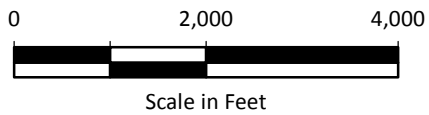


Legend

- Boeing Property
- City Limits
- Waterways
- Water Bodies
- Wetland Areas

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

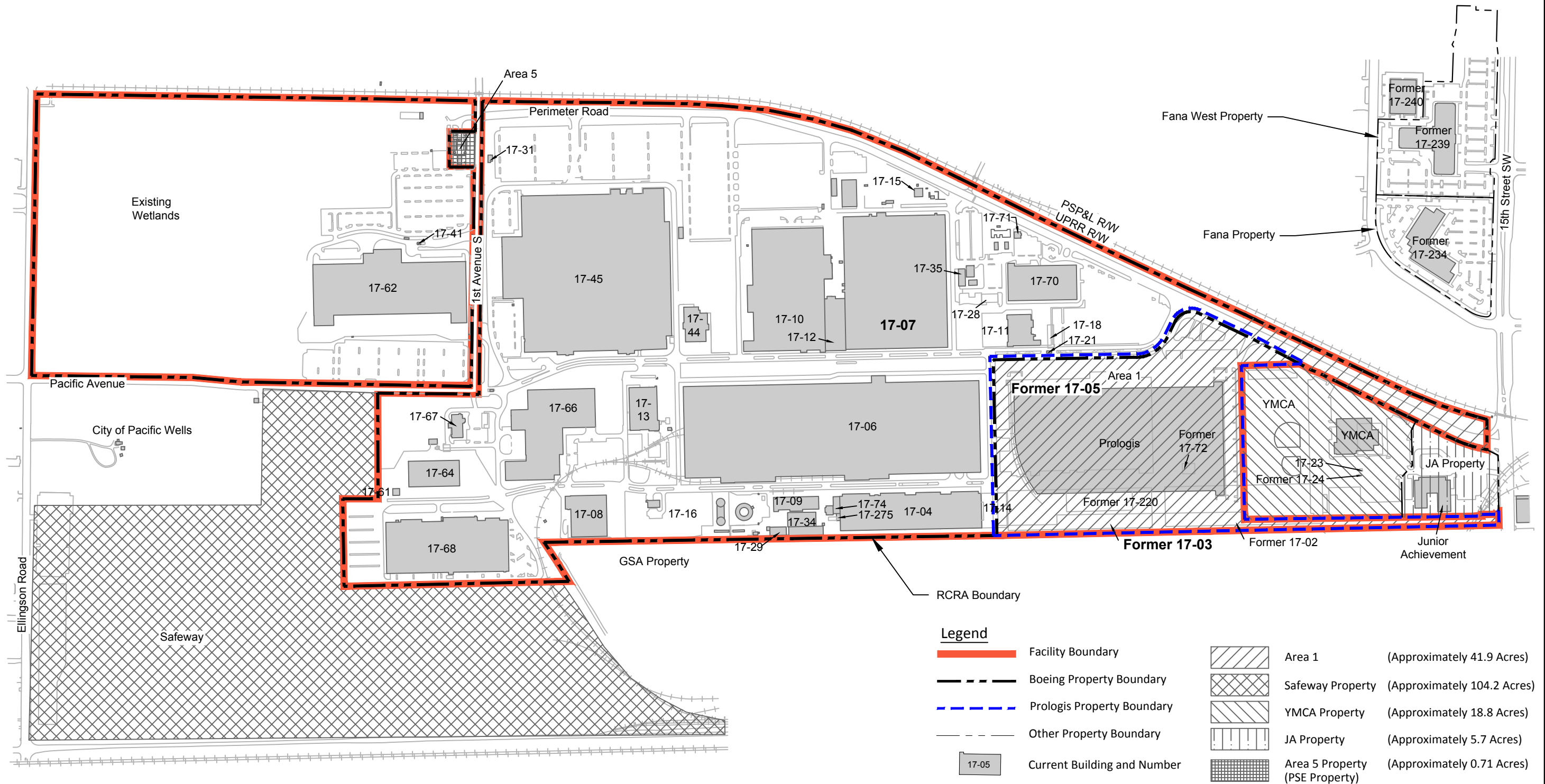


Data Source: Esri World Topo Map

Boeing Auburn
Feasibility Study
Auburn, Washington

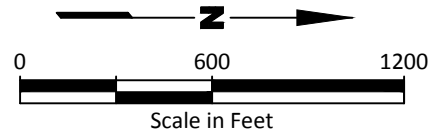
Vicinity Map

Figure
1-1



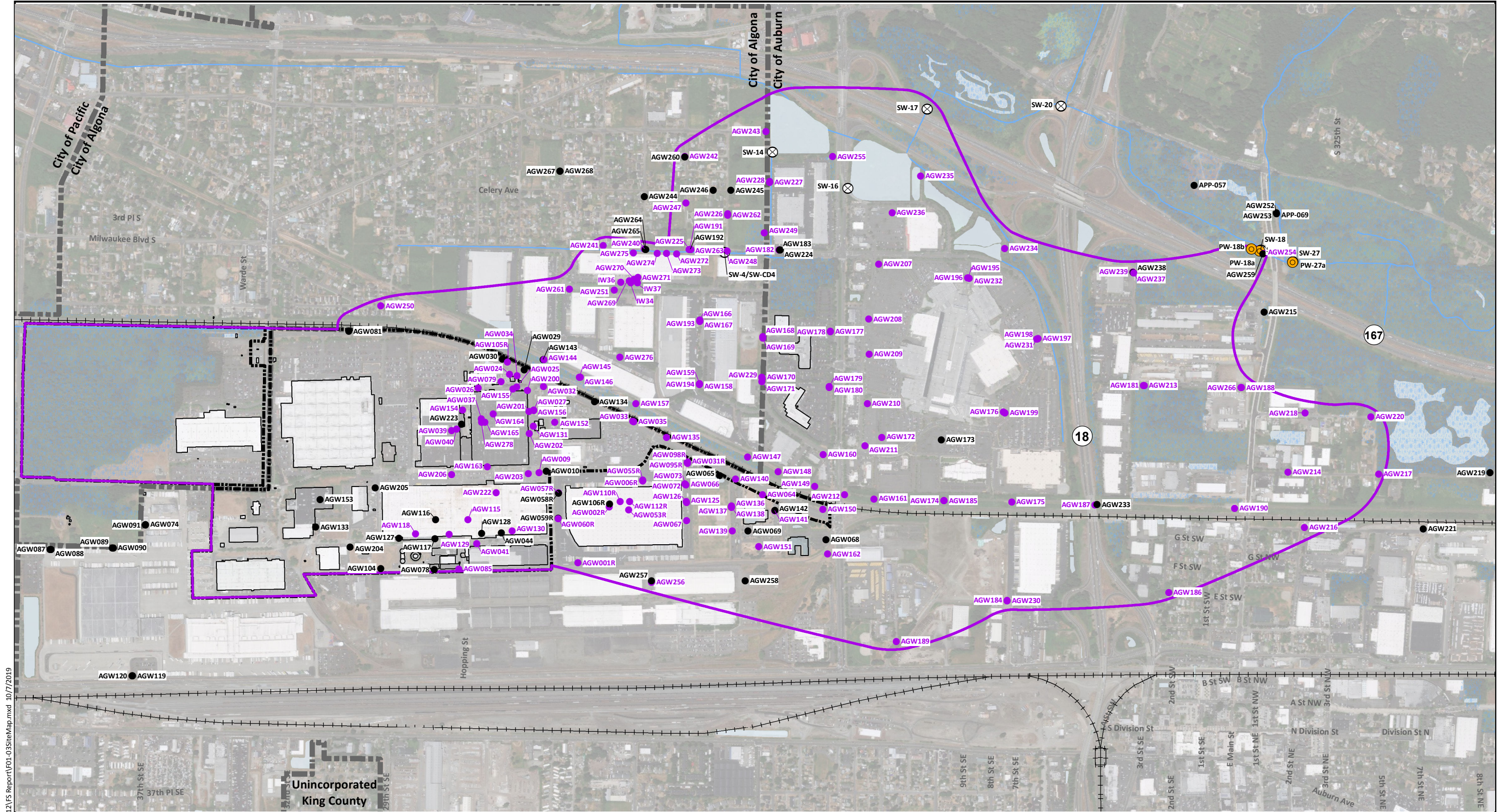
Notes

1. Former Building Numbers 17-234, 17-239 and 17-240 are currently owned by Fana.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Base map source: Geomatrix 2003

Boeing Auburn Feasibility Study Auburn, Washington	Facility Map	Figure 1-2
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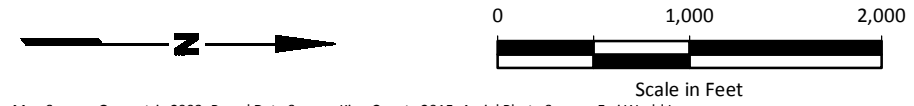


Notes

1. Detections of chlorinated volatile organic compounds (CVOCs), trichloroethene (TCE), cis-1,2-Dichloroethene (cDCE), and vinyl chloride (VC) determined based on most recent data as of December 2018.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Well with no Detections of TCE, cDCE, or VC
- Well with Detections of TCE, cDCE, or VC
- ⊗ Current Surface Water Sample Location
- Pore Water Sample Location
- City Limits
- Boeing Property
- Approximate Extent of Site (Including Facility and Monitoring Wells with Detections of CVOCs)
- Wetland Areas
- Water Bodies
- Waterways

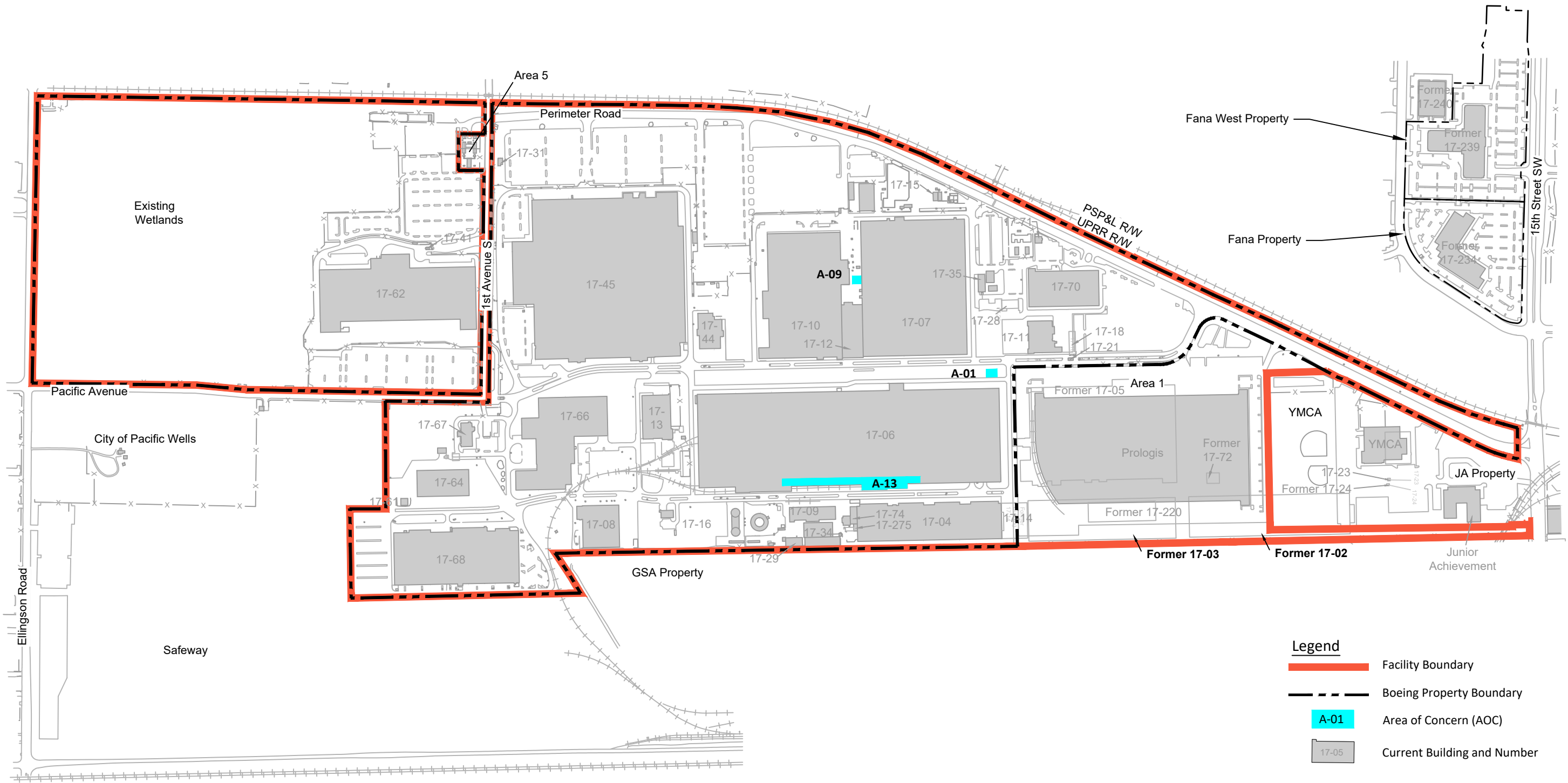


Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

Boeing Auburn Feasibility Study Auburn, Washington	Site Map	Figure 1-3
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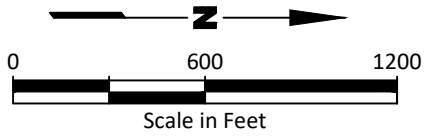




Legend

- Facility Boundary
- Boeing Property Boundary
- A-01
- Current Building and Number

- Notes**
1. Former Building Numbers 17-234, 17-239 and 17-240 are currently owned by Fana.
 2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



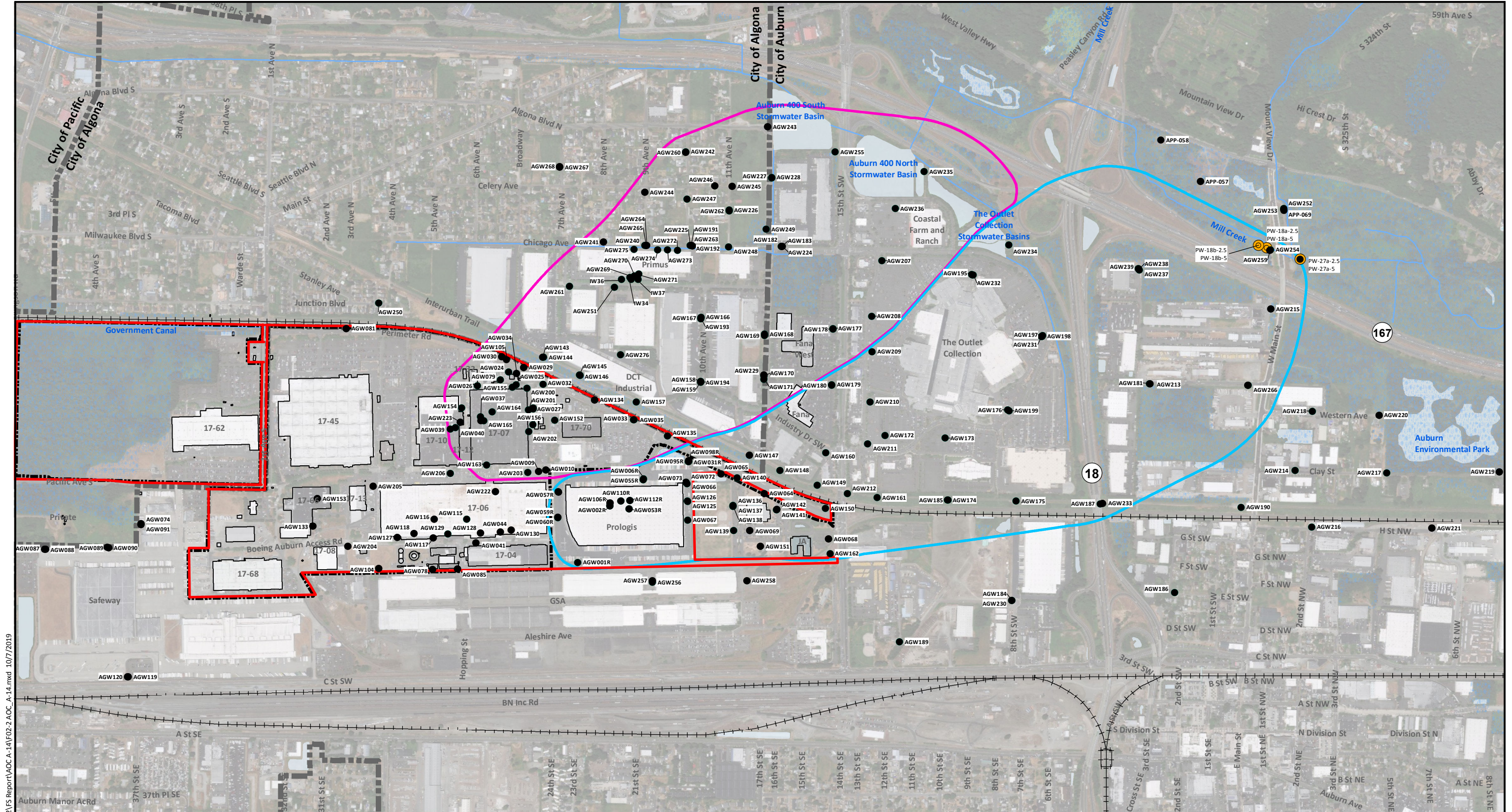
Base map source: Geomatrix 2003



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Feasibility Study
Auburn, Washington

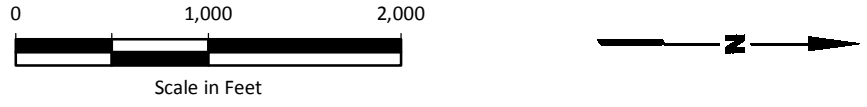
**Facility Areas of Concern
Carried Forward to the
Feasibility Study**

Figure
2-1



Notes
 1. The current monitoring well network is shown.
 2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

- Legend**
- Monitoring Well
 - Pore Water Sample Location
 - Area 1 Plume
 - Western Plume
 - City Limits
 - Facility Boundary
 - Boeing Property
 - Wetland Areas
 - Water Bodies
 - Waterways

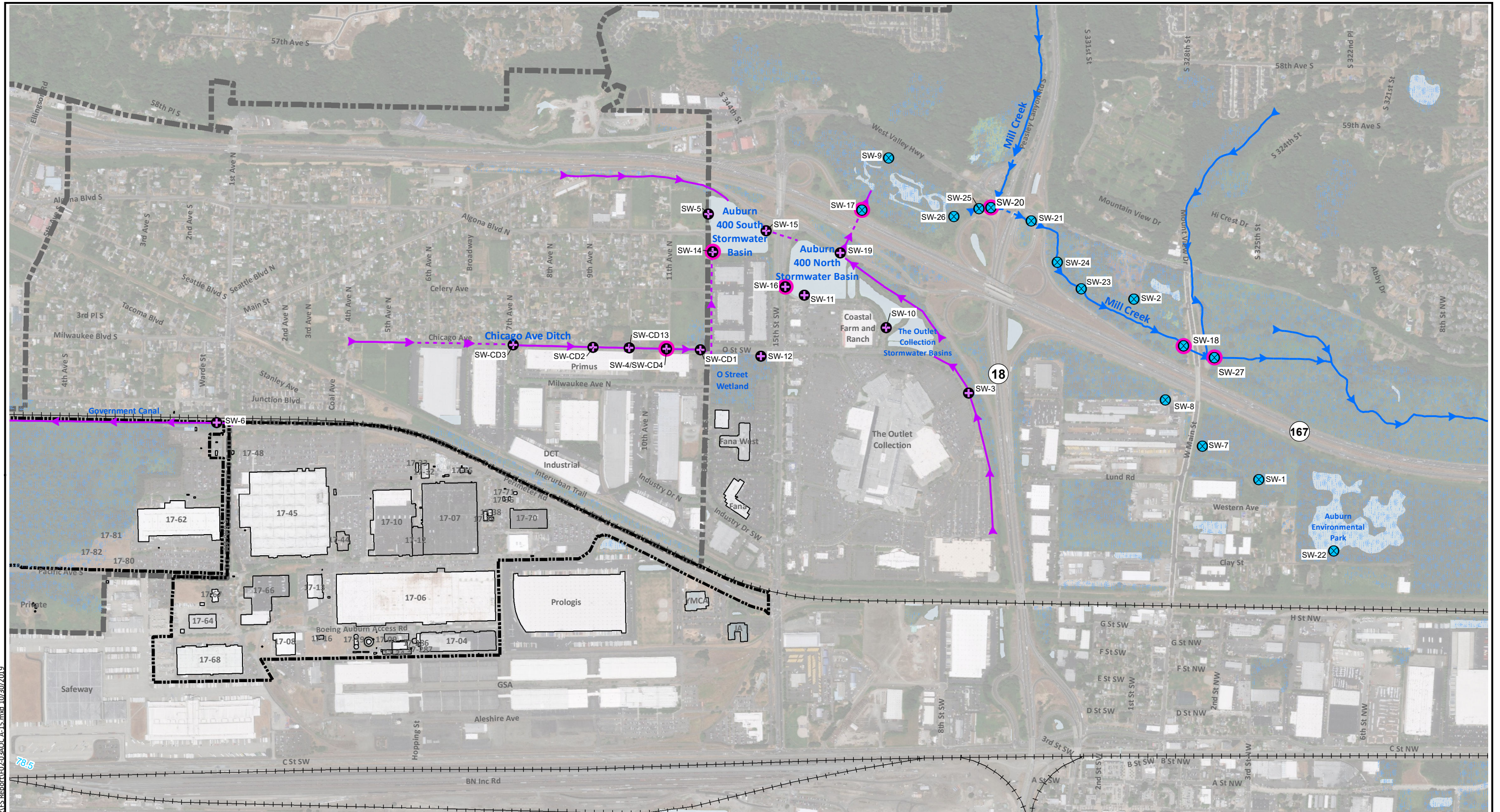


Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2012

Boeing Auburn Feasibility Study Auburn, Washington	Monitoring Well Network and Approximate Extent of Area 1 and Western Plumes	Figure 2-2
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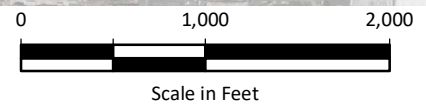
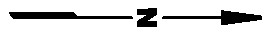
G:\Projects\025164\170117\ES Report\102-03AOC-A-15.mxd 10/30/2019

