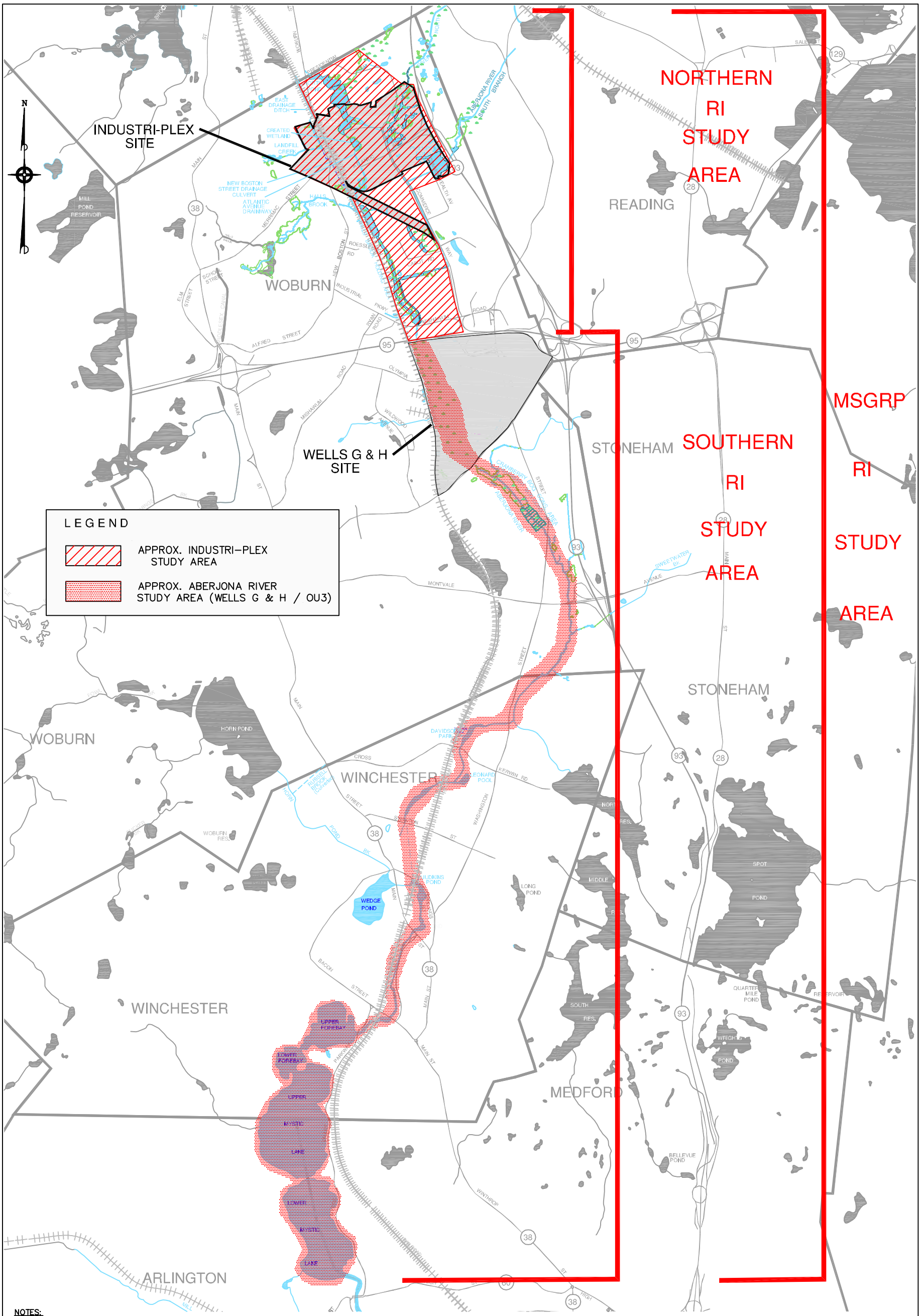
