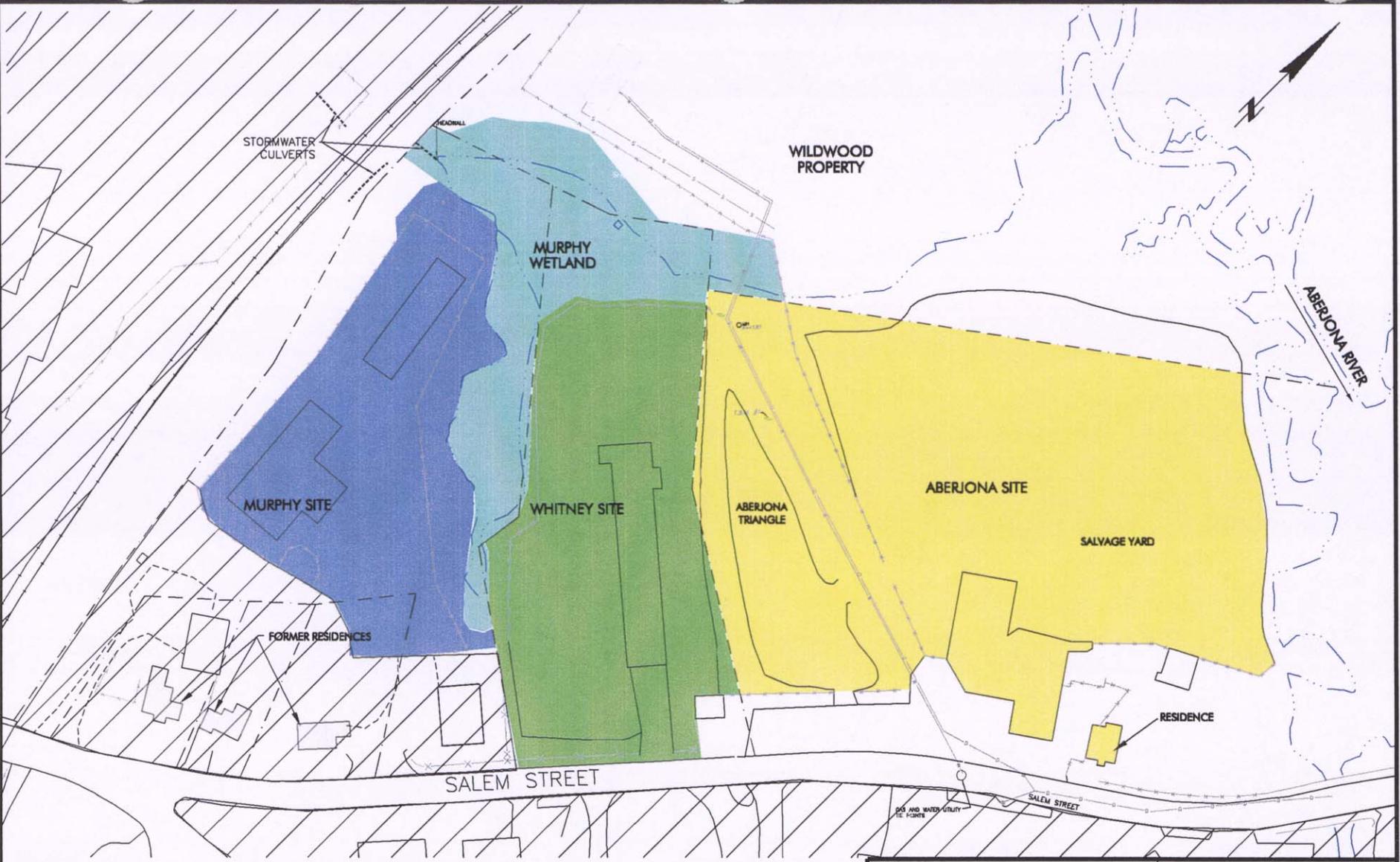


US EPA ARCHIVE DOCUMENT



SOURCE:
 SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT, SOUTHWEST PROPERTIES,
 VOLUME I OF XXIII, WELLS G&H SUPERFUND SITE, WOBURN, MASSACHUSETTS,
 AUGUST 2003

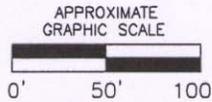
- ABERJONA SITE
- WHITNEY SITE
- MURPHY WETLAND
- MURPHY SITE

OFFSITE RESIDENT
 (GW-1 SCENARIO)

