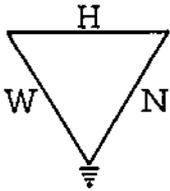


MAR 06 1995



Wagner, Heindel, and Noyes, Inc.

• Consulting Hydrogeologists
• Engineers
• Environmental Scientists

P.O. Box 1629 Burlington, Vermont 05402-1629

802-658-0820
FAX: 802-860-1014

March 6, 1995

Mr. Matthew Moran
Sites Management Section
Agency of Natural Resources
103 South Main Street
Waterbury, VT 05671-0404

#94-1733

Re: 140-140A Riverside Avenue Site in Burlington, Vermont

Dear Matt:

As requested by your office, Wagner, Heindel, and Noyes (WH&N) provides the following information gathered from the 140-140A Riverside Avenue site in Burlington, Vermont.

1) **Sensitive Receptor Survey.**

As the site plan in Appendix 1, page 1, indicates, the subject property is located on Riverside Avenue approximately 450 feet from the Winooski River. Lakes or ponds are not located downgradient of the subject site. Surface water run-off from this urbanized area is directed to culverts which enter the municipal stormwater drain system, and day-light below Riverside Avenue above the Winooski River.

On the eastern boundary of the site, a small, surface swale emanates from ponded water on the neighboring property (see Appendix 1, page 2). An employee of the neighboring Used-Car Sales/Autobody Shop disclosed that the ponding was apparently caused by a clogged culvert.

? salmon

Wildlife refuges are not located in this area. No mapped wetlands or flood plains are found in this area of relatively steep, benched topography. The Winooski River Floodplain (Intervale) begins 4000-5000 feet downgradient of the subject site. Class I and II Groundwater Zones are not found in this area. Potable water is supplied by the municipal system.

2) **Test Pit Logs.**

Test Pit logs for the investigative work performed on the site are located in Appendix 1, pages 4 to 9. The locations of the Test Pits are noted on the Schematic Site Plan found in Appendix 1, page 2.

3) **Field PID Measurements.**

Field PID readings measured during the removal of the foundation drain piping and the subsequent stockpiling of soils on the site are presented in Appendix 1, pages 10 to 12. Volatile organic screening of soils near the foundation drain piping were measured with a MicroTIP Photovac photoionization detector (PID). This PID is equipped with a 10.6 eV lamp and was calibrated to a benzene equivalent. During the drain pipe removal, positive PID values ranged from 2.6 to 28 parts per million (ppm). During the excavation of soils for stockpiling, the range was from 0.0 to 101 ppm.

4) **Monitoring Well Installations.**

Four shallow monitoring wells were installed on the site downgradient of the former ABC Repair Shop building (see location map in Appendix 1, page 3) in the area of excavation. Well logs for these four wells are presented in Appendix 1, pages 13 to 14. MW-1 was installed by hand in native soils (fill material), and MW-2, MW-3, and MW-4 were drilled using 4.25" hollow stem augers in clean fill material.

5) **Laboratory Results.**

Previously, WH&N forwarded a summary table of laboratory results to the PSMS on December 16, 1994. Copies of the actual laboratory reports from which this Summary Table of Laboratory Results was prepared, are located in Appendix 2, pages 9a to 66.

6) **Additional Laboratory Results.**

Subsequent sampling results are found in Appendix 3. Soils collected during the excavation of the piping were submitted for Volatile Organic Compounds (VOCs) and Polyaromatic Hydrocarbon (PAH) analyses (Appendix 3, pages 1 to 9). Approximately 75 cubic yards of contaminated soils were stockpiled on-site. The Total Petroleum Hydrocarbon (TPH) and VOC results from two composite soil samples representative of the stockpile, Composite A and Composite B, are also presented in Appendix 3, pages 10 to 14 and pages 23 to 25. Stockpiled soils do not show elevated levels of contamination. VOC, PAH, and TPH results from an additional soil composite from soil material under the building slab, are located in Appendix 3, page 15 to 17 and pages 20 to 25. Small amounts of residual contamination exist below the slab at locations beyond the reach of the backhoe excavation.

Results of Toxicity Characteristic Leachate Procedure (TCLP) analyses of RCRA metals, TPH's, and VOC's of a composite soil sample from near the foundation drain piping are found in Appendix 3, pages 26 to 36. None of the TCLP results

Mr. Matthew Moran
March 6, 1995
Page 3

indicate that there are hazardous materials on site.

Groundwater sampling results from the East Foundation Drain Pipe and MW-3 are found in Appendix 3, pages 18 to 19 and 37 to 49. MW-3 shows levels of lead slightly above Groundwater Standards. The lack of groundwater use in this area and the lack of downgradient sensitive receptors suggests that these levels of contamination are not a health risk.

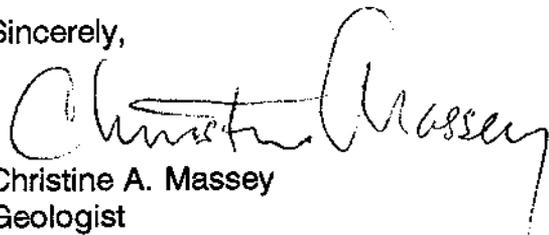
7) **Future Monitoring.**

Future monitoring of the site will include groundwater sampling for VOC's and lead in April and June of 1995 and stockpiled soil sampling for VOC's and TPH in June of 1995. WH&N anticipates that the site will have effectively remediated by the summer of 1995, and we will file a final report with the PSMS by July of 1995.

Please feel free to contact our office with any comments or questions you may have.

Thank you.

Sincerely,



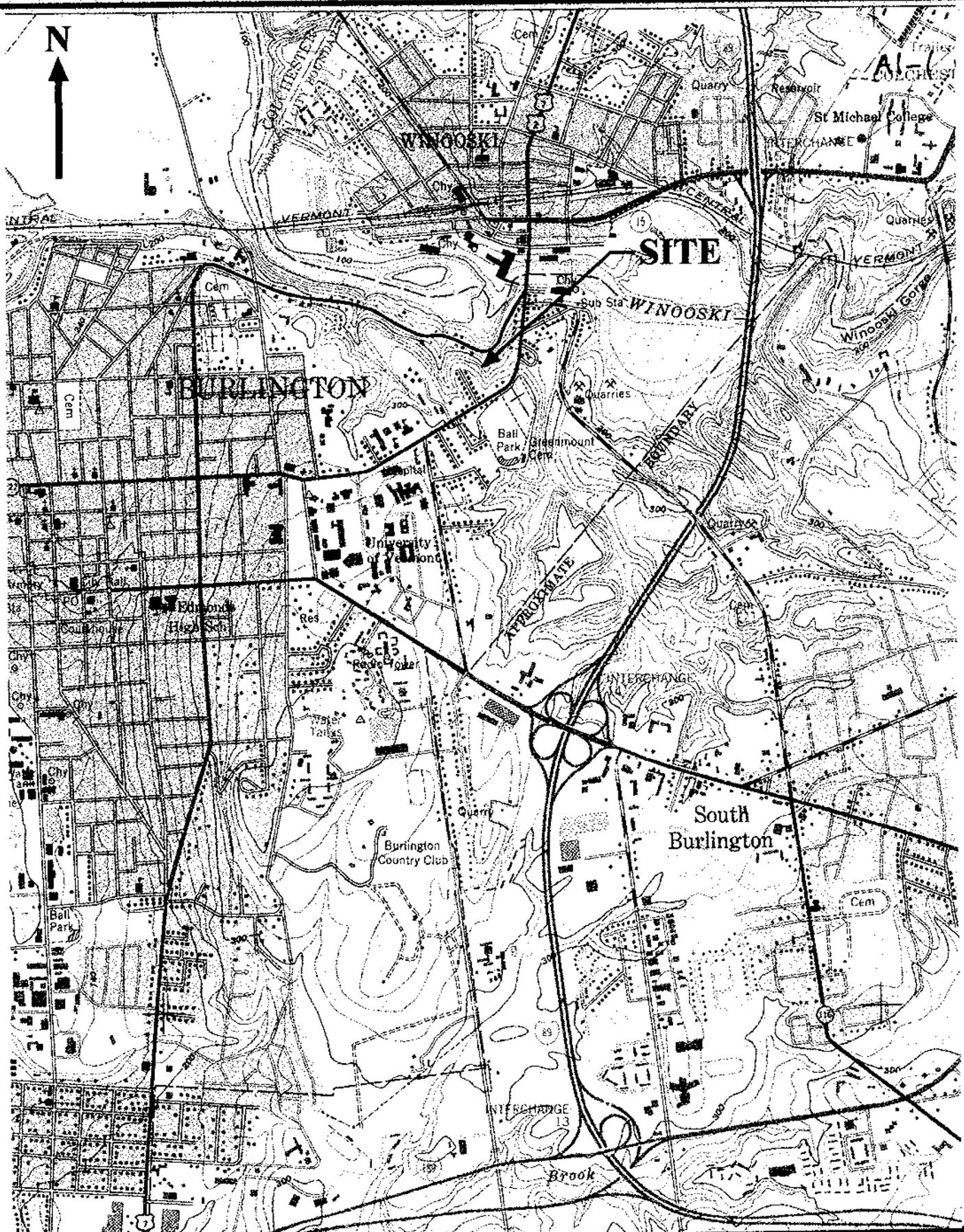
Christine A. Massey
Geologist

CAM/ral

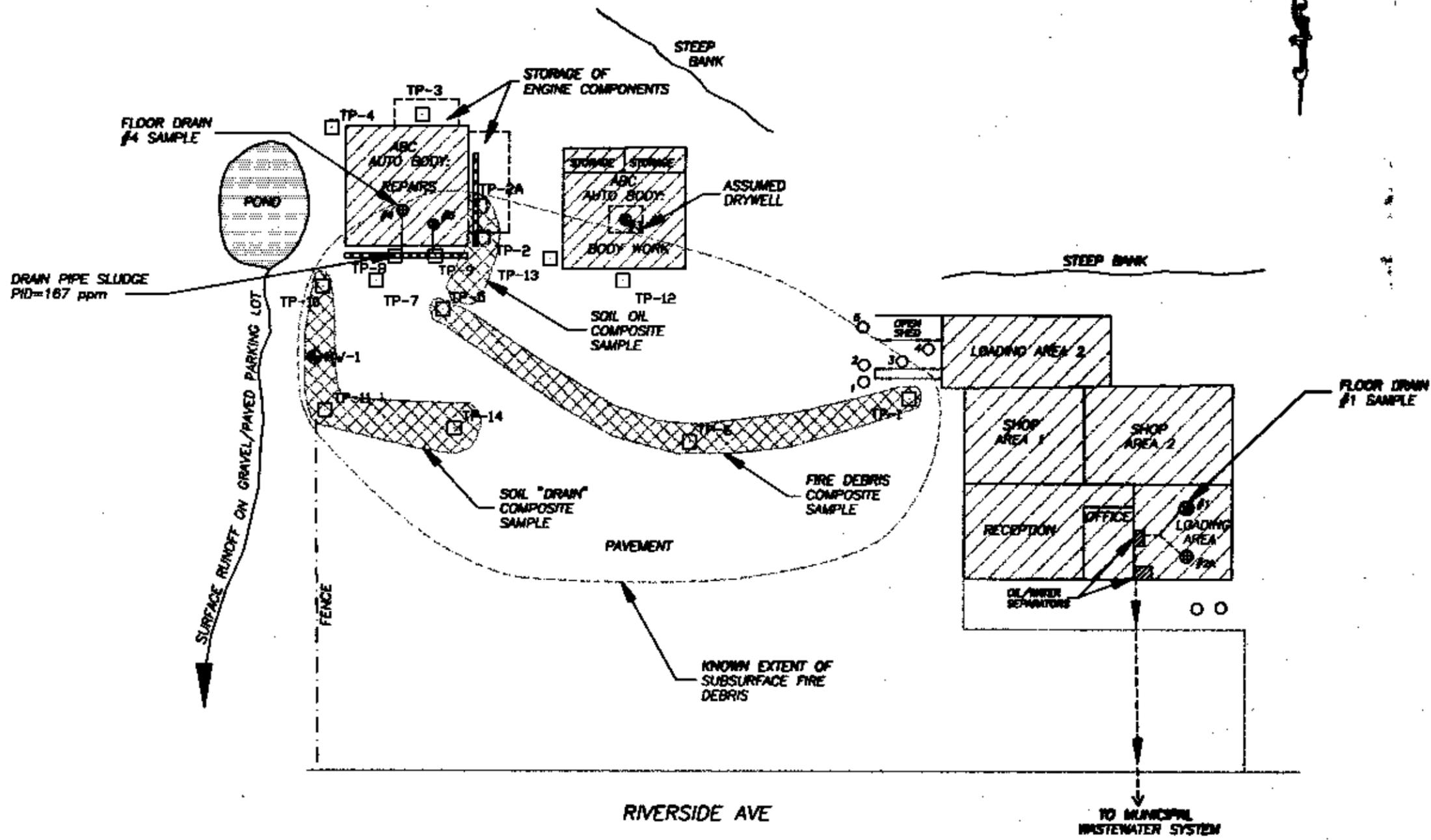
Enclosure

cc: Ms. Robin Willey

[U:CMASSEY\WPDOCS\MORAN.L1]



VNB/140-140A RIVERSIDE AVENUE		DRAWN BY: M. Luman	APPROVED: J. Noyes
BURLINGTON, VERMONT		Wagner, Heindel, and Noyes, Inc. CONSULTING SCIENTISTS AND ENGINEERS • Hydrogeology • Ecology • • Environmental Engineering • P.O. BOX 54709 BURLINGTON, VERMONT 05406-4709	
SITE LOCATION MAP			
SCALE: 1"=2000'	DATE: JANUARY 23, 1995		
FILE: C:\VNB\SITELOCA	PROJECT NO. 94129		



TEST PIT	FIELD PID
TP-7	4.4 ppm
TP-10	7.7 ppm
TP-11	16.0 ppm
TP-14	3.1 ppm

LEGEND	
□ TP-6	TESTPIT LOCATION
●	FLOOR DRAIN
—	FOUNDATION DRAIN
○	55 GAL DRUMS
⊕ MW-1	MONITORING WELL

VNB/140-140A RIVERSIDE AVENUE

BURLINGTON, VERMONT

SCHEMATIC SITE PLAN

SCALE: NOT TO SCALE

DATE: FEBRUARY 2, 1995

PROJECT NO. 94129
FILE: C:\VNB\RIVERSIDE

DRAWN BY: M. Luman
APPROVED: J. Topp

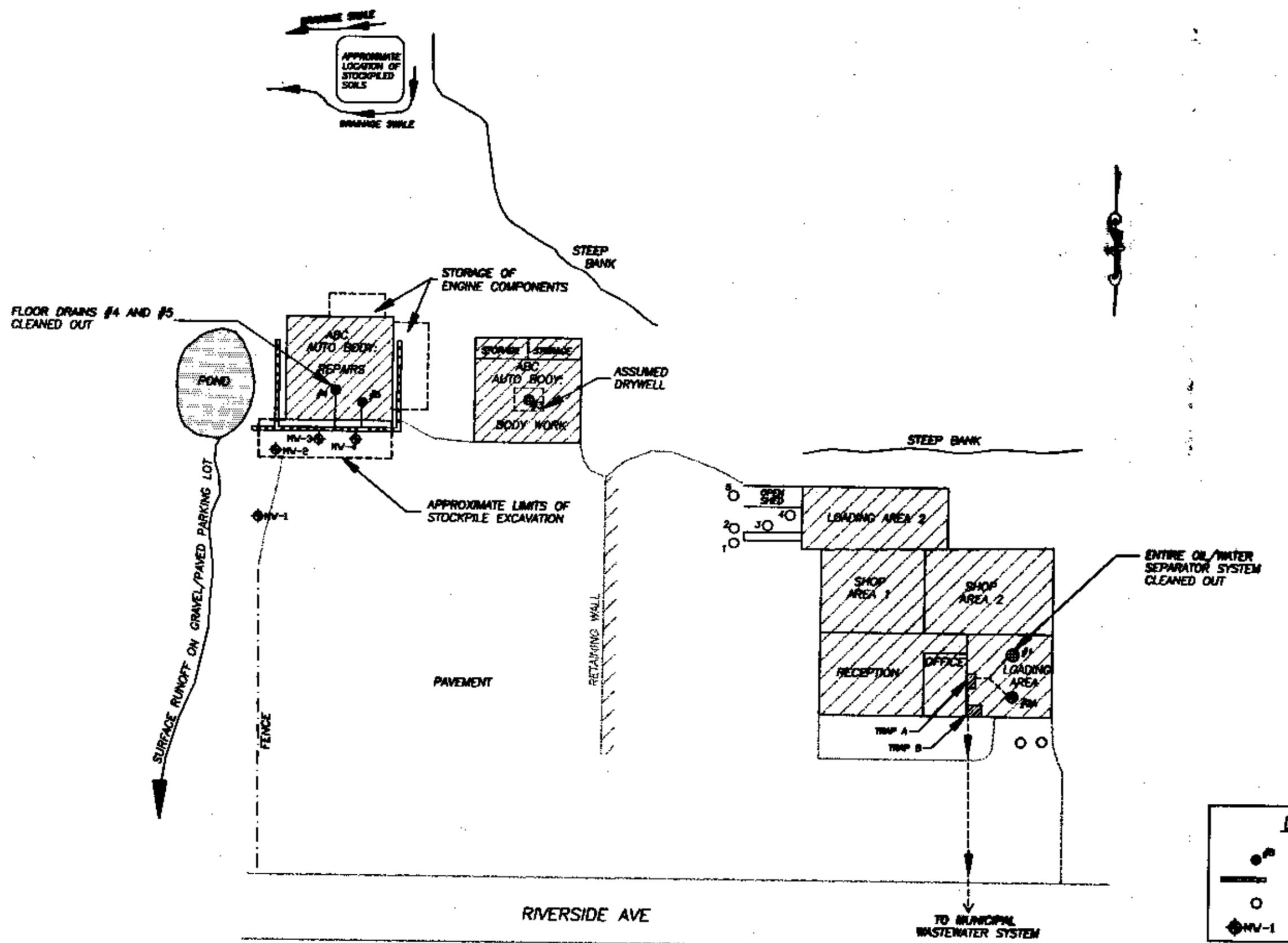
Koontz, Heindel, and Noyes, Inc.
CONSULTING SCIENTISTS AND ENGINEERS

