

SURFACE SEDIMENT CRITERIA EXCEEDANCE – ORGANIC COMPOUNDS – REACH 1

MSGRP REMEDIAL INVESTIGATION REPORT

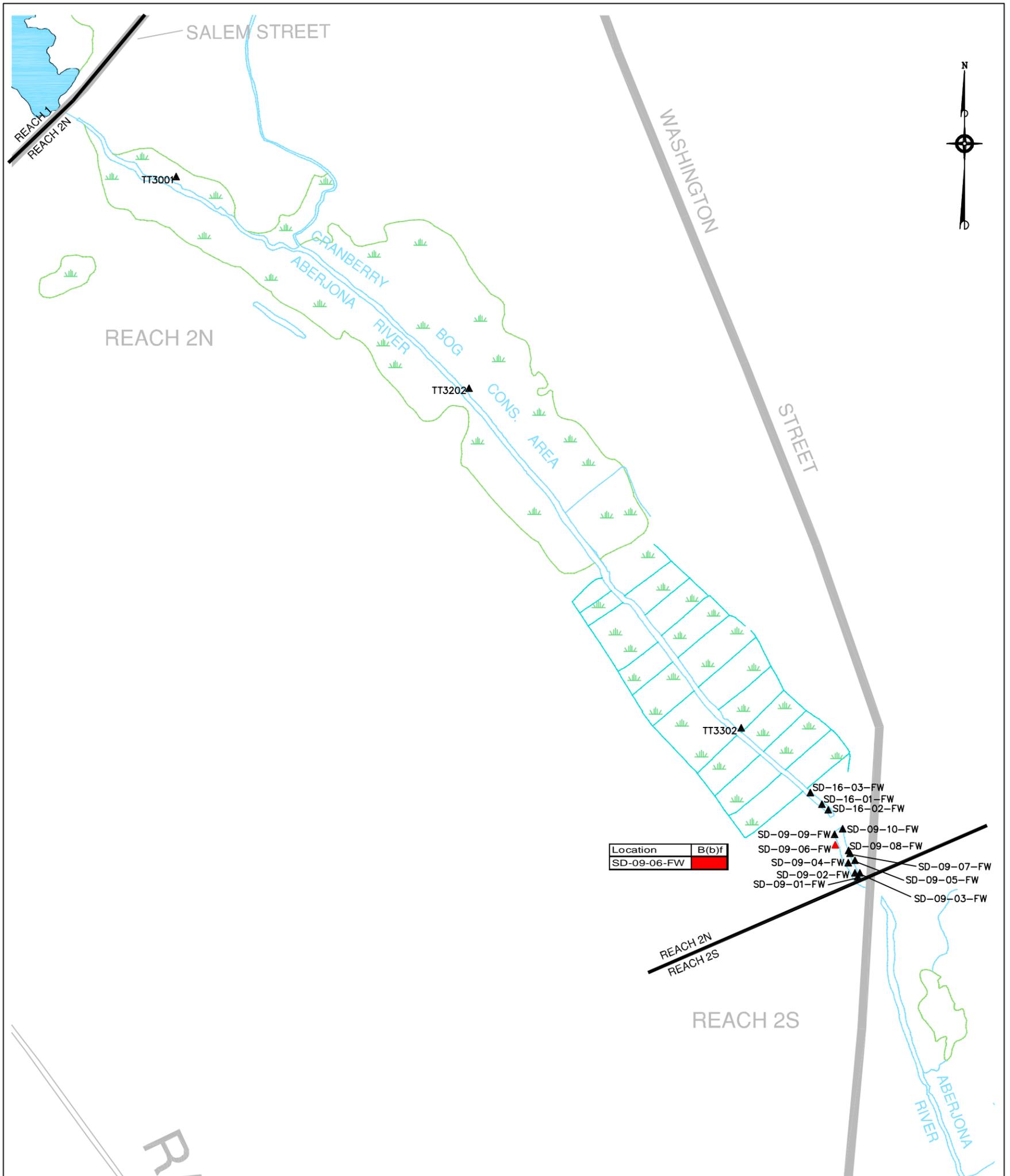
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

DRAWN BY:	D.W. MACDOUGALL	REV.:	0
CHECKED BY:	DIANE BAXTER	DATE:	MARCH 11, 2005
SCALE:	AS SHOWN	FILE NO.:	DWG\4123\0910\ORGANICS_REACH_1-SD.DWG

FIGURE 4-4q

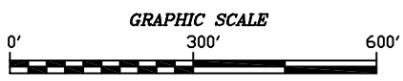
**TT** TETRA TECHNUS, INC.

55 Jonspin Road Wilmington, MA 01887  
(978)658-7899



Location	B(b)f
SD-09-06-FW	

- SD-16-03-FW
- SD-16-01-FW
- SD-16-02-FW
- SD-09-09-FW
- SD-09-10-FW
- SD-09-06-FW
- SD-09-08-FW
- SD-09-04-FW
- SD-09-07-FW
- SD-09-02-FW
- SD-09-05-FW
- SD-09-01-FW
- SD-09-03-FW



