APPENDIX D1

Water Resources Maps

XCEL ENERGY ELM CREEK SUBSTATION

WR1

WR2

HENNEPIN SUBSTATION

WR3

WR4

WR5

WR6

ARBOR LAKE SUBSTATION

CEDAR ISLAND SUBSTATION

WR7

BASS LAKE SUBSTATION

WR8

WR9

PLYMOUTH SUBSTATION

WR10

WR11

WR12

WR13

XCEL ENERGY PARKERS LAKE SUBSTATION

94 130 109 81 10 494 61 169 9 55 6

Legend

- GRE Energy Distribution Substation
- Xcel Energy Substation
- Map Sheet
- Proposed Route

Roads (MN DOT)

- US Interstate
- US Highway
- State Highway
- County State-Aid Highway
- County Road
- Municipal State-Aid Street
- Municipal Street

N

0 0.25 0.5 1 1.5 2 Miles

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Plymouth -Maple Grove Project

Water Resources Index Map

Prepared by:

Houston Engineering, Inc.

Hydrologic Features WR1

- DNR Minor Watershed
- 300 Foot Stream Buffer
- 1000 Foot Lake Buffer

FEMA Floodway

- 500-Year Flood
- 100-Year Flood

- NWI Wetland
- DNR Lake (>1 acre)
- DNR Stream (Perennial)
- Stream DNR (Intermittent)

N

0 125 250 500 750 1,000 Feet

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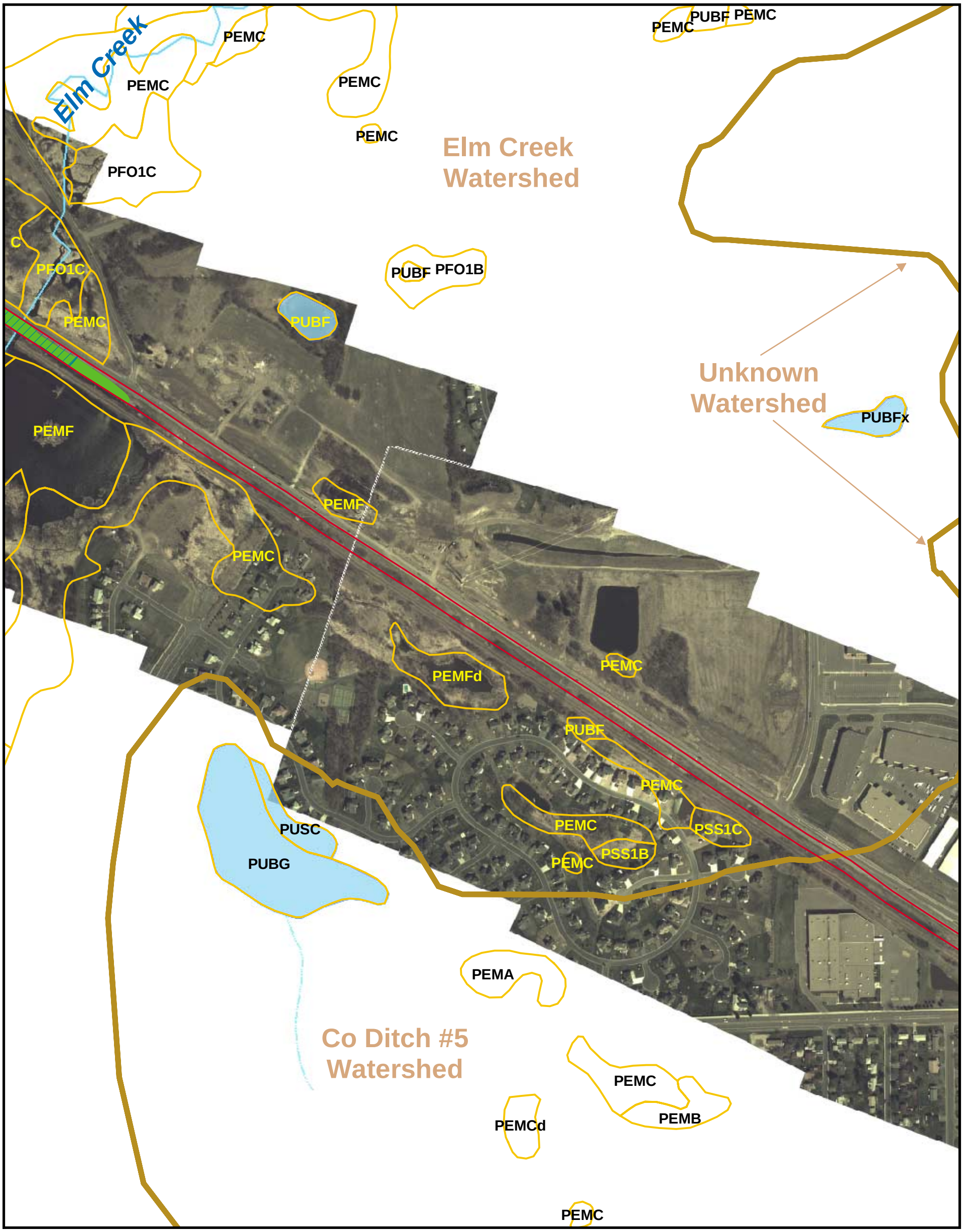

