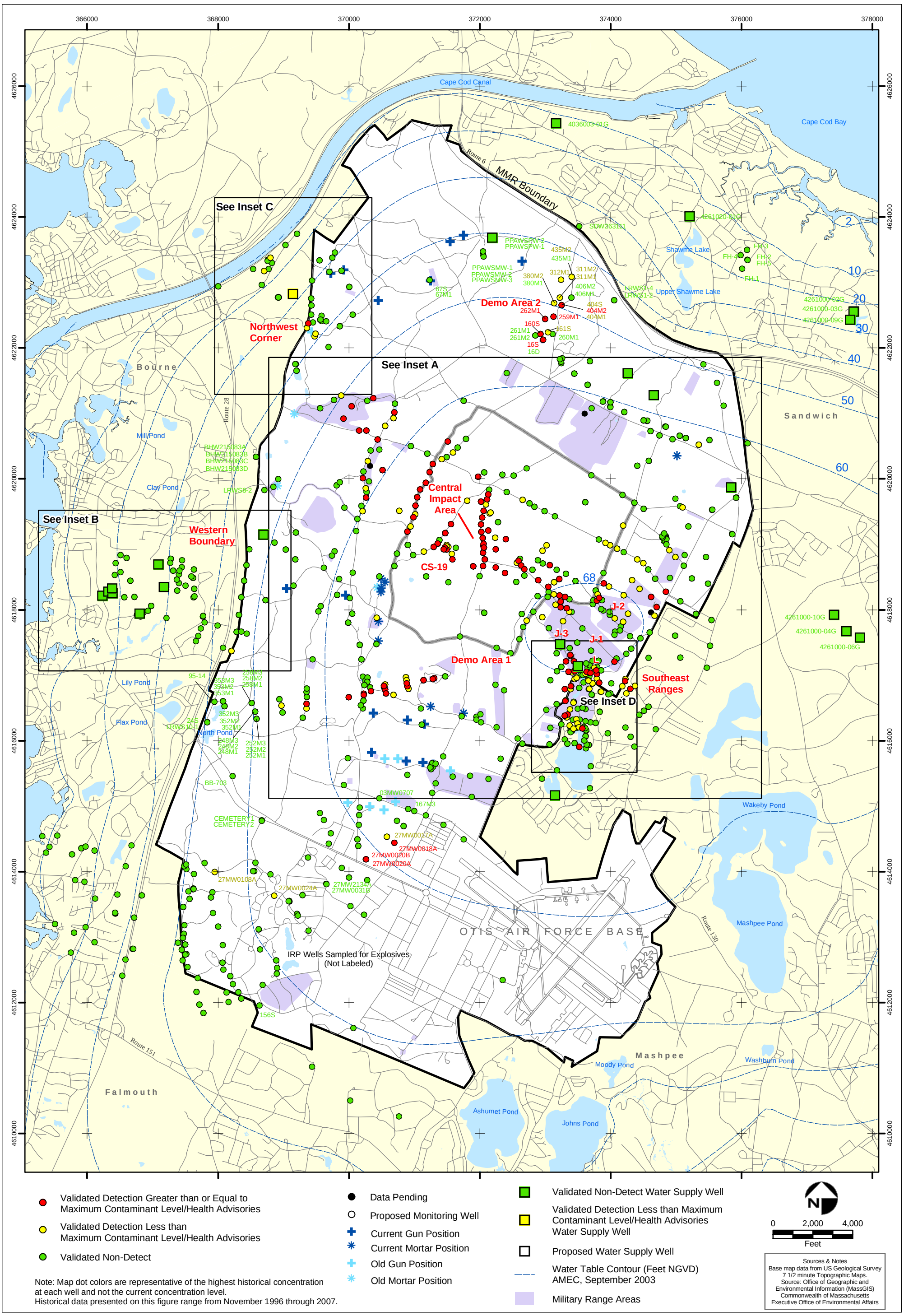


Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories

Validated Detection Less than Maximum Contaminant Level/Health Advisories

Validated Non-Detect

Data Pending

Proposed Monitoring Well

Current Gun Position

Current Mortar Position

Old Gun Position

Old Mortar Position

Validated Non-Detect Water Supply Well

Validated Detection Less than Maximum Contaminant Level/Health Advisories Water Supply Well

Proposed Water Supply Well

Water Table Contour (Feet NGVD) AMEC, September 2003

Military Range Areas

N

0 2,000 4,000
Feet

Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

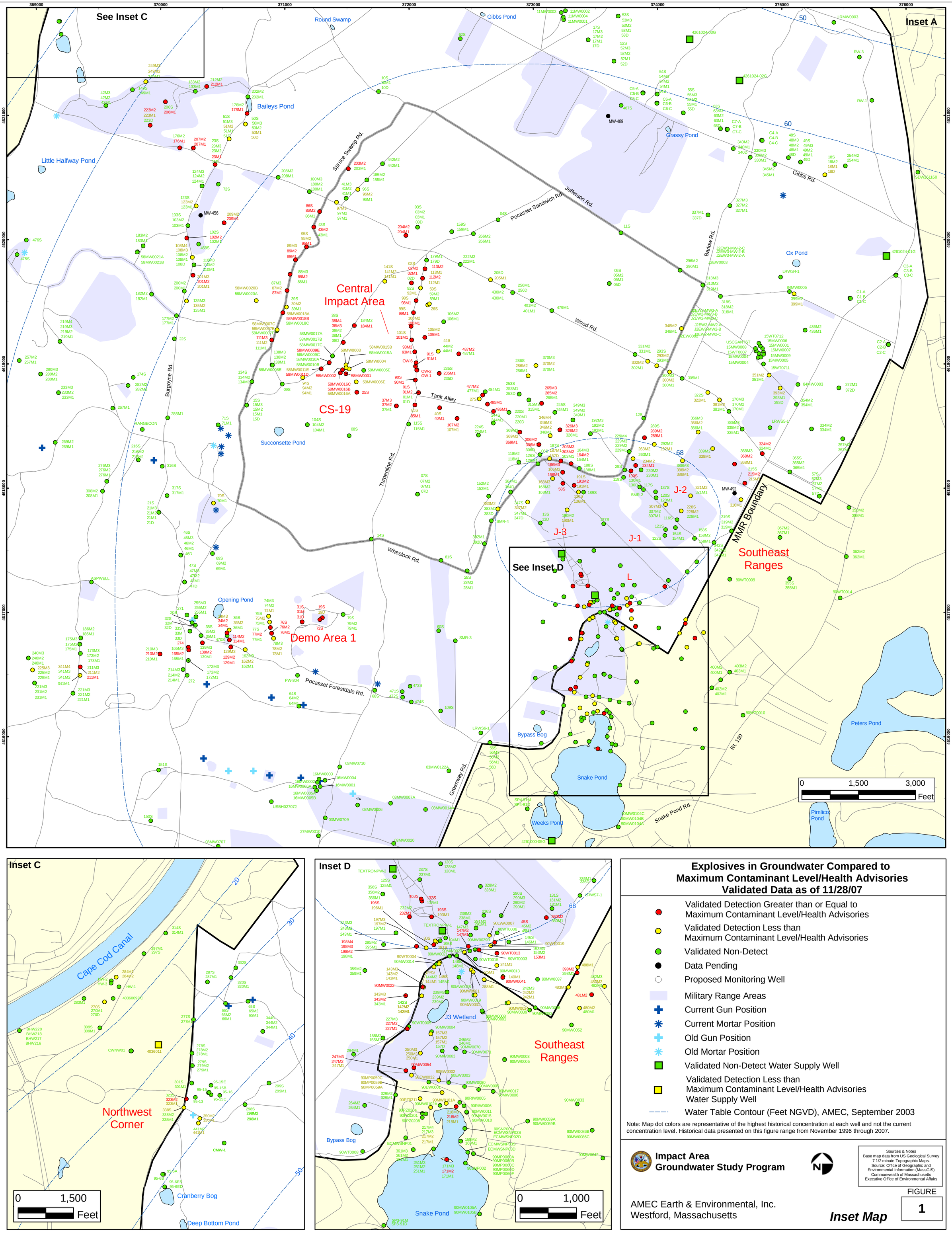
Explosives in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 11/28/07

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE
1

J:\GIS\2007\Monthlies\12December07\1_Explosives\Exp_Overall_December07.pdf
G:\MMR_COE\Work2007\Monthlies\12December07\1_Exp\Exp_Overall_December07.mxd
December 7, 2007 DWN: DJK KMP CHKD: AW

Impact Area Groundwater Study Program



Explosives in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 11/28/07

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Military Range Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Validated Non-Detect Water Supply Well
- Validated Detection Less than Maximum Contaminant Level/Health Advisories Water Supply Well
- Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

Impact Area Groundwater Study Program

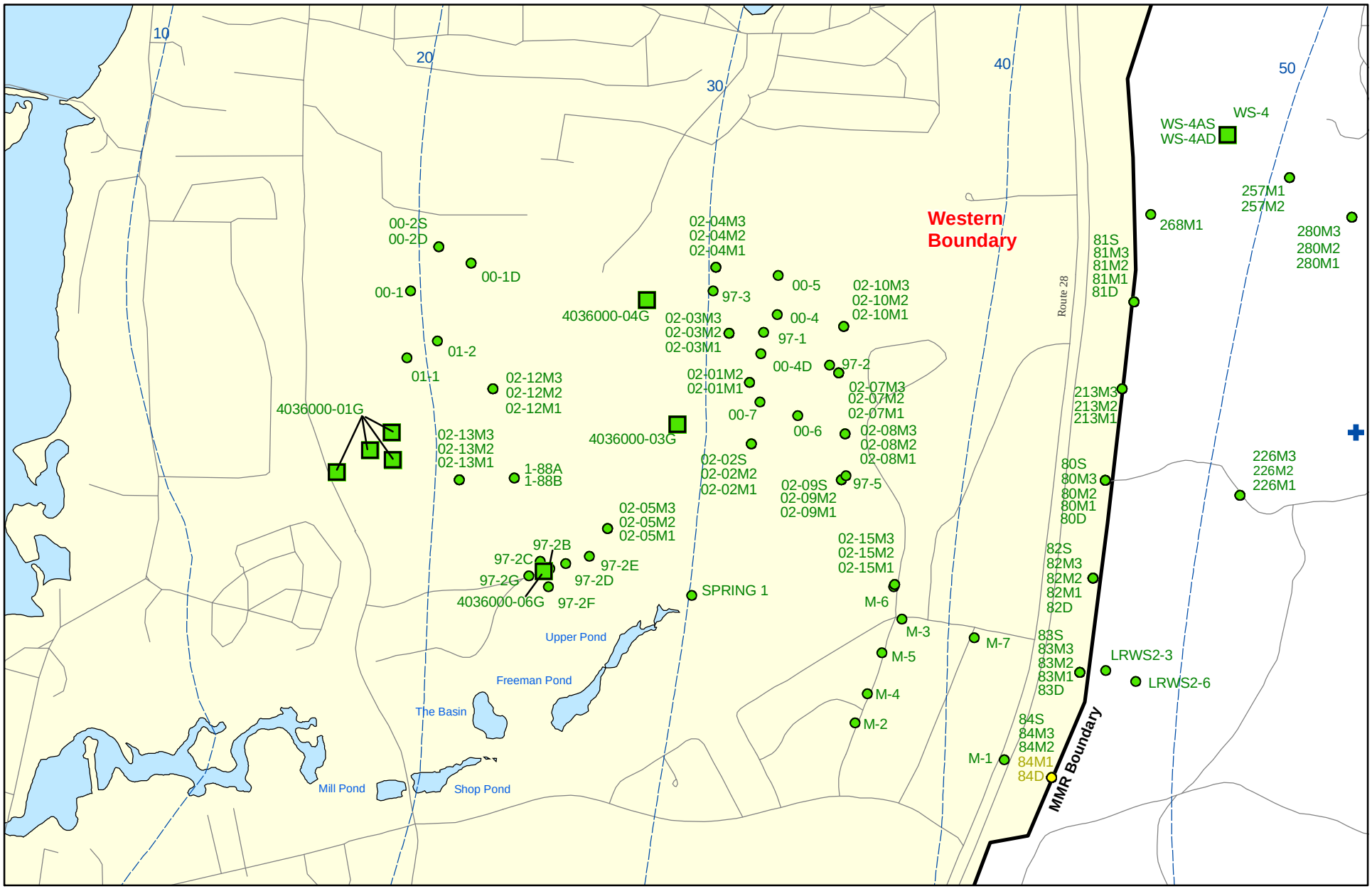
Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS) Commonwealth of Massachusetts Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

Inset Map

FIGURE **1**

J:\GIS\2007\Monthlies\12December07\1_Explosives\Exp_InsetA_December07.pdf G:\MMR_COE\Work2007\Monthlies\12December07\1_Exp\Exp_InsetA_December07.mxd December 7, 2007 DWN: DJK KMP CHKD: AW



0 600 1,200
Feet

Sources & Notes:
Base map data from US Geological Survey
7 1/2 minute Topographic maps.
Source: Office of Geographic and
Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Current Gun Position
- Validated Non-Detect Water Supply Well
- Proposed Water Supply Well
- Water Table Contour (Feet NGVD) AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

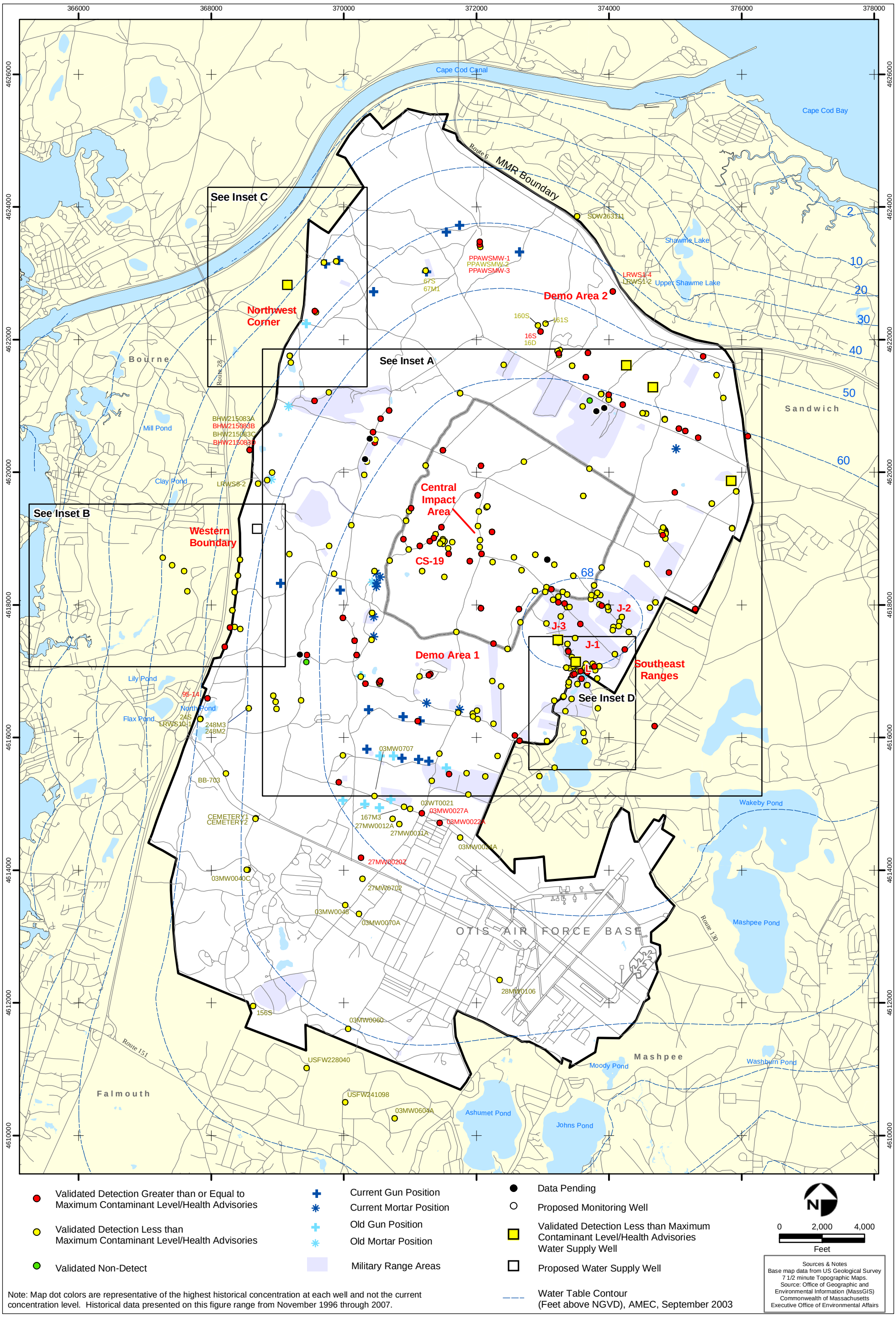
Explosives in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 11/28/07

Impact Area Groundwater Study Program

FIGURE

Inset Map B **1**

J:\GIS\2007\Monthlies\12December\1_Explosives\Exp_InsetB_December07.pdf G:\MMR_COE\Work2007\Monthlies\12December07\1_Exp\Exp_InsetB_December07.mxd December 7, 2007 DWN: DJK KMP CHKD: AW



Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories

Validated Detection Less than Maximum Contaminant Level/Health Advisories

Validated Non-Detect

Current Gun Position

Current Mortar Position

Old Gun Position

Old Mortar Position

Military Range Areas

Data Pending

Proposed Monitoring Well

Validated Detection Less than Maximum Contaminant Level/Health Advisories Water Supply Well

Proposed Water Supply Well

Water Table Contour (Feet above NGVD), AMEC, September 2003

N

0 2,000 4,000
Feet

Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

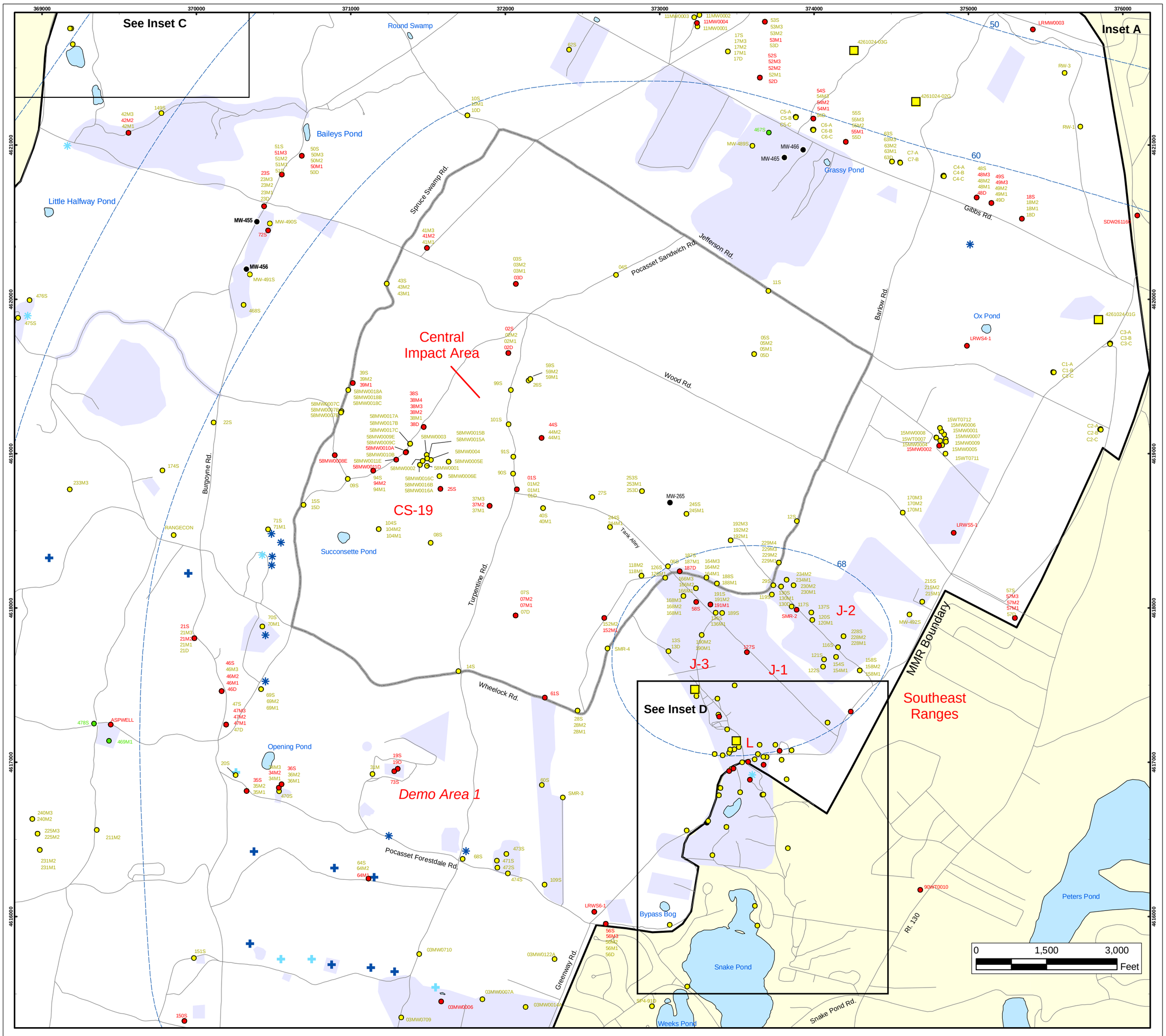
AMEC Earth & Environmental, Inc.
Westford, Massachusetts

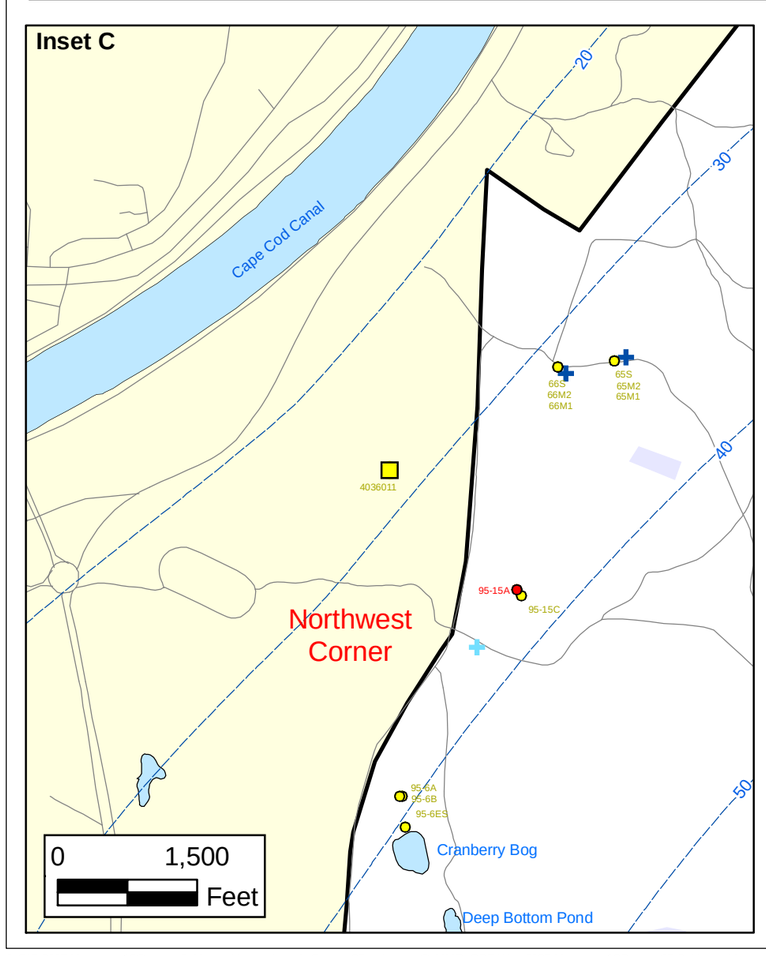
Metals in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 9/26/07