Legend

- ⊕ Stormwater Sample Location
- ⊗ Surface Water Sample Location
- Ongoing Sample Location
- Open Surface Water Channel
- Open Stormwater Ditch
- Piped Surface Water Conveyance
- Piped Stormwater Conveyance
- Wetland Areas
- Boeing Property
- City Limits

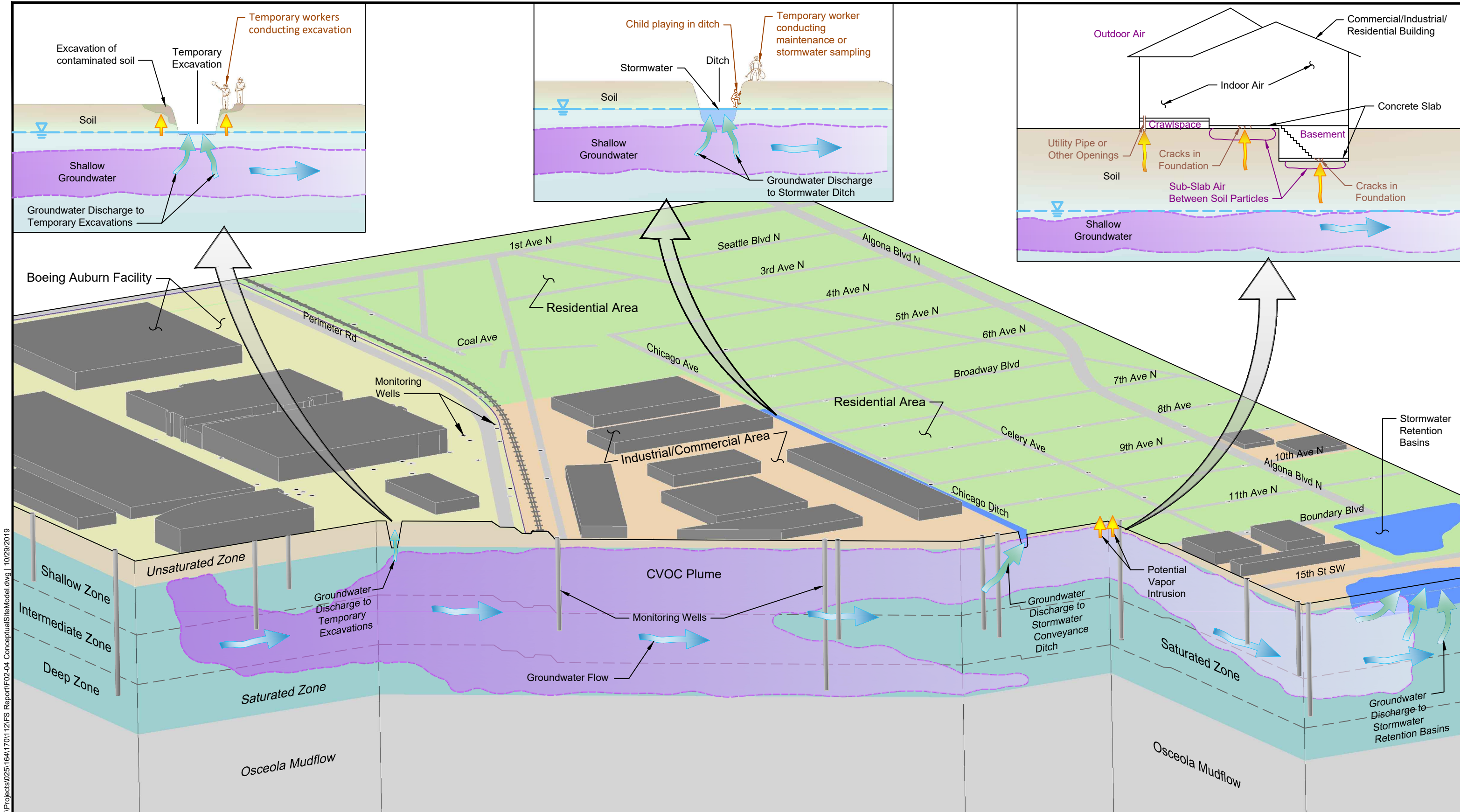
Notes

1. Surface water sampling locations are designated by SW.
2. The locations of stormwater/surface water features are approximate.
3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

<p>Boeing Auburn Feasibility Study Auburn, Washington</p>	<p>Stormwater and Surface Water Features</p>	<p>Figure 2-3</p>
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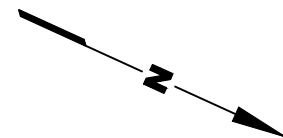
Legend

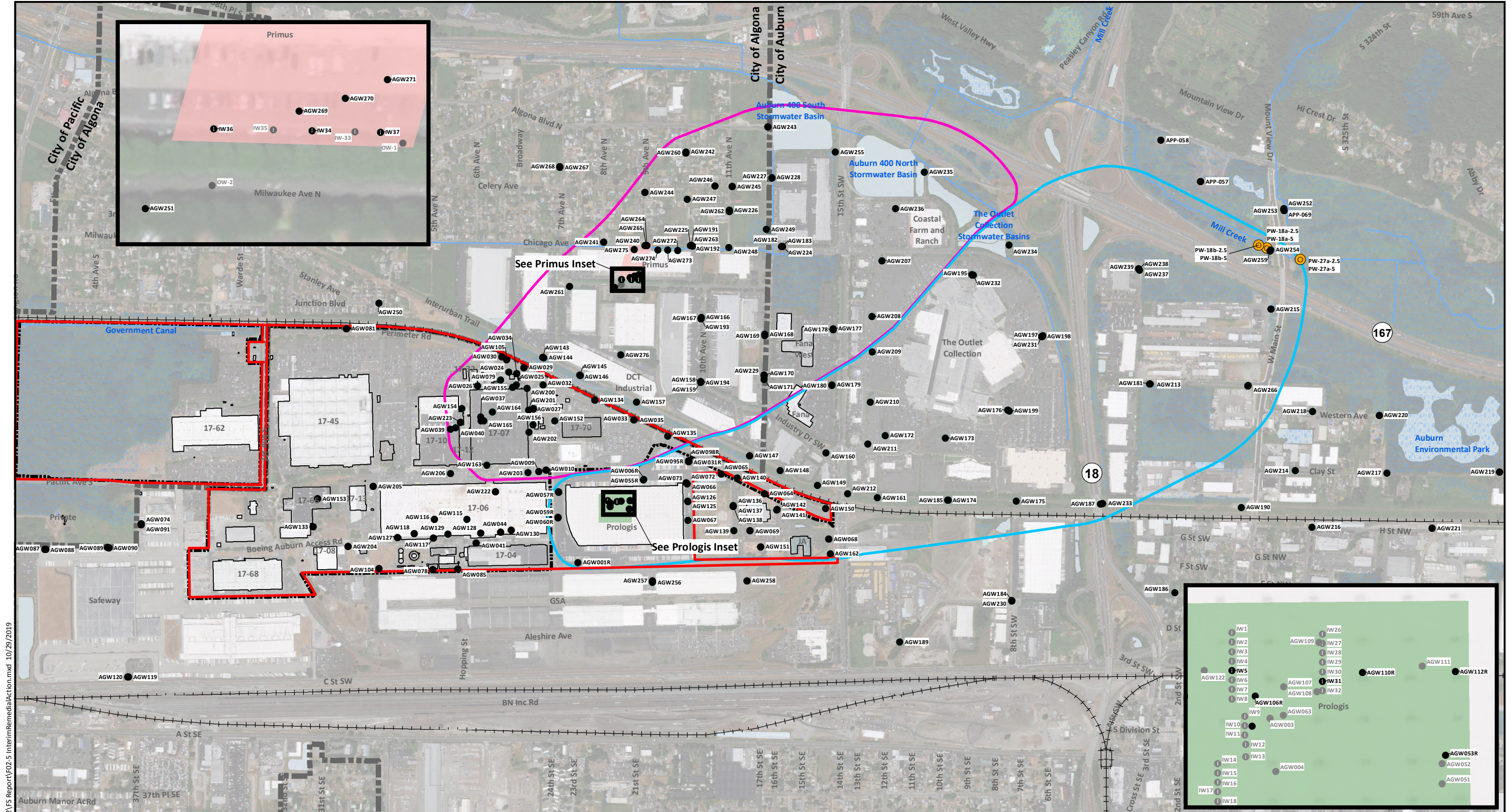
- Groundwater Flow
- Surface Water Discharge
- Potential Vapor Intrusion

Notes

1. Not to scale.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

CVOC = chlorinated volatile organic compounds



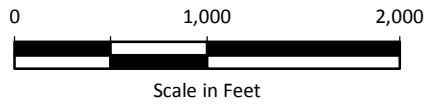


Notes

1. The current monitoring well network is shown.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

● Monitoring Well	□ Area 1 Plume	— Facility Boundary
● Injection Well	□ Western Plume	--- Boeing Property
○ Injection Well (Decommissioned)	■ Area 1 IRA	■ Wetland Areas
● Monitoring Well (Decommissioned)	■ Pilot Test Area	■ Water Bodies
⊙ Pore Water Sample Location	— City Limits	— Waterways



Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2012

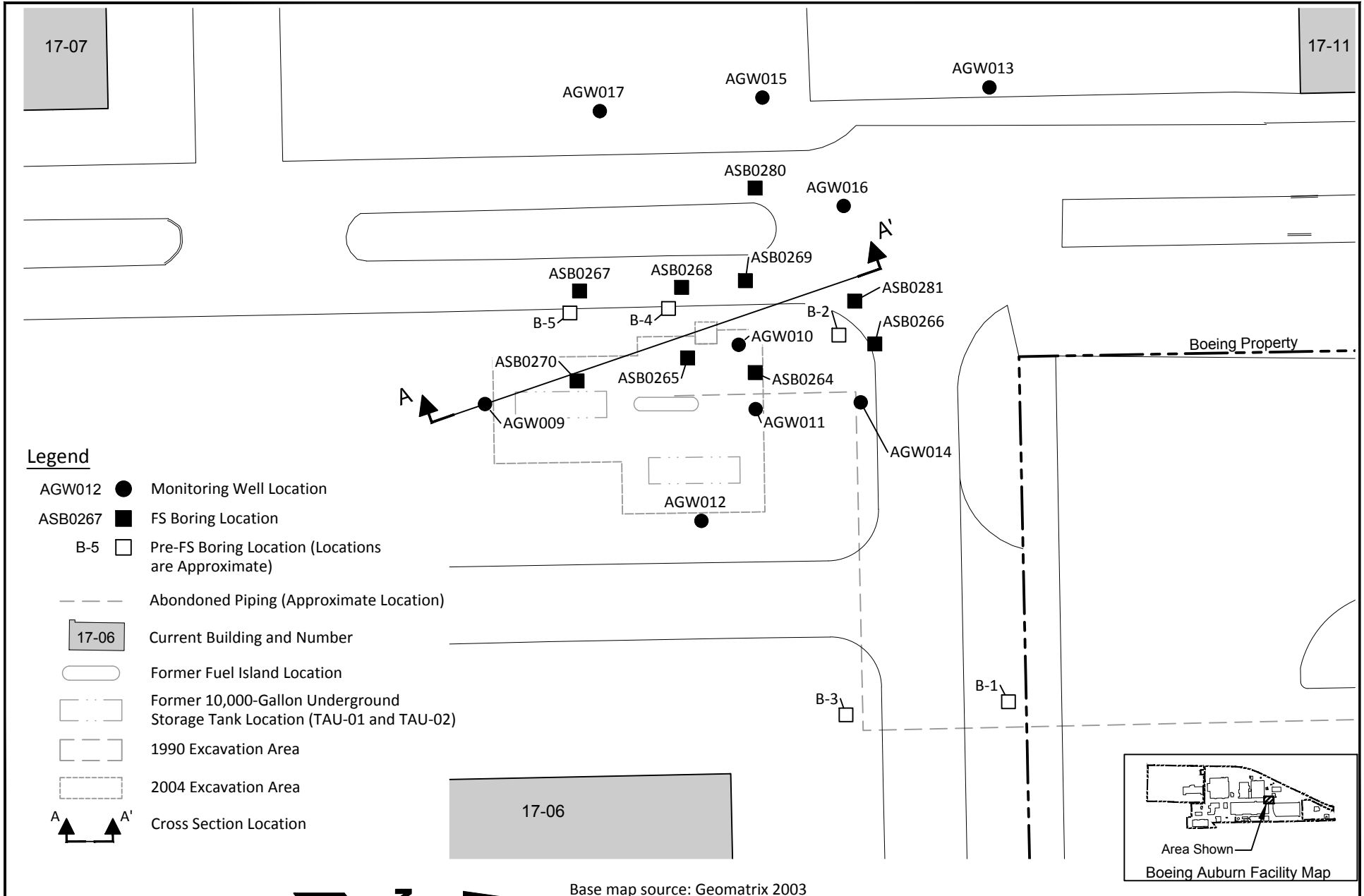
Boeing Auburn Feasibility Study Auburn, Washington

Locations of Interim Remedial Action and Enhanced *In Situ* Bioremediation Pilot Test

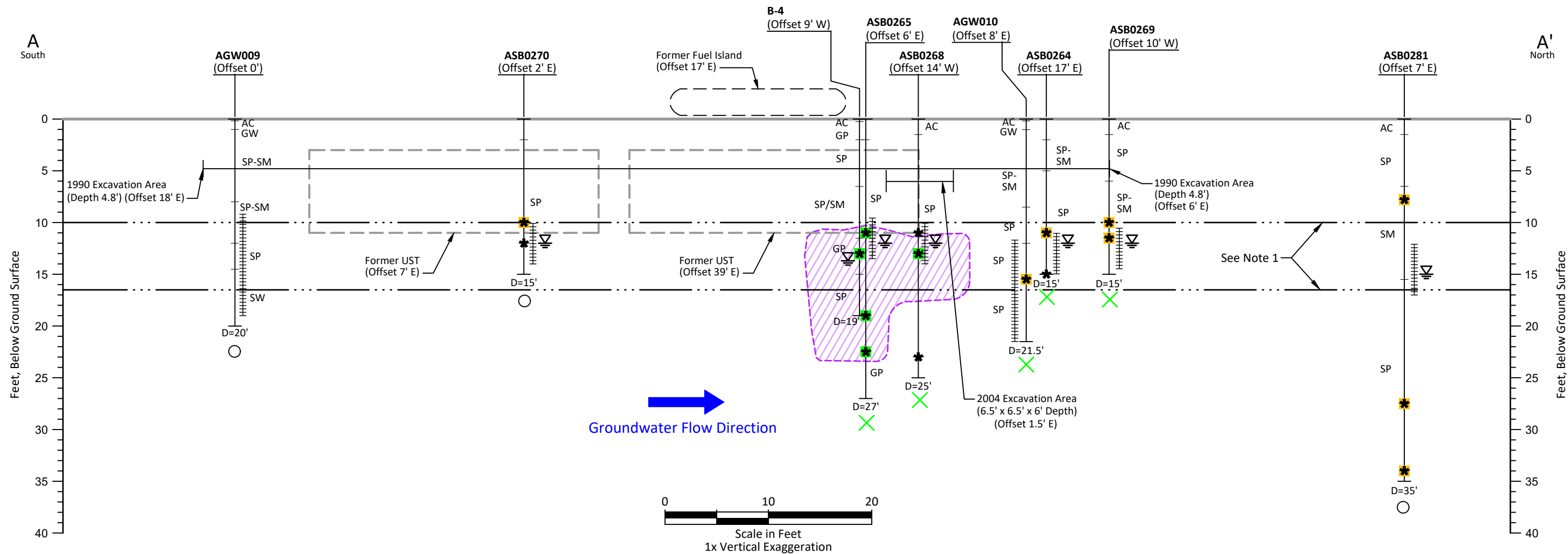
Figure 2-5

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Legend

- ASB0281 (offset: 7' E) — Exploration Designation
- Top of Exploration
- * = Soil sample (Analytes = Not detected)
- ✱ = Soil sample (Analytes = Detected, below pCULs)
- ✱ = Soil sample (Analytes = Detected, above pCULs)
- SM — Unified Soil Classification Symbol (USCS)
- ▽ — Water Level (At Time of Drilling)
- Screen Interval
- D=35' — Depth of Exploration (feet)
- = Analytes not detected in groundwater
- ✱ = Analytes detected below pCULs in groundwater
- ✱ = Analytes detected above pCULs in groundwater
- ▨ = Analytes detected above pCULs in soil

AOC A-01	Groundwater pCUL (µg/L)	Soil pCUL (mg/kg)
Benzene	5	2,400
Ethylbenzene	700	5.9
Toluene	640	280,000
Total Xylenes	1,600	14
GRO (a)	800/1,000	30/100
DRO	500	2,000

(a) Lower pCUL is used if benzene is detected; higher pCUL is used if benzene is not detected.