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR2

N

0 125 250 500 750 1,000 Feet

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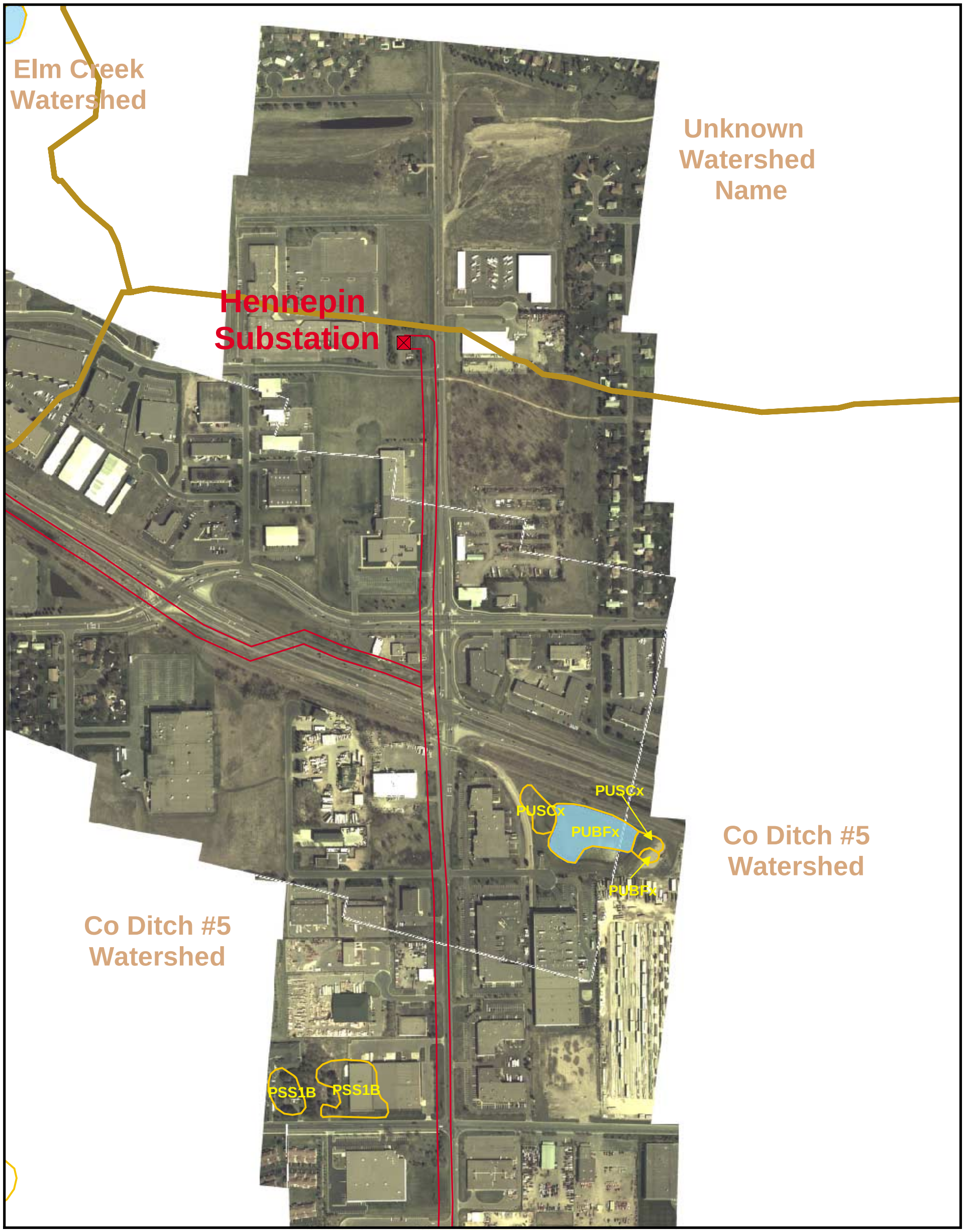

DNR Minor Watershed
300 Foot Stream Buffer
1000 Foot Lake Buffer
FEMA Floodway
500-Year Flood
100-Year Flood
NWI Wetland
DNR Lake (>1 acre)
DNR Stream (Perennial)
Stream DNR (Intermittent)

Hydrologic Features WR3

N

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0 125 250 500 750 1,000 Feet

