb results are <IDL and therefore unusable (R).

The duplicate audit for Mn (25.3% RPD) was flagged by the lab; however, its RPD did not exceed the (35% RPD) technical criteria for soils. Mn results are not qualified on this basis. The matrix spike recovery for Mn (200.1%) is out of control. All Mn results are estimated (J) due to high bias.

The matrix spike recovery for Ag (57.4%) is out of control. All Ag results are estimated (UJ) due to a possible elevated detection limit.

The duplicate audit for Ca (44.4% RPD) is out of control. All Ca results are estimated (J) due to poor precision.

The duplicate audits for K (33.0% RPD) and V (29.2% RPD) were flagged by the lab; however, their duplicate differences are less than the (2X CRDL) technical criteria for soils. All K and V results are acceptable.

GFAA ANALYSIS: The duplicate audit for As (46.1% RPD) was flagged by the lab; however, its duplicate difference is less that the (2X CRDL) technical criteria for soils. As results are not qualified on this basis. The matrix spike recovery for As (134.3%) is out of control. All As results are estimated (J) due to high bias.

The duplicate audit for Pb (66.4% RPD) is out of control. All Pb results are estimated (J) due to poor precision.

The matrix spike recovery for Se (63.6%) is out of control. The lab flagged samples MEMW59-61, 65, an 66 with (W) flags which are estimated (UJ) due to a possible elevated detection limit and interference. MEMW64 is estimated (UJ) due to a possible elevated detection limit. All remaining Se results are estimated (J) due to low bias.

The Tl result for sample MEMW59 was flagged by the lab with a (W) flag and is estimated (UJ) due to interference.

OTHER QUALIFIERS: All Hg results are acceptable.

The reviewer corrected the CN results on Form V. All CN resutls are acceptable.

Reviewed by: Jill Siegrist

Date: 04-05-91

Jill Siegrist

QC EXCEPTION SUMMARY REPORT

CASE # 15964
DATA SET #
LAB Q.C. #
DATE: 4-2-91

SITE Ford Motor Co
LAB Datachem
REVIEWED BY Jill Siegnst

MATRIX: Soil
CONC. : low
MATRIX:
CONC. :

WATER SAMPLE SPK.
WATER SAMPLE DUP.
SOIL SAMPLE SPK.
SOIL SAMPLE DUP.

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER COMMENTS
	Holding Time	Lab Blank	Blank Contam	Contam Control	Prep Blk AQ	Prep Blk SOL	ICS Blk	LCS % AQ	LCS % SOL	Matrix Dup RPD	Matrix Spk %	AQ Dup RPD	AQ Spk %	Ser Dilu AQ	Ser Dilu SOL	Matrix Dup	Matrix Spike	Blank	Dup RPD	Spike %	Blank Blank	Blank Spike %	Spike Sample RPD	
Aluminum						13.421																		
Antimony											17.6													
Arsenic											134.3													
Barium																								
Beryllium																								
Cadmium																								
Calcium										44.4														
Chromium						0.996																		
Cobalt																								
Copper						1.109																		
Iron																								
Lead										Ident														
Magnesium																								
Manganese											200.1													
Mercury																								
Nickel																								
Potassium																								
Selenium										~~[illegible]~~	~~[illegible]~~	103.6												
Silver											57.4													
Sodium																								
Thallium																								
Tin																								
Vanadium																								
Zinc																								
Cyanide																								

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

CRL Receipt Date 4/1/91 FIT Receipt Date 4/11/91 Review Completed 4/26/91

TO: Nahid Brown
FROM: M. Yang
SUBJECT: Ford Motor Co. (OH)
PAN: FOH0646SA (1 hour charged for review) Case # 15964

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
# _____	Low Soil	# 9	Low Soil
_____	Low Water	_____	Low Water
_____	Drinking Water	_____	Drinking Water
_____	Other	_____	Other

Project Data Status _____ Completed!!

X Incomplete, awaiting Organic Soils

FIT Data Review Findings:

Check Data Sheets for Transcription Errors

X Compounds were detected in sample(s); see enclosed sheet.

Book No. 9 Page No. _____ Date Sampled 2/28/91

0759:2

recycled paper

4/25/91

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/8/91

SUBJECT: Review of Region V CLP Data
Received for Review on April 4, 1991

FROM: Charles T. Elly, Director(5SCRL) Patrick J. Chunlle for
Central Regional Laboratory

TO: Data User: Fit

5/10/91

We have reviewed the data for the following case(s).

SITE NAME: Ford motor Co plant (OH) Ohio-Truck SMO Case No. 15964

EPA Data Set No. _____ No. of Samples 9 DU/Activity Numbers TFA-1 TFA102

CRL No. 91FB38512-20

SMO Traffic No. EMW 72-80

CLP Laboratory: NET Hrs. for Review 13+2=15 NSW

Following are our findings:

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt.Office
Edward Kantor, EMSL-Las Vegas

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

The laboratory received nine (9) Soil samples on March 1, 1991 for full organic analysis in good condition.

All low level VOA samples were analyzed outside the seven (7) days holding time but within 14 days; Therefore, results of the above VOA samples should be considered estimated (J) for both positives and non-detect (UJ).

All low level SVOA soil samples except EMW76 were extracted within the fourteen (14) days holding time; Therefore, results are acceptable. Soil samples EMW76 was extracted on the 21st day of receipt day; Therefore, results of this sample should be considered estimated (J) for both positives and non-detect (UJ).

All low level pesticides soil samples were extracted within the fourteen (14) days holding time; Therefore, results are acceptable.

The laboratory seem to have spiked all SVOA matrix spikes at 2X the SOW required level; Therefore most reported concentrations of the spike compounds were outside the upper calibration range; Therefore, all positive results of any of the above compounds in the original unspiked sample (EMW80) should be considered estimated (J).

This reviewer comments are included in the following pages of this narrative.

Reviewed by: Ziyad A. Rajabi ZR
Phone: (312) 886-2919 Hrs. Required
Date: May 1, 1991 for Review (13)

Narrative

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

1. HOLDING TIMES:

The laboratory received nine (9) Soil samples on March 1, 1991 for full organic analysis in good condition.

All low level VOA samples were analyzed outside the seven (7) days holding time but within 14 days; Therefore, results of the above VOA samples should be considered estimated (J) for both positives and non-detect (UJ).

All low level SVOA soil samples except EMW76 were extracted within the fourteen (14) days holding time; Therefore, results are acceptable. Soil samples EMW76 was extracted on the 21st day of receipt day; Therefore, results of this sample should be considered estimated (J) for both positives and non-detect (UJ).

All low level pesticides soil samples were extracted within the fourteen (14) days holding time; Therefore, results are acceptable.

All SVOA and Pesticides samples were analyzed within the 40 days limit.

2. GC/MS TUNING AND GC PERFORMANCE:

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

DDT retention time met the required minimum retention time (>12 minutes) criteria for both the primary (DB5) and secondary column (DB608).

%D of retention time shift for DBC met the QC criteria for

Reviewed by: Ziyad A. Rajabi
Phone: (312) 886-2919
Date: May 1, 1991

capillary columns (<0.3) on both columns.

3. CALIBRATION:

Initial and continuing calibrations of VOA and SVOA standards were evaluated for the target compound list (TCL) and outliers were recorded on the outlier forms included as part of this narrative.

%D of initial calibrations for alpha-BHC, delta-BHC, and 4,4-DDT exceeded the 15% RSD on the primary column except for Methoxychlor. Initial calibrations met the 20% RSD on the secondary column except for 4,4'-DDT (58.4) and alpha-BHC (21.3); Therefore, results of pesticides sample should be considered estimated (J) for both positives and non-detect (UJ) of the above non-conforming compounds.

The laboratory designated both pesticides columns as quantitation columns on forms (9) which may have been an oversight. No action is necessary based on the designation error.

4. METHOD BLANK:

VBLKS1, VBLKS2, BLKS3, and VBLKS4 are the low level volatile blanks. VBLKS1 contained Methylene Chloride, Acetone, 2-Hexanone, Toluene, Xylene, and no TICs. VBLKS2 contained Methylene Chloride and 2 TICs. VBLKS3 contained Acetone and no TICs. VBLKS4 contained Methylene Chloride and 1 TIC. Methylene Chloride, Acetone, 2-Hexanone and Toluene are common laboratory contaminants their presence in any of the associated samples is flagged as non-detect (U) when the sample result is less than (<) 10x the blank result. The presence of other TCLs in any of the associated samples is flagged as non-detect (U) when the sample result is less than (<) 5x the blank result. Associated samples are included on form (IV).

SBLKS1 and SBLKS2 are the low level semi-volatile method blanks. SBLKS1 contained Diethylphthalate, Di-n-butylphthalate, bis-(2-ethylhexyl)phthalate, and no TICs. SBLKS2 contained Di-n-

butylphthalate, bis-(2-ethylhexyl)phthalate, and 4 TICs; Although, Pentachlorophenol was reported below CRQL in the raw data, it was not reported in form 1 of SBLKS2. Diethylphthalate, Di-n-butylphthalate, and bis-(2-ethylhexyl)phthalate are common laboratory contaminants. Their presence in any of the associated samples is flagged as non-detect (U) when the sample result is less than (<) 10x the blank result. For other TCLs present in the blank, their presence in any of the associated samples is flagged as non-detect (U) when the sample result is less than (<) 5x the blank result. Associated samples are included on form (IV).

PBLKS1 is the Pesticides method blanks. PBLKS1 contained no pesticide residue.

5. SURROGATE RECOVERY:

All soil surrogates for low level VOA met QC criteria except for high Toluene-d8 recovery in EMW73; Therefore, results of the above samples should be considered estimated (J) for positives and non-detect (UJ).

All soil surrogates for low level SVOA met QC criteria except no (0) surrogate recovery observed in SVOA blank SBLKS1 under which all samples except for EMW76 were extracted; Therefore, results of all effected samples should be considered estimated (J) for positives and non-detect (UJ).

All soil surrogates for low level Pesticides met QC criteria except for no (0) DBC recovery in PBLK01 and EMW76. All pesticides samples were extracted under PBLK01; Therefore, results of all pesticides samples should be considered estimated (J) for positives and non-detect (UJ).

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND RPD:

Sample EMW80 was used as the soil spike for low level VOA. All matrix spike, matrix spike duplicate recovery and %RPDs met the QC criteria; Therefore, data is acceptable.

Reviewed by: Ziyad A. Rajabi
Phone: (312) 886-2919
Date: May 1, 1991

Sample EMW80 was used as the soil spike for low level SVOA. All matrix spike, matrix spike duplicate recovery were outside the QC criteria; Therefore, all positive results of any of the above compounds in the original unspiked sample (EMW80) should be considered estimated (J). The laboratory seem to have spiked all SVOA matrix spikes at 2X the SOW required level; Therefore most reported concentrations of the spike compounds were outside the upper calibration range; Therefore, all positive results of any of the above compounds in the original unspiked sample (EMW80) should be considered estimated (J).

All %RPDs for SVOA met the QC criteria; Therefore, data is acceptable.

Sample EMW80 was used as the pesticides matrix spike, matrix spike duplicate. All recovery and %RPDs met the QC criteria; Therefore, data is acceptable.

7. FIELD BLANK AND FIELD DUPLICATE:

No field duplicates or field blanks were designated in this data case.

8. INTERNAL STANDARDS (IS):

All VOA internal standard areas and RTs met QC criteria except for low IS3 in EMW73, EMW74, and EMW79; Low IS2 and IS3 was observed in EMW76. All samples were rerun; However, the same internal standards were outside the QC limits for the reanalysis; Therefore, all reported concentrations of the compounds quantitated based on the above internal standards in the above nonconforming samples should be considered as estimated (J) for positives and for non-detect (UJ). For a list of effected compounds, please refer to table (4) included with this narrative.

All SVOA internal standard areas and RTs met QC criteria except for low IS6 in EMW73 and its rerun; Therefore, all reported concentrations of the compounds quantitated based on the

Reviewed by: Ziyad A. Rajabi
Phone: (312) 886-2919
Date: May 1, 1991

above internal standards in the above nonconforming samples should be considered as estimated (J) for positives and for non-detect (UJ). For a list of effected compounds, please refer to table (4) included with this narrative.

This reviewer also feels that VOA and SVOA GC/MS instrument sensitivity was low. This was apparent from the low area counts of all internal standards. No action is necessary based on the sensitivity as it did not seem to impact the data quality.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

All VOA, ABN and pesticides target compounds and TICs were properly reported; Therefore, data is acceptable.

10. COMPOUND IDENTIFICATION :

Target compounds and TICs were identified by "best fit" library search method. Therefore data is acceptable.

11. SYSTEM PERFORMANCE:

VOA and ABN GC/MS and pesticides baseline indicated acceptable performance for all analyses.

12. OVERALL CASE ASSESSMENT:

VOA samples EMW72 contained 4 TCLs and 5 TICs. Sample EMW73 contained 3 TCLs and 1 TIC. Sample EMW73 was reanalyzed due to bad internal standard areas (section 8) the reanalysis reported no TCLs and 2 TICs. Samples EMW74 contained 1 TCL and no TICs. Sample EMW74 was reanalyzed due to bad internal standard areas (section 8) the reanalysis reported no TCLs and 3 TICs. Sample EMW75 contained 1 TCL and no TICs. Sample EMW76 contained 2 TCLs and 1 TIC. Sample EMW76 was reanalyzed due to bad internal standard areas (section 8) the reanalysis reported 4 TCLs and 8

Reviewed by: Ziyad A. Rajabi
Phone: (312) 886-2919
Date: May 1, 1991

TICs. Samples EMW77 contained no TCLs and no TICs. Sample EMW78 contained 1 TCL and 1 TIC. Sample EMW79 contained 2 TCLs and 2 TICs. Sample EMW79 was reanalyzed due to bad internal standard areas (section 8) the reanalysis reported 3 TCLs and 1 TIC. Sample EMW80 contained 2 TCLs and 1 TIC.