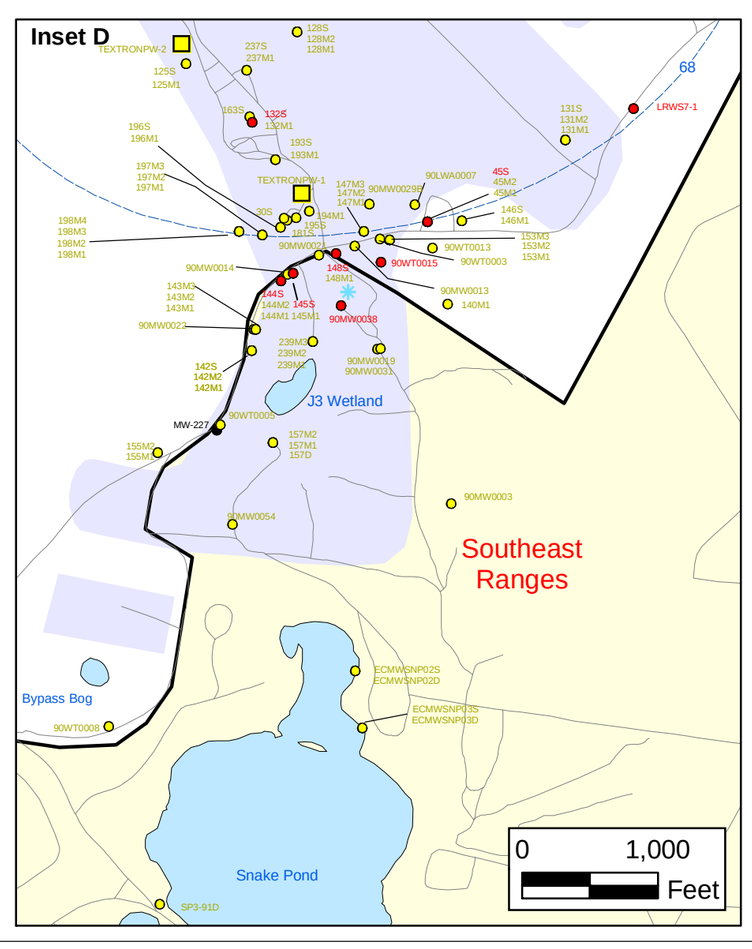
FIGURE
2

J:\GIS\2007\Monthlies\10October\2_Metals\Metals_Overall_October07.pdf
G:\MMR_COE\Work2007\Monthlies\10October07\2_Metals\Metals_Overall_October07.mxd
October 9, 2007 DWN: DJK CHKD: AW

Impact Area Groundwater Study Program







Metals in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 9/26/07

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Military Range Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Validated Detection Less than MaximumContaminant Level/Health Advisories Water Supply Well
- Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

Impact Area Groundwater Study Program

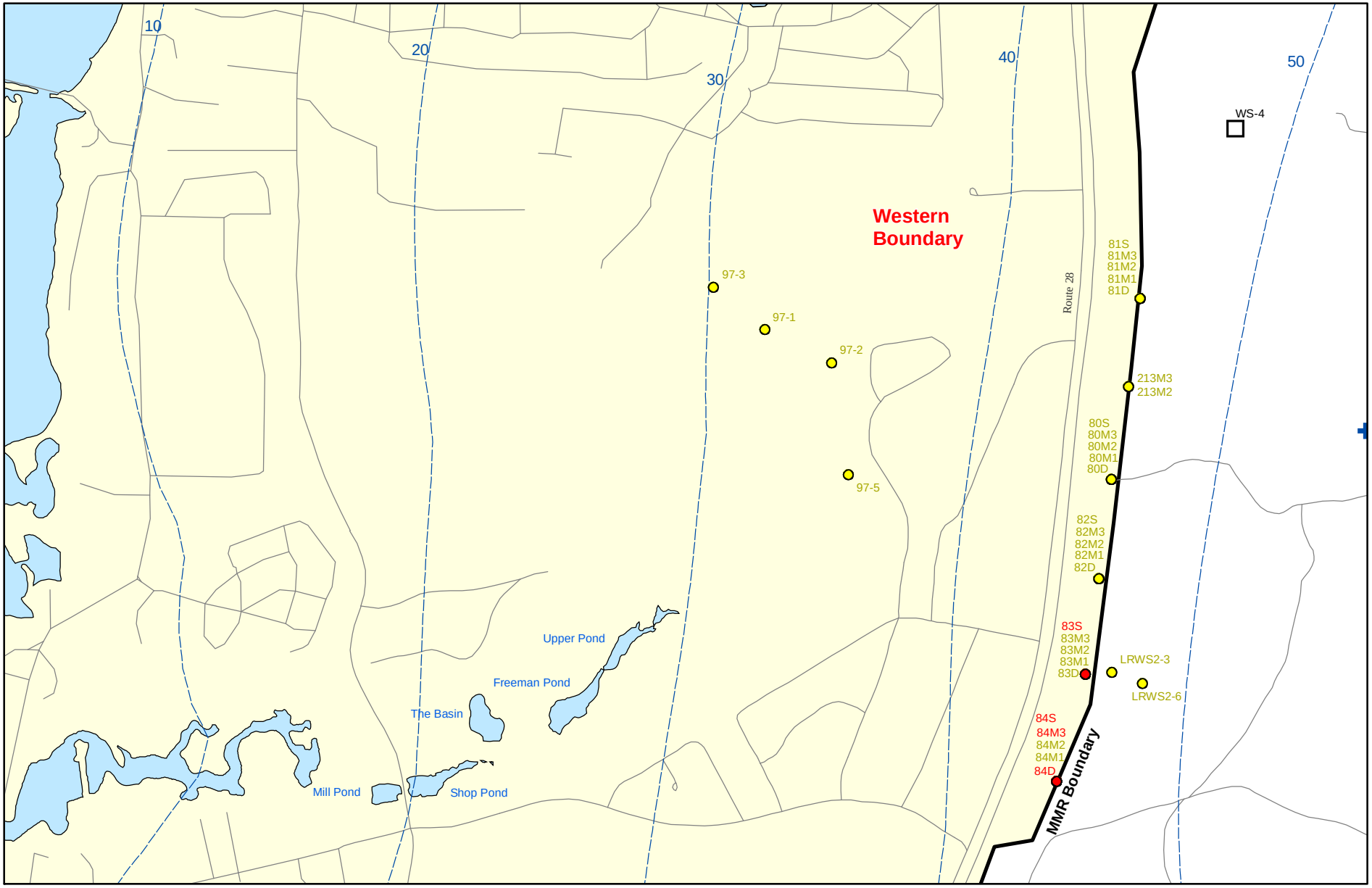
Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

Inset Map

FIGURE **2**

J:\GIS\2007\Monthlies\10October\2_Metals\Metals_InsetA_October07.pdf G:\MMR_COE\Work2007\Monthlies\10October07\2_Metals\Metals_InsetA_October07.mxd October 9, 2007 DWN: DJK CHKD: AW



0 625 1,250
Feet

Sources & Notes:
Base map data from US Geological Survey
7 1/2 minute Topographic maps.
Source: Office of Geographic and
Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Proposed Water Supply Well
- Current Gun Position
- Water Table Contour (Feet NGVD) AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

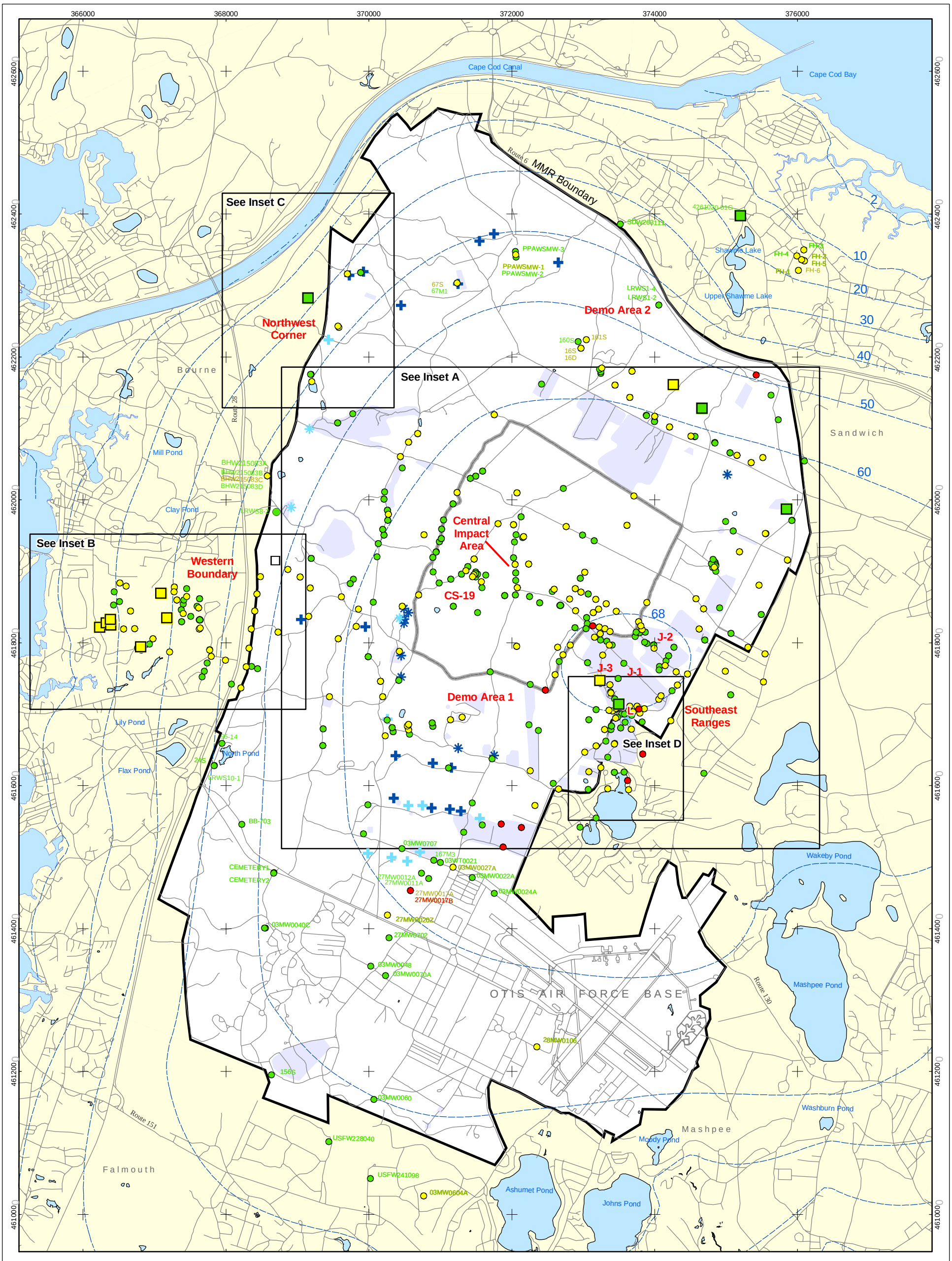
Metals in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 9/26/07

Impact Area Groundwater Study Program

FIGURE

Inset Map B **2**

J:\GIS\2007\Monthlies\10October\2_Metals\Metals_InsetB_October07.pdf G:\MMR_COE\Work2007\Monthlies\10October07\2_Metals\Metals_InsetB_October07.mxd October 9, 2007 DWN: DJK CHKD: AW



- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Validated Non-Detect Water Supply Well
- Validated Detection Less than Maximum Contaminant Level/Health Advisories Water Supply Well
- Proposed Water Supply Well
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Water Table Contour (Feet NGVD), AMEC, September 2003
- Military Range Areas

N

0 2,000 4,000
Feet

Sources & Notes
Base map data from US Geological Survey
7 1/2 minute Topographic Maps.
Source: MassGIS

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

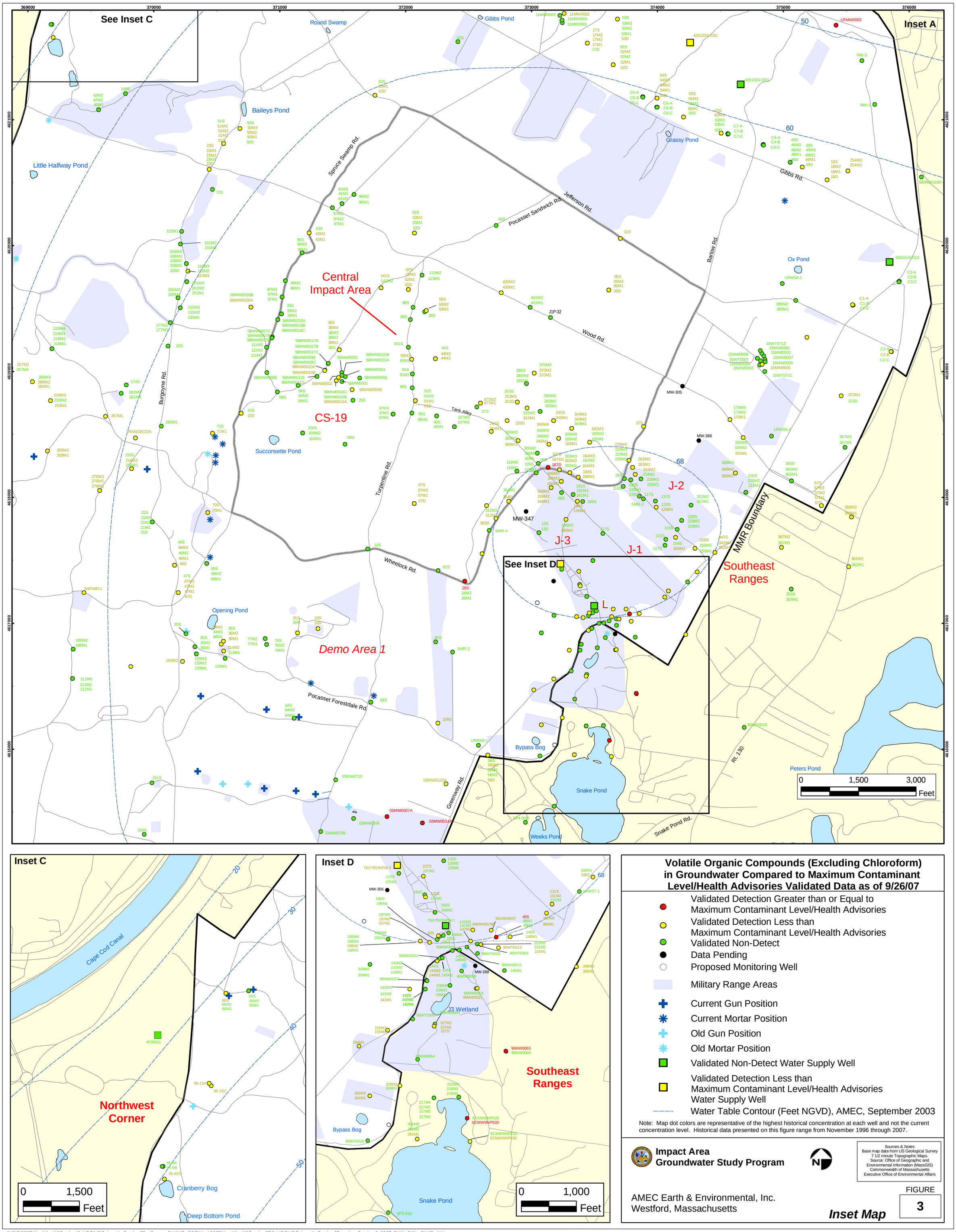
Volatile Organic Compounds (Excluding Chloroform) in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 9/26/07

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE
3

J:\GIS\2007\Monthlies\10October\3_VOC\VOC_Overall_October07.pdf
G:\MMR_COE\Work2007\Monthlies\10October07\3_VOC\VOC_Overall_October07.mxd
October 9, 2007 DWN: DJK CHKD: AW

Impact Area Groundwater Study Program



Volatile Organic Compounds (Excluding Chloroform) in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 9/26/07

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Military Range Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Validated Non-Detect Water Supply Well
- Validated Detection Less than Maximum Contaminant Level/Health Advisories Water Supply Well
- Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

Impact Area Groundwater Study Program

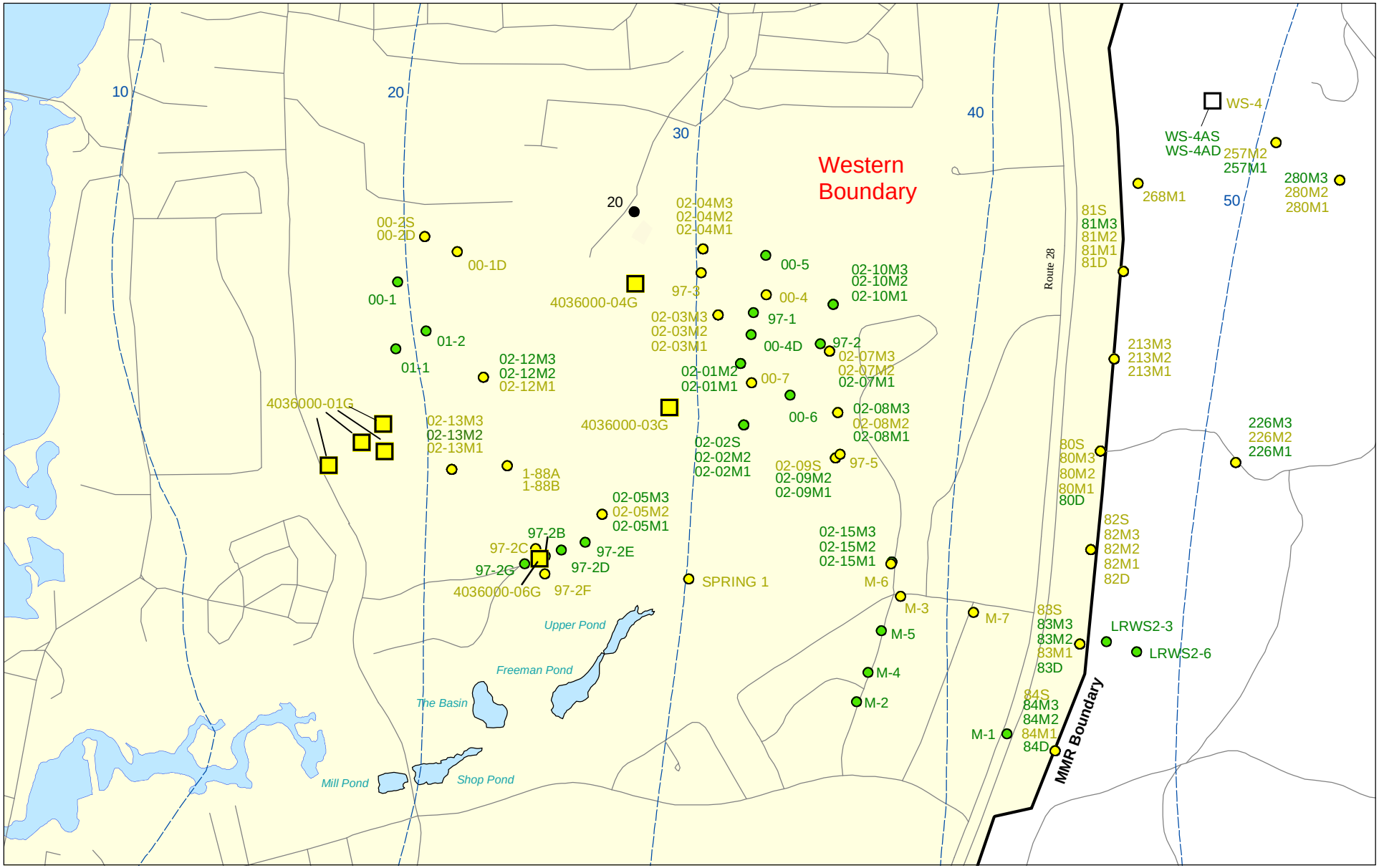
Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE 3

Inset Map

J:\GIS\2007\Monthlies\10October\3_VOC\VOC_InsetA_October07.pdf G:\MMR_COE\Work2007\Monthlies\10October07\3_VOC\VOC_InsetA_October07.mxd October 9, 2007 DWN: DJK CHKD: AW



0 625 1,250
Feet

Sources & Notes:
Base map data from US Geological Survey
7 1/2 minute Topographic maps.
Source: Office of Geographic and
Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Validated Detection Less than Maximum Contaminant Level/Health Advisories Water Supply Well
- Proposed Water Supply Well
- Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

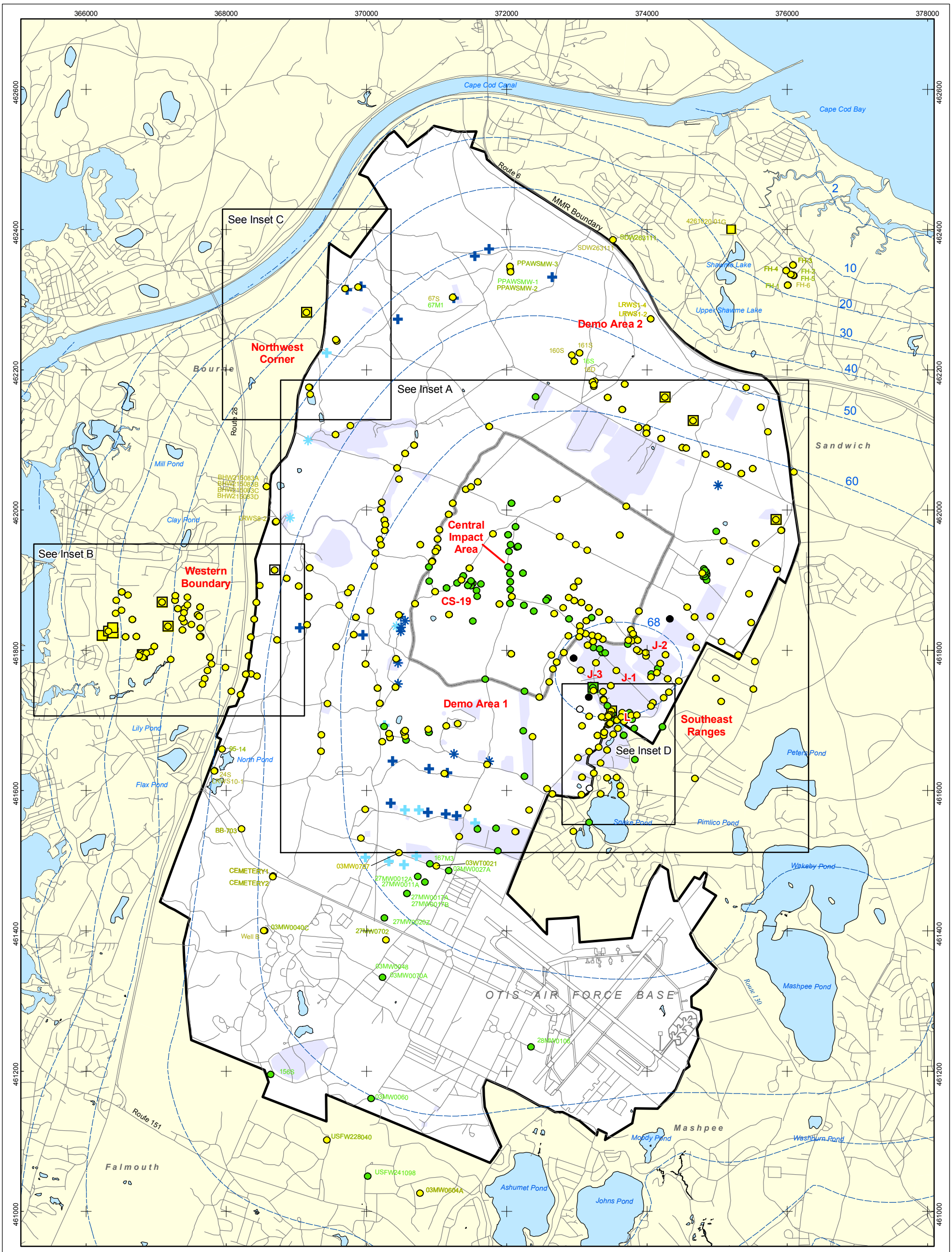
Volatile Organic Compounds (Excluding Chloroform) in Groundwater Compared to Maximum Contaminant Level/Health Advisories
Validated Data as of 9/26/07

Impact Area Groundwater Study Program

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE
Inset Map B **3**

J:\GIS\2007\Monthlies\10October\3_VOC\VOC_InsetB_October07.pdf G:\MMR_COE\Work2007\Monthlies\10October07\3_VOC\VOC_InsetB_October07.mxd October 9, 2007 DWN: DJK CHKD: AW



- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Validated Non-Detect Water Supply Well
- Validated Detection Less than the Maximum Contaminant Level/Health Advisories
- Proposed Water Supply Well
- Data Pending
- Proposed Monitoring Well
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Water Table Contour (Feet NGVD) AMEC, September 2003
- Military Range Areas