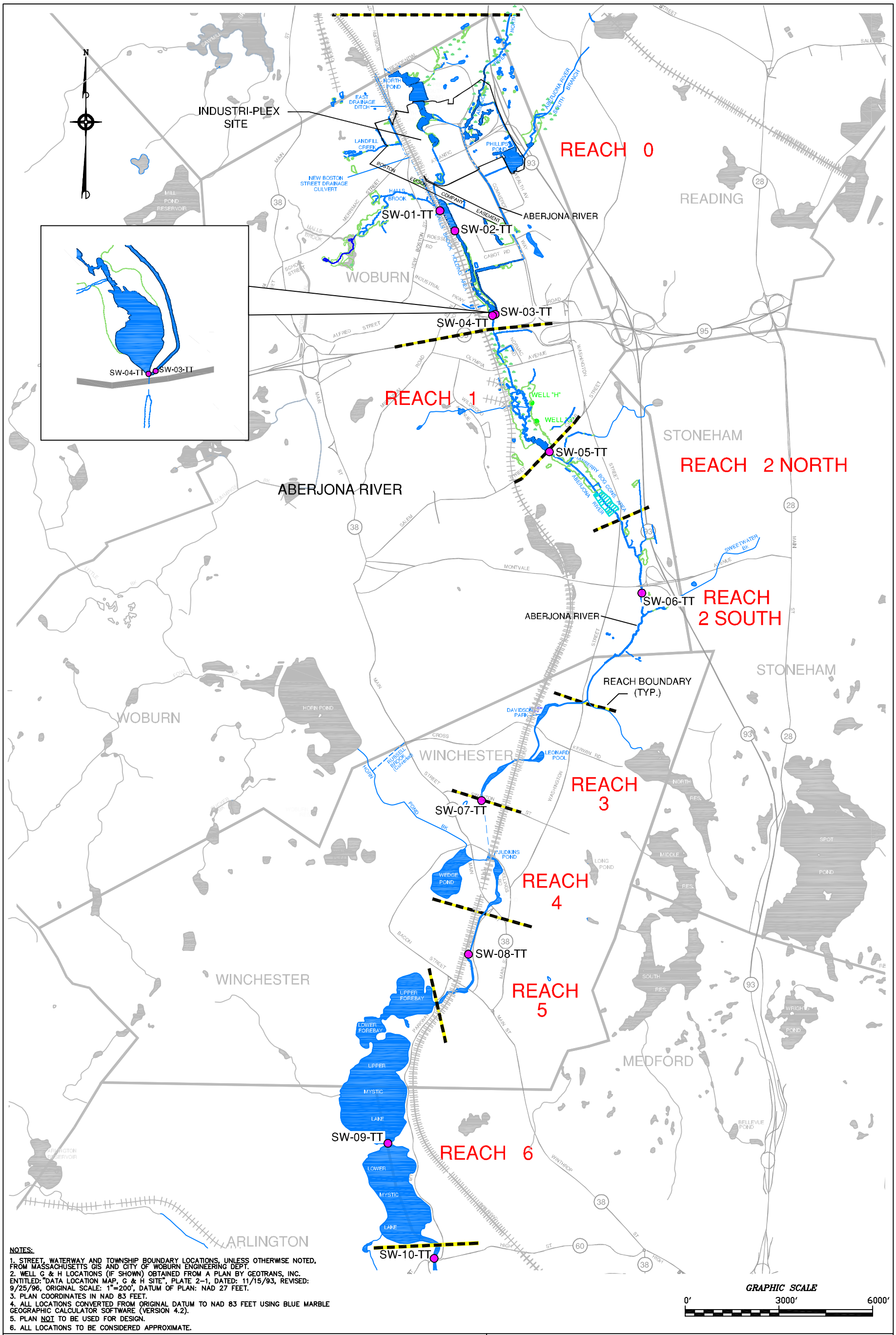
FIGURES



