US EPA RECORDS CENTER REGION 5
557428

EPA Region 5 Visit to REM Division August 7, 2019 – August 8, 2019

Representatives from EPA: Pat Hamblin, Denise Boone, Heriberto Leon, Tom Short

August 7 (Wednesday)	
Schedule	**Agenda Items**
8:00am – 8:15am Rm 637	Welcome Address • Reorganization & Introductions – Tom Higgins

8:15am – 10:30am
Rm 637
	EPA Items
	• General workflow
	• Allocation model
	• Overview of deliverables
	  o PA & SI
	• Subsurface Intrusion pathway
	  o VI assessment

Travel to St. Louis Park 10:30am – 11:00am	
11:00am – 12:00pm St. Louis Park	Site Visit: St. Louis Park • Attending: Tom Higgins, Dave Scheer, Jen Jevnisek, Jamie Wallerstedt, Kirk Koudelka, Kathy Sather, EPA Representatives
Lunch 12:00pm – 1:00pm	
1:00pm – 3:00pm St. Louis Park	Leadership Meeting with St. Louis Park • Attending: Kirk Koudelka, Kathy Sather, Crague Biglow (phone), Jamie Wallerstedt, EPA Representatives
Travel to SE Hennepin 3:00pm – 3:30pm	
3:30pm – 4:30pm SE Hennepin	Site Visit: SE Hennepin • Attending: Tom Higgins, Andri Dahlmeier, Tim Grape, Jamie Wallerstedt, EPA Representatives

August 8 (Thursday)	
Schedule	**Agenda Items**
8:00am – 8:30am Rm 637	St. Louis Park • Tom Higgins, Greg Small, Jamie Wallerstedt, Kirk Koudelka, Kathy Sather, Crague Biglow (phone), Dave Scheer, Jen Jevnisek, EPA Representatives
8:30am – 9:00am Rm 637	SE Hennepin • Attending: Tom Higgins, Greg Small, Jamie Wallerstedt, Kirk Koudelka, Andri Dahlmeier, Tim Grape, EPA Representatives
9:00am – 9:30am Rm 637	Northern Heights Rock Dump • Attending: Dave Morrison, Greg Small, Tom Higgins, Dorene Fier-Tucker, Kirk Koudelka, Lucie Amundsen (Skype), EPA Representatives
9:30am – 11:00am Rm 637	MPCA Items • Site Intake, SAST & Triage – Micah/Doree • SA Budget – Eric Pederson • MPCA PII overview - Greg • Federal Deliverables Tracking – Greg/Micah • Closed Sites Project for VI & GW (TCE) – Tim Grape

Highway 100 - County Road 3 Field Trip

Stop 1: Edina Well E7 - 5275 Sherwood Road, Edina MN 55436

- Municipal well cased to top of PDCJ 350' below ground surface (bgs). Completed open hole to top of St. Lawrence Formation 547' bgs.
- Shutdown in 2004 due to VC concentrations above MCL. Resumed operation in 2012.
- Highest chlorinated ethene concentrations: PCE ND, TCE 2.3, cis DCE 39, VC 4.1 concentrations in ppb
- Edina Well E2 located 0.85 miles to the northeast.
    - Cased to 266' bgs in PDC to Jordan 448' bgs.
    - Highest chlorinated ethene concentrations: PCE ND, TCE 0.8, cis DCE 23, VC 3.8 all in ppb.
- Edina Well E15 located 0.75 miles to northwest
    - Twenty inch casing to 275' bgs in PDC. Completed in Jordan at 475' bgs
    - Highest chlorinated ethene concentrations: PCE ND, TCE 2.1, cis DCE 8.3, VC 0.8
- Water Treatment Plant designed to remove VOCS in water from wells E2, E7 and E15 located 0.25 miles north

Stop 2: Edina Water treatment Plant – 5150 Brookside Avenue, Edina MN 55436

- MPCA paid for design of treatment system to remove VOCs.
- Opened in 2012
- Treats water for wells E2, E7, E15 and E9

Stop 3: Well SLP6 – 4231 Zarthan Avenue South, St. Louis Park, MN 55416

- Currently designated as an emergency backup well
- Highest chlorinated ethene concentrations: PCE ND, TCE 9.5, cis DCE 68, VC 10.0 ppb
- MPCA paid for design of treatment system to remove VOCs.