N

0 2,000 4,000
Feet

Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

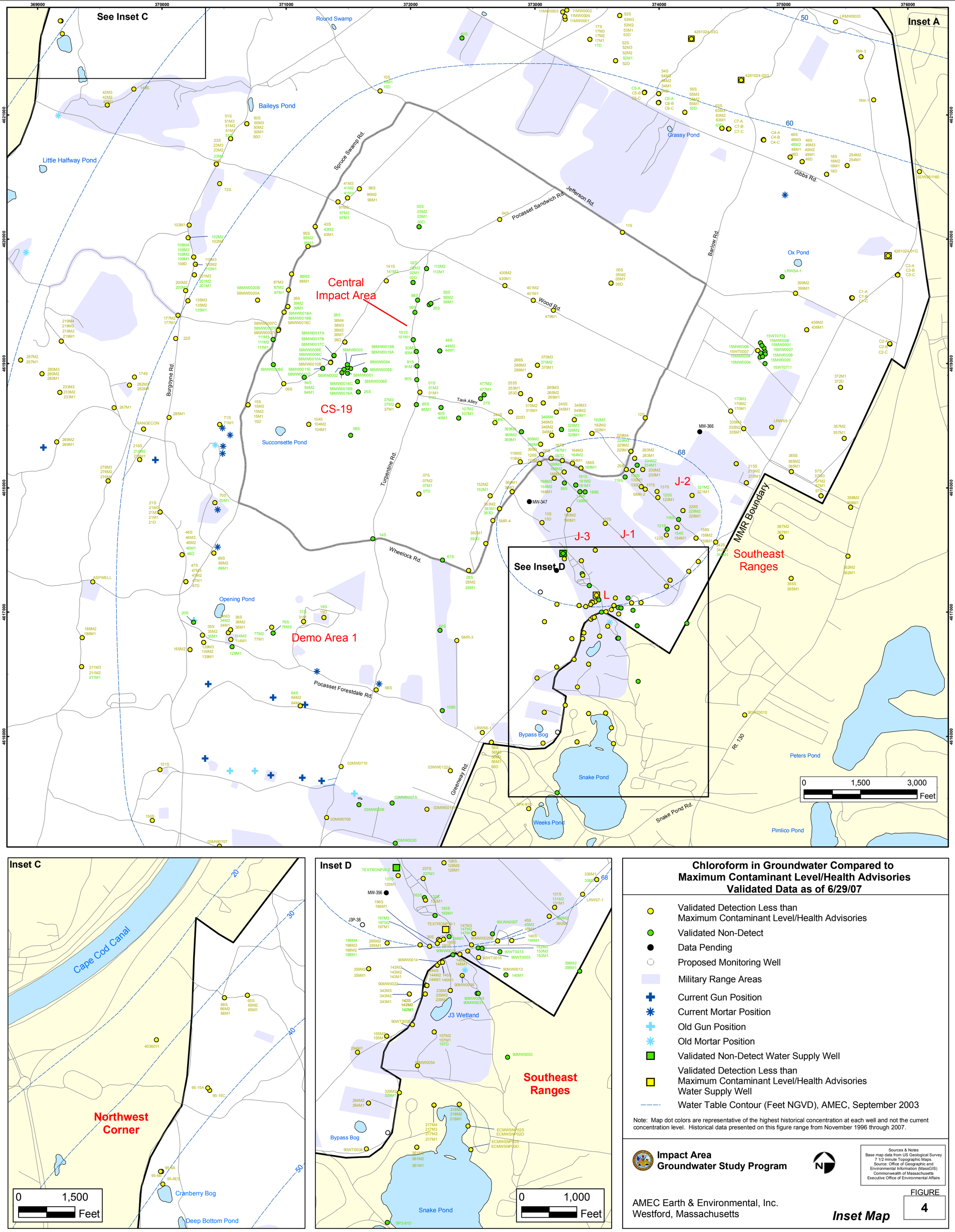
Chloroform in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 6/29/07

FIGURE
4

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

J:\GIS\2007\Monthlies\07July\4_Chloro\Chloro_Overall_July07.pdf
G:\MMR_COE\Work2007\Monthlies\07July07\4_Chloro\Chloro_Overall_July07.mxd
July 9, 2007 DWN: JBB KMP CHKD: AW

Impact Area Groundwater Study Program



Chloroform in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 6/29/07

- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Military Range Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Validated Non-Detect Water Supply Well
- Validated Detection Less than Maximum Contaminant Level/Health Advisories Water Supply Well
- Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

Impact Area Groundwater Study Program

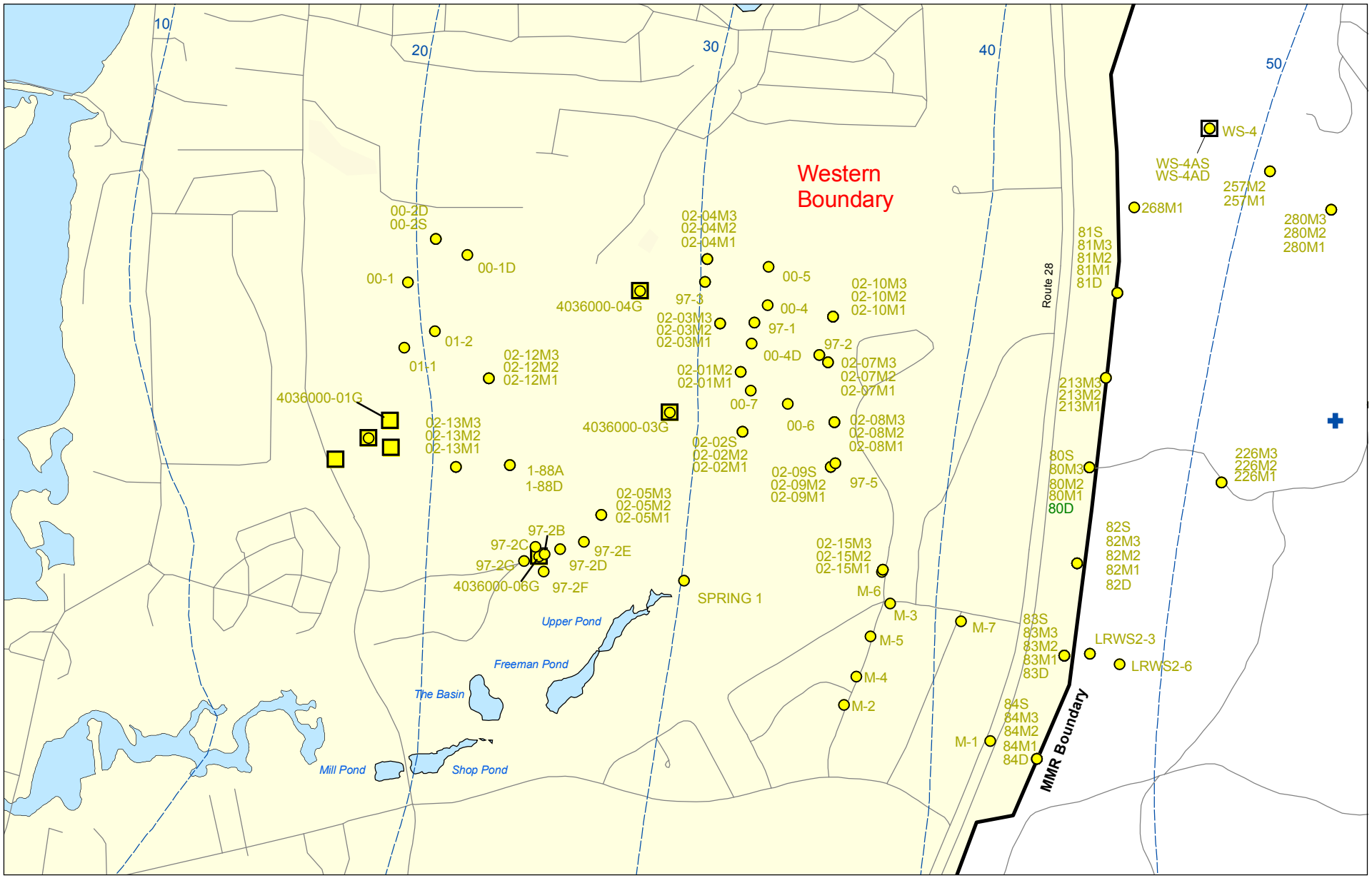
Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

Inset Map

FIGURE 4

J:\GIS\2007\Monthlies\07July\4_Chloro\Chloro_InsetA_July07.pdf G:\MMR_COE\Work2007\Monthlies\07July07\4_Chloro\Chloro_InsetA_July07.mxd July 9, 2007 DWN: JBB KMP CHKD: AW



N

0 625 1,250
Feet

Sources & Notes:
Base map data from US Geological Survey
7 1/2 minute Topographic maps.
Source: Office of Geographic and
Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Validated Detection Less than Maximum Contaminant Level/Health Advisories

Validated Non-Detect

Current Gun Position

Validated Detection Less than the Maximum Contaminant Level/Health Advisories

Proposed Water Supply Well

Water Table Contour (Feet NGVD) AMEC, September 2003

Chloroform in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 6/29/07

Impact Area Groundwater Study Program

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

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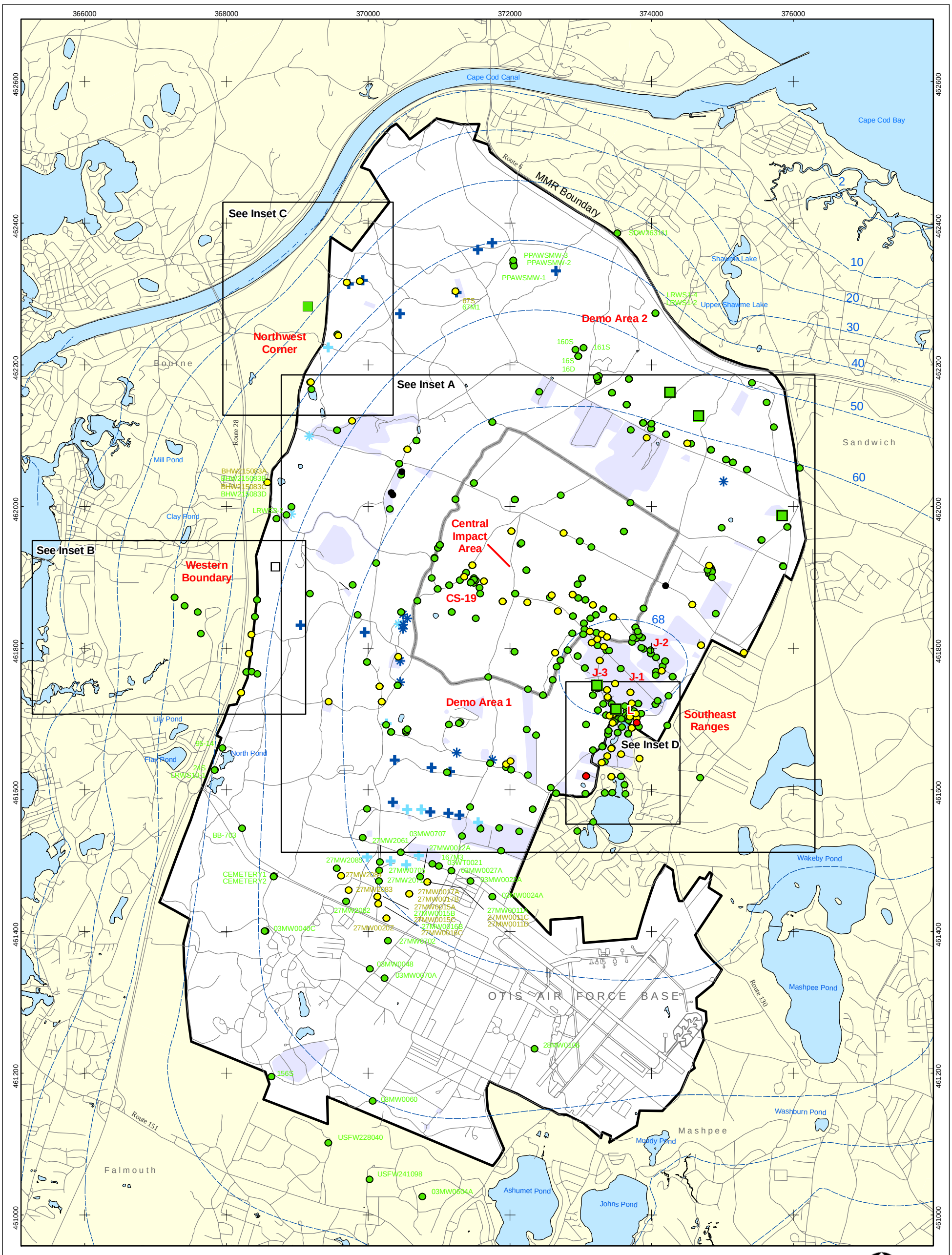
Westford, Massachusetts

FIGURE

Inset Map B **4**

J:\GIS\2007\Monthlies\07July\4_Chloro\Chloro_InsetB_July07.pdf G:\MMR_COE\Work2007\Monthlies\07July07\4_Chloro\Chloro_InsetB_July07.mxd July 9, 2007 DWN: JBB KMP CHKD: AW



- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Validated Non-Detect Water Supply Well
- Proposed Water Supply Well
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Water Table Contour (Feet NGVD) AMEC, September 2003
- Military Range Areas

N

0 2,000 4,000
Feet

Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

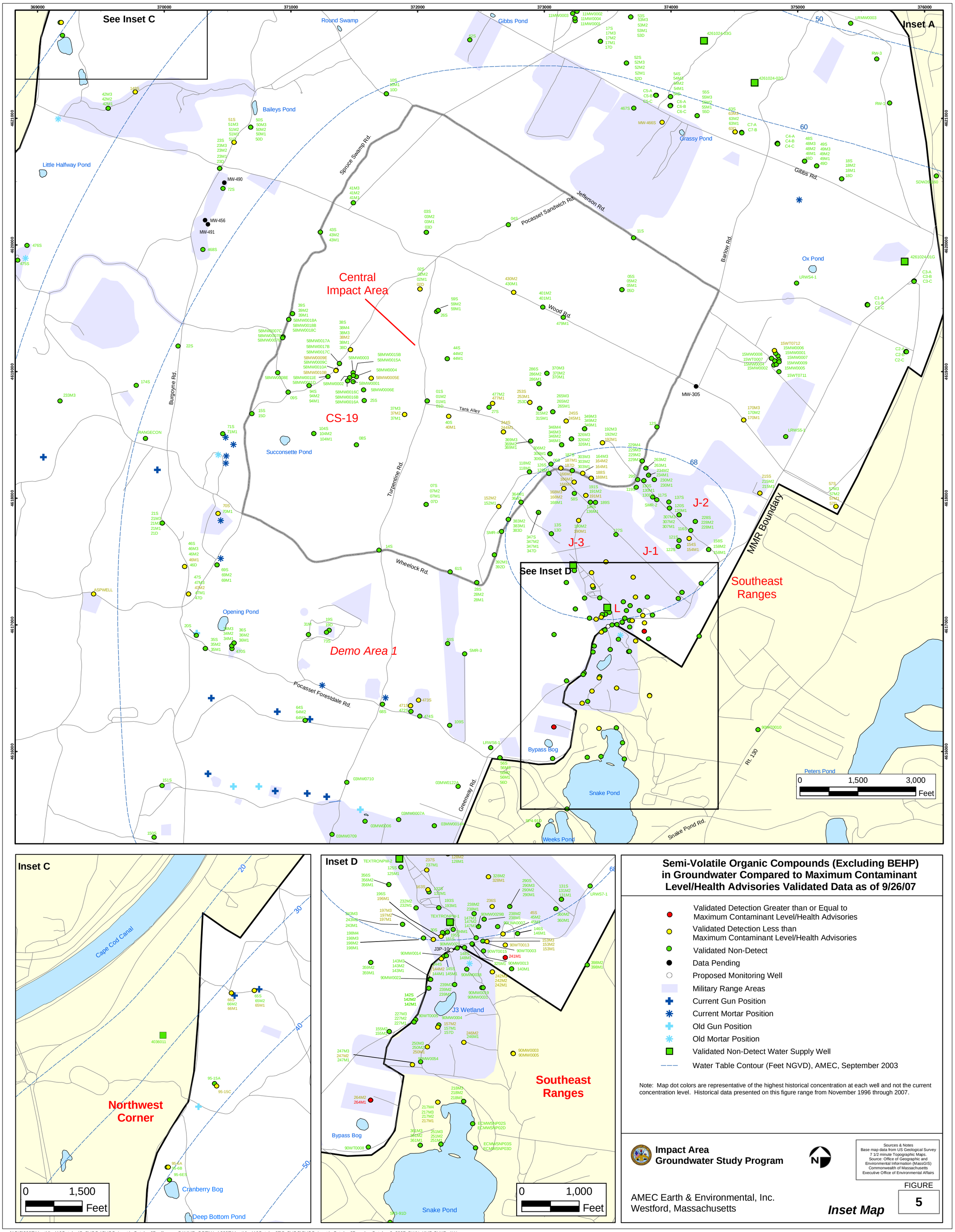
AMEC Earth & Environmental, Inc.
Westford, Massachusetts

Semi-Volatile Organic Compounds (Excluding BEHP) in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 9/26/07

FIGURE
5

J:\GIS\2007\Monthlies\10October\5_SVOCs\SVOC_Overall_October07.pdf
G:\MMR_COE\Work2007\Monthlies\10October07\5_SVOC\SVOC_Overall_October07.mxd
October 9, 2007 DWN: KMP CHKD: AW

Impact Area Groundwater Study Program



Semi-Volatile Organic Compounds (Excluding BEHP) in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 9/26/07

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Military Range Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Validated Non-Detect Water Supply Well
- Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

Impact Area Groundwater Study Program

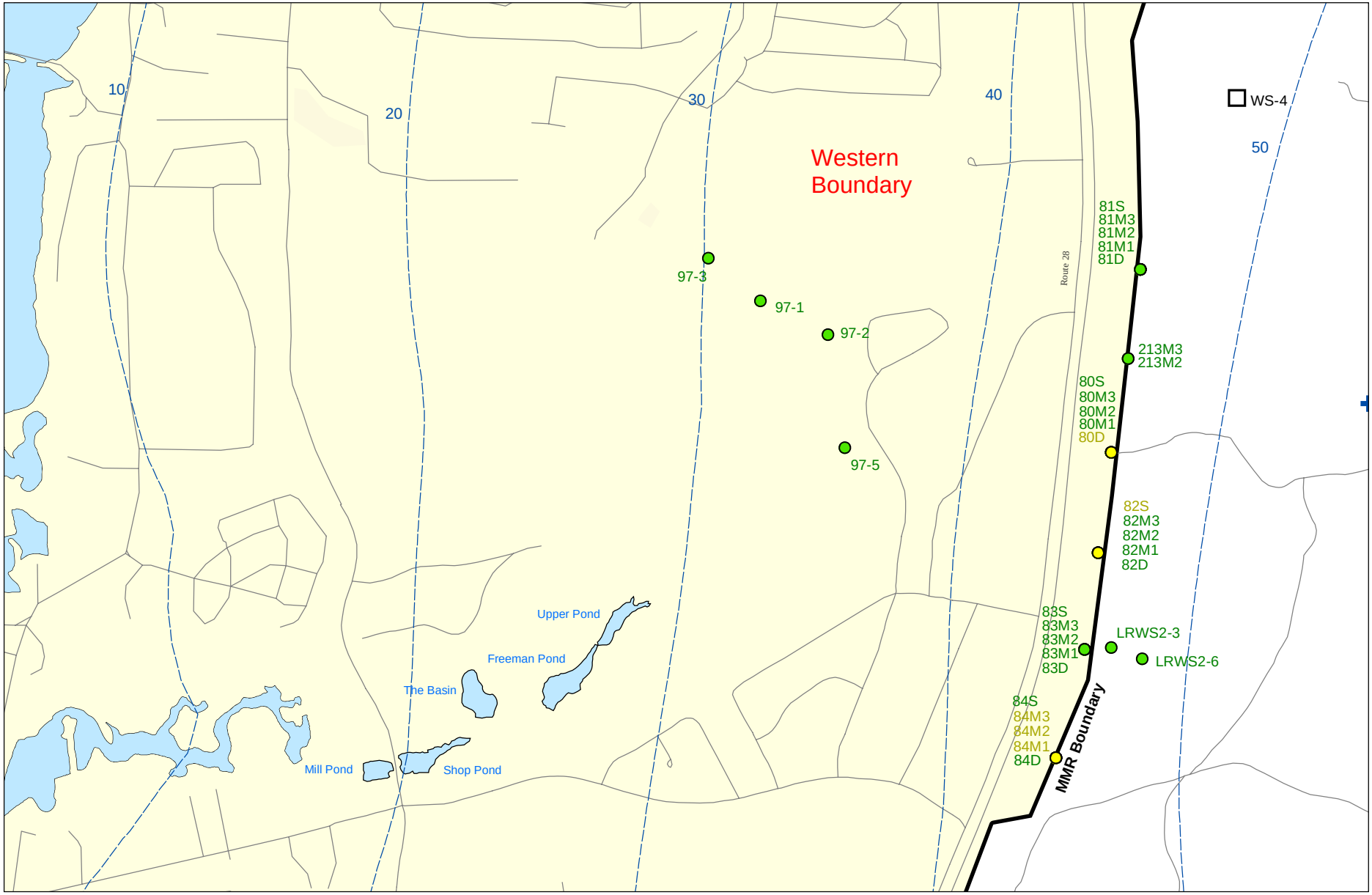
Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE 5

Inset Map

J:\GIS\2007\Monthlies\10October\5_SVOCs\SVOC_InsetA_October07.pdf G:\MMR_COE\Work2007\Monthlies\10October07\5_SVOC\SVOC_InsetA_October07.mxd October 9, 2007 DWN: KMP CHKD: AW



0 625 1,250
Feet

Sources & Notes:
Base map data from US Geological Survey
7 1/2 minute Topographic maps.
Source: Office of Geographic and
Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Proposed Water Supply Well
- Current Gun Position
- Water Table Contour (Feet NGVD), AMEC, September 2003

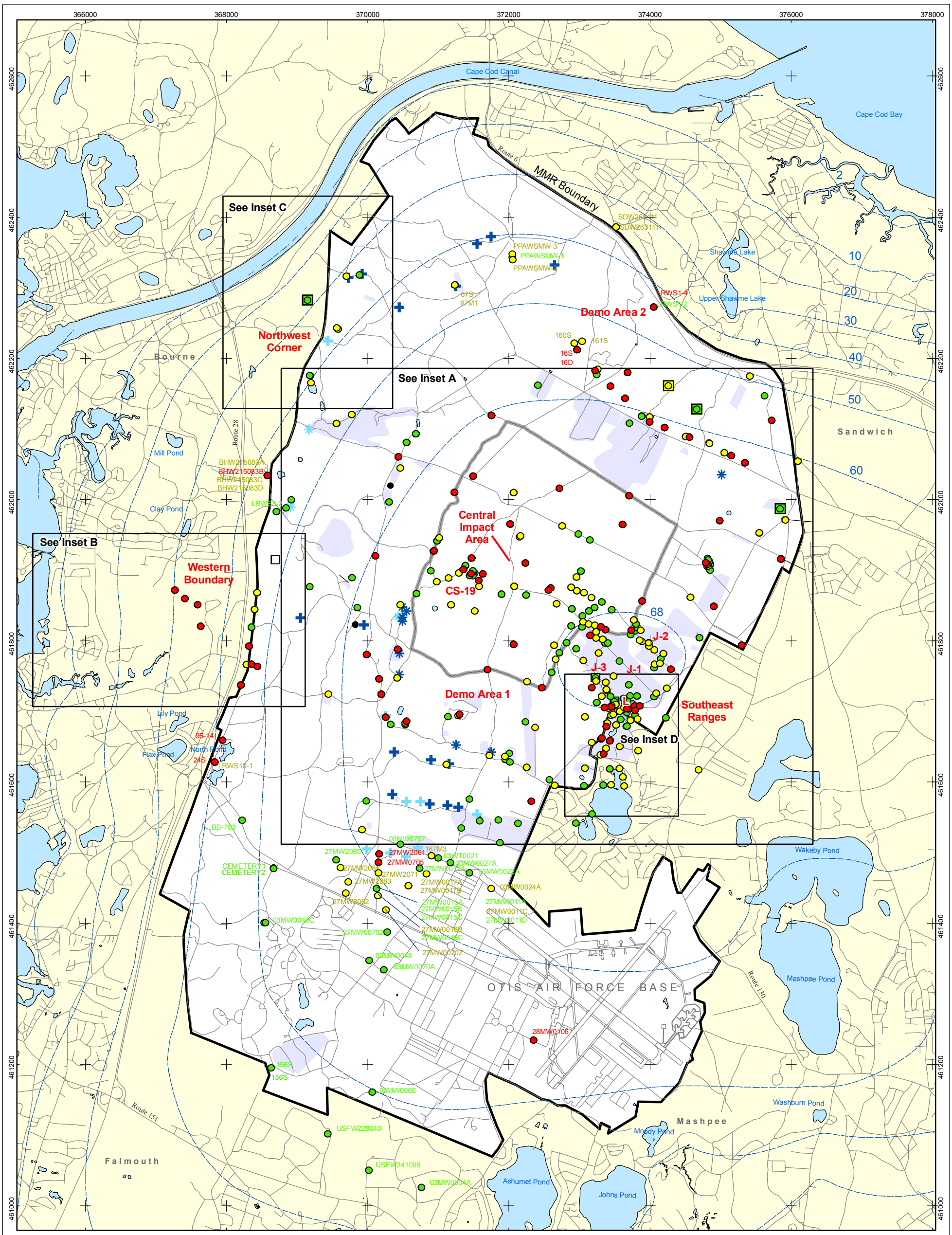
Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