SVOA samples EMW72 contained no TCLs and 11 TICs. Sample EMW73 contained no TCLs and 2 TICs. Sample EMW73 was reanalyzed due to bad internal standard areas (section 8) the reanalysis reported no TCLs and 4 TICs. Samples EMW74 contained no TCLs and 2 TICs. Sample EMW75 contained 10 TCLs and 1 TIC. Sample EMW76 contained 9 TCLs and 21 TICs; Although, Benzoic acid was reported below CRQL in the raw data, it was not reported in form 1. Samples EMW77 contained 3 TCLs and 5 TICs. Sample EMW78 contained 10 TCLs and 1 TIC. Sample EMW79 contained no TCLs and 4 TICs. Sample EMW80 contained 2 TCLs and 3 TICs.

Pesticides samples EMW72, EMW73, EMW75, EMW76, EMW77, EMW78, and EMW79, reported no pesticides residues. Samples EMW74 reported 3 TCL. Samples EMW80 reported 2 TCL. Raw data of samples EMW72 and EMW75 reported peaks at 15.14 and 19.89 minutes which are indicative of AR1016 although they were not reported on form 1. Raw data of sample EMW74 reported peaks for 4,4'-DDT although they were not reported on form 1.

This reviewer found no additional case problems to be noted.

Reviewed by: Ziyad A. Rajabi
Phone: (312) 886-2919
Date: May 1, 1991

CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 15964 CONTRACTOR NET

Instrument # 7002F	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	2-8-91			3-8-91 953			3-11-91 1020			3-13-91 1119			3-14-91 1057		
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane	.649			.323	50.2	J	.322	50.4	J	.406	37.5	J	.300	53.7	J
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride	1.321									3.334	152.4	J			
Acetone															
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone															
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

	VBLKS1	VBLKS2	VBLKS3	VBLKS4
AFFECTED SAMPLES:	EMW73	EMW72	EMW75	EMW80MSD
	EMW74	73RE	76RE	
		74RE	78	
		76	79	
		77	79RE	
			80MS	

Reviewer's Initials/Date: ZR 4-17

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 15964 CONTRACTOR NET

Instrument # 7002D	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	3/13/91			3-20-91 1311			3-22-91 1548			4-1-91 1051					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether		-													
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol	.881			.567	35.6	J									
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether															
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol								--							
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															
Dibenzofuran															

AFFECTED SAMPLES:

SBLKS1	EMW73RE	SBLKS2
EMW72		EMW76
73		
74		
75		
77		
78		
79		
80		
80MS		
80MSD		

Reviewer Initials/Date: ZR 4-17-91

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 15964 CONTRACTOR NET

Instrument # 7002-D	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	3-13-91			3-20-91 1131			3-22-91 1548			4-1-91 1051					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene		-													
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															
3,3'-Dichloro benzidine	.148									.101	31.6	J			

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: ZL 4-17-91

8/87

*TABLE 4

VOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

Bromochloromethane	1,4-Difluorobenzene	Chlorobenzene-d_5
Chloromethane	2- Butanone	2-Hexanone
Bromomethane	1,1,1-Trichloroethane	4-Methyl-2-Pentanone
*Vinyl Chloride	Carbon Tetrachloride	Tetrachloroethene
Chloroethane	Vinyl Acetate	1,1,2,2-Tetrachloroethane
Methylene Chloride	Bromodichloromethane	*Toluene
Acetone	*1,2-Dichloropropane	Chlorobenzene
Carbon Disulfide	trans-1,3-Dichloropropane	*Ethylbenzene
*1,1-Dichloroethene	Trichloroethene	Styrene
1,1-Dichloroethane	Dibromochloromethane	Xylene (total)
1,2-Dichloroethene (total)	1,1,2-Trichloroethane	Bromofluorobenzene (surr)
*Chloroform	Benzene	Toluene-d_8 (surr)
1,2-Dichloroethane	cis-1,3-Dichloropropene	
1,2-Dichloroethane-d_4 (surr)	Bromoform	

(surr) = surrogate compound
*Calibration check compounds

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Dichlorobenzene-d_4	Naphthalene-d_8	Acenaphthene-d_{10}	Phenanthrene-d_{10}	Chrysene-d_{12}
Phenol	Nitrobenzene	Hexachlorocyclopentadiene	4,6-Dinitro-2-methylphenol	Pyrene
bis(2-Chloroethyl) ether	Isophorone	2,4,6-Trichlorophenol	N-nitrosodiphenylamine	Butylbenzyl Phthalate
2-Chlorophenol	2-Nitrophenol	2,4,5-Trichlorophenol	1,2-Diphenylhydrazine	3,3'-Dichlorobenzidine
1,3-Dichlorobenzene	2,4-Dimethylphenol	2-Chloronaphthalene	4-Bromophenyl Phenyl Ether	Benzo(a)anthracene
1,4-Dichlorobenzene	Benzoic acid	2-Nitroaniline	Hexachlorobenzene	bis(2-ethylhexyl Phthalate
Benzyl Alcohol	bis(2-Chloroethoxy)methane	Dimethyl Phthalate	Pentachlorophenol	Chrysene
1,2-Dichlorobenzene	2,4-Dichlorophenol	Acenaphthylene	Phenanthrene	Terphenyl-d_{14} (surr)
2-Methylphenol	1,2,4-Trichlorobenzene	3-Nitroaniline	Anthracene	
bis(2-Chloroisopropyl)ether	Naphthalene	Acenaphthene	Di-n-butyl Phthalate	
4-Methylphenol	4-Chloroaniline	2,4-Dinitrophenol	Fluoranthene	
N-nitroso-Di-n-propylamine	Hexachlorobutadiene	4-Nitrophenol		
Hexachloroethane	4-Chloro-3-methylphenol	Dibenzofuran		
2-Fluorophenol (surr)	2-Methylnaphthalene	2,4-Dinitrotoluene		
Phenol-d_6 (surr)	Nitrobenzene-d_5 (surr)	2,6-Dinitrotoluene		
		Diethyl Phthalate		
		4-Chlorophenyl-phenyl ether		
		Fluorene		
		4-Nitroaniline		
		2-Fluorobiphenyl (surr)		
		2,4,6-Tribromo Phenol (surr)		

Perylene-d_{12}
Di-n-octyl Phthalate
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(a)pyrene
Indeno(1,2,3-cd) pyrene
Dibenz(a,h) anthracene
Benzo(g,h,i) perylene

surr = surrogate compound

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

CRL Receipt Date 4/4/91 FIT Receipt Date 5/10/91 Review Completed 5/15/91

TO: N. Brown
FROM: Kennedy
SUBJECT: Ford Motor Co.
PAN: FOH064655A (1 hour charged for review) Case # 15964

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
# 9	Low Soil	#	Low Soil
	Low Water		Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status ✓ Completed!!

Incomplete, awaiting Missing EMW77 VOA

Call EPA 5-15-91 (complete EMW77 is in package)

FIT Data Review Findings:

Check Data Sheets for Transcription Errors

X Compounds were detected in sample(s); see enclosed sheet.

Book No. 9 Page No. Date Sampled 2/28/91

0759:2

recycled paper

TABLE 4 -
Chemical

TECHNICAL REVIEWER COMMENT SHEET Page ___ of ___

CERCLIS Site Name: Ford Motor Co. Ohio Truck Plant
PAN: FOHO C046SA

Meeting Date: 7/19/91

Time Slot: am (8-10)
midday (10-2) pm (2-4)

Author: Sharma
Primary Reviewer: Duet

Technical Review Committee
Chairperson: Kurvepa
Chemist: Sedlacek
Geologist: Corns

Page/Paragraph/Line (Part/Section/Number)		Comments
Table 4-1	Sb	Replace NON Detect with "R" put "R" in Analyte Qualifier defination "Unusable data"
S1 (MEMWS8)		K results should be 3880
S8 (MEMW5)		Mg results should be 5400
S8 (EMW77)		~~NA~~ data

Use Inorg 90 Org 87 Detection Limits
Remove TIC sheet

Reviewer

Date

QA005(10/31/90)

WORD PROCESSING REQUEST

ORIGINATOR: _____ RETURN DOC. TO: _____
SITE/PROJECT: _____ JOB CHARGE NO.: _____
DOCUMENT DESCRIPTION: _____

|__| DRAFT |__| REVISION |__| FINAL |__| DELETE AFTER 60 DAYS |__| ARCHIVE

ORIGINAL SUBMITTAL	REVISION NO. 1	REVISION NO. 2
DATE IN:	DATE IN:	DATE IN:
TIME IN:	TIME IN:	TIME IN:
DATE NEEDED:	DATE NEEDED:	DATE NEEDED:
TIME NEEDED:	TIME NEEDED:	TIME NEEDED:

SPECIAL INSTRUCTIONS: _____

FEEDBACK: _____

TO BE COMPLETED BY WORD PROCESSOR

ORIGINAL SUBMITTAL	REVISION NO. 1	REVISION NO. 2
Date:	Date: 07/02/91	Date:
Time Out:	Time Out: 11:50	Time Out:
Disk/Doc. No.:	Disk/Doc. No.: 90MZ	Disk/Doc. No.:
DELETION DATE:	INITIALS: AHH	INITIALS:
INITIALS:		

White/Original Submittal Yellow/Revision No. 1 Pink/Revision No. 2

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES
FOR THE FMC SITE SSI

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	S6	S7	S8	S9
Date	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91
Time	1210	1230	1230	1310	1415	1445	1450	1505	1530
CLP Organic Traffic Report Number	EMW72	EMW73	EMW74	EMW75	EMW76	EMW77	EMW78	EMW79	EMW80
CLP Inorganic Traffic Report Number	MEMW58	MEMW59	MEMW60	MEMW61	MEMW62	MEMW63	MEMW64	MEMW65	MEMW66
Compound Detected (values in ug/kg)									
Volatile Organics									
methylene chloride	—	—	—	9 J	25 J	—	11 J	12 J	9 J
acetone	130 J	12 J	—	—	—	—	—	—	—
carbon disulfide	2 J	—	—	—	—	—	—	—	14 J
chloroform	—	—	2 J	—	1 J	—	—	—	—
1,1,1-trichloroethane	—	2 J	—	—	—	—	—	—	—
benzene	2 J	—	—	—	—	—	—	—	—
toluene	3 J	15 J	—	—	7 J	—	—	4 J	—
ethylbenzene	—	—	—	—	—	—	—	26 J	—
xylenes (total)	—	—	—	—	12 J	—	—	—	—
Semivolatile Organics									
2-methylnaphthalene	—	—	—	—	130 J	—	—	—	—
phenanthrene	—	—	—	230 J	92 J	130 J	250 J	—	—
fluoranthene	—	—	—	550 J	400 J	200 J	550 J	—	—
pyrene	—	—	—	440 J	310 J	160 J	470 J	—	—
benzo[a]anthracene	—	—	—	260 J	140 J	—	260 J	—	—
chrysene	—	—	—	290 J	160 J	—	330 J	—	—
benzo[b]fluoranthene	—	—	—	210 J	110 J	—	240 J	—	89 J
benzo[k]fluoranthene	—	—	—	340 J	120 J	—	230 J	—	100 J
benzo[a]pyrene	—	—	—	240 J	91 J	—	200 J	—	—
indeno[1,2,3-cd]pyrene	—	—	—	160 J	—	—	110 J	—	—
benzo[g,h,i]perylene	—	—	—	170 J	—	—	100 J	—	—
Pesticides/PCBs									
4,4'-DDE	—	—	130J	—	—	—	—	—	8.4 J
4,4'-DDD	—	—	59J	—	—	—	—	—	25 J

— Not detected.

Table 4-1 (Cont.)

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	S6	S7	S8	S9
Analyte Detected (values in mg/kg)									
aluminum	24,300	19,400	26,800	21,900	18,300	24,200	17,600	19,800	20,500
antimony	R	9.7 BNJ	R	R	R	13.6 BNJ	R	R	R
arsenic	7.8 N*J	7.9 N*J	7.6 Ns*J	31.1 N*J	10.7 Ns*J	11.1 Ns*J	9.1 N*J	11.4 N*J	9.1Ns*J
barium	174	125	132	124	76.5	167	94.9	97.3	116
beryllium	2.3	0.98 B	1.4	1.1 B	1.5	2.3	1.7	1.4	1.4
cadmium	1.3	—	--	—	0.95 B	--	—	--	—
calcium	50,800 *J	51,800 *J	6,460 *J	11,800 *J	18,100*J	67,600 *J	20,700 *J	5,410 *J	25,700 *J
chromium	32.0	28.3	29.5	33.4	32.6	34.4	25.4	28.2	28.5
cobalt	13.2	12.7	7.8 B	12.1	11.4 B	12.4 B	15.2	12.3 B	10.3 B
copper	41.4	28.5	26.4	26.5	31.1	27.0	23.3	27.3	22.1
iron	36,900	29,600	22,500	31,300	29,400	29,300	45,400	34,000	28,600
lead	11.4 *J	21.3 s*J	23.6 s*J	29.2 *J	11.0 s*J	33.7 *J	15.0 *J	17.7 *J	25.8 s*J
magnesium	10,700	17,100	4,200	8,660	6,190	14,600	7,220	5,400	5,570
manganese	1,700 N*J	418 N*J	189 N*J	389 N*J	569 N*J	2,830 N*J	755 N*J	279 N*J	416 N*J
nickel	34.3	37.0	29.2	53.5	39.7	33.0	33.7	42.1	26.8
potassium	3,880 *	5,730 *	3,320 *	3,910 *	4,660 *	3,980 *	3,490 *	3,610 *	3,790 *
selenium	1.7 NsJ	—	--	--	3.9 NsJ	1.9 NsJ	—	--	--
sodium	385 B	396 B	198 B	203 B	226 B	454 B	202 B	—	--
thallium	—	—	--	--	1.5 B	--	—	—	--
vanadium	56.8 *	50.6 *	49.0 *	47.9 *	113 *	50.5 *	48.0 *	46.4 *	39.6 *
zinc	233	74.5	62.1	122	107	95.6	98.9	104	94.1

— Not detected.