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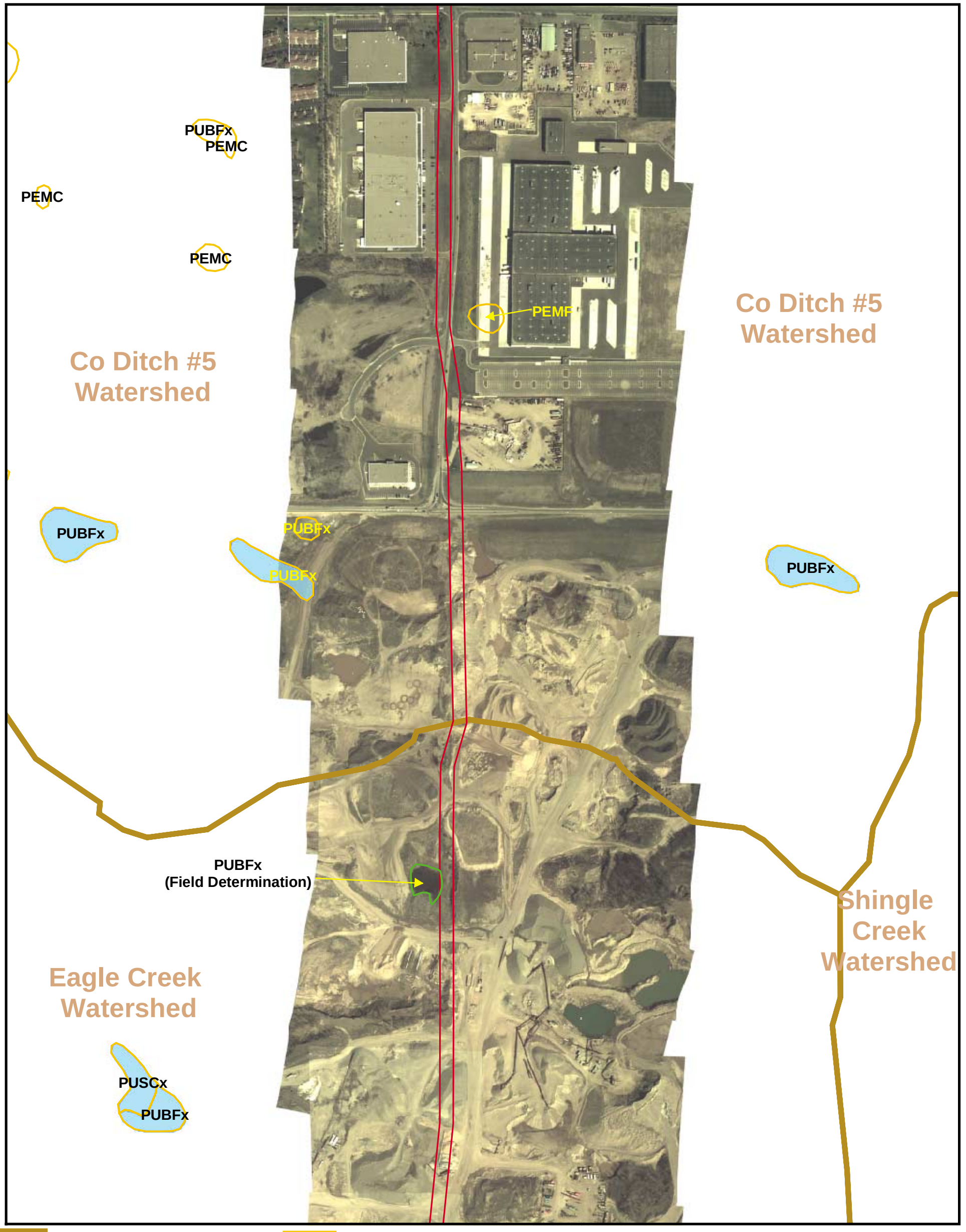

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features
WR4

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N

0 125 250 500 750 1,000 Feet

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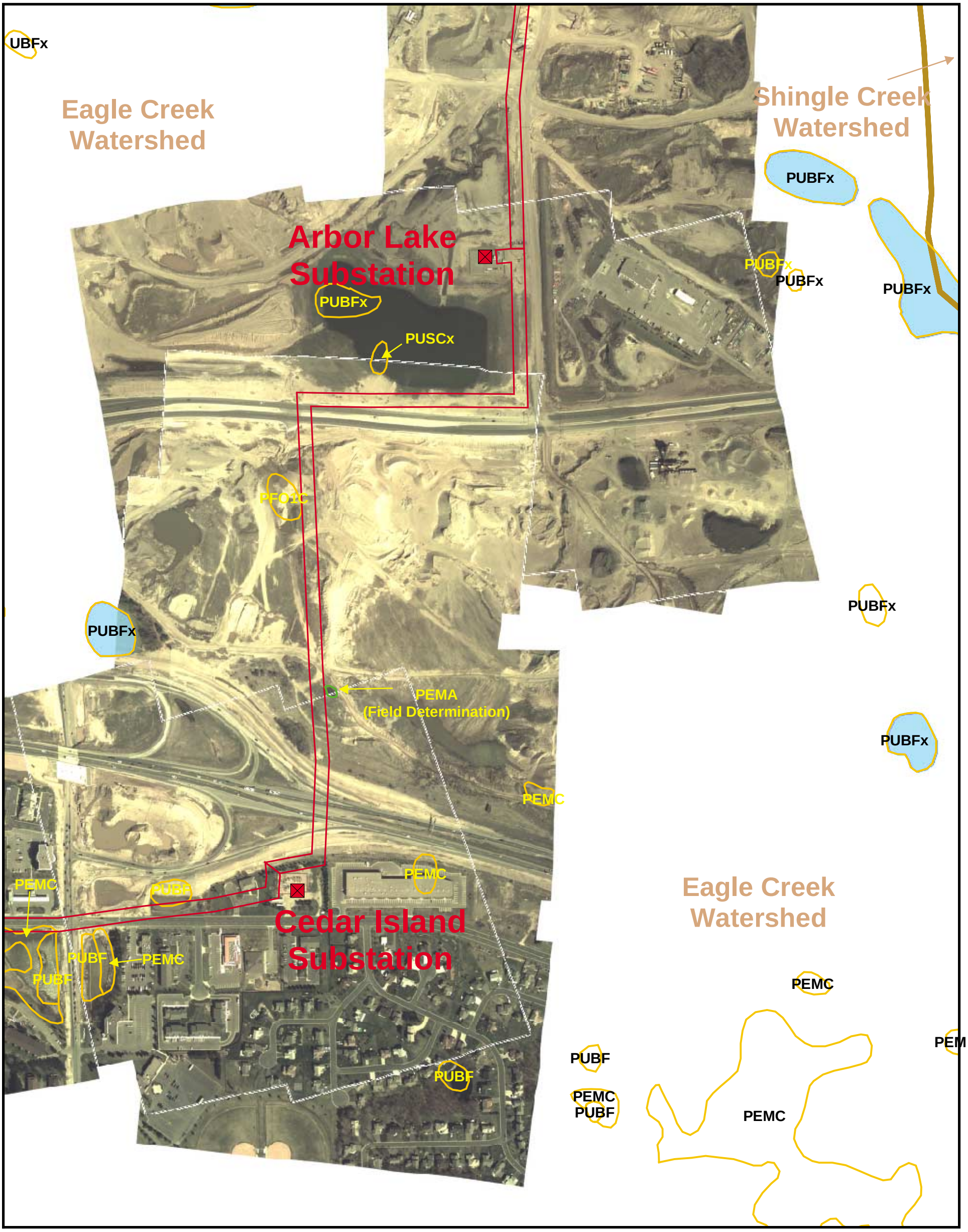