Semi-Volatile Organic Compounds (Excluding BEHP) in Groundwater Compared to Maximum Contaminant Level/Health Advisories
Validated Data as of 9/26/07

Impact Area Groundwater Study Program

FIGURE
Inset Map B **5**

J:\GIS\2007\Monthlies\10October\5_SVOCs\SVOC_InsetB_October07.pdf G:\MMR_COE\Work2007\Monthlies\10October07\5_SVOC\SVOC_InsetB_October07.mxd October 9, 2007 DWN: KMP CHKD: AW



- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Validated Non-Detect Water Supply Well
- Maximum Contaminant Level/Health Advisories Water Supply Well
- Proposed Water Supply Well
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Water Table Contour (Feet NGVD) AMEC, September 2003
- Military Range Areas

N

0 2,000 4,000
Feet

Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

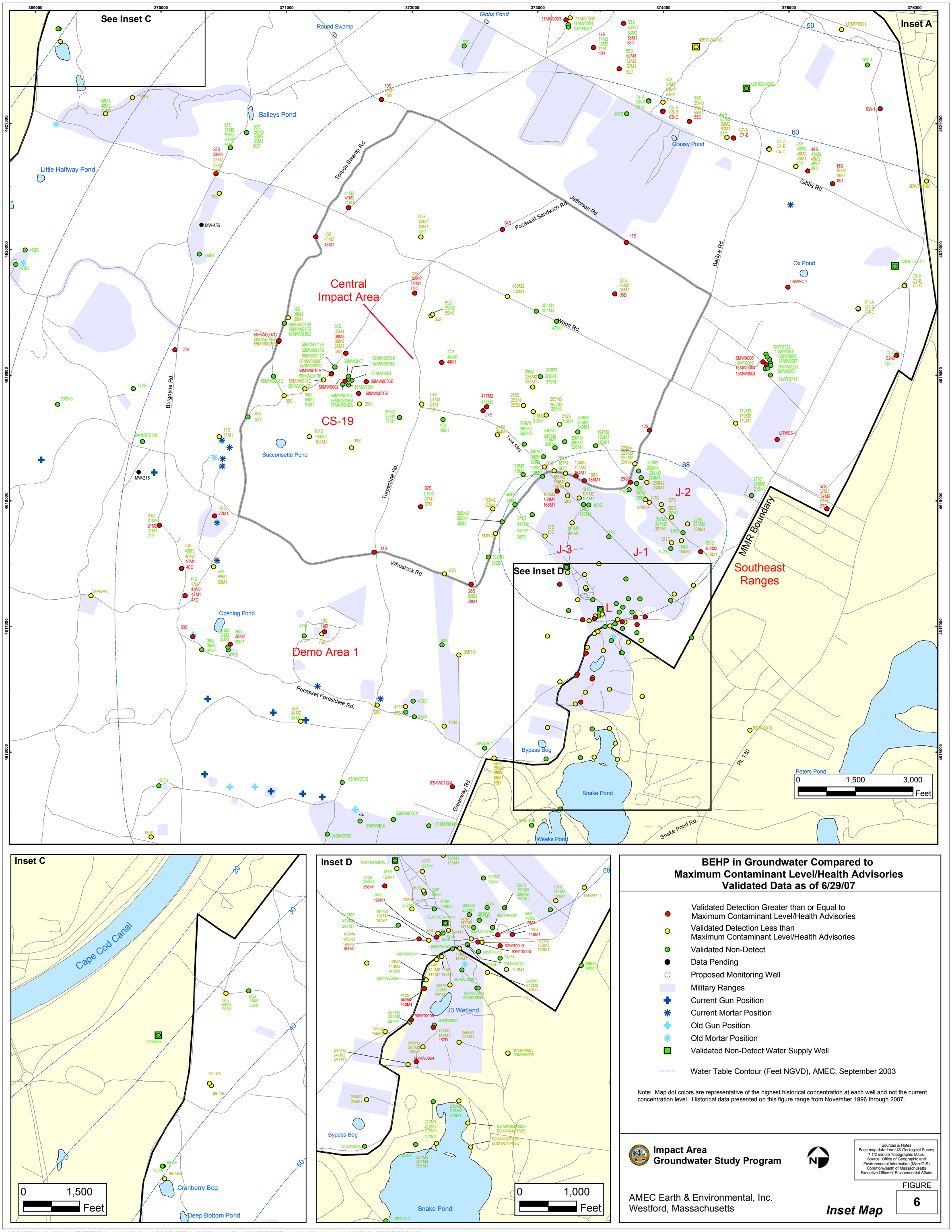
AMEC Earth & Environmental, Inc.
Westford, Massachusetts

BEHP in Groundwater
Compared to a 4 ppb Concentration
Validated Data as of 6/29/07

FIGURE
6

J:\GIS\2007\Monthlies\07July\6_BEHP\BEHP_Overall_July07.pdf
G:\MMR_COE\Work2007\Monthlies\07July07\6_BEHP\BEHP_Overall_July07.mxd
July 9, 2007 DWN: JBB KMP CHKD: AW

Impact Area Groundwater Study Program



BEHP in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 6/29/07

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Military Ranges
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Validated Non-Detect Water Supply Well
- Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

Impact Area Groundwater Study Program

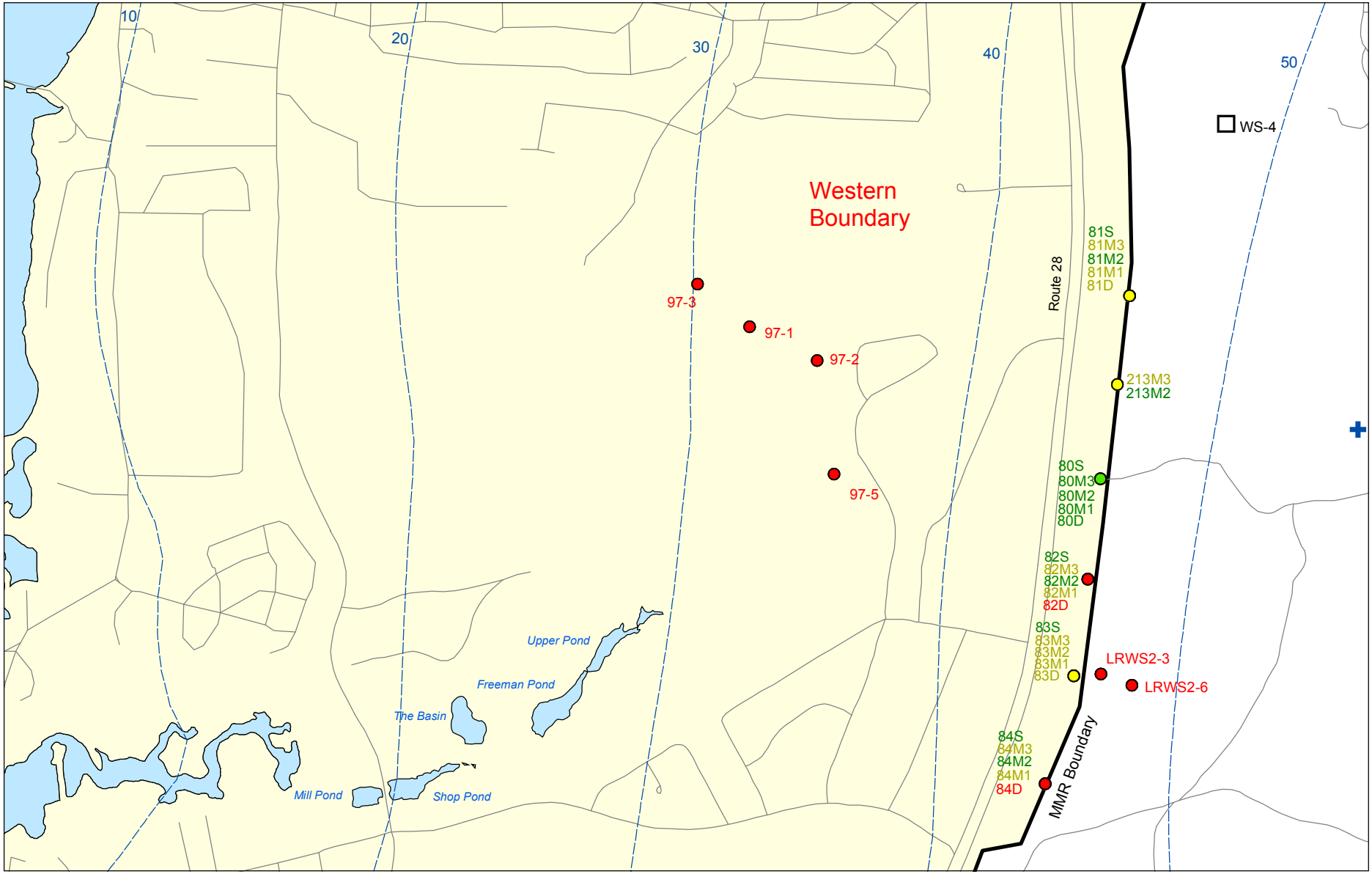
Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

Inset Map

FIGURE **6**

J:\GIS\2007\Monthlies\07July\6_BEHP\BEHP_InsetA_July07.pdf G:\MMR_COE\Work2007\Monthlies\07July07\6_BEHP\BEHP_InsetA_July07.mxd July 9, 2007 DWN: JBB KMP CHKD: AW



N

0 625 1,250
Feet

Sources & Notes:
Base map data from US Geological Survey
7 1/2 minute Topographic maps.
Source: Office of Geographic and
Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Proposed Water Supply Well
- Current Gun Position
- Water Table Contour (Feet NGVD) AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

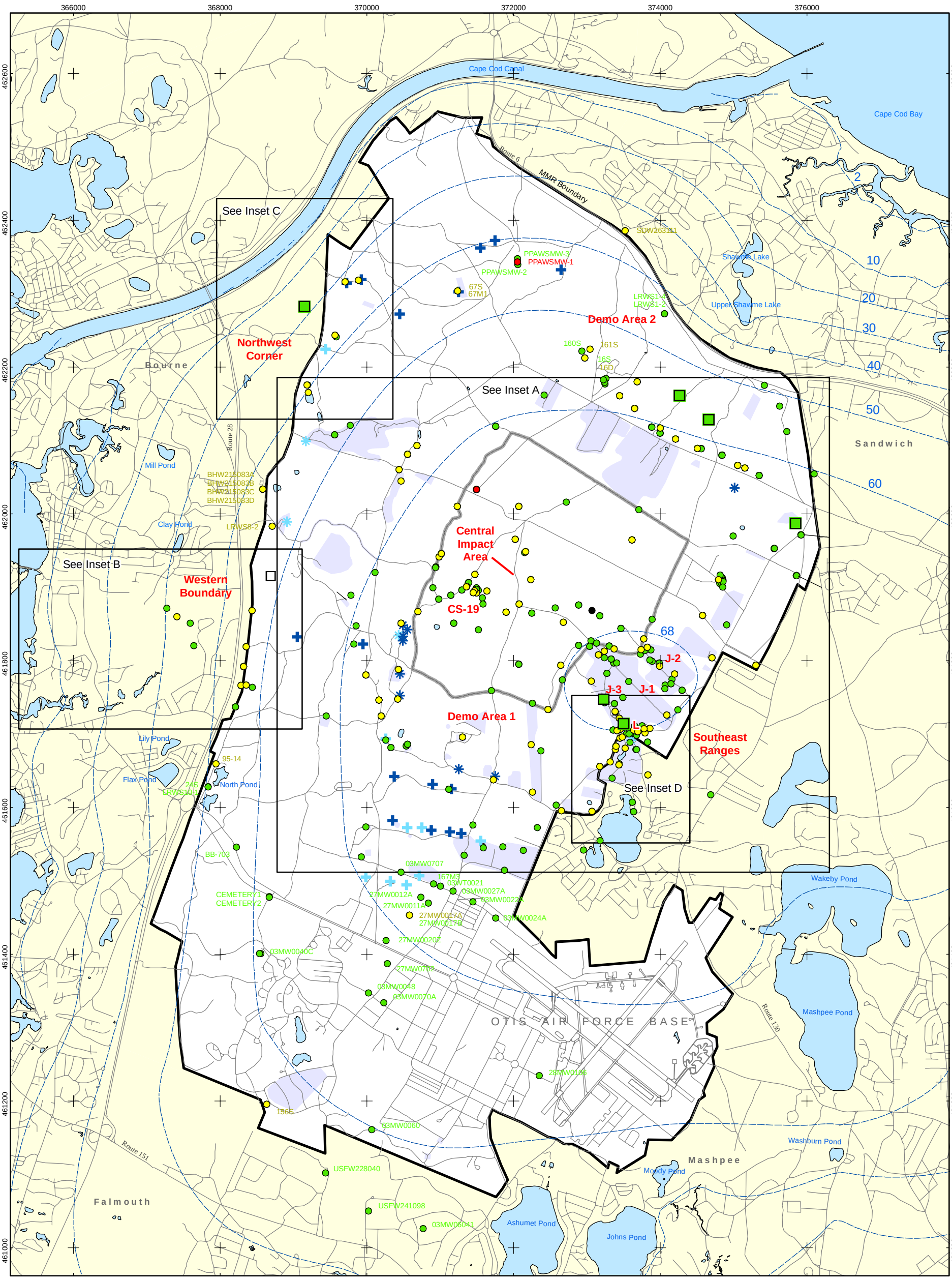
BEHP in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 6/29/07

Impact Area Groundwater Study Program

FIGURE

Inset Map B **6**

J:\GIS\2007\Monthlies\07July\6_BEHP\BEHP_InsetB_July07.pdf G:\MMR_COE\Work2007\Monthlies\07July07\6_BEHP\BEHP_InsetB_July07.mxd July 9, 2007 DWN: JBB KMP CHKD: AW



- Validated Detection Greater than or Equal to Maximum Contaminant Level/Health Advisories
- Validated Detection Less than Maximum Contaminant Level/Health Advisories
- Validated Non-Detect
- Validated Non-Detect Water Supply Well
- Proposed Water Supply Well
- Data Pending
- Proposed Monitoring Well
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Water Table Contour (Feet NGVD), AMEC, September 2003
- Military Range Areas

N

0 2,000 4,000
Feet

Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

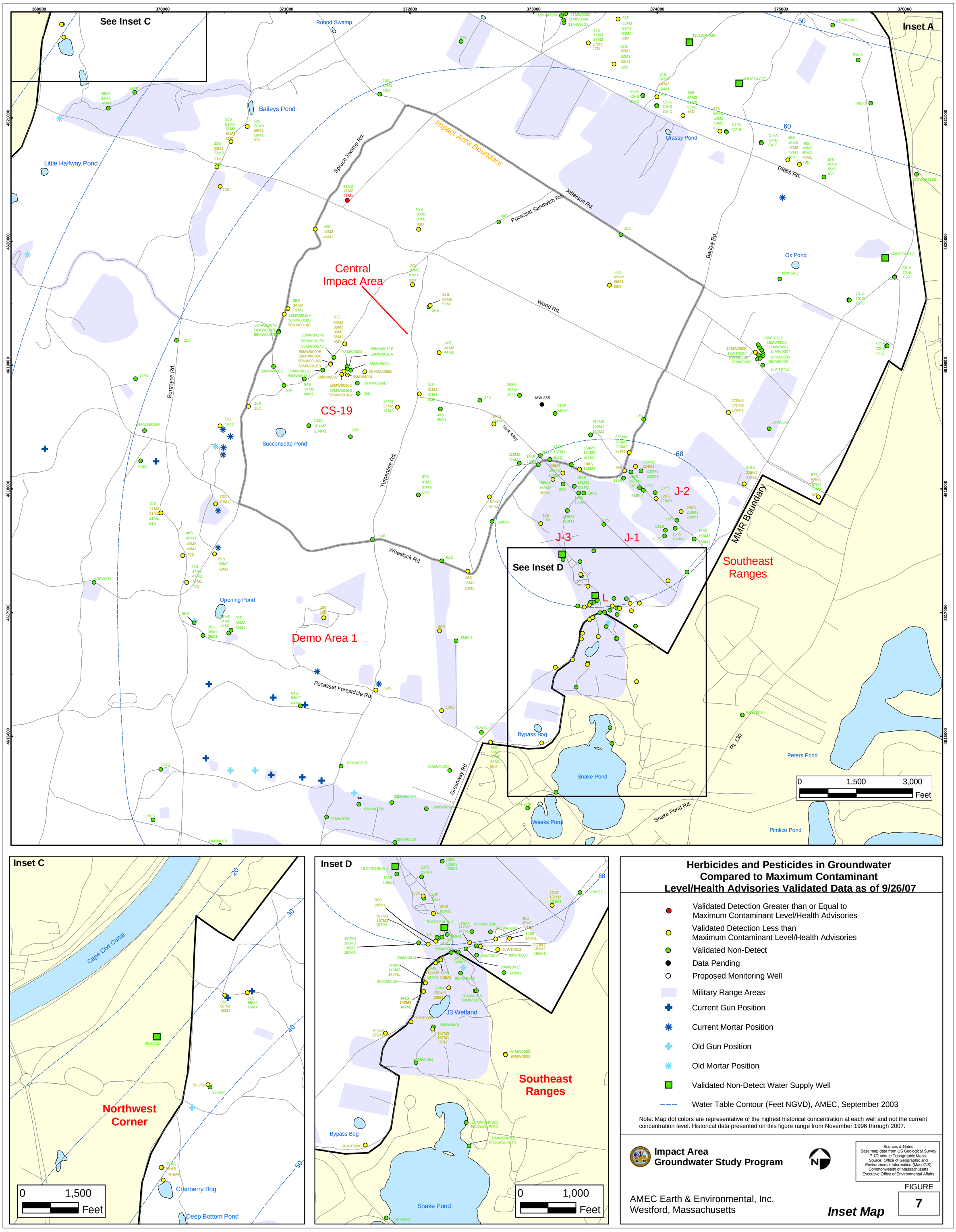
AMEC Earth & Environmental, Inc.
Westford, Massachusetts

Herbicides & Pesticides in Groundwater Compared to Maximum Contaminant Level/Health Advisories Validated Data as of 9/26/07

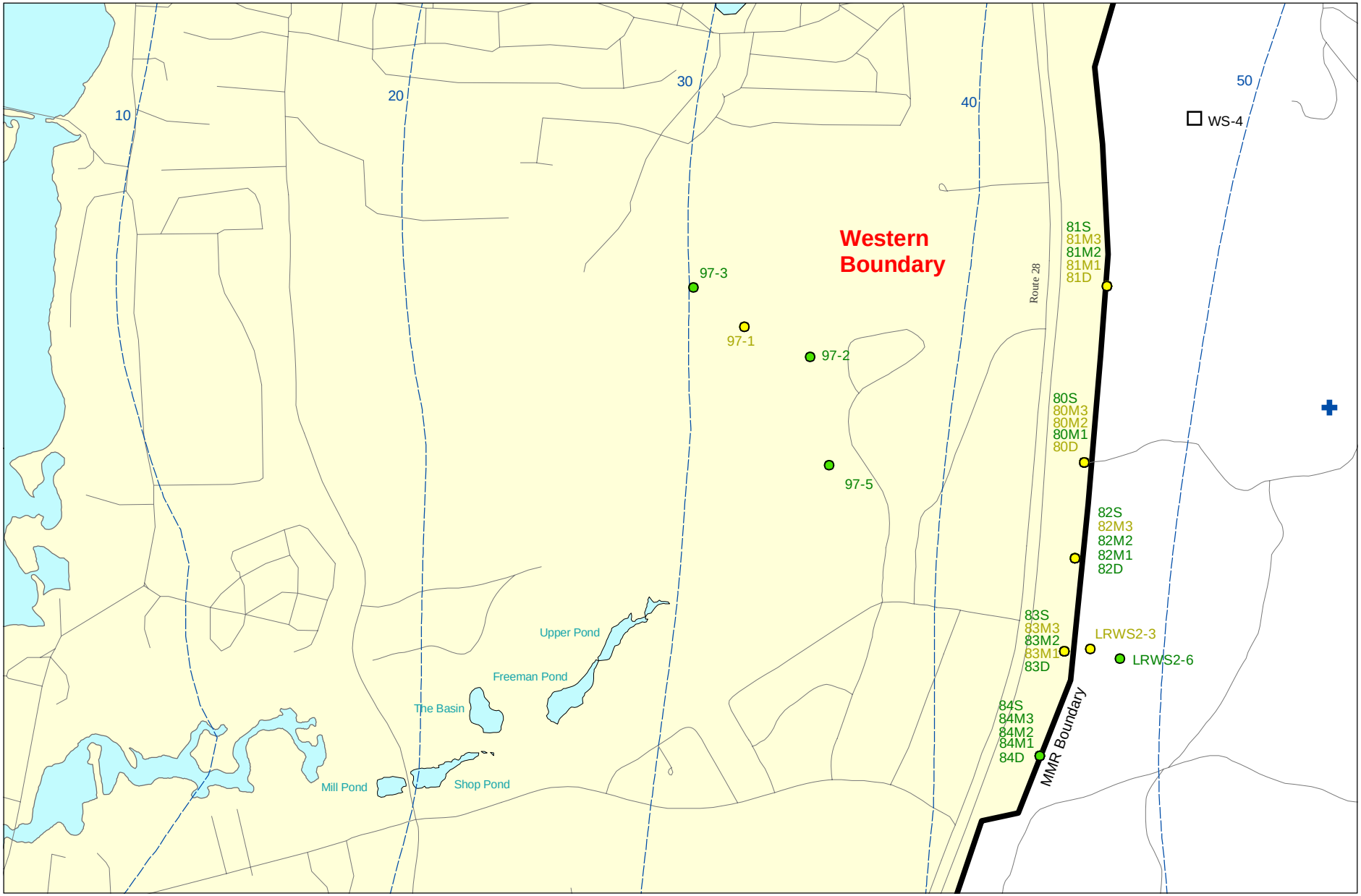
FIGURE
7

J:\GIS\2007\Monthlies\10October07\7_Pesticides\Pest_Overall_October07.pdf
G:\MMR_COE\Work2007\Monthlies\10October07\7_Pest\Pest_Overall_October07.mxd
October 9, 2007 DWN: KMP CHKD: AW

Impact Area Groundwater Study Program



J:\GIS\2007\Monthlies\10October\7_Pesticides\Pest_InsetA_October07.pdf G:\MMR_COE\Work2007\Monthlies\10October07\7_Pest\Pest_InsetA_October07.mxd October 9, 2007 DWN: KMP CHKD: AW



0 625 1,250
Feet

Sources & Notes:
Base map data from US Geological Survey
7 1/2 minute Topographic maps.
Source: Office of Geographic and
Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

Validated Detection Less than Maximum Contaminant Level/Health Advisories

Validated Non-Detect

Proposed Water Supply Well

Current Gun Position

Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

Herbicides & Pesticides in Groundwater Compared to Maximum Contaminant Level/Health Advisories
Validated Data as of 9/26/07

