Appendix H

Part 2

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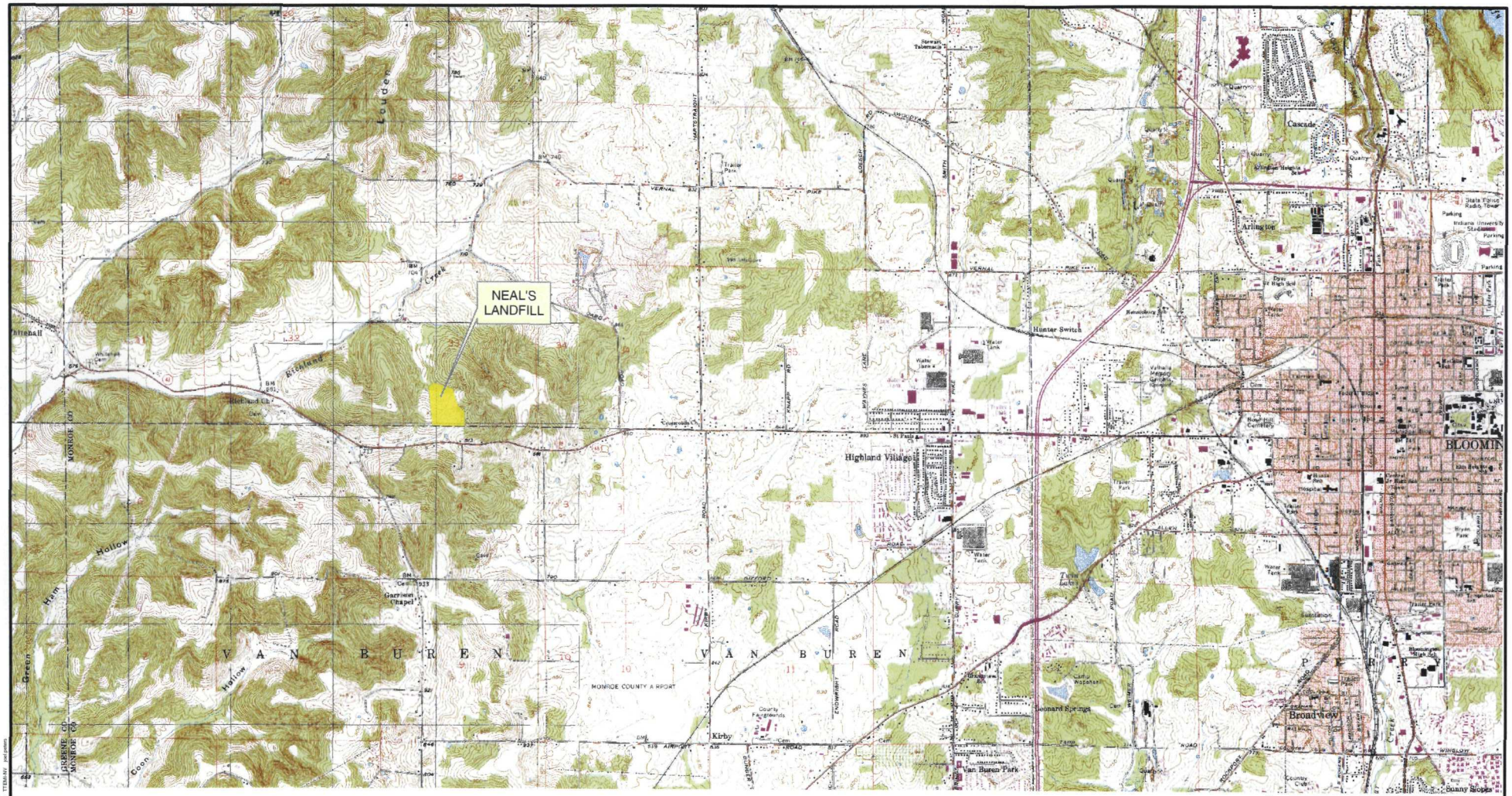


LEGEND

NEAL'S LANDFILL

SOURCE: MODIFIED FROM USGS, WHITEHALL, INDIANA QUADRANGLE, 1980, AND BLOOMINGTON, INDIANA QUADRANGLE, 1990.