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
s	Analysis by Method of Standard Additions.	Value is quantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES
FOR THE FMC SITE SSI

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	S6	S7	S8	S9
Date	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91
Time	1210	1230	1230	1310	1415	1445	1450	1505	1530
CLP Organic Traffic Report Number	EMW72	EMW73	EMW74	EMW75	EMW76	EMW77	EMW78	EMW79	EMW80
CLP Inorganic Traffic Report Number	MEMW58	MEMW59	MEMW60	MEMW61	MEMW62	MEMW63	MEMW64	MEMW65	MEMW66
Compound Detected (values in ug/kg)									
Volatile Organics									
methylene chloride	--	--	--	9 J	25 J	--	11 J	12 J	9 J
acetone	130 J	12 J	--	--	--	--	--	--	--
carbon disulfide	2 J	--	--	--	--	--	--	--	14 J
chloroform	--	--	2 J	--	1 J	--	--	--	--
1,1,1-trichloroethane	--	2 J	--	--	--	--	--	--	--
benzene	2 J	--	--	--	--	--	--	--	--
toluene	3 J	15 J	--	--	7 J	--	--	4 J	--
ethylbenzene	--	--	--	--	--	--	--	26 J	--
xylenes (total)	--	--	--	--	12 J	--	--	--	--
Semivolatile Organics									
2-methylnaphthalene	--	--	--	--	130 J	--	--	--	--
phenanthrene	--	--	--	230 J	92 J	130 J	250 J	--	--
fluoranthene	--	--	--	550 J	400 J	200 J	550 J	--	--
pyrene	--	--	--	440 J	310 J	160 J	470 J	--	--
benzo[a]anthracene	--	--	--	260 J	140 J	--	260 J	--	--
chrysene	--	--	--	290 J	160 J	--	330 J	--	--
benzo[b]fluoranthene	--	--	--	210 J	110 J	--	240 J	--	89 J
benzo[k]fluoranthene	--	--	--	340 J	120 J	--	230 J	--	100 J
benzo[a]pyrene	--	--	--	240 J	91 J	--	200 J	--	--
indeno[1,2,3-cd]pyrene	--	--	--	160 J	--	--	110 J	--	--
benzo[g,h,i]perylene	--	--	--	170 J	--	--	100 J	--	--
Pesticides/PCBs									
4,4'-DDE	--	--	130J	--	--	--	--	--	8.4 J
4,4'-DDD	--	--	59J	--	--	--	--	--	25 J

-- Not detected.

Table 4-1 (Cont.)

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	S6	S7	S8	S9
Analyte Detected (values in mg/kg)									
aluminum	24,300	19,400	26,800	21,900	18,300	24,200	17,600	19,800	20,500
antimony	R	9.7 BNJ	R	R	R	13.6 BNJ	R	R	R
arsenic	7.8 N*J	7.9 N*J	7.6 Ns*J	31.1 N*J	10.7 Ns*J	11.1 Ns*J	9.1 N*J	11.4 N*J	9.1Ns*J
barium	174	125	132	124	76.5	167	94.9	97.3	116
beryllium	2.3	0.98 B	1.4	1.1 B	1.5	2.3	1.7	1.4	1.4
cadmium	1.3	--	--	--	0.95 B	--	--	--	--
calcium	50,800 *J	51,800 *J	6,460 *J	11,800 *J	18,100*J	67,600 *J	20,700 *J	5,410 *J	25,700 *J
chromium	32.0	28.3	29.5	33.4	32.6	34.4	25.4	28.2	28.5
cobalt	13.2	12.7	7.8 B	12.1	11.4 B	12.4 B	15.2	12.3 B	10.3 B
copper	41.4	28.5	26.4	26.5	31.1	27.0	23.3	27.3	22.1
iron	36,900	29,600	22,500	31,300	29,400	29,300	45,400	34,000	28,600
lead	11.4 *J	21.3 s*J	23.6 s*J	29.2 *J	11.0 s*J	33.7 *J	15.0 *J	17.7 *J	25.8 s*J
magnesium	10,700	17,100	4,200	8,660	6,190	14,600	7,220	5,400	5,570
manganese	1,700 N*J	418 N*J	189 N*J	389 N*J	569 N*J	2,830 N*J	755 N*J	279 N*J	416 N*J
nickel	34.3	37.0	29.2	53.5	39.7	33.0	33.7	42.1	26.8
potassium	3,880 *	5,730 *	3,320 *	3,910 *	4,660 *	3,980 *	3,490 *	3,610 *	3,790 *
selenium	1.7 NsJ	--	--	--	3.9 NsJ	1.9 NsJ	--	--	--
sodium	385 B	396 B	198 B	203 B	226 B	454 B	202 B	--	--
thallium	--	--	--	--	1.5 B	--	--	--	--
vanadium	56.8 *	50.6 *	49.0 *	47.9 *	113 *	50.5 *	48.0 *	46.4 *	39.6 *
zinc	233	74.5	62.1	122	107	95.6	98.9	104	94.1

-- Not detected.

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
s	Analysis by Method of Standard Additions.	Value is quantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	S6	S7	S8	S9
Date	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91
Time	1210	1230	1230	1310	1415	1445	1450	1505	1530
CLP Organic Traffic Report Number	EMW72	EMW73	EMW74	EMW75	EMW76	EMW77	EMW78	EMW79	EMW80
CLP Inorganic Traffic Report Number	MEMW58	MEMW59	MEMW60	MEMW61	MEMW62	MEMW63	MEMW64	MEMW65	MEMW66
Compound Detected (values in ug/kg)									
Volatile Organics									
methylene chloride	--	--	--	9 J	25 J	--	11 J	12 J	9 J
acetone	130 J	12 J	--	--	--	--	--	--	--
carbon disulfide	2 J	--	--	--	--	--	--	--	14 J
chloroform	--	--	2 J	--	1 J	--	--	--	--
1,1,1-trichloroethane	--	2 J	--	--	--	--	--	--	--
benzene	2 J	--	--	--	--	--	--	--	--
toluene	3 J	15 J	--	--	7 J	--	--	4 J	--
ethylbenzene	--	--	--	--	--	--	--	26 J	--
xylenes (total)	--	--	--	--	12 J	--	--	--	--
Semivolatile Organics									
2-methylnaphthalene	--	--	--	--	130 J	--	--	--	--
phenanthrene	--	--	--	230 J	92 J	130 J	250 J	--	--
fluoranthene	--	--	--	550 J	400 J	200 J	550 J	--	--
pyrene	--	--	--	440 J	310 J	160 J	470 J	--	--
benzo[a]anthracene	--	--	--	260 J	140 J	--	260 J	--	--
chrysene	--	--	--	290 J	160 J	--	330 J	--	--
benzo[b]fluoranthene	--	--	--	210 J	110 J	--	240 J	--	89 J
benzo[k]fluoranthene	--	--	--	340 J	120 J	--	230 J	--	100 J
benzo[a]pyrene	--	--	--	240 J	91 J	--	200 J	--	--
indeno[1,2,3-cd]pyrene	--	--	--	160 J	--	--	110 J	--	--
benzo[g,h,i]perylene	--	--	--	170 J	--	--	100 J	--	--
Pesticides/PCBs									
4,4'-DDE	--	--	130 J	--	--	--	--	--	8.4 J
4,4'-DDD	--	--	59 J	--	--	--	--	--	25 J

-- Not detected.

Table 4-1 (Cont.)

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	S6	S7	S8	S9
~~TICs+~~									
Undecane (1120-21-4)	600 J	--	--	--	--	--	--	--	--
Tri-decane (629-50-5)	600 J	--	--	--	--	--	--	--	--
Butane (106-97-8)	--	2,000 J	--	--	--	--	--	--	--
Sulphur ~~(10544-50-0)~~	--	--	--	--	900 J	--	--	--	--
Analyte Detected (values in mg/kg)									
aluminum	24,300	19,400	26,800	21,900	18,300	24,200	17,600	19,800	20,500
antimony	--	9.7 BNJ	--	--	--	13.6 BNJ	--	--	--
arsenic	7.8 N*J	7.9 N*J	7.6 Ns*J	31.1 N*J	10.7 Ns*J	11.1 Ns*J	9.1 N*J	11.4 N*J	9.1Ns*J
barium	174	125	132	124	76.5	167	94.9	97.3	116
beryllium	2.3	.98 B	1.4	1.1 B	1.5	2.3	1.7	1.4	1.4
cadmium	1.3	--	--	--	0.95 B	--	--	--	--
calcium	50,800 *J	51,800 *J	6,460 *J	11,800 *J	18,100*J	67,600 *J	20,700 *J	5,410 *J	25,700 *J
chromium	32	28.3	29.5	33.4	32.6	34.4	25.4	28.2	28.5
cobalt	13.2	12.7	7.8 B	12.1	11.4 B	12.4 B	15.2	12.3 B	10.3 B
copper	41.4	28.5	26.4	26.5	31.1	27	23.3	27.3	22.1
iron	36,900	29,600	22,500	31,300	29,400	29,300	45,400	34,000	28,600
lead	11.4 *J	21.3 s*J	23.6 s*J	29.2 *J	11 s*J	33.7 *J	15 *J	17.7 *J	25.8 s*J
magnesium	10,700	17,100	4,200	8,660	6,190	14,600	7,220	54,000	5,570
manganese	1,700 N*J	418 N*J	189 N*J	389 N*J	569 N*J	2,830 N*J	755 N*J	279 N*J	416 N*J
nickel	34.3	37	29.2	53.5	39.7	33	33.7	42.1	26.8
potassium	3,380 *	5,730 *	3,320 *	3,910 *	4,660 *	3,980 *	3,490 *	3,610 *	3,790 *
selenium	1.7 NsJ	--	--	--	3.9 NsJ	1.9 NsJ	--	--	--
sodium	385 B	396 B	198 B	203 B	226 B	454 B	202 B	--	--
thallium	--	--	--	--	1.5 B	--	--	--	--
vanadium	56.8 *	50.6 *	49 *	47.9 *	113 *	50.5 *	48 *	46 *	39.6 *
zinc	233	74.5	62.1	122	107	95.6	98.9	104	94.1

-- Not detected.

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
s	Analysis by Method of Standard Additions.	Value is quantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	S6	S7	S8	S9
Date	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91
Time	1210	1230	1230	1310	1415	1445	1450	1505	1530
CLP Organic Traffic Report Number	EMW72	EMW73	EMW74	EMW75	EMW76	EMW77	EMW78	EMW79	EMW80
CLP Inorganic Traffic Report Number	MEMW58	MEMW59	MEMW60	MEMW61	MEMW62	MEMW63	MEMW64	MEMW65	MEMW66
Compound Detected (values in ug/kg)									
Volatile Organics									
methylene chloride	--	--	--	9 J	25 J	--	11 J	12 J	9 J
acetone	130 J	12 J	--	--	--	--	--	--	--
carbon disulfide	2 J	--	--	--	--	--	--	--	14 J
chloroform	--	--	2 J	--	1 J	--	--	--	--
1,1,1-trichloroethane	--	2 J	--	--	--	--	--	--	--
benzene	2 J	--	--	--	--	--	--	--	--
toluene	3 J	15 J	--	--	7 J	--	--	4 J	--
ethylbenzene	--	--	--	--	--	--	--	26 J	--
xylenes (total)	--	--	--	--	12 J	--	--	--	--
Semivolatile Organics									
2-methylnaphthalene	--	--	--	--	130 J	--	--	--	--
phenanthrene	--	--	--	230 J	92 J	130 J	250 J	--	--
fluoranthene	--	--	--	550 J	400 J	200 J	550 J	--	--
pyrene	--	--	--	440 J	310 J	160 J	470 J	--	--
benzo[a]anthracene	--	--	--	260 J	140 J	--	260 J	--	--
chrysene	--	--	--	290 J	160 J	--	330 J	--	--
benzo[b]fluoranthene	--	--	--	210 J	110 J	--	240 J	--	89 J
benzo[k]fluoranthene	--	--	--	340 J	120 J	--	230 J	--	100 J
benzo[a]pyrene	--	--	--	240 J	91 J	--	200 J	--	--
indeno[1,2,3-cd]pyrene	--	--	--	160 J	--	--	110 J	--	--
benzo[g,h,i]perylene	--	--	--	170 J	--	--	100 J	--	--
Pesticides/PCBs									
4,4'-DDE	--	--	130	--	--	--	--	--	8.4 J
4,4'-DDD	--	--	59	--	--	--	--	--	25 J

-- Not detected.

Table 4-1 (Cont.)

Sample Collection Information and Parameters	S1	S2	S3	S4	S5	S6	S7	S8	S9
TICs+									
Undecane (1120-21-4)	600 J	--	--	--	--	--	--	--	--
Tri-decane (629-50-5)	600 J	--	--	--	--	--	--	--	--
Butane (106-97-8)	--	2,000 J	--	--	--	--	--	--	--
Sulphur (10544-50-0)	--	--	--	--	900 J	--	--	--	--
Analyte Detected (values in mg/kg)									
aluminum	24,300	19,400	26,800	21,900	18,300	24,200	17,600	19,800	20,500
antimony	--	9.7 BNJ	--	--	--	13.6 BNJ	--	--	--
arsenic	7.8 N*J	7.9 N*J	7.6 Ns*J	31.1 N*J	10.7 Ns*J	11.1 Ns*J	9.1 N*J	11.4 N*J	9.1Ns*J
barium	174	125	132	124	76.5	167	94.9	97.3	116
beryllium	2.3	.98 B	1.4	1.1 B	1.5	2.3	1.7	1.4	1.4
cadmium	1.3	--	--	--	0.95 B	--	--	--	--
calcium	50,800 *J	51,800 *J	6,460 *J	11,800 *J	18,100*J	67,600 *J	20,700 *J	5,410 *J	25,700 *J
chromium	32	28.3	29.5	33.4	32.6	34.4	25.4	28.2	28.5
cobalt	13.2	12.7	7.8 B	12.1	11.4 B	12.4 B	15.2	12.3 B	10.3 B
copper	41.4	28.5	26.4	26.5	31.1	27	23.3	27.3	22.1
iron	36,900	29,600	22,500	31,300	29,400	29,300	45,400	34,000	28,600
lead	11.4 *J	21.3 s*J	23.6 s*J	29.2 *J	11 s*J	33.7 *J	15 *J	17.7 *J	25.8 s*J
magnesium	10,700	17,100	4,200	8,660	6,190	14,600	7,220	54,000	5,570
manganese	1,700 ~~17,000~~ n*J	418 N*J	189 N*J	389 N*J	569 N*J	2,830 N*J	755 N*J	279 N*J	416 N*J
nickel	34.3	37	29.2	53.5	39.7	33	33.7	42.1	26.8
potassium	3,380 *	5,730 *	3,320 *	3,910 *	4,660 *	3,980 *	3,490 *	3,610 *	3,790 *
selenium	1.7 NsJ	--	--	--	3.9 NsJ	1.9 NsJ	--	--	--
sodium	385 B	396 B	198 B	203 B	226 B	454 B	202 B	--	--
thallium	--	--	--	--	1.5 B	--	--	--	--
vanadium	56.8 *	50.6 *	49 *	47.9 *	113 *	50.5 *	48 *	46 *	39.6 *
zinc	233	74.5	62.1	122	107	95.6	98.9	104	94.1

-- Not detected.