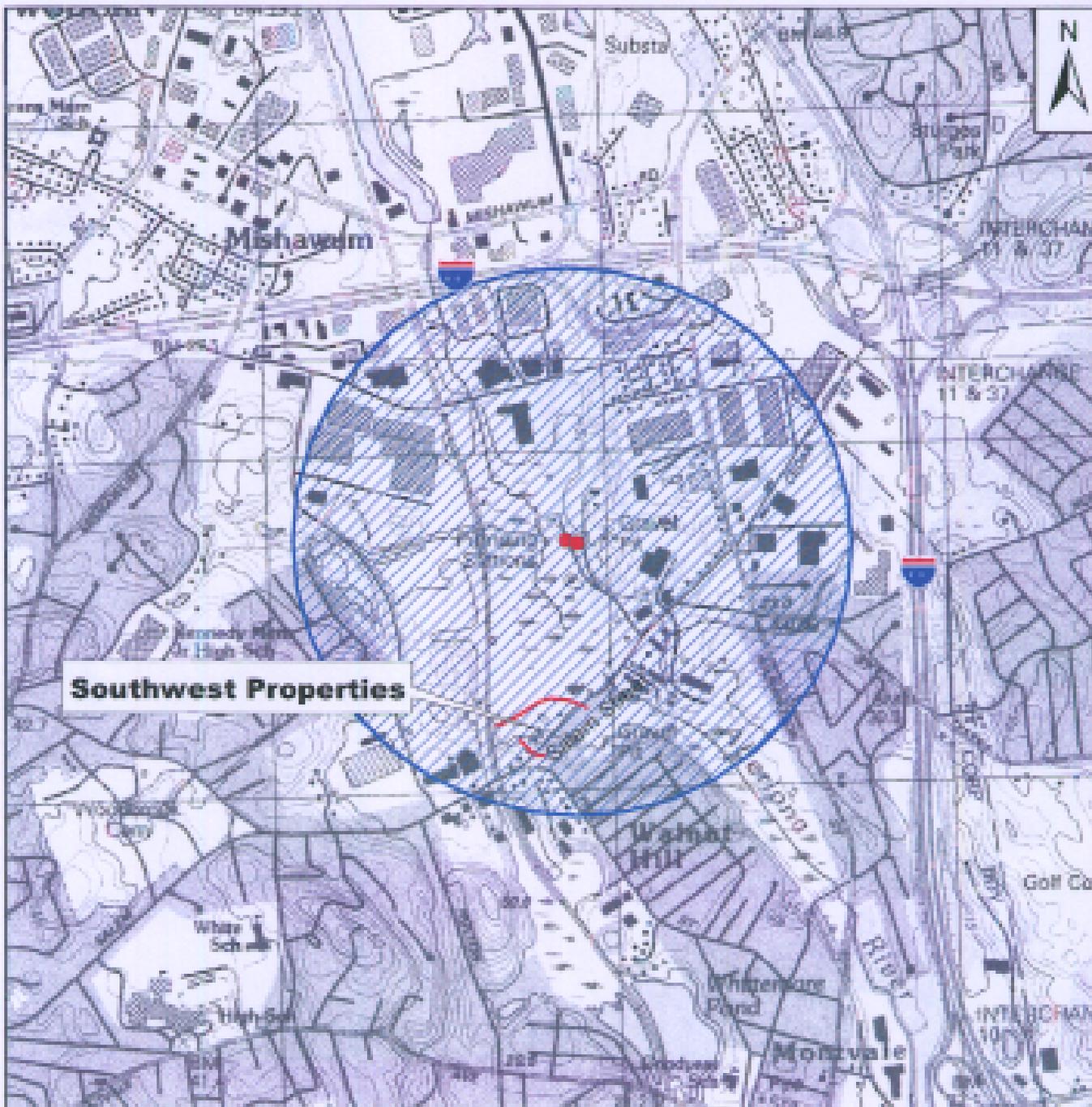
LEGEND

STREAM OR WETLAND

PROPERTY LINE



<p>FIGURE 3-1B FUTURE SCENARIO EXPOSURE POINTS</p> <p>SOUTHWEST PROPERTIES WELLS G&H SUPERFUND SITE OPERABLE UNIT 2 WOBURN, MASSACHUSETTS</p>	<p>TRC Boott Mills South Foot of John Street Lowell, MA 01852 978-970-5600</p>
<p>TRC PROJ. NO.: 02136-0390-01467</p>	
<p>EPA CONTRACT NO.: 68-W6-0042</p>	
<p>M&E Metcalf & Eddy</p>	
<p>RAC SUBCONTRACT NO.: 107061</p>	



Southwest Properties

1,500 750 0 1,500 Feet



Base map and spatial datalayers obtained from MassGIS, EDEA. Original vector data was compiled at 1:25,000-scale. Some inaccuracies may result if viewed at larger scales.