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR5

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N

0 125 250 500 750 1,000 Feet

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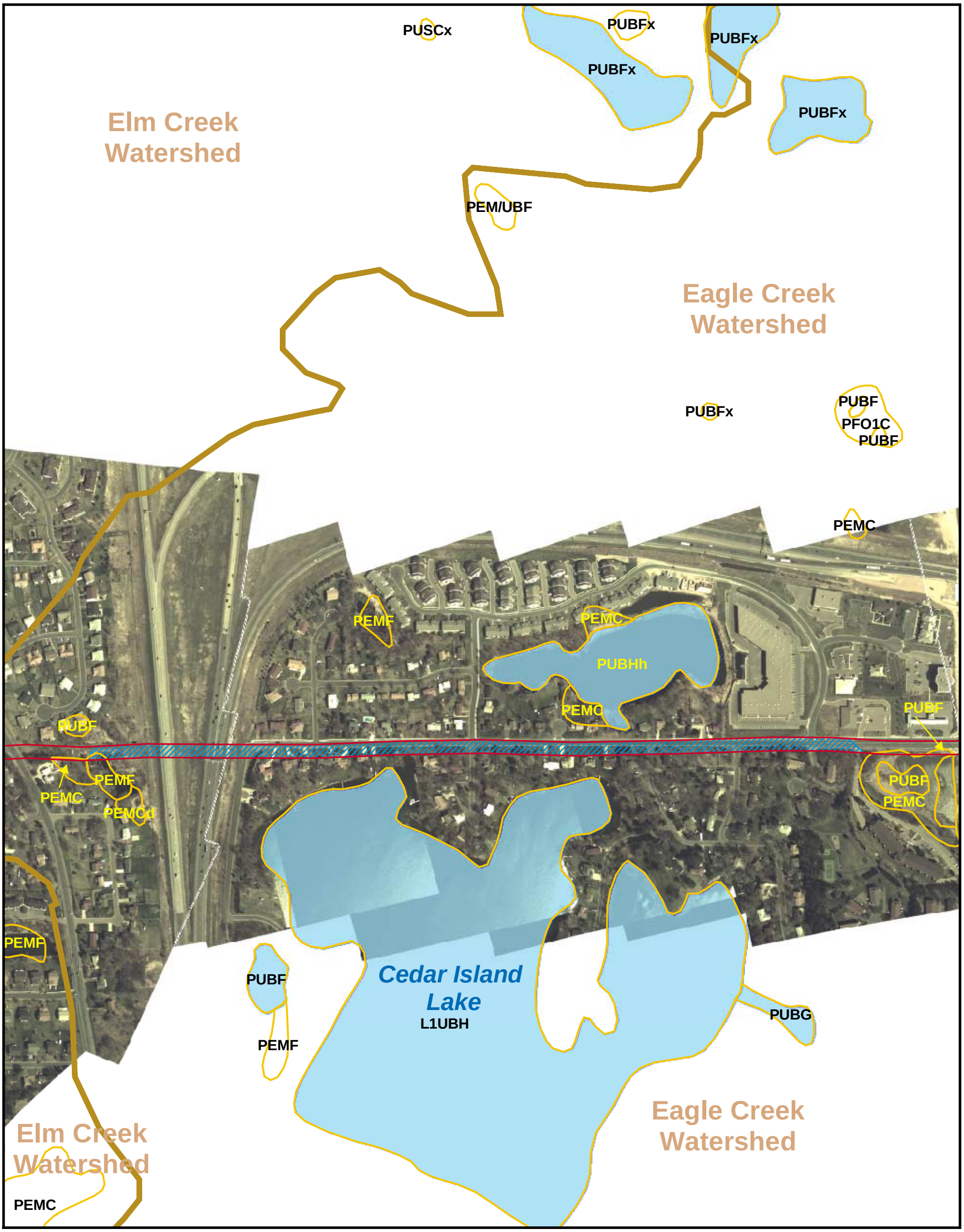