**NOTES:**

1. STREET, WATERWAY AND TOWNSHIP BOUNDARY LOCATIONS, UNLESS OTHERWISE NOTED, FROM MASSACHUSETTS GIS AND CITY OF WOBURN ENGINEERING DEPT.
2. ALL SAMPLE LOCATIONS OBTAINED BY GPS UNLESS OTHERWISE NOTED.
3. FOSTER WHEELER SEDIMENT SAMPLES OF THE "02" & "03" SERIES (I.E. SD-17-02FW) LOCATIONS APPROXIMATED BASED ON MEASUREMENTS CONTAINED IN FIELD NOTES.
4. WELL G & H LOCATIONS (IF SHOWN) OBTAINED FROM A PLAN BY GEOTRANS, INC. ENTITLED: "DATA LOCATION MAP, G & H SITE", PLATE 2-1, DATED: 11/15/93, REVISED: 9/25/96, ORIGINAL SCALE: 1"=200', DATUM OF PLAN: NAD 27 FEET.
5. HIDE PILE LOCATIONS FROM A PLAN BY MERIDIAN LAND SERVICES, INC., ENTITLED: "PROJECT RECORD, EAST SIDE UNDEVELOPED PROPERTIES, REMEDIATED AREAS, INDUSTRI-PLEX SITE REMEDIAL TRUST, WOBURN, MASSACHUSETTS", DATED: MARCH 2, 2001, C-6.
6. PLAN COORDINATES IN NAD 83 FEET.
7. ALL LOCATIONS CONVERTED FROM ORIGINAL DATUM TO NAD 83 FEET USING BLUE MARBLE GEOGRAPHIC CALCULATOR SOFTWARE (VERSION 4.2).
8. PLAN NOT TO BE USED FOR DESIGN.
9. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE.
10. THE WATERWAY BOUNDARIES SHOWN MAY NOT REPRESENT THE LIMITS OF THE WATERWAYS AT THE TIME OF SAMPLING DUE TO SEASONAL VARIATIONS IN WATERWAY BOUNDARIES AND POTENTIAL ERRORS IN WATERWAY MAPPING.

Location	B(b)f	BEHP	B
MC-05			
MC-06			

Red boxes indicate compounds that exceed all applicable criteria

Abbreviations for Organic Compounds	
B	Benzene
B(b)f	Benzo(b)fluoranthene
BEHP	bis(2-Ethylhexyl)phthalate
PCE	Tetrachloroethene
TCE	Trichloroethene
VC	Vinyl Chloride