Please note that GIS data for Public Water Supply and WPA data are no longer immediately available to the public at MassGIS for security reasons. The data displayed were acquired prior to Sept. 11, 2001.

FIGURE 3-3
INTERIM WELLHEAD PROTECTION
AREA FOR WELLS G&H
WELLS G&H SUPERFUND SITE
OPERABLE UNIT 2
(SOUTHWEST PROPERTIES)
WOBURN, MASSACHUSETTS

M&E Metcalf & Eddy

TRC

Deot Mills South
 Part of John Street
 Lowell, MA 01852
 978-973-9500

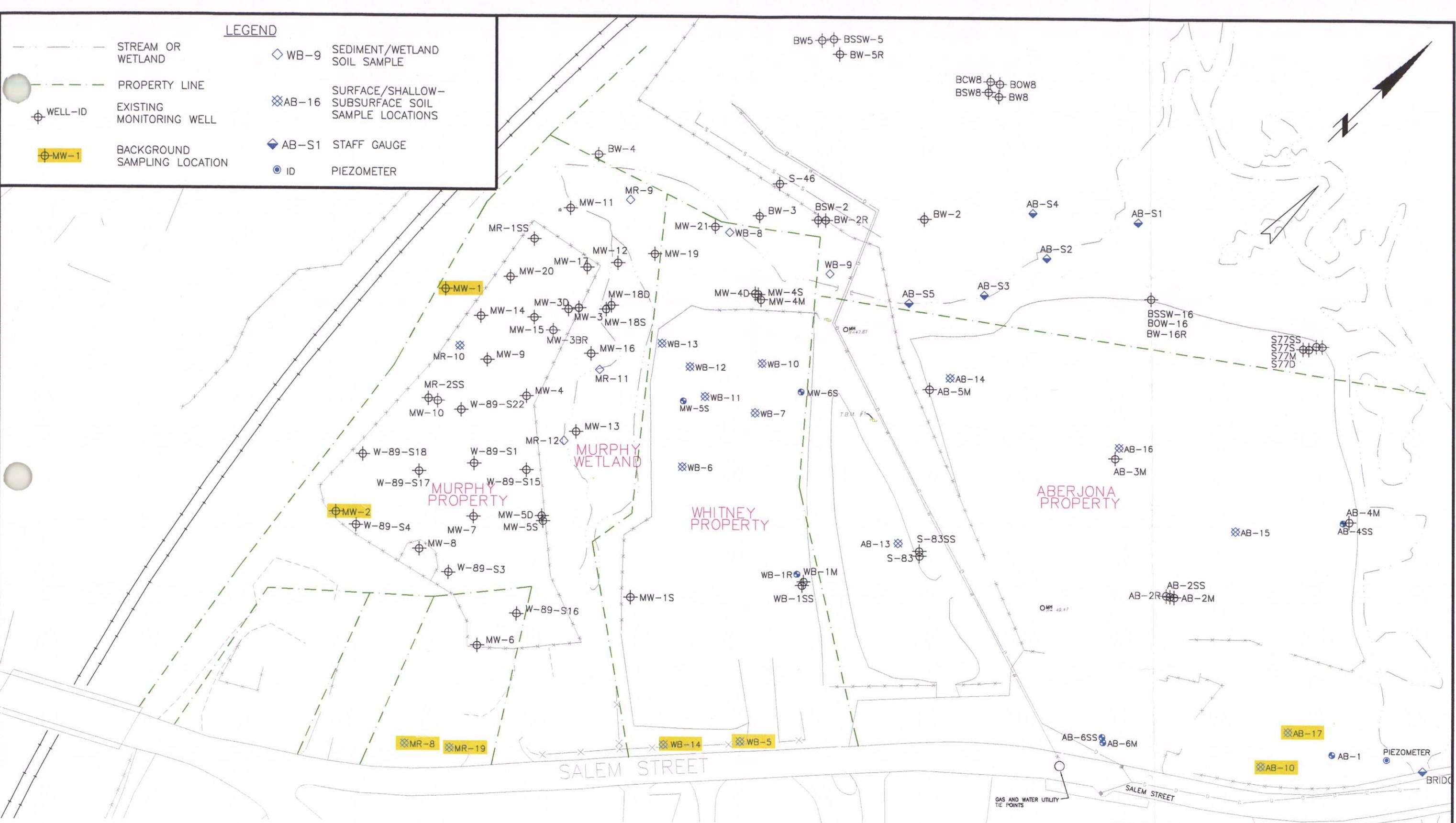
QUADRANGLE
 LOCATION



TRC PROJ. NO.: 00138 0380 01467

EPA CONTRACT NO.: 68-W6-0540

RAC SUBCONTRACT NO.: 107001



SOURCE:
 SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT, SOUTHWEST PROPERTIES,
 VOLUME I OF XXIII, WELLS G&H SUPERFUND SITE, WOBURN, MASSACHUSETTS,
 AUGUST 2003