• Hydrogeology • Ecology •
• Environmental Engineering •

P.O. BOX 64709 BURLINGTON, VERMONT 05406-4709



ALL



LEGEND	
	FLOOR DRAIN
	FOUNDATION DRAIN
	55 GAL DRUMS
	MONITORING WELL

PROJECT NO. 94129
FILE: C:\VNB\RIVERSIDE
DRAWN BY: M. Luman
APPROVED: J. Taylor

Wagner, Heindel, and Noyes, Inc.
 CONSULTING SCIENTISTS AND ENGINEERS
 • Hydrogeology • Ecology •
 • Environmental Engineering •
 P.O. BOX 94709 BURLINGTON, VERMONT 05406-4709

VNB/140-140A RIVERSIDE AVENUE
BURLINGTON, VERMONT

SCHEMATIC SITE PLAN
DATE: FEBRUARY 2, 1995
SCALE: NOT TO SCALE

A1-3

Test Pit Log
VNB/140-140A Riverside Avenue
Burlington, Vermont

Inspector: C. Massey
 PID: H-NU with 10.2 eV Probe
 Excavator: A. Marcellino

November 9, 1994

Page 1

Test Pit 1

Location: in front of oil storage area wall, east of Queen City Electric building

Depth Interval	PID Reading	Soil Type
Surface	_____	asphalt
0-0.2'	0.1 ppm	sand and gravel fill; damp
1.0'-1.5'	0.1 ppm	sand and gravel fill; damp
2.7'-3.0'	0.3 ppm	gray discolored sand, petroleum odor; damp
3.3'-3.6' (A)	0.1 ppm	gray discolored sand, slight odor; moist
3.3'-3.6' (B)	0.1 ppm	gray/pink weathered bedrock
3.1'-3.3' (C)	0.1 ppm	gray discolored sands with charcoal log, metal debris; water seeping at this level
4.6'-4.8'	0.1 ppm	gray/pink weathered bedrock with gravel and cobbles
5'-6'	_____	bedrock

Test Pit 2

Location: West side of the ABC Auto Body Repair Shop (building at far east side of property), automobile parts storage area identified in Phase I.

Surface (0-0.2')	0.9 ppm	oil stained soil
1.5'-1.7'	6.0 ppm	sand and gravel fill; damp to dry
2.5'-2.7' (center of pit)	1.3 ppm	sand and gravel fill near bedrock; water seeping at this level
2.5'-2.7' (downgradient end of pit)	0.4 ppm	brown and gray clay silt with fine sands
3.0'	_____	bedrock

Test Pit Log
VNB/140-140A Riverside Avenue
Burlington, Vermont

Test Pit 2A

Location: Adjacent to and slightly upgradient from test pit 2.

Surface (0-0.2')	2.0 ppm	oil stained soils
0.5'-0.7'	0.8 ppm	gray discolored sands and brown gravel fill
1.5'-1.7'	0.6 ppm	gray silty sands with oxidized materials and plastic debris
2.5'-2.7' (A)	1.5 ppm	gray laminated silts and fine sands
2.5'-2.7' (B) (near foundation drain pipe)	1.5 ppm	sand and gray fill
3.7'	_____	bedrock

Test Pit 3

Location: Upgradient and behind ABC Auto Body Repair Shop building.

Surface (0-0.2')	0.1 ppm	brown fine sands and organics with surface staining
0.5'-0.7'	0.2 ppm	oxidized root masses and sandy pebbles; wet to moist
1.0'-1.2'	0.2 ppm	brown sand and gravel fill; moist; water seeping at 1.5' bgs
2.3'-2.5'	0.2 ppm	gray clay silt with fine sand; damp
3.0'-3.2'	0.3 ppm	gray to pink silty clay, dense; moist
3.7'	_____	boundary between overlying silty sands and underlying silty clay
4.0'-4.2'	0.1 ppm	gray silty clay, dense
4.2'	_____	bedrock

Test Pit 4

Location: East side of ABC Auto Body Repair Shop downgradient of above ground storage tank; between building and marshy pond.

0.1'-0.3'	0.1 ppm	brown to gray silty sand (loamy top soil); damp
0.8'	_____	water seep on downgradient pit wall
2.1'-2.3'	0.1 ppm	gray silt; dry to damp
3.5'-3.7'	0.1 ppm	gray clay silts; damp to wet, just above water table at 3.7' bgs
5.3'-5.5'	0.1 ppm	gray to pink clay, just above bedrock
6'-7' (?)	_____	bedrock

Test Pit Log
VNB/140-140A Riverside Avenue
Burlington, Vermont

Test Pit 5
Location: Downgradient of test pits 2 and 2A.

Surface	—	asphalt
0.1'-0.3'	0.1 ppm	sand and gravel fill
1.2'-1.4' (front pit face)	0.2 ppm	darken soil layer above debris layer
1.5'-2.0'	3.7 ppm	gray sands and cobbles with automobile part debris, slight odor; layer of debris between sand and gravel fill above and gray sandy soils below
2.0'-2.5' (side wall)	0.1 ppm	modeled gravel and debris material (concrete, old asphalt, gravel); damp to wet
3.0'-3.2' (front pit face)	0.1 ppm	modeled gray and oxidized sands with gravel; damp to wet, water seeping at this level
3.0'-3.2' (east side wall)	0.1 ppm	oxidized sand and cobbles at water table
4.2'-4.4'	0.1 ppm	gray clay silts; damp
5.2'-5.4'	0.1 ppm	layered silty clay and fine sand above bedrock
5.4'	—	bedrock

Test Pit 6
Location: Downgradient of ABC Body Work shop and downgradient of Test Pit 1 at bottom of driveway slope; in-line with the center of the Queen City Electric building

Surface	—	asphalt
0.1'-0.2'	1.3 ppm	sand and gravel fill
2.1'-2.8'(east side wall)	0.2 ppm	loose ashen material from burn debris including wood, charcoal, and glassy lag
1.2'-1.4'	0.4 ppm	gray silty fine sands with charcoal and ash material, slight petroleum odor; metal, wood and lumber debris
3.0'-3.8'	0.2 ppm	gray clay silts with some fine sands; dry to damp
5.0'-5.2'	0.1 ppm	gray to pink clay, dense; damp (? soft)

AL-

Test Pit Log
VNB/140-140A Riverside Avenue
Burlington, Vermont

November 14, 1994

Inspector: C. Massey
 PID: MicroTip with 10.6 eV
 Excavator: A. Marcellino

Test Pit 7
Location: Downgradient from floor drain #4 in front of ABC Autobody repair shop, at edge of concrete.

Surface	_____	asphalt
2.0'-2.2'	0.8 ppm	sand and gravel fill; wet
4.0'	4.4 ppm	gray fine sandy silt; wet, water seep at 3.8 ft bgs
5.5'	2.5 ppm	gray fine sandy silt with some clay
6.0'-7.5'	1.1 ppm	gray silty clay with some pink bedrock material; dry, dense

Test Pit 8
Location: Downgradient from floor drain #4 at edge of building below concrete

Surface	_____	concrete
2.3'	167 ppm	foundation drain pipe with drainage holes containing black and gray oily sludge
2.5'	0.5 ppm	sand and gravel fill, debris fill including layer of asphalt, water seep at approximately 2.5 ft bgs

Test Pit 10
Location: The downgradient northeast corner of the ABC repair shop at approximate location where foundation drain pipe ends

Surface	_____	stained soils
1.7'-2.3'	0.8 ppm	coarse gravel with oxidized layers; damp to wet
2.3'-2.7'	0.7 ppm	sand and gravel fill; wet, seeping at this level
2.7'-3.0'	0.9 ppm	gray silt; wet
3.7' (southeast corner of pit)	7.7 ppm	gray silt with burned debris material; wet
5.2'	4.1 ppm	gray silty clay; compact

Test Pit Log
VNB/140-140A Riverside Avenue
Burlington, Vermont

Test Pit 11

Location: East property boundary at fence line downgradient of Test Pit 10 and Test Pit 7.

Surface	_____	asphalt
1.3'-1.5'	0.5 ppm	sand and gravel fill; wet, seeping at this level
1.8'-2.4'	0.7 ppm	gray sand and bury debris (metal, wood, glass), petroleum odor; wet
3.5'-4.0' (east side wall)	11-16 ppm	transition between gray silt and gray clay
3.5'-4.0'	12.1 ppm	transition between gray silt and gray clay; with burned debris
5.5'-6.0'	1.0 ppm	gray to green silty clay (moist) over gray clay (dry)
7.0'	0.6 ppm	pink to gray clay

Test Pit 12

Location: Immediately downgradient of ABC Body Shop building and downgradient of floor drain #3

Surface	_____	asphalt
2.0'-2.5'	1.1 ppm	coarse gravel fill; dry
4.5'-5.0'	0.7 ppm	black to gray burn debris
5.0'	0.9 ppm	gray clayey silt; dry
6.0'-6.5'	0.9 ppm	gray to pink silty clay; damp

Test Pit 13

Location: Downgradient of floor drain #3 at the northeast corner of the ABC Body Shop building

Surface	_____	stained soils
2.3'-2.5'	0.6 ppm	coarse gravel fill with sand, oxidized concrete debris; wet to damp
3.0'-3.5'	0.6 ppm	black and white coarse ash material; wet, seeping water at this level
3.2'-3.7' (east side wall)	1.2 ppm	transition between gray silt and gray clay
4.5'	0.9 ppm	gray clay, just above bedrock

Test Pit Log VNB/140-140A Riverside Avenue Burlington, Vermont		
Test Pit 14 Location: Downgradient from both ABC Repair and Body Work shops, laterally located between Test Pit 11 and Test Pit 6 in the middle of the parking lot		
Surface	_____	asphalt
0.5'-1.0'	1.0 ppm	gravel fill with debris; dry
1.0'-1.5'	0.9 ppm	gray silt; damp
3.5'-3.7'	3.1 ppm	gray clayey silt
4.5'-4.7'	2.2 ppm	silty fine sand; damp
5.3'-5.5'	0.8 ppm	gray silty clay; below the silt clay transition (5.0'), red brick debris (?)
6.5'-6.7'	0.7 ppm	pink to gray clay

VNB.TP1\CMASSEY

FIELD PID LEVELS IN SOILS VNB/140-140A Riverside Avenue Burlington, Vermont			
January 18, 1995			Page 1
Sample ID #	PID (ppm)	PID background (ppm)	Soil Type
Foundation Drain Piping Removal			
Date:	December 22, 1994		
Inspector:	C. Massey, WH&N		
PID:	MicroTIP with 10.6 eV lamp calibrated to a benzene equivalence		
East Composite	28	0.0	wet, gravel fill near pipe
Central East Composite	6.5	8.3	wet, gravel fill and grey clayey silt below pipe
West Composite	9.1	0.3	wet gravel fill
East Deep Composite	3.2	0.3	grey, clayey silt and fire debris; @ about 3.0' bgs
East Central Deep Composite	8.0	0.0	grey, clayey silt; @ about 3.0' bgs
Central Deep Composite (near #4 drain outlet)	25.3	0.0	grey clayey silt; @ about 3.0' bgs
West Deep Composite (near #5 drain outlet)	2.6	0.0	grey clayey silt; @ about 3.0' bgs
Note: A Total Composite sample of the above materials was submitted for laboratory analysis of 8260 and 8100 compounds.			
Stockpile Excavation			
Date:	December 28-29, 1994		
Inspector:	C. Massey, WH&N		
PID:	MicroTIP #1 with 10.6 eV lamp, calibrated to a benzene equivalence		
East surface gravel	0.0	0.0	gravel fill
E. 0-1' bgs	0.0	0.0	gravel fill with grey material
E. 1-2' bgs	0.0	0.0	gravel fill
E. 2-3' bgs	0.0	0.0	gravel fill with grey silt
E. 3-4' bgs	>1.1	0.0	gravel fill with grey silt
E. near piping	0.5	0.0	black debris
NE. composite 2-3' bgs	0.2	0.0	gravel fill

FIELD PID LEVELS IN SOILS
VNB/140-140A Riverside Avenue
Burlington, Vermont

January 18, 1995

Page 2

Sample ID #	PID (ppm)	PID background (ppm)	Soil Type
E. composite 2-4' bgs	5.4	0.0	dark grey silt, shiny(oily?)
NE. 3-4' bgs 0.7	0.7	0.0	grey silt
Center (near #4 drain) 3-4' bgs	0.8	0.0	grey silt
Vertical soil face (below #4 drain)	14.6	0.0	grey silt, oily
North Central 4-5' bgs (6' north of #4 drain)	1.5	0.0	pink/grey clayey silt
Central 2-3' bgs	2.0	0.0	grey silt
Vertical soil face (between #4 and #5 drains; below foundation)	48.5	0.0	blackened (oily?) grey silt and stones
N. Central 4-5' bgs (6' north of #4 and #5 drains)	1.6	0.0	grey silt
West 3' bgs (near #5 drain)	1.9	0.0	grey clayey silt
West 3.5' bgs	101	0.0	pink/grey clayey silt at bedrock
Upgradient of #5 drain; 3.5' bgs	62.3	0.0	grey clayey silt
N. Central 5-5.5' bgs (10' north of #4 drain)	6.9	0.0	grey clayey silt
S. West 2-3' bgs	0.0	0.0	gravel fill
N. Central 3-4' bgs (16' north of #4 and #5 drains)	0.0	0.0	grey clayey silt
N. Central 5-6' bgs (16' north of #4 and #5 drains)	0.0	0.0	pink/grey clayey silt
N. Central 6-7' bgs (16' north of #4 and #5 drains)	0.0	0.0	pink/grey silty clay at bedrock
NE. Central 5-6' bgs (15' north of #4 drain)	0.0	0.0	pink/grey clayey silt
NE. Central 6-7' bgs (15' north of #4 drain)	0.0	0.0	pink/grey silty clay at bedrock

FIELD PID LEVELS IN SOILS VNB/140-140A Riverside Avenue Burlington, Vermont			
January 18, 1995			Page 3
Sample ID #	PID (ppm)	PID background (ppm)	Soil Type
NW Central 4-5' bgs (15' north of #5 drain)	0.6	0.0	grey silty clay at bedrock
N. E. 3-4' bgs (10' north of NE end of building)	2.3	0.0	wet, grey silt
N. E. 3-4' bgs (E. of building near additional drain piping)	2.8	0.0	wet, grey silt