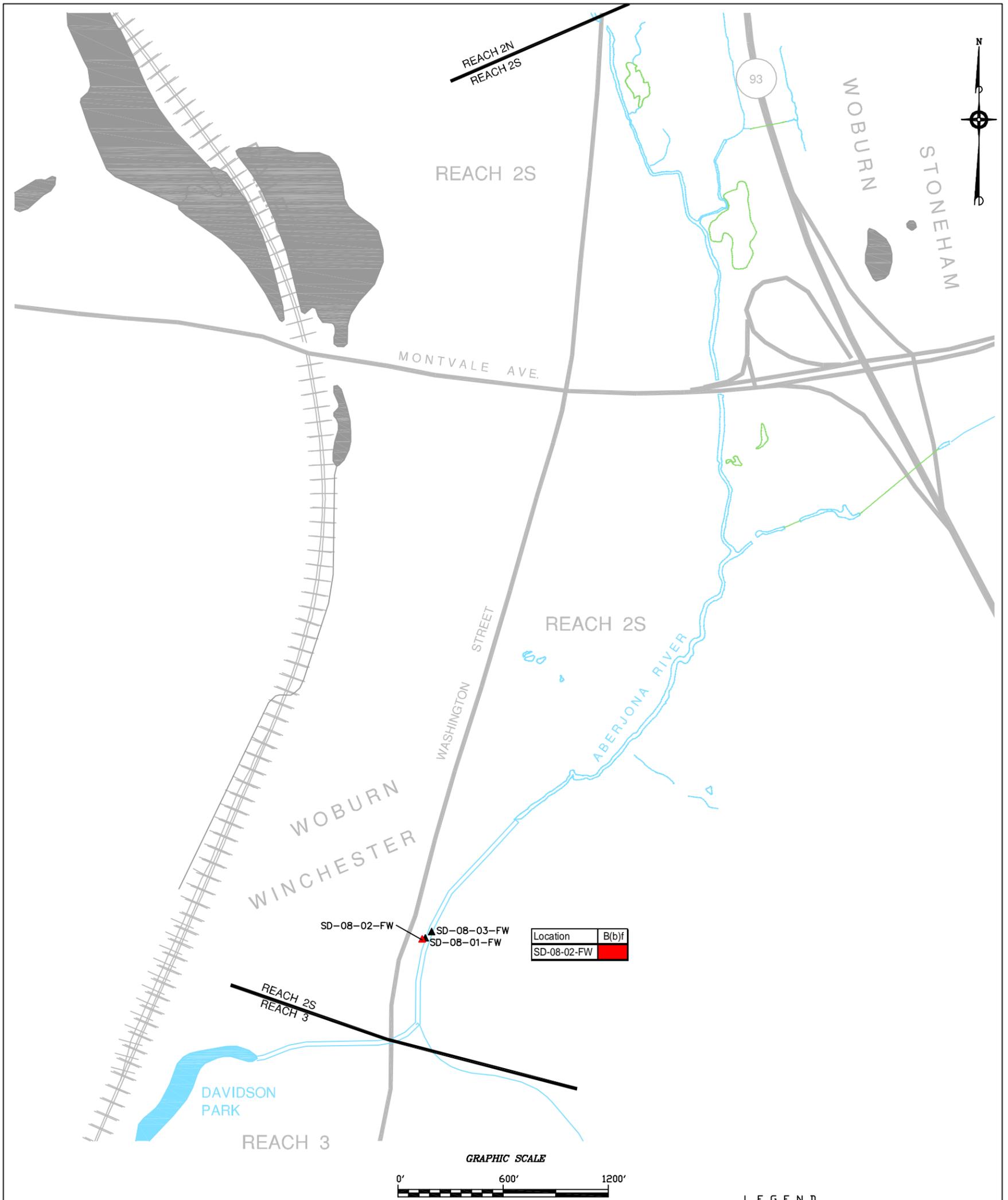
**LEGEND**

- ▲ SURFACE SEDIMENT SAMPLE LOCATION WHERE ALL APPLICABLE CRITERIA ARE EXCEEDED FOR ANY ORGANIC COMPOUND. REFERENCE CRITERIA:
  - EPA REGION 9 PRG (2004)
  - OMEE SEL (1993)
  - STUDY AREA AVG. BACKGROUND CONC.
 SEE TABLE 4-4c FOR APPLICABLE CRITERIA FOR INDIVIDUAL ORGANICS.
- ▲ SURFACE SEDIMENT SAMPLE LOCATION WHERE SAMPLE ANALYZED FOR ORGANICS, BUT NONE EXCEEDED ALL APPLICABLE CRITERIA. MOST LOCATIONS ANALYZED FOR VOCs, SVOCs, AND PESTICIDES/PCBs. SEE TABLES 2-4 AND 2-5 FOR ANALYSES AT SPECIFIC LOCATIONS.
- WETLANDS AREA
- ABERJONA RIVER OR OTHER OPEN STREAM
- CULVERTED RIVER SECTION
- PONDED WATER AREA
- REACH BOUNDARY

SURFACE SEDIMENT CRITERIA EXCEEDANCE - ORGANIC COMPOUNDS - REACH 2N	
MSGRP REMEDIAL INVESTIGATION REPORT	
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS	
DRAWN BY: D.W. MACDOUGALL	REV.: 0
CHECKED BY: D. BAXTER	DATE: MARCH 11, 2005
SCALE: AS SHOWN	FILE NO.: DWG\4123\0910\ORGANICS_REACH_2N_SD.DWG

FIGURE 4-4r

**TETRA TECH NUS, INC.**  
 55 Jonspin Road      Wilmington, MA 01887  
 (978)658-7899



Location	B(b)f
SD-08-02-FW	

Location	B(b)f	BEHP	B
MC-05			
MC-06			

Red boxes indicate compounds that exceed all applicable criteria

Abbreviations for Organic Compounds	
B	Benzene
B(b)f	Benzo(b)fluoranthene
BEHP	bis(2-Ethylhexyl)phthalate
PCE	Tetrachloroethene
TCE	Trichloroethene
VC	Vinyl Chloride

**LEGEND**

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- CULVERTED RIVER SECTION
- PONDED WATER AREA
- REACH BOUNDARY

**NOTES:**

1. STREET, WATERWAY AND TOWNSHIP BOUNDARY LOCATIONS, UNLESS OTHERWISE NOTED, FROM MASSACHUSETTS GIS AND CITY OF WOBURN ENGINEERING DEPT.
2. ALL SAMPLE LOCATIONS OBTAINED BY GPS UNLESS OTHERWISE NOTED.
3. FOSTER WHEELER SEDIMENT SAMPLES OF THE "02" & "03" SERIES (I.E. SD-17-02FW) LOCATIONS APPROXIMATED BASED ON MEASUREMENTS CONTAINED IN FIELD NOTES.
4. WELL G & H LOCATIONS (IF SHOWN) OBTAINED FROM A PLAN BY GEOTRANS, INC. ENTITLED: "DATA LOCATION MAP, G & H SITE", PLATE 2-1, DATED: 11/15/93, REVISED: 9/25/96, ORIGINAL SCALE: 1"=200', DATUM OF PLAN: NAD 27 FEET.
5. HIDE PILE LOCATIONS FROM A PLAN BY MERIDIAN LAND SERVICES, INC., ENTITLED: "PROJECT RECORD, EAST SIDE UNDEVELOPED PROPERTIES, REMEDIATED AREAS, INDUSTRI-PLEX SITE REMEDIAL TRUST, WOBURN, MASSACHUSETTS", DATED: MARCH 2, 2001, C-6.
6. PLAN COORDINATES IN NAD 83 FEET.
7. ALL LOCATIONS CONVERTED FROM ORIGINAL DATUM TO NAD 83 FEET USING BLUE MARBLE GEOGRAPHIC CALCULATOR SOFTWARE (VERSION 4.2).
8. PLAN NOT TO BE USED FOR DESIGN.
9. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE.
10. THE WATERWAY BOUNDARIES SHOWN MAY NOT REPRESENT THE LIMITS OF THE WATERWAYS AT THE TIME OF SAMPLING DUE TO SEASONAL VARIATIONS IN WATERWAY BOUNDARIES AND POTENTIAL ERRORS IN WATERWAY MAPPING.

SURFACE SEDIMENT CRITERIA EXCEEDANCE - ORGANIC COMPOUNDS - REACH 2S

FIGURE 4-4s

MSGRP REMEDIAL INVESTIGATION REPORT  
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS



TETRA TECH NUS, INC.