Stop 4: Well SLP4 - 4704 W 41st St , St Louis Park, MN 55416

- Water Treatment Plant SLP4 taken out of service January 2017 due to elevated chlorinated ethene concentrations
- MPCA paid for design of treatment system to remove VOCs.
- Treatment Plant returned to service Spring 2019
- Ying-Yang

Stop 5: Jorvig Park - 6209 W 37th St, St Louis Park, MN 55416

- Two vapor Intrusion mitigation systems installed on daycare facility located at 37th and Alabama
- Elmwood neighborhood homes tested for VI. 40 mitigation systems installed in homes located in the neighborhood
- St. Peter bedrock valley extends from SE to 37th and Brunswick
- Conduit for groundwater contamination in shallow drift aquifer to by-pass Glenwood Shale into the St. Peter Sandstone
- Boring transects advanced across park. GW analytical data indicates PCE extends through park to bedrock valley

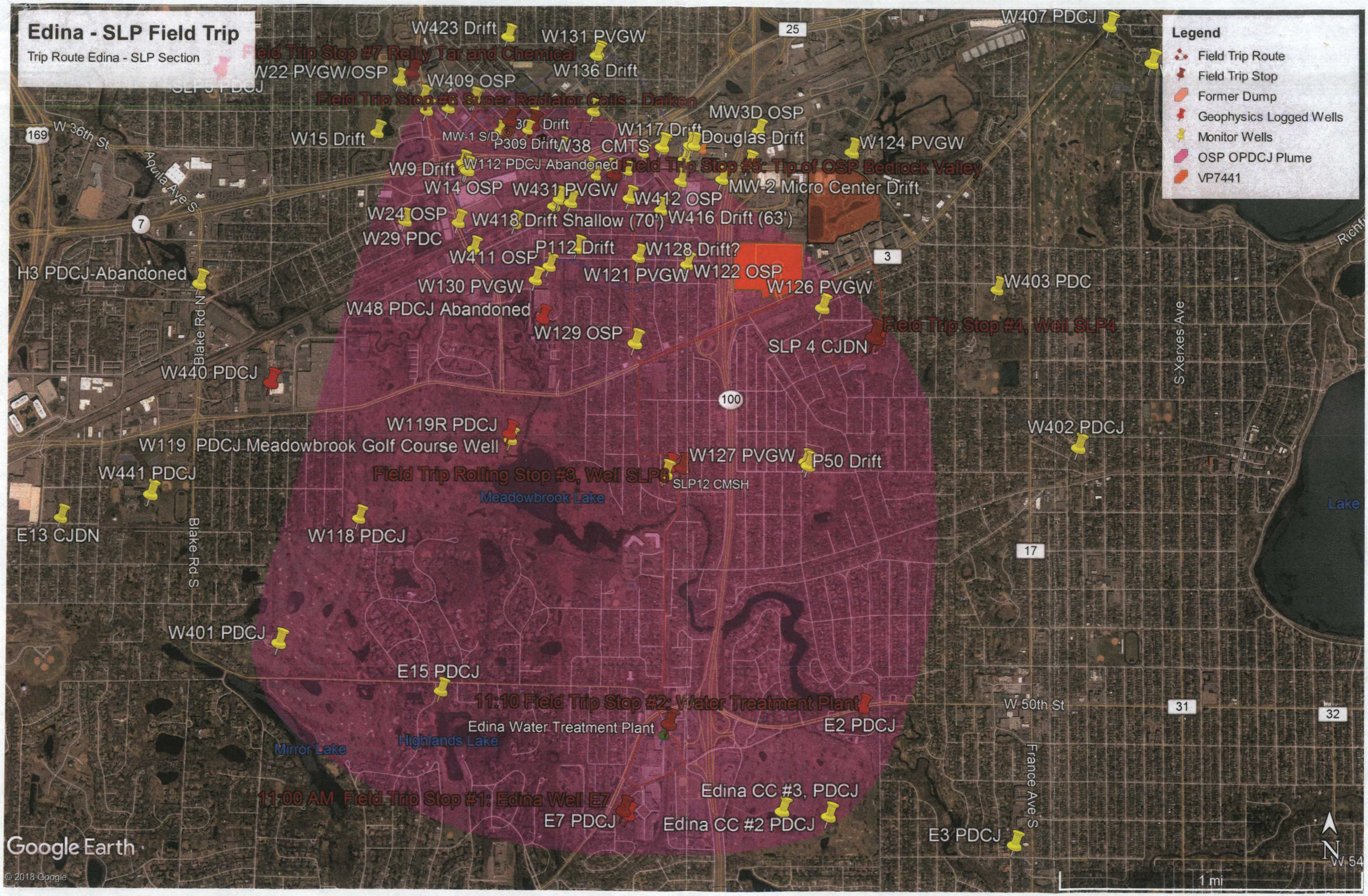
Stop 6: Potential Source Areas - 6700-6706 Walker St. St. Louis Park, MN 55426; Along the way: Community Center/Spanish Immersion School/Early Childhood Education, SLP High School - All tested for VI.