USCS Soil Legend

- AC = asphalt/concrete pavement
- GP = poorly graded gravel; gravel/sand mixture(s); little or no fines
- GW = well-graded gravel; gravel/sand mixture(s); little or no fines
- SM = silty sand; sand/silt mixture(s)
- SP = poorly graded sand; gravelly sand; little or no fines
- SW = well-graded sand; gravelly sand; little or no fines

Acronyms / Abbreviations

- AOC = area of concern
- DRO = diesel-range organics
- GRO = gasoline-range organics
- mg/kg = milligrams per kilogram
- pCUL = proposed cleanup level
- µg/L = micrograms per liter
- UST = underground storage tank

Notes

1. Lines indicated show the maximum and minimum water level elevation measured from AGW009 or AGW010 from December 2003 to December 2018.
2. B-4, AGW009, and AGW010 were completed August 1991, and borings in the "ASB" series were completed June or August 2017.
3. Green, orange, and black symbols beneath monitoring wells reflect the most recent data.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



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Auburn, Washington

**AOC A-01: Building 17-06 Former
Underground Storage Tanks (TAU-01
and TAU-02) Exploration Cross-Section**

Figure
4-2

Landau Associates | G:\Projects\025\164\170\112\FS Report\AOC A-01\AOC A-01 Soils Results.dwg | 10/4/2019 4:29 PM | JVALLUZZI

Legend

- AGW012 ● Monitoring Well Location
- ASB0267 ■ FS Boring Location
- B-5 □ Pre-FS Boring Location (Locations are Approximate)
- No highlighting = No detection
- Orange = Detection below pCUL
- Green = Exceedance of pCUL
- - - Abandoned Piping (Approximate Location)
- 17-06 Current Building and Number
- Former Fuel Island Location
- Former 10,000-Gallon Underground Storage Tank Location
- 1990 Excavation Area
- 2004 Excavation Area

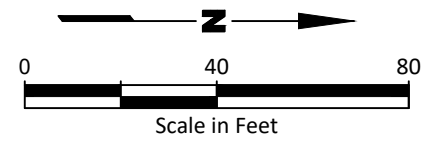
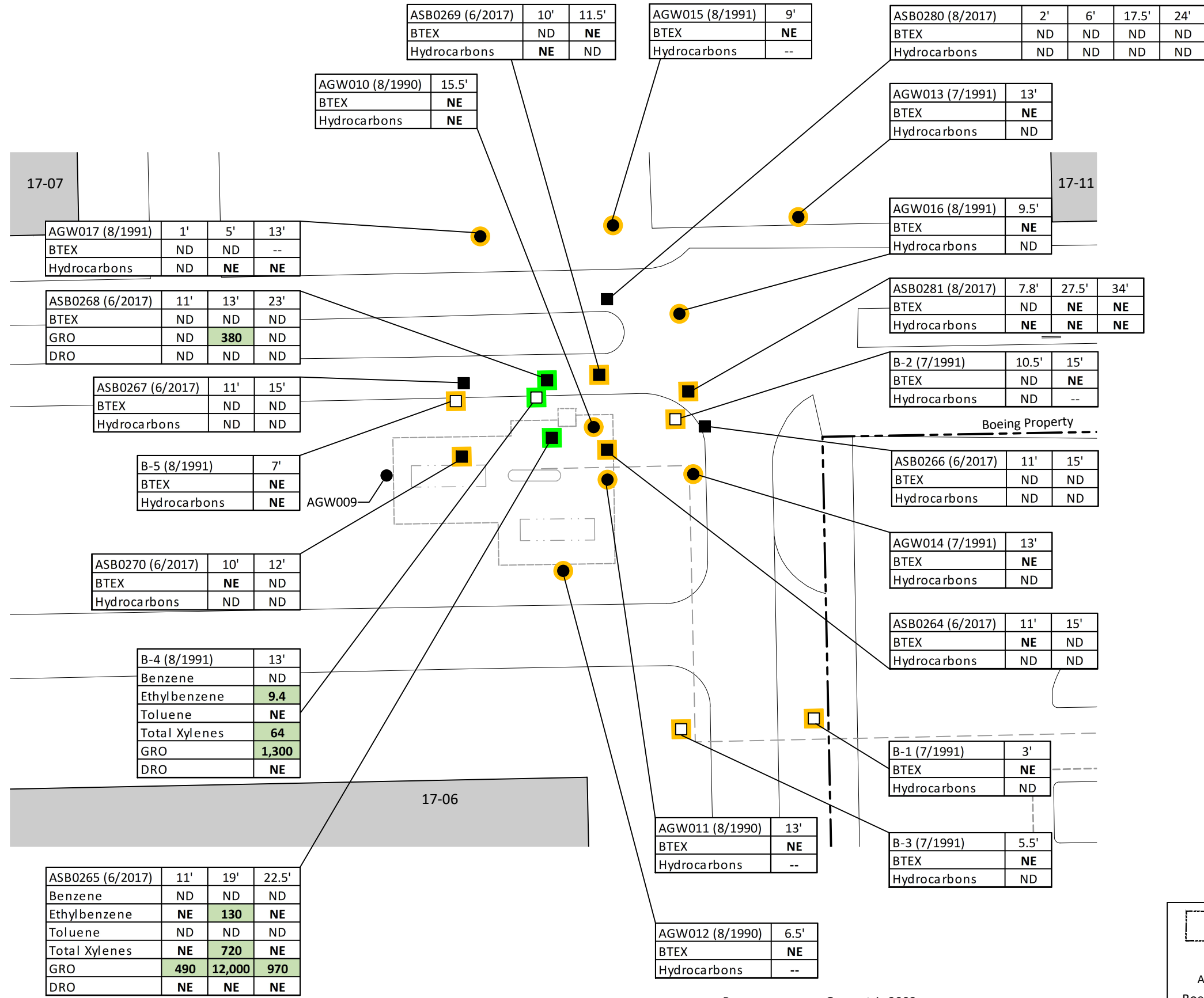
AOC A-01	Soil pCUL (mg/kg)
Benzene	2,400
Ethylbenzene	5.9
Toluene	280,000
Total Xylenes	14
GRO (a)	30/100
DRO	2,000

(a) 30 mg/kg is used if benzene is detected;
100 mg/kg is used if benzene is not detected

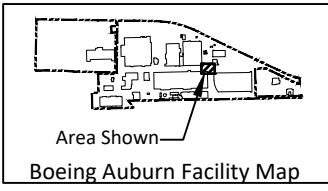
Notes

1. All analytes are shown in milligrams per kilogram (mg/kg).
2. In the data boxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL).
3. Hydrocarbons for Area of Concern (AOC) A-09 include GRO (gasoline-range organics) and DRO (diesel-range organics) only. ORO (oil-range organics) is not included because it does not exceed pCULs at any location.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

- = not analyzed
- BTEX = benzene, toluene, ethylbenzene, total xylenes
- ND = non-detect, the analyte was analyzed for, but was not detected
- NE = no exceedance, one or more analytes were detected but do not exceed pCULs



Base map source: Geomatrix 2003



Legend

- AGW012 ● Monitoring Well Location
- ASB0267 ■ FS Boring Location
- B-5 □ Pre-FS Boring Location (Locations are Approximate)
- No highlighting = No detection
- Orange = Detection below groundwater pCUL
- Green = Exceedance of groundwater pCUL
- - - Abandoned Piping (Location is Approximate)
- 17-06 Current Building and Number
- Former Fuel Island Location
- Former 10,000-Gallon Underground Storage Tank Location
- 1990 Excavation Area
- 2004 Excavation Area

AOC A-01	Groundwater pCUL (µg/L)
Benzene	5
Ethylbenzene	700
Toluene	640
Total Xylenes	1,600
GRO (a)	800/1,000
DRO	500

(a) 800 µg/L is used if benzene is detected; 1,000 µg/L is used if benzene is not detected.

Notes

1. All analytes are shown in micrograms per liter (µg/L).
2. For monitoring wells, the most recent data are shown.
3. All monitoring wells on this figure are screened across the water table.
4. In the data boxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL).
5. Hydrocarbons for Area of Concern (AOC) A-09 include GRO (gasoline-range organics) and DRO (diesel-range organics) only. ORO (oil-range organics) is not included because it does not exceed pCULs at any location.
6. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

BTEX = benzene, toluene, ethylbenzene, total xylenes
 ND = non-detect, the analyte was analyzed for, but was not detected
 NE = no exceedance, one or more analytes were detected but do not exceed pCULs

AGW017	Most Recent	Date
BTEX	ND	6/2009
Hydrocarbons	ND	12/2004

AGW015	Most Recent	Date
BTEX	ND	9/2017
GRO	ND	9/2017
DRO	NE	9/2017

AGW013	Most Recent	Date
BTEX	ND	12/2004
Hydrocarbons	ND	12/2004

AGW016	Most Recent	Date
BTEX	ND	6/2017
Hydrocarbons	ND	6/2017

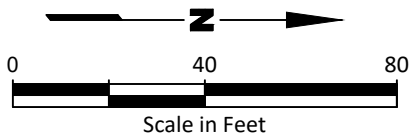
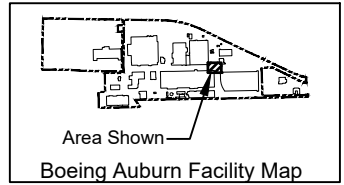
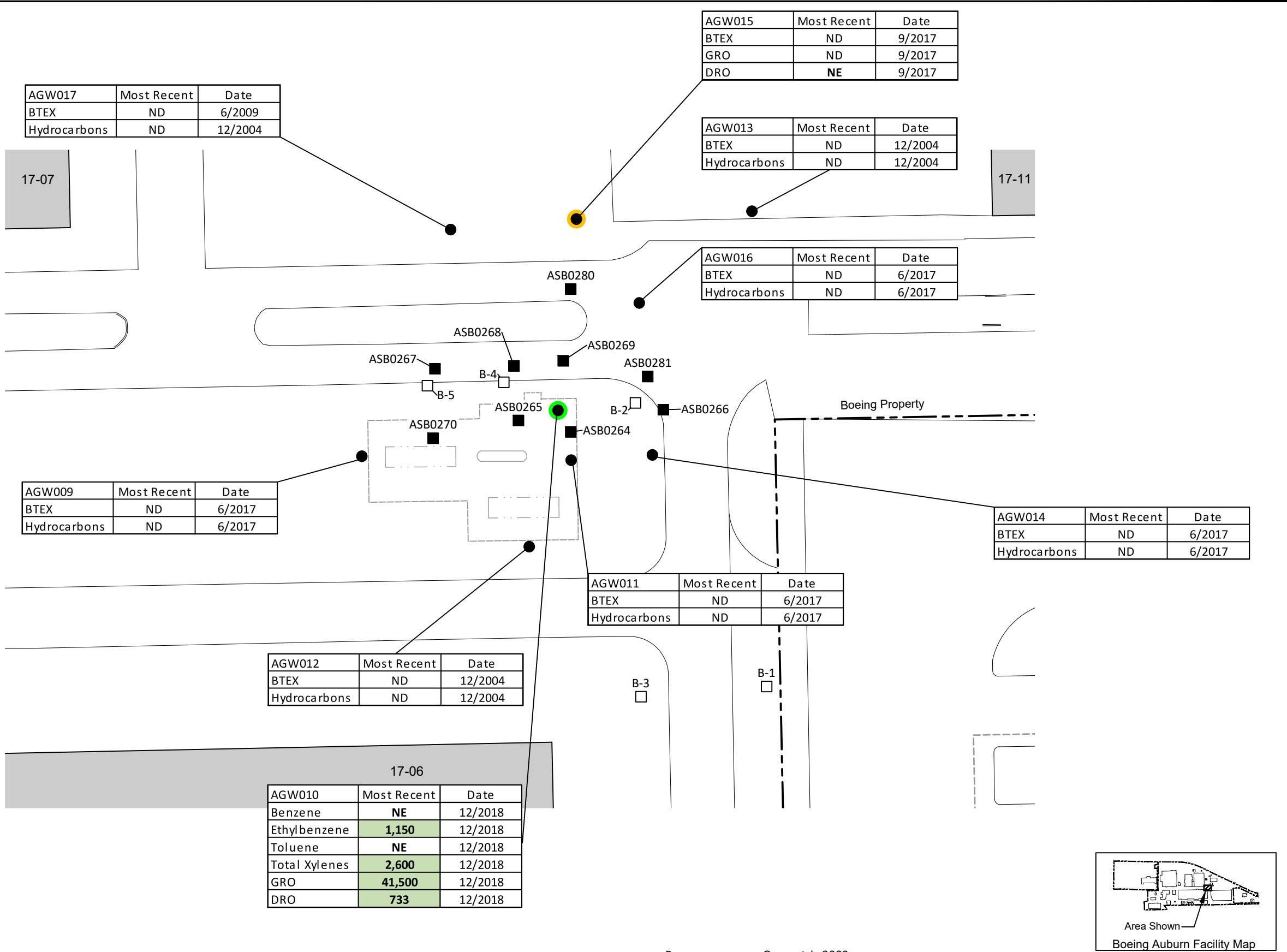
AGW009	Most Recent	Date
BTEX	ND	6/2017
Hydrocarbons	ND	6/2017

AGW014	Most Recent	Date
BTEX	ND	6/2017
Hydrocarbons	ND	6/2017

AGW011	Most Recent	Date
BTEX	ND	6/2017
Hydrocarbons	ND	6/2017

AGW012	Most Recent	Date
BTEX	ND	12/2004
Hydrocarbons	ND	12/2004

AGW010	Most Recent	Date
Benzene	NE	12/2018
Ethylbenzene	1,150	12/2018
Toluene	NE	12/2018
Total Xylenes	2,600	12/2018
GRO	41,500	12/2018
DRO	733	12/2018



Base map source: Geomatrix 2003

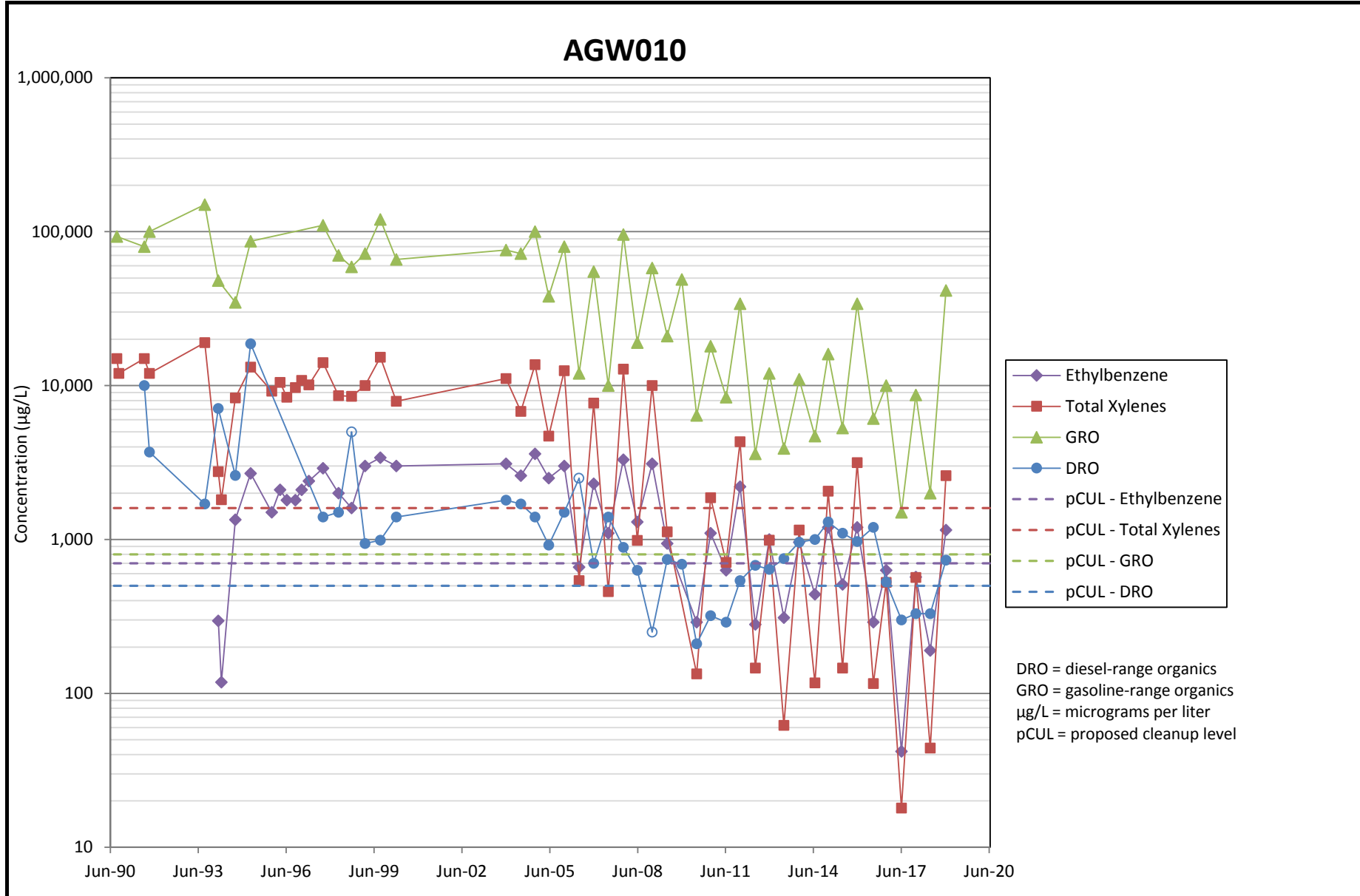
Boeing Auburn Feasibility Study Auburn, Washington

AOC A-01: Building 17-06 Former Underground Storage Tanks (TAU-01 and TAU-02) Groundwater Results

Figure 4-4

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Boeing Auburn
 Feasibility Study
 Auburn, Washington

AOC A-01: AGW010 Time Series Plot

Figure
4-5

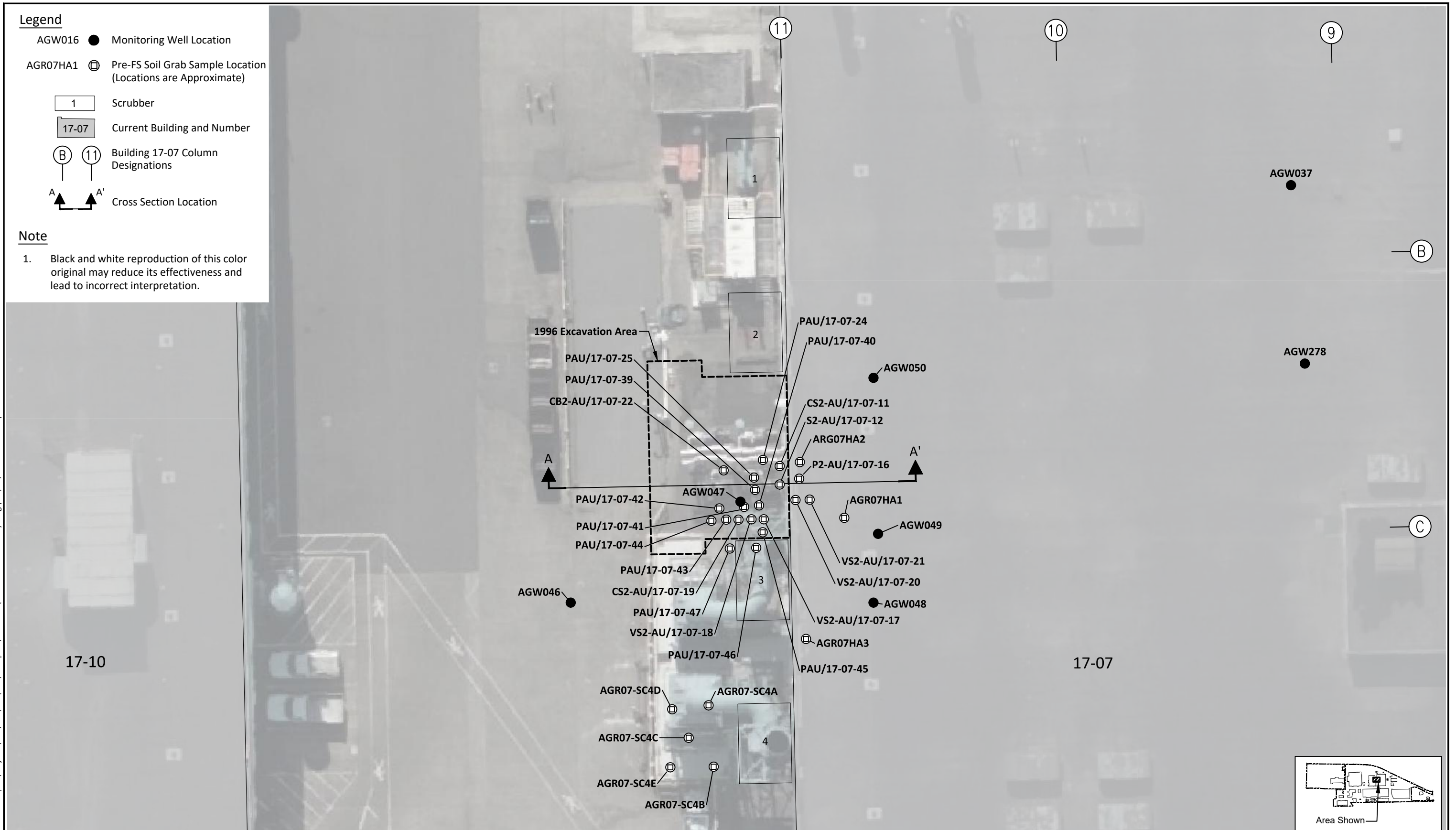
Landau Associates | G:\Projects\025\164\170\112\Fs Report\AOC A-09\F04-06 A-09 Summary.dwg | 10/29/2019 10:54 AM | JVALLUZZI

Legend

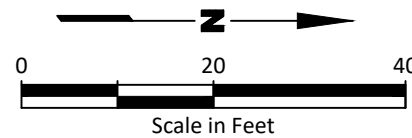
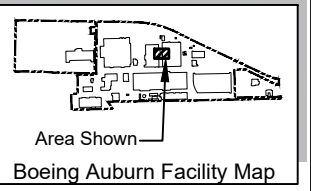
- AGW016 ● Monitoring Well Location
- AGR07HA1 ⊕ Pre-FS Soil Grab Sample Location (Locations are Approximate)
- 1 Scrubber
- 17-07 Current Building and Number
- (B) (11) Building 17-07 Column Designations
- A A' Cross Section Location