DRAWN BY: D.W. MACDOUGALL

REV.: 0

CHECKED BY: D. BAXTER

DATE: MARCH 11, 2005

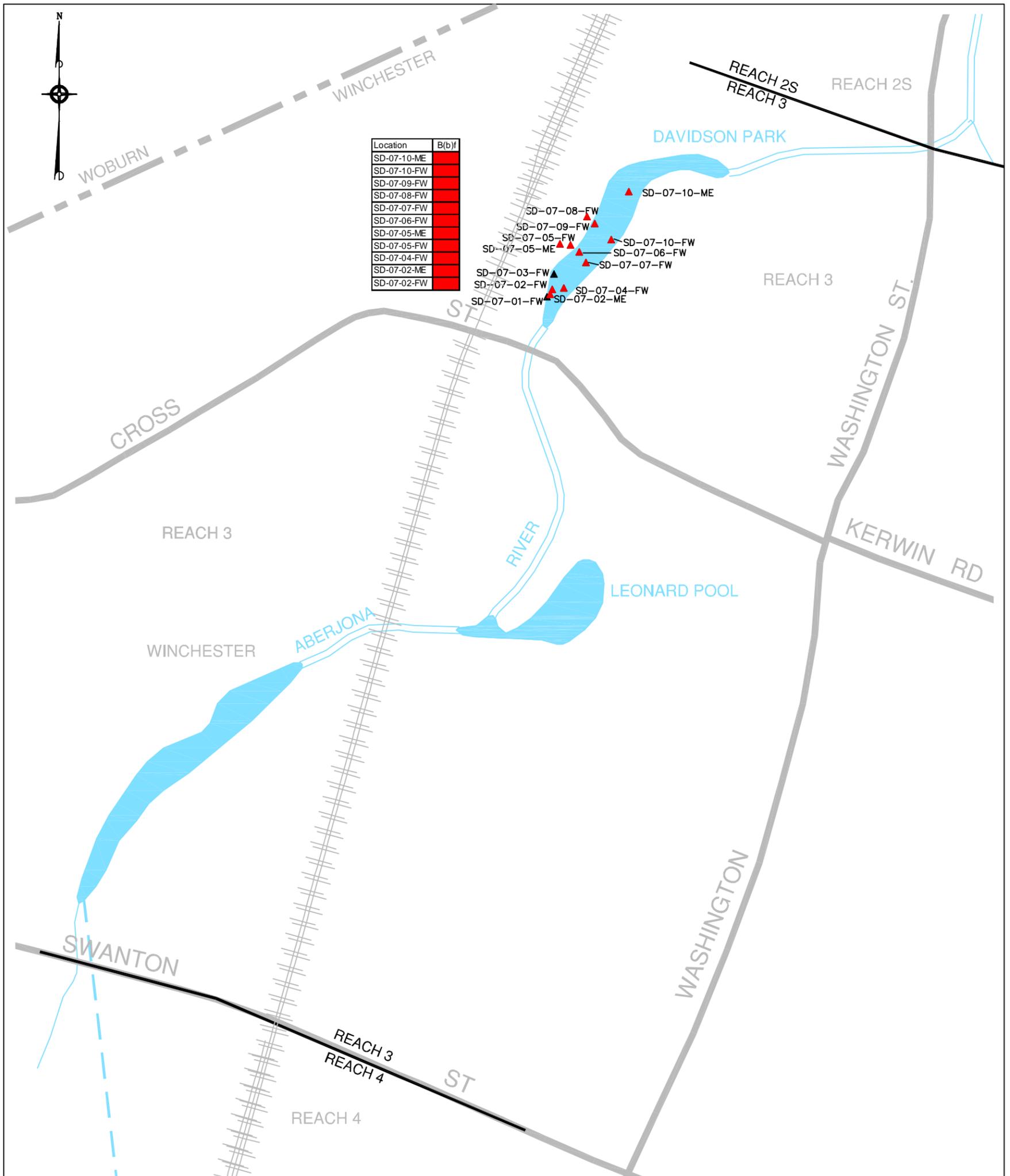
SCALE: AS SHOWN

FILE NO.: DWG\4123\0910\ORGANICS\_REACH\_2S\_SD.DWG

55 Jonspin Road

Wilmington, MA 01887

(978)658-7899



Location	B(b)F
SD-07-10-ME	Red
SD-07-10-FW	Red
SD-07-09-FW	Red
SD-07-08-FW	Red
SD-07-07-FW	Red
SD-07-06-FW	Red
SD-07-05-ME	Red
SD-07-05-FW	Red
SD-07-04-FW	Red
SD-07-02-ME	Red
SD-07-02-FW	Red

Location	B(b)F	BEHP	B
MC-05	Red	Red	Red
MC-06	Red	Red	Red

Red boxes indicate compounds that exceed all applicable criteria

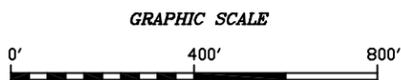
Abbreviations for Organic Compounds	
B	Benzene
B(b)F	Benzo(b)fluoranthene
BEHP	bis(2-Ethylhexyl)phthalate
PCE	Tetrachloroethene
TCE	Trichloroethene
VC	Vinyl Chloride

**LEGEND**

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- WETLANDS AREA
- ABERJONA RIVER OR OTHER OPEN STREAM
- CULVERTED RIVER SECTION
- PONDED WATER AREA
- REACH BOUNDARY

**NOTES:**

1. STREET, WATERWAY AND TOWNSHIP BOUNDARY LOCATIONS, UNLESS OTHERWISE NOTED, FROM MASSACHUSETTS GIS AND CITY OF WOBURN ENGINEERING DEPT.
2. ALL SAMPLE LOCATIONS OBTAINED BY GPS UNLESS OTHERWISE NOTED.
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7. ALL LOCATIONS CONVERTED FROM ORIGINAL DATUM TO NAD 83 FEET USING BLUE MARBLE GEOGRAPHIC CALCULATOR SOFTWARE (VERSION 4.2).
8. PLAN NOT TO BE USED FOR DESIGN.
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10. THE WATERWAY BOUNDARIES SHOWN MAY NOT REPRESENT THE LIMITS OF THE WATERWAYS AT THE TIME OF SAMPLING DUE TO SEASONAL VARIATIONS IN WATERWAY BOUNDARIES AND POTENTIAL ERRORS IN WATERWAY MAPPING.