- Boring transects advanced along frontage road, along Masonic lodge, around buildings on Walker Street, along public parking lot and tire store parking lot
- PCE plume extends from Frontage road (4,300 ppb in B49), behind Masonic Lodge (B25: 4,300 ppb) , behind tire store (21,000 ppb in B41 and 12,000 ppb in B33).
- Comment from Gary Newhart (EPA REAC) sub-slab samples in the area show pure industrial grade PCE
- Care Cleaners – minor GW contamination but did have VI in adjacent buildings

- Former EPS Printing PCE detections in GW in front and behind building. Used PCE in press wash, mixture of PCE, toluene and other VOCs.
- Eclipse Electric – PCE concentrations in soil 35,000 ppb in sample collected 3' bgs near loading area. Concentrations in GW OOM lower.
- Super Radiator Coils – Daiken
    - 1000 gallon PCE AST located behind building
    - MW-1 45,000 ppb PCE
    - VAP3: 26,000ppb PCE
    - VAP8:
    - VAP9:
    - VAP12:
- SRC Tube-Fab Division Vapor mitigation installed in Marathon Building and Ryan Building (current tenant)
- MinnValco?

Stop 7: Reilly Tar and Chemical - 3400 Louisiana Ave S, St Louis Park, MN 55426

- Drive by Well W439 Drift containment well
- Wells W105 and W23, pump out wells – Leaking casing conduit for PAHs to enter deep aquifers. Wells reconstructed and used for source removal
- Wetland south of Walker Street received waste process water, sludge
- Platteville well W421 and Drift Well W420 located SE of Hwy 7 and Louisiana. Effluent treated at adjacent GAC Plant