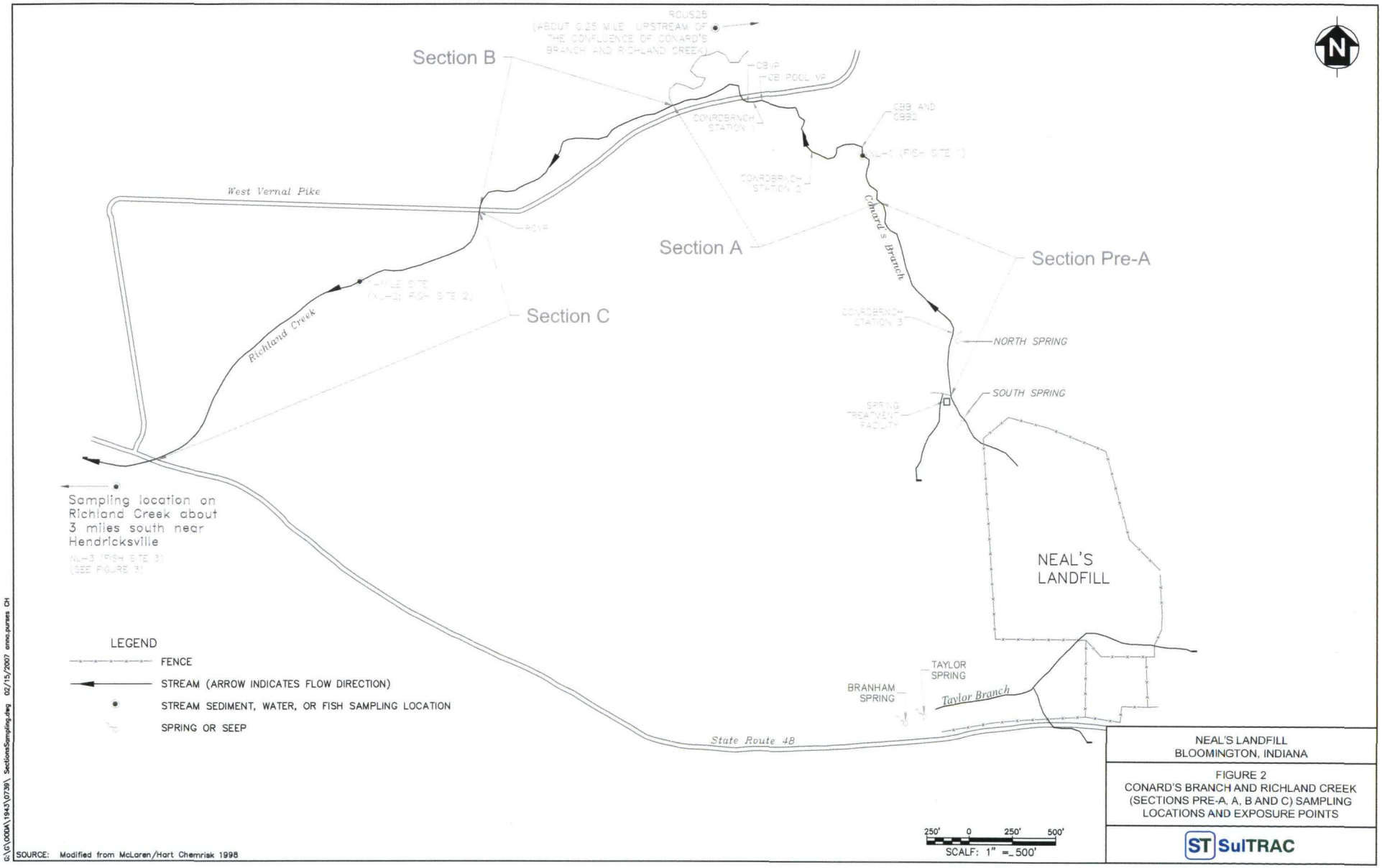
N
W E
S

0 3,000 Feet

NEAL'S LANDFILL
BLOOMINGTON, INDIANA

FIGURE 1
SITE LOCATION MAP

Tetra Tech EM Inc.