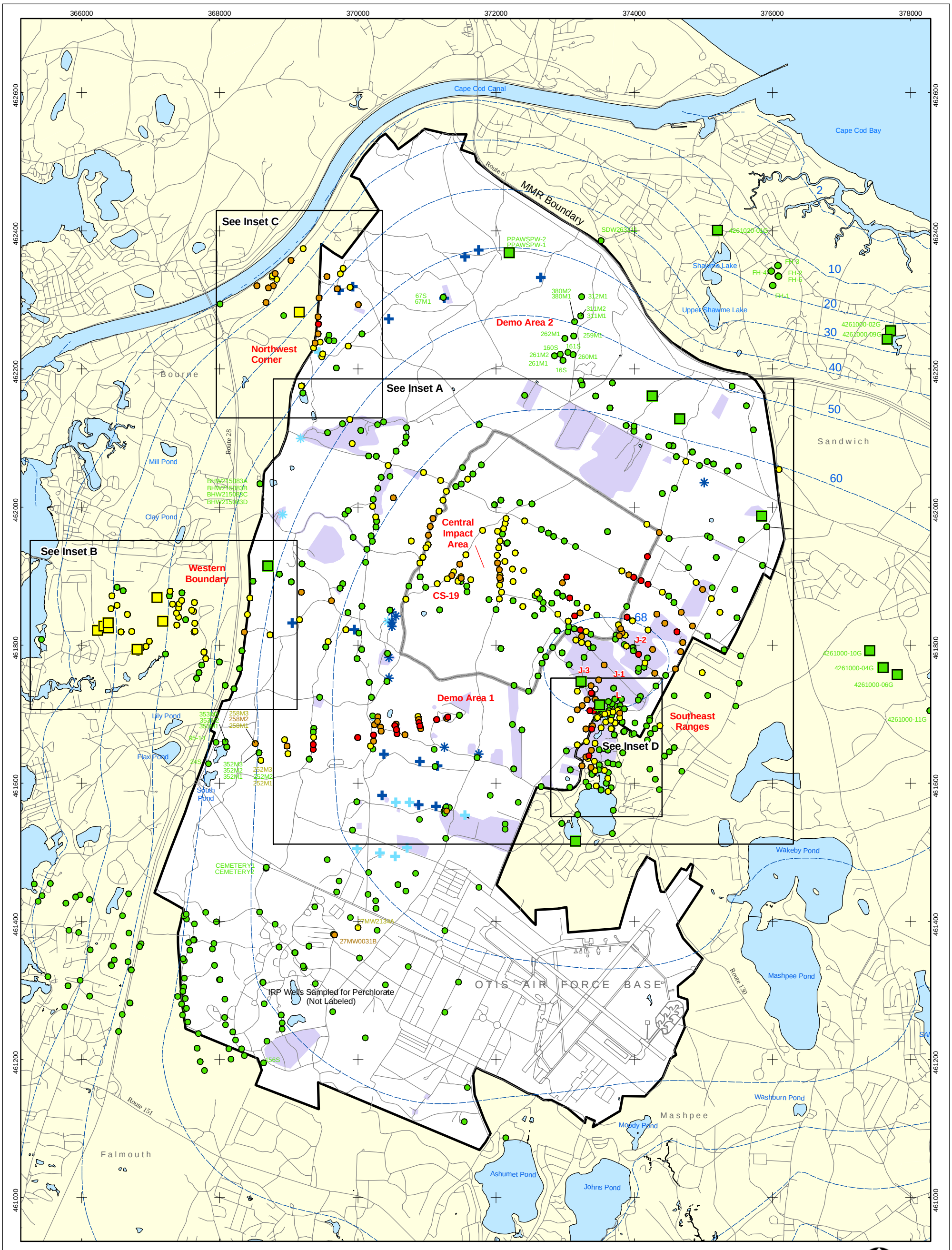
Impact Area Groundwater Study Program

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE

Inset Map B **7**

J:\GIS\2007\Monthlies\10October\7_Pesticides\Pest_InsetB_October07.pdf G:\MMR_COE\Work2007\Monthlies\10October07\7_Pest\Pest_InsetB_October07.mxd October 9, 2007 DWN: KMP CHKD: AW



- Validated Detection Greater than or Equal to 24 ppb
- Validated Detection Greater than or Equal to 2 and Less than 24 ppb
- Validated Detection Greater than Non-Detect and Less than 2 ppb
- Validated Non-Detect

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

- Data Pending
- Proposed Monitoring Well
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position

- Validated Non-Detect Water Supply Well
- Validated Detection Less than 2 ppb Water Supply Well
- Proposed Water Supply Well
- Water Table Contour (Feet NGVD) AMEC, September 2003
- Military Range Areas

N

0 2,000 4,000
Feet

Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

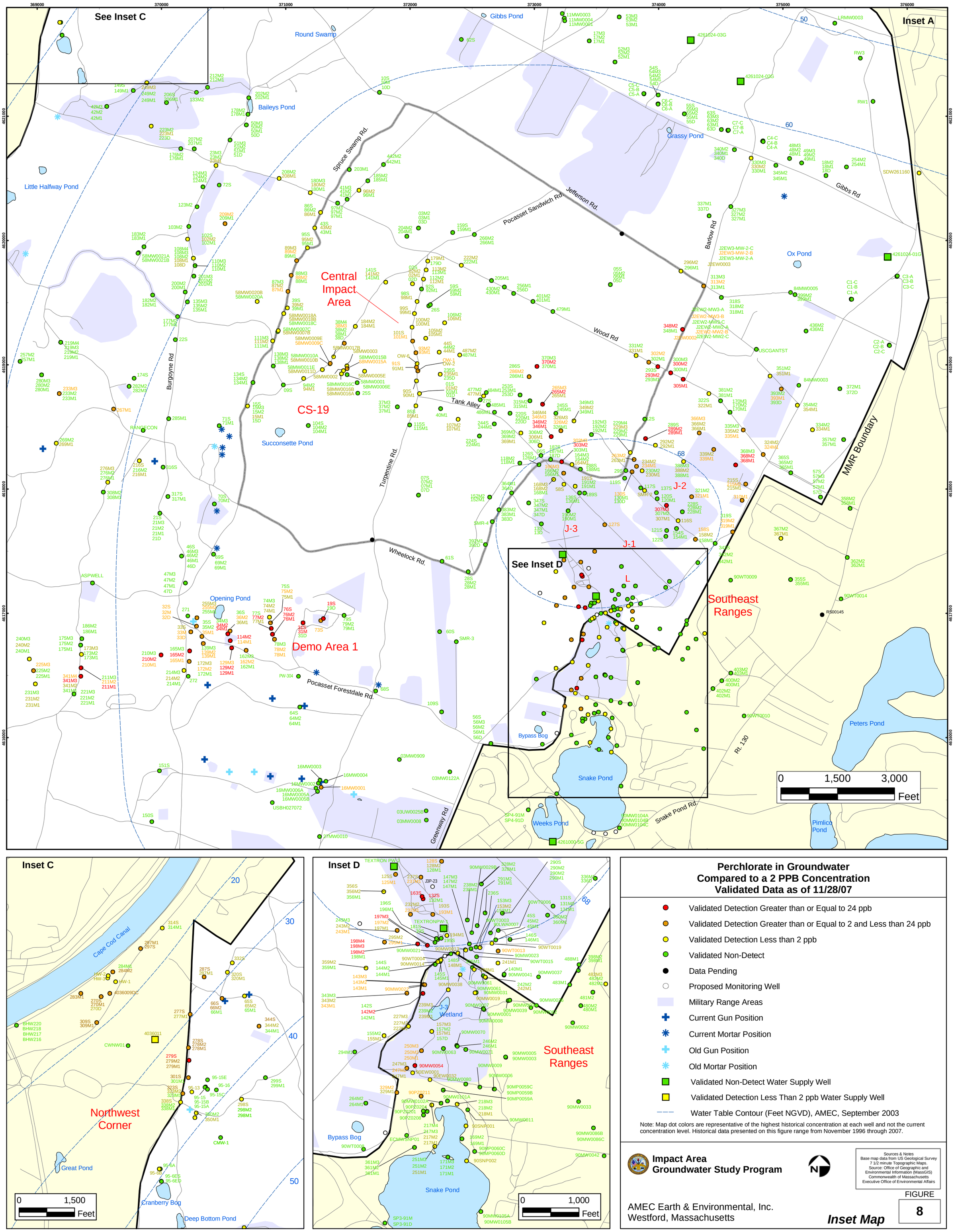
AMEC Earth & Environmental, Inc.
Westford, Massachusetts

Perchlorate in Groundwater
Compared to a 2 ppb Concentration
Validated Data as of 11/28/07

FIGURE
8

J:\GIS\2007\Monthlies\12December07\8_Perchlorate\Perch_Overall_December07.pdf
G:\MMR_COE\Work2007\Monthlies\12December07\8_Perch\Perch_Overall_December07.mxd
December 7, 2007 DWN: KMP DJK CHKD: AW

Impact Area Groundwater Study Program



Perchlorate in Groundwater Compared to a 2 PPB Concentration Validated Data as of 11/28/07

- Validated Detection Greater than or Equal to 24 ppb
- Validated Detection Greater than or Equal to 2 and Less than 24 ppb
- Validated Detection Less than 2 ppb
- Validated Non-Detect
- Data Pending
- Proposed Monitoring Well
- Military Range Areas
- Current Gun Position
- Current Mortar Position
- Old Gun Position
- Old Mortar Position
- Validated Non-Detect Water Supply Well
- Validated Detection Less Than 2 ppb Water Supply Well
- Water Table Contour (Feet NGVD), AMEC, September 2003

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level. Historical data presented on this figure range from November 1996 through 2007.

Impact Area Groundwater Study Program

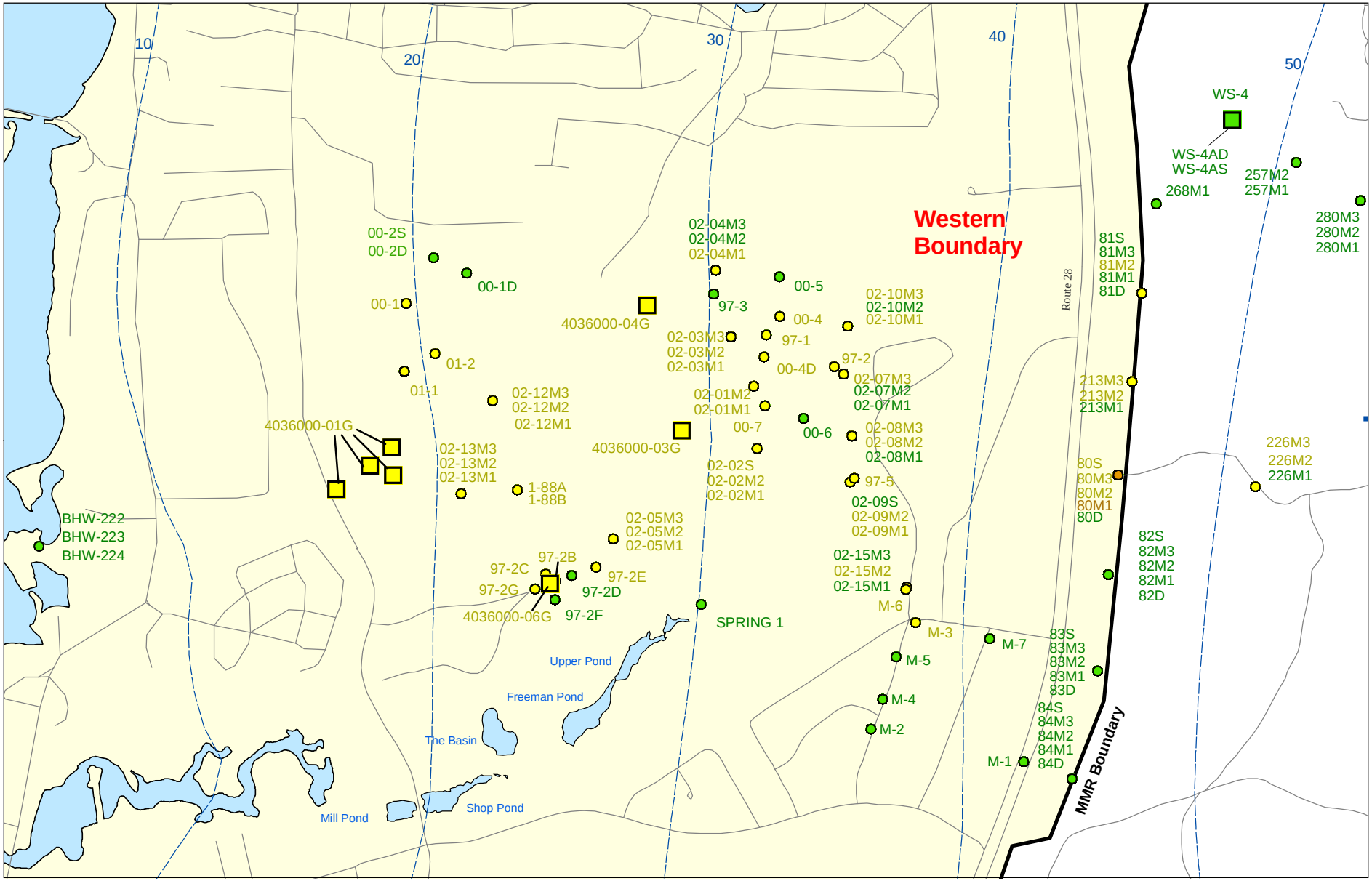
Sources & Notes
Base map data from US Geological Survey 7 1/2 minute Topographic Maps.
Source: Office of Geographic and Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE 8

Inset Map

J:\GIS\2007\Monthlies\12December07\8_Perchlorate\Perch_InsetA_December07.pdf G:\MMR_COE\Work2007\Monthlies\12December07\8_Perch\Perch_InsetA_December07.mxd December 7, 2007 DWN: KMP DJK CHKD: AW



0 625 1,250 Feet

Sources & Notes:
Base map data from US Geological Survey
7 1/2 minute Topographic maps.
Source: Office of Geographic and
Environmental Information (MassGIS)
Commonwealth of Massachusetts
Executive Office of Environmental Affairs

AMEC Earth & Environmental, Inc.
Westford, Massachusetts

- Validated Detection Greater than or Equal to 2 and Less than 24 ppb
- Validated Detection Greater than Non-Detect and Less than 2 ppb
- Validated Non-Detect

Note: Map dot colors are representative of the highest historical concentration at each well and not the current concentration level.
Historical data presented on this figure range from November 1996 through 2007.

- Validated Detection Less than 2 ppb Water Supply Well
- Validated Non-Detect Water Supply Well
- Current Gun Position
- Water Table Contour (Feet NGVD) AMEC, September 2003

Perchlorate in Groundwater Compared to a 2 ppb Concentration Validated Data as of 11/28/07

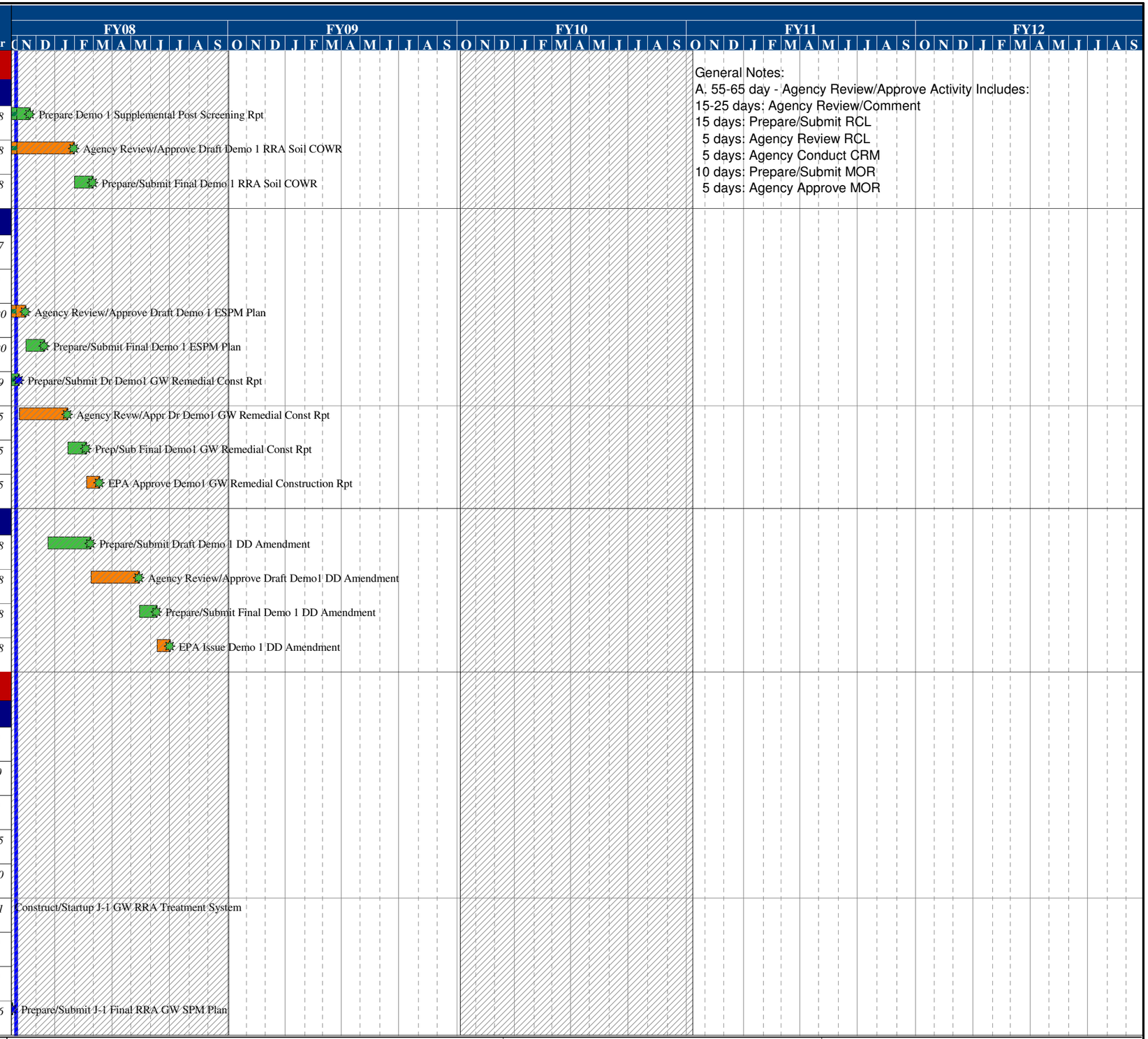
Impact Area Groundwater Study Program

FIGURE

Inset Map B **8**

J:\GIS\2007\Monthlies\12December07\8_Perchlorate\Perch_InsetB_December07.pdf G:\MMR_COE\Work2007\Monthlies\12December07\8_Perch\Perch_InsetB_December07.mxd December 7, 2007 DWN: KMP DJK CHKD: AW

Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
Demolition Area 1						
Demolition Area 1 Soil						
DM1782	Prepare Demo 1 Supplemental Post Screening Rpt	306*	15*	06SEP06A	21NOV07	-88
00145	Agency Review/Approve Draft Demo 1 RRA Soil COWR	531*	63*	22DEC05A	31JAN08	-88
DM0920	Prepare/Submit Final Demo 1 RRA Soil COWR	20	20	01FEB08	29FEB08	-88
Demolition Area 1 Groundwater						
31575	Construct/Startup Demo 1 GW Treatment System	266*	0*	01AUG06A	25JUN07A	-17
CL0010	Prepare/Submit Draft Demo 1 ESPM Plan	73*	0*	02JAN07A	19FEB07A	0
CL0100	Agency Review/Approve Draft Demo 1 ESPM Plan	188*	11*	20FEB07A	15NOV07	-120
CL0130	Prepare/Submit Final Demo 1 ESPM Plan	20	20	16NOV07	14DEC07	-120
CL0140	Prepare/Submit Dr Demo1 GW Remedial Const Rpt	40	0	26JUN07A	05NOV07A	-89
CL0220	Agency Revw/Appr Dr Demo1 GW Remedial Const Rpt	51*	55*	06NOV07A	21JAN08	-85
CL0240	Prep/Sub Final Demo1 GW Remedial Const Rpt	20	20	22JAN08	19FEB08	-85
CL0245	EPA Approve Demo1 GW Remedial Construction Rpt	15	15	20FEB08	11MAR08	-85
Demolition Area 1						
DL0000	Prepare/Submit Draft Demo 1 DD Amendment	45	45	21DEC07	26FEB08	-88
DL0080	Agency Review/Approve Draft Demo1 DD Amendment	55*	55*	27FEB08	13MAY08	-88
DL0100	Prepare/Submit Final Demo 1 DD Amendment	20	20	14MAY08	11JUN08	-88
DL0110	EPA Issue Demo 1 DD Amendment	15	15	12JUN08	02JUL08	-88
J-1 Range						
02185	Prepare/Submit Draft J-1 GW RRA Pln Project Note	66*	0*	02OCT06A	05JAN07A	0
02189	Agency Review/Approve Draft J-1 GW RRA Pjct Note	85*	0*	08JAN07A	07MAY07A	10
02192	Informal Public Comment J-1 GW RRA Project Note	15	0	23JAN07A	07FEB07A	0
0920	Prepare/Submit Final J-1 GW RRA Pln Project Note	10	0	08MAY07A	25JUL07A	-35
02187	Design J-1 GW RRA Treatment System	156*	0*	09JAN07A	12JUN07A	-30
02191	Construct/Startup J-1 GW RRA Treatment System	115	0	18JUL07A	12OCT07A	-31
CL0250	Prepare/Submit Draft J-1 RRA GW SPM Plan	98*	0*	02APR07A	01JUN07A	0
CL0330	Agency Review/Approve Draft J-1 RRA GW SPM Plan	56*	0*	01JUN07A	20AUG07A	0
CL0350	Prepare/Submit J-1 Final RRA GW SPM Plan	20	0	21AUG07A	25OCT07A	-26



General Notes:
A. 55-65 day - Agency Review/Approve Activity Includes:
15-25 days: Agency Review/Comment
15 days: Prepare/Submit RCL
5 days: Agency Review RCL
5 days: Agency Conduct CRM
10 days: Prepare/Submit MOR
5 days: Agency Approve MOR