Note

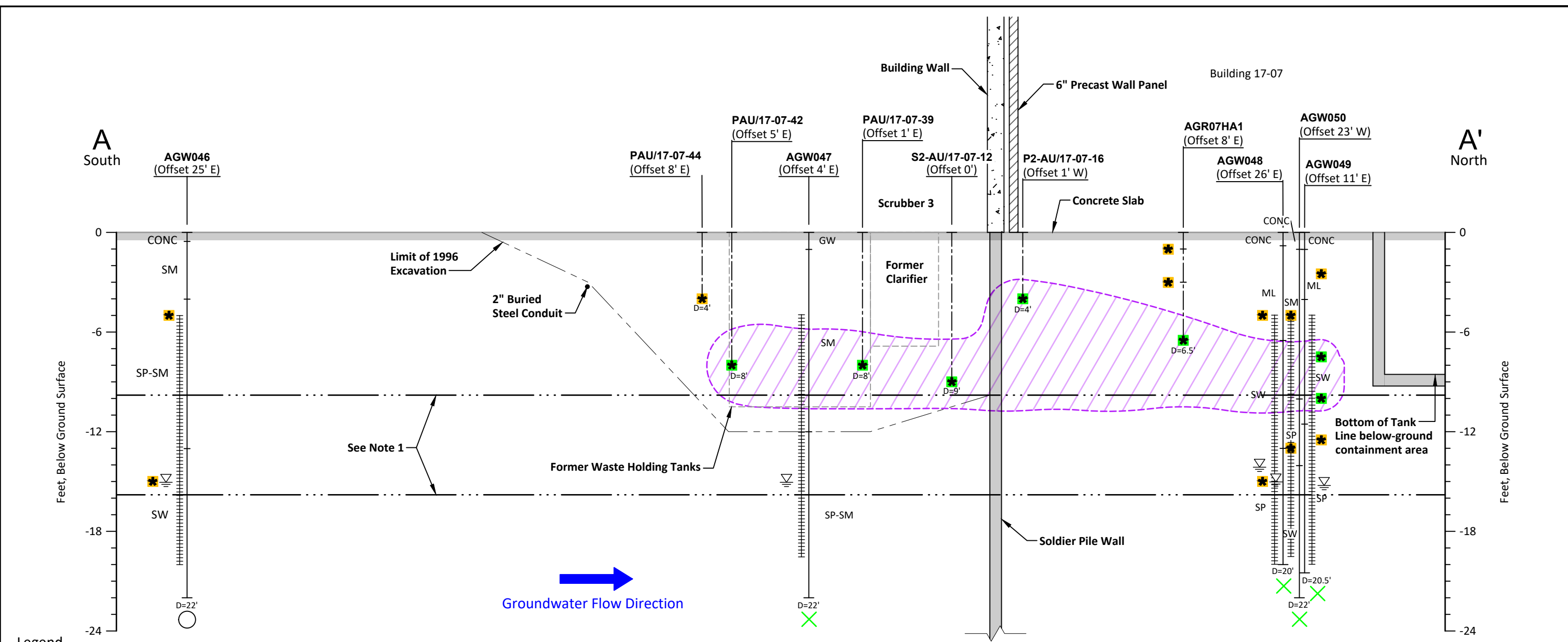
1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Sources: AGI Technologies, Figure 4, 1996; ©Bing, 2019



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Legend

AGW046 (Offset: 25' E) — Exploration Designation

— Top of Exploration

Grab Sample

- * = Soil sample (Analytes = Not detected)
- * = Soil sample (Analytes = Detected, below pCULs)
- * = Soil sample (Analytes = Detected, above pCULs)

SM — Unified Soil Classification Symbol (USCS)

— Water Level (At Time of Drilling)

— Screen Interval / Sampling Interval

D=22' — Depth of Exploration (feet)

- = Analytes not detected in groundwater
- + = Analytes detected below pCULs in groundwater
- × = Analytes detected above pCULs in groundwater
- ▨ = Analytes detected above pCULs in soil

AOC A-09	Groundwater pCUL (µg/L)	Soil pCUL (mg/kg)
Cadmium	5.0	0.69
Copper	640	280
Cyanide	10	2,200

USCS Soil Legend

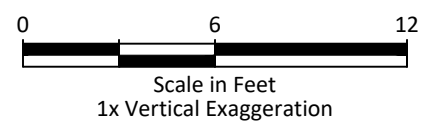
- Conc = Concrete
- GW = Well-graded gravel; gravel/sand mixture(s); little or no fines
- ML = Silt
- SM = Silty sand; sand/silt mixture(s)
- SP = Poorly graded sand; gravelly sand; little or no fines
- SW = Well-graded sand; gravelly sand; little or no fines

Acronyms / Abbreviations

- AOC = area of concern
- mg/kg = milligrams per kilogram
- pCUL = proposed cleanup level
- µg/L = micrograms per liter

Notes

1. Lines indicated show the maximum and minimum water level elevation measured from AGW047-AGW050 from August 2004 to December 2018.
2. All borings and wells shown on this figure were completed in July, August, and September 1996.
3. The limits of the 1996 excavation may not extend to 12 feet below ground surface at all locations. Soil samples shown were collected from soil remaining in place.
4. Green, orange, and black symbols beneath monitoring wells reflect the most recent data.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



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Legend

- AGW016 ● Monitoring Well Location
- AGR07HA1 ⊕ Pre-FS Soil Grab Sample Location (Locations are Approximate)
- No highlighting = No detection
- Orange = Detection below groundwater pCULs
- Green = Exceedance of groundwater pCULs
- 1 Scrubber
- 17-07 Current Building and Number
- B 11 Building 17-07 Column Designations

AOC A-09	Groundwater pCUL (µg/L)
Cadmium	5.0
Copper	640
Free or Total Cyanide	10

Notes

1. All analytes are shown in micrograms per liter (µg/L).
2. The most recent data for each constituent is shown except cyanide which shows June 2018 results when both free and total cyanide were collected. Since the pCUL can be compared to either the free or total cyanide values, the most appropriate value was selected for each well.
3. All monitoring wells on this figure are screened in the shallow zone.
4. Groundwater samples collected from AGW278 were never analyzed for metals.
5. In the data boxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL).
6. Nickel is not included as there are no exceedances of the pCUL in groundwater at Area of Concern (AOC) A-09 during the most recent groundwater sampling event.
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

ND = non-detect, the analyte was analyzed for, but was not detected
 NE = no exceedance, one or more analytes were detected but do not exceed pCULs

AGW047	Most Recent	Date
Cadmium	ND	12/2004
Copper	NE	12/2004
Free Cyanide	ND	6/2018

AGW046	Most Recent	Date
Cadmium	ND	12/2004
Copper	ND	12/2004
Total Cyanide	ND	9/1996

AGW037	Most Recent	Date
Cadmium	ND	12/2004
Copper	ND	12/2004
Total Cyanide	ND	6/2018

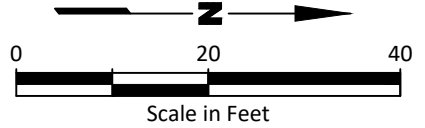
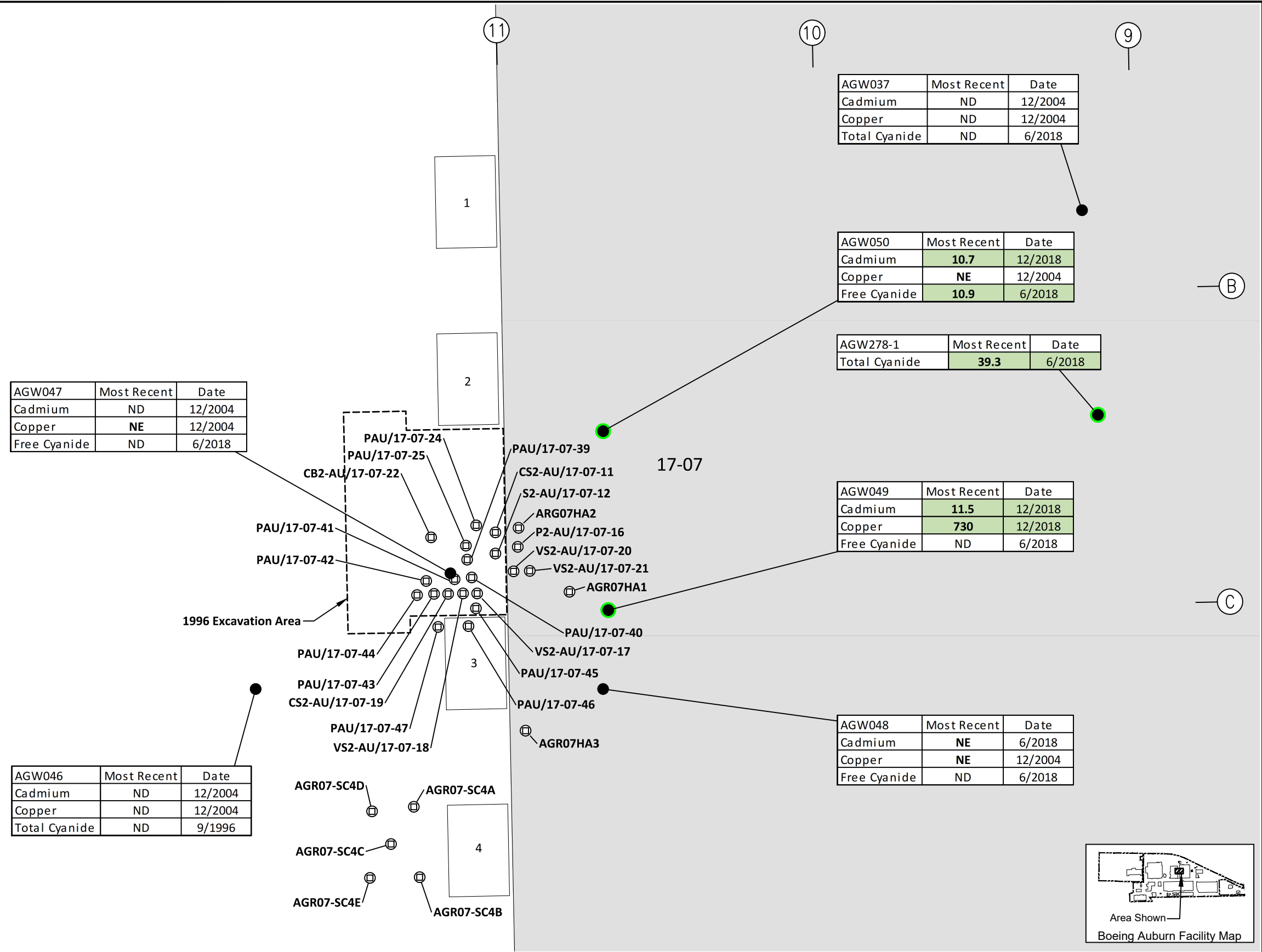
AGW050	Most Recent	Date
Cadmium	10.7	12/2018
Copper	NE	12/2004
Free Cyanide	10.9	6/2018

AGW278-1	Most Recent	Date
Total Cyanide	39.3	6/2018

AGW049	Most Recent	Date
Cadmium	11.5	12/2018
Copper	730	12/2018
Free Cyanide	ND	6/2018

AGW048	Most Recent	Date
Cadmium	NE	6/2018
Copper	NE	12/2004
Free Cyanide	ND	6/2018

17-10

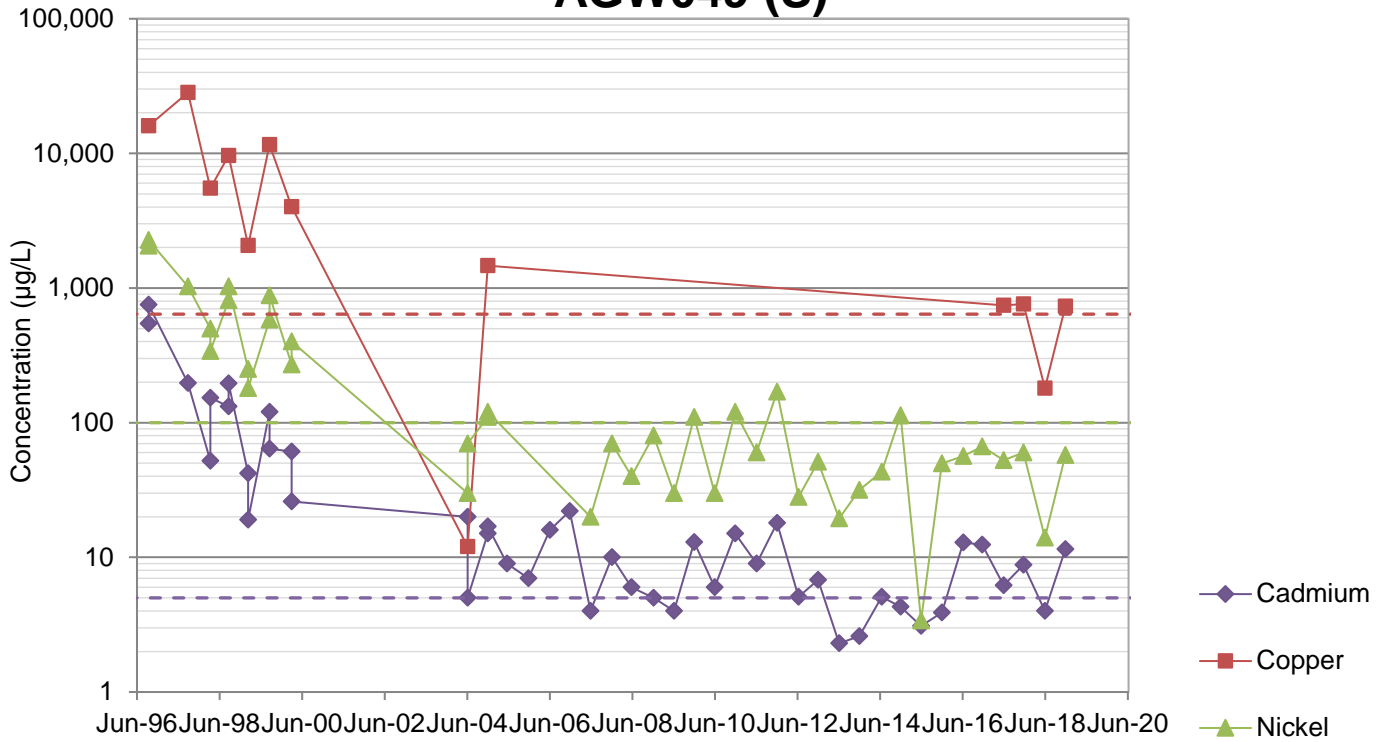


Sources: AGI Technologies, Figure 4, 1996

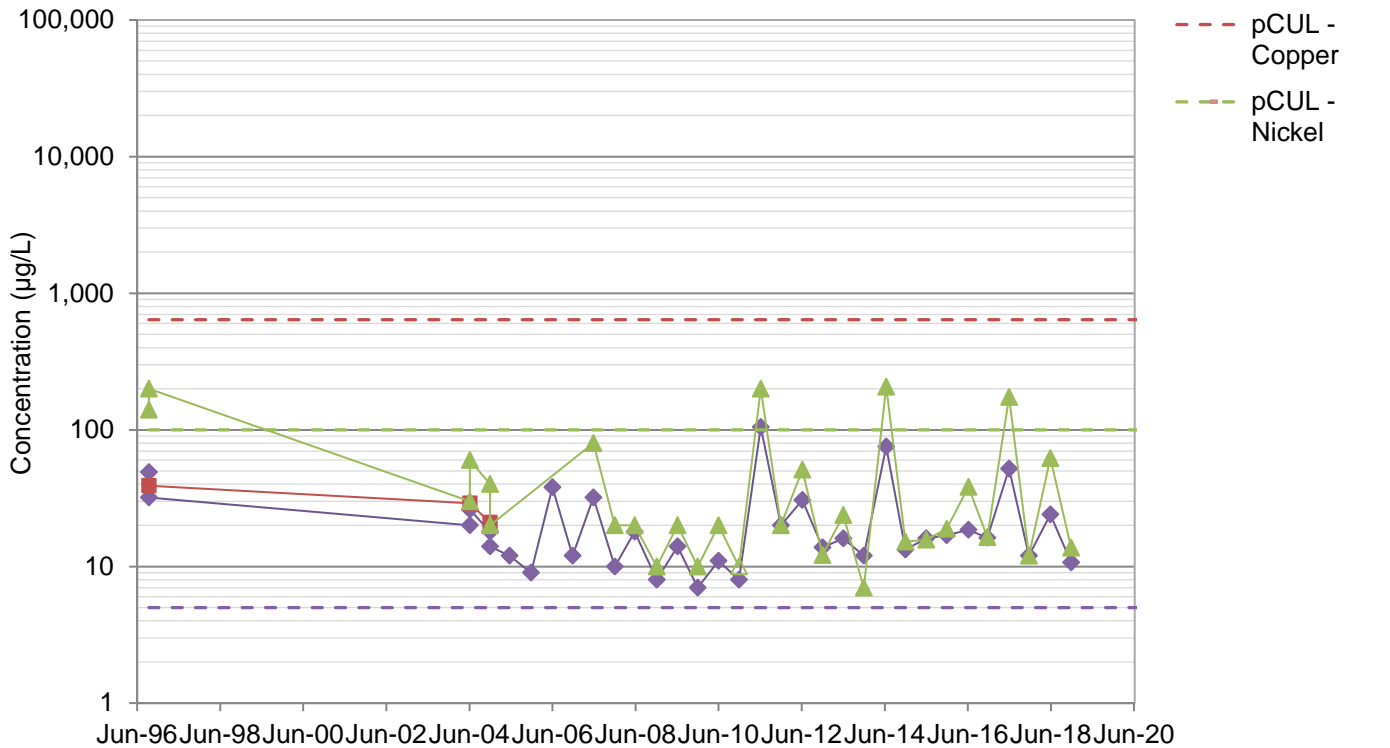
Boeing Auburn Feasibility Study Auburn, Washington	AOC A-09: Building 17-07 Acid Scrubber Drain Line Leak Groundwater Results	Figure 4-9
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AGW049 (S)



AGW050 (S)



Open markers on plots denote non-detect values; values shown represent analytical reporting limit.