NEAL'S LANDFILL
BLOOMINGTON, INDIANA

FIGURE 2
CONARD'S BRANCH AND RICHLAND CREEK (SECTIONS PRE-A, A, B AND C) SAMPLING LOCATIONS AND EXPOSURE POINTS

SulTRAC

SOURCE: Modified from McLaren/Hart Chemrisk 1998

G:\G\000A\1943\0739\ SectionsSampling.dwg 02/15/2007 anna.purnes CH

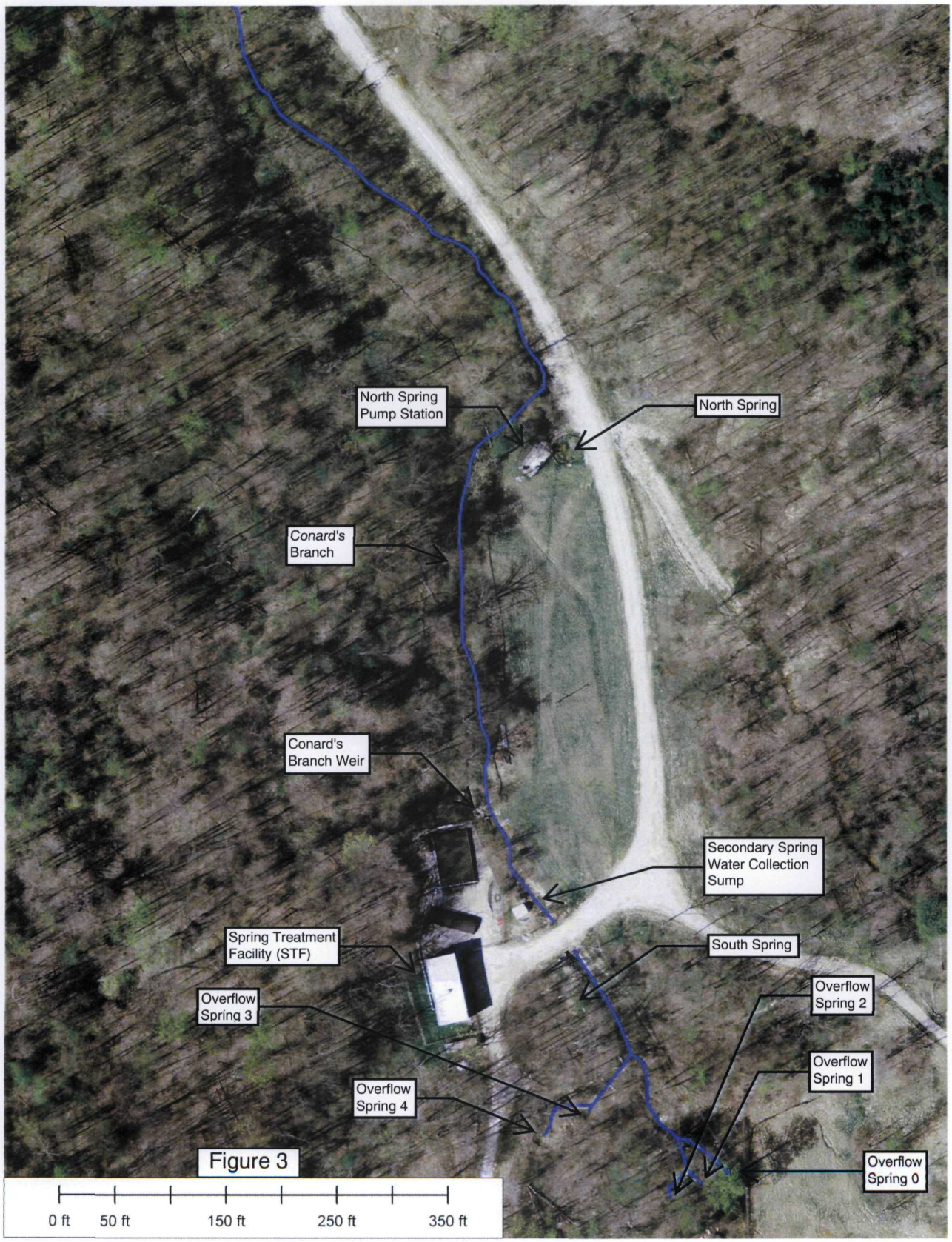


Figure 3: **Northwest spring system**

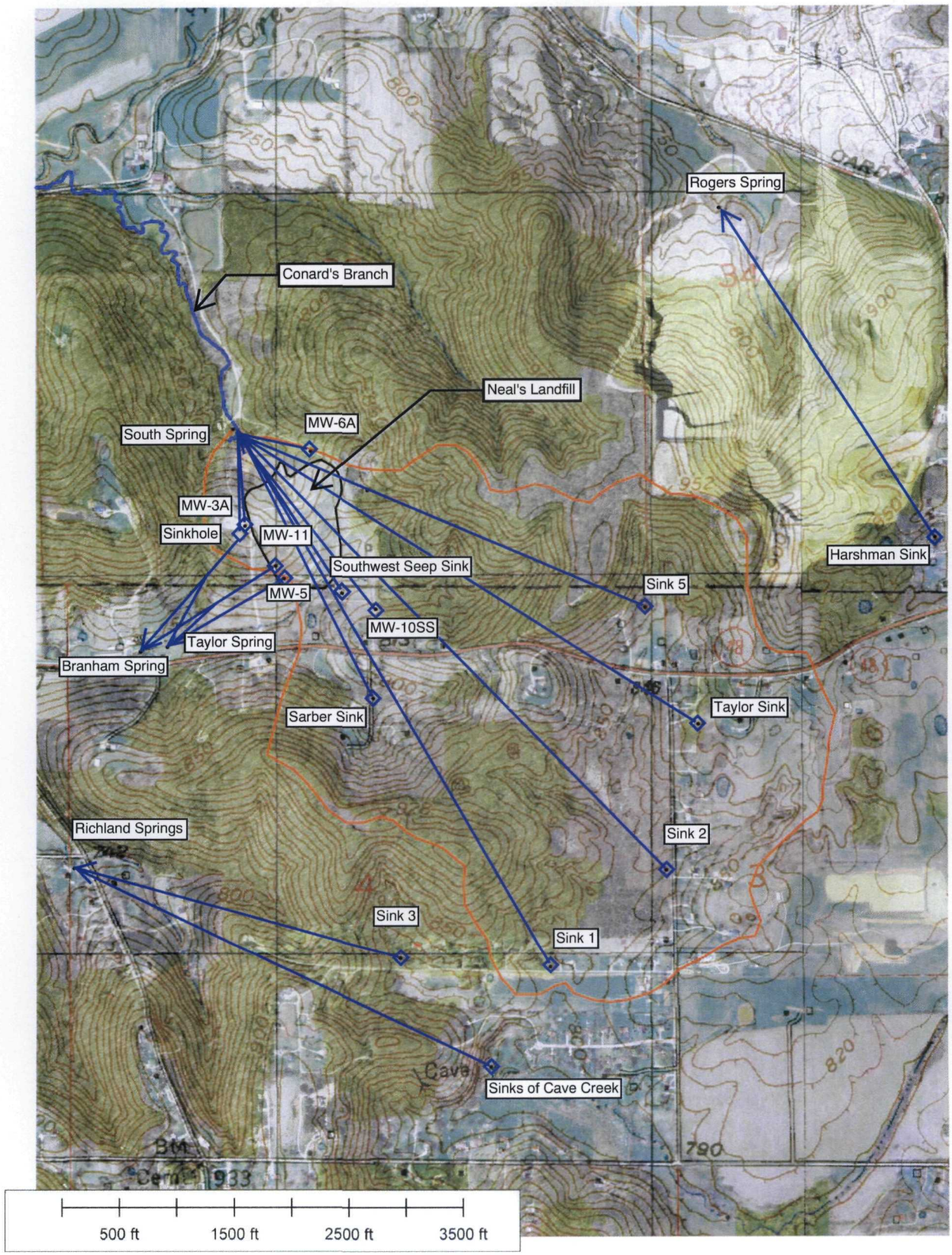
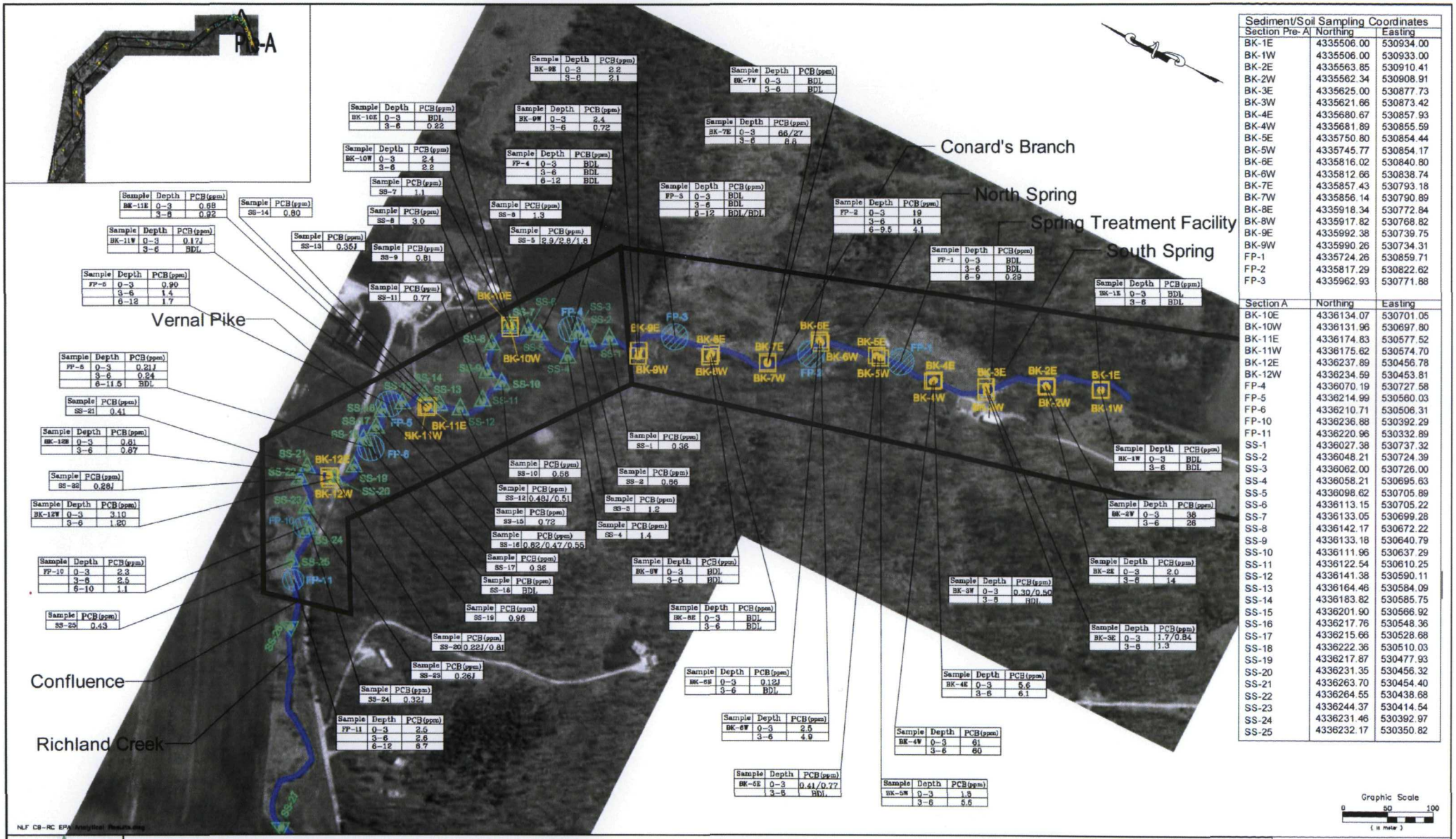