Edina - SLP Field Trip
Trip Route Edina - SLP Section
Legend
Field Trip Route
Field Trip Stop
Former Dump
Geophysics Logged Wells
Monitor Wells
OSP OPDCJ Plume
VP7441
W423 Drift
W131 PVGW
W407 PDCJ
Field Trip Stop #7 Reilly Tar and Chemical
W22 PVGW/OSP
W409 OSP
W136 Drift
Field Trip Stop #6 Super Radiator Coils - Daiken
MW3D OSP
W15 Drift
MW-1 S/D
30' Drift
P309 Drift
W38 CMTS
W117 Drift
Douglas Drift
W124 PVGW
W9 Drift
W112 PDCJ Abandoned
Field Trip Stop #5: Tip of OSP Bedrock Valley
W14 OSP
W431 PVGW
W412 OSP
MW-2 Micro Center Drift
W24 OSP
W418 Drift Shallow (70')
W416 Drift (63')
W29 PDC
W411 OSP
P112 Drift
W128 Drift?
W121 PVGW
W122 OSP
H3 PDCJ-Abandoned
W130 PVGW
W126 PVGW
W403 PDC
W48 PDCJ Abandoned
Field Trip Stop #4, Well SLP4
W129 OSP
SLP 4 CJDN
W440 PDCJ
W119R PDCJ
W402 PDCJ
W119 PDCJ Meadowbrook Golf Course Well
W127 PVGW
P50 Drift
W441 PDCJ
Field Trip Rolling Stop #3, Well SLP6
SLP12 CMSH
Meadowbrook Lake
E13 CJDN
W118 PDCJ
W401 PDCJ
E15 PDCJ
11:10 Field Trip Stop #2: Water Treatment Plant
Edina Water Treatment Plant
E2 PDCJ
Highlands Lake
Mirror Lake
Edina CC #3, PDCJ
11:00 AM Field Trip Stop #1: Edina Well E7
E7 PDCJ
Edina CC #2 PDCJ
E3 PDCJ
W 36th St
Aquila Ave S
Blake Rd N
Blake Rd S
S Xerxes Ave
France Ave S
W 50th St
W 54
Lake
169
7
25
3
100
17
31
32
1 mi
Google Earth
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Edina - SLP Field Trip