SURFACE SEDIMENT CRITERIA EXCEEDANCE - ORGANIC COMPOUNDS - REACH 3

FIGURE 4-4t

MSGRP REMEDIAL INVESTIGATION REPORT  
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

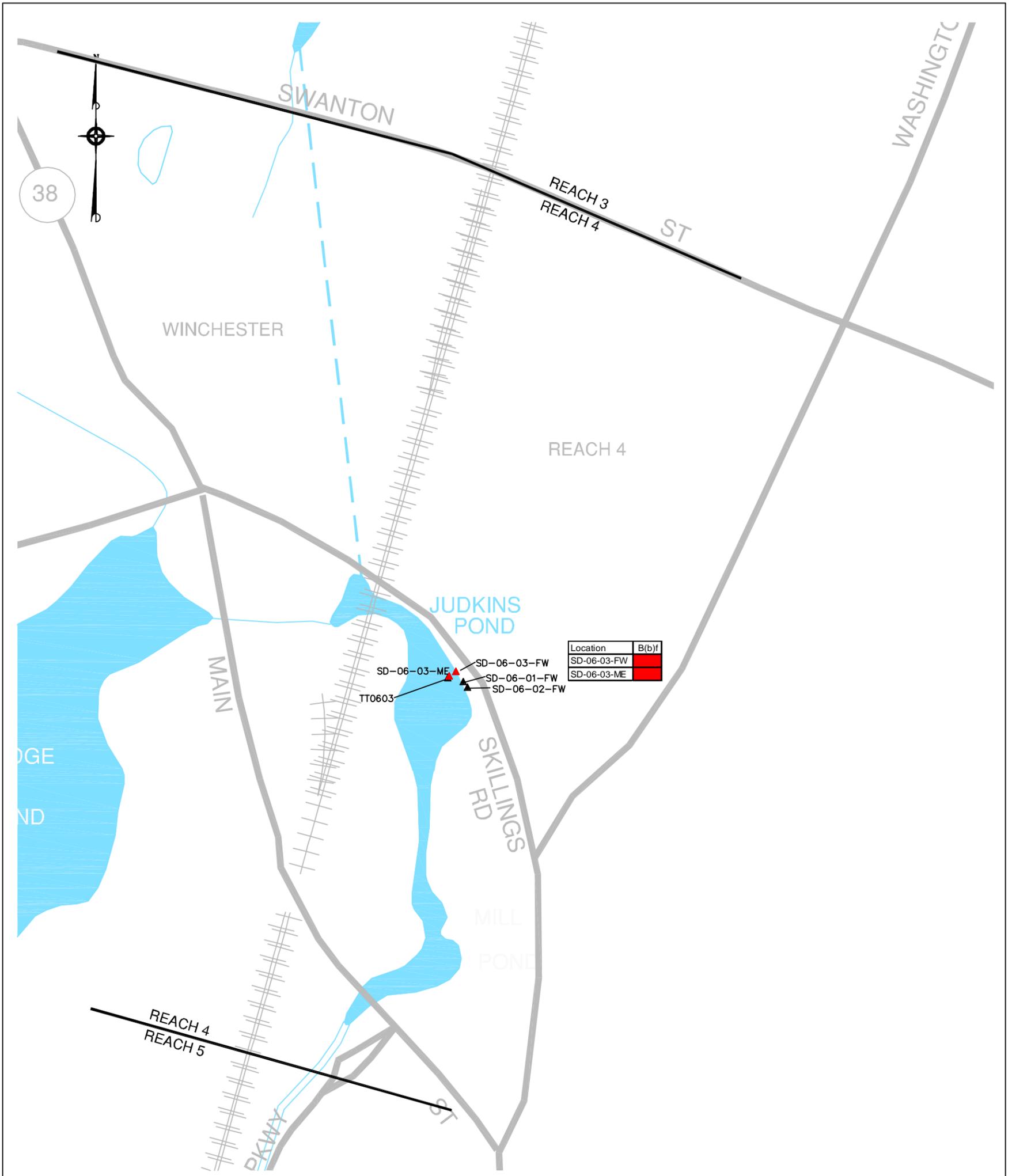


TETRA TECHNUS, INC.