Figure 4: **Neal's Landfill groundwater dye testing and drainage basin delineation.**



Sample	Depth	PCB (ppm)
BK-11E	0-3	0.68
	3-6	0.92

Sample	PCB (ppm)
SS-14	0.80

Sample	Depth	PCB (ppm)
BK-11W	0-3	0.17J
	3-6	BDL

Sample	PCB (ppm)
SS-13	0.35J

Sample	Depth	PCB (ppm)
FP-5	0-3	0.90
	3-6	1.4
	6-12	1.7

Sample	Depth	PCB (ppm)
FP-5	0-3	0.21J
	3-6	0.24
	6-11.5	BDL

Sample	PCB (ppm)
SS-21	0.41

Sample	Depth	PCB (ppm)
BK-12E	0-3	0.61
	3-6	0.67

Sample	PCB (ppm)
SS-22	0.26J

Sample	Depth	PCB (ppm)
BK-12W	0-3	3.10
	3-6	1.20

Sample	Depth	PCB (ppm)
FP-10	0-3	2.3
	3-6	2.5
	6-10	1.1

Sample	PCB (ppm)
SS-25	0.43

Sample	Depth	PCB (ppm)
BK-10E	0-3	BDL
	3-6	0.22

Sample	Depth	PCB (ppm)
BK-10W	0-3	2.4
	3-6	2.2

Sample	PCB (ppm)
SS-7	1.1

Sample	PCB (ppm)
SS-8	3.0

Sample	PCB (ppm)
SS-9	0.81

Sample	PCB (ppm)
SS-11	0.77

Sample	Depth	PCB (ppm)
BK-9E	0-3	2.2
	3-6	2.1

Sample	Depth	PCB (ppm)
BK-9W	0-3	2.4
	3-6	0.72

Sample	Depth	PCB (ppm)
FP-4	0-3	BDL
	3-6	BDL
	6-12	BDL

Sample	PCB (ppm)
SS-6	1.3

Sample	PCB (ppm)
SS-5	2.9/2.8/1.6

Sample	Depth	PCB (ppm)
BK-7W	0-3	BDL
	3-6	BDL

Sample	Depth	PCB (ppm)
BK-7E	0-3	66/27
	3-6	8.8

Sample	Depth	PCB (ppm)
FP-3	0-3	BDL
	3-6	BDL
	6-12	BDL/BDL

Sample	Depth	PCB (ppm)
FP-2	0-3	19
	3-6	16
	6-9.5	4.1

Sample	Depth	PCB (ppm)
FP-1	0-3	BDL
	3-6	BDL
	6-9	0.29

Sample	Depth	PCB (ppm)
BK-1E	0-3	BDL
	3-6	BDL

Sample	PCB (ppm)
SS-1	0.36

Sample	PCB (ppm)
SS-10	0.56

Sample	PCB (ppm)
SS-2	0.56

Sample	PCB (ppm)
SS-12	0.48J/0.51

Sample	PCB (ppm)
SS-3	1.2

Sample	PCB (ppm)
SS-15	0.72

Sample	PCB (ppm)
SS-4	1.4

Sample	PCB (ppm)
SS-16	0.62/0.47/0.55

Sample	PCB (ppm)
SS-17	0.36

Sample	PCB (ppm)
SS-18	BDL

Sample	PCB (ppm)
SS-19	0.96

Sample	PCB (ppm)
SS-20	0.22J/0.81

Sample	PCB (ppm)
SS-23	0.26J

Sample	PCB (ppm)
SS-24	0.32J

Sample	Depth	PCB (ppm)
FP-11	0-3	2.5
	3-6	2.6
	6-12	6.7

Sample	Depth	PCB (ppm)
BK-8W	0-3	BDL
	3-6	BDL

Sample	Depth	PCB (ppm)
BK-8E	0-3	BDL
	3-6	BDL

Sample	Depth	PCB (ppm)
BK-5E	0-3	0.12J
	3-6	BDL

Sample	Depth	PCB (ppm)
BK-6W	0-3	2.5
	3-6	4.9

Sample	Depth	PCB (ppm)
BK-5E	0-3	0.41/0.77
	3-6	BDL

Sample	Depth	PCB (ppm)
BK-5W	0-3	1.9
	3-6	5.6