µg/L = micrograms per liter

pCUL = proposed cleanup level

10/30/19 Y:\025164\RF\FS\Figures\F0 4-10 TS Plot_needs PC review.docx






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Auburn, Washington

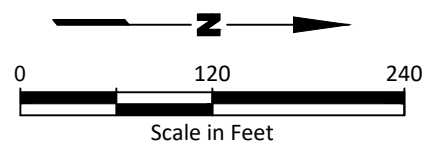
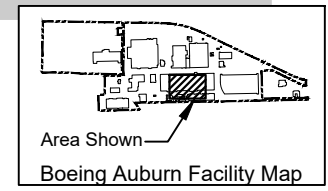
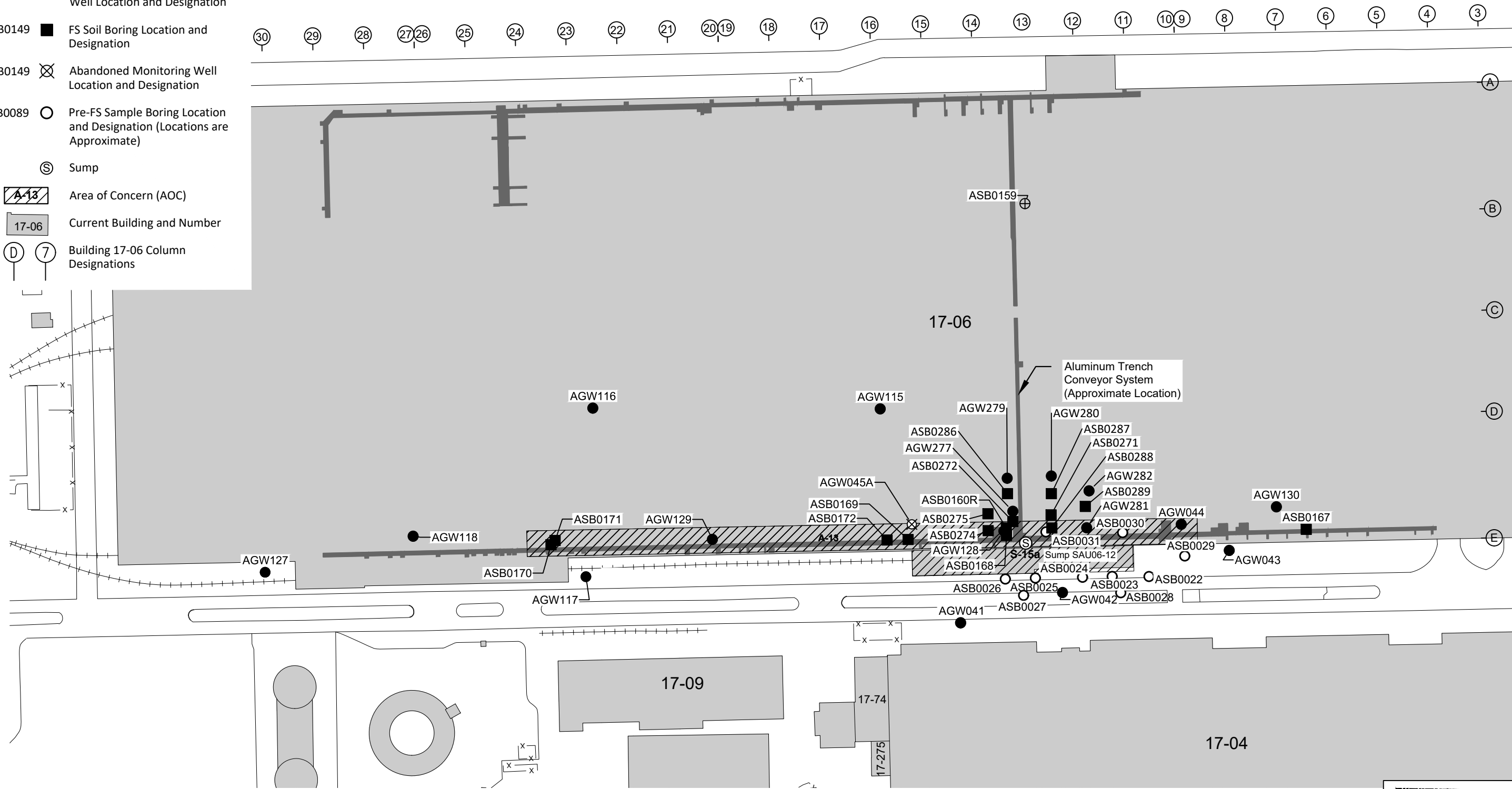
**AOC A-09 Metals Concentrations
Time Series Plots**

Figure
4-10

Boeing Remedial Investigation Report | G:\Projects\025164\170\112\F5 Report\AOC A-13\F04-11 A-13 RI.dwg (A) "Figure 4-11" 10/29/2019

Legend

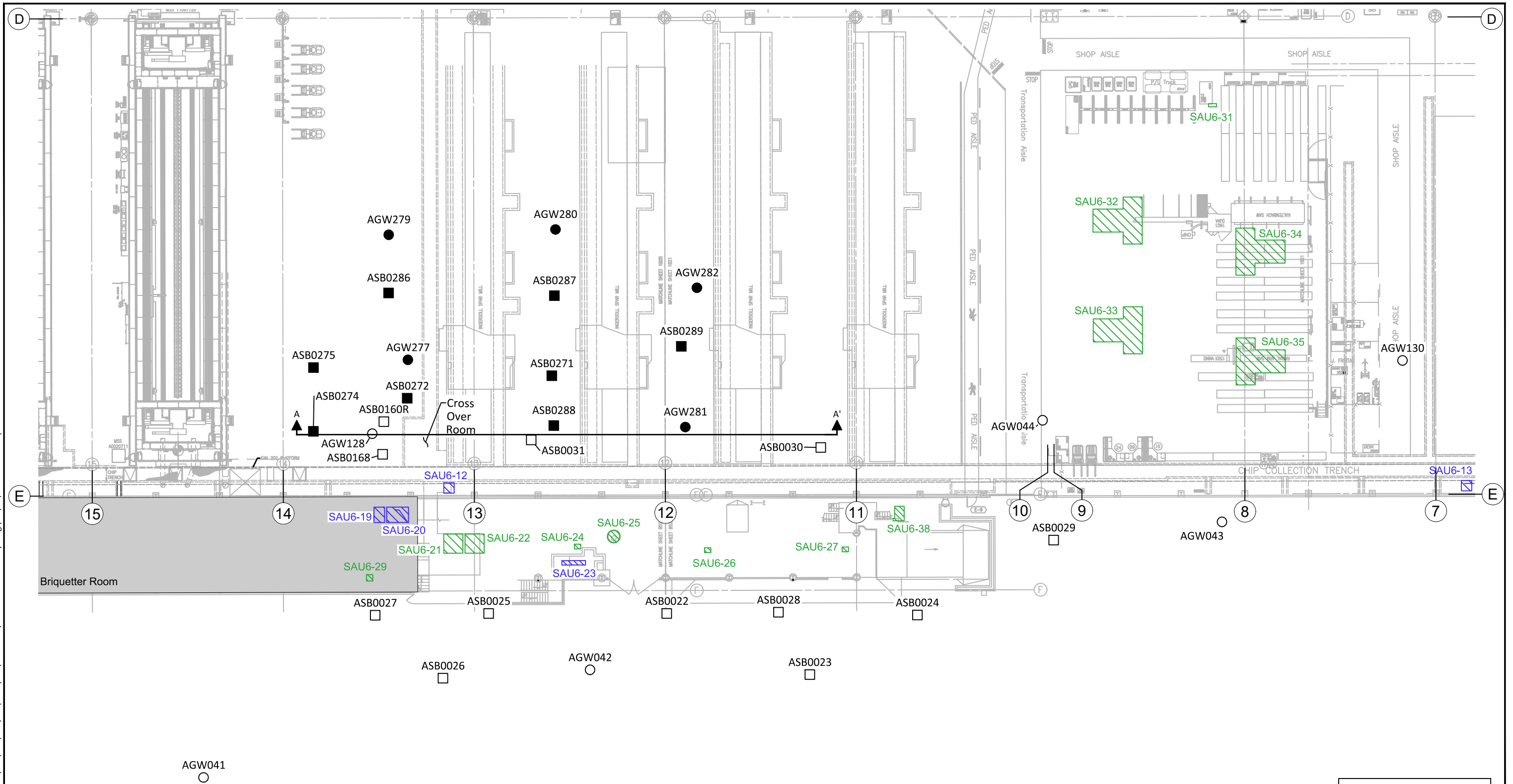
- AGW016 ● Feasibility Study (FS) Monitoring Well Location and Designation
- ASB0149 ■ FS Soil Boring Location and Designation
- ASB0149 ⊗ Abandoned Monitoring Well Location and Designation
- ASB0089 ○ Pre-FS Sample Boring Location and Designation (Locations are Approximate)
- Ⓢ Sump
-  A-13 Area of Concern (AOC)
-  17-06 Current Building and Number
-  Building 17-06 Column Designations



Base map source: Geomatrix 2003

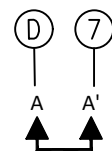


Boeing Auburn Feasibility Study Auburn, Washington	AOC A-13: Petroleum Hydrocarbon Contamination on East Side of Building 17-06 Exploration Summary	Figure 4-11
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Legend

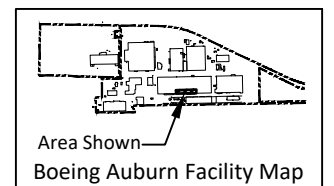
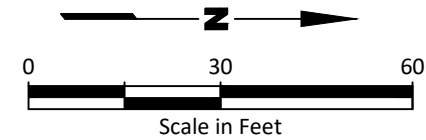
- AGW277 ● FS Monitoring Well Location
- ASB0274 ■ FS Boring Location
- AGW128 ○ Pre-FS Monitoring Well Location
- ASB0031 □ Pre-FS Boring Location
- SAU6-34 ■ Chip runoff Sump Location and Designation
- SAU6-26 ■ Water Sump Location and Designation (Cooling Water, Storm/Rain Water, Condensate)
- (D) (7) Building 17 06 Column Designations



Cross Section Alignment, See Figure 4-13

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Area Shown
Boeing Auburn Facility Map

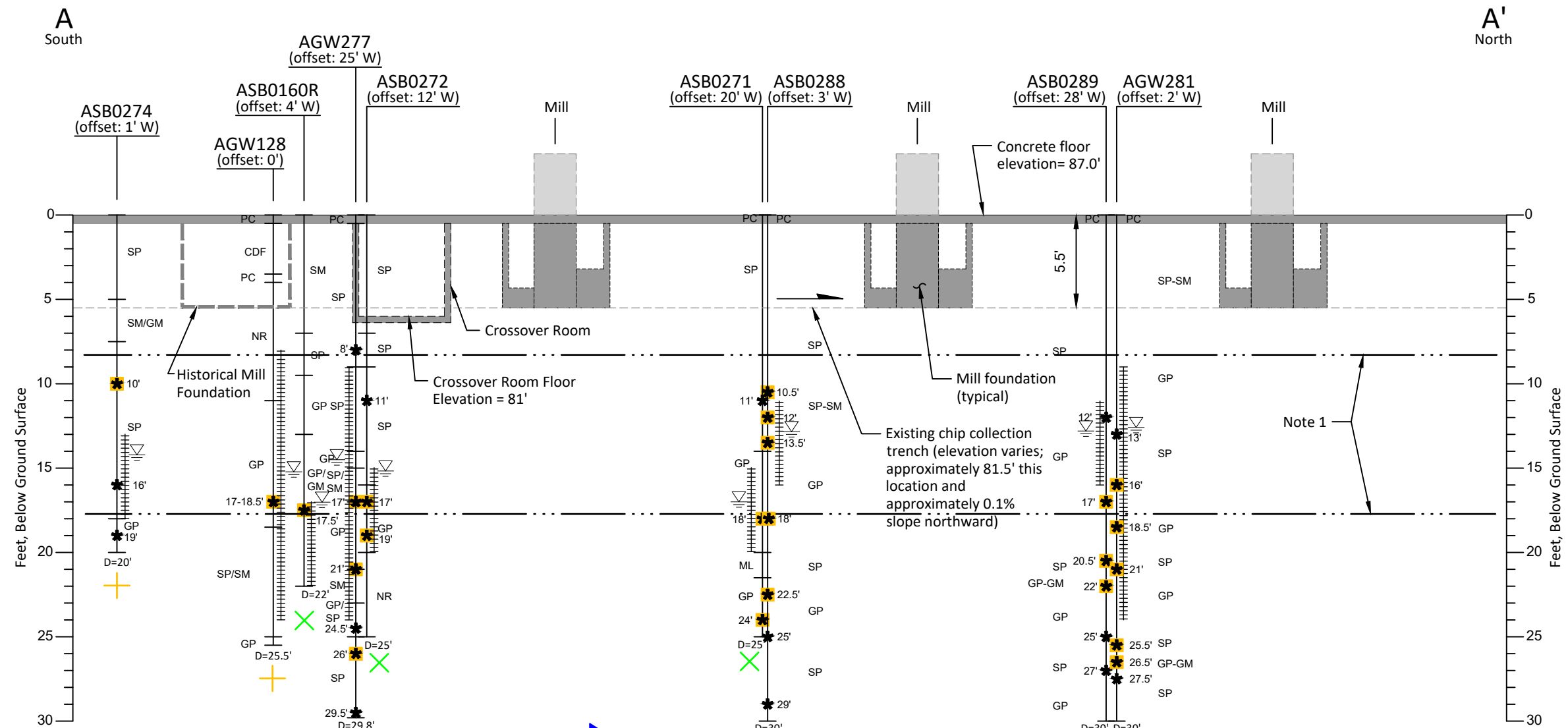
Base map source: Geomatrix 2003a

Boeing Auburn
Feasibility Study
Auburn, Washington

**AOC A-13: Petroleum Hydrocarbon
Contamination on East Side of Building
17-06 Focused Exploration Summary**

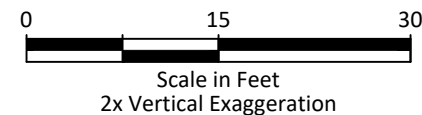
Figure
4-12

Landau Associates | G:\Projects\025\164\170\112\FS Report\AOC A-13\F04-13 A-13 CrossSection.dwg | 10/29/2019 11:02 AM | JVALLUZZI



Legend

- ASB0274 (offset: 1' W) — Exploration Designation
- Top of Exploration
- * = Soil sample (Analytes = Not detected)
- * = Soil sample (Analytes = Detected, below pCULs)
- * = Soil sample (Analytes = Detected, above pCULs)
- SM — Unified Soil Classification Symbol (USCS)
- Water Level (At Time of Drilling)
- Screen Interval
- D=35 — Depth of Exploration (feet)
- = Analytes not detected in groundwater
- + = Analytes detected below pCULs in groundwater
- x = Analytes detected above pCULs in groundwater



AOC A-13	Groundwater pCUL (µg/L)	Soil pCUL (mg/kg)
TPH	20,000	71,000

USCS Soil Legend

- CDF = Control-density fill
- GM = Silty gravel; gravel/sand/silt mixture(s)
- GP = Poorly graded gravel; gravel/sand mixture(s); little or no fines
- GW = Well-graded gravel; gravel/sand mixture(s); little or no fines
- ML = Silt
- NR = No recovery
- PC = Portland cement pavement
- SM = Silty sand; sand/silt mixture(s)
- SP = Poorly graded sand; gravelly sand; little or no fines

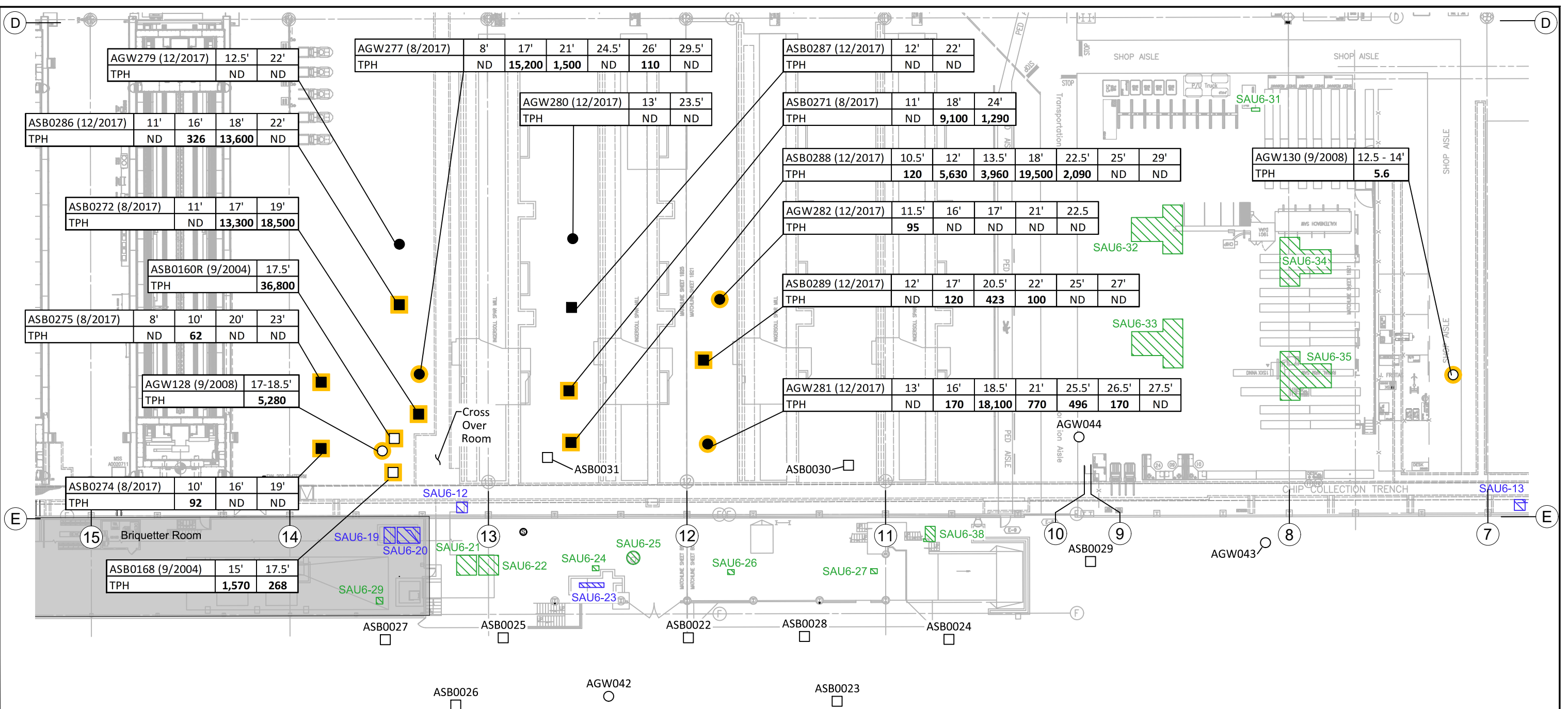
Acronyms / Abbreviations

- AOC = area of concern
- mg/kg = milligrams per kilogram
- pCUL = proposed cleanup level
- TPH = total petroleum hydrocarbons
- µg/L = micrograms per liter

Notes

1. Lines indicated show the maximum and minimum water level elevation measured from AGW128 from September 2008 to December 2018.
2. Boring ASB0160R was completed in September 2004. Well AGW128 was completed in September 2008. Well AGW277 and borings ASB0271, ASB0272, and ASB0274 were completed in August 2017. Well AGW281 and borings ASB0288 and ASB0289 were completed in December 2017.
3. Green, orange, and black symbols beneath monitoring wells reflect the most recent data.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Landau Associates | G:\Projects\025\164\170\112\Fs Report\AOC A-13\F04-14 A-13 Soil Results.dwg | 10/29/2019 11:06 AM | JVALLUZZI

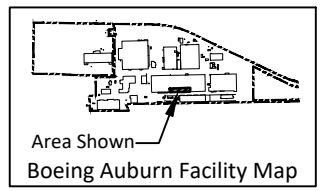
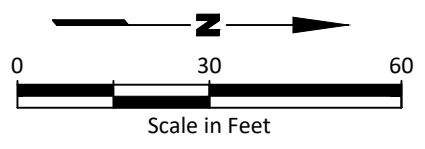


Legend

- AGW277 ● FS Monitoring Well Location
- ASB0274 ■ FS Boring Location
- AGW128 ○ Pre-FS Monitoring Well Location
- ASB0031 □ Pre-FS Boring Location
- Black = No detection
- Orange = Detection below pCUL
- Green = Exceedance of pCUL
- SAU6-34 □ Chip runoff Sump Location and Designation
- SAU6-26 □ Water Sump Location and Designation (Cooling Water, Storm/Rain Water, Condensate)
- Building 17-06 Column Designations

Notes

1. All analytes are shown in milligrams per kilogram (mg/kg).
 2. Total petroleum hydrocarbons (TPH) are the sum of diesel-range and oil-range petroleum hydrocarbon detections.
 3. In the databoxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL).
 4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.
- ND = non-detect, the analyte was analyzed for, but was not detected