FIGURE 3-3
 2003 SOIL AND GROUNDWATER
 BACKGROUND SAMPLING
 LOCATIONS
 SOUTHWEST PROPERTIES
 WELLS G&H SUPERFUND SITE
 OPERABLE UNIT 2
 WOBURN, MASSACHUSETTS

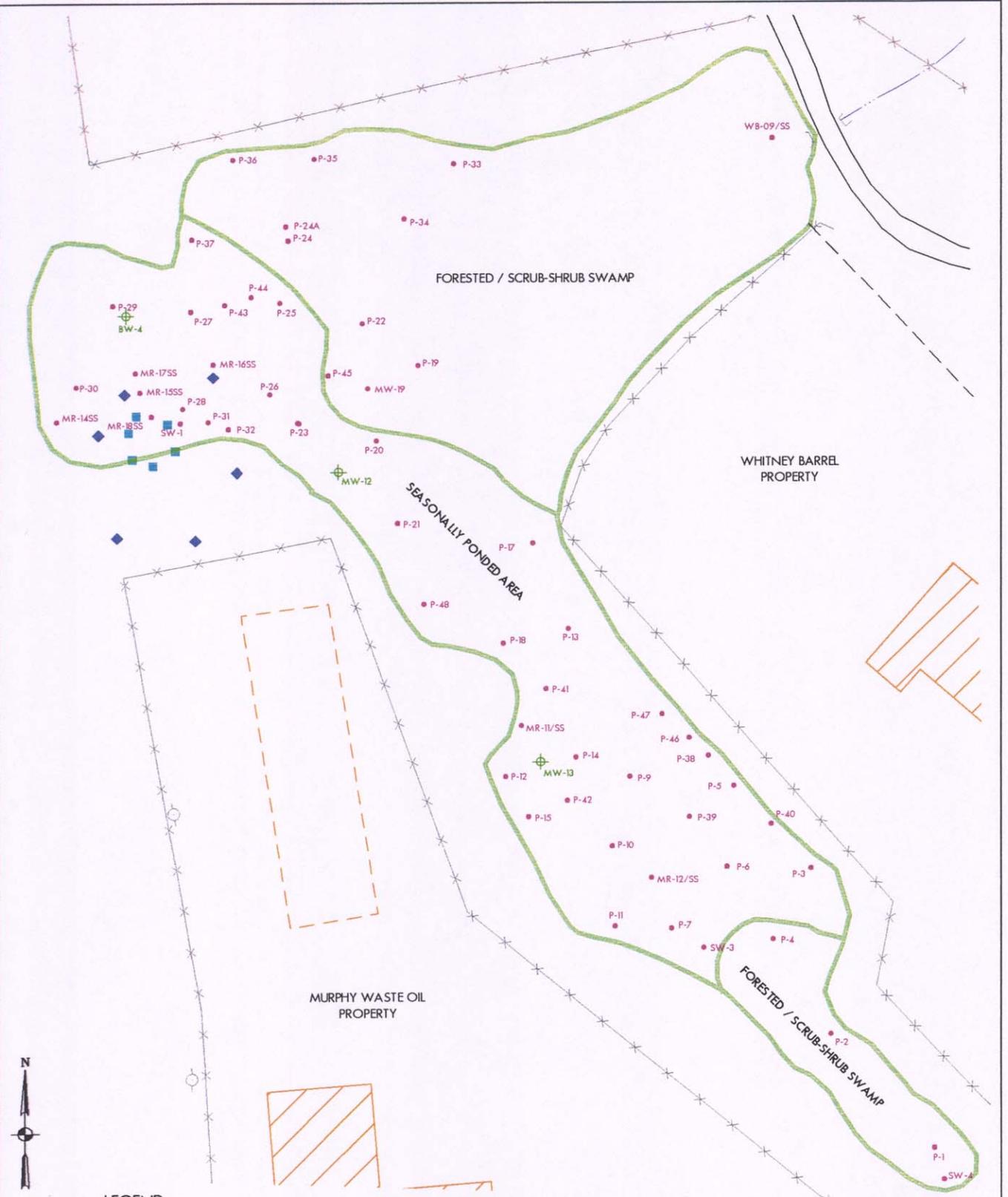
TRC Boott Mills South
 Foot of John Street
 Lowell, MA 01852
 978-970-5600