Edina Section
W118 PDCJ
E15 PDCJ
E2 PDCJ
E7 PDCJ
Edina CC #3, PDCJ
Edina CC #2 PDCJ
Edina Test Well PDCJ
11:10 Field Trip Stop #2: Water Treatment Plant
11:00 AM Field Trip Stop #1: Edina Well E7
Edina Water Treatment Plant
Meadowbrook Lake
Highlands Lake
Mirror Lake
Hawkes Lake
Lake Harvey
Country Club
Sunny Slope
Arden Pa
Vermont St
Branson St
Wood Ln
Mait Ln
Annaway Dr
Brook Ln
Brookside Ct
Thielen Ave
North Ave
Mackey Ave
Brook Ave S
Coolidge Ave
Dart Ave
Grimes Ave S
Sunnyside Rd
Bridge St
Moorland Ave
W Sunnyslope Rd
Westbrook Ln
Dale Dr
Country Club Rd
Maple Rd
W 50th St
Bruce Ave
Arden Ave
Juanita Ave
Indianola Ave
Eden Ave
100
Circle W
Circle E
Merilane Ave
Crescent Terrace
Cooper Ave
Hollywood Rd
Parkside Ln
Skyline Dr
Northwood Dr
Lochloy Dr
Villa Way
Grandview Ln
Willson Rd
Normandale Rd
Richmond Dr
Golf Terrace
Windsor Ave
Kent Ave
Yvonne Terrace
Oak Dr
Tower St
Hansen Rd
Dale Ave
Bernard Pl
Code Ave
Johnson Dr
Doncaster Way
Merritt Cir
Glengarry Pkwy
Chantrey Rd
Mirror Lakes Dr
Dundee Rd
Highwood Dr
Pine Grove Rd
Idylwood Dr
Saxony Rd
Lernon Ln
Meadow Ln
Google Earth
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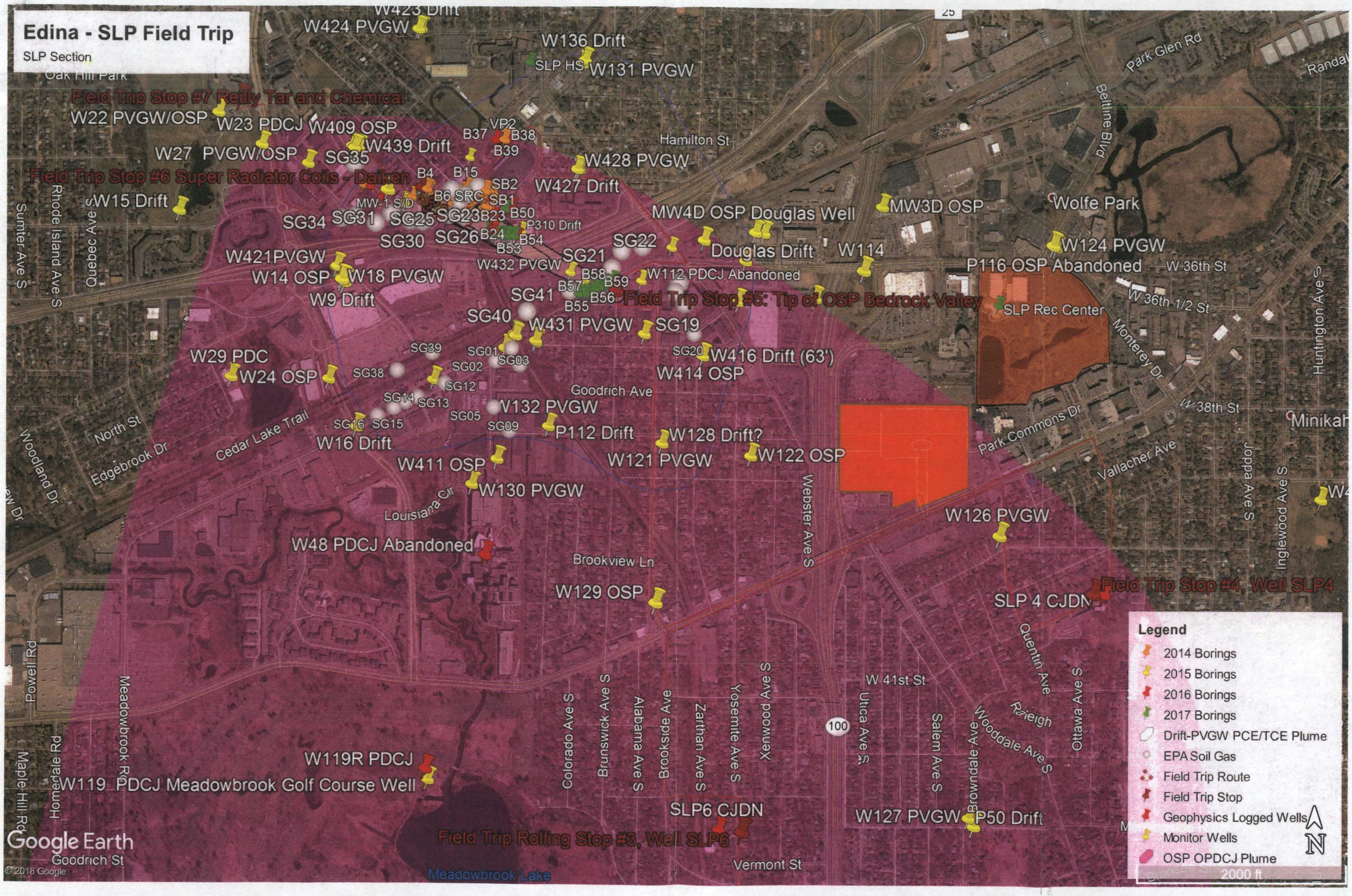
Legend
Edina Water Treatment Plant
Field Trip Route
Field Trip Stop
Geophysics Logged Wells
Monitor Wells
OSP OPDCJ Plume
2000 ft
N