[U:\CMASSEY\WPDOCS\VNB.T2]

MONITORING WELL INSTALLATION REPORT
VNB/140-140A Riverside Avenue
Burlington, Vermont

January 14, 1995 Page 1

Installation: November 14, 1994
 Hand augered by C. Massey, WH&N

Monitoring Well 1

Surface	Stained soil
0 - 2.0'	Coarse gravel fill
2.0' - 4.0'	Gray sands and silty clays; wet

Monitoring Well Installation

- Screen: 2.0'-4.0' bgs; 2.0' section of 0.020" slotted screen, fabric wrapped;
- Native gravel fill: 2.0'-4.0' bgs
- Native silty clay fill: 0.0 - 2.0' bgs
- Well guard: None
- Water table: 2.0' bgs (November 15, 1994 at 12:45 p.m.)
3.11' bgs (January 12, 1995)
- Total depth: 6.98'
- Stickup: 2.94'

Installation: January 9, 1995.
 Inspector: C. Massey, WH&N
 Driller: Green Mountain Boring (Mike)
 Drill Rig: Trailer-mounted with 4.25" hollow-stem auger, no split-spoon samples

Monitoring Well 2

0 - 5.0'	Brown sand fill
5.0' - 7.0'	Gray silty clay

Monitoring Well Installation

- Screen: 1.5' - 6.5' bgs; 5' section of 0.020" slotted screen, fabric wrapped;
- Sand pack: 1.0'-6.5' bgs
- Bentonite: 0.0 - 1.0' bgs
- Well guard: None
- Water table: 1.81' bgs (January 12, 1995)
- Total depth: 9.93'
- Stickup: 2.92'

MONITORING WELL INSTALLATION REPORT

VNB/140-140A Riverside Avenue
Burlington, Vermont

A1-14

January 14, 1995

Page 2

Monitoring Well 3

0 - 5.0'	Brown sand fill
5.0' - 6.8'	Gray silty clay
6.8'	Bedrock

Monitoring Well Installation

- Screen: 1.5' - 6.5' bgs; 5.0' section of 0.020" slotted screen, fabric wrapped
- Native sandy fill: 3.0' - 6.8' bgs
- Sand pack: 1.0' - 3.0' bgs
- Bentonite: 0.0' - 1.0' bgs
- Well guard: None
- Water table: 2.36' bgs (January 12, 1995)
- Total depth: 9.95'
- Stickup: 3.20'

Monitoring Well 4

0 - 4.0'	Brown fill sand
4.0' - 5.5'	Gray silty clay
5.5'	Bedrock

Monitoring Well Installation

- Screen: 1.5' - 5.5' bgs; 4.0' section of 0.020" slotted screen, fabric wrapped
- Native sandy fill: 3.0' - 5.5' bgs
- Sand pack: 1.0' - 3.0' bgs
- Bentonite: 0.0' - 1.0' bgs
- Well guard: None
- Water table: 3.31' bgs (January 12, 1995)
- Total depth: 8.93'
- Stickup: 3.52'

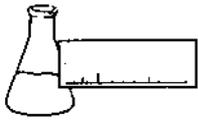
VNB/140-140A RIVERSIDE AVENUE
LABORATORY RESULTS
(all results in parts per billion (ppb) unless noted)

PARAMETER	COMPOSITE SOIL SAMPLES			GROUNDWATER	FLOOR DRAINS	
	FIRE DEBRIS (TP-1,5,6)	SOIL OIL (TP-2,2A,5)	SOIL DRAIN (TP-10,11,14)		FLOOR DRAIN #4	FLOOR DRAIN #11
Maximum Field PID(ppm)	0.4	6	16	0	7.2	1.7
Total xylenes	ND	44	ND	3.2	3260	40,300
Toluene	ND	ND	ND	ND	260	7910
1,1,1 - Trichloroethane	ND	ND	ND	ND	ND	1150
Trichloroethene (TCE)	ND	ND	ND	ND	ND	167
Tetrachloroethene (PCE)	ND	ND	ND	ND	669	3610
MTBE	ND	ND	ND	6.1	ND	ND
Benzene	ND	ND	ND	15.1	ND	374
Ethylbenzene	ND	ND	ND	<1	403	7650
8240 Unspecified compounds	6@(25-100)	>10@(50-500)	ND	ND	>10 @(500-2500)	> 10 @(200-2500)
Total PAHs	361.2	485	ND	31.5	ND	202,100
8100 Unspecified compounds	>10@(50-1000)	>10@(100-50000)	5@(ppb levels)	>10@(ppb levels)	>10 @(1000-20,000)	> 10 @(700-50,000)
Lead	75700	59600	10000	139	N/A	N/A
TCLP Lead	174	N/A	N/A	N/A	N/A	N/A
PCBs	ND@(80ppb limit)	ND@(300ppb limit)	ND@(40ppb limit)	ND@(2ppb limit)	ND @(3000ppb limit)	ND @(6000ppb limit)

ND = Not Detected (at test limit)
N/A = Not Measured

ROUND 1 SAMPLING

CAM 10



ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 18, 1994
DATE SAMPLED: November 8-9, 1994

PROJECT CODE: HNVN1325
REF. #: 67,465 - 67,468

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Chain of custody did not indicate sample preservation.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method.

Blank contamination was not observed at levels affecting the analytical results.

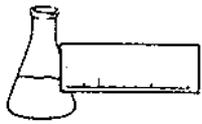
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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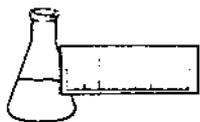
LABORATORY REPORT

EPA METHOD 8240 SOIL MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 18, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: November 10, 1994
ANALYSIS DATE: November 16, 1994

PROJECT CODE: HNVN1325
REF.#: 67,465
STATION: Composite Fire Debris
TIME SAMPLED: 13:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
Dichlorodifluoromethane	100	ND ¹
Chloromethane	100	ND
Vinyl Chloride	100	ND
Bromomethane	50	ND
Chloroethane	50	ND
Trichlorofluoromethane	20	ND
Acetone	500	ND
1,1-Dichloroethene	20	ND
Methylene Chloride	200	ND
Carbon Disulfide	10	ND
MTBE	30	ND
trans-1,2-Dichloroethene	20	ND
1,1-Dichloroethane	20	ND
2-Butanone	200	ND
Chloroform	100	ND
1,1,1-Trichloroethane	10	ND
Carbon Tetrachloride	10	ND
1,2-Dichloroethane	10	ND
Benzene	10	ND
Trichloroethene	10	ND
1,2-Dichloropropane	10	ND
Bromodichloromethane	10	ND



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REF.#: 67,465

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
4-Methyl-2-Pentanone	100	ND
cis-1,3-Dichloropropene	10	ND
Toluene	20	ND
trans-1,3-Dichloropropene	10	ND
1,1,2-Trichloroethane	20	ND
2-Hexanone	100	ND
Tetrachloroethene	20	ND
Dibromochloromethane	20	ND
Chlorobenzene	20	ND
Ethyl Benzene	10	ND
Total Xylenes	30	ND
Styrene	10	ND
Bromoform	50	ND
1,1,2,2-Tetrachloroethane	10	ND
1,3 Dichlorobenzene	20	ND
1,4 Dichlorobenzene	20	ND
1,2 Dichlorobenzene	20	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 6

ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethane-d4 : 95.%
Toluene-d8 : 105.%
4-Bromofluorobenzene : 106.%

PERCENT SOLIDS: 82.%

NOTES:

1 None detected

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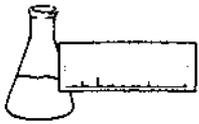
LABORATORY REPORTCHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/140-140A
Analysis: EPA Method 8240
Reference #: 67,465
Station I.D.: Composite Fire Debris
Unidentified Peaks: 6
Project Code: HNVN1325

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of aliphatic hydrocarbons ranging from 25 - 100 ug/kg.

Reviewed by _____

A handwritten signature in black ink, appearing to be "P. J. ...", is written over a horizontal line that serves as a signature line.



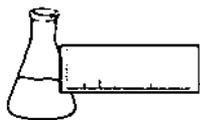
LABORATORY REPORT

EPA METHOD 8240 SOIL MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 18, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: November 10, 1994
ANALYSIS DATE: November 16, 1994

PROJECT CODE: HNVN1325
REF.#: 67,466
STATION: Composite Soil Oil
TIME SAMPLED: 11:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
Dichlorodifluoromethane	100	ND ¹
Chloromethane	100	ND
Vinyl Chloride	100	ND
Bromomethane	50	ND
Chloroethane	50	ND
Trichlorofluoromethane	20	ND
Acetone	500	ND
1,1-Dichloroethene	20	ND
Methylene Chloride	200	ND
Carbon Disulfide	10	ND
MTBE	30	ND
trans-1,2-Dichloroethene	20	ND
1,1-Dichloroethane	20	ND
2-Butanone	200	ND
Chloroform	100	ND
1,1,1-Trichloroethane	10	ND
Carbon Tetrachloride	10	ND
1,2-Dichloroethane	10	ND
Benzene	10	ND
Trichloroethene	10	ND
1,2-Dichloropropane	10	ND
Bromodichloromethane	10	ND



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REF.#: 67,466

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
4-Methyl-2-Pentanone	100	ND
cis-1,3-Dichloropropene	10	ND
Toluene	20	ND
trans-1,3-Dichloropropene	10	ND
1,1,2-Trichloroethane	20	ND
2-Hexanone	100	ND
Tetrachloroethene	20	ND
Dibromochloromethane	20	ND
Chlorobenzene	20	ND
Ethyl Benzene	10	ND
Total Xylenes	30	44.0
Styrene	10	ND
Bromoform	50	ND
1,1,2,2-Tetrachloroethane	10	ND
1,3 Dichlorobenzene	20	ND
1,4 Dichlorobenzene	20	ND
1,2 Dichlorobenzene	20	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

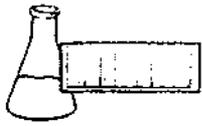
ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethane-d4 : 89.%
Toluene-d8 : 103.%
4-Bromofluorobenzene : 103.%

PERCENT SOLIDS: 86.%

NOTES:

1 None detected



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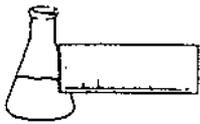
LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/140-140A
Analysis: EPA Method 8240
Reference #: 67,466
Station I.D.: Composite Soil Oil
Unidentified Peaks: >10
Project Code: HNVN1325

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of aliphatic hydrocarbons, PAHs and alkylated benzenes ranging from 50 - 500 ug/kg.

Reviewed by _____



LABORATORY REPORT

EPA METHOD 8240 SOIL MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 18, 1994
DATE SAMPLED: November 8, 1994
DATE RECEIVED: November 10, 1994
ANALYSIS DATE: November 16, 1994

PROJECT CODE: HNVN1325
REF.#: 67,467
STATION: Floor Drain #4
TIME SAMPLED: 16:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Detection Limit (ug/kg)¹</u>	<u>Concentration As Received(ug/kg)</u>
Dichlorodifluoromethane	1000	ND ²
Chloromethane	1000	ND
Vinyl Chloride	1000	ND
Bromomethane	500	ND
Chloroethane	500	ND
Trichlorofluoromethane	200	ND
Acetone	5000	ND
1,1-Dichloroethene	200	ND
Methylene Chloride	2000	ND
Carbon Disulfide	100	ND
MTBE	300	ND
trans-1,2-Dichloroethene	200	ND
1,1-Dichloroethane	200	ND
2-Butanone	2000	ND
Chloroform	1000	ND
1,1,1-Trichloroethane	100	ND
Carbon Tetrachloride	100	ND
1,2-Dichloroethane	100	ND
Benzene	100	ND
Trichloroethene	100	ND
1,2-Dichloropropane	100	ND
Bromodichloromethane	100	ND



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REF.#: 67,467

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
4-Methyl-2-Pentanone	1000	ND
cis-1,3-Dichloropropene	100	ND
Toluene	200	260.
trans-1,3-Dichloropropene	100	ND
1,1,2-Trichloroethane	200	ND
2-Hexanone	1000	ND
Tetrachloroethene	200	669.
Dibromochloromethane	200	ND
Chlorobenzene	200	ND
Ethyl Benzene	100	403.
Total Xylenes	300	3,260.
Styrene	100	ND
Bromoform	500	ND
1,1,2,2-Tetrachloroethane	100	ND
1,3 Dichlorobenzene	200	ND
1,4 Dichlorobenzene	200	ND
1,2 Dichlorobenzene	200	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

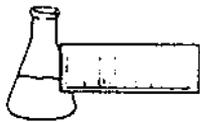
ANALYTICAL SURROGATE RECOVERY:

- 1,2-Dichloroethane-d4 : 94.%
- Toluene-d8 : 97.%
- 4-Bromofluorobenzene : 101.%

PERCENT SOLIDS: 45.%

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 10% dilution.
- 2 None detected



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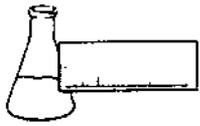
LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/140-140A
Analysis: EPA Method 8240
Reference #: 67,467
Station I.D.: Floor Drain #4
Unidentified Peaks: >10
Project Code: HNVN1325

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of aliphatic hydrocarbons, PAHs and alkylated benzenes ranging from 500 - 2500 ug/kg.

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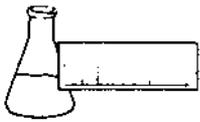
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LABORATORY REPORT
EPA METHOD 8240 SOIL MATRIX

 CLIENT: Wagner, Heindel, and Noyes, Inc.
 PROJECT NAME: VNB/140-140A
 REPORT DATE: November 18, 1994
 DATE SAMPLED: November 8, 1994
 DATE RECEIVED: November 10, 1994
 ANALYSIS DATE: November 16, 1994

 PROJECT CODE: HNVN1325
 REF.#: 67,468
 STATION: Floor Drain #1
 TIME SAMPLED: 15:00
 SAMPLER: C. Massey

<u>Parameter</u>	<u>Detection Limit (ug/kg)¹</u>	<u>Concentration As Received(ug/kg)</u>
Dichlorodifluoromethane	1000	ND ²
Chloromethane	1000	ND
Vinyl Chloride	1000	ND
Bromomethane	500	ND
Chloroethane	500	ND
Trichlorofluoromethane	200	ND
Acetone	5000	ND
1,1-Dichloroethene	200	ND
Methylene Chloride	2000	ND
Carbon Disulfide	100	ND
MTBE	300	ND
trans-1,2-Dichloroethene	200	ND
1,1-Dichloroethane	200	ND
2-Butanone	2000	ND
Chloroform	1000	ND
1,1,1-Trichloroethane	100	1,150.
Carbon Tetrachloride	100	ND
1,2-Dichloroethane	100	ND
Benzene	100	374.
Trichloroethene	100	167.
1,2-Dichloropropane	100	ND
Bromodichloromethane	100	ND



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REF.#: 67,468

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
4-Methyl-2-Pentanone	1000	ND
cis-1,3-Dichloropropene	100	ND
Toluene	200	7,910.
trans-1,3-Dichloropropene	100	ND
1,1,2-Trichloroethane	200	ND
2-Hexanone	1000	ND
Tetrachloroethene	200	3,610.
Dibromochloromethane	200	ND
Chlorobenzene	200	ND
Ethyl Benzene	100	7,650.
Total Xylenes	300	40,300.
Styrene	100	ND
Bromoform	500	ND
1,1,2,2-Tetrachloroethane	100	ND
1,3 Dichlorobenzene	200	ND
1,4 Dichlorobenzene	200	ND
1,2 Dichlorobenzene	200	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethane-d4 : 90.0%
Toluene-d8 : 97.0%
4-Bromofluorobenzene : 102.0%

PERCENT SOLIDS: IS³

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 10% dilution.
- 2 None detected
- 3 Insufficient Sample



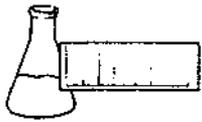
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LABORATORY REPORT
CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/140-140A
Analysis: EPA Method 8240
Reference #: 67,468
Station I.D.: Floor Drain #1
Unidentified Peaks: >10
Project Code: HNVN1325

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of aliphatic hydrocarbons, PAHs and alkylated benzenes ranging from 200 - 2500 ug/kg.