TRC PROJ. NO.: 02136-0390-01467

EPA CONTRACT NO.: 68-W6-0042

RAC SUBCONTRACT NO.: 107061

M&E Metcalf & Eddy



LEGEND:

- SEDIMENT SAMPLE
- ⊕ SURFACE WATER SAMPLE
- LIMITS OF MURPHY WETLAND
- MR-13SS1 ■ SEDIMENT (COMPOSITE)
- MR-13SS2 ◆ SEDIMENT (COMPOSITE)

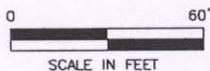


FIGURE 4-1
MURPHY WETLAND-HABITAT COVER
TYPES AND SAMPLING LOCATIONS
SOUTHWEST PROPERTIES
SUPERFUND SITE OU-2
WOBURN, MASSACHUSETTS

TRC Boott Mills South
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 Lowell, MA 01852
 978-970-5600

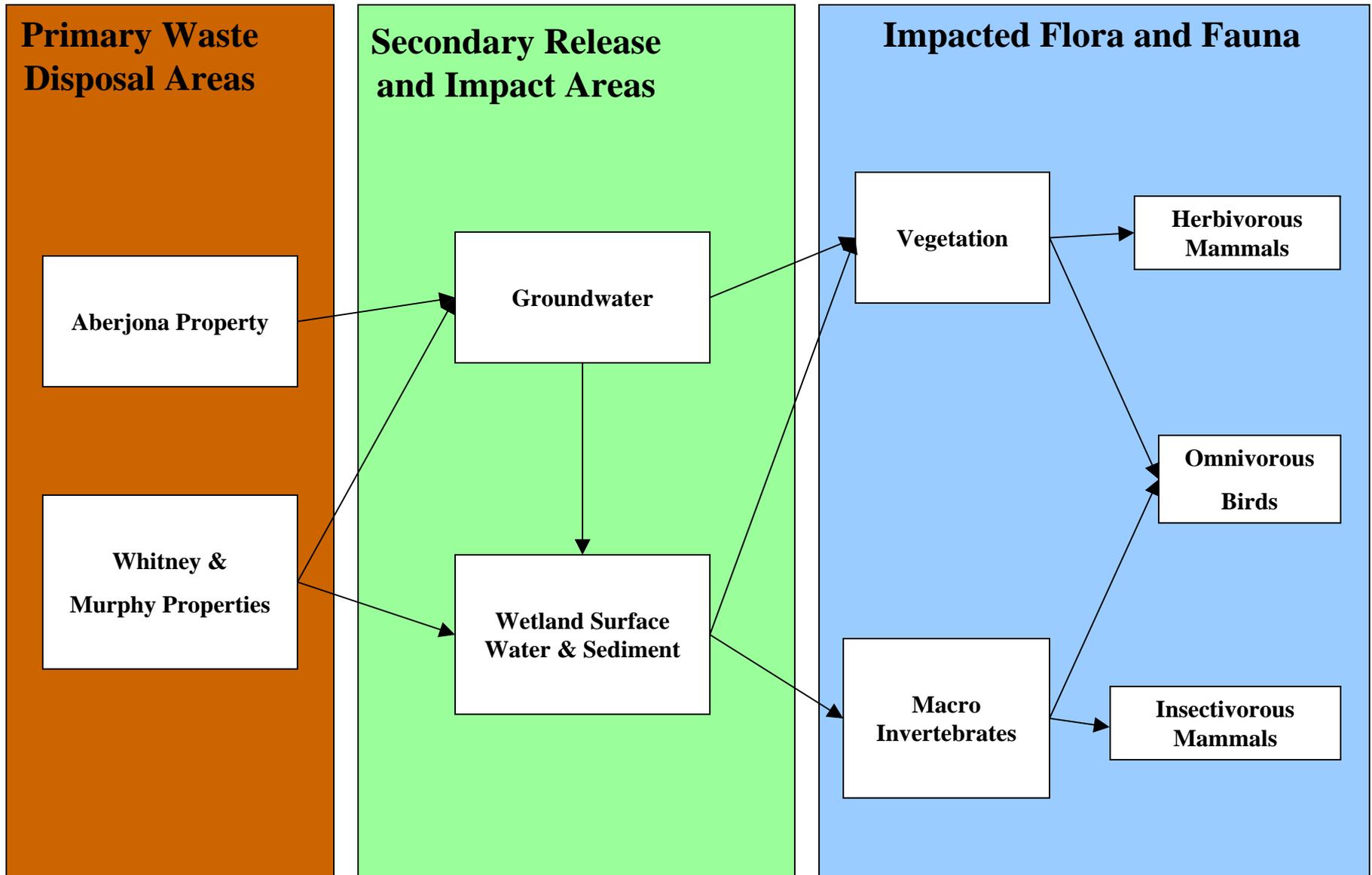
TRC PROJ. NO.: 02136-0390-01467

EPA CONTRACT NO.: 68-W6-0042

RAC SUBCONTRACT NO.: 107061

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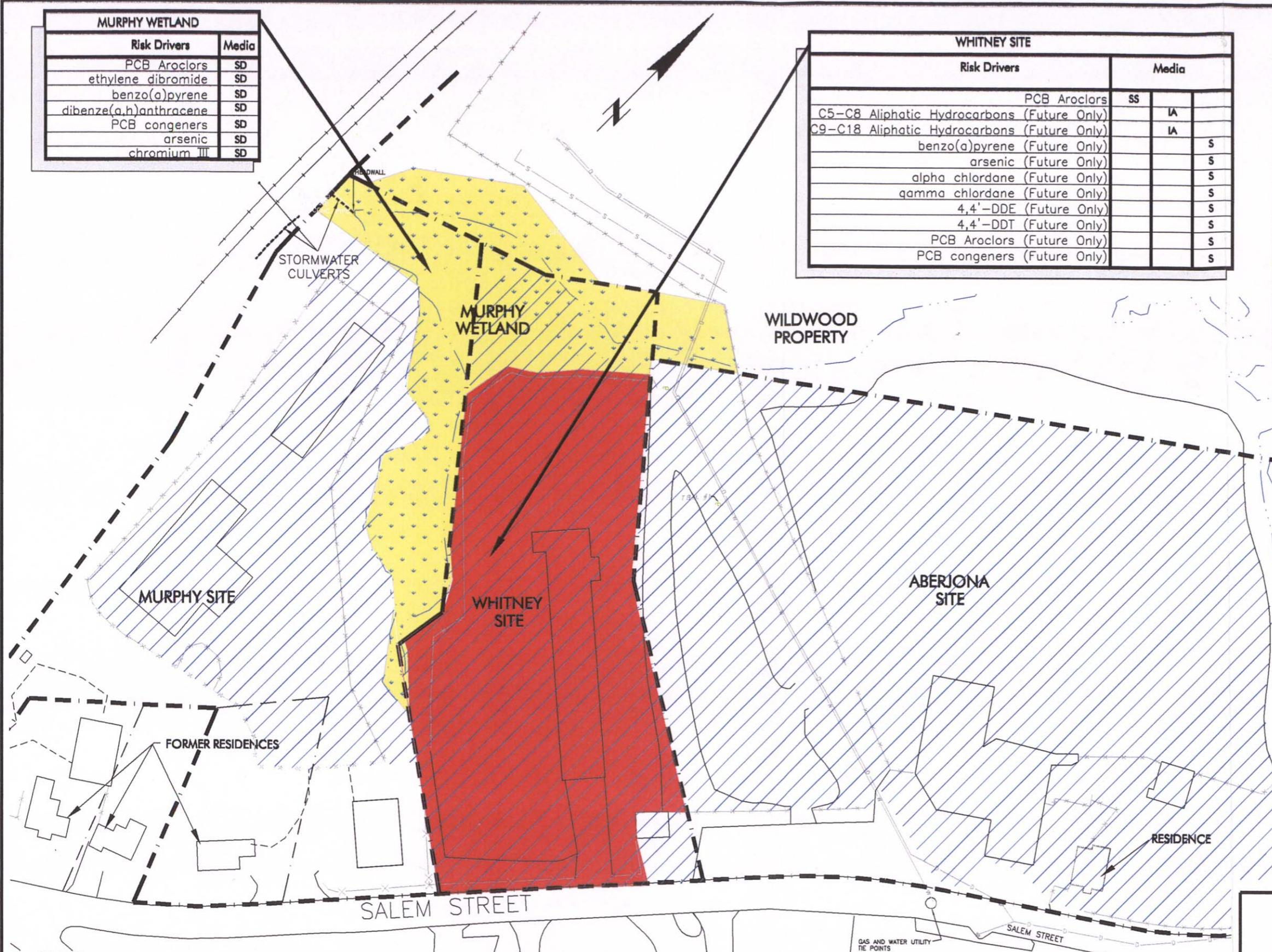
Figure 4-2. Conceptual Site Model for Wells G&H Superfund Site OU-2