Start Date	01JAN06
Finish Date	20DEC69
Data Date	31OCT07
Run Date	07NOV07 16:15

U228

Sheet 1 of 13

RCS - Revised Format
as of 31OCT07

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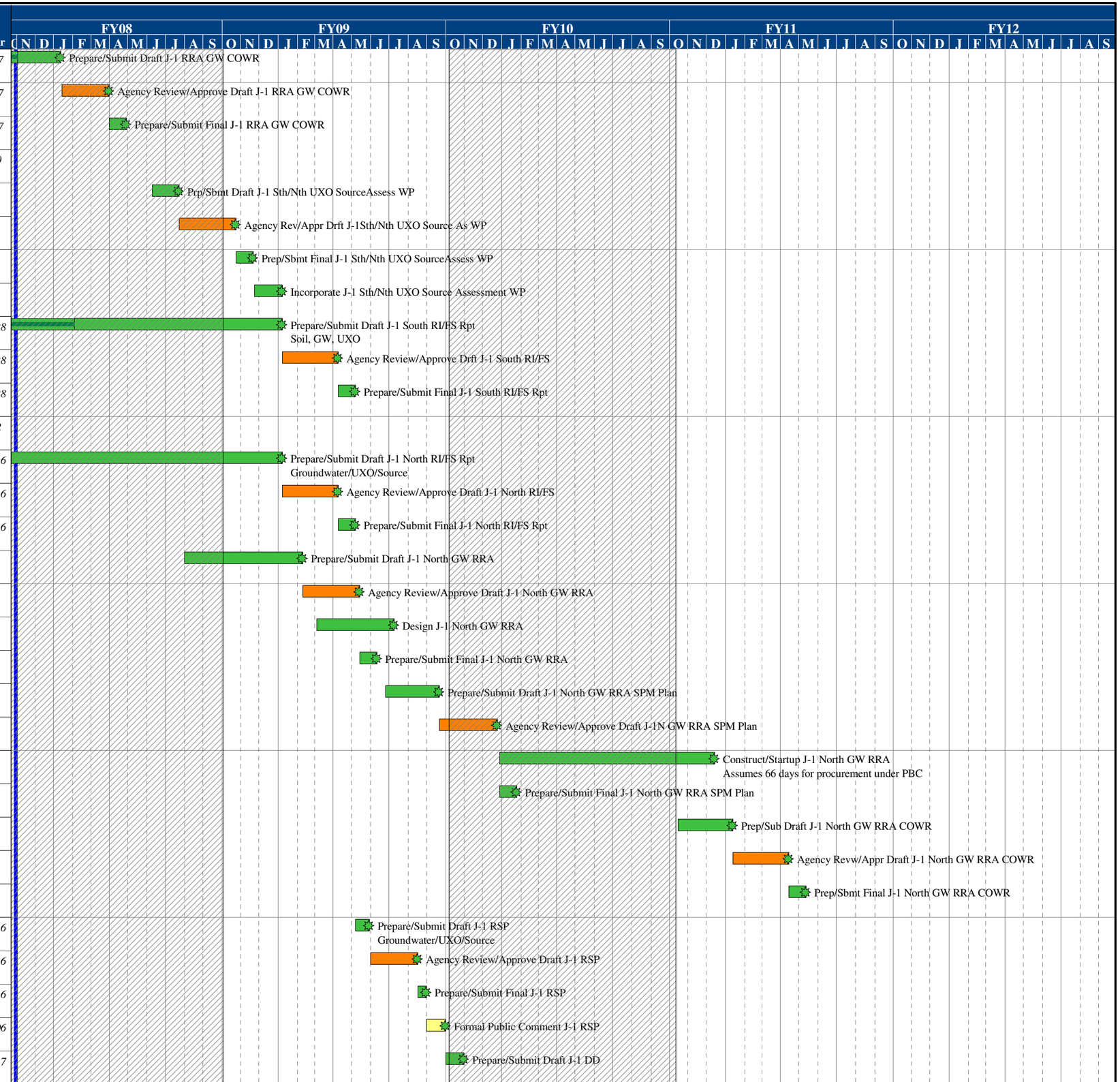
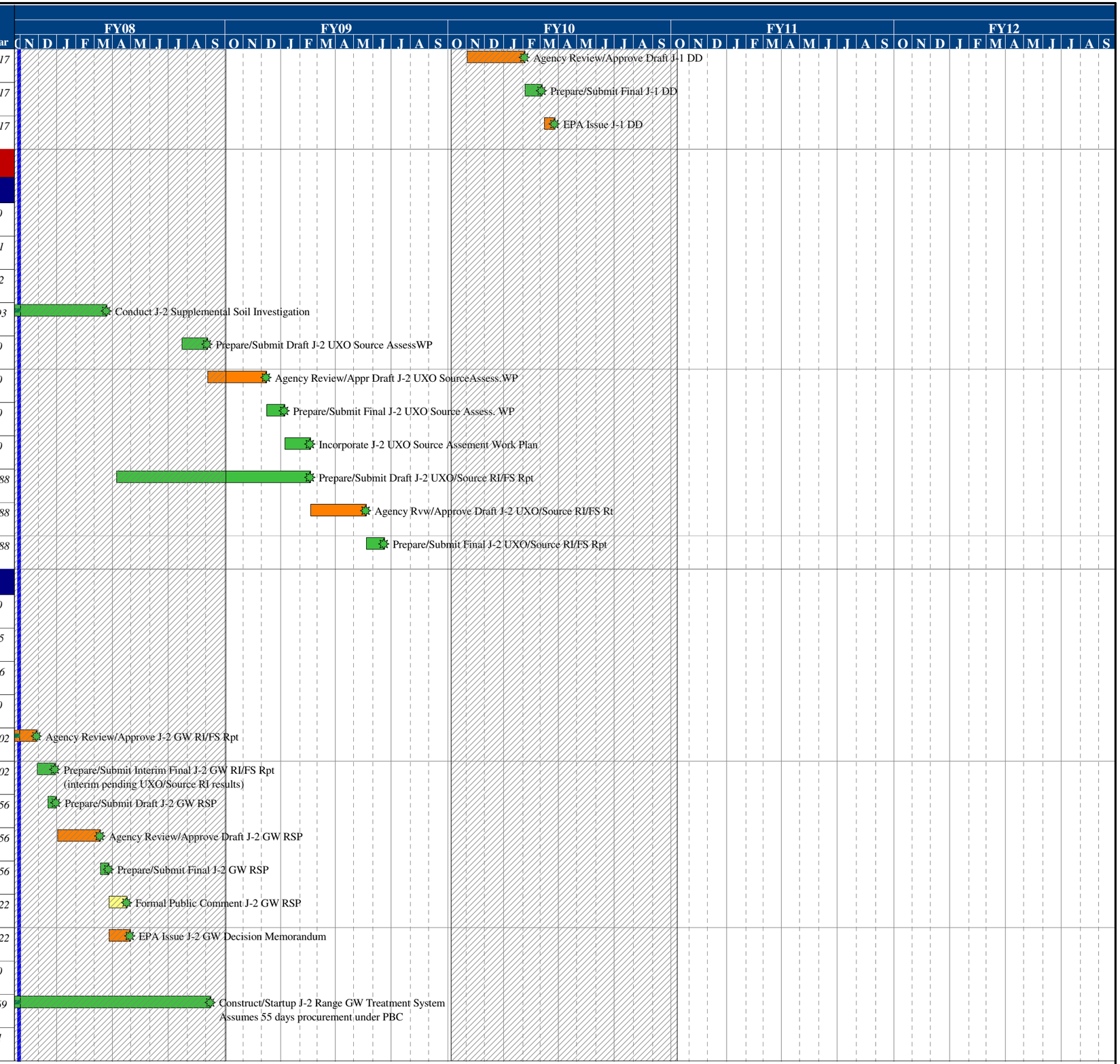
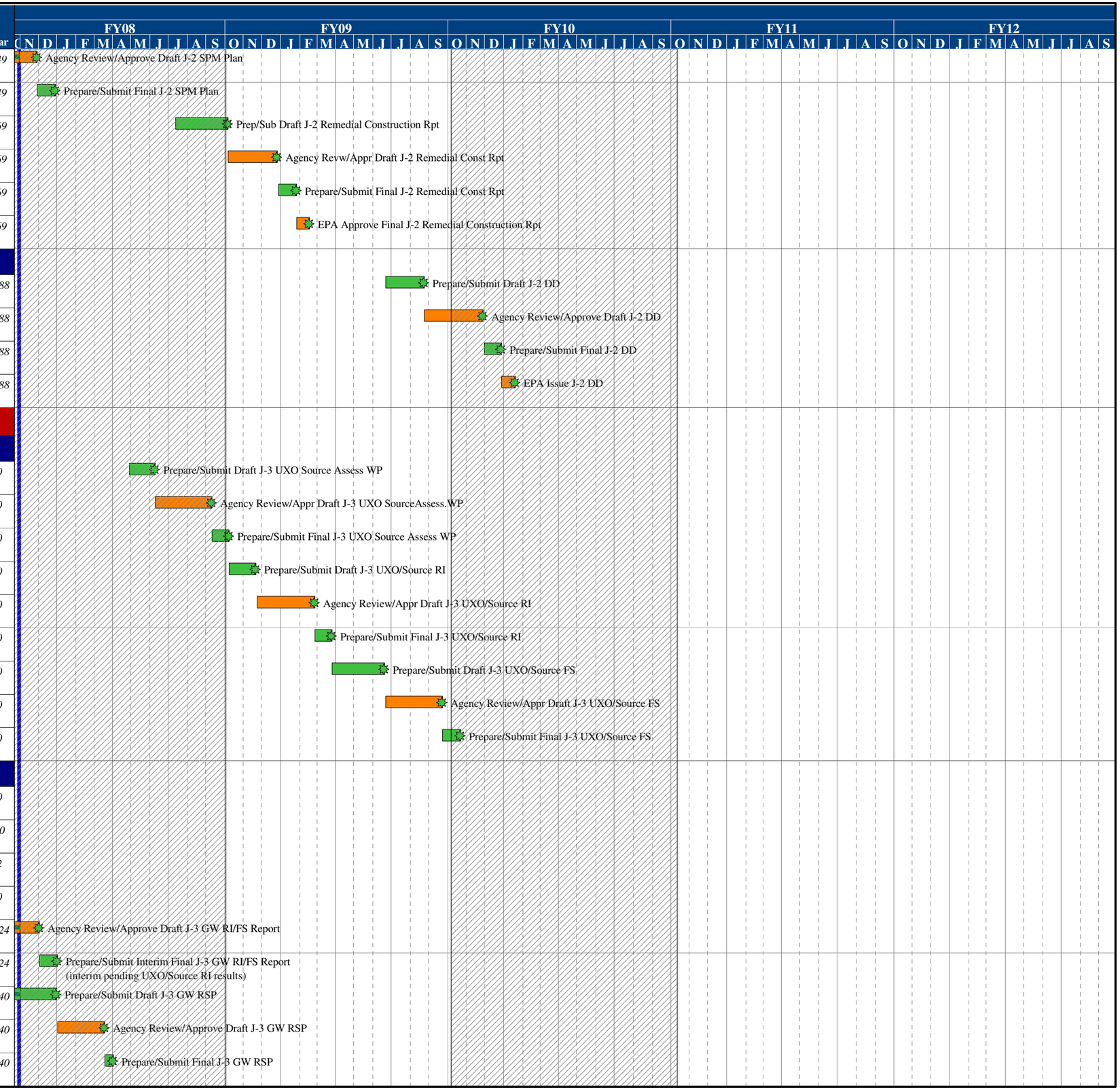
Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
CL0360	Prepare/Submit Draft J-1 RRA GW COWR	61*	49*	15OCT07A	11JAN08	-47
CL0440	Agency Review/Approve Draft J-1 RRA GW COWR	55*	55*	14JAN08	31MAR08	-47
CL0460	Prepare/Submit Final J-1 RRA GW COWR	20	20	01APR08	28APR08	-47
02165	Conduct Supplemental J-1 South Investigation	844	0	30APR04A	13JUL07A	10
U1100	Prp/Sbmt Draft J-1 Sth/Nth UXO SourceAssess WP	30	30	10JUN08	22JUL08	0
U1110	Agency Rev/Appr Drft J-1Sth/Nth UXO Source As WP	65	65	23JUL08	23OCT08	0
U1120	Prep/Sbmt Final J-1 Sth/Nth UXO SourceAssess WP	20	20	24OCT08	21NOV08	0
U1130	Incorporate J-1 Sth/Nth UXO Source Assessment WP	30	30	24NOV08	07JAN09	0
10066	Prepare/Submit Draft J-1 South RI/FS Rpt	145	91	16JUL07A	07JAN09	-228
10071	Agency Review/Approve Drft J-1 South RI/FS	65*	65*	08JAN09	09APR09	-228
10088	Prepare/Submit Final J-1 South RI/FS Rpt	20	20	10APR09	07MAY09	-228
10115	Conduct Supplemental J-1 North Investigation	88	0	01MAR07A	17AUG07A	22
10116	Prepare/Submit Draft J-1 North RI/FS Rpt	110	103	20SEP07A	07JAN09	-216
10121	Agency Review/Approve Draft J-1 North RI/FS	65*	65*	08JAN09	09APR09	-216
10138	Prepare/Submit Final J-1 North RI/FS Rpt	20	20	10APR09	07MAY09	-216
R1000	Prepare/Submit Draft J-1 North GW RRA	132	132	01AUG08*	10FEB09	0
R1010	Agency Review/Approve Draft J-1 North GW RRA	65	65	11FEB09	13MAY09	0
R1040	Design J-1 North GW RRA	88	88	05MAR09	08JUL09	0
R1020	Prepare/Submit Final J-1 North GW RRA	20	20	14MAY09	11JUN09	0
R1060	Prepare/Submit Draft J-1 North GW RRA SPM Plan	60	60	26JUN09	21SEP09	0
R1070	Agency Review/Approve Draft J-1N GW RRA SPM Plan	65	65	22SEP09	24DEC09	0
R1050	Construct/Startup J-1 North GW RRA	243	243	28DEC09	13DEC10	0
R1080	Prepare/Submit Final J-1 North GW RRA SPM Plan	20	20	28DEC09	25JAN10	0
R1090	Prep/Sub Draft J-1 North GW RRA COWR	60	60	15OCT10	12JAN11	0
R1100	Agency Revw/Appr Draft J-1 North GW RRA COWR	65	65	13JAN11	14APR11	0
R1110	Prep/Sbmt Final J-1 North GW RRA COWR	20	20	15APR11	12MAY11	0
SL0090	Prepare/Submit Draft J-1 RSP	15	15	08MAY09	29MAY09	-216
SL0100	Agency Review/Approve Draft J-1 RSP	55*	55*	01JUN09	17AUG09	-216
SL0110	Prepare/Submit Final J-1 RSP	10	10	18AUG09	31AUG09	-216
SL0120	Formal Public Comment J-1 RSP	30	30	01SEP09	01OCT09	-306
SL0130	Prepare/Submit Draft J-1 DD	20	20	02OCT09	30OCT09	-217



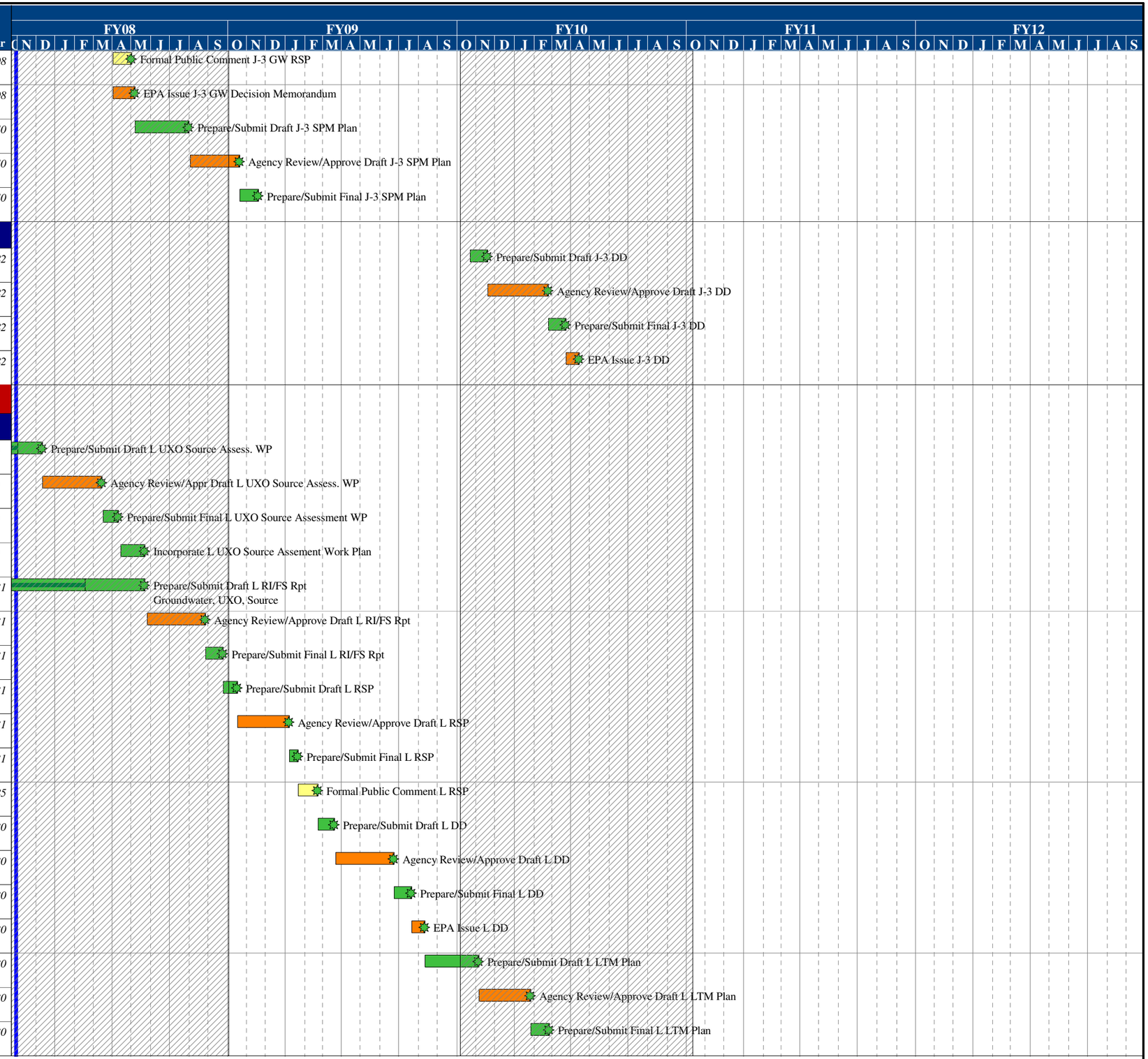
Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
SL0140	Agency Review/Approve Draft J-1 DD	65*	65*	02NOV09	04FEB10	*-217*
SL0150	Prepare/Submit Final J-1 DD	20	20	05FEB10	05MAR10	*-217*
SL0160	EPA Issue J-1 DD	15	15	08MAR10	26MAR10	*-217*
J-2 Range						
J-2 Range Soil						
03216	Prepare/Submit Draft J-2 Soil RRA COWR Addendum	45	0	13NOV06A	17JAN07A	*0*
03217	Review/Approve J-2 Soil RRA COWR Addendum	113*	0*	18JAN07A	27JUN07A	*-1*
CIA2798	Prepare/Submit Final J-2 Soil RRA COWR	20	0	28JUN07A	27JUL07A	*-2*
PW1614	Conduct J-2 Supplemental Soil Investigation	323*	98*	11DEC06A	21MAR08	*-93*
U1200	Prepare/Submit Draft J-2 UXO Source AssessWP	30	30	23JUL08	03SEP08	*0*
U1210	Agency Review/Appr Draft J-2 UXO SourceAssess.WP	65	65	04SEP08	08DEC08	*0*
U1220	Prepare/Submit Final J-2 UXO Source Assess. WP	20	20	09DEC08	07JAN09	*0*
U1230	Incorporate J-2 UXO Source Assement Work Plan	30	30	08JAN09	19FEB09	*0*
00325	Prepare/Submit Draft J-2 UXO/Source RI/FS Rpt	220	220	07APR08	19FEB09	*-188*
00329	Agency Rvw/Approve Draft J-2 UXO/Source RI/FS Rt	65*	65*	20FEB09	21MAY09	*-188*
J20038	Prepare/Submit Final J-2 UXO/Source RI/FS Rpt	20	20	22MAY09	19JUN09	*-188*
J-2 Range Groundwater						
CL0830	Prepare/Submit Draft J-2 GW RRA COWR	167*	0*	23AUG06A	23FEB07A	*0*
CL0910	Agency Review/Approve Draft J-2 GW COWR	91*	0*	26FEB07A	03JUL07A	*-5*
CL0930	Prepare/Submit Final J-2 GW RRA COWR	44	0	05JUL07A	23JUL07A	*26*
00699	Prepare/Submit Draft J-2 GW RI/FS Rpt	190*	0*	27APR06A	17JAN07A	*0*
00353	Agency Review/Approve J-2 GW RI/FS Rpt	219*	20*	18JAN07A	29NOV07	*-102*
0698	Prepare/Submit Interim Final J-2 GW RI/FS Rpt	20	20	30NOV07	28DEC07	*-102*
CL1200	Prepare/Submit Draft J-2 GW RSP	10	10	17DEC07*	31DEC07	*-156*
CL1280	Agency Review/Approve Draft J-2 GW RSP	50*	50*	02JAN08	12MAR08	*-156*
CL1300	Prepare/Submit Final J-2 GW RSP	10	10	13MAR08	26MAR08	*-156*
CL1305	Formal Public Comment J-2 GW RSP	30	30	27MAR08	25APR08	*-222*
CL1306	EPA Issue J-2 GW Decision Memorandum	35	35	27MAR08	30APR08	*-222*
00368	Design J-2 Range GW Treatment System	90*	0*	12APR07A	29JUN07A	*0*
00369	Construct/Startup J-2 Range GW Treatment System	254*	216*	06SEP07A	08SEP08	*-69*
CL0500	Prepare/Submit Draft J-2 SPM Plan	27	0	13JUN07A	28JUN07A	*1*



Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
CL0580	Agency Review/Approve Draft J-2 SPM Plan	105*	20*	29JUN07A	29NOV07	-49
CL0600	Prepare/Submit Final J-2 SPM Plan	20	20	30NOV07	28DEC07	-49
CL0605	Prep/Sub Draft J-2 Remedial Construction Rpt	60	60	14JUL08	06OCT08	-69
CL0615	Agency Revw/Appr Draft J-2 Remedial Const Rpt	55	55	07OCT08	26DEC08	-69
CL0625	Prepare/Submit Final J-2 Remedial Const Rpt	20	20	29DEC08	26JAN09	-69
CL0635	EPA Approve Final J-2 Remedial Construction Rpt	15	15	27JAN09	17FEB09	-69
J-2 Range						
SL0300	Prepare/Submit Draft J-2 DD	45	45	22JUN09	24AUG09	-188
SL0310	Agency Review/Approve Draft J-2 DD	65*	65*	25AUG09	27NOV09	-188
SL0330	Prepare/Submit Final J-2 DD	20	20	30NOV09	28DEC09	-188
SL0340	EPA Issue J-2 DD	15	15	29DEC09	19JAN10	-188
J-3 Range						
J-3 Range Soil						
U1300	Prepare/Submit Draft J-3 UXO Source Assess WP	30	30	28APR08	09JUN08	0
U1310	Agency Review/Appr Draft J-3 UXO SourceAssess.WP	65	65	10JUN08	10SEP08	0
U1320	Prepare/Submit Final J-3 UXO Source Assess WP	20	20	11SEP08	08OCT08	0
U1340	Prepare/Submit Draft J-3 UXO/Source RI	30	30	09OCT08	21NOV08	0
U1350	Agency Review/Appr Draft J-3 UXO/Source RI	65	65	24NOV08	26FEB09	0
U1360	Prepare/Submit Final J-3 UXO/Source RI	20	20	27FEB09	26MAR09	0
U1370	Prepare/Submit Draft J-3 UXO/Source FS	60	60	27MAR09	19JUN09	0
U1380	Agency Review/Appr Draft J-3 UXO/Source FS	65	65	22JUN09	22SEP09	0
U1390	Prepare/Submit Final J-3 UXO/Source FS	20	20	23SEP09	21OCT09	0
J-3 Range Groundwater						
CL1050	Prepare/Submit Draft J-3 GW RRA COWR	126*	0*	18AUG06A	15FEB07A	0
CL1130	Agency Review/Approve Draft J-3 GW RRA COWR	90*	0*	16FEB07A	25JUN07A	10
CL1150	Prepare/Submit Final J-3 GW RRA COWR	11	0	26JUN07A	23JUL07A	2
10000	Prepare/Submit Draft J-3 GW RI/FS Report	204*	0*	13MAR06A	06DEC06A	0
10009	Agency Review/Approve Draft J-3 GW RI/FS Report	249*	22*	07DEC06A	03DEC07	-124
10020	Prepare/Submit Interim Final J-3 GW RI/FS Report	20	20	04DEC07	02JAN08	-124
DL0500	Prepare/Submit Draft J-3 GW RSP	268*	41*	07DEC06A	31DEC07	-140
DL0530	Agency Review/Approve Draft J-3 GW RSP	55*	55*	02JAN08	19MAR08	-140
DL0550	Prepare/Submit Final J-3 GW RSP	10	10	20MAR08	02APR08	-140

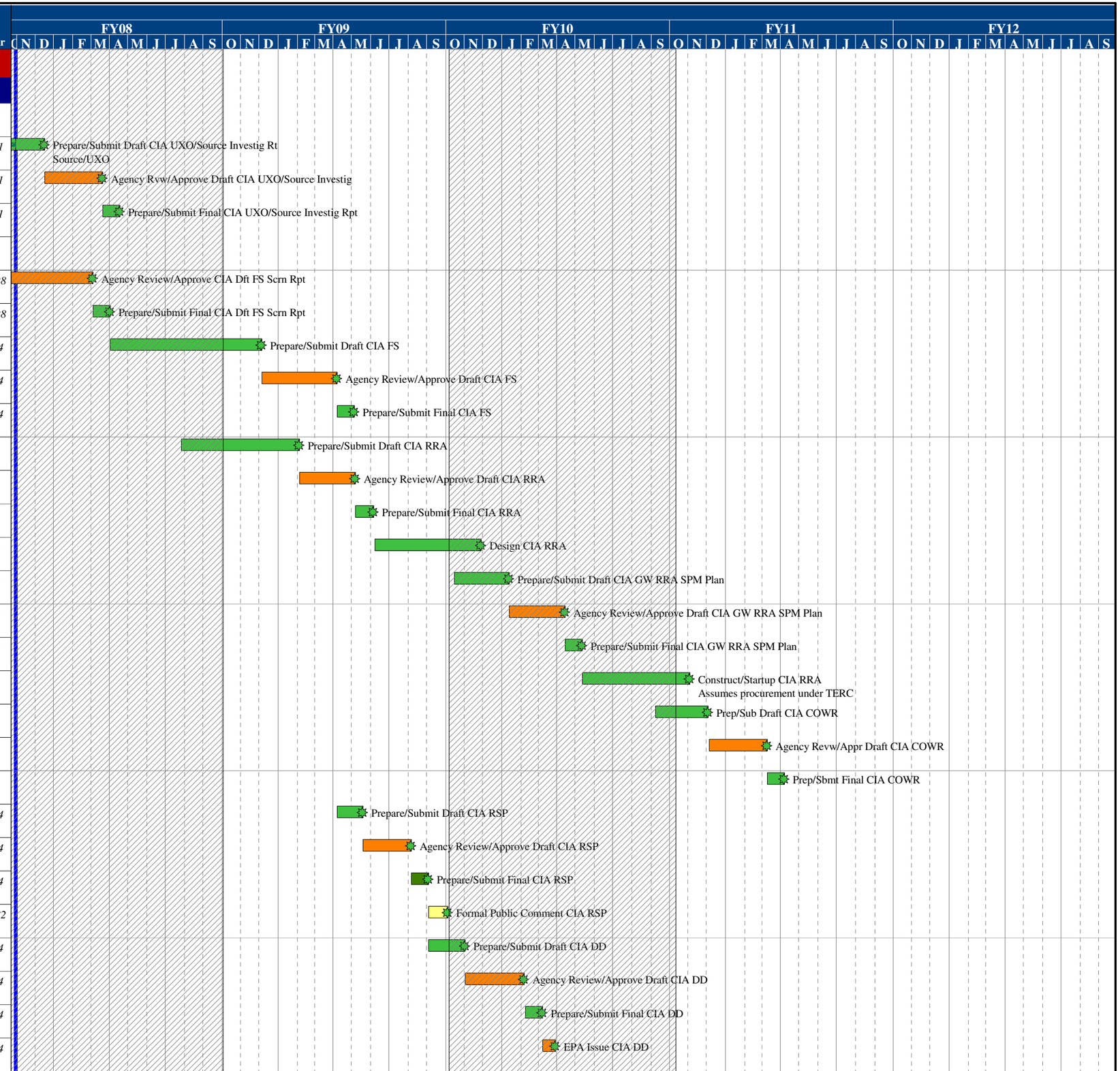


Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
DL0560	Formal Public Comment J-3 GW RSP	30	30	03APR08	02MAY08	-198
DL0561	EPA Issue J-3 GW Decision Memorandum	35	35	03APR08	07MAY08	-198
DL0562	Prepare/Submit Draft J-3 SPM Plan	60	60	08MAY08	01AUG08	-140
DL0563	Agency Review/Approve Draft J-3 SPM Plan	55	55	04AUG08	21OCT08	-140
DL0564	Prepare/Submit Final J-3 SPM Plan	20	20	22OCT08	19NOV08	-140
J-3 Range						
DL0570	Prepare/Submit Draft J-3 DD	20	20	22OCT09	19NOV09	-382
DL0620	Agency Review/Approve Draft J-3 DD	65*	65*	20NOV09	24FEB10	-382
DL0640	Prepare/Submit Final J-3 DD	20	20	25FEB10	24MAR10	-382
DL0650	EPA Issue J-3 DD	15	15	25MAR10	14APR10	-382
L Range						
U1400	Prepare/Submit Draft L UXO Source Assess. WP	40*	28*	15OCT07A	11DEC07	0
U1410	Agency Review/Appr Draft L UXO Source Assess. WP	65	65	12DEC07	14MAR08	0
U1420	Prepare/Submit Final L UXO Source Assessment WP	20	20	17MAR08	11APR08	0
U1430	Incorporate L UXO Source Assement Work Plan	30	30	14APR08	23MAY08	0
0703	Prepare/Submit Draft L RI/FS Rpt	129	33	15MAY07A	23MAY08	-131
0724	Agency Review/Approve Draft L RI/FS Rpt	65*	65*	27MAY08	26AUG08	-131
0722	Prepare/Submit Final L RI/FS Rpt	20	20	27AUG08	24SEP08	-131
SL0382	Prepare/Submit Draft L RSP	15	15	25SEP08	16OCT08	-131
SL0383	Agency Review/Approve Draft L RSP	55	55	17OCT08	07JAN09	-131
SL0384	Prepare/Submit Final L RSP	10	10	08JAN09	21JAN09	-131
SL0386	Formal Public Comment L RSP	30	30	22JAN09	21FEB09	-185
SL0388	Prepare/Submit Draft L DD	20	20	23FEB09	20MAR09	-130
SL0391	Agency Review/Approve Draft L DD	65*	65*	23MAR09	22JUN09	-130
SL0392	Prepare/Submit Final L DD	20	20	23JUN09	21JUL09	-130
SL0394	EPA Issue L DD	15	15	22JUL09	11AUG09	-130
SL0400	Prepare/Submit Draft L LTM Plan	60	60	12AUG09	05NOV09	-130
SL0410	Agency Review/Approve Draft L LTM Plan	55*	55*	06NOV09	27JAN10	-130
SL0420	Prepare/Submit Final L LTM Plan	20	20	28JAN10	25FEB10	-130