Reviewed by  _____



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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave.
DATE REPORTED: November 17, 1994
DATE SAMPLED: November 8-9, 1994
REVISED REPORT: November 22, 1994

PROJECT CODE: HNVN1326
REF. #: 67,469 - 67,472

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody did not indicate sample preservation.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

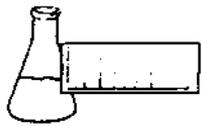
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT
EPA METHOD 8100 BY GC/MS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave.
REPORT DATE: November 17, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: November 10, 1994
DATE EXTRACTED: November 14, 1994
REVISED REPORT: November 22, 1994

PROJECT CODE: HNVN1326
ANALYSIS DATE: November 17, 1994
STATION: Composite Fire Debris
REF. #: 67,469
TIME SAMPLED: 13:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Quantitation Limit (ug/kg)</u>	<u>Concentration as received(ug/kg)</u>
Acenaphthene	50	ND ¹
Acenaphthylene	50	ND
Anthracene	50	ND
Benzo(a)anthracene	50	TBQ ²
Benzo(b,k)fluoranthene	50	77.4
Benzo(a)pyrene	50	46.0
Benzo(g,h,i)perylene	50	64.6
Chrysene	50	TBQ
Dibenzo(a,h)anthracene	50	ND
Dibenz(a,j)acridine	50	ND
7,12-Dimethylbenz(a)anthracene	50	ND
Fluoranthene	50	58.8
Fluorene	50	ND
Indeno(1,2,3-cd)pyrene	50	55.8
3-Methylcholanthrene	50	ND
2-Methylnaphthalene	50	ND
Naphthalene	50	ND
Phenanthrene	50	ND
Pyrene	50	58.6

NUMBER OF UNIDENTIFIED PEAKS: >10

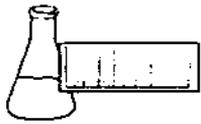
Analytical Surrogate Recovery:

Nitrobenzene-d 5:	59.0%
2-Fluorobiphenyl:	48.0%
Terphenyl-d 14:	48.0%

PERCENT SOLIDS: 82.0%

NOTES:

- 1 None detected
- 2 Trace below quantitation limit



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Laboratory Services

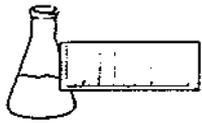
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LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/140-140A Riverside Ave.
Analysis: 8100
Reference #: 67,469
Station I.D.: Composite Fire Debris
Unidentified Peaks: >10
Project Code: HNVN1326

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of a few alkylated PAHs and many aliphatic hydrocarbons ranging in concentration from 50 to 1,000 ppb.



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LABORATORY REPORT EPA METHOD 8100 BY GC/MS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave.
REPORT DATE: November 17, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: November 10, 1994
DATE EXTRACTED: November 14, 1994
REVISED REPORT: November 22, 1994

PROJECT CODE: HNVN1326
ANALYSIS DATE: November 17, 1994
STATION: Composite Soil Oil
REF. #: 67,470
TIME SAMPLED: 11:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Quantitation</u> <u>Limit (ug/kg)¹</u>	<u>Concentration</u> <u>as received(ug/kg)</u>
Acenaphthene	120	ND ²
Acenaphthylene	120	ND
Anthracene	120	ND
Benzo(a)anthracene	120	ND
Benzo(b,k)fluoranthene	120	158.
Benzo(a)pyrene	120	TBQ ³
Benzo(g,h,i)perylene	120	ND
Chrysene	120	ND
Dibenzo(a,h)anthracene	120	ND
Dibenz(a,j)acridine	120	ND
7,12-Dimethylbenz(a)anthracene	120	ND
Fluoranthene	120	ND
Fluorene	120	ND
Indeno(1,2,3-cd)pyrene	120	ND
3-Methylcholanthrene	120	ND
2-Methylnaphthalene	120	ND
Naphthalene	120	ND
Phenanthrene	120	ND
Pyrene	120	327.

NUMBER OF UNIDENTIFIED PEAKS: >10

Analytical Surrogate Recovery:

Nitrobenzene-d 5:	NR ⁴
2-Fluorobiphenyl:	NR
Terphenyl-d 14:	NR

PERCENT SOLIDS: 86.0%

NOTES:

- 1 Detection limit was raised due to high levels of non-target contaminants.
- 2 None detected
- 3 Trace below quantitation limit
- 4 Not Reported. Surrogates diluted out of analytical range.



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LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/140-140A Riverside Ave.
Analysis: 8100
Reference #: 67,470
Station I.D.: Composite Soil Oil
Unidentified Peaks: >10
Project Code: HNVN1326

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of a few alkylated PAHs and many aliphatic hydrocarbons ranging in concentration from 100 to 50,000 ppb.



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LABORATORY REPORT
EPA METHOD 8100 BY GC/MS

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT CODE: HNVN1326
PROJECT NAME: VNB/140-140A Riverside Ave. ANALYSIS DATE: November 17, 1994
REPORT DATE: November 17, 1994 STATION: Floor Drain #4
DATE SAMPLED: November 8, 1994 REF. #: 67,471
DATE RECEIVED: November 10, 1994 TIME SAMPLED: 16:00
DATE EXTRACTED: November 14, 1994 SAMPLER: C. Massey
REVISED REPORT: November 22, 1994

<u>Parameter</u>	<u>Quantitation</u> <u>Limit (ug/kg)¹</u>	<u>Concentration</u> <u>as received(ug/kg)</u>
Acenaphthene	1000	ND ²
Acenaphthylene	1000	ND
Anthracene	1000	ND
Benzo(a)anthracene	1000	ND
Benzo(b,k)fluoranthene	1000	ND
Benzo(a)pyrene	1000	ND
Benzo(g,h,i)perylene	1000	ND
Chrysene	1000	ND
Dibenzo(a,h)anthracene	1000	ND
Dibenz(a,j)acridine	1000	ND
7,12-Dimethylbenz(a)anthracene	1000	ND
Fluoranthene	1000	ND
Fluorene	1000	ND
Indeno(1,2,3-cd)pyrene	1000	ND
3-Methylcholanthrene	1000	ND
2-Methylnaphthalene	1000	ND
Naphthalene	1000	ND
Phenanthrene	1000	ND
Pyrene	1000	ND

NUMBER OF UNIDENTIFIED PEAKS: >10

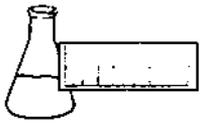
Analytical Surrogate Recovery:

Nitrobenzene-d 5: NR³
2-Fluorobiphenyl: NR
Terphenyl-d 14: NR

PERCENT SOLIDS: 45.0%

NOTES:

- 1 Detection limit was raised due to high levels of non-target contaminants.
- 2 None detected
- 3 Not Reported. Surrogates diluted out of analytical range.



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Laboratory Services

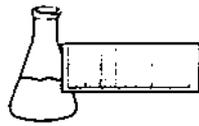
32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/140-140A Riverside Ave.
Analysis: 8100
Reference #: 67,471
Station I.D.: Floor Drain #4
Unidentified Peaks: >10
Project Code: HNVN1326

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of a few alkylated PAHs and many aliphatic hydrocarbons ranging in concentration from 1,000 to 20,000 ppb.



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LABORATORY REPORT
EPA METHOD 8100 BY GC/MS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave.
REPORT DATE: November 17, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: November 10, 1994
DATE EXTRACTED: November 14, 1994
REVISED REPORT: November 22, 1994

PROJECT CODE: HNVN1326
ANALYSIS DATE: November 17, 1994
STATION: Floor Drain #1
REF. #: 67,472
TIME SAMPLED: 15:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Quantitation</u> <u>Limit (ug/kg)¹</u>	<u>Concentration</u> <u>as received(ug/kg)</u>
Acenaphthene	4000	ND ²
Acenaphthylene	4000	ND
Anthracene	4000	ND
Benzo(a)anthracene	4000	ND
Benzo(b,k)fluoranthene	4000	ND
Benzo(a)pyrene	4000	ND
Benzo(g,h,i)perylene	4000	ND
Chrysene	4000	ND
Dibenzo(a,h)anthracene	4000	ND
Dibenz(a,j)acridine	4000	ND
7,12-Dimethylbenz(a)anthracene	4000	ND
Fluoranthene	4000	ND
Fluorene	4000	ND
Indeno(1,2,3-cd)pyrene	4000	ND
3-Methylcholanthrene	4000	ND
2-Methylnaphthalene	4000	95,100.
Naphthalene	4000	107,000.
Phenanthrene	4000	ND
Pyrene	4000	ND

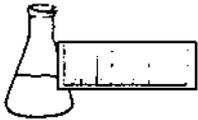
NUMBER OF UNIDENTIFIED PEAKS: >10

Analytical Surrogate Recovery:
Nitrobenzene-d 5: NR³
2-Fluorobiphenyl: NR
Terphenyl-d 14: NR

PERCENT SOLIDS: IS⁴

NOTES:

- 1 Detection limit was raised due to high levels of non-target contaminants.
- 2 None detected
- 3 Not Reported. Surrogates diluted out of analytical range.
- 4 Insufficient Sample



ENDYNE, INC.

Laboratory Services

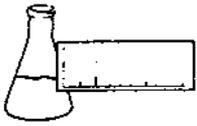
32 James Brown Drive
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(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/140-140A Riverside Ave.
Analysis: 8100
Reference #: 67,472
Station I.D.: Floor Drain #1
Unidentified Peaks: >10
Project Code: HNVN1326

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of a few alkylated PAHs and many aliphatic hydrocarbons ranging in concentration from 700 to 50,000 ppb.



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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel & Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave.
DATE REPORTED: November 17, 1994
DATE SAMPLED: November 8-9, 1994

PROJECT CODE: HNVDN1327
REF. #: 67,473 - 67,476

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody did not indicate sample preservation.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

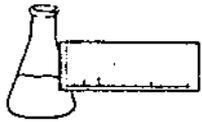
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT

EPA METHOD 8080 -- AROCHLORS (SOIL)

CLIENT: Wagner, Heindel & Noyes, Inc.

PROJECT NAME: VNB/140-140A Riverside Ave. PROJECT CODE: HNVN1327

REPORT DATE: November 17, 1994

ANALYSIS DATE: November 17, 1994

SAMPLER: C. Massey

STATION: Composite Fire Debris

DATE SAMPLED: November 9, 1994

REF. #: 67,473

DATE RECEIVED: November 10, 1994

TIME SAMPLED: 13:00

DATE EXTRACTED: November 14, 1994

<u>Parameter</u>	<u>Detection Limit (ug/kg)¹</u>	<u>Concentration (ug/kg) as received</u>
Arochlor-1016	80	ND ²
Arochlor-1221	80	ND
Arochlor-1232	80	ND
Arochlor-1242	80	ND
Arochlor-1248	80	ND
Arochlor-1254	80	ND
Arochlor-1260	80	ND
Unspecified PCB	80	ND

PERCENT SOLIDS: 82.%

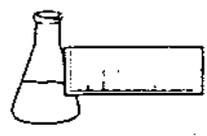
Analytical Surrogate Recovery:

Dibutylchloroendate: 86.%

Octachloronapthalene: 87.%

NOTES:

- 1 Detection limit raised due to high levels of non-target contaminants.
- 2 None detected



ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT

EPA METHOD 8080 -- AROCHLORS (SOIL)

CLIENT: Wagner, Heindel & Noyes, Inc.

PROJECT NAME: VNB/140-140A Riverside Ave. PROJECT CODE: HNVN1327

REPORT DATE: November 17, 1994

ANALYSIS DATE: November 17, 1994

SAMPLER: C. Massey

STATION: Composite Soil Oil

DATE SAMPLED: November 9, 1994

REF. #: 67,474

DATE RECEIVED: November 10, 1994

TIME SAMPLED: 11:00

DATE EXTRACTED: November 14, 1994

<u>Parameter</u>	<u>Detection Limit (ug/kg)¹</u>	<u>Concentration (ug/kg) as received</u>
Arochlor-1016	300	ND ²
Arochlor-1221	300	ND
Arochlor-1232	300	ND
Arochlor-1242	300	ND
Arochlor-1248	300	ND
Arochlor-1254	300	ND
Arochlor-1260	300	ND
Unspecified PCB	300	ND

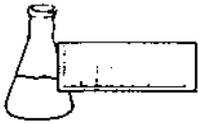
PERCENT SOLIDS: 86.%

Analytical Surrogate Recovery:

Dibutylchloroendate: 62.0%
Octachloronapthalene: 62.0%

NOTES:

- 1 Detection limit raised due to high levels of non-target contaminants.
- 2 None detected



ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT

EPA METHOD 8080 -- AROCHLORS (SOIL)

CLIENT: Wagner, Heindel & Noyes, Inc.	
PROJECT NAME: VNB/140-140A Riverside Ave.	PROJECT CODE: HNVN1327
REPORT DATE: November 17, 1994	ANALYSIS DATE: November 17, 1994
SAMPLER: C. Massey	STATION: Floor Drain #4
DATE SAMPLED: November 8, 1994	REF. #: 67,475
DATE RECEIVED: November 10, 1994	TIME SAMPLED: 16:00
DATE EXTRACTED: November 14, 1994	

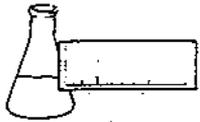
<u>Parameter</u>	<u>Detection Limit (ug/kg)¹</u>	<u>Concentration (ug/kg) as received</u>
Arochlor-1016	3000	ND ²
Arochlor-1221	3000	ND
Arochlor-1232	3000	ND
Arochlor-1242	3000	ND
Arochlor-1248	3000	ND
Arochlor-1254	3000	ND
Arochlor-1260	3000	ND
Unspecified PCB	3000	ND

PERCENT SOLIDS: 45.%

Analytical Surrogate Recovery:	Dibutylchloroendate:	NR ³
	Octachloronaphthalene:	NR

NOTES:

- 1 Detection limit raised due to high levels of non-target contaminants.
- 2 None detected
- 3 None Reported. Surrogates diluted out of analytical range.



LABORATORY REPORT
EPA METHOD 8080 -- AROCHLORS (SOIL)

CLIENT: Wagner, Heindel & Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave. PROJECT CODE: HNVN1327
REPORT DATE: November 17, 1994 ANALYSIS DATE: November 17, 1994
SAMPLER: C. Massey STATION: Floor Drain #1
DATE SAMPLED: November 8, 1994 REF. #: 67,476
DATE RECEIVED: November 10, 1994 TIME SAMPLED: 15:00
DATE EXTRACTED: November 14, 1994

<u>Parameter</u>	<u>Detection Limit (ug/kg)¹</u>	<u>Concentration (ug/kg) as received</u>
Arochlor-1016	6000	ND ²
Arochlor-1221	6000	ND
Arochlor-1232	6000	ND
Arochlor-1242	6000	ND
Arochlor-1248	6000	ND
Arochlor-1254	6000	ND
Arochlor-1260	6000	ND
Unspecified PCB	6000	ND

PERCENT SOLIDS: IS⁴

Analytical Surrogate Recovery: Dibutylchloroendate: NR³
Octachloronaphthalene: NR

NOTES:

- 1 Detection limit raised due to high levels of non-target contaminants.
- 2 None detected
- 3 None Reported. Surrogates diluted out of analytical range.
- 4 Insufficient sample

Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 21, 1994
DATE SAMPLED: November 9, 1994

PROJECT CODE: HNVN3328
REF.#: 67,477 - 67,478

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Samples were not preserved.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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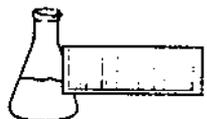
LABORATORY REPORT

CLIENT: Wagner, Heindel, and Noyes, Inc.
 PROJECT NAME: VNB/140-140A
 REPORT DATE: November 21, 1994
 DATE SAMPLED: November 9, 1994
 DATE RECEIVED: November 11, 1994

PROJECT CODE: HNVN3328
 REF. #: 67,477
 STATION: Composite Fine Debris
 TIME SAMPLED: 13:00
 SAMPLER: C. Massey

Digestion was performed by EPA Method 3050.