Edina - SLP Field Trip
SLP Section
W423 Drift
W424 PVGW
W136 Drift
SLP HS
W131 PVGW
Oak Hill Park
Field Trip Stop #7 Reilly Tar and Chemical
W22 PVGW/OSP
W23 PDCJ
W409 OSP
W439 Drift
W27 PVGW/OSP
SG35
Field Trip Stop #6 Super Radiator Coils - Daiken
W15 Drift
VP2
B37
B38
B39
B4
B15
SB2
B6
SRC
SB1
MW-1 S/D
SG23
B23
B50
P310 Drift
SG34
SG31
SG25
SG30
SG26
B24
B54
B53
W428 PVGW
W427 Drift
Hamilton St
MW4D OSP Douglas Well
MW3D OSP
Wolfe Park
Park Glen Rd
Beltline Blvd
Randal
W421PVGW
W14 OSP
W18 PVGW
W9 Drift
W432 PVGW
SG21
SG22
Douglas Drift
W114
W124 PVGW
P116 OSP Abandoned
W 36th St
W 36th 1/2 St
B58
B59
B57
B56
B55
W112 PDCJ Abandoned
SG41
Field Trip Stop #5: Tip of OSP Bedrock Valley
SLP Rec Center
Monterey Dr
SG40
W431 PVGW
SG19
SG39
SG01
SG03
SG20
W416 Drift (63')
W29 PDC
W24 OSP
SG38
SG02
SG12
W414 OSP
Goodrich Ave
SG14
SG13
W132 PVGW
SG05
SG09
SG16
SG15
W16 Drift
P112 Drift
W128 Drift?
W121 PVGW
W122 OSP
W411 OSP
W130 PVGW
Louisiana Cir
Cedar Lake Trail
North St
Edgebrook Dr
Woodland Dr
Sumter Ave S
Rhode Island Ave S
Quebec Ave
Huntington Ave S
W 38th St
Park Commons Dr
Vallacher Ave
Joppa Ave S
Inglewood Ave S
Minikah
Webster Ave S
W126 PVGW
W48 PDCJ Abandoned
Brookview Ln
W129 OSP
Field Trip Stop #4, Well SLP4
SLP 4 CJDN
Quentin Ave
Powell Rd
Meadowbrook Rd
Colorado Ave S
Brunswick Ave S
Alabama Ave S
Brookside Ave
Zarthan Ave S
Yosemite Ave S
Xenwood Ave S
W 41st St
Utica Ave S
Salem Ave S
Browndale Ave
Wooddale Ave S
Raleigh
Ottawa Ave S
100
W119R PDCJ
W119 PDCJ Meadowbrook Golf Course Well
Maple Hill Rd
Homedale Rd
SLP6 CJDN
Field Trip Rolling Stop #3, Well SLP6
W127 PVGW
P50 Drift
Goodrich St
Vermont St
Meadowbrook Lake
Google Earth
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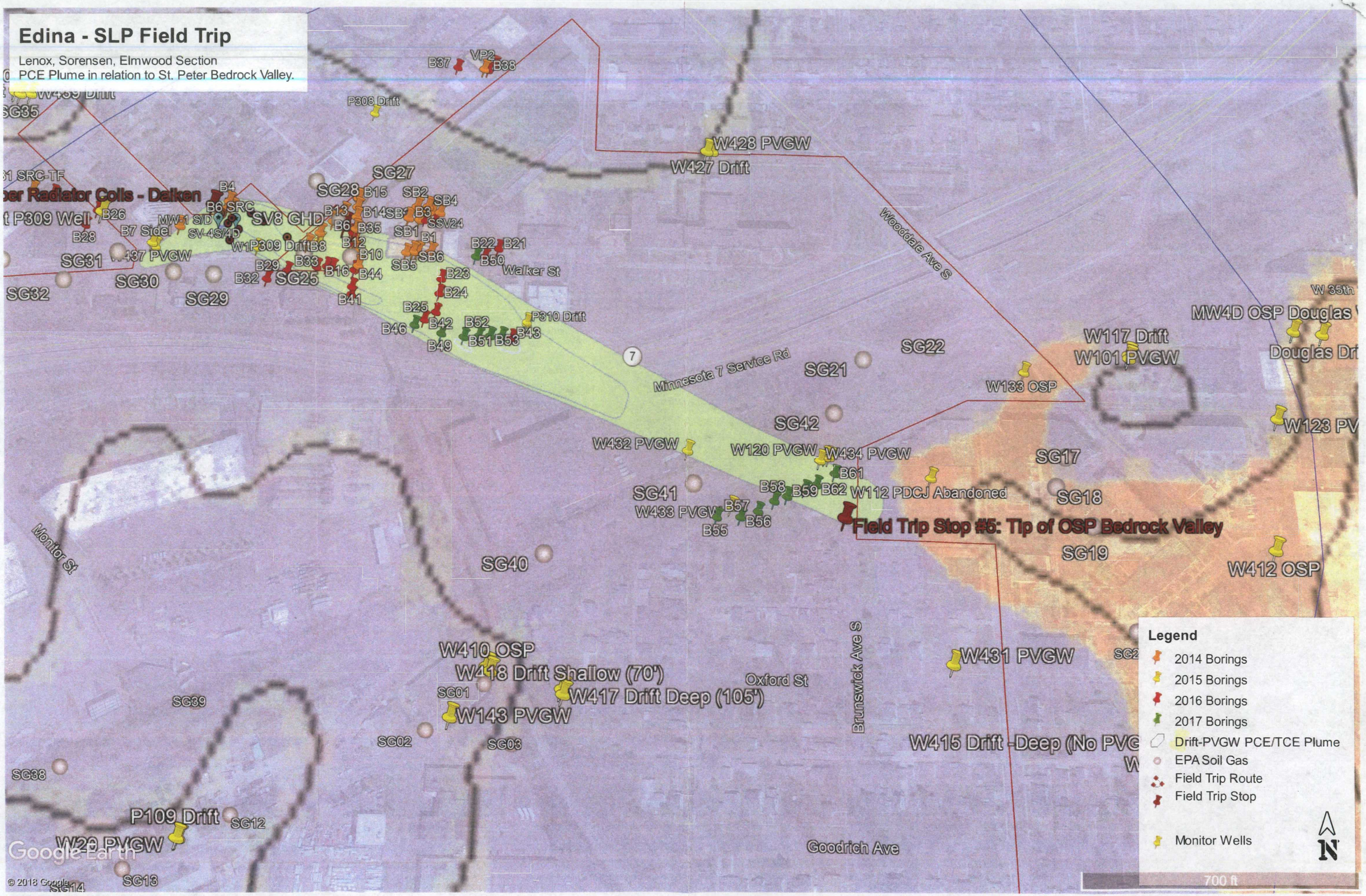
Legend
2014 Borings
2015 Borings
2016 Borings
2017 Borings
Drift-PVGW PCE/TCE Plume
EPA Soil Gas
Field Trip Route
Field Trip Stop
Geophysics Logged Wells
Monitor Wells
OSP OPDCJ Plume
2000 ft
N