Sample	Depth	PCB (ppm)
BK-4W	0-3	61
	3-6	60

Sample	Depth	PCB (ppm)
BK-4E	0-3	5.6
	3-6	6.1

Sample	Depth	PCB (ppm)
BK-3W	0-3	0.30/0.50
	3-6	BDL

Sample	Depth	PCB (ppm)
BK-2E	0-3	2.0
	3-6	14

Sample	Depth	PCB (ppm)
BK-3E	0-3	1.7/0.84
	3-6	1.3

Sample	Depth	PCB (ppm)
BK-1W	0-3	BDL
	3-6	BDL

Sample	Depth	PCB (ppm)
BK-2W	0-3	38
	3-6	26

Sediment/Soil Sampling Coordinates

Section Pre-A	Northing	Easting
BK-1E	4335506.00	530934.00
BK-1W	4335506.00	530933.00
BK-2E	4335563.85	530910.41
BK-2W	4335562.34	530908.91
BK-3E	4335625.00	530877.73
BK-3W	4335621.66	530873.42
BK-4E	4335680.67	530857.93
BK-4W	4335681.89	530855.59
BK-5E	4335750.80	530854.44
BK-5W	4335745.77	530854.17
BK-6E	4335816.02	530840.80
BK-6W	4335812.66	530838.74
BK-7E	4335857.43	530793.18
BK-7W	4335856.14	530790.89
BK-8E	4335918.34	530772.84
BK-8W	4335917.82	530768.82
BK-9E	4335992.38	530739.75
BK-9W	4335990.26	530734.31
FP-1	4335724.26	530859.71
FP-2	4335817.29	530822.62
FP-3	4335962.93	530771.88

Section A	Northing	Easting
BK-10E	4336134.07	530701.05
BK-10W	4336131.96	530697.80
BK-11E	4336174.83	530577.52
BK-11W	4336175.62	530574.70
BK-12E	4336237.89	530456.78
BK-12W	4336234.59	530453.81
FP-4	4336070.19	530727.58
FP-5	4336214.99	530560.03
FP-6	4336210.71	530506.31
FP-10	4336236.88	530392.29
FP-11	4336220.96	530332.89
SS-1	4336027.38	530737.32
SS-2	4336048.21	530724.39
SS-3	4336062.00	530726.00
SS-4	4336058.21	530695.63
SS-5	4336098.62	530705.89
SS-6	4336113.15	530705.22
SS-7	4336133.05	530699.28
SS-8	4336142.17	530672.22
SS-9	4336133.18	530640.79
SS-10	4336111.96	530637.29
SS-11	4336122.54	530610.25
SS-12	4336141.38	530590.11
SS-13	4336164.46	530584.09
SS-14	4336183.82	530585.75
SS-15	4336201.90	530566.92
SS-16	4336217.76	530548.36
SS-17	4336215.66	530528.68
SS-18	4336222.36	530510.03
SS-19	4336217.87	530477.93
SS-20	4336231.35	530456.32
SS-21	4336263.70	530454.40
SS-22	4336264.55	530438.68
SS-23	4336244.37	530414.54
SS-24	4336231.46	530392.97
SS-25	4336232.17	530350.82

NLF CB-RC EPA Analytical Results.dwg

PSARA TECHNOLOGIES INC

LEGEND

- Flood Plain Sample Area
- Bank Soil Sample Location
- Surficial Sediment Sample Location