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
s	Analysis by Method of Standard Additions.	Value is quantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
J		
B		

TABLE 4-1

RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SOIL SAMPLES FOR THE FMC SITE SSI

Kamesf 5-15-91

Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6	S7	S8	S9	10	11	12
Date	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91	02/28/91			
Time	1210	1230	1230	1310	1415	1445	1450	1505	1530			
~~Well Depth (feet)~~												
~~CRL Log Number~~												
CLP Organic Traffic Report Number	EMW72	EMW73	EMW74	EMW75	EMW76	EMW77	EMW78	EMW79	EMW80			
CLP Inorganic Traffic Report Number	MEMW58	MEMW59	MEMW60	MEMW61	MEMW62	MEMW63	MEMW64	MEMW65	MEMW66			
~~Temperature (°C)~~												
~~Specific Conductivity (µmhos/cm)~~												
~~pH~~												

Physical State*	Waste Characteristics*	Category***	SI Memo	Compound Detected (values in µg/L or µg/kg)	S1	S2	S3	S4	S5	S6	S7	S8	S9	10	11	12
				Volatile Organics												
Gas	A,D,G,I	OCC	HH	chloroethane												
Gas	A,D,G,I	OCC	HH	bromomethane												
Gas	A,D,G,I	OCC	HH	vinyl chloride												
Gas	A,D,G,I	OCC	HH	chloroethane												
Liquid	A,D,H,I	SOL	HH,CLA	methylene chloride	-	-	-	9J	25J	-	11J	12J	9J			
Liquid	E,H,I,A	SOL	K,CLA	acetone	130J	12J	-	-	-	-	-	-	-			
Liquid	A,H,I	SOL	SH	carbon disulfide	2J	-	-	-	-	-	-	-	14J			
Liquid	A,D,G,I	SOL	HH	1,1-dichloroethene												
Liquid	A,D,H,G	SOL	HH	1,1-dichloroethane												
Liquid	A,D,G	SOL	HH	1,2-dichloroethene (total)												
Liquid	A,D	SOL	HH	chloroform	-	-	2J	-	1J	-	-	-	-			
Liquid	A,D,G	SOL	HH	1,2-dichloroethane												
Liquid	A,E,G	SOL	K,CLA	2-butanone (MEK)												
Liquid	A,D	SOL	HH	1,1,1-trichloroethane	-	2J	-	-	-	-	-	-	-			
Liquid	A,D	SOL	HH	carbon tetrachloride												
Liquid	A,D,G	SOL	HYD	vinyl acetate												
Liquid	A,D	OCC	HH	bromodichloroethane												
Liquid	A,D,G	SOL	HH	1,2-dichloropropane												
Liquid	A,D,G	SOL	HH	cis-1,3-dichloropropene												
Liquid	A,D,G,B	SOL	HH	trichloroethene												
Liquid	A,D	OCC	HH	dibromochloromethane												
Liquid	A,D	SOL	HH	1,1,2-trichloroethane												
Liquid	A,G	SOL	A	benzene	2J	-	-	-	-	-	-	-	-			
Liquid	A,D,G	SOL	HH	trans-1,3-dichloropropene												
Liquid	A,D	SOL	HH,CLA	bromoform												
Liquid	A,E,G	SOL	K,CLA	4-methyl-2-pentanone												
Liquid	A,E,G	SOL	K	2-hexanone												
Liquid	A,D	SOL	HH	tetrachloroethene												
Liquid	A,G,E	SOL	A,CLA	toluene	3J	15J	-	-	7J	-	-	4J	-			
Liquid	A,D,E	SOL	HH	1,1,2,2-tetrachloroethane												
Liquid	A,D,G	SOL	HA	chlorobenzene												
Liquid	A,G	SOL	A	ethylbenzene	-	-	-	-	-	-	-	26J	-			
Liquid	A,D,G	OCC	A	styrene												
Liquid	A,G	SOL	A	xylenes (total)	-	-	-	-	12J	-	-	-	-			

Table 4 (Cont.)

Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters	Sample Number S1 72	S2 73	S3 74	S4	S5 76	S6	S7 78	S8	S9 80	10	11	12
				Semivolatile Organics												
S, thick L	A,B,E	OCC	P	phenol												
Liquid	A,D,B	OCC	NH	bis(2-chloroethyl)ether												
Liquid	A,D,B	OCC	P	2-chlorophenol												
Liquid	A,D,H	SOL	HA	1,3-dichlorobenzene												
Solid	A,D,H	OCC	HA	1,4-dichlorobenzene												
Liquid	A,D,H	SOL	A	benzyl alcohol												
Liquid	A,D,H	OCC	HA	1,2-dichlorobenzene												
Liquid	A,B	OCC	P	2-methylphenol												
	A,D	OCC	NH	bis(2-chloroisopropyl)ether												
Liquid	A,B	OCC	P	4-methylphenol												
	A	OCC	N-Amine	n-nitroso-di-n-dipropylamine												
Solid	A,D	OCC	NH	hexachloroethane												
Liquid	A,D	OCC	HA	nitrobenzene												
Liquid	A,D	OCC	N	isophorone												
Solid	A,D	OCC	P	2-nitrophenol												
Solid	A,B	OCC	P	2,4-dimethylphenol												
Solid	A	OCC	A	benzoic acid												
	A,D	OCC	NH	bis(2-chloroethoxy)methane												
Liquid	A,D	OCC	P	2,4-dichlorophenol												
Liquid	A,D	OCC	HA	1,2,4-trichlorobenzene												
Solid	A	OCC	PAH	naphthalene												
Solid	A,D	OCC	NH	4-chloroaniline												
Liquid	A,D,B	OCC	NH	hexachlorobutadiene												
Solid	A,D	OCC	P	4-chloro-3-methylphenol												
Liquid	A,D	OCC	PAH	2-methylnaphthalene	–	–	–	–	130 J	–	–	–	–			
Liquid	A,D,B	OCC	NH	hexachlorocyclopentadiene												
Solid	A,D	OCC	P	2,4,6-trichlorophenol												
Solid	A,D	OCC	P	2,4,5-trichlorophenol												
Liquid	A,D	OCC	PAH	2-chloronaphthalene												
Solid	A,D	OCC	NH	2-nitroaniline												
Liquid	A,D	OCC	PH,CLA	dimethylphthalate												
Solid	A,D	OCC	PAH	acenaphthylene												
Solid	A,D	OCC	HA	2,6-dinitrotoluene												
Solid	A,D	OCC	NH	3-nitroaniline												
Solid	A,D	OCC	PAH	acenaphthene												
Solid	A,D,G	OCC	P	2,4-dinitrophenol												
Solid	A,D	OCC	P	4-nitrophenol												
Solid	A,D	OCC	A	dibenzofuran												
Solid	A,D	OCC	HA	2,4-dinitrotoluene												
Liquid	A,D	OCC	PH	diethylphthalate												
	A,D	OCC	NH	4-chlorophenyl-phenylether												
Solid	A,D	OCC	PAH	fluorene												
Solid	A,D,E	OCC	NH	4-nitroaniline												
Solid	A,D	OCC	P	4,6-dinitro-2-methylphenol												
Solid	A,D	OCC	NH	n-nitrosodiphenylamine												
Liquid	A,D	OCC	NH	4-bromophenyl-phenylether												
Solid	A,D	OCC	HA	hexachlorobenzene												
Solid	A,D	OCC	P	pentachlorophenol												
Solid	A,D	OCC	PAH	phenanthrene	–	–	–	230 J	92 J	130 J	250 J	–	–			

Table 4- (Cont.)

Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters	S1 72	S2	S3 74	S4	S5 76	S6	S7 78	S8	S9 80	10	11	12
				Semivolatile Organics, Cont.												
Solid	A,D	OCC	PAH	anthracene												
Liquid	A,D	OCC	PH,CLA	di-n-butylphthalate												
Solid	A,D	OCC	PAH	fluoranthene	–	–	–	550 J	400 J	200 J	550 J	–	–			
Solid	A,D	OCC	PAH	pyrene	–	–	–	440 J	310 J	160 J	470 J	–	–			
Liquid	A,D	OCC	PH,CLA	butylbenzylphthalate												
	A,D	OCC	HA	3,3'-dichlorobenzidine												
Solid	A,D	OCC	PAH	benzo[a]anthracene	–	–	–	260 J	140 J	–	260 J	–	–			
Solid	A,D	OCC	PAH	chrysene	–	–	–	290 J	160 J	–	330 J	–	–			
Liquid	A,D	OCC	PH,CLA	bis(2-ethylhexyl)phthalate												
Liquid	A,D	OCC	PH,CLA	di-n-octylphthalate												
Solid	A,D	OCC	PAH	benzo[b]fluoranthene	–	–	–	210 J	110 J	–	240 J	–	89 J			
Solid	A,D	OCC	PAH	benzo[k]fluoranthene	–	–	–	340 J	120 J		230 J		100 J			
Solid	A,D,K,L	OCC	PAH	benzo[a]pyrene	–	–	–	240 J	91 J	–	200 J	–	–			
Solid	A,D	OCC	PAH	indeno[1,2,3-cd]pyrene	–	–	–	160 J	–	–	110 J	–	–			
Solid	A,D	OCC	PAH	dibenzo[a,h]anthracene												
Solid	A,D	OCC	PAH	benzo[g,h,i]perylene	–	–	–	170 J	–	–	100 J	–	–			
				Pesticides/PCBs												
Solid	A,D	PSD	PEST	alpha BHC												
Solid	A,D	PSD	PEST	beta BHC												
Solid	A,D	PSD	PEST	delta BHC												
Solid	A,D	PSD	PEST	gamma BHC (Lindane)												
Solid	A,D	PSD	PEST	Heptachlor												
Solid	A,D	PSD	PEST	Aldrin												
Solid	A,D	PSD	PEST	Heptachlor epoxide												
Solid	A,D	PSD	PEST	Endosulfan I												
Solid	A,D,E	PSD	PEST	Dieldrin												
Solid	A,D	PSD	PEST	4,4'-DDE	–	–	130 J	–	–	–	–	–	8.4 J			
Solid	A,D	PSD	PEST	Endrin												
Solid	A,D	PSD	PEST	Endosulfan II												
Solid	A,D	PSD	PEST	4,4'-DDD	–	–	59 J	–	–	–	–	–	25 J			
Solid	A,D	PSD	PEST	Endosulfan sulfate												
Solid	A,D	PSD	PEST	4,4'-DDT												
Solid	A,D	PSD	PEST	Methoxychlor (Mariate)												
Solid	A,D	PSD	PEST	Endrin ketone												
Solid	A,D	PSD	PEST	alpha Chlordane												
Solid	A,D	PSD	PEST	gamma Chlordane												
Solid	A,D	PSD	PEST	Toxaphene												
Liquid	A,D	OCC	PCB	Aroclor 1016												
Liquid	A,D	OCC	PCB	Aroclor 1221												
Liquid	A,D	OCC	PCB	Aroclor 1232												
Liquid	A,D	OCC	PCB	Aroclor 1242												
Liquid	A,D	OCC	PCB	Aroclor 1248												
Liquid	A,D	OCC	PCB	Aroclor 1254												
Liquid	A,D	OCC	PCB	Aroclor 1260												

MY 4/26/91

Table 4- (Cont.)

Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters	Sample Number S1 MEMW58	S2 MEMW59	S3 MEMW60	S4 MEMW61	S5 MEMW62	S6 MEMW63	S7 MEMW64	S8 MEMW65	S9 MEMW66	10	11	12
				Analyte Detected (values in mg/kg or µg/L)												
Solid	A,D	MES	CSC/CWC	aluminum	24300	19400	26800	21900	18300	24200	17600	19800	20500			
Solid	A,D	MES	HM	antimony	R	9.7BNJ	R	R	R	13.6BNJ	R	R	R			
Solid	A,D	MES	HM	arsenic	7.8N*J	7.9N*J	7.6NS*J	31.1N*J	10.7NS*J	11.1NS*J	9.1N*J	11.4N*J	9.1NS*J			
Solid	A,D	MES	CSC/CWC	barium	174	125	132	124	76.5	167	94.9	97.3	116			
Solid	A,D	MES	M	beryllium	2.3	0.98B	1.4	1.1B	1.5	2.3	1.7	1.4	1.4			
Solid	A,D	MES	HM	cadmium	1.3	–	–	–	0.95B	–	–	–	–			
Solid	D	MES	CSC/CWC	calcium	50800*J	51800*J	6460*J	11800*J	18100*J	67600*J	20700*J	5410*J	25700*J			
Solid	A,D	MES	HM	chromium	32.0	28.3	29.5	33.4	32.6	34.4	25.4	28.2	28.5			
Solid	A,D	MES	HM	cobalt	13.2	12.7	7.8B	12.1	11.4B	12.4B	15.2	12.3B	10.3B			
Solid	A,D	MES	HM	copper	41.4	28.5	26.4	26.5	31.1	27.0	23.3	27.3	22.1			
Solid	A,D	MES	HM,CSC,CWC	iron	36900	29600	22500	31300	29400	29300	45400	34000	28600			
Solid	A,D	MES	HM	lead	11.4*J	21.3S*J	23.6S*J	29.2*J	11.0S*J	33.7*J	15.0*J	17.7*J	25.8S*J			
Solid	A,D	MES	CSC/CWC	magnesium	10700	17100	4200	8660	6190	14600	7220	5400	5570			
Solid	A,D	MES	HM	manganese	1700N*J	418N*J	189N*J	389N*J	569N*J	2830N*J	755N*J	279N*J	416N*J			
Liquid	A,D	MES	HM	mercury												
Solid	A,D	MES	HM	nickel	34.3	37.0	29.2	53.5	39.7	33.0	33.7	42.1	26.8			
Solid	D	MES	CSC,CWC	potassium	3880*	5730*	3320*	3910*	4660*	3980*	3490*	3610*	3790*			
Solid	A,D	MES	M	selenium	1.7NSJ	–	–	–	3.9NSJ	1.9NSJ	–	–	–			
Solid	A,D	MES	HM	silver												
Solid	D	MES	CSC,CWC	sodium	385B	396B	198B	203B	226B	454B	202B	–	–			
Solid	A,D	MES	HM	thallium	–	–	–	–	1.5B	–	–	–	–			
Solid	A,D	MES	HM	vanadium	56.8*	50.6*	49.0*	47.9*	113*	50.5*	48.0*	46.4*	39.6*			
Solid	A,D	MES	CWL,CSC,HM	zinc	233	74.5	62.1	122	107	95.6	98.9	104	94.1			
Solid	A	IOC	IOC	cyanide												

— Not detected.