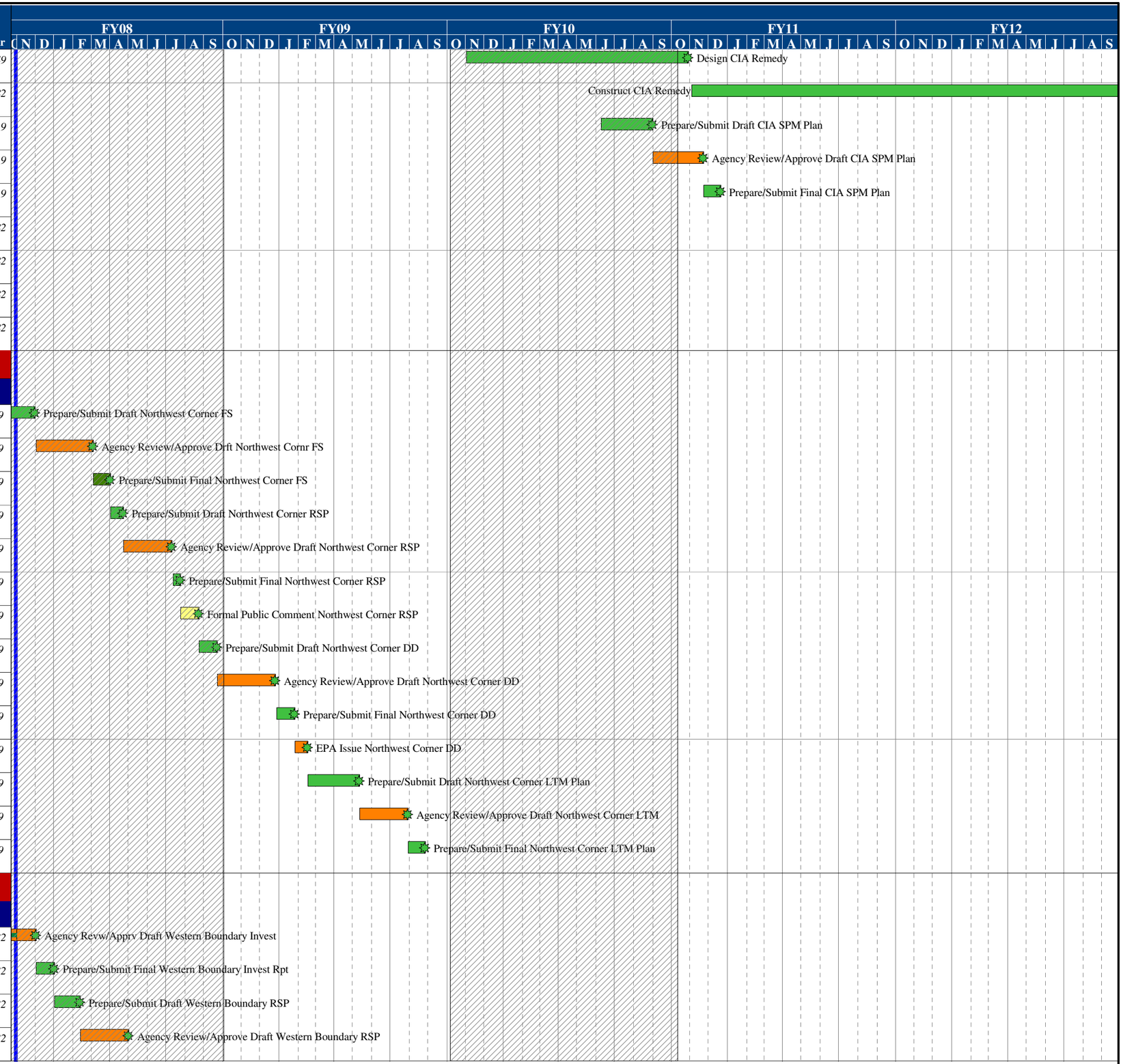


Central Impact Area

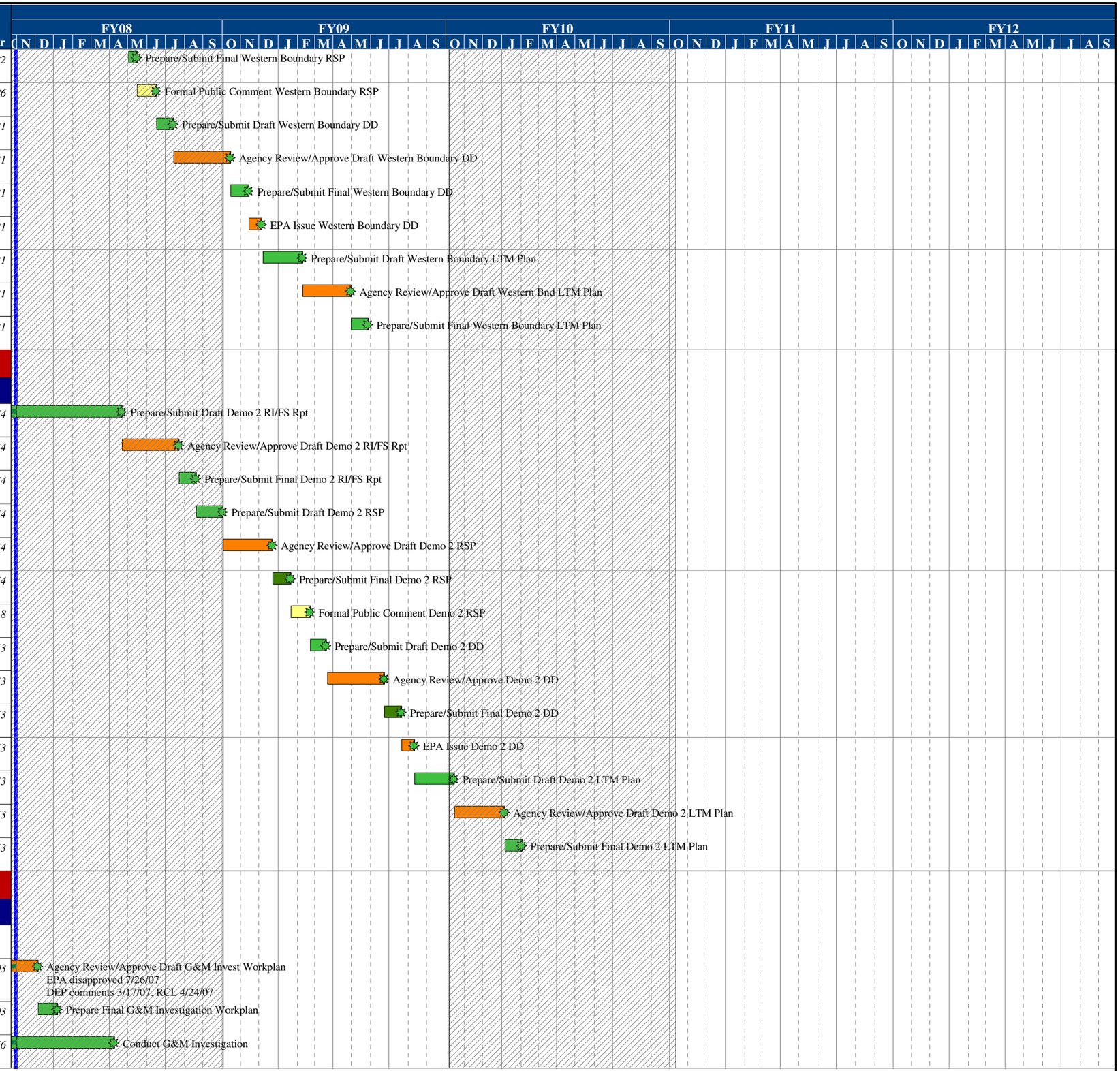
Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
CIA2770	Prepare/Submit Final CIA Soil RRA COWR	122*	0*	19OCT06A	01MAR07A	0
00261	Prepare/Submit Draft CIA UXO/Source Investig Rt	920	32	04APR04A	17DEC07	-21
00263	Agency Rvw/Approve Draft CIA UXO/Source Investig	65	65	18DEC07	20MAR08	-21
00299	Prepare/Submit Final CIA UXO/Source Investig Rpt	20	20	21MAR08	17APR08	-21
22110	Prepare/Submit Drft CIA FS Screening Rpt	504*	0*	14APR05A	13APR07A	0
22130	Agency Review/Approve CIA Dft FS Scrn Rpt	85	85	16APR07A	04MAR08	-128
22131	Prepare/Submit Final CIA Dft FS Scrn Rpt	20	20	05MAR08	01APR08	-128
22210	Prepare/Submit Draft CIA FS	170	170	03APR08	04DEC08	-94
22230	Agency Review/Approve Draft CIA FS	85	85	05DEC08	07APR09	-94
22231	Prepare/Submit Final CIA FS	20	20	08APR09	05MAY09	-94
R2000	Prepare/Submit Draft CIA RRA	132	132	28JUL08	04FEB09	0
R2010	Agency Review/Approve Draft CIA RRA	65	65	05FEB09	07MAY09	0
R2020	Prepare/Submit Final CIA RRA	20	20	08MAY09	05JUN09	0
R2030	Design CIA RRA	120	120	08JUN09	27NOV09	0
R2050	Prepare/Submit Draft CIA GW RRA SPM Plan	60	60	15OCT09	12JAN10	0
R2060	Agency Review/Approve Draft CIA GW RRA SPM Plan	65	65	13JAN10	14APR10	0
R2070	Prepare/Submit Final CIA GW RRA SPM Plan	20	20	15APR10	12MAY10	0
R2040	Construct/Startup CIA RRA	121	121	13MAY10	03NOV10	0
R2080	Prep/Sub Draft CIA COWR	60	60	08SEP10	03DEC10	0
R2090	Agency Revw/Appr Draft CIA COWR	65	65	06DEC10	09MAR11	0
R2100	Prep/Sbmt Final CIA COWR	20	20	10MAR11	06APR11	0
32510	Prepare/Submit Draft CIA RSP	30	30	08APR09	19MAY09	-94
32520	Agency Review/Approve Draft CIA RSP	55	55	20MAY09	06AUG09	-94
32530	Prepare/Submit Final CIA RSP	20	20	07AUG09	03SEP09	-94
32540	Formal Public Comment CIA RSP	30	30	04SEP09	04OCT09	-132
CI0080	Prepare/Submit Draft CIA DD	40	40	04SEP09	02NOV09	-94
CI0090	Agency Review/Approve Draft CIA DD	65	65	03NOV09	05FEB10	-94
CI0100	Prepare/Submit Final CIA DD	20	20	08FEB10	08MAR10	-94
CI0110	EPA Issue CIA DD	15	15	09MAR10	29MAR10	-94



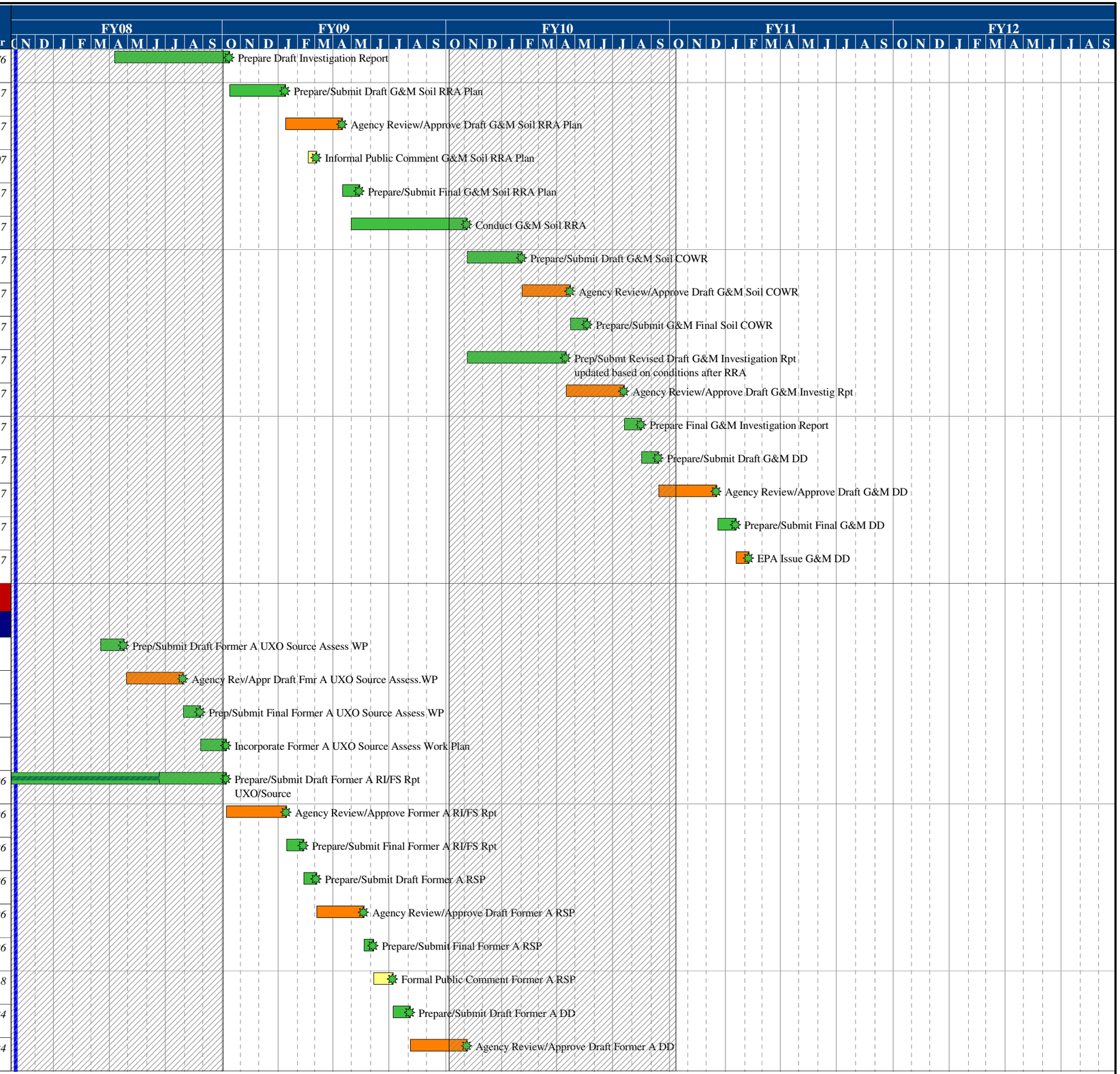
Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
32579	Design CIA Remedy	250	250	03NOV09	29OCT10	-249
32580	Construct CIA Remedy	1,009	1,009	04NOV10	03NOV14	-282
CI0120	Prepare/Submit Draft CIA SPM Plan	60	60	09JUN10	01SEP10	-219
CI0130	Agency Review/Approve Draft CIA SPM Plan	55	55	02SEP10	22NOV10	-219
CI0140	Prepare/Submit Final CIA SPM Plan	20	20	23NOV10	21DEC10	-219
CI0150	Prep/Sub Draft CIA Remedial Construction Rpt	60	60	08SEP14	03DEC14	-282
CI0160	Agency Revw/Appr Draft CIA Remedial Constr Rpt	55	55	04DEC14	23FEB15	-282
CI0170	Prepare/Submit CIA Remedial Construction Rpt	20	20	24FEB15	23MAR15	-282
CI0180	EPA Approve CIA Remedial Construction Rpt	15	15	24MAR15	13APR15	-282
Northwest Corner						
03451	Prepare/Submit Draft Northwest Corner FS	185*	21*	09NOV06A	30NOV07	-49
03453	Agency Review/Approve Drft Northwest Cornr FS	65*	65*	03DEC07	05MAR08	-49
03454	Prepare/Submit Final Northwest Corner FS	20	20	06MAR08	02APR08	-49
SL0600	Prepare/Submit Draft Northwest Corner RSP	15	15	03APR08	23APR08	-49
SL0610	Agency Review/Approve Draft Northwest Corner RSP	55*	55*	24APR08	11JUL08	-49
SL0620	Prepare/Submit Final Northwest Corner RSP	10	10	14JUL08	25JUL08	-49
SL0630	Formal Public Comment Northwest Corner RSP	30	30	26JUL08	24AUG08	-69
SL0640	Prepare/Submit Draft Northwest Corner DD	20	20	25AUG08	22SEP08	-49
SL0650	Agency Review/Approve Draft Northwest Corner DD	65*	65*	23SEP08	26DEC08	-49
SL0660	Prepare/Submit Final Northwest Corner DD	20	20	29DEC08	26JAN09	-49
SL0670	EPA Issue Northwest Corner DD	15	15	27JAN09	17FEB09	-49
SL0680	Prepare/Submit Draft Northwest Corner LTM Plan	60	60	18FEB09	12MAY09	-49
SL0690	Agency Review/Approve Draft Northwest Corner LTM	55	55	13MAY09	30JUL09	-49
SL0700	Prepare/Submit Final Northwest Corner LTM Plan	20	20	31JUL09	27AUG09	-49
Western Boundary						
03494	Agency Revw/Apprv Draft Western Boundary Invest	344*	22*	24JUL06A	03DEC07	-132
WB1020	Prepare/Submit Final Western Boundary Invest Rpt	20	20	04DEC07	02JAN08	-132
WB1022	Prepare/Submit Draft Western Boundary RSP	30	30	03JAN08	13FEB08	-132
WB1024	Agency Review/Approve Draft Western Boundary RSP	55*	55*	14FEB08	01MAY08	-132



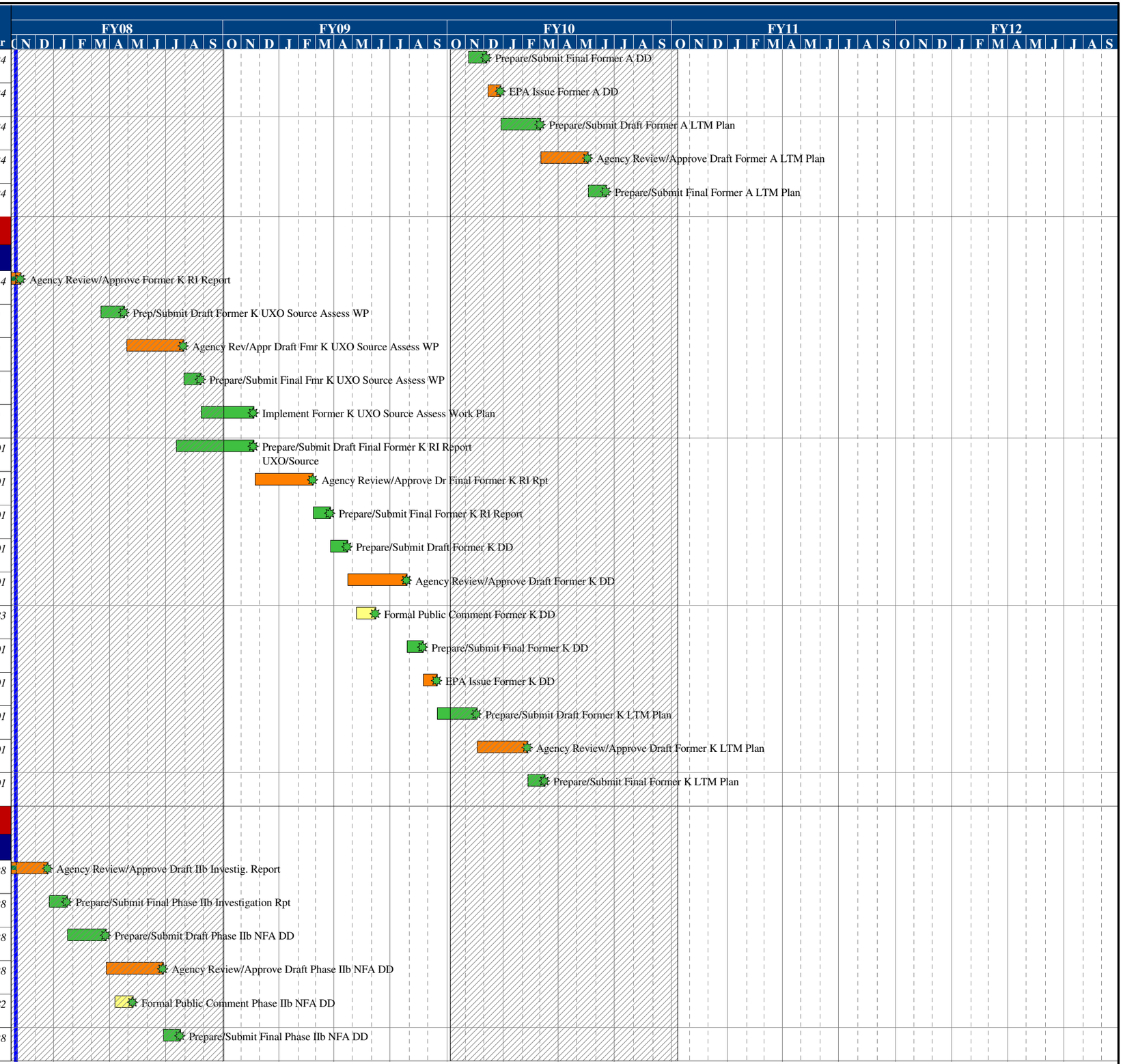
Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
WB1026	Prepare/Submit Final Western Boundary RSP	10	10	02MAY08	15MAY08	-132
WB1028	Formal Public Comment Western Boundary RSP	30	30	16MAY08	15JUN08	-186
WB4010	Prepare/Submit Draft Western Boundary DD	20	20	16JUN08	14JUL08	-131
WB4060	Agency Review/Approve Draft Western Boundary DD	65*	65*	15JUL08	15OCT08	-131
WB4080	Prepare/Submit Final Western Boundary DD	20	20	16OCT08	13NOV08	-131
WB4090	EPA Issue Western Boundary DD	15	15	14NOV08	05DEC08	-131
WB4220	Prepare/Submit Draft Western Boundary LTM Plan	45	45	08DEC08	10FEB09	-131
WB4300	Agency Review/Approve Draft Western Bnd LTM Plan	55*	55*	11FEB09	29APR09	-131
WB4320	Prepare/Submit Final Western Boundary LTM Plan	20	20	30APR09	28MAY09	-131
Demo 2						
01574	Prepare/Submit Draft Demo 2 RI/FS Rpt	268*	119*	30MAR07A	21APR08	-154
01578	Agency Review/Approve Draft Demo 2 RI/FS Rpt	65*	65*	22APR08	23JUL08	-154
01579	Prepare/Submit Final Demo 2 RI/FS Rpt	20	20	24JUL08	20AUG08	-154
01608	Prepare/Submit Draft Demo 2 RSP	30	30	21AUG08	02OCT08	-154
01609	Agency Review/Approve Draft Demo 2 RSP	55*	55*	03OCT08	23DEC08	-154
01611	Prepare/Submit Final Demo 2 RSP	20	20	24DEC08	22JAN09	-154
01613	Formal Public Comment Demo 2 RSP	30	30	23JAN09	22FEB09	-218
01615	Prepare/Submit Draft Demo 2 DD	20	20	23FEB09	20MAR09	-153
01623	Agency Review/Approve Demo 2 DD	65*	65*	23MAR09	22JUN09	-153
01624	Prepare/Submit Final Demo 2 DD	20	20	23JUN09	21JUL09	-153
01625	EPA Issue Demo 2 DD	15	15	22JUL09	11AUG09	-153
2D0100	Prepare/Submit Draft Demo 2 LTM Plan	45	45	12AUG09	15OCT09	-153
2D0110	Agency Review/Approve Draft Demo 2 LTM Plan	55*	55*	16OCT09	06JAN10	-153
2D0120	Prepare/Submit Final Demo 2 LTM Plan	20	20	07JAN10	03FEB10	-153
Gun & Mortar						
00606	Prepare/Submit Draft G&M Investigation Workplan	296*	0*	08DEC05A	09FEB07A	0
00608	Agency Review/Approve Draft G&M Invest Workplan	207*	25*	12FEB07A	06DEC07	-103
00619	Prepare Final G&M Investigation Workplan	20	20	07DEC07	07JAN08	-103
CL2116	Conduct G&M Investigation	269*	111*	19MAR07A	09APR08	-156