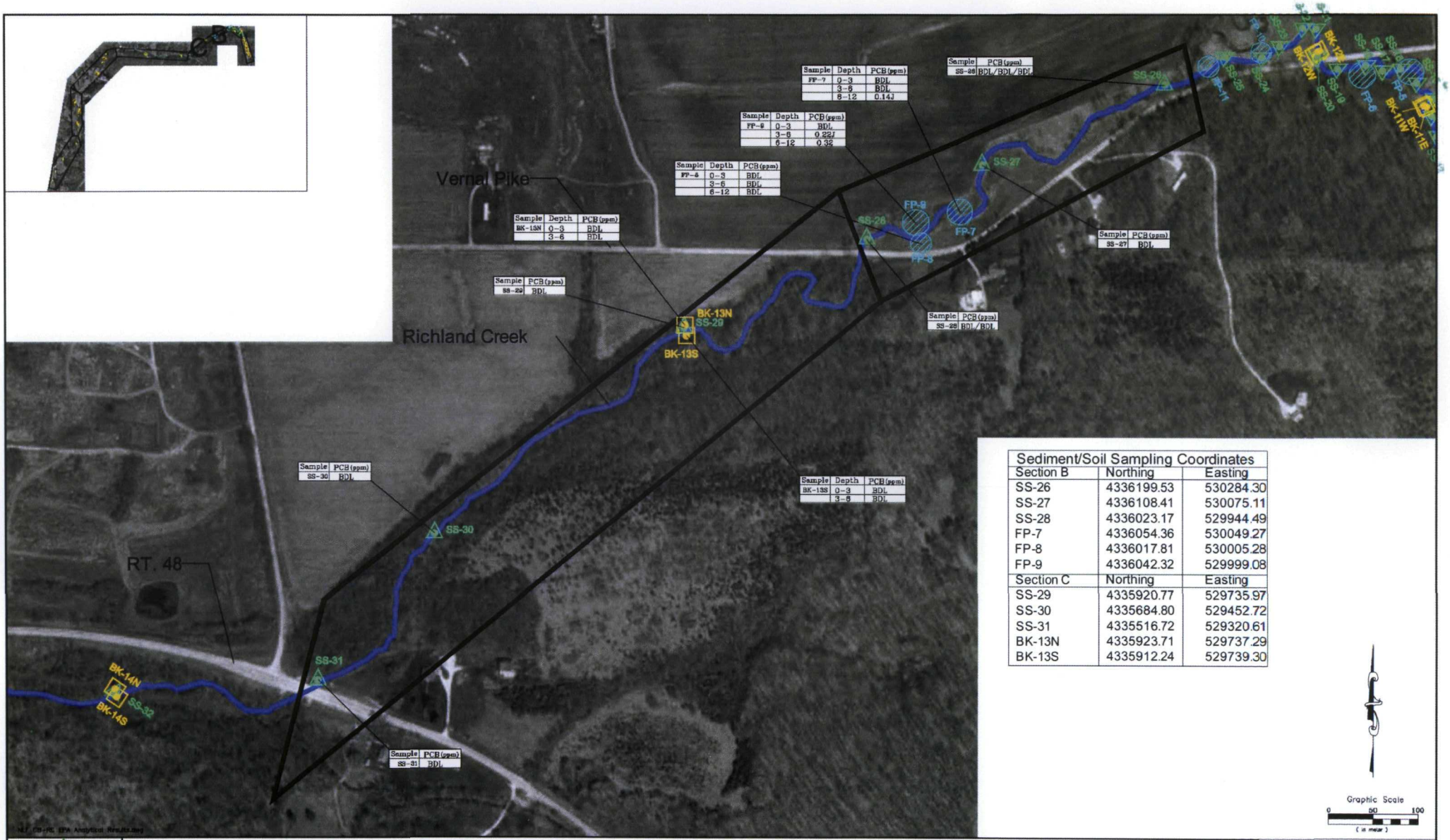
Note: All PCB results are reported on a dry basis.
"J" denotes estimated value.
BDL = below detectable limits. Samples were analyzed to a detection limit of 0.1 ppm (wet basis) for all PCB Aroclors except Aroclor 1221, which has a detection limit of 0.2 ppm on a wet basis.

Source: http://www.indiana.edu/~gisdata/arsrl_photos.htm. DOQQ MSIDs (aerialphoto)

VIACOM, Inc.

Figure 5
Sample Locations and PCB Results
Section Pre-A and A
Conard's Branch-Richland Creek

Drawn By:	Date:	Scale:
RLR	12/13/04	1"=100m



Sediment/Soil Sampling Coordinates		
Section B	Northing	Easting
SS-26	4336199.53	530284.30
SS-27	4336108.41	530075.11
SS-28	4336023.17	529944.49
FP-7	4336054.36	530049.27
FP-8	4336017.81	530005.28
FP-9	4336042.32	529999.08
Section C	Northing	Easting
SS-29	4335920.77	529735.97
SS-30	4335684.80	529452.72
SS-31	4335516.72	529320.61
BK-13N	4335923.71	529737.29
BK-13S	4335912.24	529739.30

Graphic Scale
0 50 100
(in meter)

PSARA
TECHNOLOGIES INC

LEGEND

- Flood plain Sample Area
- Bank Soil Sample Location
- Surficial Sediment Sample Location

Note: All PCB results are reported on a dry basis.
"J" denotes estimated value.
BDL = below detectable limits. Samples were analyzed to a detection limit of 0.1 ppm (wet basis) for all PCB Aroclors except Aroclor 1221, which has a detection limit of 0.2 ppm on a wet basis.

Source: http://www.indiana.edu/~gedata/aerial_photos.htm, DOQQ MSKIs (aerial photo)

VIACOM, Inc.

Figure 6
Sample Locations and PCB Results
Section B and C
Conard's Branch–Richland Creek

Drawn By:	Date:	Scale:
BLR	12/13/04	1"=100m