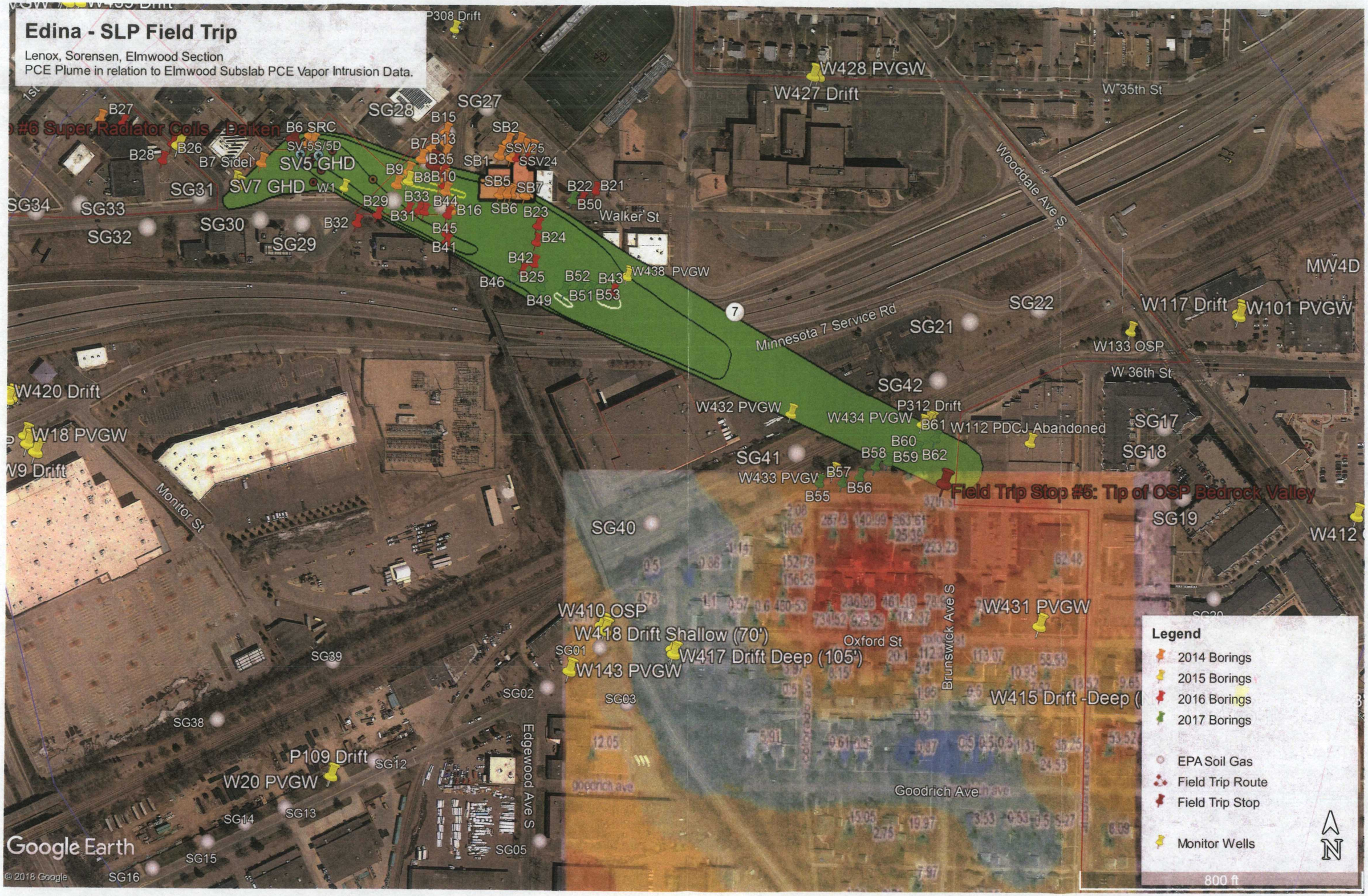
Edina - SLP Field Trip

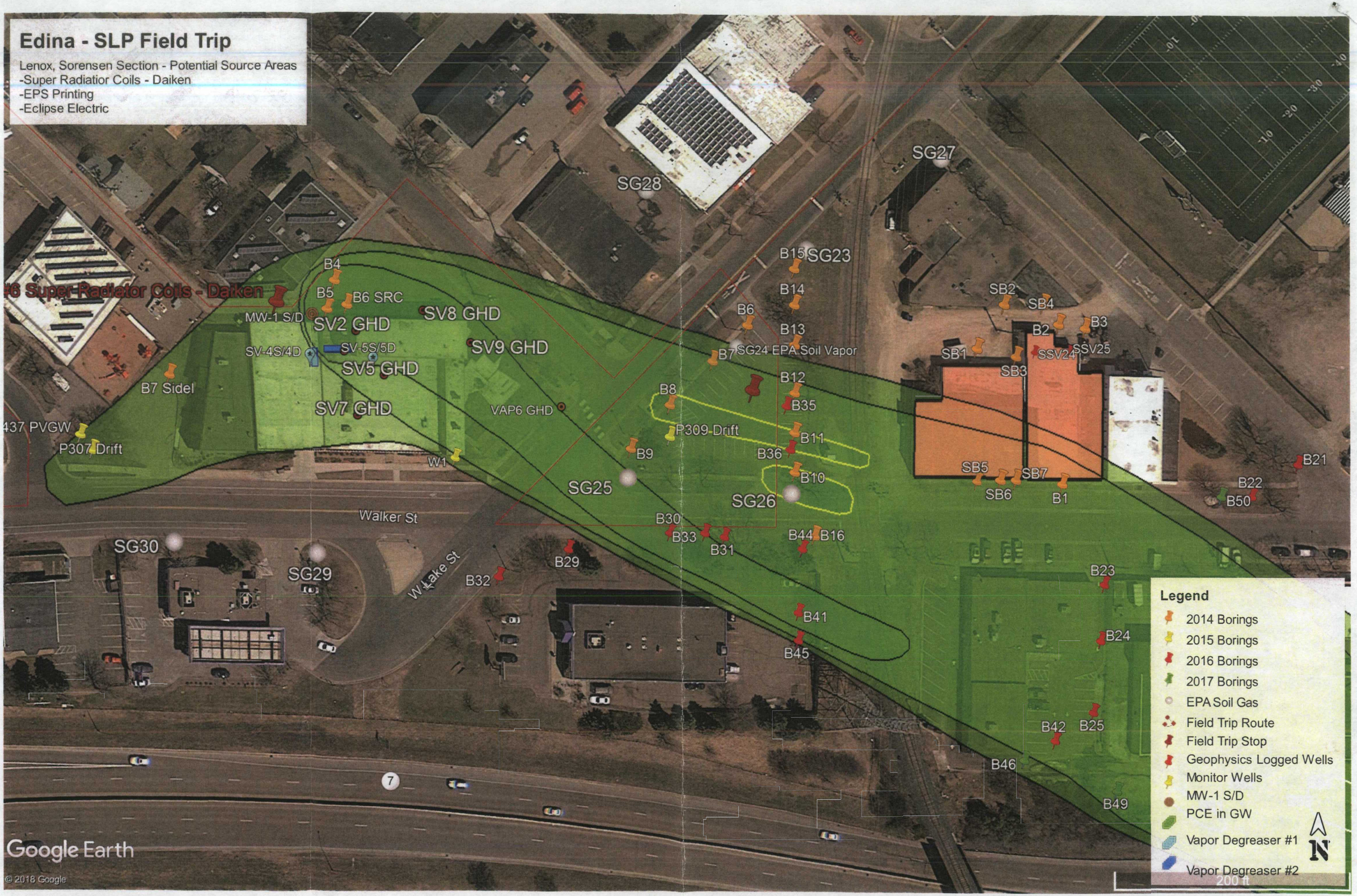
Lenox, Sorensen, Elmwood Section
PCE Plume in relation to St. Peter Bedrock Valley.



Edina - SLP Field Trip

Lenox, Sorensen, Elmwood Section
PCE Plume in relation to Elmwood Subslab PCE Vapor Intrusion Data.




Edina - SLP Field Trip
Lenox, Sorensen Section - Potential Source Areas
-Super Radiatior Coils - Daiken
-EPS Printing
-Eclipse Electric
#6 Super Radiator Coils - Daiken
MW-1 S/D
SV-4S/4D
SV-5S/5D
SV2 GHD
SV5 GHD
SV7 GHD
SV8 GHD
SV9 GHD
VAP6 GHD
B4
B5
B6 SRC
B7 Sidel
437 PVGW
P307 Drift
W1
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
B16
B21
B22
B23
B24
B25
B29
B30
B31
B32
B33
B35
B36
B41
B42
B44
B45
B46
B49
B50
B1
B2
B3
SB1
SB2
SB3
SB4
SB5
SB6
SB7
SSV24
SSV25
SG24 EPA Soil Vapor
P309 Drift
SG23
SG25
SG26
SG27
SG28
SG29
SG30
Walker St
Lake St
Legend
2014 Borings
2015 Borings
2016 Borings
2017 Borings
EPA Soil Gas