Base map source: Geomatrix 2003a

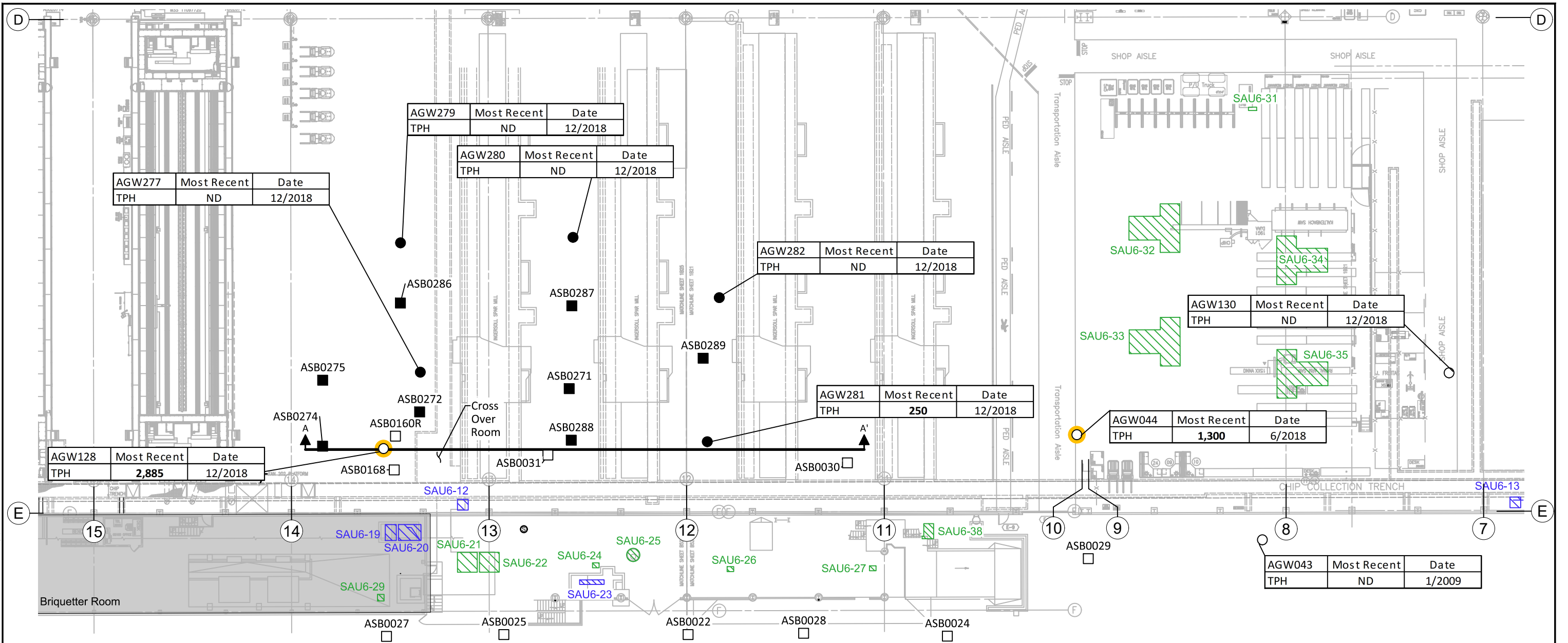
AOC A-13	Soil pCUL (mg/kg)
TPH	71,000

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Feasibility Study
Auburn, Washington

**AOC A-13: Petroleum Hydrocarbon
Contamination on East Side of
Building 17-06 Soil Results**

Figure
4-14



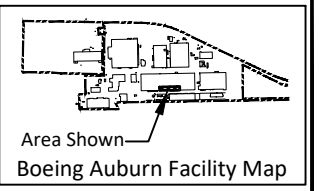
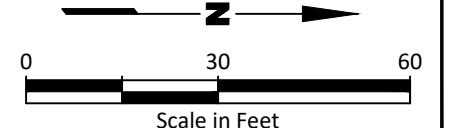


Notes

- All analytes are shown in micrograms per liter (µg/L).
- For monitoring wells, the most recent data is shown.
- All monitoring wells on this figure are screened across the water table.
- Total petroleum hydrocarbons (TPH) are the sum of diesel-range and oil-range petroleum hydrocarbon detections.
- In the databoxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL).
- Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

ND = non-detect, the analyte was analyzed for, but was not detected

Base map source: Geomatrix 2003a



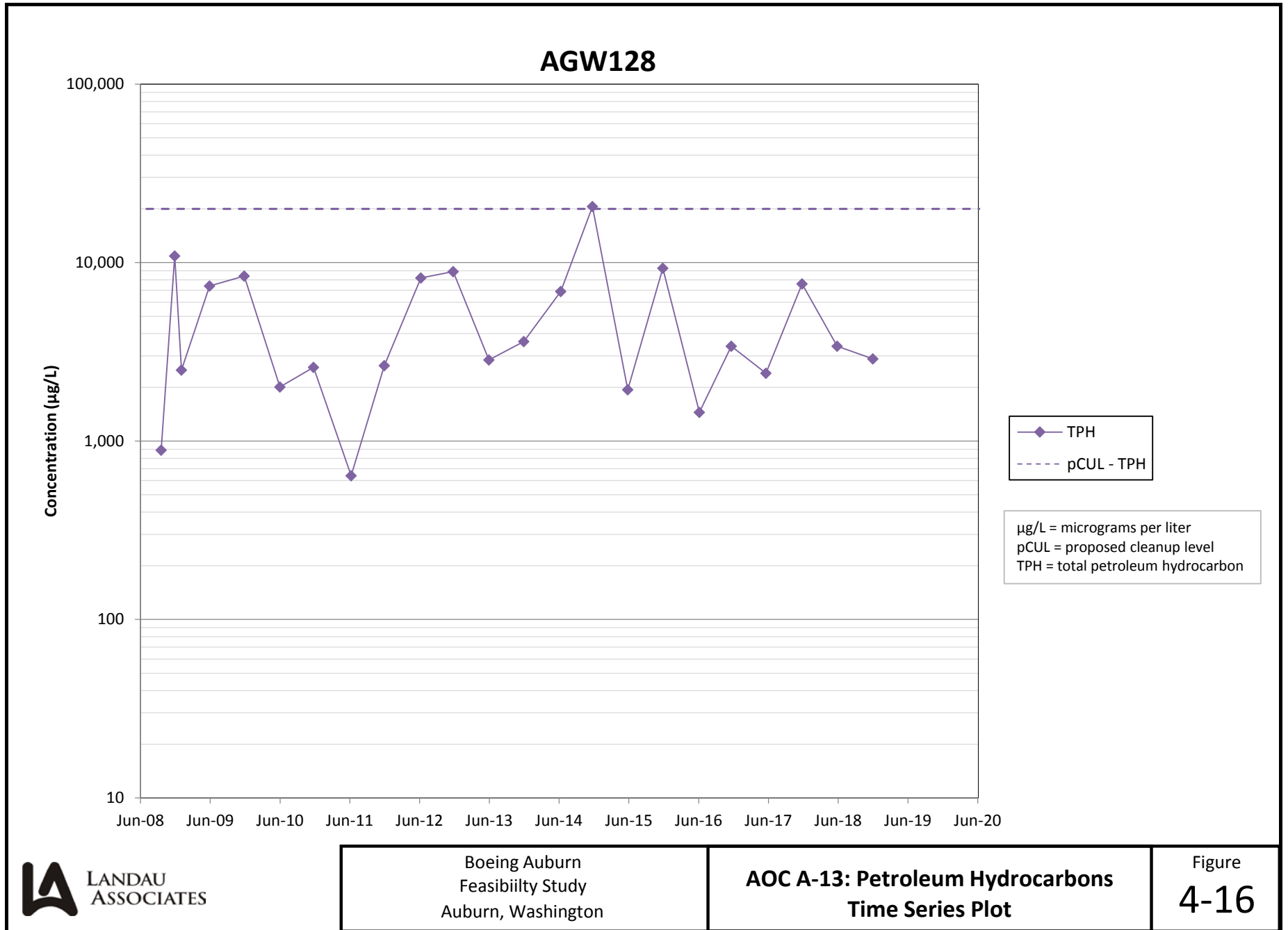
AOC A-13	Groundwater pCUL (µg/L)
TPH	20,000

Legend

- AGW277 ● FS Monitoring Well Location
- ASB0274 ■ FS Boring Location
- AGW128 ○ Pre-FS Monitoring Well Location
- ASB0031 □ Pre-FS Boring Location
- Black = No detection
- Orange = Detection below pCUL
- SAU6-34 ■ Chip runoff Sump Location and Designation
- SAU6-26 ■ Water Sump Location and Designation (Cooling Water, Storm/Rain Water, Condensate)
- Building 17 06 Column Designations
- | | |
|---|----|
| D | 7 |
| A | A' |

 Cross Section Alignment, See Figure 4-13

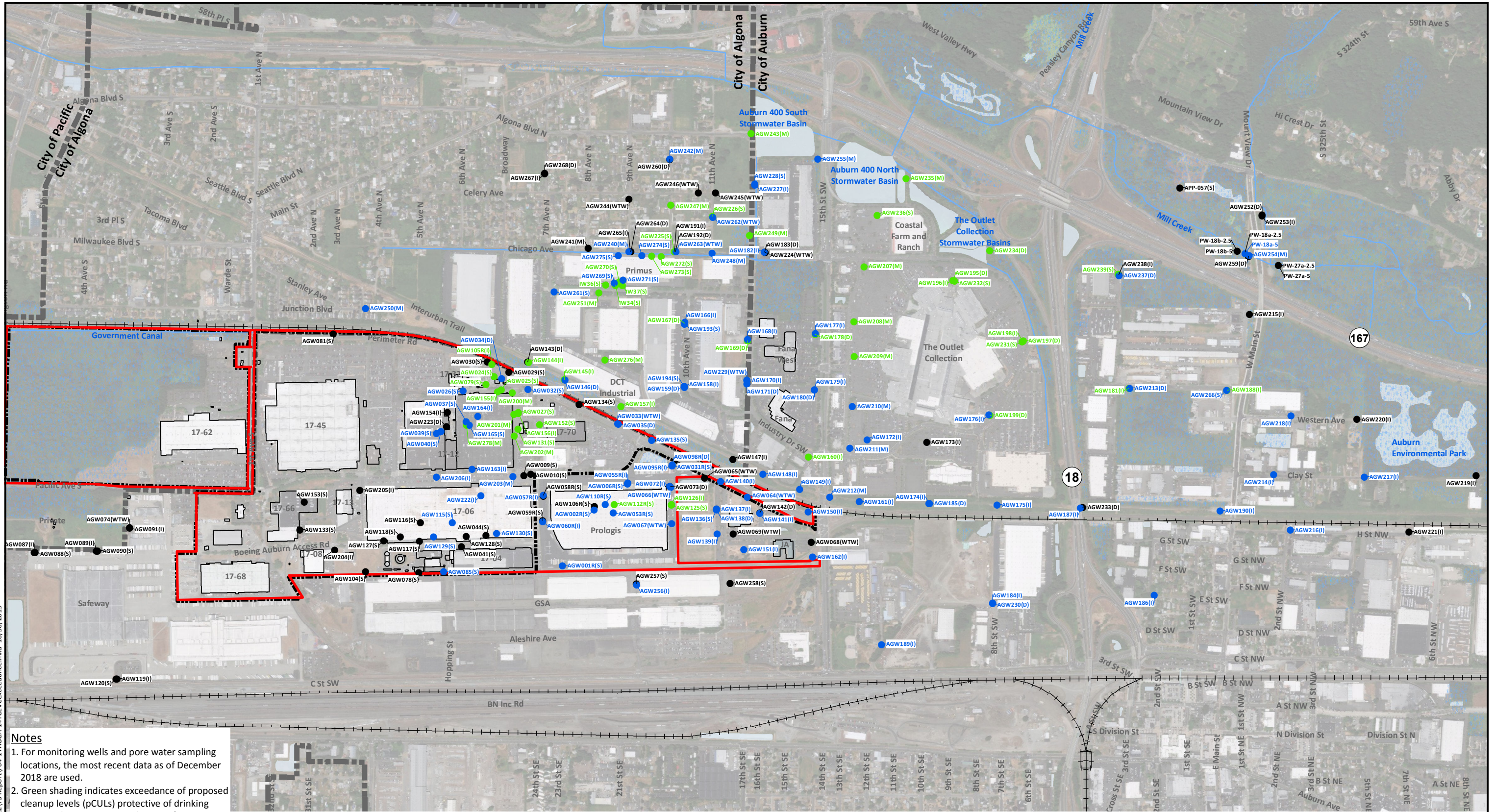




Boeing Auburn
Feasibility Study
Auburn, Washington

**AOC A-13: Petroleum Hydrocarbons
Time Series Plot**

Figure
4-16



- Notes**
1. For monitoring wells and pore water sampling locations, the most recent data as of December 2018 are used.
 2. Green shading indicates exceedance of proposed cleanup levels (pCULs) protective of drinking water and concentrations above surface water quality standards (SWQS) in groundwater.
 3. Exceedances shown at multilevel wells reflect an exceedance in any channel.
 4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- No Exceedance
- Exceedance of Groundwater pCUL (Protective of Drinking Water) (TCE > 4 µg/L and/or VC > 0.29 µg/L)
- Concentrations above SWQS in Groundwater (TCE > 0.3 µg/L and/or VC > 0.2 µg/L)
- Facility Boundary
- City Limits
- Boeing Property
- Wetland Areas
- Water Bodies
- Waterways

0 1,000 2,000
Scale in Feet

Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2012

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Site-Wide Groundwater TCE and VC Results	Figure 4-17
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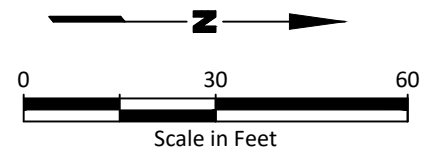
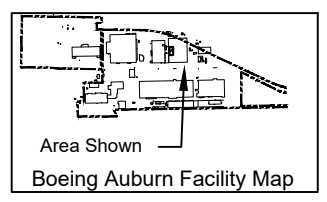
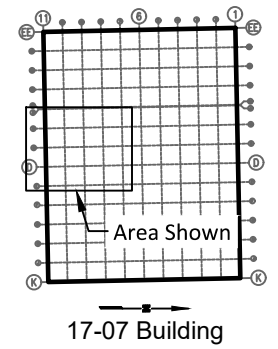
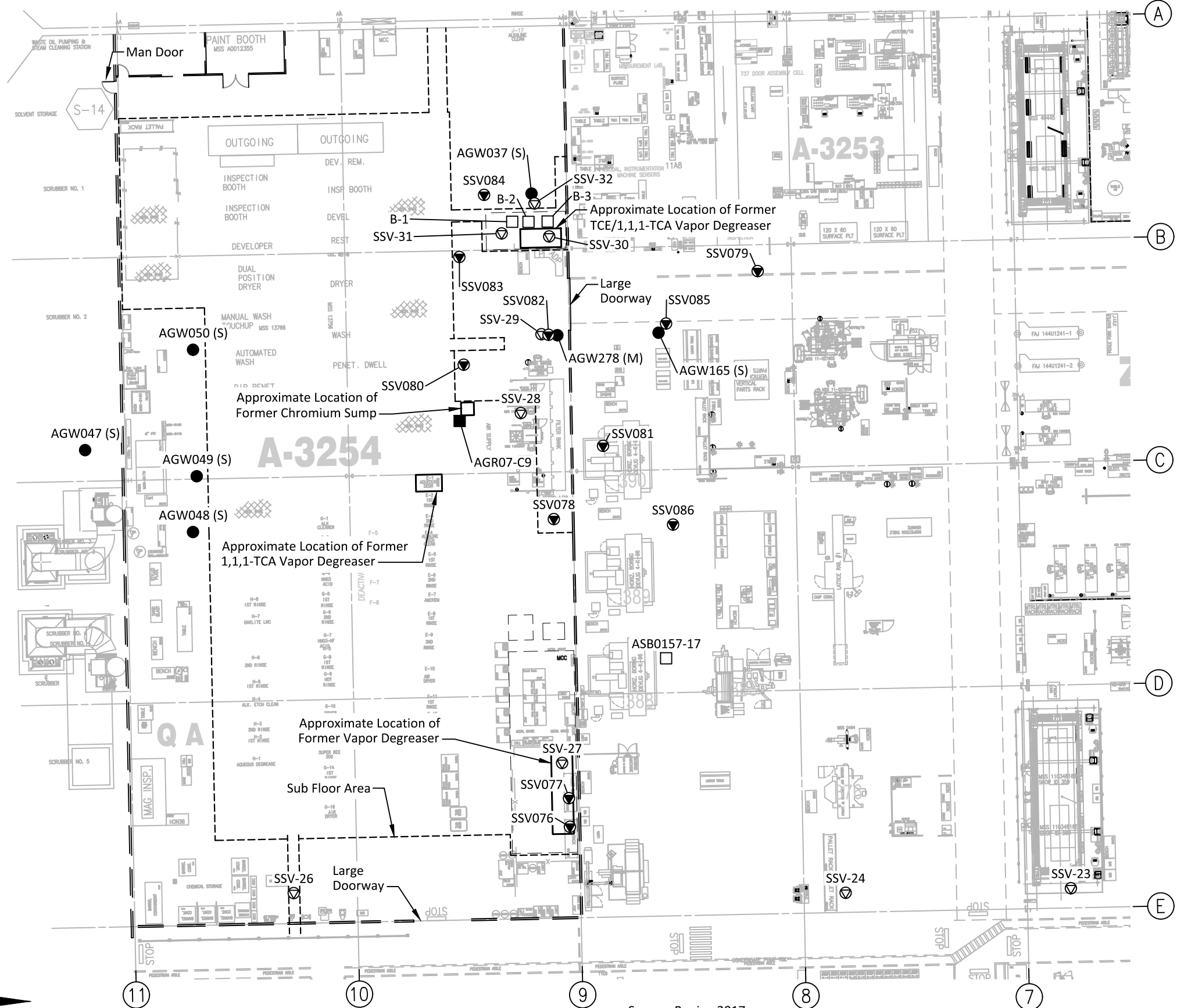
Landau Associates | G:\Projects\025\164\170\112\Fs Report\AOC A-14\F04-18 A-14 17-07 Summary.dwg | 10/29/2019 11:28 AM

Legend

- AGW047 ● Monitoring Well Location
- AGR07-C9 ■ FS Boring Location
- B-1 □ Pre-FS Boring Location
- SSV084 ▼ FS Sub-slab Vapor Sampling Location
- SSV-31 ○ Pre-FS Sub-slab Vapor Sampling Location
- ==== Tank Line Area
- ① ⑦ Building 17-07 Column Designations

Note

1. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. (S) = shallow zone, (I) = intermediate zone, (D) = deep zone, (M) = multi-level well; screens in multiple groundwater zones.



Source: Boeing 2017

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Building 17-07 Release Area Exploration Summary	Figure 4-18
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Legend

- AGW047 ● Monitoring Well Location
- AGR07-C9 ■ FS Boring Location
- B1 □ Pre-FS Boring Location
- SSV084 ● FS Sub-slab Soil Gas Vapor Sampling Location
- SSV-31 ● Pre-FS Sub-slab Soil Gas Vapor Sampling Location

- No highlighting = No detection
- Orange = Detection below pCUL
- Green = Exceedance of pCUL

Tank Line Area

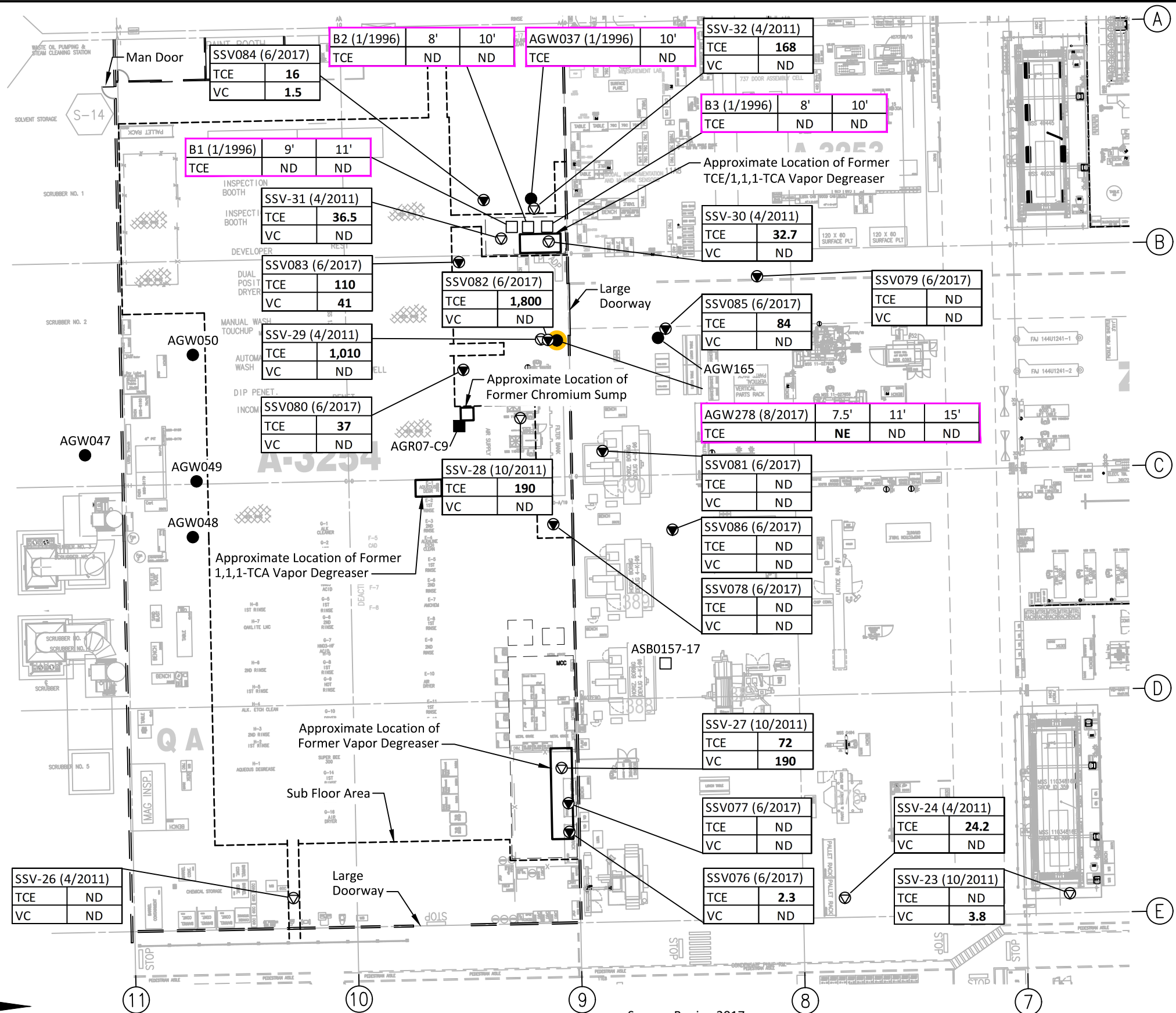
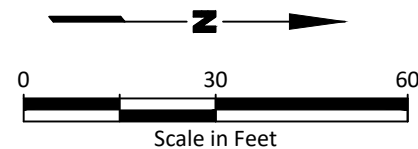
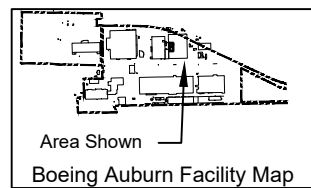
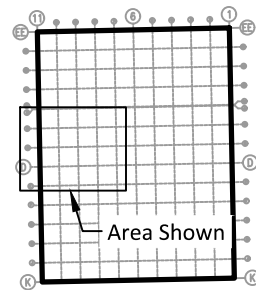
Building 17-07 Column Designations