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR6

N

0 125 250 500 750 1,000 Feet

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Elm Creek Watershed

Fish Lake

Eagle Creek Watershed

EMF

PEMC

PUBGx

PEMFd

PEMF

PEMAd

PEMFd

PFO1B

PEMCd

PEMF

PUBF

PEMF

PEMCd

SS1/EMC

PEMC

PEMC

Unnamed Stream

PSS1C

PEMC

PEMF

PSS1C

PEMC

PEMC

Bass Lake Substation

PEMC

PEMF

PUBF

Elm Creek Watershed

PEMC

Edward Lake

PEM/UBF

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR7

N

0 125 250 500 750 1,000 Feet

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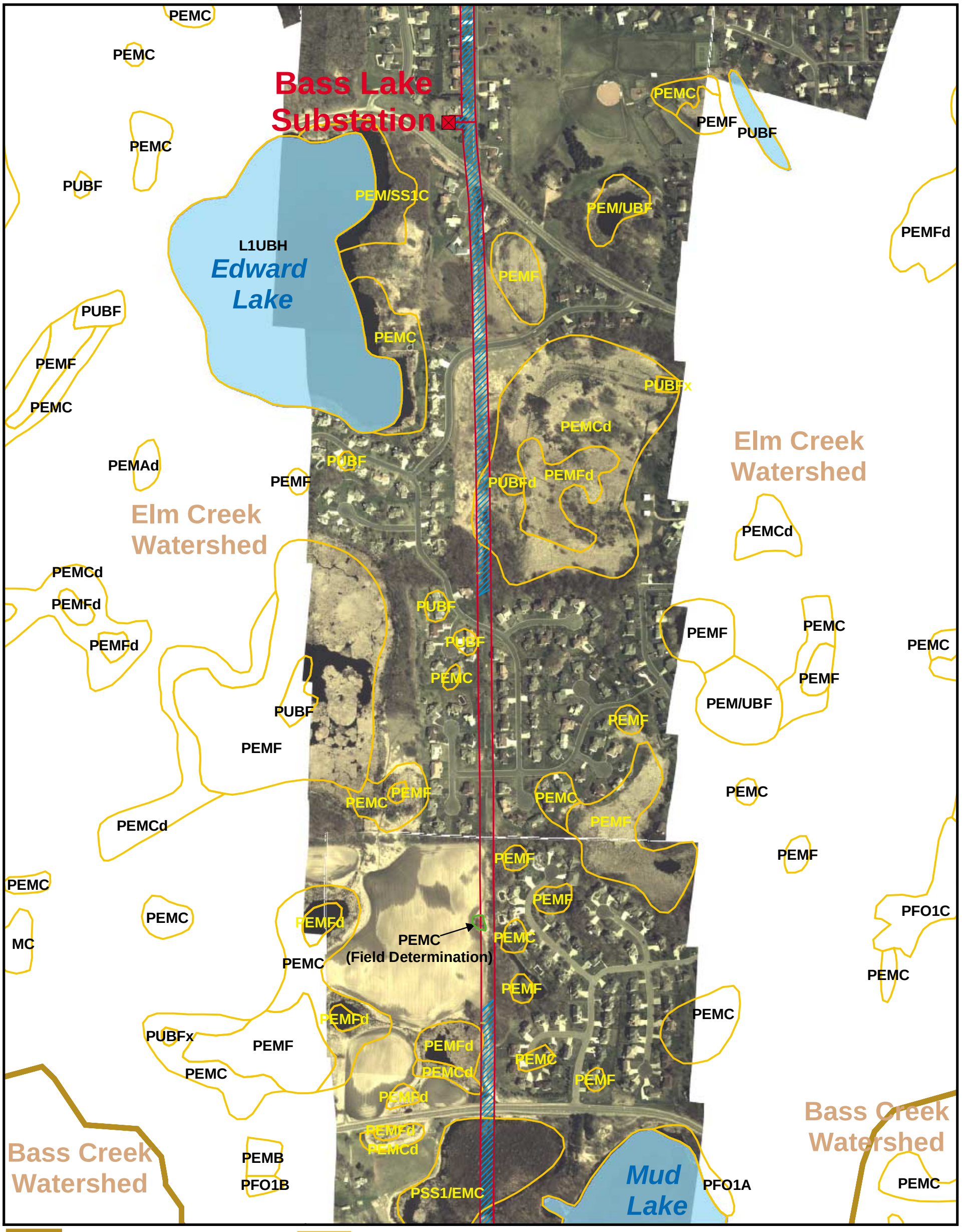