DRAWN BY: D.W. MACDOUGALL  
CHECKED BY: D. BAXTER  
SCALE: AS SHOWN

REV.: 0  
DATE: MARCH 11, 2005  
FILE NO.: \DWG\4123\0910\ORGANICS\_REACH\_3\_SD.DWG

55 Jonspin Road Wilmington, MA 01887  
(978)658-7899



Location	B(b)f
SD-06-03-FW	Red
SD-06-03-ME	Red

Location	B(b)f	BEHP	B
MC-05	Red	Red	Red
MC-06	Red	Red	Red

Red boxes indicate compounds that exceed all applicable criteria

Abbreviations for Organic Compounds	
B	Benzene
B(b)f	Benz(a,b)fluoranthene
BEHP	bis(2-Ethylhexyl)phthalate
PCE	Tetrachloroethene
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  - REACH BOUNDARY

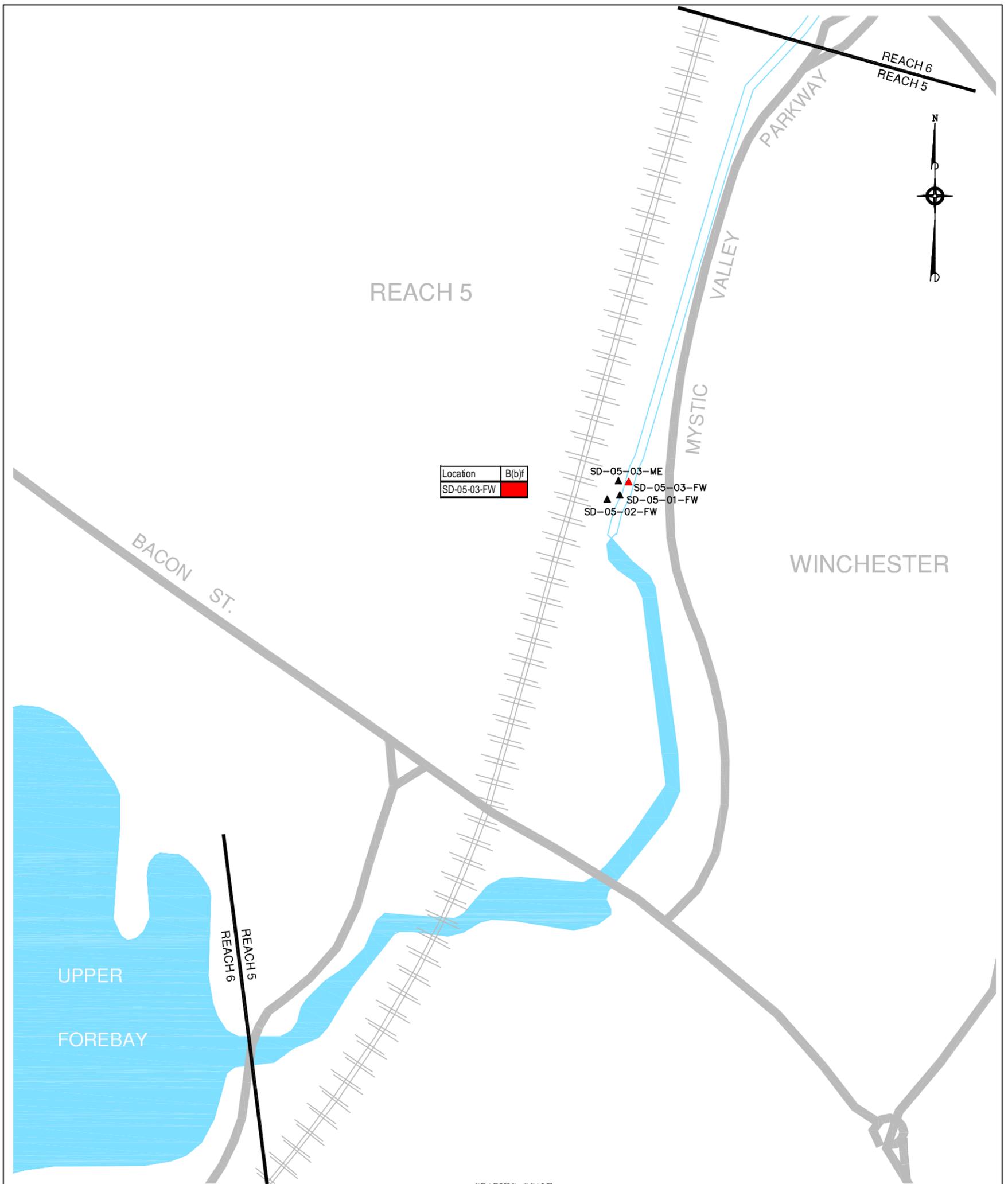
**NOTES:**

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SURFACE SEDIMENT CRITERIA EXCEEDANCE - ORGANIC COMPOUNDS - REACH 4	
MSGRP REMEDIAL INVESTIGATION REPORT	
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS	
DRAWN BY: D.W. MACDOUGALL	REV.: 0
CHECKED BY: D. BAXTER	DATE: MARCH 11, 2005
SCALE: AS SHOWN	FILE NO.: DWG\4123\0910\ORGANICS_REACH_4_SD.DWG

FIGURE 4-4u

**TT TETRA TECHNUS, INC.**  
 55 Jonspin Road Wilmington, MA 01887  
 (978)658-7899



Location	B(b)f
SD-05-03-FW	

Location	B(b)f	BEHP	B
MC-05			
MC-06			

Red boxes indicate compounds that exceed all applicable criteria

Abbreviations for Organic Compounds	
B	Benzene
B(b)f	Benzo(b)fluoranthene
BEHP	bis(2-Ethylhexyl)phthalate
PCE	Tetrachloroethene
TCE	Trichloroethene
VC	Vinyl Chloride

**LEGEND**

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- WETLANDS AREA
- ABERJONA RIVER OR OTHER OPEN STREAM
- CULVERTED RIVER SECTION
- PONDED WATER AREA
- REACH BOUNDARY

**NOTES:**

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2. ALL SAMPLE LOCATIONS OBTAINED BY GPS UNLESS OTHERWISE NOTED.
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10. THE WATERWAY BOUNDARIES SHOWN MAY NOT REPRESENT THE LIMITS OF THE WATERWAYS AT THE TIME OF SAMPLING DUE TO SEASONAL VARIATIONS IN WATERWAY BOUNDARIES AND POTENTIAL ERRORS IN WATERWAY MAPPING.