U	Indicates compound was analyzed for but not detected.	Compound was not detected at or above the CRQL.
J	Indicates an estimated value.	Compound value may be semiquantitative.
UJ	Quantitation limit is estimated due to a quality control (QC) protocol.	Compound was not detected if value is at CRQL, e.g., 10U UJ. If a value is reported with a UJ above CRQL and it is <5x blank concentration (10x for common laboratory artifacts), the compound is detected but may be a laboratory artifact and not attributable to the sample.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µL in the final extract shall be confirmed by GC/MS.	Compound was confirmed by GC/MS and is quantitative. Use pesticide/PCB listed value.
B	This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semiquantitative. There should be another analysis with a B qualifier, which is to be used.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL. Data is quantitative.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a laboratory artifact in the TICs only.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

ANALYTE QUALIFIERS		DEFINITION	INTERPRETATION
E	E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
S	S	Analysis by Method of Standard Additions.	Value is quantitative.
R	M	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
+	+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected at or above the CRDL.
	M	Duplicate injection precision not met.	Value may be semiquantitative.
	W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.
	R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

Source: Ecology and Environment, Inc. 1989.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	10	11	12
				Date	2/28/91	2/28/91	2/28/91	2/28/91	2/28/91	2/28/91	2/28/91	2/28/91	2/28/91			
				Time	1210	1230	1230	1310	1415	1445	1450	1505	1530			
				Well Depth (Feet)												
				CRL Log Number												
				CLP Organic Traffic Report Number	EMW72	EMW73	EMW74	EMW75	EMW76	EMW77	EMW78	EMW79	EMW80			
				CLP Inorganic Traffic Report Number	MEMW58	MEMW59	MEMW60	MEMW61	MEMW62	MEMW63	MEMW64	MEMW65	MEMW66			
				Temperature (°C)												
				Specific Conductivity (µmhos/cm)												
				pH												
				Compound Detected (values in µg/L or µg/kg)												
				Volatile Organics												
Gas	A,D,G,I	OCC	HH	chloromethane												
Gas	A,D,G,I	OCC	HH	bromomethane												
Gas	A,D,G,I	OCC	HH	vinyl chloride												
Gas	A,D,G,I	OCC	HH	chloroethane												
Liquid	A,D,H,I	SOL	HH,CLA	methylene chloride				9.0J	25.0J		11.0J	12.0J	9.0J			
Liquid	E,H,I,A	SOL	K,CLA	acetone	13.0J	12.0J										
Liquid	A,H,I	SOL	SH	carbon disulfide	2J								14.0J			
Liquid	A,D,G,I	SOL	HH	1,1-dichloroethene												
Liquid	A,D,H,G	SOL	HH	1,1-dichloroethane												
Liquid	A,D,G	SOL	HH	1,2-dichloroethene (total)												
Liquid	A,D	SOL	HH	chloroform			2J		1J							
Liquid	A,D,G	SOL	HH	1,2-dichloroethane												
Liquid	A,E,G	SOL	K,CLA	2-butanone (MEK)												
Liquid	A,D	SOL	HH	1,1,1-trichloroethane		2J										
Liquid	A,D	SOL	HH	carbon tetrachloride												
Liquid	A,D,G	SOL	HYD	vinyl acetate												
Liquid	A,D	OCC	HH	bromodichloromethane												
Liquid	A,D,G	SOL	HH	1,2-dichloropropane												
Liquid	A,D,G	SOL	HH	cis-1,3-dichloropropene												
Liquid	A,D,G,B	SOL	HH	trichloroethene												
Liquid	A,D	OCC	HH	dibromochloromethane												
Liquid	A,D	SOL	HH	1,1,2-trichloroethane												
Liquid	A,G	SOL	A	benzene	2J											
Liquid	A,D,G	SOL	HH	trans-1,3-dichloropropene												
Liquid	A,D	SOL	HH,CLA	bromoform												
Liquid	A,E,G	SOL	K,CLA	4-methyl-2-pentanone												
Liquid	A,E,G	SOL	K	2-hexanone												
Liquid	A,D	SOL	HH	tetrachloroethene												
Liquid	A,G,E	SOL	A,CLA	toluene	3J	15.0J			7.0J			4J				
Liquid	A,D,E	SOL	HH	1,1,2,2-tetrachloroethane												
Liquid	A,D,G	SOL	HA	chlorobenzene												
Liquid	A,G	SOL	A	ethylbenzene												
Liquid	A,D,G	OCC	A	styrene								26J				
Liquid	A,G	SOL	A	xylenes (total)					12.0J							

Table 4- (Cont.)

Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters	Sample Number S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	10	11	12
				Semivolatile Organics												
S, thick L	A,B,E	OCC	P	phenol												
Liquid	A,D,B	OCC	HH	bis(2-chloroethyl)ether												
Liquid	A,D,B	OCC	P	2-chlorophenol												
Liquid	A,D,H	SOL	HA	1,3-dichlorobenzene												
Solid	A,D,H	OCC	HA	1,4-dichlorobenzene												
Liquid	A,D,H	SOL	A	benzyl alcohol												
Liquid	A,D,H	OCC	HA	1,2-dichlorobenzene												
Liquid	A,B	OCC	P	2-methylphenol												
	A,D	OCC	HH	bis(2-chloroisopropyl)ether												
Liquid	A,B	OCC	P	4-methylphenol												
	A	OCC	H-Amine	n-nitroso-di-n-dipropylamine												
Solid	A,D	OCC	HH	hexachloroethane												
Liquid	A,D	OCC	NA	nitrobenzene												
Liquid	A,D	OCC	H	isophorone												
Solid	A,D	OCC	P	2-nitrophenol												
Solid	A,B	OCC	P	2,4-dimethylphenol												
Solid	A	OCC	A	benzoic acid												
	A,D	OCC	HH	bis(2-chloroethoxy)methane												
Liquid	A,D	OCC	P	2,4-dichlorophenol												
Liquid	A,D	OCC	HA	1,2,4-trichlorobenzene												
Solid	A	OCC	PAH	naphthalene												
Solid	A,D	OCC	HH	4-chloroaniline												
Liquid	A,D,B	OCC	HH	hexachlorobutadiene												
Solid	A,D	OCC	P	4-chloro-3-methylphenol												
Liquid	A,D	OCC	PAH	2-methylnaphthalene					130 J							
Liquid	A,D,B	OCC	HH	hexachlorocyclopentadiene												
Solid	A,D	OCC	P	2,4,6-trichlorophenol												
Solid	A,D	OCC	P	2,4,5-trichlorophenol												
Liquid	A,D	OCC	PAH	2-chloronaphthalene												
Solid	A,D	OCC	NH	2-nitroaniline												
Liquid	A,D	OCC	PH,CLA	dimethylphthalate												
Solid	A,D	OCC	PAH	acenaphthylene												
Solid	A,D	OCC	NA	2,6-dinitrotoluene												
Solid	A,D	OCC	NH	3-nitroaniline												
Solid	A,D	OCC	PAH	acenaphthene												
Solid	A,D,G	OCC	P	2,4-dinitrophenol												
Solid	A,D	OCC	P	4-nitrophenol												
Solid	A,D	OCC	A	dibenzofuran												
Solid	A,D	OCC	NA	2,4-dinitrotoluene												
Liquid	A,D	OCC	PH	diethylphthalate												
	A,D	OCC	HH	4-chlorophenyl-phenylether												
Solid	A,D	OCC	PAH	fluorene												
Solid	A,D,E	OCC	NH	4-nitroaniline												
Solid	A,D	OCC	P	4,6-dinitro-2-methylphenol												
Solid	A,D	OCC	NH	n-nitrosodiphenylamine												
Liquid	A,D	OCC	HH	4-bromophenyl-phenylether												
Solid	A,D	OCC	HA	hexachlorobenzene												
Solid	A,D	OCC	P	pentachlorophenol												
Solid	A,D	OCC	PAH	phenanthrene				230 J	92 J	130 J	250 J					

Table 4- (Cont.)

Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters	Sample Number S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	10	11	12
				Semivolatile Organics, Cont.												
Solid	A,D	OCC	PAH	anthracene												
Liquid	A,D	OCC	PH,CLA	di-n-butylphthalate												
Solid	A,D	OCC	PAH	fluoranthene				550 J	400 J	200 J	550 J					
Solid	A,D	OCC	PAH	pyrene				440 J	310 J	160 J	470 J					
Liquid	A,D	OCC	PH,CLA	butylbenzylphthalate												
	A,D	OCC	HA	3,3'-dichlorobenzidine												
Solid	A,D	OCC	PAH	benzo[a]anthracene				260 J	140 J		260 J					
Solid	A,D	OCC	PAH	chrysene				290 J	160 J		330 J					
Liquid	A,D	OCC	PH,CLA	bis(2-ethylhexyl)phthalate												
Liquid	A,D	OCC	PH,CLA	di-n-octylphthalate												
Solid	A,D	OCC	PAH	benzo[b]fluoranthene				210 J	110 J		290 J		87 J			
Solid	A,D	OCC	PAH	benzo[k]fluoranthene				340 J	120 J		230 J		100 J			
Solid	A,D,K,L	OCC	PAH	benzo[a]pyrene				240 J	91 J		200 J					
Solid	A,D	OCC	PAH	indeno[1,2,3-cd]pyrene				160 J			110 J					
Solid	A,D	OCC	PAH	dibenzo[a,h]anthracene												
Solid	A,D	OCC	PAH	benzo[g,h,i]perylene				170 J			100 J					
				Pesticides/PCBs (µg/kg)												
Solid	A,D	PSD	PEST	alpha BHC												
Solid	A,D	PSD	PEST	beta BHC												
Solid	A,D	PSD	PEST	delta BHC												
Solid	A,D	PSD	PEST	gamma BHC (Lindane)												
Solid	A,D	PSD	PEST	Heptachlor												
Solid	A,D	PSD	PEST	Aldrin												
Solid	A,D	PSD	PEST	Heptachlor epoxide												
Solid	A,D	PSD	PEST	Endosulfan I												
Solid	A,D,E	PSD	PEST	Dieldrin												
Solid	A,D	PSD	PEST	4,4'-DDE			130						8.4 J			
Solid	A,D	PSD	PEST	Endrin												
Solid	A,D	PSD	PEST	Endosulfan II												
Solid	A,D	PSD	PEST	4,4'-DDD			59						25 J			
Solid	A,D	PSD	PEST	Endosulfan sulfate												
Solid	A,D	PSD	PEST	4,4'-DDT												
Solid	A,D	PSD	PEST	Methoxychlor (Mariate)												
Solid	A,D	PSD	PEST	Endrin ketone												
Solid	A,D	PSD	PEST	alpha Chlordane												
Solid	A,D	PSD	PEST	gamma Chlordane												
Solid	A,D	PSD	PEST	Toxaphene												
Liquid	A,D	OCC	PCB	Aroclor 1016												
Liquid	A,D	OCC	PCB	Aroclor 1221												
Liquid	A,D	OCC	PCB	Aroclor 1232												
Liquid	A,D	OCC	PCB	Aroclor 1242												
Liquid	A,D	OCC	PCB	Aroclor 1248												
Liquid	A,D	OCC	PCB	Aroclor 1254												
Liquid	A,D	OCC	PCB	Aroclor 1260												

Table 4- (Cont.)

Physical State*	Waste Characteristics**	Category***	SI Memo	Sample Collection Information and Parameters	Sample Number S1	S2	S3	S4	S5	S6	S7	S8	S9	10	11	12
				Analyte Detected (values in mg/kg or µg/L)												
Solid	A,D	MES	CSC/CWC	aluminum	24300	19400	26800	21900	18300	24200	17600	19800	20500			
Solid	A,D	MES	HM	antimony		9.7BNJ				13.6BNJ						
Solid	A,D	MES	HM	arsenic	7.8N*J	7.9N*J	7.6NS*J	31.1N*J	10.7NS*J	~~11.1NS*J~~	9.1N*J	11.4N*J	9.1NS*J			
Solid	A,D	MES	CSC/CWC	barium	174	125.0	132.0	124.0	76.5	167.0	94.9	97.3	116			
Solid	A,D	MES	M	beryllium	2.3	0.98 B	1.4	1.1 B	1.5	2.3	1.7	1.4	1.4			
Solid	A,D	MES	HM	cadmium	1.3				0.95 B							
Solid	D	MES	CSC/CWC	calcium	50,800*J	51800*J	6460*J	11,800*J	18100*J	67600*J	20700*J	5410*J	25700*J			
Solid	A,D	MES	HM	chromium	32.0	28.3	29.5	33.4	32.6	34.4	25.4	28.2	28.5			
Solid	A,D	MES	HM	cobalt	13.2	12.7	7.8 B	12.1	11.4 B	12.4 B	15.2	12.3 B	10.3 B			
Solid	A,D	MES	HM	copper	41.4	28.5	26.4	26.5	31.1	27.0	23.3	27.3	22.1			
Solid	A,D	MES	HM,CSC;CWC	iron	36,700	29600	22500	31300	29400	29300	45400	34000	28600			
Solid	A,D	MES	HM	lead	11.4*J	21.3S*J	23.6S*J	29.2*J	17S*J	33.7*J	15.0*J	17.7*J	25.8S*J			
Solid	A,D	MES	CSC/CWC	magnesium	10,700	17100	4200	8660	6190	14600	7220	5400	5570			
Solid	A,D	MES	HM	manganese	1700N*J	418.0N*J	189N*J	389N*J	569N*J	2830N*J	755N*J	279N*J	416N*J			
Liquid	A,D	MES	HM	mercury												
Solid	A,D	MES	HM	nickel	34.3	37.0	29.2	53.5	39.7	33.0	33.7	42.1	26.8			
Solid	D	MES	CSC,CWC	potassium	3880*	5730*	3320*	3910*	4660*	3980*	3490*	3610*	3790*			
Solid	A,D	MES	M	selenium	1.7NSJ				3.9NSJ	1.9NSJ						
Solid	A,D	MES	HM	silver												
Solid	D	MES	CSC,CWC	sodium	385B	396B	198B	203B	226B	454B	202B					
Solid	A,D	MES	HM	thallium					1.5B							
Solid	A,D	MES	HM	vanadium	56.8*	50.6*	49.*	47.9*	113*	50.5*	48*	46*	39.6*			
Solid	A,D	MES	CWL,CSC,HM	zinc	233	74.5	62.1	122	107	95.6	98.9	104	94.1			
Solid	A	IOC	IOC	cyanide												

-- Not detected.