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR8

N

0 125 250 500 750 1,000 Feet

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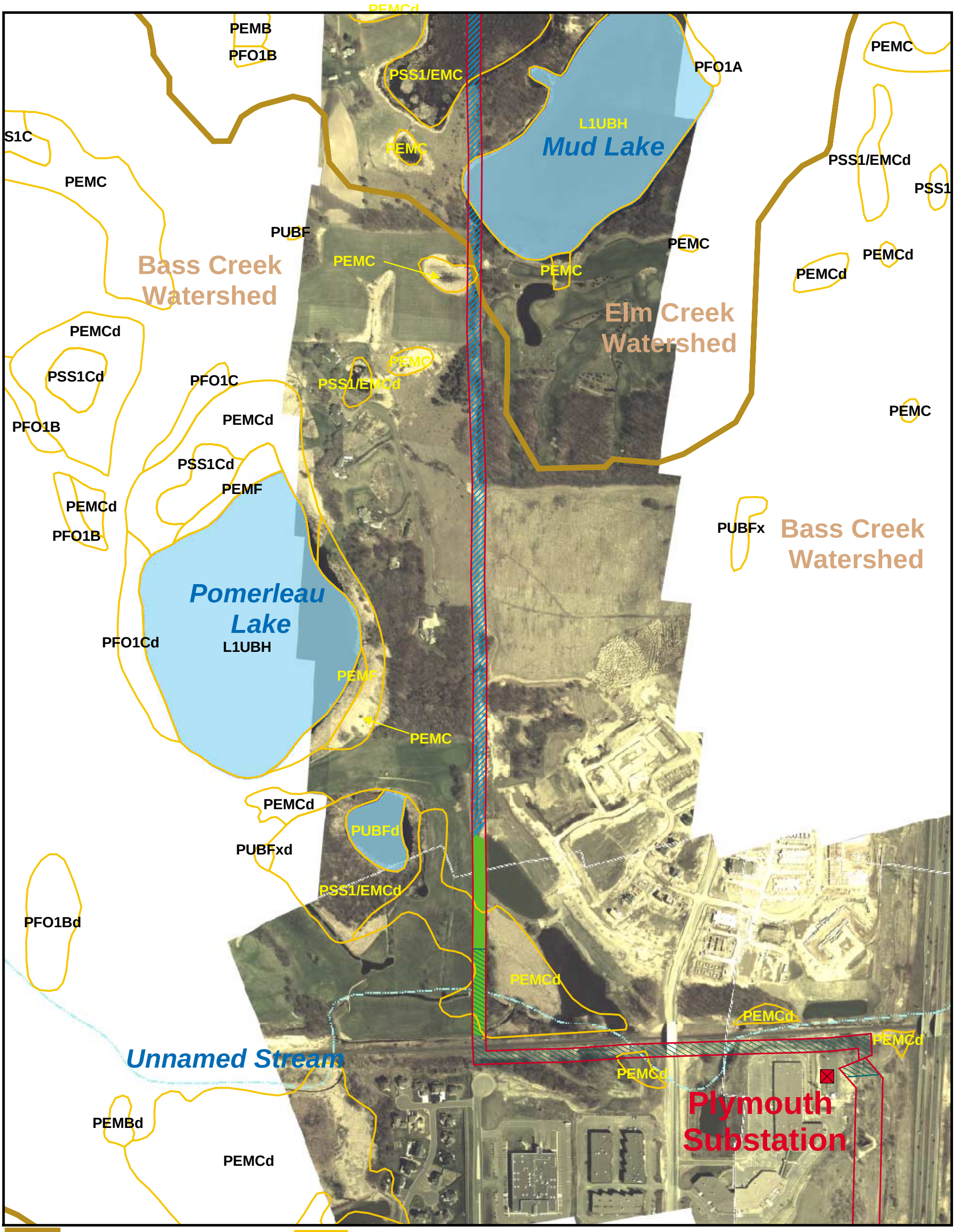

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR9

N

0 125 250 500 750 1,000 Feet

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DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR10