NOTES:
1. STREET & TOWNSHIP BOUNDARY LOCATIONS FROM MASSACHUSETTS GIS & CITY OF WOBURN ENGINEERING DEPT.
2. WATERWAY LOCATIONS FROM MASSACHUSETTS GIS & CITY OF WOBURN ENGINEERING DEPT.
3. LOCATIONS OBTAINED FROM ABOVE SOURCES CONVERTED FROM SOURCE DATUM TO NAD 83 FEET USING BLUE MARBLE GEOGRAPHIC CALCULATOR SOFTWARE (VERSION 4.2).
4. PLAN COORDINATES IN NAD 83 FEET.
5. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE; PLAN NOT TO BE USED FOR DESIGN.

MSGRP STUDY AREAS	FIGURE ES-1
MSGRP FEASIBILITY STUDY REPORT	
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS	
DRAWN BY: R.G. DEWSNAP / REV.: 0	TETRA TECH NUS, INC.
CHECKED BY: P. CALL / DATE: JUNE 22, 2005	55 Jonspin Road Wilmington, MA 01887 (978)658-7899
SCALE: AS SHOWN / FILE NO.: DWG\4123\1010\FIG_ES-1.DWG	



NOTES:

1. STREET, WATERWAY AND TOWNSHIP BOUNDARY LOCATIONS, UNLESS OTHERWISE NOTED, FROM MASSACHUSETTS GIS AND CITY OF WOBURN ENGINEERING DEPT.
2. 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.
3. PLAN COORDINATES IN NAD 83 FEET.
4. ALL LOCATIONS CONVERTED FROM ORIGINAL DATUM TO NAD 83 FEET USING BLUE MARBLE GEOGRAPHIC CALCULATOR SOFTWARE (VERSION 4.2).
5. PLAN NOT TO BE USED FOR DESIGN.
6. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE.

STUDY AREA REACH AND SURFACE WATER STATION LOCATIONS

FIGURE ES-2

MSGRP FEASIBILITY STUDY REPORT

INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS

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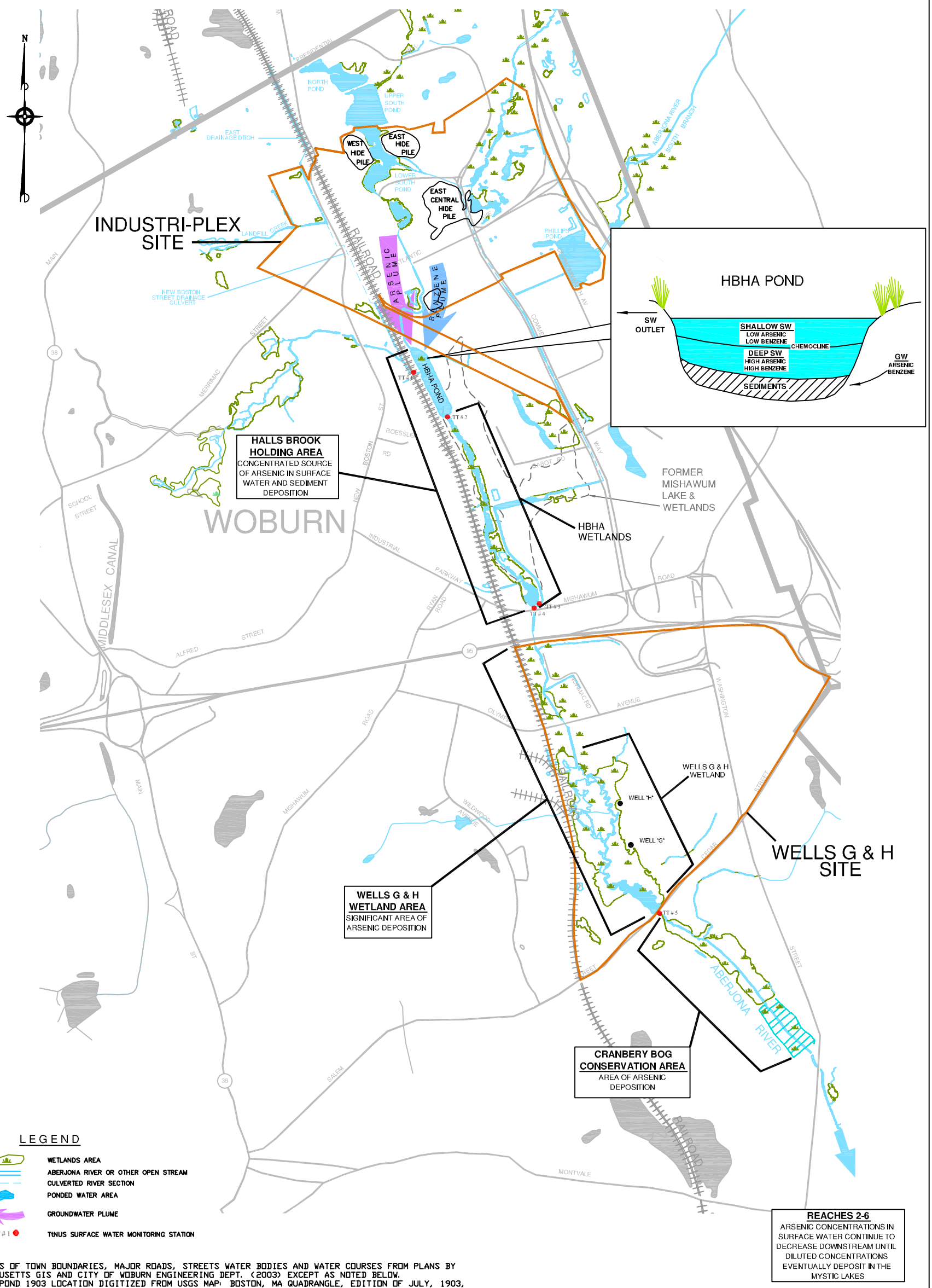
CHECKED BY:	D. BAXTER	DATE:	JUNE 22, 2005
SCALE:	AS SHOWN	FILE NO.:	DWG\4123\1010\FIG_ES-2.DWG