SURFACE SEDIMENT CRITERIA EXCEEDANCE - ORGANIC COMPOUNDS - REACH 5

FIGURE 4-4v

MSGRP REMEDIAL INVESTIGATION REPORT  
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

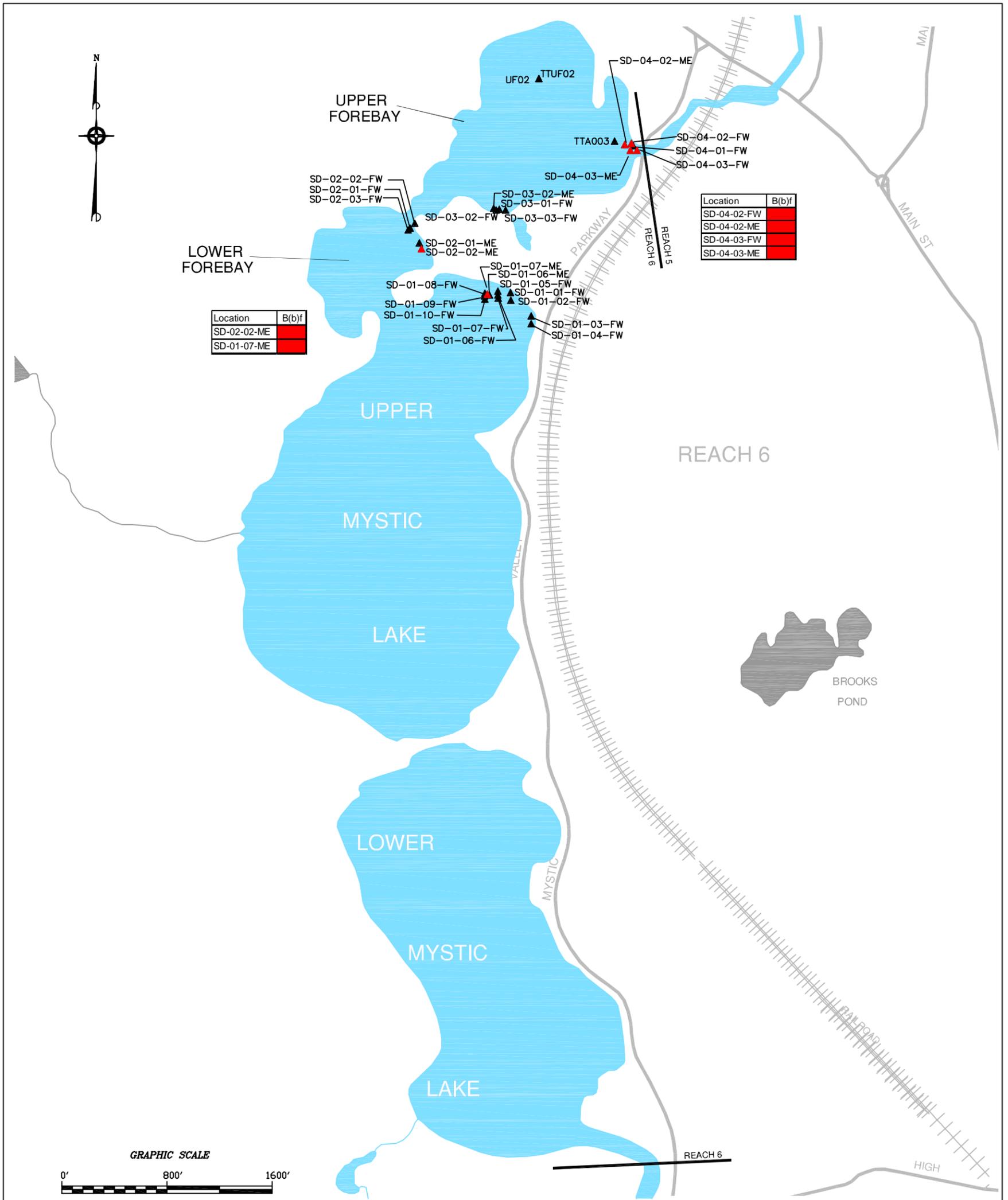


TETRA TECHNUS, INC.

DRAWN BY: D.W. MACDOUGALL  
CHECKED BY: D. BAXTER  
SCALE: AS SHOWN

REV.: 0  
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FILE NO.: DWG\4123\0910\ORGANICS\_REACH\_5\_SD.DWG

55 Jonspin Road Wilmington, MA 01887  
(978)658-7899



Location	B(b)f
SD-02-02-ME	Red
SD-01-07-ME	Red

Location	B(b)f
SD-04-02-FW	Red
SD-04-02-ME	Red
SD-04-03-FW	Red
SD-04-03-ME	Red

Location	B(b)f	BEHP	B
MC-05	Red	Red	Red
MC-06	Red	Red	Red

Red boxes indicate compounds that exceed all applicable criteria

Abbreviations for Organic Compounds	
B	Benzene
B(b)f	Benzo(b)fluoranthene
BEHP	bis(2-Ethylhexyl)phthalate
PCE	Tetrachloroethene
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- PONDED WATER AREA
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8. PLAN NOI TO BE USED FOR DESIGN.
9. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE.
10. THE WATERWAY BOUNDARIES SHOWN MAY NOT REPRESENT THE LIMITS OF THE WATERWAYS AT THE TIME OF SAMPLING DUE TO SEASONAL VARIATIONS IN WATERWAY BOUNDARIES AND POTENTIAL ERRORS IN WATERWAY MAPPING.