N

0 125 250 500 750 1,000 Feet

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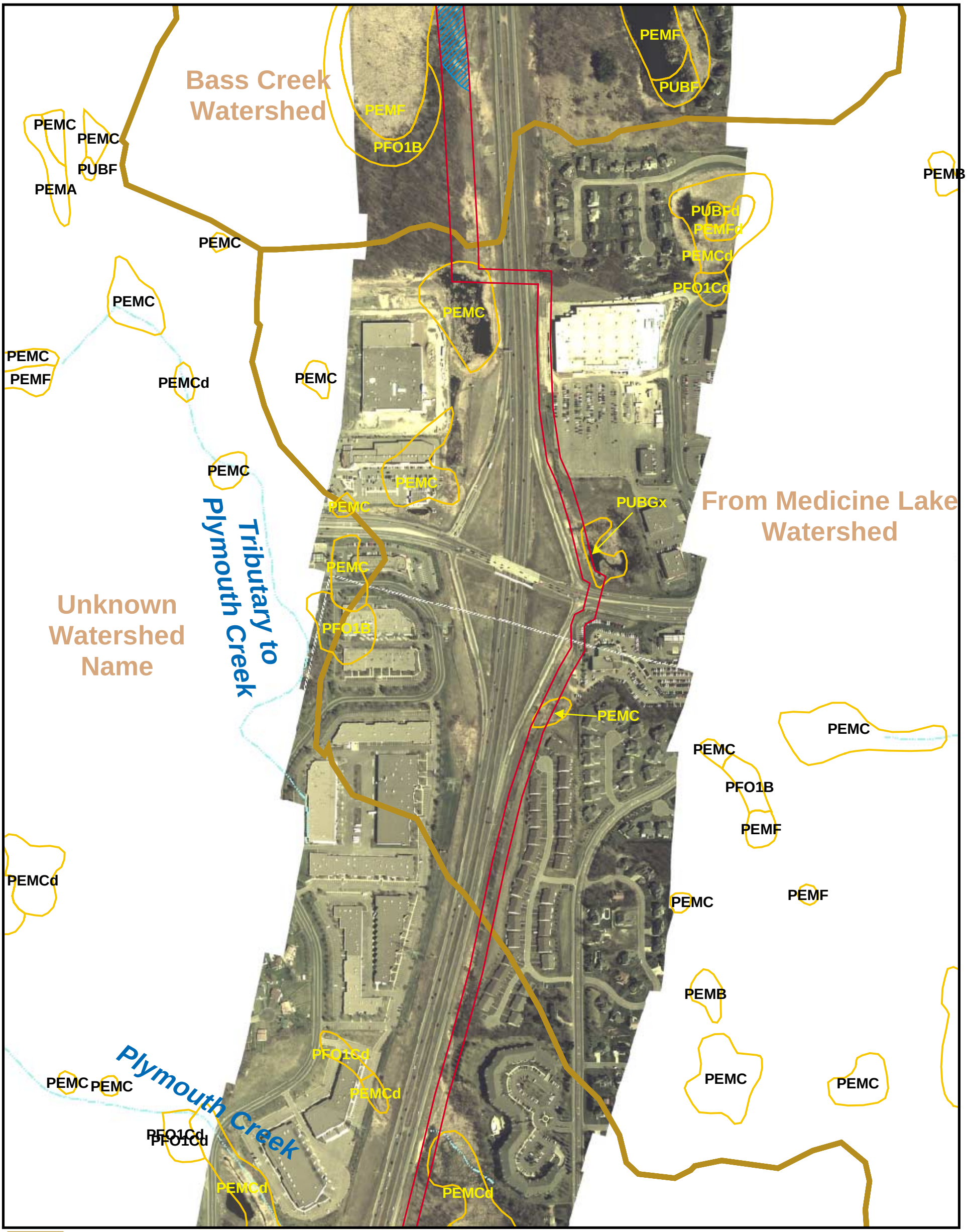

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR11

N

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0 125 250 500 750 1,000 Feet

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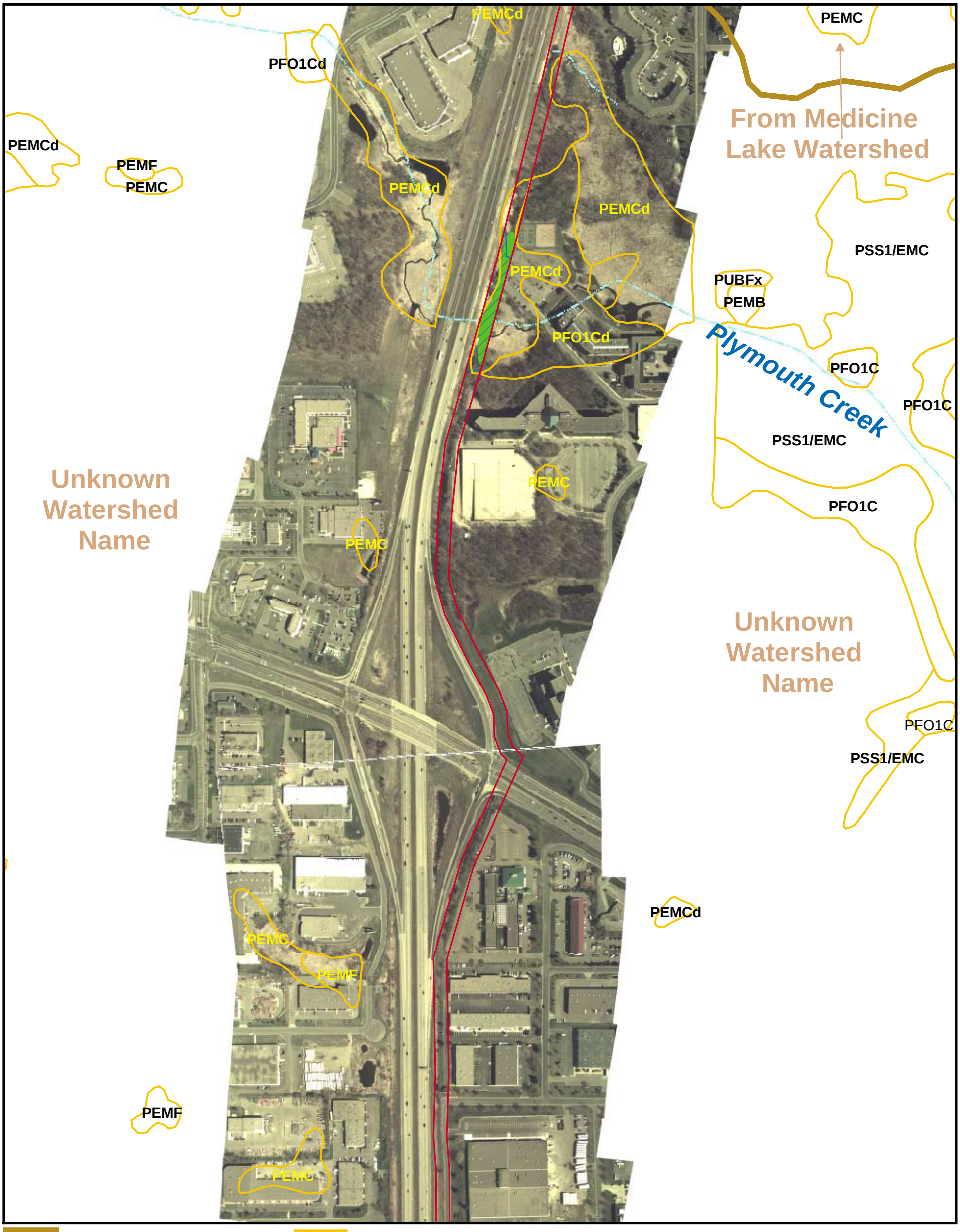