AOC A-14	Soil pCUL (mg/kg)
TCE	0.025

Notes

1. Soil gas results are identified with black data boxes. Soil gas data is shown in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
2. Soil results are identified with purple data boxes. Soil data is shown in milligrams per kilogram (mg/kg).
3. In the databoxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL).
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

ND = non-detect, the analyte was analyzed for, but was not detected



Landau Associates | G:\Projects\025\164\170\112\FS Report\AOC A-14\F04-19 A-14 17-07 Soil & SSV.dwg | 10/29/2019 2:00 PM

Source: Boeing 2017

Legend

- AGW047 ● Monitoring Well Location
- AGR07-C9 ■ FS Boring Location
- B-1 □ Pre-FS Boring Location
- SSV084 ● FS Sub-slab Vapor Sampling Location
- SSV-31 ● Pre-FS Sub-slab Vapor Sampling Location

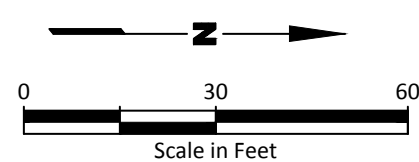
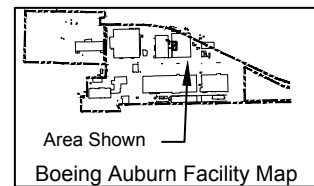
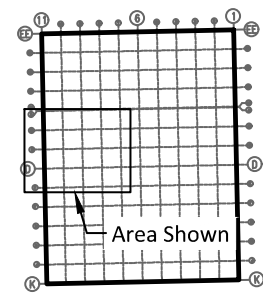
- No highlighting = No detection
- Green = Exceedance of Groundwater pCUL (protective of drinking water) (TCE > 4 µg/L and/or VC > 0.29 µg/L)
- Blue = Concentrations above SWQS in Groundwater (TCE > 0.3 µg/L and/or VC > 0.2 µg/L)

- Tank Line Area
- Ⓧ Ⓨ Building 17-07 Column Designations

Notes

1. All analytes are shown in micrograms per liter (µg/L).
2. For monitoring wells, the most recent data are shown.
3. In the databoxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL) and concentrations above surface water quality standards (SWQS) in groundwater. Blue shading indicates concentrations above SWQS in groundwater.
4. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. (S) = shallow zone, (I) = intermediate zone, (D) = deep zone, (M) = multi-level well; screens in multiple groundwater zones.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

ND = non-detect, the analyte was analyzed for, but was not detected



AGW050 (S)	Most Recent	Date
TCE	1.1	9/2010
VC	ND	9/2010

AGW047 (S)	Most Recent	Date
TCE	1	9/2010
VC	ND	9/2010

AGW049 (S)	Most Recent	Date
TCE	1.6	9/2010
VC	ND	9/2010

AGW048 (S)	Most Recent	Date
TCE	1.1	9/2010
VC	ND	9/2010

AGR07-C9 (6/2017)	Most Recent	Date
TCE	1.1	
VC	0.18	

AGW037 (S)	Most Recent	Date
TCE	2.12	12/2018
VC	0.134	12/2018

AGW165 (S)	Most Recent	Date
TCE	2.07	12/2018
VC	0.169	12/2018

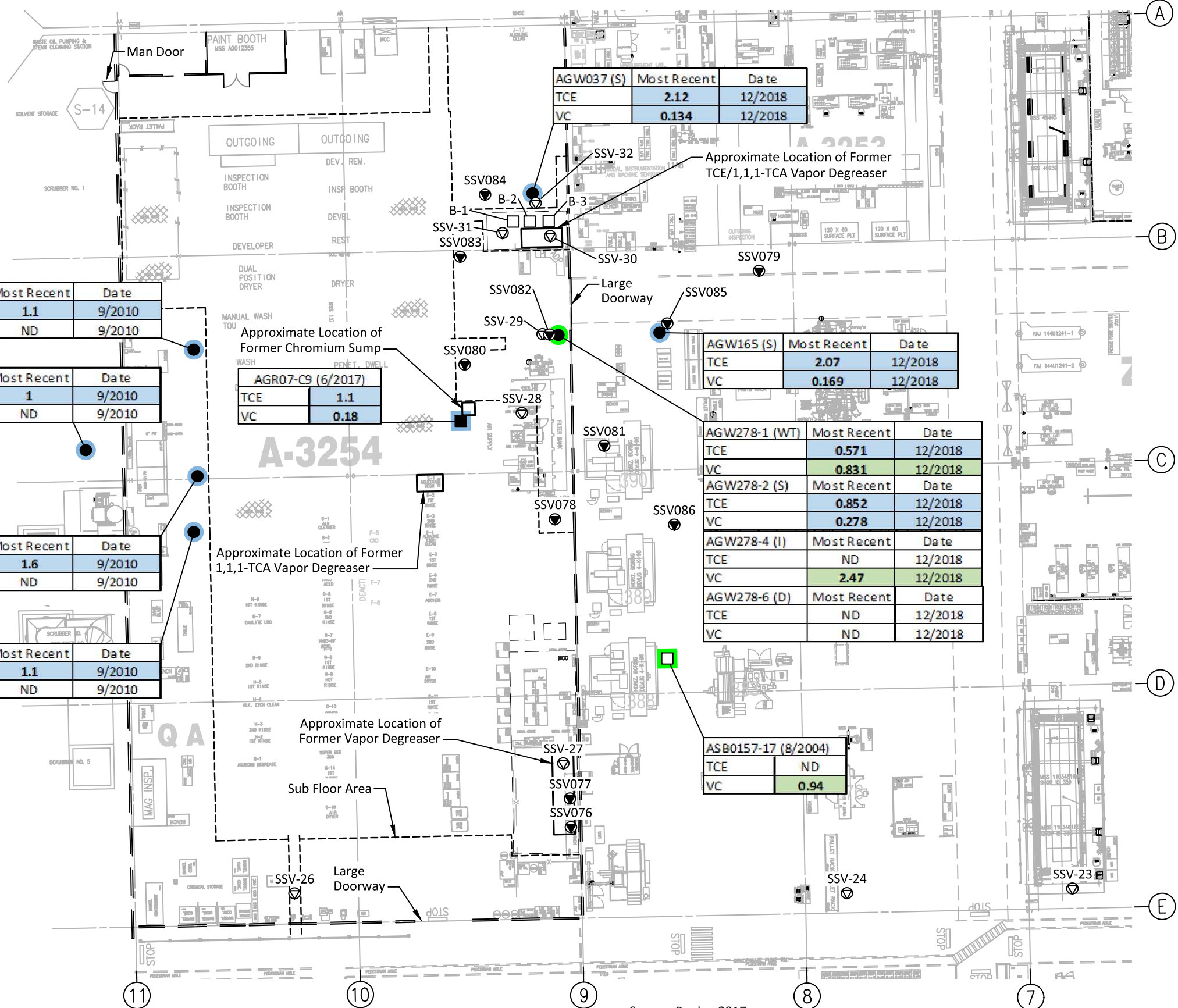
AGW278-1 (WT)	Most Recent	Date
TCE	0.571	12/2018
VC	0.831	12/2018

AGW278-2 (S)	Most Recent	Date
TCE	0.852	12/2018
VC	0.278	12/2018

AGW278-4 (I)	Most Recent	Date
TCE	ND	12/2018
VC	2.47	12/2018

AGW278-6 (D)	Most Recent	Date
TCE	ND	12/2018
VC	ND	12/2018

ASB0157-17 (8/2004)	Most Recent	Date
TCE	ND	
VC	0.94	



Source: Boeing 2017

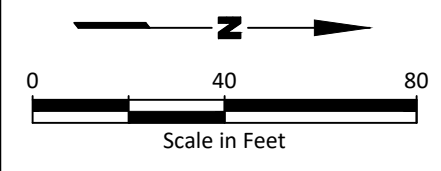
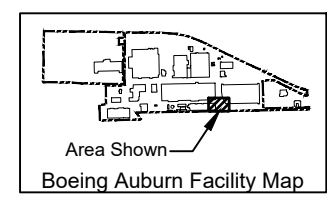
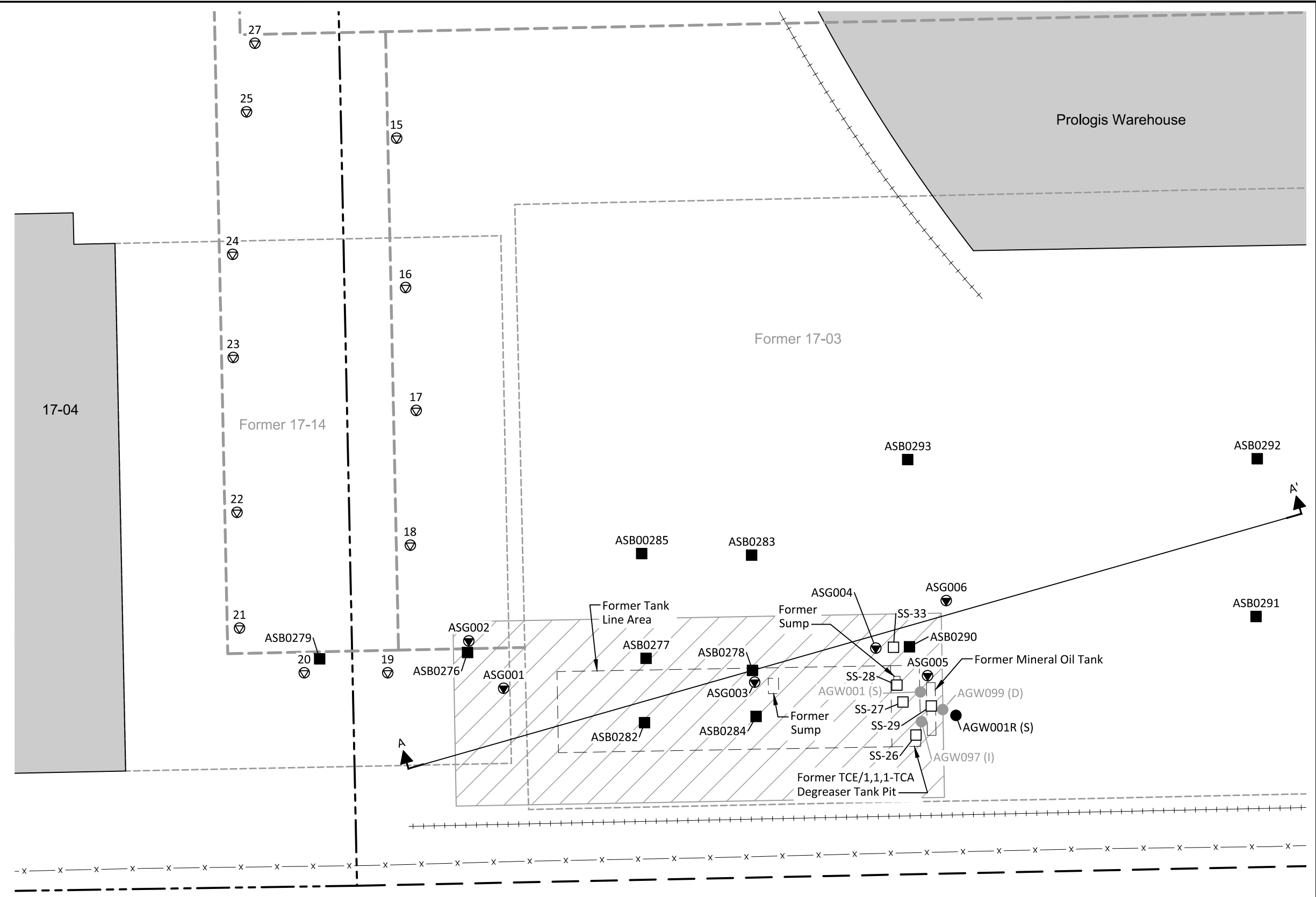
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- Legend**
- ASB0280 ■ FS Boring Location
 - SS-33 □ Pre-FS Boring Location
 - ASG001 ● FS Soil Gas Sampling Location
 - 18 ○ Pre-FS Soil Gas Location
 - AGW001R (S) ● Monitoring Well Location
 - AGW001 (S) ● Decommissioned Well Location
 - 17-07 ■ Current Building and Number
 - 17-14 □ Former Building and Number
 - ▨ Former Building 17-03 Release Area
 - - - Boeing Property Line
 - - - Adjacent Property Line
 - x - Existing Fence Line
 - + - Existing Railroad Track
 - - - Chrome Waste Line
 - ▲ - - - Cross Section Location

- Note**
1. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. (S) = shallow zone, (I) = intermediate zone, (D) = deep zone, (M) = multi-level well; screens in multiple groundwater zones.



Base map source: Geomatrix 2003; Kennedy Jenks

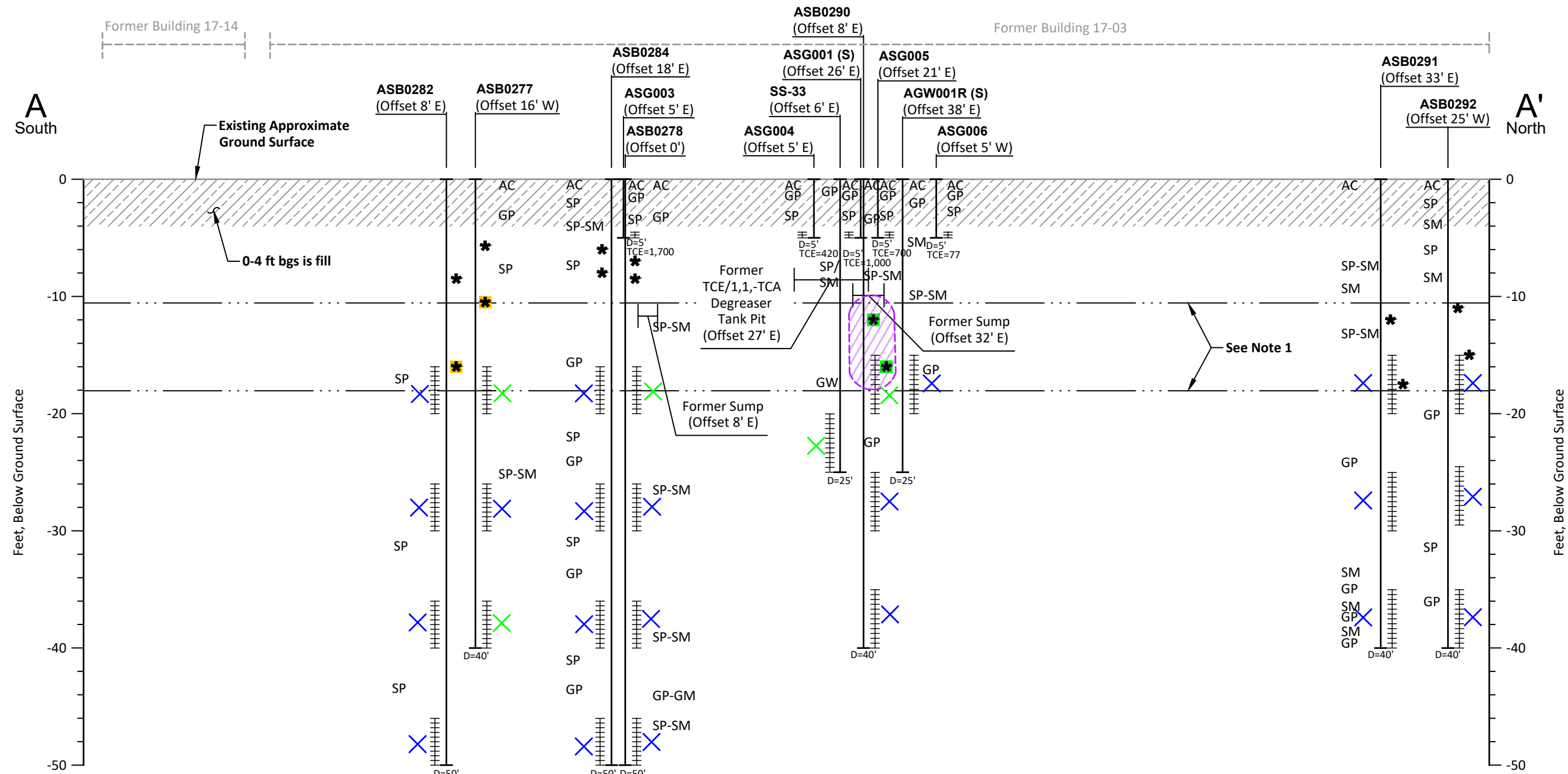


Boeing Auburn
Feasibility Study
Auburn, Washington

**AOC A-14: Former Building 17-03
Release Area Exploration Summary**

Figure
4-21

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Legend

ASB0282 (Offset: 8' E) — Exploration Designation

— Top of Exploration

* = Soil sample (Analytes = Not detected)

* = Soil sample (Analytes = Detected, below pCULs)

* = Soil sample (Analytes = Detected, above pCULs)

SM — Unified Soil Classification Symbol (USCS)

— Screen Interval

D=20.5' — Depth of Exploration (feet)

TCE=77 — TCE Concentration in Soil Gas ($\mu\text{g}/\text{m}^3$)

X = Analytes detected above SWQS in groundwater

X = Analytes detected above GW pCUL (protective of drinking water)

▨ = Analytes detected above pCULs in soil

AOC A-14	Groundwater pCUL	SWQS in Groundwater	Soil pCUL (mg/kg)
TCE	4	0.3	0.025
VC	0.29	0.02	N/A

USCS Soil Legend

Conc = Concrete

GW = Well-graded gravel; gravel/sand mixture(s); little or no fines

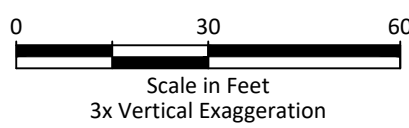
ML = Silt

SM = Silty sand; sand/silt mixture(s)

SP = Poorly graded sand; gravelly sand; little or no fines

SW = Well-graded sand; gravelly sand; little or no fines

- Notes**
- Lines indicated show the maximum and minimum water level elevation measured from AGW001/AGW001R from December 2003 to December 2018.
 - ASG001 through ASG006 were installed in June 2017. Borings ASB0277, ASB0278, ASB0282, and ASB0284 were completed in August and September 2017. Borings ASB0290 through ASB0292 were installed in December 2018.
 - Symbols at well screens reflect the most recent data.
 - Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