SURFACE SEDIMENT CRITERIA EXCEEDANCE - ORGANIC COMPOUNDS - REACH 6

FIGURE 4-4w

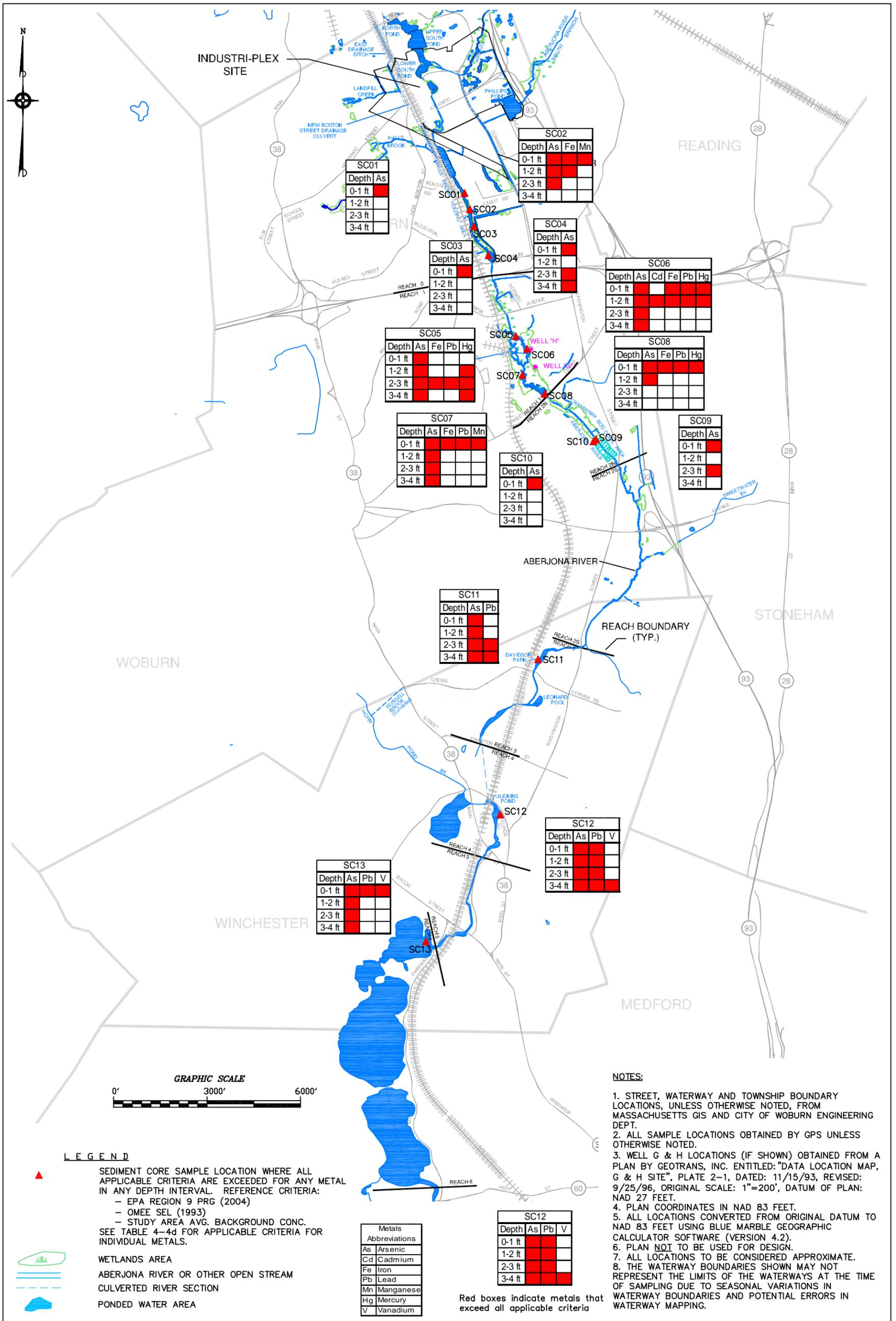
MSGRP REMEDIAL INVESTIGATION REPORT  
INDUSTRI-PLEX SITE. WOBURN, MASSACHUSETTS



TETRA TECH NUS, INC.

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55 Jonspin Road Wilmington, MA 01887  
(978)658-7899



SEDIMENT CORE SAMPLES CRITERIA EXCEEDANCES – METALS  
 MSGRP REMEDIAL INVESTIGATION REPORT  
 INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

FIGURE 4-4x



TETRA TECH NUS, INC.

DRAWN BY: D.W. MACDOUGALL  
 CHECKED BY: D. BAXTER

REV.: 0  
 DATE: MARCH 11, 2005

SCALE: AS SHOWN

FILE NO.: DWG\4123\0910\SED\_CORE\_EXCEED.DWG

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