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR12

N

0 125 250 500 750 1,000 Feet

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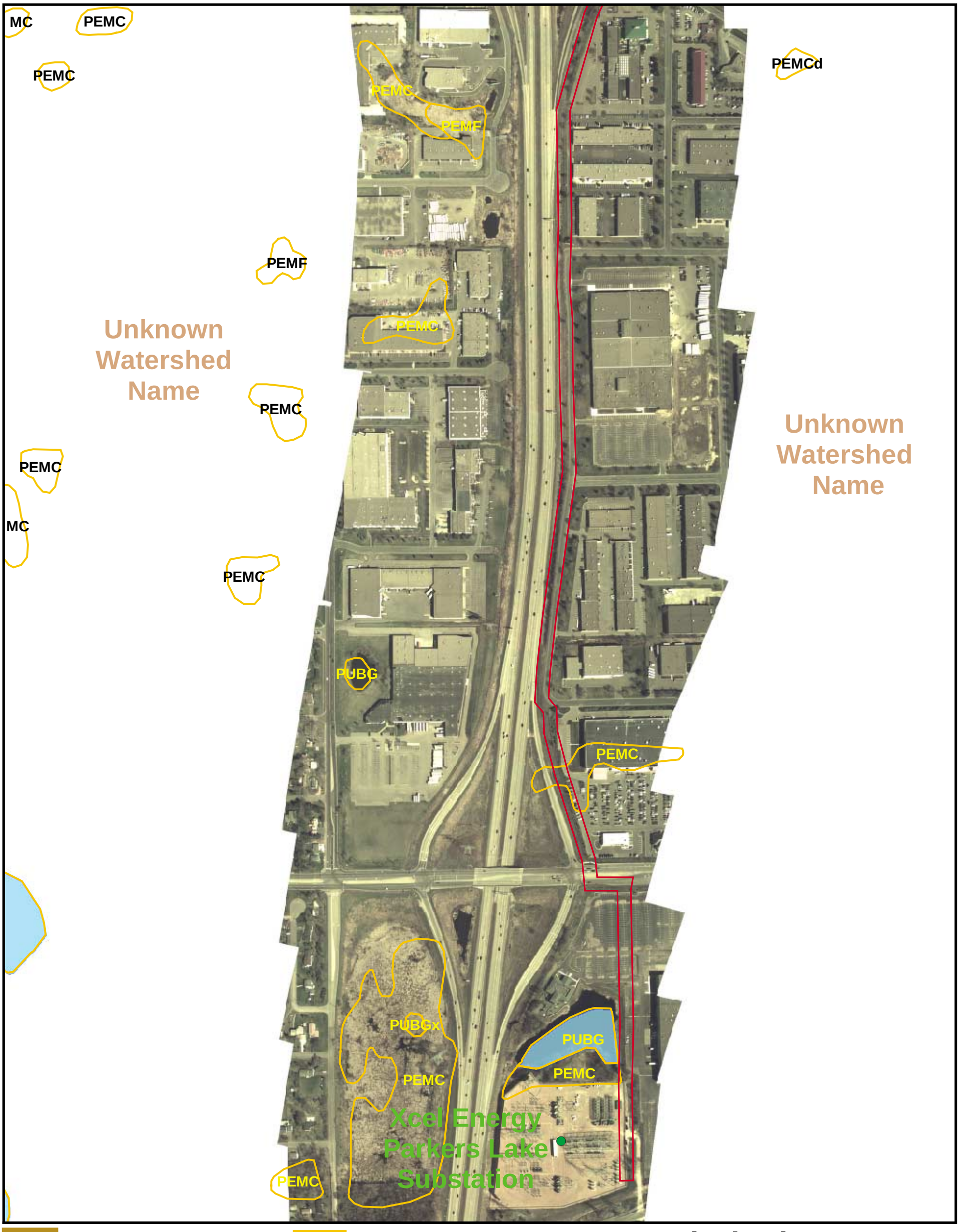

DNR Minor Watershed

300 Foot Stream Buffer

1000 Foot Lake Buffer

FEMA Floodway

500-Year Flood

100-Year Flood

NWI Wetland

DNR Lake (>1 acre)

DNR Stream (Perennial)

Stream DNR (Intermittent)

Hydrologic Features WR13

N

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0 125 250 500 750 1,000 Feet

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