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



LEGEND

- WETLANDS AREA
- ABERJONA RIVER OR OTHER OPEN STREAM
- CULVERTED RIVER SECTION
- PONDED WATER AREA
- GROUNDWATER PLUME
- TT#1 TtNUS SURFACE WATER MONITORING STATION

NOTES:

1. LOCATIONS OF TOWN BOUNDARIES, MAJOR ROADS, STREETS WATER BODIES AND WATER COURSES FROM PLANS BY THE MASSACHUSETTS GIS AND CITY OF WOBURN ENGINEERING DEPT. (2003) EXCEPT AS NOTED BELOW.
2. JUDKINS POND 1903 LOCATION DIGITIZED FROM USGS MAP: BOSTON, MA QUADRANGLE, EDITION OF JULY, 1903, REPRINTED 1942, OBTAINED FROM HTTP://DOCS.UNH.EDU.
3. LOCATIONS OF HISTORIC MISHAWUM LAKE, AND HISTORIC ABERJONA RIVER NORTH BRANCH FROM A PLAN ENTITLED "PLANS OF ABERJONA RIVER, HALL'S BROOK AND MISHAWUM LAKE FLOOD CONTROL AND DRAINAGE STRUCTURES TO REPLACE EXISTING WATERWAY, WOBURN, MA, FOR PETITION OF MARK PHILLIP TRUST", WESTON & SAMPSON ENGINEERS, DATED: NOV. 1974.
4. PARTS OF THE ABERJONA RIVER SOUTH BRANCH SHOWN FROM A PLAN BY HALLIBURTON NUS, INC., PLAN DATED: AUGUST 25, 1997, ENTITLED: "HISTORICAL AND CURRENT SURFACE WATER CONDITIONS, PRELIMINARY MSGRP STUDY, INDUSTRI-PLEX, WOBURN, MA".
5. SURFACE WATER FEATURES ADAPTED FROM FIGURE 39 (ABERJONA RIVER STUDY AREA, WETLANDS STATUS & RIVER COURSES,1995) FROM A REPORT ENTITLED: AERIAL PHOTOGRAPHIC ANALYSIS OF THE ABERJONA RIVER STUDY AREA MIDDLESEX COUNTY, MASSACHUSETTS", OCTOBER, 2002, BY U.S. E.P.A. AND ONE METER AERIAL PHOTOGRAPHS OBTAINED FROM THE MASSACHUSETTS GIS.
6. ROADS AND WATER COURSES UNAVAILABLE FROM ABOVE SOURCES ADDED FROM AVAILABLE PLANS AND/OR FIELD OBSERVATIONS.
7. PLAN DATUM IN NAD 83 FEET; ORIGINAL DATUM FROM OTHER PLANS CONVERTED TO NAD 83 FEET USING THE GEOGRAPHIC CALCULATOR BY BLUE MARBLE GEOGRAPHICS, VERSION 4.2.
8. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE.
9. PLAN NOT TO BE USED FOR DESIGN.
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.

GRAPHIC SCALE

0' 1500' 3000'

1 INCH = 100 FEET

SUMMARY OF KEY CONTAMINANT MIGRATION PATHWAYS		FIGURE ES-3	
MSGRP FEASIBILITY STUDY REPORT		TETRA TECH NUS, INC.	
INDUSTRI-PLEX SITE, WOBURN, MASSACHUSETTS		55 Jonspin Road Wilmington, MA 01887 (978)658-7899	
DRAWN BY: D.W. MACDOUGALL	REV.: 0		
CHECKED BY: G. BULLARD	DATE: JUNE 22, 2005		
SCALE: AS NOTED	FILE NO.: DWG\4123\1010\FIG_ES-3.DWG		