MURPHY WETLAND	
Risk Drivers	Media
PCB Aroclors	SD
ethylene dibromide	SD
benzo(a)pyrene	SD
dibenze(a,h)anthracene	SD
PCB congeners	SD
arsenic	SD
chromium III	SD

WHITNEY SITE			
Risk Drivers	Media		
PCB Aroclors	SS	IA	
C5-C8 Aliphatic Hydrocarbons (Future Only)		IA	
C9-C18 Aliphatic Hydrocarbons (Future Only)		IA	
benzo(a)pyrene (Future Only)			S
arsenic (Future Only)			S
alpha chlordane (Future Only)			S
gamma chlordane (Future Only)			S
4,4'-DDE (Future Only)			S
4,4'-DDT (Future Only)			S
PCB Aroclors (Future Only)			S
PCB congeners (Future Only)			S

GROUNDWATER RISK TO OFF-SITE RESIDENT		
Risk Drivers	Media	
1,3-dichlorobenzene	DW	
benzene	DW	IS
chlorodibromomethane	DW	
cis-1,2-dichloroethene	DW	
methyl tert butyl ether	DW	
methylene chloride	DW	
tetrachloroethene	DW	IS
trichloroethene	DW	IS
vinyl chloride	DW	IS
benzo(a)pyrene	DW	
dibenze(a,h)anthracene	DW	
C9-C18 Aliphatic Hydrocarbons	DW	
C11-C22 Aromatic Hydrocarbons	DW	
arsenic	DW	
manganese	DW	
PCB congeners	DW	
dieldrin	DW	
4,4'-DDD	DW	
1,1,2-trichloroethane		IS

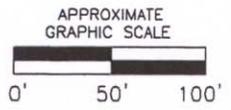


LEGEND:

- COPCs CONTRIBUTING TO FUTURE RISK.
- COPCs CONTRIBUTING TO CURRENT AND FUTURE FOR RISK DRIVERS SHOWN.
- GROUNDWATER WITH FUTURE DW/IS RISK TO OFFSITE RESIDENT

Affected Media	
Surface Soil	SS
Subsurface Soil	S
Indoor Air	IA
Inhalation During Showering	IS
Sediment	SD
Groundwater/Drinking Water	DW

Note:
Risk Drivers (ILCR > 10⁻⁶ and Target Organ HI > 1)



SOURCE:
SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT, SOUTHWEST PROPERTIES,
VOLUME I OF XXIII, WELLS G&H SUPERFUND SITE, WOBURN, MASSACHUSETTS,
AUGUST 2003