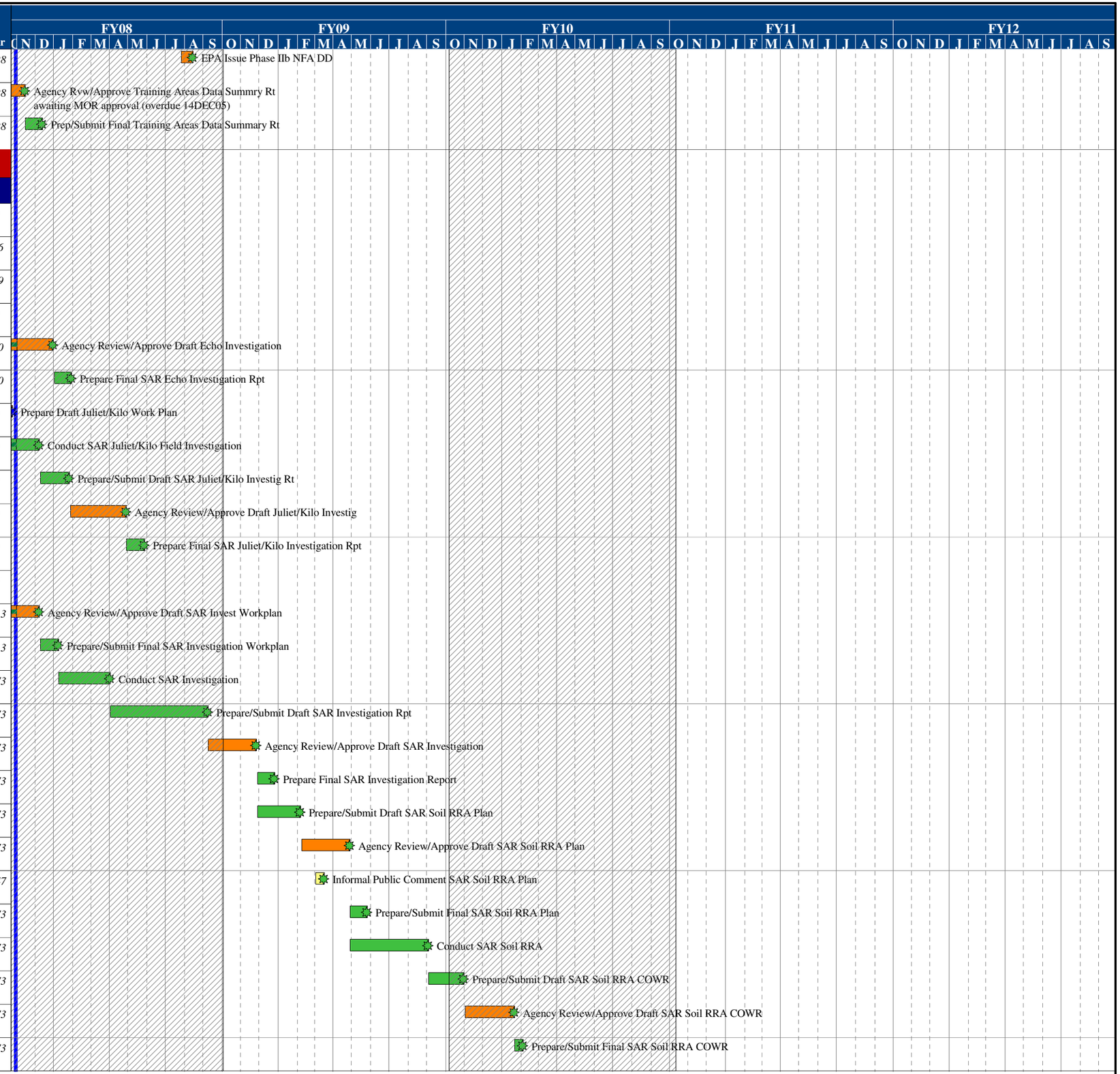
Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
00601	Prepare Draft Investigation Report	130	130	10APR08	14OCT08	-176
CL1760	Prepare/Submit Draft G&M Soil RRA Plan	61	61	15OCT08	13JAN09	-217
CL1840	Agency Review/Approve Draft G&M Soil RRA Plan	65*	65*	14JAN09	15APR09	-217
CL1845	Informal Public Comment G&M Soil RRA Plan	15	15	19FEB09	05MAR09	-307
CL1860	Prepare/Submit Final G&M Soil RRA Plan	20	20	16APR09	13MAY09	-217
00571	Conduct G&M Soil RRA	132	132	30APR09	05NOV09	-217
CL1900	Prepare/Submit Draft G&M Soil COWR	60	60	06NOV09	03FEB10	-217
CL1990	Agency Review/Approve Draft G&M Soil COWR	55*	55*	04FEB10	22APR10	-217
CL2000	Prepare/Submit G&M Final Soil COWR	20	20	23APR10	20MAY10	-217
00555	Prep/Submt Revised Draft G&M Investigation Rpt	110	110	06NOV09	15APR10	-217
00557	Agency Review/Approve Draft G&M Investig Rpt	65*	65*	16APR10	19JUL10	-217
00560	Prepare Final G&M Investigation Report	20	20	20JUL10	16AUG10	-217
CL2230	Prepare/Submit Draft G&M DD	20	20	17AUG10	14SEP10	-217
CL2280	Agency Review/Approve Draft G&M DD	65*	65*	15SEP10	17DEC10	-217
CL2310	Prepare/Submit Final G&M DD	20	20	20DEC10	18JAN11	-217
CL2320	EPA Issue G&M DD	15	15	19JAN11	08FEB11	-217
Former A Range						
U1600	Prep/Submit Draft Former A UXO Source Assess WP	30	30	17MAR08	25APR08	0
U1610	Agency Rev/Appr Draft Fmr A UXO Source Assess.WP	65	65	28APR08	29JUL08	0
U1620	Prep/Submit Final Former A UXO Source Assess WP	20	20	30JUL08	26AUG08	0
U1630	Incorporate Former A UXO Source Assess Work Plan	30	30	27AUG08	08OCT08	0
01586	Prepare/Submit Draft Former A RI/FS Rpt	448	52	09MAR06A	08OCT08	-226
01588	Agency Review/Approve Former A RI/FS Rpt	65	65	09OCT08	14JAN09	-226
01562	Prepare/Submit Final Former A RI/FS Rpt	20	20	15JAN09	11FEB09	-226
FA0400	Prepare/Submit Draft Former A RSP	15	15	12FEB09	05MAR09	-226
FA0410	Agency Review/Approve Draft Former A RSP	55	55	06MAR09	21MAY09	-226
FA0420	Prepare/Submit Final Former A RSP	10	10	22MAY09	05JUN09	-226
FA0430	Formal Public Comment Former A RSP	30	30	06JUN09	06JUL09	-318
FA0500	Prepare/Submit Draft Former A DD	20	20	07JUL09	03AUG09	-224
FA0510	Agency Review/Approve Draft Former A DD	65	65	04AUG09	04NOV09	-224



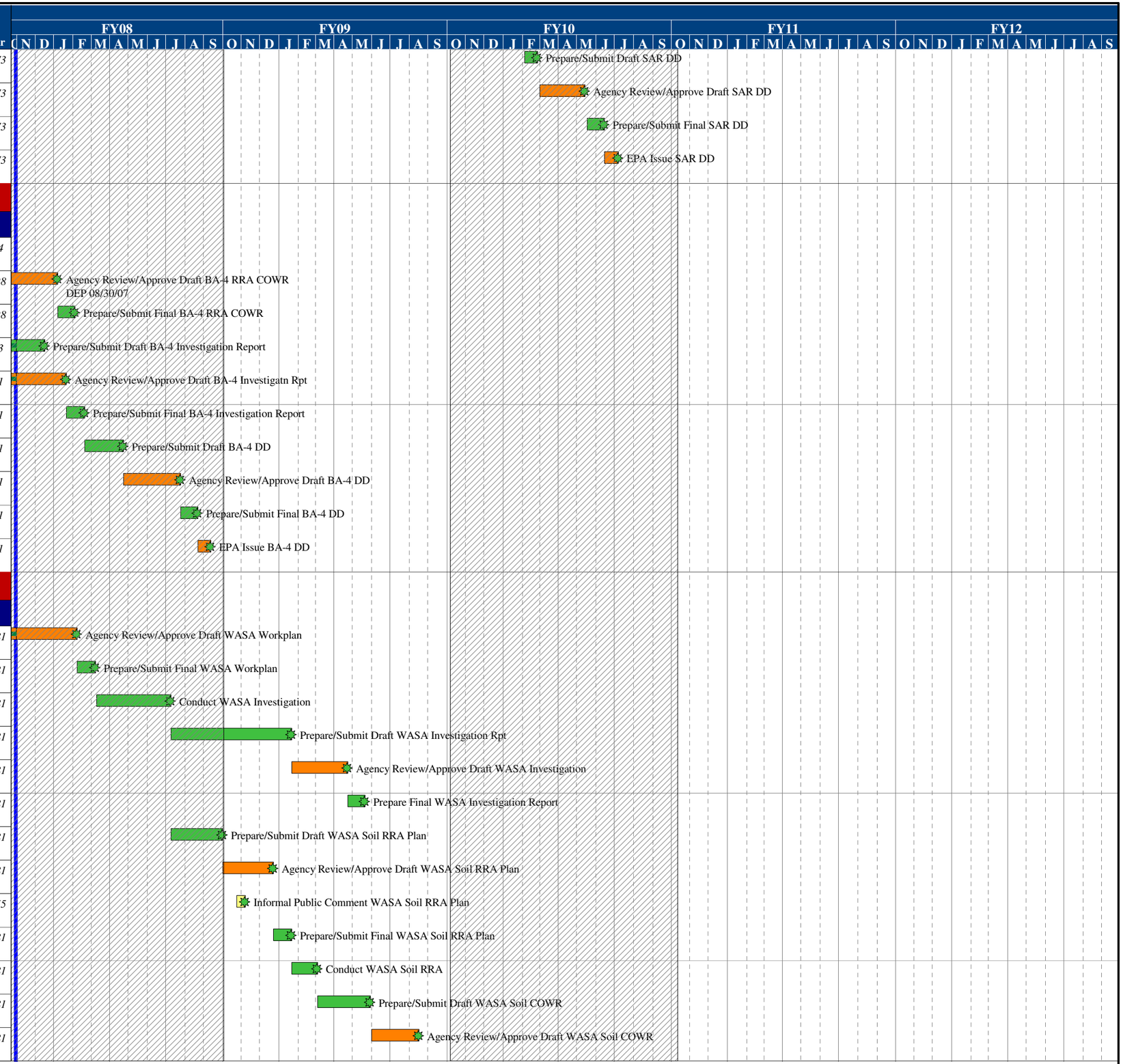
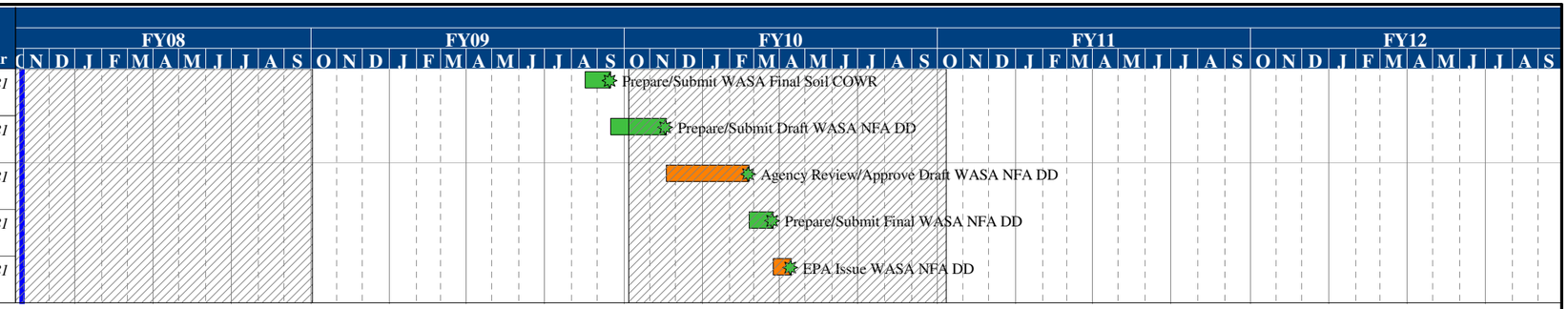
Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
FA0530	Prepare/Submit Final Former A DD	20	20	05NOV09	04DEC09	-224
FA0540	EPA Issue Former A DD	15	15	07DEC09	28DEC09	-224
FA0550	Prepare/Submit Draft Former A LTM Plan	45	45	29DEC09	03MAR10	-224
FA0560	Agency Review/Approve Draft Former A LTM Plan	55	55	04MAR10	19MAY10	-224
FA0570	Prepare/Submit Final Former A LTM Plan	20	20	20MAY10	17JUN10	-224
Former K Range						
01510	Agency Review/Approve Former K RI Report	506*	6*	04NOV05A	07NOV07	-114
U1700	Prep/Submit Draft Former K UXO Source Assess WP	30	30	17MAR08	25APR08	0
U1710	Agency Rev/Appr Draft Fmr K UXO Source Assess WP	65	65	28APR08	29JUL08	0
U1720	Prepare/Submit Final Fmr K UXO Source Assess WP	20	20	30JUL08	26AUG08	0
U1730	Implement Former K UXO Source Assess Work Plan	60	60	27AUG08	21NOV08	0
K01572	Prepare/Submit Draft Final Former K RI Report	88	88	18JUL08	21NOV08	-201
K01573	Agency Review/Approve Dr Final Former K RI Rpt	65	65	24NOV08	26FEB09	-201
K01574	Prepare/Submit Final Former K RI Report	20	20	27FEB09	26MAR09	-201
FK0500	Prepare/Submit Draft Former K DD	20	20	27MAR09	23APR09	-201
FK0510	Agency Review/Approve Draft Former K DD	65	65	24APR09	27JUL09	-201
FK0520	Formal Public Comment Former K DD	30	30	08MAY09	07JUN09	-283
FK0530	Prepare/Submit Final Former K DD	20	20	28JUL09	24AUG09	-201
FK0540	EPA Issue Former K DD	15	15	25AUG09	15SEP09	-201
FK0550	Prepare/Submit Draft Former K LTM Plan	45	45	16SEP09	19NOV09	-201
FK0560	Agency Review/Approve Draft Former K LTM Plan	55	55	20NOV09	09FEB10	-201
FK0570	Prepare/Submit Final Former K LTM Plan	20	20	10FEB10	10MAR10	-201
Phase II b and Training Areas						
01560	Agency Review/Approve Draft IIb Investig. Report	1,209*	36*	01APR03A	21DEC07	-128
2B1140	Prepare/Submit Final Phase IIb Investigation Rpt	20	20	24DEC07	22JAN08	-128
2B0200	Prepare/Submit Draft Phase IIb NFA DD	45	45	23JAN08	26MAR08	-128
2B0201	Agency Review/Approve Draft Phase IIb NFA DD	65	65	27MAR08	26JUN08	-128
2B0202	Formal Public Comment Phase IIb NFA DD	30	30	10APR08	09MAY08	-182
2B0203	Prepare/Submit Final Phase IIb NFA DD	20	20	27JUN08	25JUL08	-128



Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
2B0204	EPA Issue Phase IIb NFA DD	15	15	28JUL08	15AUG08	-128
00890	Agency Rvw/Approve Training Areas Data Summry Rt	254	10	15FEB05A	14NOV07	-128
00891	Prep/Submit Final Training Areas Data Summary Rt	20	20	15NOV07	13DEC07	-128
Small Arms Range						
016900	Prepare/Submit Draft SAR Tango Investigation Rpt	56*	0*	10OCT06A	14DEC06A	0
016901	Agency Rvw/Appr Draft Final SAR Tango Invstig Rt	200*	0*	15DEC06A	17JUL07A	-26
016903	Prepare/Submit Final SAR Tango Investigation Rpt	5	0	18JUL07A	27JUL07A	-29
SAR6000	Pre/Submit Draft SAR Echo Investigation Rpt	166*	0*	14DEC06A	29JUN07A	0
SAR6080	Agency Review/Approve Draft Echo Investigation	125*	41*	02JUL07A	31DEC07	-70
SAR6090	Prepare Final SAR Echo Investigation Rpt	20	20	02JAN08	29JAN08	-70
SAR7010	Prepare Draft Juliet/Kilo Work Plan	34*	0*	12SEP07A	25OCT07A	0
SAR7020	Conduct SAR Juliet/Kilo Field Investigation	50*	26*	26SEP07A	07DEC07	0
SAR7030	Prepare/Submit Draft SAR Juliet/Kilo Investig Rt	33	33	10DEC07	25JAN08	0
SAR7040	Agency Review/Approve Draft Juliet/Kilo Investig	65	65	28JAN08	28APR08	0
SAR7050	Prepare Final SAR Juliet/Kilo Investigation Rpt	20	20	29APR08	27MAY08	0
01723	Resubmit Draft SAR Investigation Workplan	0	0		13MAR07A	-1
01725	Agency Review/Approve Draft SAR Invest Workplan	187*	26*	14MAR07A	07DEC07	-113
01727	Prepare/Submit Final SAR Investigation Workplan	20	20	10DEC07	08JAN08	-113
01597	Conduct SAR Investigation	60	60	09JAN08	02APR08	-173
SAR1900	Prepare/Submit Draft SAR Investigation Rpt	110	110	03APR08	08SEP08	-173
SAR1910	Agency Review/Approve Draft SAR Investigation	55*	55*	09SEP08	26NOV08	-173
SAR1920	Prepare Final SAR Investigation Report	20	20	28NOV08	26DEC08	-173
01800	Prepare/Submit Draft SAR Soil RRA Plan	49	49	28NOV08	06FEB09	-173
01804	Agency Review/Approve Draft SAR Soil RRA Plan	55	55	09FEB09	27APR09	-173
SAR01805	Informal Public Comment SAR Soil RRA Plan	15	15	03MAR09	17MAR09	-247
01898	Prepare/Submit Final SAR Soil RRA Plan	20	20	28APR09	26MAY09	-173
01900	Conduct SAR Soil RRA	90	90	28APR09	02SEP09	-173
01812	Prepare/Submit Draft SAR Soil RRA COWR	40	40	03SEP09	30OCT09	-173
01816	Agency Review/Approve Draft SAR Soil RRA COWR	55	55	02NOV09	21JAN10	-173
01899	Prepare/Submit Final SAR Soil RRA COWR	10	10	22JAN10	04FEB10	-173



Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
SAR2000	Prepare/Submit Draft SAR DD	15	15	05FEB10	26FEB10	-173
SAR2040	Agency Review/Approve Draft SAR DD	55*	55*	01MAR10	14MAY10	-173
SAR2060	Prepare/Submit Final SAR DD	20	20	17MAY10	14JUN10	-173
SAR2070	EPA Issue SAR DD	15	15	15JUN10	06JUL10	-173
BA-4 Disposal Site						
00905	Prepare/Submit Draft BA-4 RRA COWR	165*	0*	26DEC06A	17AUG07A	-44
00907	Agency Review/Approve Draft BA-4 RRA COWR	55	45	20AUG07A	07JAN08	-128
00913	Prepare/Submit Final BA-4 RRA COWR	20	20	08JAN08	04FEB08	-128
AS1000	Prepare/Submit Draft BA-4 Investigation Report	95*	32*	01AUG07A	17DEC07	-53
AS1080	Agency Review/Approve Draft BA-4 Investigatn Rpt	77*	55*	28SEP07A	21JAN08	-21
AS1100	Prepare/Submit Final BA-4 Investigation Report	20	20	22JAN08	19FEB08	-21
AS1110	Prepare/Submit Draft BA-4 DD	45	45	20FEB08	22APR08	-21
AS1200	Agency Review/Approve Draft BA-4 DD	65*	65*	23APR08	24JUL08	-21
AS1220	Prepare/Submit Final BA-4 DD	20	20	25JUL08	21AUG08	-21
AS1230	EPA Issue BA-4 DD	15	15	22AUG08	12SEP08	-21
Wide Area Source Assessment						
02806	Agency Review/Approve Draft WASA Workplan	648*	68*	13JUL05A	07FEB08	-181
TC00815	Prepare/Submit Final WASA Workplan	20	20	08FEB08	07MAR08	-181
WA0002	Conduct WASA Investigation	85	85	10MAR08	08JUL08	-181
WA0004	Prepare/Submit Draft WASA Investigation Rpt	135	135	09JUL08	21JAN09	-181
WA0006	Agency Review/Approve Draft WASA Investigation	65	65	22JAN09	23APR09	-181
WA0008	Prepare Final WASA Investigation Report	20	20	24APR09	21MAY09	-181
WA0000	Prepare/Submit Draft WASA Soil RRA Plan	60	60	09JUL08	01OCT08	-181
WA0010	Agency Review/Approve Draft WASA Soil RRA Plan	55	55	02OCT08	22DEC08	-181
WA0020	Informal Public Comment WASA Soil RRA Plan	15	15	24OCT08	07NOV08	-255
WA0030	Prepare/Submit Final WASA Soil RRA Plan	20	20	23DEC08	21JAN09	-181
WA0040	Conduct WASA Soil RRA	30	30	22JAN09	05MAR09	-181
WA0050	Prepare/Submit Draft WASA Soil COWR	60	60	06MAR09	29MAY09	-181
WA0060	Agency Review/Approve Draft WASA Soil COWR	55	55	01JUN09	17AUG09	-181



Activity ID	Activity Description	Orig Dur	Rem Dur	Anticipated /Actual Start	Anticipated /Actual Finish	Var
WA0070	Prepare/Submit WASA Final Soil COWR	20	20	18AUG09	15SEP09	*-181*
WA0080	Prepare/Submit Draft WASA NFA DD	45	45	16SEP09	19NOV09	*-181*
WA0090	Agency Review/Approve Draft WASA NFA DD	65	65	20NOV09	24FEB10	*-181*
WA0110	Prepare/Submit Final WASA NFA DD	20	20	25FEB10	24MAR10	*-181*
WA0120	EPA Issue WASA NFA DD	15	15	25MAR10	14APR10	*-181*