Table 4- (Cont.)

COMPOUND QUALIFIERS	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected at or above the CRDL.
J	Indicates an estimated value.	Compound value may be semiquantitative.
UJ	Quantitation limit is estimated due to a quality control (QC) protocol.	Compound was not detected if value is at CRQL, e.g., 10U UJ. If a value is reported with a UJ above CRQL and it is <5x blank concentration (10x for common laboratory artifacts), the compound is detected but may be a laboratory artifact and not attributable to the sample.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/µL in the final extract shall be confirmed by GC/MS.	Compound was confirmed by GC/MS and is quantitative. Use pesticide/PCB listed value.
B	This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semiquantitative. There should be another analysis with a D qualifier, which is to be used.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL. Data is quantitative.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a laboratory artifact in the TICs only.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.
X	Cannot be confirmed by CLP protocols.	Compound may or may not be present.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
S S	Analysis by Method of Standard Additions.	Value is quantitative.
R N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
* *	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
+ +	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ] B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ	DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
U U	Compound was analyzed for but not detected.	Compound was not detected at or above the CRDL.
M	Duplicate injection precision not met.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.
R	Results are unusable due to a major violation of QC protocols.	Analyte value is not usable.

Source: Ecology and Environment, Inc. 1989.

Sample Collection Information and Parameters	Sample Number											
	S 1	S 2	S 3	S 4	S 5	S 6	S 7	S 8	S 9	10	11	12
TICs†												
(1120-21-4) Undecane	600J											
(629-50-5) Tri-decane	600J											
(106-97-8) Butane		2000J										
(10544-50-0) Sulphur					900J							
( )												
( )												
( )												
( )												
( )												
( )												
( )												
( )												
( )												
( )												
( )												
( )												
( )												
( )												

† TIC Chemical Abstracts Service (CAS) numbers, if available, are provided in parentheses.

040 020 026 669

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

October 24, 1990

Kenneth G. Pearce, MPH
9880 S. Murray Ridge Road
Elyria, OH 44035-6999

Re: Notice of Intrusive Sampling

Dear Mr. Pearce,

The purpose of this letter is to notify you that Ecology and Environment, Inc. plans to perform intrusive sampling at the Ford Motor Company site, located at 650 Miller Road, Avon Lake, Ohio. Ecology and Environment, Inc., has been retained by the U.S. Environmental Protection Agency (U.S. EPA) under contract 68-01-7347 and is performing this sampling as part of the site inspection under the Superfund Program.

Pursuant to Ohio Revised Code Section 3734.02(H) and Ohio Administrative Code 3745-27-13, U.S. EPA has submitted a request for anticipation of the Director of the Ohio Environmental Protection Agency to perform this intrusive sampling. This notice is required by Ohio Administrative Code Section 3745-27-13(c)(5).

Robert Kurzeja

Robert Kurzeja
Ohio State Coordinator, E & E

5849:9

recycled paper

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

October 24, 1990

Richard W. Hausrod, Mayor
City of Avon Lake
150 Avon Belden Road
Avon Lake, OH 44012

Re: Notice of Intrusive Sampling

Dear Mayor Hausrod,

The purpose of this letter is to notify you that Ecology and Environment, Inc. plans to perform intrusive sampling at the Ford Motor Company site, located at 650 Miller Road, Avon Lake, Ohio. Ecology and Environment, Inc., has been retained by the U.S. Environmental Protection Agency (U.S. EPA) under contract 68-01-7347 and is performing this sampling as part of the site inspection under the Superfund Program.

Pursuant to Ohio Revised Code Section 3734.02(H) and Ohio Administrative Code 3745-27-13, U.S. EPA has submitted a request for anticipation of the Director of the Ohio Environmental Protection Agency to perform this intrusive sampling. This notice is required by Ohio Administrative Code Section 3745-27-13(c)(5).

Robert Kurzeja
Ohio State Coordinator, E & E

5849:9

recycled paper

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9475

International Specialists in the Environment

October 24, 1990

County Commissioner(s)
226 Middle Avenue
Elyria, OH 44035

Re: Notice of Intrusive Sampling

Dear Sir,

The purpose of this letter is to notify you that Ecology and Environment, Inc. plans to perform intrusive sampling at the Ford Motor Company site, located at 650 Miller Road, Avon Lake, Ohio. Ecology and Environment, Inc., has been retained by the U.S. Environmental Protection Agency (U.S. EPA) under contract 68-01-7347 and is performing this sampling as part of the site inspection under the Superfund Program.

Pursuant to Ohio Revised Code Section 3734.02(H) and Ohio Administrative Code 3745-27-13, U.S. EPA has submitted a request for anticipation of the Director of the Ohio Environmental Protection Agency to perform this intrusive sampling. This notice is required by Ohio Administrative Code Section 3745-27-13(c)(5).

Robert Kurzeja
Ohio State Coordinator, E & E

5849:9

recycled paper

memo # 3

Ford Motor Co. / Joseph
#15964

(1). Forgot time on ITR S9.
What is it?

- Cross off "dissolved", and initial in column (D) on ITR, to read "Total metals."

Please submit typewritten memo for # 1. Otherwise, good job.

A. Davis

MEMORANDUM

March 8, 1991

To: Andrea Davis

From: Mathew Joseph, CCJM MJ 3/8/91

Ref: <u>Ford Motor Company, Ohio Truck Plant, Case # 15964, Sample Paper Work</u>

Sample collection time on ITR for S9 should read as 1530.

RECEIPT FOR SAMPLES

U.S. EPA, 230 S. Dearborn St., Chicago, IL 60604

U. S. EPA ID NO OHD020 626 669

PROJ. ACCT. NO. F0H0646SA

TDD F05-9007-012

SPLIT SAMPLES ACCEPTED(X) DECLINED( )

FACILITY/OCCUPANT NAME: FORD MOTOR COMPANY, OHIO TRUCK PLANT

FACILITY/OCCUPANT ADDRESS: 650 MILLER ROAD AVON LAKE, OHIO 44012

SAMPLE NUMBER	DATE	TIME	SPLIT SAMPLES (✓)	OTR#	ITR#	DESCRIPTION OF SAMPLE LOCATIONS	SEMIVOLATILES	PESTICIDES/PCBS	VOLATILES	METALS	CYANIDE			MATRIX
Em S1	2/28/91	1210	✓	EMW71	MEMW58	S1	✓	✓	✓	✓	✓			Soil
S2	2/28/91	1230	✓	EMW72	MEMW59	S2	✓	✓	✓	✓	✓			Soil
S3	2/28/91	1230	✓	EMW73	MEMW60	S3	✓	✓	✓	✓	✓			Soil
S4	2/28/91	1310	✓	EMW74	MEMW61	S4	✓	✓	✓	✓	✓			Soil
S5	2/28/91	1415	✓	EMW75	MEMW62	S5	✓	✓	✓	✓	✓			Soil
S6	2/28/91	1445	✓	EMW76	MEMW63	S6	✓	✓	✓	✓	✓			Soil
S7	2/28/91	1450	✓	EMW77	MEMW64	S7	✓	✓	✓	✓	✓			Soil
S9	2/28/91	1530	✓	EMW78	MEMW66	S9	✓	✓	✓	✓	✓			Soil
S8	2/28/91	1505	✓	EMW79	MEMW65	S8	✓	✓	✓	✓	✓			Soil

TRANSFERRED BY: Nahid Imam 2/28/91 4:12
(Signature) (Date) (Time)

RECEIVED BY: [signature] 2/28/91 4:17 PM
(Signature) (Date) (Time)

DISTRIBUTION
WHITE: FIT SITE FILE
YELLOW: FACILITY/OCCUPANT
GREEN: FIT SAMPLE MANAGEMENT
PINK: U.S. EPA

TITLE: MANAGER
TELEPHONE: 216-933-1347

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S1

SAMPLING DATE 2/28/91 SAMPLING TIME 1210

ORGANIC TRAFFIC NUMBER EMW 72

INORGANIC TRAFFIC NUMBER MEMW 58

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164351	W027 8013
120mL	VOA	5-164352	W027 8013
8 OZ	Extractable	5-164353	0212053
8 OZ	Metals / CN^-	5-164354	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio truck plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S2

SAMPLING DATE 2/28/91 SAMPLING TIME 1230

ORGANIC TRAFFIC NUMBER EMW 73

INORGANIC TRAFFIC NUMBER MEMW 59

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164355	W0278013
120mL	VOA	5-164356	W0278013
8 OZ	Extractable	5-164357	0212053
8 OZ	Metals / CN^-	5-164358	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S3

SAMPLING DATE 2/28/91 SAMPLING TIME 1230

ORGANIC TRAFFIC NUMBER EMW 74

INORGANIC TRAFFIC NUMBER MEMW 60

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164359	W0278013
120mL	VOA	5-164360	W0278013
8 OZ	Extractable	5-164361	0212053
8 OZ	Metals/ CN^-	5-164362	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio truck plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S4

SAMPLING DATE 2/28/91 SAMPLING TIME 1310

ORGANIC TRAFFIC NUMBER EMW 75

INORGANIC TRAFFIC NUMBER MEMW 61

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164363	W0278013
120mL	VOA	5-164364	W0278013
8 OZ	Extractable	5-164365	0212053
8 OZ	Metals / CN^-	5-164366	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S5

SAMPLING DATE 2/28/91 SAMPLING TIME 1415

ORGANIC TRAFFIC NUMBER EMW 76

INORGANIC TRAFFIC NUMBER MEMW 62

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164367	W0278013
120mL	VOA	5-164368	W0278013
8 OZ	Extractable	5-164369	0212053
8 OZ	Metals / CN^-	5-164370	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S6

SAMPLING DATE 2/28/91 SAMPLING TIME 1445

ORGANIC TRAFFIC NUMBER EMW 77

INORGANIC TRAFFIC NUMBER MEMW 63

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164371	W027 8013
120mL	VOA	5-164372	W027 8013
8 OZ	Extractable	5-164373	0212053
8 OZ	Metals / CN^-	5-164374	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S7

SAMPLING DATE 2/28/91 SAMPLING TIME 1450

ORGANIC TRAFFIC NUMBER EMW 78

INORGANIC TRAFFIC NUMBER MEMW 64

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164375	W0278013
120mL	VOA	5-164376	W0278013
8 OZ	Extractable	5-164377	0212053
8 OZ	Metals/ CN^-	5-164378	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S 8

SAMPLING DATE 2/28/91 SAMPLING TIME 1505

ORGANIC TRAFFIC NUMBER EMW 79

INORGANIC TRAFFIC NUMBER MEMW 65

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164379	W0278013
120mL	VOA	5-164380	W0278013
8 OZ	Extractable	5-164381	0212053
8 OZ	Metals / CN^-	5-164382	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio truck plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S9

SAMPLING DATE 2/28/91 SAMPLING TIME 1530

ORGANIC TRAFFIC NUMBER E MW 80

INORGANIC TRAFFIC NUMBER ME MW 64

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164383	W0278013
120mL	VOA	5-164384	W0278013
8 OZ	Extractable	5-164385	0212053
8 OZ	Metals / CN⁻	5-164386	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

FOH06466SA

SAMPLER CHECKLIST

ALL LOW CONCENTRATION SAMPLES

Site Name FORD MOTOR COMPANY, OHIO TRUCK PLANT

All the below procedures have been followed and all coolers properly packaged for shipment.

Matthew Joseph
Sampler Signature

Michael Brown
Team Leader Signature

✓ 1. Is date shipped filled in on the OTR/ITR?

✓ 2. Is date and time of sample collection (Letter "F) filled in on the OTR/ITR?

✓ 3. Has either Shipment Complete or Shipment Not Complete been marked on the OTR/ITR?

✓ 4. On the C.O.C. form, is PAN in project no.; TDD/Case/SAS (if applicable) in project name for CLP and site name/case for CRL?

✓ 5. Are all dates and times on the C.O.C. form?

✓ 6. Has either grab or composite sample been marked on the C.O.C.?

✓ 7. Is the matrix filled out on each line of the C.O.C. form? (i.e., Soil, Water, Drinking Water) DO NOT USE ARROWS.

✓ 8. Is the Cooler # written on top of the C.O.C. form?

✓ 9. Is it referenced on the C.O.C.s which cooler # the OTR/ITR or the CRL tracking forms are in?

✓ 10. Are relinquish date, time, and signature on the bottom of the C.O.C.?

✓ 11. Is there one C.O.C. per cooler?

✓ 12. Has the proper paperwork been put in a plastic bag and taped to the inside of the cooler lid?

- o C.O.C. - Send white copy, bring back pink and yellow.
- o OTR/ITR - Send white and yellow copies and bring back blue/green and pink.
- o CRL tracking forms - send all of them.

SA002(04/18/90)

✓ 13. Is sample number, date, and time of collection permanently labeled on each sample bottle?