<u>Parameter</u>	<u>Concentration</u> <u>(mg/kg, dry wt.)</u>	<u>Reporting Limit</u> <u>(mg/kg, dry wt.)</u>	<u>EPA Method</u>	<u>Analysis Date</u>
Total Lead	75.7	0.154	7421	11/18/94



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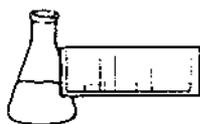
METALS LABORATORY REPORT

DUPLICATE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 21, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: November 11, 1994

PROJECT CODE: HNVN3328
REF. #: 67,477
STATION: Composite Fine Debris
TIME SAMPLED: 13:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Dup 1</u> <u>(mg/kg)</u>	<u>Dup 2</u> <u>(mg/kg)</u>	<u>Avg. % Diff.</u>
Total Lead	86.0	65.4	14.

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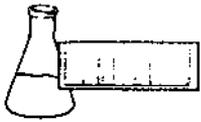
LABORATORY REPORT

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 21, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: November 11, 1994

PROJECT CODE: HNVN3328
REF. #: 67,478
STATION: Composite Soil Oil
TIME SAMPLED: 11:00
SAMPLER: C. Massey

Digestion was performed by EPA Method 3050.

<u>Parameter</u>	<u>Concentration</u> (mg/kg, dry wt.)	<u>Reporting Limit</u> (mg/kg, dry wt.)	<u>EPA Method</u>	<u>Analysis Date</u>
Total Lead	59.6	0.127	7421	11/18/94



METALS LABORATORY REPORT

SPIKE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 21, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: November 11, 1994

PROJECT CODE: HNVN3328
REF. #: 67,478
STATION: Composite Soil Oil
TIME SAMPLED: 11:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L)</u>	<u>Spike</u> <u>(mg/L)</u>	<u>% Rec.</u>
Total Lead	0.940	0.100	80.0



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Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY RECORD

RUSH!

09227

Due 11/17/94

Project Name: VNB/40-140A	Reporting Address: W4N	Billing Address: W4N
Site Location: Riverside Ave, Burlington	Company: W4N	Sampler Name: C MASSEY
Endyne Project Number: 171103325	Contact Name/Phone #: C Massey	Phone #:

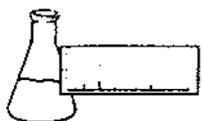
Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
67477	Composite Fine Debris	soil		X	11/9/94 13:00	2x 250ml 2x 40ml			25, 30, 28, 16		58
67478	Composite Soil Oil	soil		X	11/9/94 11:00	2x 250ml 2x 40ml			25, 30, 28, 16		58
	Floor Drain #4	sludge	X		11/8/94 16:00	1x 250ml			25, 30, 28		58
	Floor Drain #1	sludge	X		11/8/94 15:00	2x 40ml			25, 30, 28		58
	Trap A and Trap B				HOLD	HOLD (4x 40ml each)					

Relinquished by: Signature <i>C Massey</i>	Received by: Signature <i>[Signature]</i>	Date/Time 11/10/94
Relinquished by: Signature	Received by: Signature	Date/Time

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify) (Pb)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pests/PCB <i>Early</i>
4	Nitrite N	9	BOD ₅	14	Turbidity	19	BTEX	24	EPA 608 Pests/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8210		
29	TC1.P (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										

ROUND 2 SAMPLING



ENDYNE, INC.

Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A/Riverside Ave.
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994

PROJECT CODE: HNVN1356
REF. #: 67,576 - 67,577

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Chain of custody indicated the water sample was preserved with Sodium Azide.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method.

Blank contamination was not observed at levels affecting the analytical results.

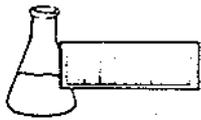
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT

EPA METHOD 8240 SOIL MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A/Riverside Ave.
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994
ANALYSIS DATE: November 22, 1994

PROJECT CODE: HNVN1356
REF.#: 67,576
STATION: Composite Soil "Drain"
TIME SAMPLED: 14:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
Dichlorodifluoromethane	100	ND ¹
Chloromethane	100	ND
Vinyl Chloride	100	ND
Bromomethane	50	ND
Chloroethane	50	ND
Trichlorofluoromethane	20	ND
Acetone	500	ND
1,1-Dichloroethene	20	ND
Methylene Chloride	200	ND
Carbon Disulfide	10	ND
MTBE	30	ND
trans-1,2-Dichloroethene	20	ND
1,1-Dichloroethane	20	ND
2-Butanone	200	ND
Chloroform	100	ND
1,1,1-Trichloroethane	10	ND
Carbon Tetrachloride	10	ND
1,2-Dichloroethane	10	ND
Benzene	10	ND
Trichloroethene	10	ND
1,2-Dichloropropane	10	ND
Bromodichloromethane	10	ND



Laboratory Services

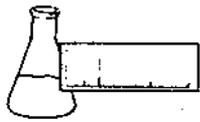
32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORTEPA METHOD 8240 WATER MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A/Riverside Ave.
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994
ANALYSIS DATE: November 22, 1994

PROJECT CODE: HNVN1356
REF.#: 67,577
STATION: Monitoring Well-1
TIME SAMPLED: 15:15
SAMPLER: C. Massey

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Dichlorodifluoromethane	10	ND ¹
Chloromethane	10	ND
Vinyl Chloride	10	ND
Bromomethane	5	ND
Chloroethane	5	ND
Trichlorofluoromethane	2	ND
Acetone	50	ND
1,1-Dichloroethene	2	ND
Methylene Chloride	20	ND
Carbon Disulfide	7	ND
MTBE	3	6.1
trans-1,2-Dichloroethene	2	ND
1,1-Dichloroethane	2	ND
2-Butanone	20	ND
Chloroform	10	ND
1,1,1-Trichloroethane	1	ND
Carbon Tetrachloride	1	ND
1,2-Dichloroethane	1	ND
Benzene	1	15.1
Trichloroethene	1	ND
1,2-Dichloropropane	1	ND
Bromodichloromethane	1	ND



REF.#: 67,577

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
4-Methyl-2-Pentanone	10	ND
cis-1,3-Dichloropropene	1	ND
Toluene	2	ND
trans-1,3-Dichloropropene	1	ND
1,1,2-Trichloroethane	2	ND
2-Hexanone	10	ND
Tetrachloroethene	2	ND
Dibromochloromethane	2	ND
Chlorobenzene	2	ND
Ethyl Benzene	1	TBQ ²
Total Xylenes	3	3.2
Styrene	1	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	1	ND
1,3 Dichlorobenzene	2	ND
1,4 Dichlorobenzene	2	ND
1,2 Dichlorobenzene	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethane-d4 : 95.%
Toluene-d8 : 104.%
4-Bromofluorobenzene : 107.%

NOTES:

- 1 None detected
- 2 Trace below quantitation limit



Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave
DATE REPORTED: November 30, 1994
DATE SAMPLED: November 15, 1994

PROJECT CODE: HNVN1358
REF. #: 67,580 - 67,581

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody did not indicate sample preservation.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

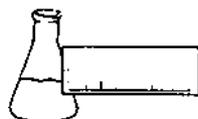
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by, 

Harry B. Locker, Ph.D.
Laboratory Director

enclosures



LABORATORY REPORT
EPA METHOD 8100 BY GC/MS

CLIENT: Wagner, Heindel, and Noyes, Inc.	PROJECT CODE: HNVN1358
PROJECT NAME: VNB/140-140A Riverside Ave	ANALYSIS DATE: Novemer 28, 1994
REPORT DATE: November 30, 1994	STATION: Composite Soil "Drain"
DATE SAMPLED: November 15, 1994	REF. #:67,580
DATE RECEIVED: November 15, 1994	TIME SAMPLED: 14:00
DATE EXTRACTED: November 21, 1994	SAMPLER: C. Massey

<u>Parameter</u>	<u>Quantitation</u> <u>Limit (ug/kg)</u>	<u>Concentration</u> <u>as received(ug/kg)</u>
Acenaphthene	50	ND ¹
Acenaphthylene	50	ND
Anthracene	50	ND
Benzo(a)anthracene	50	ND
Benzo(b,k)fluoranthene	50	ND
Benzo(a)pyrene	50	ND
Benzo(g,h,i)perylene	50	ND
Chrysene	50	ND
Dibenzo(a,h)anthracene	50	ND
Dibenz(a,j)acridine	50	ND
7,12-Dimethylbenz(a)anthracene	50	ND
Fluoranthene	50	ND
Fluorene	50	ND
Indeno(1,2,3-cd)pyrene	50	ND
3-Methylcholanthrene	50	ND
2-Methylnaphthalene	50	ND
Naphthalene	50	ND
Phenanthrene	50	ND
Pyrene	50	ND

NUMBER OF UNIDENTIFIED PEAKS: 5

Analytical Surrogate Recovery:

Nitrobenzene-d 5:	42.0%
2-Fluorobiphenyl:	66.0%
Terphenyl-d 14:	92.0%

PERCENT SOLIDS: 79.0%

NOTES:

1 None detected



Laboratory Services

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LABORATORY REPORT
EPA METHOD 610 BY GC/MS

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT CODE: HNVN1358
PROJECT NAME: VNB/140-140A Riverside Ave ANALYSIS DATE: November 28, 1994
REPORT DATE: November 30, 1994 STATION: MW-1
DATE SAMPLED: November 15, 1994 REF. #:67,581
DATE RECEIVED: November 15, 1994 TIME SAMPLED: 16:30
DATE EXTRACTED: November 21, 1994 SAMPLER: C. Massey

<u>Parameter</u>	<u>Quantitation Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Acenaphthene	2	ND ¹
Acenaphthylene	2	ND
Anthracene	2	ND
Benzo(a)anthracene	2	2.1
Benzo(b,k)fluoranthene	2	4.5
Benzo(a)pyrene	2	2.8
Benzo(ghi)perylene	2	3.3
Chrysene	2	2.3
Dibenzo(a,h)anthracene	2	ND
Dibenz(a,j)acridine	2	ND
7,12-Dimethylbenz(a)anthracene	2	ND
Fluoranthene	2	6.0
Fluorene	2	ND
Indeno(1,2,3-cd)pyrene	2	3.0
3-Methylcholanthrene	2	ND
2-Methylnaphthalene	2	ND
Naphthalene	2	ND
Phenanthrene	2	2.6
Pyrene	2	4.9

NUMBER OF UNIDENTIFIED PEAKS: >10

Analytical Surrogate Recovery:

Nitrobenzene-d 5:	5.% ²
2-Fluorobiphenyl:	5.% ²
Terphenyl-d 14:	7.% ²

NOTES:

- 1 None detected
- 2 Surrogates not within laboratory QA/QC parameters.



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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave
DATE REPORTED: November 29, 1994
DATE SAMPLED: November 15, 1994

PROJECT CODE: HNVN1359
REF. #: 67,582 - 67,583

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody did not indicate sample preservation.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

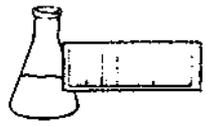
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT

EPA METHOD 8080 -- AROCHLORS (SOIL)

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave
REPORT DATE: November 29, 1994
SAMPLER: C. Massey
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994
DATE EXTRACTED: November 21, 1994

PROJECT CODE: HNVN1359
ANALYSIS DATE: November 28, 1994
STATION: Composite Soil Drain
REF. #: 67,582
TIME SAMPLED: 14:00

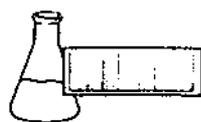
<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration (ug/kg) as received</u>
Arochlor-1016	40	ND ¹
Arochlor-1221	40	ND
Arochlor-1232	40	ND
Arochlor-1242	40	ND
Arochlor-1248	40	ND
Arochlor-1254	40	ND
Arochlor-1260	40	ND
Unspecified PCB	40	ND

PERCENT SOLIDS: 79.0%

Analytical Surrogate Recovery:
Dibutylchloroendate: 50.0%
Octachloronapthalene: 56.0%

NOTES:

1 None detected



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LABORATORY REPORT

EPA METHOD 8080 -- AROCHLORS (WATER)

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A Riverside Ave
REPORT DATE: November 29, 1994
SAMPLER: C. Massey
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994
DATE EXTRACTED: November 21, 1994

PROJECT CODE: HNVN1359
ANALYSIS DATE: November 28, 1994
STATION: MW-1
REF. #: 67,583
TIME SAMPLED: 14:40

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L) as received</u>
- Arochlor-1016	2	ND ¹
Arochlor-1221	2	ND
Arochlor-1232	2	ND
Arochlor-1242	2	ND
Arochlor-1248	2	ND
Arochlor-1254	2	ND
Arochlor-1260	2	ND
Unspecified PCB	2	ND

Analytical Surrogate Recovery:
Dibutylchloroendate: 76.0%
Octachloronapthalene: 83.0%

NOTES:

1 None detected



REF #: 69,524

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<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
1,2,3-Trichlorobenzene	2	ND
1,2,4-Trichlorobenzene	2	ND
1,1,1-Trichloroethane	2	ND
1,1,2-Trichloroethane	2	ND
Trichloroethene	2	ND
Trichlorofluoromethane	2	ND
1,2,3-Trichloropropane	2	ND
1,2,4-Trimethylbenzene	2	ND
1,3,5-Trimethylbenzene	2	ND
Vinyl chloride	10	ND
Total Xylenes	2	ND
MTBE	5	ND

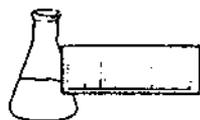
NUMBER OF UNIDENTIFIED PEAKS: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane: 116.%
Toluene-d8: 110.%
4-Bromofluorobenzene: 112.%

Notes:

- 1 None detected
- 2 Trace below quantitation limit



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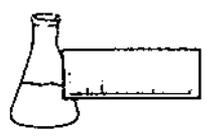
LABORATORY REPORT

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994

PROJECT CODE: HNVN3357
REF. #: 67,578
STATION: Composite Soil "Drain"
TIME SAMPLED: 14:00
SAMPLER: C. Massey

Digestion was performed by EPA Method 3050.

<u>Parameter</u>	<u>Concentration</u> (mg/kg, dry wt.)	<u>Reporting Limit</u> (mg/kg, dry wt.)	<u>EPA Method</u>	<u>Analysis Date</u>
Total Lead	10.0	0.165	7421	11/22/94



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METALS LABORATORY REPORT

DUPLICATE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994

PROJECT CODE: HNVN3357
REF. #: 67,578
STATION: Composite Soil "Drain"
TIME SAMPLED: 14:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Dup 1</u> <u>(mg/kg)</u>	<u>Dup 2</u> <u>(mg/kg)</u>	<u>Avg. % Diff.</u>
Total Lead	8.79	11.3	13.



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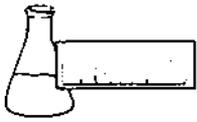
METALS LABORATORY REPORT

SPIKE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994

PROJECT CODE: HNVN3357
REF. #: 67,578
STATION: Composite Soil "Drain"
TIME SAMPLED: 14:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L)</u>	<u>Spike</u> <u>(mg/L)</u>	<u>% Rec.</u>
Total Lead	0.124	0.020	70.0



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Laboratory Services

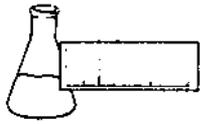
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LABORATORY REPORT

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994

PROJECT CODE: HNVN3357
REF. #: 67,579
STATION: Monitoring Well-1 (MW-1)
TIME SAMPLED: 14:55
SAMPLER: C. Massey

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L)</u>	<u>Reporting Limit</u> <u>(mg/L)</u>	<u>EPA Method</u>	<u>Analysis Date</u>
Dissolved Lead	0.139	0.002	7421	11/22/94



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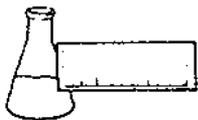
METALS LABORATORY REPORT

DUPLICATE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994

PROJECT CODE: HNVN3357
REF. #: 67,579
STATION: Monitoring Well-1 (MW-1)
TIME SAMPLED: 14:55
SAMPLER: C. Massey

<u>Parameter</u>	<u>Dup 1</u> <u>(mg/L)</u>	<u>Dup 2</u> <u>(mg/L)</u>	<u>Avg. % Diff.</u>
Dissolved Lead	0.143	0.135	3.