Field Trip Route
Field Trip Stop
Geophysics Logged Wells
Monitor Wells
MW-1 S/D
PCE in GW
Vapor Degreaser #1
Vapor Degreaser #2
200 ft
N
Google Earth
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Edina - SLP Field Trip

Lenox Section - Reilly Tar and Chemical / SRC - Daiken

Legend

- 2014 Borings
- 2015 Borings
- 2016 Borings
- 2017 Borings
- EPA Soil Gas
- Field Trip Route
- Field Trip Stop
- Monitor Wells
- MW-1 S/D
- PCE in GW
- Vapor Degreaser #1
- Vapor Degreaser #2

Field Trip Stop #7 Reilly Tar and Chemical

Field Trip Stop #6 Super Radiator Coils - Daiken

Oak Leaf Ct

2nd St

1st St NW

1st St

Republic Ave

Walker St

W23 PDCJ

W27 PVGW/OSP

W409 OSP

W425 Drift

W439 Drift

SG35

B1 SRC-TF

B27

B26

B28

B7 Sidel

W437 PVGW

P307 Drift

SG31

SG34

SG33

SG32

SG30

SG29

B32

B29

SG25

B30

B9

B8

W1

VAP6 GHD

SV7 GHD

VAP12 GHD

SV2 GHD

MW-1 S/D

B6 SRC

B4

SG28

500 ft

N

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