✓ 14. Are samples packaged in such a way to prevent breakage?

✓ 15. Have photographs been taken of each cooler showing ice, custody seals, and paperwork?

✓ 16. Are the coolers acceptable at Fed Ex?

- o Condition
- o Drain plug taped
- o Correctly labeled with address stickers

✓ 17. Are you sending the coolers to the correct lab? Are you using the correct lab acronym?

✓ 18. Did you call the SMC <u>before 10:00 a.m.</u> on the day after the sample shipment?

ONLY APPLIES TO WATERS

_____ 1. On the OTR/ITR forms, is the Sample Blank marked rinsate (4) in sample description (Letter "A").

_____ 2. For monitoring wells, has it been stated on the bottom of the inorganic C.O.C. whether the metals were filtered or not?

_____ 3. On the OTR/ITR forms, "blank" should be written under special handling (Letter "D") and on OTR, MSD should be marked in the same location.

_____ 4. Have the preservatives been written on the C.O.C. next to the bottle volume?

HNO_3 for Metals	$K_2Cr_2O_7$, $+HNO_3$ for Hg
NaOH for CN	HCL for VOA

_____ 5. Are sample water levels marked with a grease pencil on all sample bottles except for VOA?

FIT SAMPLE PROPOSAL FORM REGION V

DATE FORM COMPLETED 12/17/90 PAN# PO 40646SA DOA# F059007012 EPA I.D.# OHD020626669

SITE NAME (PRINT) Ford Motor Co. - Ohio Truck Plant CITY Avon Lake STATE Ohio

TEAM LEADER Nikki Brown SAMPLER Mathew Joseph DATE SENT TO ASCC

CASE # 15964 DRINKING WATER SAS # ORGANIC INORGANIC

ROUTINE ANALYTICAL SERVICES (RAS)

LOW WATERS FRACTION	MONITORING WELLS NUMBER OF FIELD SAMPLES+ BLANKS+ DUPLICATE= TOTAL	EXPECTED DATE TO SAMPLE	LABORATORY NAME	NUMBER OF COOLERS SHIPPED	NUMBER OF SAMPLES SHIPPED	AIR BILL NUMBERS	DATE SHIPPED TO LAB
VOA							
ABNs							
PEST/PCB							
METALS							
CN							

LOW WATERS FRACTION	SURFACE WATERS NUMBER OF FIELD SAMPLES+ BLANKS+ DUPLICATE= TOTAL	EXPECTED DATE TO SAMPLE	LABORATORY NAME	NUMBER OF COOLERS SHIPPED	NUMBER OF SAMPLES SHIPPED	AIR BILL NUMBERS	DATE SHIPPED TO LAB
VOA							
ABNs							
PEST/PCB							
METALS							
CN							

LOW FRACTION	SOILS/SEDIMENTS SLUDGES NUMBER OF FIELD SAMPLES+ BLANKS+ DUPLICATE= TOTAL	EXPECTED DATE TO SAMPLE	LABORATORY NAME	NUMBER OF COOLERS SHIPPED	NUMBER OF SAMPLES SHIPPED	AIR BILL NUMBERS	DATE SHIPPED TO LAB
VOA							
ABNs	8 + 0 + 0 = 8	week of Feb 25th	NET	1	9	7566916696	2/28/91
PEST/PCB							
METALS							
CN			DATACHEM	1		6028046754	91

7

RESIDENTIAL/MUNICIPAL WELL WATERS (DRINKING WATER SAMPLES)

LOW DETECTION LIMIT/FAST TURN AROUND

FRACTION	NUMBER OF FIELD SAMPLES+ BLANKS+ DUPLICATE= TOTAL	EXPECTED DATE TO SAMPLE	LABORATORY NAME	NUMBER OF COOLERS SHIPPED	NUMBER OF SAMPLES SHIPPED	AIR BILL NUMBERS	DATE SHIPPED TO LAB
VOA							
ABNs							
PEST/PCB							
METALS							
CN							

(2/28/91)

! _____ SEE NEXT PAGE FOR SPECIAL ANALYTICAL SERVICE REQUEST FOR THIS SITE

SAS # _____ Confirmed ✓

Late Request Submitted 2/11/91

Complete

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

Site Name: Ford Motor Co. Ohio Truck Plant

~~E&E Staff~~ CAM: Nabid Brown

PRP Contact	Date Contacted	Package Sent	Date For Inspection
Name: Anne Molnar Title: Env. Eng. Firm: Ford Motor Co. Phone No. (216) 933-1332	10/17/90	—	Nov. 12, 1990

Additional Comments:

Call Andrea before 10 a.m.

SAMPLER CHECKLIST

ALL LOW CONCENTRATION SAMPLES

Site Name FORD MOTOR COMPANY, OHIO TRUCK PLANT

All the below procedures have been followed and all coolers properly packaged for shipment.

Matthew Joseph
Sampler Signature

Rashid Brown
Team Leader Signature

✓ 1. Is date shipped filled in on the OTR/ITR?

✓ 2. Is date and time of sample collection (Letter "F) filled in on the OTR/ITR?

✓ 3. Has either Shipment Complete or Shipment Not Complete been marked on the OTR/ITR?

✓ 4. On the C.O.C. form, is PAN in project no.; TDD/Case/SAS (if applicable) in project name for CLP and site name/case for CRL?

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✓ 6. Has either grab or composite sample been marked on the C.O.C.?

✓ 7. Is the matrix filled out on each line of the C.O.C. form? (i.e., Soil, Water, Drinking Water) DO NOT USE ARROWS.

✓ 8. Is the Cooler # written on top of the C.O.C. form?

✓ 9. Is it referenced on the C.O.C.s which cooler # the OTR/ITR or the CRL tracking forms are in?

✓ 10. Are relinquish date, time, and signature on the bottom of the C.O.C.?

✓ 11. Is there one C.O.C. per cooler?

✓ 12. Has the proper paperwork been put in a plastic bag and taped to the inside of the cooler lid?

- o C.O.C. - Send white copy, bring back pink and yellow.
- o OTR/ITR - Send white and yellow copies and bring back blue/green and pink.
- o CRL tracking forms - send all of them.

SA002(04/18/90)

✓ 13. Is sample number, date, and time of collection permanently labeled on each sample bottle?

✓ 14. Are samples packaged in such a way to prevent breakage?

✓ 15. Have photographs been taken of each cooler showing ice, custody seals, and paperwork?

✓ 16. Are the coolers acceptable at Fed Ex?

- o Condition
- o Drain plug taped
- o Correctly labeled with address stickers

✓ 17. Are you sending the coolers to the correct lab? Are you using the correct lab acronym?

✓ 18. Did you call the SMC <u>before 10:00 a.m.</u> on the day after the sample shipment?

ONLY APPLIES TO WATERS

_____ 1. On the OTR/ITR forms, is the Sample Blank marked rinsate (4) in sample description (Letter "A").

_____ 2. For monitoring wells, has it been stated on the bottom of the inorganic C.O.C. whether the metals were filtered or not?

_____ 3. On the OTR/ITR forms, "blank" should be written under special handling (Letter "D") and on OTR, MSD should be marked in the same location.

_____ 4. Have the preservatives been written on the C.O.C. next to the bottle volume?

HNO_3 for Metals	$K_2Cr_2O_7$, $+HNO_3$ for Hg
NaOH for CN	HCL for VOA

_____ 5. Are sample water levels marked with a grease pencil on all sample bottles except for VOA?

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S1

SAMPLING DATE 2/28/91 SAMPLING TIME 1210

ORGANIC TRAFFIC NUMBER EMW 72

INORGANIC TRAFFIC NUMBER MEMW 58

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164351	W0278013
120mL	VOA	5-164352	W0278013
8 OZ	Extractable	5-164353	0212053
8 OZ	Metals / CN⁻	5-164354	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S2

SAMPLING DATE 2/28/91 SAMPLING TIME 1230

ORGANIC TRAFFIC NUMBER E MW 73

INORGANIC TRAFFIC NUMBER ME MW 59

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164355	W0278013
120mL	VOA	5-164356	W0278013
8 OZ	Extractable	5-164357	0212053
8 OZ	Metals / CN^-	5-164358	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S3

SAMPLING DATE 2/28/91 SAMPLING TIME 1230

ORGANIC TRAFFIC NUMBER EMW 74

INORGANIC TRAFFIC NUMBER MEMW 60

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164359	W0278013
120mL	VOA	5-164360	W0278013
8 OZ	Extractable	5-164361	0212053
8 OZ	Metals/ CN^-	5-164362	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S4

SAMPLING DATE 2/28/91 SAMPLING TIME 1310

ORGANIC TRAFFIC NUMBER EMW 75

INORGANIC TRAFFIC NUMBER MEMW 61

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164363	W0278013
120mL	VOA	5-164364	W0278013
8 OZ	Extractable	5-164365	0212053
8 OZ	Metals/ CN^-	5-164366	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S5

SAMPLING DATE 2/28/91 SAMPLING TIME 1415

ORGANIC TRAFFIC NUMBER EMW 76

INORGANIC TRAFFIC NUMBER MEMW 62

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164367	W0278013
120mL	VOA	5-164368	W0278013
8 OZ	Extractable	5-164369	0212053
8 OZ	Metals / CN^-	5-164370	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S6

SAMPLING DATE 2/28/91 SAMPLING TIME 1445

ORGANIC TRAFFIC NUMBER EMW 77

INORGANIC TRAFFIC NUMBER MEMW 63

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164371	W027 8013
120mL	VOA	5-164372	W027 8013
8 OZ	Extractable	5-164373	0212053
8 OZ	Metals / CN^-	5-164374	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S7

SAMPLING DATE 2/28/91 SAMPLING TIME 1450

ORGANIC TRAFFIC NUMBER E MW 78

INORGANIC TRAFFIC NUMBER ME MW 64

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164375	W0278013
120mL	VOA	5-164376	W0278013
8 OZ	Extractable	5-164377	0212053
8 OZ	Metals / CN^-	5-164378	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck Plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S 8

SAMPLING DATE 2/28/91 SAMPLING TIME 1505

ORGANIC TRAFFIC NUMBER EMW 79

INORGANIC TRAFFIC NUMBER MEMW 65

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164379	W0278013
120mL	VOA	5-164380	W0278013
8 OZ	Extractable	5-164381	0212053
8 OZ	Metals/ CN^-	5-164382	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

SAMPLE DESCRIPTION

SITE NAME/TDD# Ford Motor Co. - Ohio Truck plant / F05-9005-003

CASE NUMBER 15964

SAMPLE #/STATION LOCATION S9

SAMPLING DATE 2/28/91 SAMPLING TIME 1530

ORGANIC TRAFFIC NUMBER EMW 80

INORGANIC TRAFFIC NUMBER MEMW 64

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
120mL	VOA	5-164383	W0278013
120mL	VOA	5-164384	W0278013
8 OZ	Extractable	5-164385	0212053
8 OZ	Metals / CN⁻	5-164386	0212053

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: brown clay

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS None

pH NA

CONDUCTIVITY NA

TEMPERATURE NA

FEDERAL EXPRESS

USE THIS AIRBILL FOR DOMESTIC SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON-U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

TRACKING NUMBER

6028046754

SENDER'S COPY

SENDER'S COPY

Sender's Federal Express Account Number: 1270-9910-3

Date: 2-28-91

1 From (Your Name) Please Print: MATHEW JOSEPH

Your Phone Number (Very Important): (312) 621-3149

Department/Floor No.

Company: ECOLOGY AND ENVIRONMENT

Street Address: 6534 NORTHWEST HIGHWAY

City: CHICAGO State: IL ZIP Required: 60646

2 To (Recipient's Name) Please Print: LEE HARRIS

Recipient's Phone Number (Very Important): (801) 266-7700

Department/Floor No.

Company: DATACHEM, INC.

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes): 960 W. LEDDY DRIVE

City: SALT LAKE CITY State: UT ZIP Required: 84123

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.): CC6964-CHRG(SAMPT1305

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address:
City State ZIP Required

3 PAYMENT 1 [X] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card
5 [ ] Cash Expiration Date ___/___

4 SERVICES (Check only one box)

Priority Overnight Service (Delivery by next business morning†)
11 [X] YOUR PACKAGING
16 [ ] FEDEX LETTER *
12 [ ] FEDEX PAK *
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight Service (Delivery by next business afternoon†)
51 [ ]
58 [ ] FEDEX LETTER *
52 [ ] FEDEX PAK *
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Service (formerly Standard Air) (Delivery by second business day†)
30 [ ] ECONOMY SERVICE

Heavyweight Service (for Extra Large or any package over 150 lbs.)
70 [ ] HEAVYWEIGHT **
80 [ ] DEFERRED HEAVYWEIGHT **

† Delivery commitment may be later in some areas.
* Declared Value Limit $100.
** Call for delivery schedule.

DELIVERY AND SPECIAL HANDLING
1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [X] DELIVER WEEKDAY
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
4 [ ] DANGEROUS GOODS (Extra charge) (CSS not available for Dangerous Goods Shipments)
5 [ ] CONSTANT SURVEILLANCE SVC. (CSS) (Extra charge) (Release Signature Not Applicable)
6 [ ] DRY ICE ____ Lbs.
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK-UP (Extra charge)
10 [ ]
11 [ ] DESCRIPTION
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

PACKAGES	WEIGHT (In Pounds Only)	YOUR DECLARED VALUE (See right)	OVER SIZE
Total	Total	Total	

DIM SHIPMENT (Heavyweight Services Only) [ ] ____ lbs.

Received At
1 [ ] Regular Stop 3 [ ] Drop Box
2 [ ] On-Call Stop 4 [ ] B.S.C. 5 [ ] Station

FedEx Emp. No.

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information.

We will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Maximum amount limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the declared value specified to the left. Recovery cannot exceed actual documented loss.

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund all transportation charges paid. See Service Guide for further information.

5 Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Release Signature:

Date/Time: 2-28

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 11/89
PART #119500 SRCEF 11/89
FORMAT #014

014

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USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U. S. LOCATIONS.

QUESTIONS? CALL 800-238-5355 TOLL FREE.