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METALS LABORATORY REPORT

SPIKE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: November 23, 1994
DATE SAMPLED: November 15, 1994
DATE RECEIVED: November 15, 1994

PROJECT CODE: HNVN3357
REF. #: 67,579
STATION: Monitoring Well-1 (MW-1)
TIME SAMPLED: 14:55
SAMPLER: C. Massey

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L)</u>	<u>Spike</u> <u>(mg/L)</u>	<u>% Rec.</u>
Dissolved Lead	0.135	0.010	70.0

CHAIN-OF-CUSTODY RECORD

12819

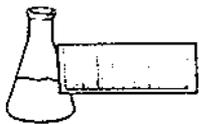
Project Name: VNB/140-140A	Reporting Address: W/N	Billing Address: W/N
Site Location: Riverside Ave	Company: W/N	Sampler Name: Chasey
Endyne Project Number: Burlington VT HNVN 3357	Contact Name/Phone #: Chasey	Phone #: Chasey

Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
67,578	Composite Soil "Drain"	soil	X	X	11/15/94 14:00	2	200ml amber		28, 30, 28, 16		NO
						2	40ml	for Pb ^{IVOC} analysis	25, 16		
67,579	Monitoring Well-1 (MW-1)	water	X		11/15/94						
					15:15	2	40ml glass		25		
					14:55	1	8oz plastic		16		
					14:40/16:30	2	1 liter amber		28, 30		
As per Christine Massey on 11-16-94 via phone @ 8:55am											

Relinquished by: Signature <i>Christine Massey</i>	Received by: Signature <i>Thomas M. Chambers</i>	Date/Time 11-15-94
Relinquished by: Signature	Received by: Signature	Date/Time

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify) Pb	21	EPA 624	26	EPA 8270 H/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pcs/PCB
4	Nitrite N	9	BOD ₅	14	Turbidity	19	BTEX	24	EPA 608 Pcs/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (): NO										



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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: December 16, 1994
DATE SAMPLED: November 9, 1994

PROJECT CODE: HNVN3667
REF.#: 68,691

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Samples were not preserved.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

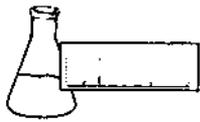
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: December 16, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: December 13, 1994

PROJECT CODE: HNVN3667
REF. #: 68,691
STATION: Composite Fire Debris
TIME SAMPLED: 13:00
SAMPLER: C. Massey

TCLP extraction was performed by EPA Method 1311.
Digestion was performed by EPA Method 3010/3020.

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L, ppm)</u>	<u>Reporting Limit</u> <u>(mg/L, ppm)</u>	<u>EPA Method</u>	<u>Analysis Date</u>
Lead	0.174	0.100	6010	12/15/94



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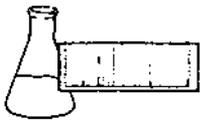
METALS LABORATORY REPORT

DUPLICATE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: December 16, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: December 13, 1994

PROJECT CODE: HNVN3667
REF. #: 68,691
STATION: Composite Fire Debris
TIME SAMPLED: 13:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Dup 1</u> <u>(mg/L)</u>	<u>Dup 2</u> <u>(mg/L)</u>	<u>Avg. % Diff.</u>
Lead	0.164	0.183	5.



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METALS LABORATORY REPORT

SPIKE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/140-140A
REPORT DATE: December 16, 1994
DATE SAMPLED: November 9, 1994
DATE RECEIVED: December 13, 1994

PROJECT CODE: HNVN3667
REF. #: 68,691
STATION: Composite Fire Debris
TIME SAMPLED: 13:00
SAMPLER: C. Massey

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L)</u>	<u>Spike</u> <u>(mg/L)</u>	<u>% Rec.</u>
Lead	0.164	0.500	103.

CHAIN-OF-CUSTODY RECORD

09221

Project Name: VNB/140-110A
 Site Location: Riverside Ave, Burlington
 Endyne Project Number: H20N 3667
 Reporting Address: W4N
 Billing Address: W4N
 Company: W4N
 Contact Name/Phone #: C Massey
 Sampler Name: C MASSEY
 Phone #:

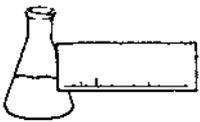
Lab #	Sample Location	Matrix	GRA	COMP	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
07422 08691	<u>Composite Fre Debris</u>	<u>Soil</u>			<u>11/9/94</u> <u>13:00</u>	<u>2x 250ml</u> <u>2x 40ml</u>		<u>TCLP Pb</u>	<u>25, 30, 28, 16</u>		<u>5day</u>
7478 08692	<u>Composite Soil</u>	<u>Soil</u>			<u>11/9/94</u> <u>11:00</u>	<u>2x 250ml</u> <u>2x 40ml</u>		<u>RUSH DUE FRI.</u>	<u>12/16</u>		<u>5day</u>
	<u>Floor Drain #4</u>	<u>Sludge</u>	<u>X</u>		<u>11/8/94</u> <u>16:00</u>	<u>1x 250ml</u>			<u>25, 30, 28</u>		<u>5day</u>
	<u>Floor Drain #1</u>	<u>Sludge</u>	<u>X</u>		<u>11/8/94</u> <u>15:00</u>	<u>2x 40ml</u>			<u>25, 30, 28</u>		<u>5day</u>
	<u>Trap A and Trap B</u>										

Inguished by: Signature [Signature] Received by: Signature [Signature] Date/Time 11/10/94
 Inguished by: Signature [Signature] Received by: Signature Al T Johnson Date/Time (11/16)

Requested Analyses 12/13/94

6	TKN	11	Total Solids	16	Metals (Specify <u>Pb</u>)	21	EPA 624	26	EPA 8270 B/N or Acid
7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 <u>Part PCB</u>
9	BOD ₅	14	Turbidity	19	BTEX	24	EPA 608 Post/PCB		
10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		

TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)
 Other (Specify): Sim, [unclear]



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Laboratory Services

A3-1

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave.
DATE REPORTED: January 9, 1995
DATE SAMPLED: December 23, 1994

PROJECT CODE: HNVN1789
REF. #: 69,099

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

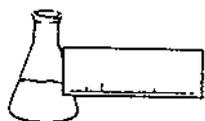
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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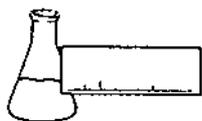
LABORATORY REPORT

EPA METHOD 8260 SOIL MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave
REPORT DATE: January 9, 1995
DATE SAMPLED: December 23, 1994
DATE RECEIVED: December 27, 1994
ANALYSIS DATE: January 6, 1995

PROJECT CODE: HNVN1789
REF #: 69,099
STATION: 140 Riverside Ave
TIME SAMPLED: 1600
SAMPLER: C. Massey

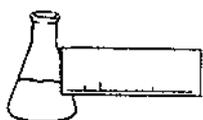
<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received (ug/kg)</u>
Benzene	20	ND ¹
Bromobenzene	20	ND
Bromochloromethane	20	ND
Bromodichloromethane	20	ND
Bromoform	20	ND
Bromomethane	50	ND
n-Butylbenzene	20	ND
sec-Butylbenzene	20	ND
Carbon tetrachloride	20	ND
Chlorobenzene	20	ND
Chloroethane	50	ND
Chloroform	50	ND
Chloromethane	100	ND
(2&4)Chlorotoluene	20	ND
Dibromochloromethane	20	ND
1,2-Dibromo-3-chloropropane	20	ND
1,2-Dibromoethane	20	ND
Dibromomethane	20	ND



REF #: 69,099

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<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received (ug/kg)</u>
1,2-Dichlorobenzene	20	ND
1,3-Dichlorobenzene	20	ND
1,4-Dichlorobenzene	20	ND
Dichlorodifluoromethane	100	ND
1,1-Dichloroethane	20	ND
1,2-Dichloroethane	20	ND
1,1-Dichloroethene	20	ND
cis-1,2-Dichloroethene	20	ND
trans-1,2-Dichloroethene	20	ND
1,2-Dichloropropane	20	ND
1,3-Dichloropropane	20	ND
2,2-Dichloropropane	20	ND
1,1-Dichloropropene	20	ND
Ethylbenzene	20	ND
Hexachlorobutadiene	20	ND
Isopropylbenzene	20	ND
p-Isopropyltoluene	20	ND
Methylene chloride	100	ND
Naphthalene	100	ND
n-Propylbenzene	20	ND
Styrene	20	ND
1,1,1,2-Tetrachloroethane	20	ND
1,1,2,2-Tetrachloroethane	20	ND
Tetrachloroethene	20	ND
Toluene	20	ND



REF #: 69,099

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<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received (ug/kg)</u>
1,2,3-Trichlorobenzene	20	ND
1,2,4-Trichlorobenzene	20	ND
1,1,1-Trichloroethane	20	ND
1,1,2-Trichloroethane	20	ND
Trichloroethene	20	ND
Trichlorofluoromethane	20	ND
1,2,3-Trichloropropane	20	ND
1,2,4-Trimethylbenzene	20	ND
1,3,5-Trimethylbenzene	20	ND
Vinyl chloride	100	ND
Total Xylenes	20	TBQ ²
MTBE	50	ND

NUMBER OF UNIDENTIFIED PEAKS: >10

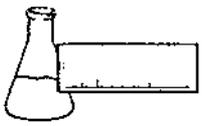
ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane: 92.%
Toluene-d8: 110.%
4-Bromofluorobenzene: 83.%

PERCENT SOLIDS: 83.%

Notes:

- 1 None detected
- 2 Trace below quantitation limit



ENDYNE, INC.

Laboratory Services

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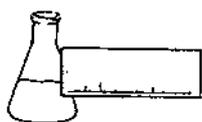
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FAX 879-7103

LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/Riverside Ave
Analysis: EPA Method 8260
Reference #: 69,099
Station I.D.: 140 Riverside Ave
Unidentified Peaks: >10
Project Code: HNVN1789

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of Aliphatic Hydrocarbons ranging in concentration from 50 - 250 ug/kg.



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Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, & Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave.
DATE REPORTED: January 6, 1995
DATE SAMPLED: December 23, 1993

PROJECT CODE: HNVN1790
REF. #: 69,100

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

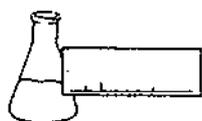
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT
EPA METHOD 8100 BY GC/MS

CLIENT: Wagner, Heindel, & Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave.
REPORT DATE: January 6, 1995
DATE SAMPLED: December 23, 1994
DATE RECEIVED: December 27, 1994
DATE EXTRACTED: December 30, 1994

PROJECT CODE: HNVN1790
ANALYSIS DATE: January 3, 1995
STATION: 140 Riverside Ave.
REF. #: 69,100
TIME SAMPLED: 1600
SAMPLER: C. Massey

<u>Parameter</u>	<u>Quantitation Limit (ug/kg)</u>	<u>Concentration as received(ug/kg)</u>
Acenaphthene	50	ND ¹
Acenaphthylene	50	ND
Anthracene	50	ND
Benzo(a)anthracene	50	ND
Benzo(b,k)fluoranthene	50	TBQ ²
Benzo(a)pyrene	50	ND
Benzo(g,h,i)perylene	50	TBQ
Chrysene	50	ND
Dibenzo(a,h)anthracene	50	ND
Dibenz(a,j)acridine	50	ND
7,12-Dimethylbenz(a)anthracene	50	ND
Fluoranthene	50	ND
Fluorene	50	ND
Indeno(1,2,3-cd)pyrene	50	ND
3-Methylcholanthrene	50	ND
2-Methylnaphthalene	50	ND
Naphthalene	50	ND
Phenanthrene	50	ND
Pyrene	50	TBQ

NUMBER OF UNIDENTIFIED PEAKS: >10

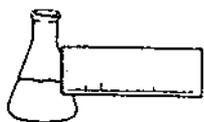
Analytical Surrogate Recovery:

Nitrobenzene-d 5: 39.%
2-Fluorobiphenyl: 39.%
Terphenyl-d 14: 50.%

PERCENT SOLIDS: 83.%

NOTES:

- 1 None detected
- 2 Trace below quantitation limit



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Laboratory Services

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EPA METHOD 8100 (SOIL) LABORATORY REPORT

MATRIX SPIKE AND DUPLICATE LABORATORY CONTROL DATA

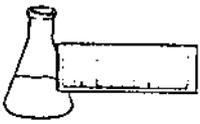
CLIENT: Wagner, Heindel, & Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave.
REPORT DATE: January 6, 1995
DATE SAMPLED: December 23, 1994
DATE RECEIVED: December 27, 1994
ANALYSIS DATE: December 30, 1994

PROJECT CODE: HNVN1790
REF.#: 69,100
STATION: 140 Riverside Ave.
TIME SAMPLED: 1600
SAMPLER: C. Massey

<u>Parameter</u>	<u>Sample(ug/kg)</u>	<u>Spike(ug/kg)</u>	<u>Dup 1(ug/kg)</u>	<u>Dup 2(ug/kg)</u>	<u>Avg % Recovery</u>
Acenaphthene	ND ¹	800	539.	567.	69.%
Acenaphthylene	ND	800	611.	669.	80.%
Anthracene	ND	800	480.	516.	62.%
Benzo(a)anthracene	ND	800	501.	542.	65.%
Benzo(b,k)fluoranthene	TBQ ²	1600	1,170.	1,220.	75.%
Benzo(a)pyrene	ND	800	605.	633.	77.%
Chrysene	ND	800	505.	545.	66.%
Dibenzo(a,h)anthracene	ND	800	723.	628.	84.%
Fluoranthene	ND	800	782.	741.	95.%
Fluorene	ND	800	511.	555.	67.%
Indeno(1,2,3-cd)pyrene	ND	800	891.	774.	104.%
Naphthalene	ND	800	590.	618.	76.%
Phenanthrene	ND	800	630.	653.	80.%
Pyrene	TBQ	800	728.	667.	87.%

Notes:

- 1 None detected
- 2 Trace below quantitation limit



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Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB Riverside Ave/#94129
REPORT DATE: January 24, 1995
DATE SAMPLED: December 28-29, 1994

PROJECT CODE: HNVN1888
REF. #: 69,329 - 69,332

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Chain of custody indicated the water sample was preserved with Sodium Azide.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

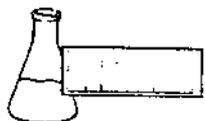
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LABORATORY REPORTEPA METHOD 8240 SOIL MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB Riverside Ave/#94129
REPORT DATE: January 24, 1995
DATE SAMPLED: December 29, 1994
DATE RECEIVED: January 3, 1994
ANALYSIS DATE: January 6, 1995

PROJECT CODE: HNVN1888
REF.#: 69,329
STATION: Stockpile Composite A
TIME SAMPLED: 16:10
SAMPLER: C. Massy

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
Dichlorodifluoromethane	100	ND ¹
Chloromethane	100	ND
Vinyl Chloride	100	ND
Bromomethane	50	ND
Chloroethane	50	ND
Trichlorofluoromethane	20	ND
Acetone	500	ND
1,1-Dichloroethene	20	ND
Methylene Chloride	200	ND
Carbon Disulfide	10	ND
MTBE	30	ND
trans-1,2-Dichloroethene	20	ND
1,1-Dichloroethane	20	ND
2-Butanone	200	ND
Chloroform	100	ND
1,1,1-Trichloroethane	10	ND
Carbon Tetrachloride	10	ND
1,2-Dichloroethane	10	ND
Benzene	10	ND
Trichloroethene	10	ND
1,2-Dichloropropane	10	ND
Bromodichloromethane	10	ND



REF.#: 69,329

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<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
4-Methyl-2-Pentanone	100	ND
cis-1,3-Dichloropropene	10	ND
Toluene	20	ND
trans-1,3-Dichloropropene	10	ND
1,1,2-Trichloroethane	20	ND
2-Hexanone	100	ND
Tetrachloroethene	20	ND
Dibromochloromethane	20	ND
Chlorobenzene	20	ND
Ethyl Benzene	10	ND
Total Xylenes	30	ND
Styrene	10	ND
Bromoform	50	ND
1,1,2,2-Tetrachloroethane	10	ND
1,3 Dichlorobenzene	20	ND
1,4 Dichlorobenzene	20	ND
1,2 Dichlorobenzene	20	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