LEGEND

- WETLAND
- STREAM OR WETLAND
- PROPERTY LINE

FIGURE 5-1
HUMAN HEALTH
RISK SUMMARY

SOUTHWEST PROPERTIES
WELLS G&H SUPERFUND SITE
OPERABLE UNIT 2
WOBURN, MASSACHUSETTS

M&E Metcalf & Eddy

TRC Boott Mills South
Foot of John Street
Lowell, MA 01852
978-970-5600

TRC PROJ. NO.: 02136-0390-01467

EPA CONTRACT NO.: 68-W6-0042

RAC SUBCONTRACT NO.: 107061

RISK DRIVERS		
SEDIMENT ORGANISMS	MUSKRAT	SHREW

MURPHY SITE

COPCs CONTRIBUTING TO RISK	
PCB AROCLORS	
PCB CONGENERS	
CHROMIUM	
LEAD	
ZINC	

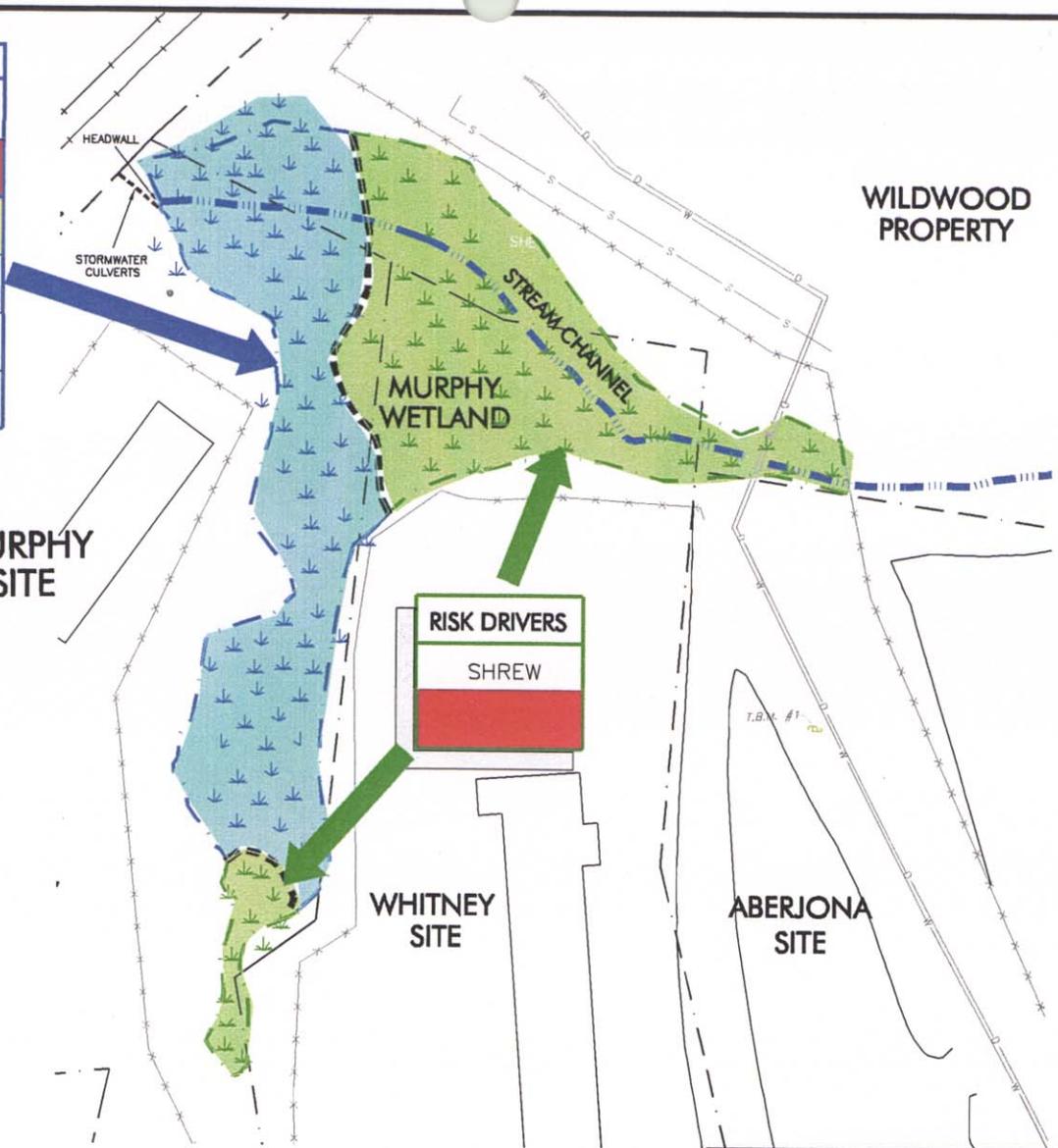
LEGEND

 FORESTED SCRUB SHRUB WETLAND AREA

 SEASONALLY PONDED WETLAND AREA

-  APPROXIMATE PONDED/FORESTED WETLAND BOUNDARY
-  STREAM OR WETLAND
-  PROPERTY LINE

SOURCE:
 SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT, SOUTHWEST PROPERTIES,
 VOLUME I OF XXIII, WELLS G&H SUPERFUND SITE, WOBURN, MASSACHUSETTS,
 AUGUST 2003



WILDWOOD PROPERTY

WHITNEY SITE

ABERJONA SITE

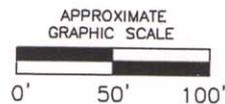


FIGURE 5-2
 ECOLOGICAL RISK
 ASSESSMENT SUMMARY
 SOUTHWEST PROPERTIES
 WELLS G&H SUPERFUND SITE
 OPERABLE UNIT 2
 WOBURN, MASSACHUSETTS

M&E Metcalf & Eddy

TRC Boott Mills South
 Foot of John Street
 Lowell, MA 01852
 978-970-5800

TRC PROJ. NO.: 02136-0390-01467

EPA CONTRACT NO.: 68-W6-0042

RAC SUBCONTRACT NO.: 107061