7566916696

PACKAGE TRACKING NUMBER 7566916696

SENDER'S COPY

SENDER'S COPY

Sender's Federal Express Account Number

Date

1 From (Your Name) Please Print

Company

Your Phone Number (Very Important)

Street Address

Department/Floor No.

City

State

ZIP Required

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.)

2 To (Recipient's Name) Please Print

Company

Recipient's Phone Number (Very Important)

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip + Codes.)

Department/Floor No.

City

State

ZIP Required

3 PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card 5 ☐ Cash

Expiration Date

4 SERVICES (Check only one box)

Priority Overnight Service (Delivery by next business morning†)

11 ☐ YOUR PACKAGING

16 ☐ FEDEX LETTER *

12 ☐ FEDEX PAK *

13 ☐ FEDEX BOX

14 ☐ FEDEX TUBE

Standard Overnight Service (Delivery by next business afternoon†)

51 ☐

56 ☐ FEDEX LETTER *

52 ☐ FEDEX PAK *

53 ☐ FEDEX BOX

54 ☐ FEDEX TUBE

Economy Service (formerly Standard Air) (Delivery by second business day†)

30 ☐ ECONOMY SERVICE

Heavyweight Service (for Extra Large or any package over 150 lbs.)

70 ☐ HEAVYWEIGHT **

80 ☐ DEFERRED HEAVYWEIGHT **

† Delivery commitment may be later in some areas.

*Declared Value Limit $100.

**Call for delivery schedule.

DELIVERY AND SPECIAL HANDLING

1 ☐ HOLD FOR PICK-UP (Fill in Box H)

2 ☐ DELIVER WEEKDAY

3 DELIVER SATURDAY (Extra charge) (Not available to all locations) ☐

4 ☐ DANGEROUS GOODS (Extra charge) (CSS not available for Dangerous Goods Shipments)

5 ☐ CONSTANT SURVEILLANCE SVC. (CSS) (Extra charge) (Release Signature Not Applicable)

6 ☐ DRY ICE _____ Lbs.

7 ☐ OTHER SPECIAL SERVICE

8 ☐

9 ☐ SATURDAY PICK-UP (Extra charge)

10 ☐

11 ☐ DESCRIPTION

12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

PACKAGES	WEIGHT in Pounds Only	YOUR DECLARED VALUE (See right)	OVER SIZE
Total	Total	Total	

DIM SHIPMENT (Heavyweight Services Only) ☐ _____ lbs.

Received At

1 ☐ Regular Stop 3 ☐ Drop Box

2 ☐ On-Call Stop 4 ☐ B.S.C.

5 ☐ Station

FedEx Emp. No.

H IF HOLD FOR PICK-UP, Print FEDEX Address Here

Street Address

City

State

ZIP Required

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information.

We will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Maximum amount limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the declared value specified to the left. Recovery cannot exceed actual documented loss.

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund all transportation charges paid. See Service Guide for further information.

5 Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Release Signature:

Date/Time

Federal Express Use

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 11/88

PART #119500 SRCEF 4/90

FORMAT #014

014

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EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report

(For CLP Use Only)

Case Number: 15964

SAS No. (if applicable): N/A

1. Type of Activity (Check one)

	ENF		NPLD		RA	X	SI		STSI
	ER		O&M		RD		ST		Other *(Specify)*
	ESI		PA		RIFS		STPA		

2. Region Number: V

Sampling Co.: FIT

Sampler (Name): MATHEW JOSEPH

4. Date Shipped: 2/28/91

Airbill Number: 75 669161596

Carrier: F

Non-Superfund Program

Site Name: FORD MOTOR COMPANY, OHIO TRUCK PLANT

City, State: AVON LAKE, OHIO

Site Spill ID: NONE

3. Ship To:
NET MIDWEST, INC
850 WEST BARTLETT RD
BARTLETT, IL 60103
ATTN: DENISE GERMAIN

Triple volume required for matrix spike/duplicate aqueous sample.

Ship medium and high concentration samples in paint cans.

See reverse for additional instructions.

5. Sample Description *(Enter in Column A)*
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (SAS)
7. Waste (SAS)
8. Other (SAS) *(Specify)*

CLP Sample Number *(From labels)*	(A) Sample Description *(From box 1)*	(B) Concentration L=low M=med H=high	(C) RAS Analysis VOA	BNA	Pest/PCB	(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number
EMW 72	5	L	✓	✓	✓		S1	2/28/91 1210	MEMW 58
EMW 73	5	L	✓	✓	✓		S2	2/28/91 1230	MEMW 59
EMW 74	5	L	✓	✓	✓		S3	2/28/91 1230	MEMW 60
EMW 75	5	L	✓	✓	✓		S4	2/28/91 1310	MEMW 61
EMW 76	5	L	✓	✓	✓		S5	2/28/91 1415	MEMW 62
EMW 77	5	L	✓	✓	✓		S6	2/28/91 1445	MEMW 63
EMW 78	5	L	✓	✓	✓		S7	2/28/91 1450	MEMW 64
EMW 79	5	L	✓	✓	✓		S8	2/28/91 1505	MEMW 65
EMW 80	5	L	✓	✓	✓		S9	2/28/91 1530	MEMW 66
				SHIPMENT IS COMPLETE					

EPA Form 9110-2 (8-88) Replaces EPA Form 2075-7, which may be used. Blue - SMO Copy Pink - Region Copy White - Lab Copy for Return to SMO Yellow - Lab Copy

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: F04646
PROJECT NAME: F05-9007-012 / CASE 15964
SAMPLERS: (Signature) [signature]

COOLER # 69

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	2 pint	2 - 120ml VOA	803 ABN/PEST/RB				REMARKS: Tag #s	REMARKS: Low Conc. matrix
EMW72	2/28/91	1210		X	S1	3	2	1					5-164351 — 53	Soil
EMW73	2/28/91	1230		X	S2	3	2	1					5-164355 - 57	Soil
EMW74	2/28/91	1230		X	S3	3	2	1					5-164359 - 61	Soil
EMW75	2/28/91	1310		X	S4	3	2	1					5-164363 - 65	Soil
EMW76	2/28/91	1415		X	S5	3	2	1					5-164367 - 69	Soil
EMW77	2/28/91	1445		X	S6	3	2	1					5-164371 - 73	Soil
EMW78	2/28/91	1450		X	S7	3	2	1					5-164375 - 77	Soil
EMW79	2/28/91	1505		X	S8	3	2	1					5-164379 - 81	Soil
EMW80	2/28/91	1530		X	S9	3	2	1					5-164383 - 85	Soil
													Lot # 803 : 0212053	
													120ml : W0278013	
													DTR IN COOLER # 69	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	2/28/91 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: SHIPPED FED EXP TO NET AIR BILL # 7566916696 custody seals: 35100, 35101	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 10783

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report
(For CLP Use Only)

Case Number: 15964
SAS No. (if applicable): N/A

1. Type of Activity (Check one)
☐ ENF ☐ NPLD ☐ RA ☒ SI ☐ STSI
☐ ER ☐ O&M ☐ RD ☐ ST ☐ Other *(Specify)*
☐ ESI ☐ PA ☐ RIFS ☐ STPA

Non-Superfund Program

Site Name: FORD MOTOR COMPANY, OHIO TRUCK PLANT

City, State: AVON LAKE, OHIO

Site Spill ID: NONE

2. Region Number: V

Sampling Co.: FIT

Sampler (Name): MATHEW JOSEPH

3. Ship To: DATACHEM, INC.
960 W. 1700 SOUTH
SALT LAKE CITY, UT 84123
ATTN: LEE HARRIS

4. Date Shipped: 2-28-91

Carrier: F

Airbill Number: 6028 046754

Double volume required for matrix spike/duplicate aqueous sample.

Ship medium and high concentration samples in paint cans.

See reverse for additional instructions.

5. Sample Description *(Enter in Column A)*
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (SAS)
7. Waste (SAS)
8. Other (SAS) *(Specify)*

CLP Sample Number (From labels)	(A) Sample Description (From box 5)	(B) Concentration L=low M=med H=high	(C) List Preservative Used/Vol	(D) RAS Analysis: Total or Dissolved Metals	(D) Cyanide	(D) Low Conc. Sow: Nitrate/Nitrite	(D) Low Conc. Sow: Fluoride	(E) Special Handling	(F) Station Location	(G) Date/Time of Sample Collection	(H) Corresponding Organic Sample Number
MEMW58	S	L	N	✓	✓				S1	2/28/91 1210	EMW72
MEMW59	S	L	N	✓	✓				S2	2/28/91 1230	EMW73
MEMW60	S	L	N	✓	✓				S3	2/28/91 1230	EMW74
MEMW61	S	L	N	✓	✓				S4	2/28/91 1310	EMW75
MEMW62	S	L	N	✓	✓				S5	2/28/91 1415	EMW76
MEMW63	S	L	N	✓	✓				S6	2/28/91 1445	EMW77
MEMW64	S	L	N	✓	✓				S7	2/28/91 1450	EMW78
MEMW65	S	L	N	✓	✓				S8	2/28/91 1505	~~EMW~~ EMW 79
MEMW66	S	L	N	✓	✓				S9	2/28/91	EMW80
MA 2/28/91											

SHIPMENT IS COMPLETE

Comments: Samples by concentration and matrix. Leave your name and a number where you can be reached. Report any delays or shortages in numbered in pkg. Report sample shortages to USEPA Contract Laboratory Program Sample Management Office PO Box 818 Alexandria, VA 22313 (703) 557-2490 FTS 557-2490

EPA Form 9110-1 (11-89) Replaces EPA Form 2075-6 which may be used. Green: Region Copy Pink: SMO Copy White: Lab Copy for Return to SMO Yellow: Lab Copy

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: FDH0646
PROJECT NAME: F05-9007-012 / CASE: 15964
SAMPLERS: (Signature) Walter Joseph
COOLER # 913

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	803 METALS/CN						REMARKS: Tag #s	REMARKS: Low Con. Matrix
MEMW58	2/28/91	1210		X	S1	1	1						5-164354	Soil
MEMW59	2/28/91	1230		X	S2	1	1						5-164358	Soil
MEMW60	2/28/91	1230		X	S3	1	1						5-164362	Soil
MEMW61	2/28/91	1310		X	S4	1	1						5-164366	Soil
MEMW62	2/28/91	1415		X	S5	1	1						5-164370	Soil
MEMW63	2/28/91	1445		X	S6	1	1						5-164374	Soil
MEMW64	2/28/91	1450		X	S7	1	1						5-164378	Soil
MEMW65	2/28/91	1505		X	S8	1	1						5-164382	Soil
MEMW66	2/28/91	1530		X	S9	1	1						5-164386 Lot #	Soil
													803 bottle: 0212053	
													ITR IN COOLER # 913	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Walter Joseph	2/28/91 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: SHIPPED FEDEXP TO DATAC CUSTODY SEALS 35098, 35099 AIRBILL # 6628 046754	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

non-responsive

County LORAIN Township SHEFFIELD Section of Township or Lot Number

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 10

Type of screen — Length of screen —

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water 10 ft.

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
CLAY	0 Feet	6 Ft
DARK SHALE	6	45

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

non-responsive

S.

See reverse side for instructions

Drilling Firm L SCHUSTER + SON Date 8-13-53

Address ELYRIA, O Signed B. [illegible]

7

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

non-responsive

County LORAIN Township SHEFFIELD Section of Township or Lot Number

non-responsive

CONSTRUCTION DETAILS	PUMPING TEST
Casing diameter 6 Length of casing 9	Pumping rate G.P.M. Duration of test hrs.
Type of screen — Length of screen —	Drawdown ft. Date
Type of pump —	Developed capacity
Capacity of pump	Static level—depth to water 11 ft.
Depth of pump setting	Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
SAND & STONE	0 Feet	5 Ft.
SANDSTONE	5	46

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

non-responsive

See reverse side for instructions

Drilling Firm L. SCHUSTER & SON Date 6 7 55

Address ELYRIA, O Signed B. Schuster

6

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

non-responsive

County Lorain Township Sheffield Section of Township

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 90
Type of screen Length of screen
Type of pump
Capacity of pump
Depth of pump setting
Date of completion

BAILING OR PUMPING TEST

Pumping rate 10 G.P.M. Duration of test hrs.
Drawdown ft. Date
Developed capacity
Static level—depth to water ft.
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Clay		6
Shale	6	65
water in Shale		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

non-responsive

S.

See reverse side for instructions

Drilling Firm Wm Diederich & Son Date 3-7-57
Address Wellington O Signed Wm Diederich

4

ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1500 Dublin Road
Columbus, Ohio

non-responsive

County Lorain Township Sheffield Section of Township

non-responsive

CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
Casing diameter 5 5/8 Length of casing 20	Pumping rate 8 G.P.M. Duration of test ____ hrs.
Type of screen ____ Length of screen ____	Drawdown ____ ft. Date ____
Type of pump ____	Developed capacity ____
Capacity of pump ____	Static level—depth to water ____ ft.
Depth of pump setting ____	Pump installed by ____
Date of completion 4-24-58	

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	____ Ft.
Clay		25
Shale	25	90
Water in Shale		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

non-responsive

See reverse side for instructions

Drilling Firm Wm Fiedrich & Sons Date 4-28-58

Address No. Ridgeville Ce. Signed Leonard Fiedrich

3

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

non-responsive

County LORAIN Township SHEFFIELD Section of Township

non-responsive

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 26 1/2 (23' 4 1/2" LINING)
Type of screen — Length of screen
Type of pump
Capacity of pump
Depth of pump setting 47'
Date of completion 5-19-60

BAILING OR PUMPING TEST

Pumping rate 2 G.P.M. Duration of test hrs.
Drawdown 50 ft. Date
Developed capacity 2 GPM
Static level—depth to water 11'-8" ft.
Pump installed by SUCTION CONNECTED TO OWNERS PUMP & SEAL INSTALLED AT WELL

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
SAND & CLAY	0 Feet	17 Ft.
LIGHT SHALE	17	27
STONE	27	30
LIGHT SHALE	30	40
DARK "	40	50
WATER AT 30'		
4 1/2 LINER INSTALLED	30' TO	50'

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N. LORAIN

non-responsive

W.

S.

See reverse side for instructions

Drilling Firm BERN SCHUSTER Date 5-19-60
Address ELYRIA O Signed B. Schuster

5