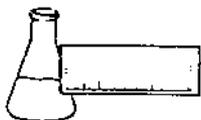
ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethane-d4 : 99.%
Toluene-d8 : 109.%
4-Bromofluorobenzene : 91.%

PERCENT SOLIDS: 85.%

NOTES:

1 None detected



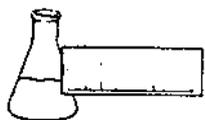
LABORATORY REPORT

EPA METHOD 8240 SOIL MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB Riverside Ave/#94129
REPORT DATE: January 24, 1995
DATE SAMPLED: December 29, 1994
DATE RECEIVED: January 3, 1994
ANALYSIS DATE: January 6, 1995

PROJECT CODE: HNVN1888
REF.#: 69,330
STATION: Stockpile Composite B
TIME SAMPLED: 16:00
SAMPLER: C. Massy

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
Dichlorodifluoromethane	100	ND ¹
Chloromethane	100	ND
Vinyl Chloride	100	ND
Bromomethane	50	ND
Chloroethane	50	ND
Trichlorofluoromethane	20	ND
Acetone	500	ND
1,1-Dichloroethene	20	ND
Methylene Chloride	200	ND
Carbon Disulfide	10	ND
MTBE	30	ND
trans-1,2-Dichloroethene	20	ND
1,1-Dichloroethane	20	ND
2-Butanone	200	ND
Chloroform	100	ND
1,1,1-Trichloroethane	10	ND
Carbon Tetrachloride	10	ND
1,2-Dichloroethane	10	ND
Benzene	10	ND
Trichloroethene	10	ND
1,2-Dichloropropane	10	ND
Bromodichloromethane	10	ND



REF.#: 69,330

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
4-Methyl-2-Pentanone	100	ND
cis-1,3-Dichloropropene	10	ND
Toluene	20	ND
trans-1,3-Dichloropropene	10	ND
1,1,2-Trichloroethane	20	ND
2-Hexanone	100	ND
Tetrachloroethene	20	ND
Dibromochloromethane	20	ND
Chlorobenzene	20	ND
Ethyl Benzene	10	ND
Total Xylenes	30	ND
Styrene	10	ND
Bromoform	50	ND
1,1,2,2-Tetrachloroethane	10	ND
1,3 Dichlorobenzene	20	ND
1,4 Dichlorobenzene	20	ND
1,2 Dichlorobenzene	20	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

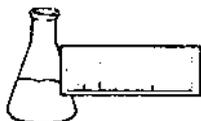
ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethane-d4 : 85.%
Toluene-d8 : 95.%
4-Bromofluorobenzene : 91.%

PERCENT SOLIDS: 85.%

NOTES:

1 None detected



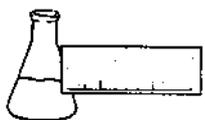
LABORATORY REPORT

EPA METHOD 8240 SOIL MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB Riverside Ave/#94129
REPORT DATE: January 24, 1995
DATE SAMPLED: December 28, 1994
DATE RECEIVED: January 3, 1994
ANALYSIS DATE: January 6, 1995

PROJECT CODE: HNVN1888
REF.#: 69,331
STATION: Under Slab Composite
TIME SAMPLED: 15:00
SAMPLER: C. Massy

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
Dichlorodifluoromethane	100	ND ¹
Chloromethane	100	ND
Vinyl Chloride	100	ND
Bromomethane	50	ND
Chloroethane	50	ND
Trichlorofluoromethane	20	ND
Acetone	500	ND
1,1-Dichloroethene	20	ND
Methylene Chloride	200	ND
Carbon Disulfide	10	ND
MTBE	30	ND
trans-1,2-Dichloroethene	20	ND
1,1-Dichloroethane	20	ND
2-Butanone	200	ND
Chloroform	100	ND
1,1,1-Trichloroethane	10	ND
Carbon Tetrachloride	10	ND
1,2-Dichloroethane	10	ND
Benzene	10	ND
Trichloroethene	10	ND
1,2-Dichloropropane	10	ND
Bromodichloromethane	10	ND



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REF.#: 69,331

<u>Parameter</u>	<u>Detection Limit (ug/kg)</u>	<u>Concentration As Received(ug/kg)</u>
4-Methyl-2-Pentanone	100	ND
cis-1,3-Dichloropropene	10	ND
Toluene	20	ND
trans-1,3-Dichloropropene	10	ND
1,1,2-Trichloroethane	20	ND
2-Hexanone	100	ND
Tetrachloroethene	20	ND
Dibromochloromethane	20	ND
Chlorobenzene	20	ND
Ethyl Benzene	10	ND
Total Xylenes	30	48.3
Styrene	10	ND
Bromoform	50	ND
1,1,2,2-Tetrachloroethane	10	ND
1,3 Dichlorobenzene	20	ND
1,4 Dichlorobenzene	20	ND
1,2 Dichlorobenzene	20	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

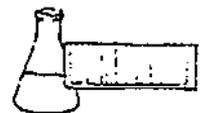
ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethane-d4 : 101.%
Toluene-d8 : 97.%
4-Bromofluorobenzene : 81.%

PERCENT SOLIDS: 82.%

NOTES:

1 None detected



ENDYNE, INC.

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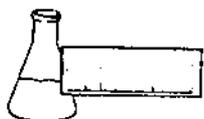
LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB/Riverside Ave/#94129
Analysis: EPA Method 8240
Reference #: 69,331
Station I.D.: Under Slab Composite
Unidentified Peaks: >10
Project Code: HNVN1888

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of Aliphatic Hydrocarbons ranging in concentration from 50-500 ug/kg.

Reviewed by _____



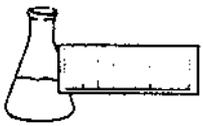
LABORATORY REPORT

EPA METHOD 8240 WATER MATRIX

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB Riverside Ave/#94129
REPORT DATE: January 24, 1995
DATE SAMPLED: December 29, 1994
DATE RECEIVED: January 3, 1994
ANALYSIS DATE: January 9, 1995

PROJECT CODE: HNVN1888
REF.#: 69,332
STATION: E. Foundation Pipe
TIME SAMPLED: 15:30
SAMPLER: C. Massy

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration(ug/L)</u>
Dichlorodifluoromethane	10	ND ¹
Chloromethane	10	ND
Vinyl Chloride	10	ND
Bromomethane	5	ND
Chloroethane	5	ND
Trichlorofluoromethane	2	ND
Acetone	5	ND
1,1-Dichloroethene	2	ND
Methylene Chloride	2	ND
Carbon Disulfide	1	ND
MTBE	3	ND
trans-1,2-Dichloroethene	2	ND
1,1-Dichloroethane	2	ND
2-Butanone	20	ND
Chloroform	10	ND
1,1,1-Trichloroethane	1	ND
Carbon Tetrachloride	1	ND
1,2-Dichloroethane	1	ND
Benzene	1	ND
Trichloroethene	1	ND
1,2-Dichloropropane	1	ND
Bromodichloromethane	1	ND


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REF.#: 69,332

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration(ug/L)</u>
4-Methyl-2-Pentanone	10	ND
cis-1,3-Dichloropropene	1	ND
Toluene	2	ND
trans-1,3-Dichloropropene	1	ND
1,1,2-Trichloroethane	2	ND
2-Hexanone	10	ND
Tetrachloroethene	2	ND
Dibromochloromethane	2	ND
Chlorobenzene	2	ND
Ethyl Benzene	1	ND
Total Xylenes	3	ND
Styrene	1	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	1	ND
1,3 Dichlorobenzene	2	ND
1,4 Dichlorobenzene	2	ND
1,2 Dichlorobenzene	2	ND

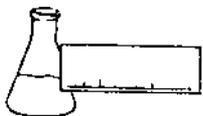
NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

 1,2-Dichloroethane-d4 : 102.%
 Toluene-d8 : 105.%
 4-Bromofluorobenzene : 88.%

NOTES:

1 None detected



ENDYNE, INC.

A3-20

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
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FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, & Noyes, Inc.
PROJECT NAME: VNB/140 Riverside Ave/#94129
DATE REPORTED: January 17, 1995
DATE SAMPLED: December 28, 1994

PROJECT CODE: HNVN1887
REF. #: 69,328

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

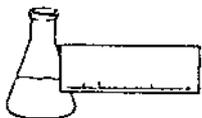
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures



LABORATORY REPORT
EPA METHOD 8100 BY GC/MS

CLIENT: Wagner, Heindel, & Noyes, Inc.
PROJECT NAME: VNB/140 Riverside Ave/#94129
REPORT DATE: January 17, 1995
DATE SAMPLED: December 28, 1994
DATE RECEIVED: January 3, 1995
DATE EXTRACTED: January 5, 1995

PROJECT CODE: HNVN1887
ANALYSIS DATE: January 12, 1995
STATION: Under Slab Composite
REF. #: 69,328
TIME SAMPLED: 1500
SAMPLER: C. Massey

<u>Parameter</u>	<u>Quantitation Limit (ug/kg)</u>	<u>Concentration as received(ug/kg)</u>
Acenaphthene	50	ND ¹
Acenaphthylene	50	ND
Anthracene	50	ND
Benzo(a)anthracene	50	ND
Benzo(b,k)fluoranthene	50	ND
Benzo(a)pyrene	50	ND
Benzo(g,h,i)perylene	50	ND
Chrysene	50	ND
Dibenzo(a,h)anthracene	50	ND
Dibenz(a,j)acridine	50	ND
7,12-Dimethylbenz(a)anthracene	50	ND
Fluoranthene	50	ND
Fluorene	50	ND
Indeno(1,2,3-cd)pyrene	50	ND
3-Methylcholanthrene	50	ND
2-Methylnaphthalene	50	ND
Naphthalene	50	ND
Phenanthrene	50	ND
Pyrene	50	ND

NUMBER OF UNIDENTIFIED PEAKS: >10

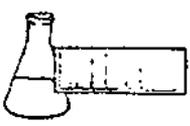
Analytical Surrogate Recovery:

Nitrobenzene-d 5:	5.0% ²
2-Fluorobiphenyl:	1.0% ²
Terphenyl-d 14:	1.0% ²

PERCENT SOLIDS: 82.0%

NOTES:

- 1 None detected
- 2 Analytical surrogate recoveries are not within laboratory QA/QC parameters.
Low recovery attributed to matrix interferences.



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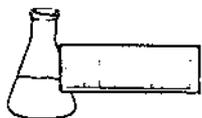
LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

Client: Wagner, Heindel, and Noyes, Inc.
Project: VNB 140Riverside Ave/#94129
Analysis: EPA Method 8100
Reference #: 69,328
Station LD.: Under Slab Composite
Unidentified Peaks: >10
Project Code: HNVN1887

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data. The unidentified peaks in this sample consist of Aliphatic Hydrocarbons ranging in concentration from 100-1000 ug/kg.

Reviewed by 



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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, & Noyes, Inc.
PROJECT NAME: VNB/140 Riverside Ave/#94129
DATE REPORTED: January 13, 1995
DATE SAMPLED: December 28-29, 1994

PROJECT CODE: HNVN1886
REF. #: 69,325-69,327

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

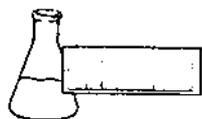
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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A3-26

Laboratory Services

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LABORATORY REPORT

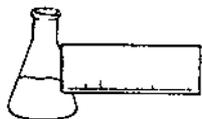
TOTAL PETROLEUM HYDROCARBONS (TPH) BY MODIFIED EPA METHOD 8100

DATE: January 13, 1995
CLIENT: Wagner, Heindel, & Noyes, Inc.
PROJECT: VNB/Riveride Ave/#94129
PROJECT CODE: HNVN1886
COLLECTED BY: C. Massey
DATE SAMPLED: December 28-29, 1994
DATE RECEIVED: January 3, 1995

<u>Reference #</u>	<u>Sample ID</u>	<u>Concentration (mg/kg as received)¹</u>
69,325	Stockpile Composite A; 16:10;12/29/94	12.2
69,326	Stockpile Composite B; 16:00;12/29/94	TBQ ²
69,327	Under Slab Composite; 15:00;12/28/94	TBQ

Notes:

- 1 Method detection limit is 5.0 mg/kg.
- 2 Trace below quantitation limit.



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A3-26

Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave
REPORT DATE: January 25, 1995
DATE SAMPLED: January 6, 1995

PROJECT CODE: HNVN3036
REF.#: 69,506

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Samples were not preserved.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

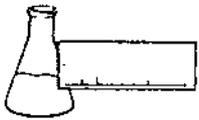
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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ENDYNE, INC.

A2-27

Laboratory Services

32 James Brown Drive
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(802) 879-4333
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LABORATORY REPORT

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave
REPORT DATE: January 25, 1995
DATE SAMPLED: January 6, 1995
DATE RECEIVED: January 6, 1995

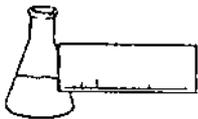
PROJECT CODE: HNVN3036
REF. #: 69,506
STATION: Comp. A&B 12/28-29/94
TIME SAMPLED: Not Indicated
SAMPLER: C. Massey

TCLP was performed by EPA Method 1311.
Digestion was performed by EPA Method 3010/3020.

<u>Parameter</u>	<u>Concentration</u> (mg/L, ppm)	<u>Reporting Limit</u> (mg/L, ppm)	<u>EPA Method</u>	<u>Analysis Date</u>
Arsenic	ND ¹	0.500	6010	1/24/95
Barium	0.248	0.010	6010	1/24/95
Cadmium	ND	0.005	6010	1/24/95
Chromium	ND	0.010	6010	1/24/95
Lead	1.49	0.100	6010	1/24/95
Mercury	ND	0.001	7470	1/11/95
Selenium	ND	0.500	6010	1/24/95
Silver	ND	0.010	6010	1/24/95

NOTES:

1 None Detected



ENDYNE, INC.

A3-28

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METALS LABORATORY REPORT

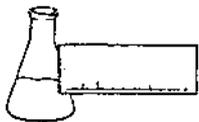
DUPLICATE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave
REPORT DATE: January 25, 1995
DATE SAMPLED: January 6, 1995
DATE RECEIVED: January 6, 1995

PROJECT CODE: HNVN3036
REF. #: 69,506
STATION: Comp. A&B 12/28-29/94
TIME SAMPLED: Not Indicated
SAMPLER: C. Massey

<u>Parameter</u>	<u>Dup 1</u> <u>(mg/L)</u>	<u>Dup 2</u> <u>(mg/L)</u>	<u>Avg. % Diff.</u>
Arsenic	ND ¹	ND	ND
Barium	0.246	0.249	1.
Cadmium	ND	ND	ND
Chromium	ND	ND	ND
Lead	1.46	1.52	2.
Mercury	ND	ND	ND
Selenium	ND	ND	ND
Silver	ND	ND	ND

NOTES:
1 None Detected



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A3-29

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METALS LABORATORY REPORT

SPIKE CONTROL DATA

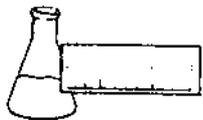
CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave
REPORT DATE: January 25, 1995
DATE SAMPLED: January 6, 1995
DATE RECEIVED: January 6, 1995

PROJECT CODE: HNVN3036
REF. #: 69,506
STATION: Comp. A&B 12/28-29/94
TIME SAMPLED: Not Indicated
SAMPLER: C. Massey

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L)</u>	<u>Spike</u> <u>(mg/L)</u>	<u>% Rec.</u>
Arsenic	ND ¹	0.500	99.2
Barium	0.246	0.500	87.2
Cadmium	ND	0.500	96.6
Chromium	ND	0.500	93.0
Lead	1.46	0.500	106.
Mercury	ND	0.005	93.0
Selenium	ND	0.500	103.
Silver	ND	0.500	89.0

NOTES:

1 None Detected



ENDYNE, INC.

A3-30

Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel & Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave.
DATE REPORTED: January 20, 1995
DATE SAMPLED: December 23 & 29, 1994

PROJECT CODE: HNVN1035
REF. #: 69,505

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

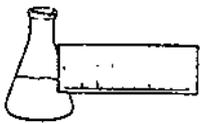
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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A2-31

Laboratory Services

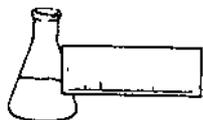
32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

TCLP VOLATILES BY EPA METHOD 8260

CLIENT: Wagner, Heindel, & Noyes, Inc. PROJECT CODE: HNVN1035
PROJECT NAME: VNB/Riverside Ave. REF #: 69,505
REPORT DATE: January 20, 1995 STATION: Composite of Sample
DATE SAMPLED: December 23&29, 1994 TIME SAMPLED: Not Indicated
DATE RECEIVED: January 6, 1995 SAMPLER: C. Massey
ANALYSIS DATE: January 20, 1995 TCLP EXTRACTION DATE: January 9, 1995

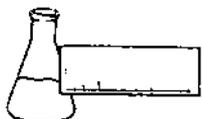
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
-Benzene	2	ND ¹
Bromobenzene	2	ND
-Bromochloromethane	2	ND
Bromodichloromethane	2	ND
Bromoform	2	ND
-Bromomethane	5	ND
n-Butylbenzene	2	ND
-sec-Butylbenzene	2	ND
Carbon tetrachloride	2	ND
-Chlorobenzene	2	ND
Chloroethane	5	ND
Chloroform	5	ND
-Chloromethane	10	ND
(2&4)Chlorotoluene	2	ND
-Dibromochloromethane	2	ND
1,2-Dibromo-3-chloropropane	2	ND
-1,2-Dibromoethane	2	ND
Dibromomethane	2	ND



REF #: 69,505

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<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
1,2-Dichlorobenzene	2	ND
1,3-Dichlorobenzene	2	ND
1,4-Dichlorobenzene	2	ND
Dichlorodifluoromethane	10	ND
1,1-Dichloroethane	2	ND
1,2-Dichloroethane	2	ND
1,1-Dichloroethene	2	ND
cis-1,2-Dichloroethene	2	ND
trans-1,2-Dichloroethene	2	ND
1,2-Dichloropropane	2	ND
1,3-Dichloropropane	2	ND
2,2-Dichloropropane	2	ND
1,1-Dichloropropene	2	ND
Ethylbenzene	2	ND
Hexachlorobutadiene	2	ND
Isopropylbenzene	2	ND
p-Isopropyltoluene	2	ND
Methylene chloride	10	ND
Naphthalene	2	ND
n-Propylbenzene	2	ND
Styrene	2	ND
1,1,1,2-Tetrachloroethane	2	ND
1,1,2,2-Tetrachloroethane	2	ND
Tetrachloroethene	2	ND
Toluene	2	ND



REF #: 69,505

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<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
1,2,3-Trichlorobenzene	2	ND
1,2,4-Trichlorobenzene	2	ND
1,1,1-Trichloroethane	2	ND
1,1,2-Trichloroethane	2	ND
Trichloroethene	2	ND
Trichlorofluoromethane	2	ND
1,2,3-Trichloropropane	2	ND
1,2,4-Trimethylbenzene	2	ND
1,3,5-Trimethylbenzene	2	ND
Vinyl chloride	10	ND
Total Xylenes	2	ND
MTBE	5	ND

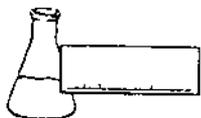
NUMBER OF UNIDENTIFIED PEAKS: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane: 115.%
Toluene-d8: 110.%
4-Bromofluorobenzene: 109.%

Notes:

1 None detected



ENDYNE, INC.

Laboratory Services *A2-34*

32 James Brown Drive
Williston, Vermont 05495
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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: VNB/Riverside Ave.
DATE REPORTED: January 25, 1995
DATE SAMPLED: December 23&29, 1994

PROJECT CODE: HNVN1034
REF. #: 69,504

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

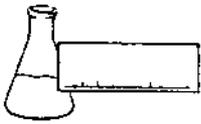
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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ENDYNE, INC.

Laboratory Services **A3-35**

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
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LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS (TPH) BY MODIFIED EPA METHOD 8100

DATE: January 25, 1995
CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT: VNB/Riverside Ave.
PROJECT CODE: HNVN1034
COLLECTED BY: C. Massey
DATE SAMPLED: December 23&29, 1994
DATE RECEIVED: Not Indicated

<u>Reference #</u>	<u>Sample ID</u>	<u>Concentration(mg/L)¹</u>
--------------------	------------------	--

69,504	Composite from 12/23/94 and Samples A&B from 12/29/94	ND ²
--------	--	-----------------

Notes:

- 1 Method detection limit is 1.0 mg/L.
- 2 None Detected

A3-36

ENDYNE, INC.

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69,504-506

CHAIN-OF-CUSTODY RECORD

13402

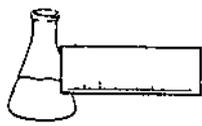
Project Name: VNB/Riverside Ave Site Location:	Reporting Address:	Billing Address:
Endyne Project Number: HNUN1034	Company: WHN Contact Name/Phone #: C. Massey	Sampler Name: Phone #:

Lab #	Sample Location	Matrix	GRA B	COMP	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
11501	Composite of Sample	Soil									
	Substrate Sampled on 12/28/94										
	& Composites of A & B Sampled on 12/29/94										
								(1) Metals → As, Ba, Cd, Cr, Pb, Hg, Se, Ag			
								(2) 8260			
								(3) Modified 8100 TPH			
								All on TCLP extract of Full Composite			
								JR 1-6-95			

Relinquished by: Signature	Received by: Signature	Date/Time
Relinquished by: Signature	Received by: Signature	Date/Time

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pests/PCB
4	Nitrite N	9	BOD ₅	14	Turbidity	19	BTEX	24	EPA 608 Pests/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) TPH-8100										
30	Other (Specify):										



ENDYNE, INC.

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: 140 Riverside Ave/#94129
DATE REPORTED: January 23, 1995
DATE SAMPLED: January 10, 1995

PROJECT CODE: HNRA1045
REF. #: 69,524

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody did not indicate sample preservation.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

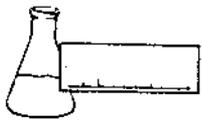
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by, 

Harry B. Locker, Ph.D.
Laboratory Director

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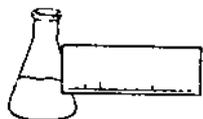


LABORATORY REPORT

TCLP VOLATILES BY EPA METHOD 8260

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT CODE: HNRA1045
PROJECT NAME: 140 Riverside Ave/#94129 REF #: 69,524
REPORT DATE: January 23, 1995 STATION: MW-3
DATE SAMPLED: January 10, 1995 TIME SAMPLED: 13:45
DATE RECEIVED: January 10, 1995 SAMPLER: C. Massey
ANALYSIS DATE: January 19, 1995

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	2	ND ¹
Bromobenzene	2	ND
Bromochloromethane	2	ND
Bromodichloromethane	2	ND
Bromoform	2	ND
Bromomethane	5	ND
n-Butylbenzene	2	ND
sec-Butylbenzene	2	ND
Carbon tetrachloride	2	ND
Chlorobenzene	2	ND
Chloroethane	5	ND
Chloroform	5	ND
Chloromethane	10	ND
(2&4)Chlorotoluene	2	ND
Dibromochloromethane	2	ND
1,2-Dibromo-3-chloropropane	2	ND
1,2-Dibromoethane	2	ND
Dibromomethane	2	ND



REF #: 69,524

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
1,2-Dichlorobenzene	2	ND
1,3-Dichlorobenzene	2	ND
1,4-Dichlorobenzene	2	ND
Dichlorodifluoromethane	10	ND
1,1-Dichloroethane	2	ND
1,2-Dichloroethane	2	ND
1,1-Dichloroethene	2	ND
cis-1,2-Dichloroethene	2	ND
trans-1,2-Dichloroethene	2	ND
1,2-Dichloropropane	2	ND
1,3-Dichloropropane	2	ND
2,2-Dichloropropane	2	ND
1,1-Dichloropropene	2	ND
Ethylbenzene	2	ND
Hexachlorobutadiene	2	ND
Isopropylbenzene	2	ND
p-Isopropyltoluene	2	ND
Methylene chloride	10	ND
Naphthalene	2	ND
n-Propylbenzene	2	ND
Styrene	2	ND
1,1,1,2-Tetrachloroethane	2	ND
1,1,2,2-Tetrachloroethane	2	ND
Tetrachloroethene	2	TBQ ²
Toluene	2	ND



REF #: 69,524

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<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
1,2,3-Trichlorobenzene	2	ND
1,2,4-Trichlorobenzene	2	ND
1,1,1-Trichloroethane	2	ND
1,1,2-Trichloroethane	2	ND
Trichloroethene	2	ND
Trichlorofluoromethane	2	ND
1,2,3-Trichloropropane	2	ND
1,2,4-Trimethylbenzene	2	ND
1,3,5-Trimethylbenzene	2	ND
Vinyl chloride	10	ND
Total Xylenes	2	ND
MTBE	5	ND

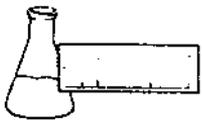
NUMBER OF UNIDENTIFIED PEAKS: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane: 116.%
Toluene-d8: 110.%
4-Bromofluorobenzene: 112.%

Notes:

- 1 None detected
- 2 Trace below quantitation limit



ENDYNE, INC.

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Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: 140 Riverside Ave/#94129
DATE REPORTED: January 25, 1995
DATE SAMPLED: January 10, 1995

PROJECT CODE: HNRA1046
REF. #: 69,525

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

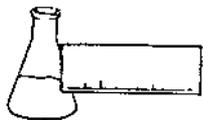
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT
EPA METHOD 8100 (TCLP) BY GC/MS

CLIENT: Wagner, Heindel, and Noyes, Inc.	PROJECT CODE: HNRA1046
PROJECT NAME: 140 Riverside Ave/#94129	ANALYSIS DATE: January 24, 1995
REPORT DATE: January 25, 1995	STATION: MW-3
DATE SAMPLED: January 10, 1995	REF. #: 69,525
DATE RECEIVED: January 10, 1995	TIME SAMPLED: 13:10/14:00
DATE EXTRACTED: January 17, 1995	SAMPLER: C. Massey

<u>Parameter</u>	<u>Quantitation Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Acenaphthene	2	ND ¹
Acenaphthylene	2	ND
Anthracene	2	ND
Benzo(a)anthracene	2	ND
Benzo(b,k)fluoranthene	2	ND
Benzo(a)pyrene	2	ND
Benzo(ghi)perylene	2	ND
Chrysene	2	ND
Dibenzo(a,h)anthracene	2	ND
Dibenz(a,j)acridine	2	ND
7,12-Dimethylbenz(a)anthracene	2	ND
Fluoranthene	2	ND
Fluorene	2	ND
Indeno(1,2,3-cd)pyrene	2	ND
3-Methylcholanthrene	2	ND
2-Methylnaphthalene	2	ND
Naphthalene	2	ND
Phenanthrene	2	ND
Pyrene	2	ND

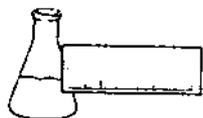
NUMBER OF UNIDENTIFIED PEAKS: >10

Analytical Surrogate Recovery:

Nitrobenzene-d 5:	64.%
2-Fluorobiphenyl:	85.%
Terphenyl-d 14:	87.%

NOTES:

1 None detected



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Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: 140 Riverside Ave/#94129
DATE REPORTED: January 25, 1995
DATE SAMPLED: January 10, 1995

PROJECT CODE: HNRA1047
REF. #: 69,526

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

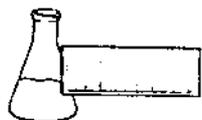
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Services

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LABORATORY REPORT

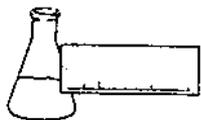
TOTAL PETROLEUM HYDROCARBONS (TPH) BY MODIFIED EPA METHOD 8100

DATE: January 25, 1995
CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT: 140 Riverside Ave/#94129
PROJECT CODE: HNRA1047
COLLECTED BY: C. Massey
DATE SAMPLED: January 10, 1995
DATE RECEIVED: January 10, 1995

<u>Reference #</u>	<u>Sample ID</u>	<u>Concentration(mg/L)¹</u>
69,526	MW-3; 13:10/14:00	1.2

Notes:

1 Method detection limit is 1.0 mg/L.



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Laboratory Services

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Williston, Vermont 05495
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REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.
PROJECT NAME: 140 Riverside Ave/#94129
REPORT DATE: January 24, 1995
DATE SAMPLED: January 10, 1995

PROJECT CODE: HNRA3048
REF.#: 69,527

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Metals preservation with HNO₃ was performed at the laboratory.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

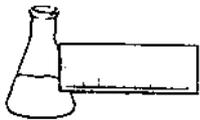
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Services

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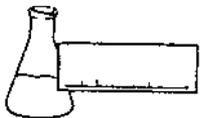
32 James Brown Drive
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FAX 879-7103

LABORATORY REPORT

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT CODE: HNRA3048
PROJECT NAME: 140 Riverside Ave/#94129 REF. #: 69,527
REPORT DATE: January 24, 1995 STATION: MW-3
DATE SAMPLED: January 10, 1995 TIME SAMPLED: 13:30
DATE RECEIVED: January 10, 1995 SAMPLER: C. Massey

TCLP was performed by EPA Method 1131.
Digestion was performed by EPA Method 3010/3020.

<u>Parameter</u>	<u>Concentration</u> (mg/L, ppm)	<u>Reporting Limit</u> (mg/L, ppm)	<u>EPA Method</u>	<u>Analysis Date</u>
Lead	0.088	0.002	7421	1/23/95



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A3-47

Laboratory Services

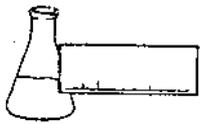
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FAX 879-7103

METALS LABORATORY REPORT

DUPLICATE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT CODE: HNRA3048
PROJECT NAME: 140 Riverside Ave/#94129 REF. #: 69,527
REPORT DATE: January 24, 1995 STATION: MW-3
DATE SAMPLED: January 10, 1995 TIME SAMPLED: 13:30
DATE RECEIVED: January 10, 1995 SAMPLER: C. Massey

<u>Parameter</u>	<u>Dup 1</u> <u>(mg/L)</u>	<u>Dup 2</u> <u>(mg/L)</u>	<u>Avg. % Diff.</u>
Lead	0.085	0.090	3.



ENDYNE, INC.

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Laboratory Services

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METALS LABORATORY REPORT

SPIKE CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT CODE: HNRA3048
PROJECT NAME: 140 Riverside Ave/#94129 REF. #: 69,527
REPORT DATE: January 24, 1995 STATION: MW-3
DATE SAMPLED: January 10, 1995 TIME SAMPLED: 13:30
DATE RECEIVED: January 10, 1995 SAMPLER: C. Massey

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L)</u>	<u>Spike</u> <u>(mg/L)</u>	<u>% Rec.</u>
Lead	0.085	0.050	100.

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32 James Brown Drive
Williston, Vermont 05495
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94129

CHAIN-OF-CUSTODY RECORD

10330

Project Name: <i>140 Riverside Ave</i>	Reporting Address: <i>W/N</i>	Billing Address: <i>W/N</i>
Site Location:		
Endyne Project Number: <i>HNRA3048</i>	Company: <i>C Massey</i>	Sampler Name: <i>C Massey</i>
	Contact Name/Phone #:	Phone #:

Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
<i>19527</i>	<i>MW-3</i>	<i>water</i>	<i>X</i>		<i>1/10/95</i> <i>13:45</i>	<i>2</i>	<i>40ml</i>	<i>TCLP</i>	<i>8260</i>		
					<i>1/10/95</i> <i>13:10 / 14:50</i>	<i>2</i>	<i>1 liter amber</i>	<i>TCLP</i>	<i>8100 + mod 8100 TPA</i>		
					<i>1/10/95</i> <i>13:30</i>	<i>1</i>	<i>8oz plastic</i>	<i>TCLP</i>	<i>lead</i>		

Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time <i>1/10/95 5:45 PM</i>
Relinquished by: Signature	Received by: Signature	Date/Time

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify) <i>Pb</i>	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pcs/PCB
4	Nitrite N	9	BOD ₅	14	Turbidity	19	BTEX	24	EPA 608 Pcs/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 806 <i>8260</i>		
29	TCLP (Specify volatile, semi-volatile, metals, pesticides, herbicides)										
30	oz (Spd) <i>Blow + mod 8100 TPA</i>										