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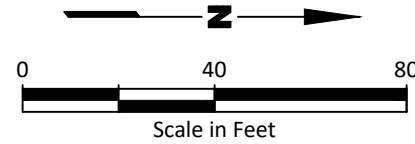
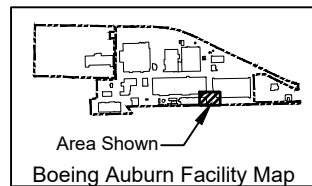
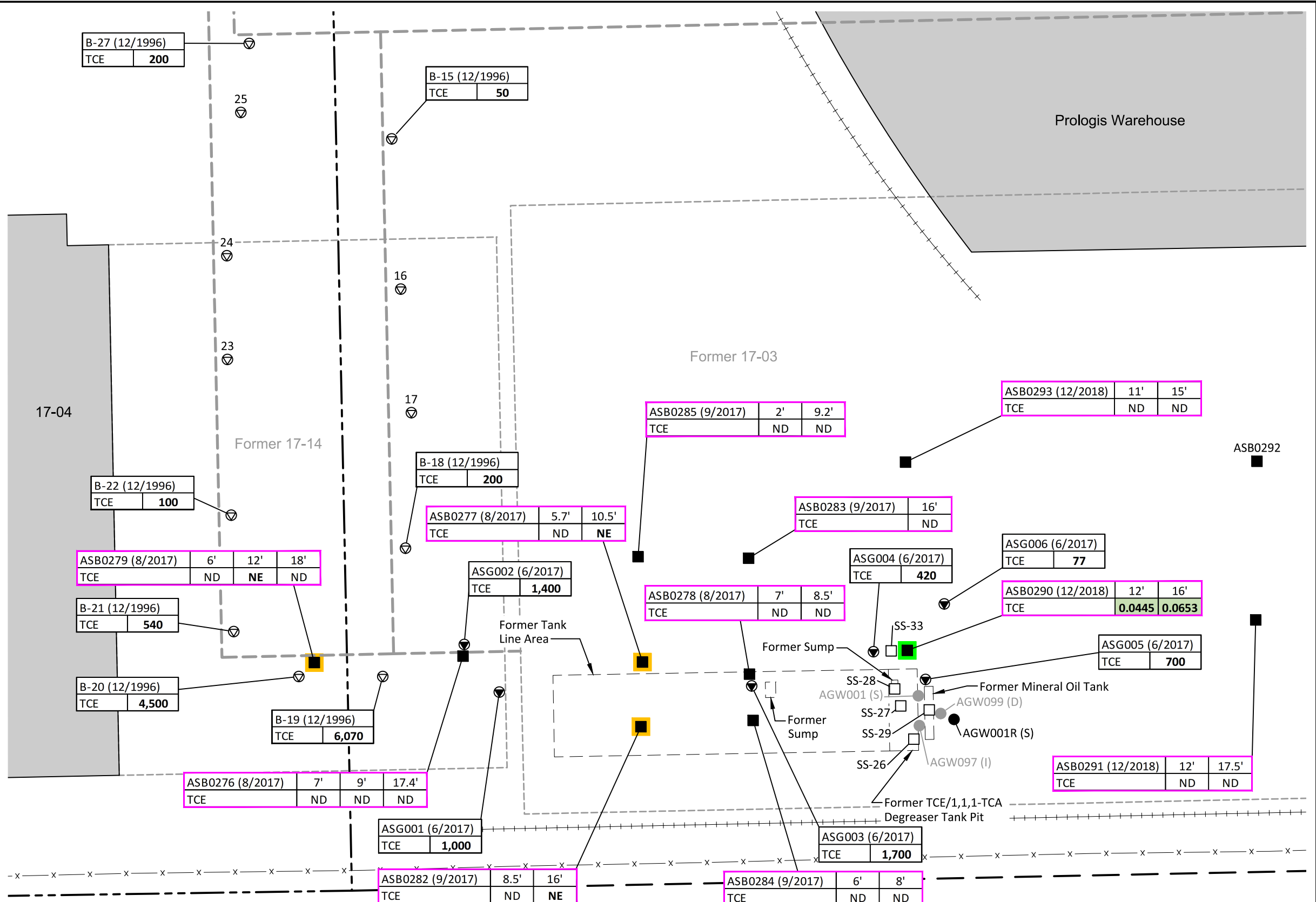
Legend

- ASB0280 ■ FS Boring Location
- SS-33 □ Pre-FS Boring Location
- ASG001 ● FS Soil Gas Sampling Location
- 18 ⊙ Pre-FS Soil Gas Location
- AGW001R (S) ● Monitoring Well Location
- AGW001 (S) ● Decommissioned Well Location
- No highlighting = No detection
- Orange = Detection below pCUL
- Green = Exceedance of pCUL
- 17-07 ■ Current Building and Number
- 17-14 □ Former Building and Number
- Boeing Property Line
- - - Adjacent Property Line
- x - Existing Fence Line
- + - Existing Railroad Track
- - - Chrome Waste Line

AOC A-14	Soil pCUL (mg/kg)
TCE	0.025
VC	N/A

Notes

1. Soil gas results are identified with black data boxes. Soil gas data is shown in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
 2. Soil results are identified with purple data boxes. Soil data is shown in milligrams per kilogram (mg/kg).
 3. For soil and soil gas results, TCE was the only constituent of concern detected above preliminary cleanup levels or screening levels, and only TCE results are shown.
 4. Groundwater monitoring wells are identified by the AGW prefix. The designations beside the identifications indicate the zone (S) = Shallow zone, (I) = Intermediate zone, (D) = deep zone.
 5. In the databoxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL).
 6. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.
- ND = non-detect, the analyte was analyzed for, but was not detected
 NE = no exceedance, one or more analytes were detected, but do not exceed pCULs



Base map source: Geomatrix 2003; Kennedy Jenks

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Former Building 17-03 Release Area Soil and Soil Gas Results	Figure 4-23
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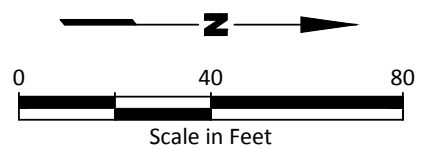
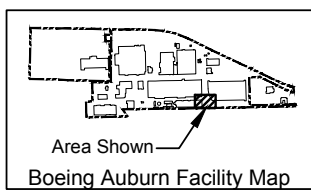
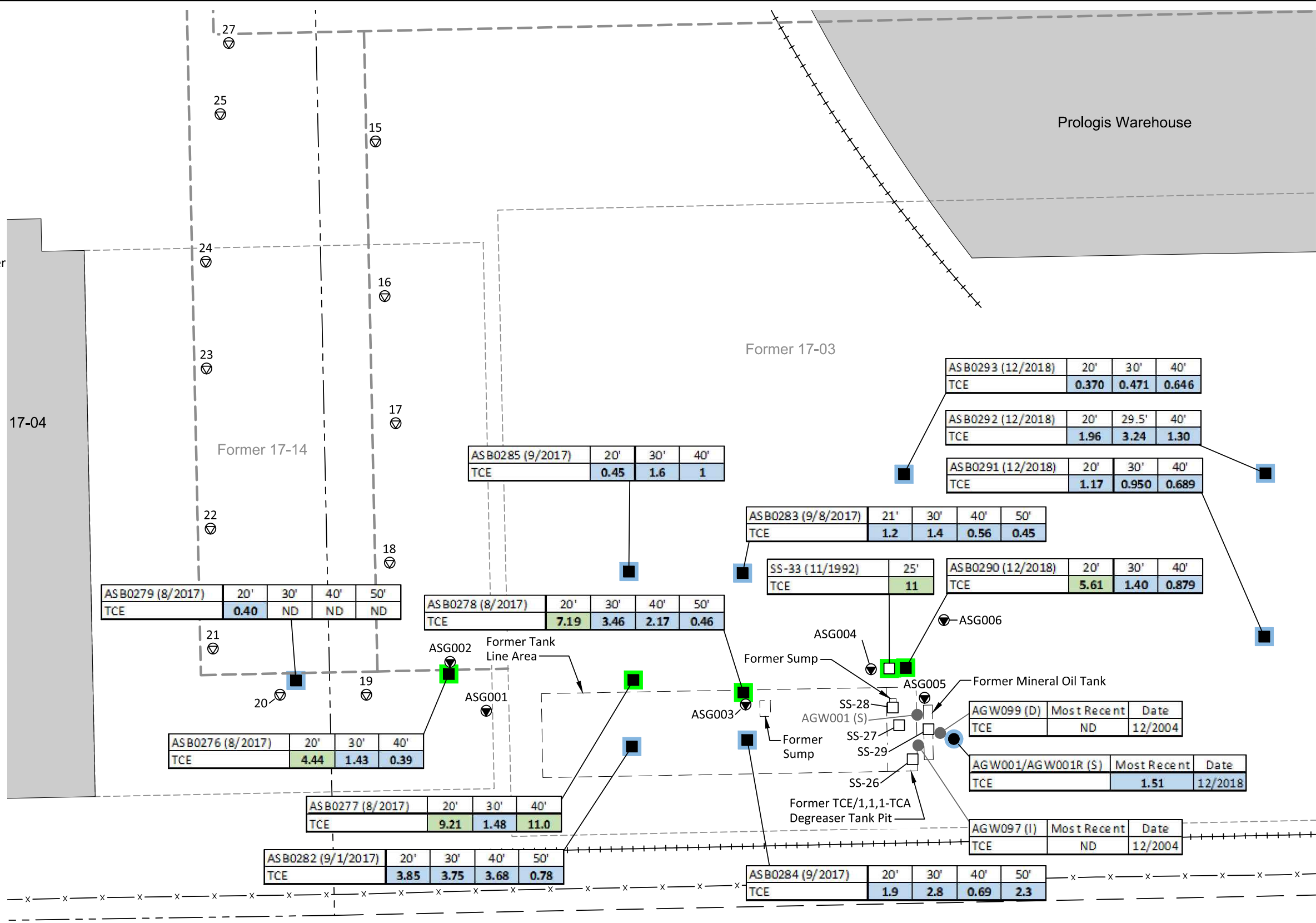
Legend

- ASB0280 ■ FS Boring Location
- SS-33 □ Pre-FS Boring Location
- ASG001 ● FS Soil Gas Sampling Location
- 18 ○ Pre-FS Soil Gas Location
- AGW001R (S) ● Monitoring Well Location
- AGW001 (S) ● Decommissioned Well Location
- No highlighting = No detection
- Green = Exceedance of Groundwater pCUL (protective of drinking water) (TCE>4 µg/L and/or VC>0.29 µg/L)
- Blue = Concentration above SWQS in Groundwater (TCE>0.3 µg/L and/or VC>0.2 µg/L)
- 17-07 Current Building and Number
- 17-14 Former Building and Number
- Boeing Property Line
- - - Adjacent Property Line
- x - Existing Fence Line
- + - Existing Railroad Track
- - - Chrome Waste Line

Notes

1. All TCE results are shown in micrograms per liter (µg/L).
2. For groundwater results, TCE was the only constituent of concern detected above cleanup levels, and only TCE results are shown.
3. Groundwater monitoring wells are identified by the AGW prefix. The designations beside the identifications indicate the zone (S) = Shallow zone, (I) = Intermediate zone, (D) = deep zone.
4. In the databoxes: **Bold** text indicates detected analyte. Green shading indicates exceedance of proposed cleanup level (pCUL) and concentrations above surface water quality standards (SWQS) in groundwater. Blue shading indicates concentrations above SWQS in groundwater.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

ND = non-detect, the analyte was analyzed for, but was not detected



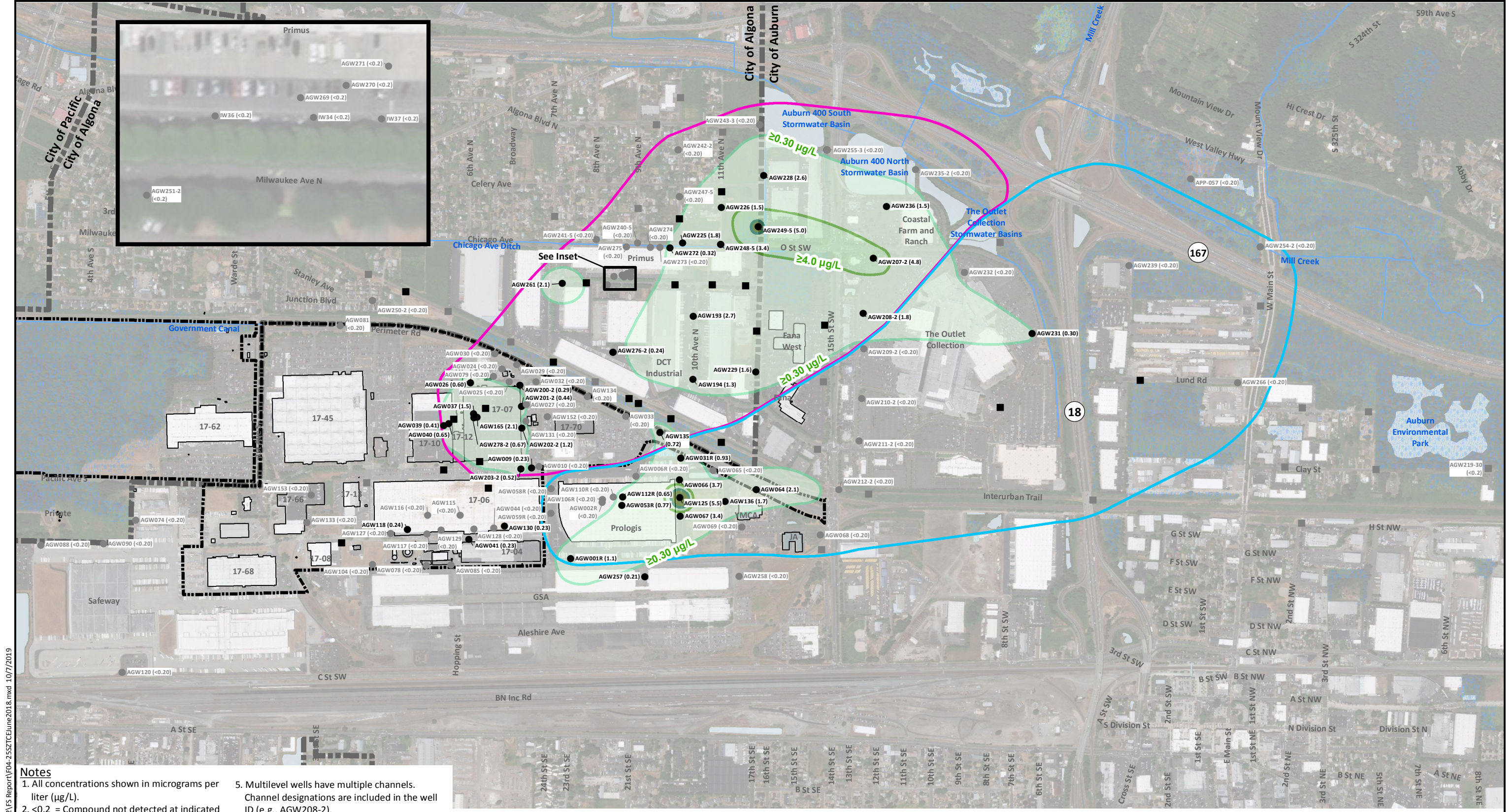
Base map source: Geomatrix 2003; Kennedy Jenks



Boeing Auburn Feasibility Study Auburn, Washington

AOC A-14: Former Building 17-03 Release Area Groundwater Results

Figure 4-24



- Notes**
1. All concentrations shown in micrograms per liter (µg/L).
 2. <0.2 = Compound not detected at indicated reporting limit.
 3. Monitoring well results are the most recent.
 4. Black well and boring symbols indicate locations where the compound was detected. Gray well and boring symbols indicate locations where the compound was not detected.
 5. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
 6. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Historical Borehole Grab Sample Location
- Non-Detect
- TCE Contour (≥5.0 µg/L)
- TCE Contour (≥4.0 µg/L)
- TCE Contour (≥0.30 µg/L)
- Area 1 Plume
- Western Plume
- City Limits
- Boeing Property
- Wetland Areas
- Water Bodies
- Waterways

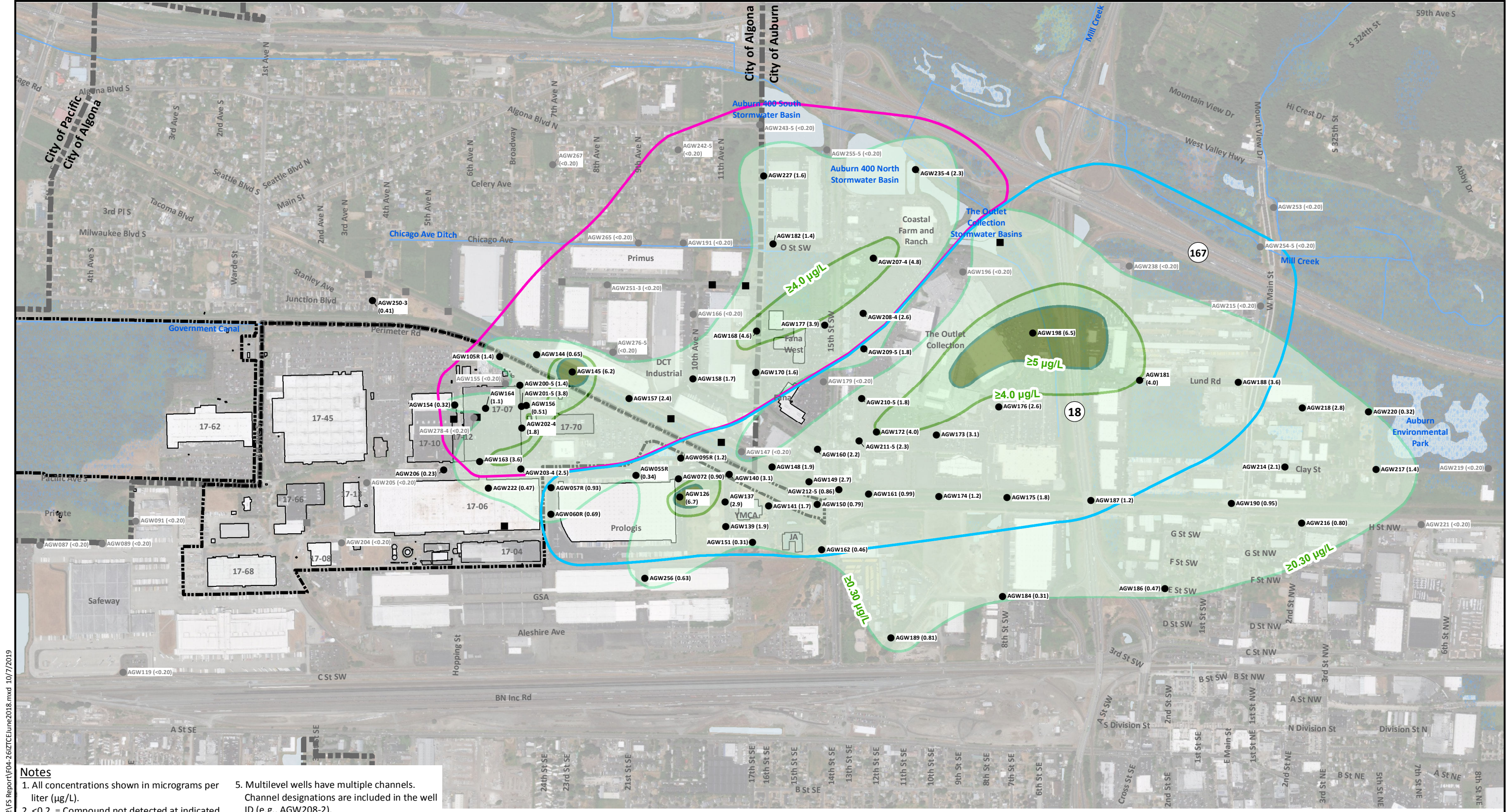
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Scale in Feet

Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Shallow Zone Trichloroethene Concentrations June 2018	Figure 4-25
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G:\Projects\025\164\170\112\FS Report\F04-2552TCEJune2018.mxd 10/7/2019





- Notes**
- All concentrations shown in micrograms per liter (µg/L).
 - <0.2 = Compound not detected at indicated reporting limit.
 - Monitoring well results are the most recent.
 - Black well and boring symbols indicate locations where the compound was detected. Gray well and boring symbols indicate locations where the compound was not detected.
 - Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
 - Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Historical Borehole Grab Sample Location
- Non-Detect
- TCE Contour (≥5.0 µg/L)
- TCE Contour (≥4.0 µg/L)
- TCE Contour (≥0.30 µg/L)
- Area 1 Plume
- Western Plume
- City Limits
- Boeing Property
- Wetland Areas
- Water Bodies
- Waterways

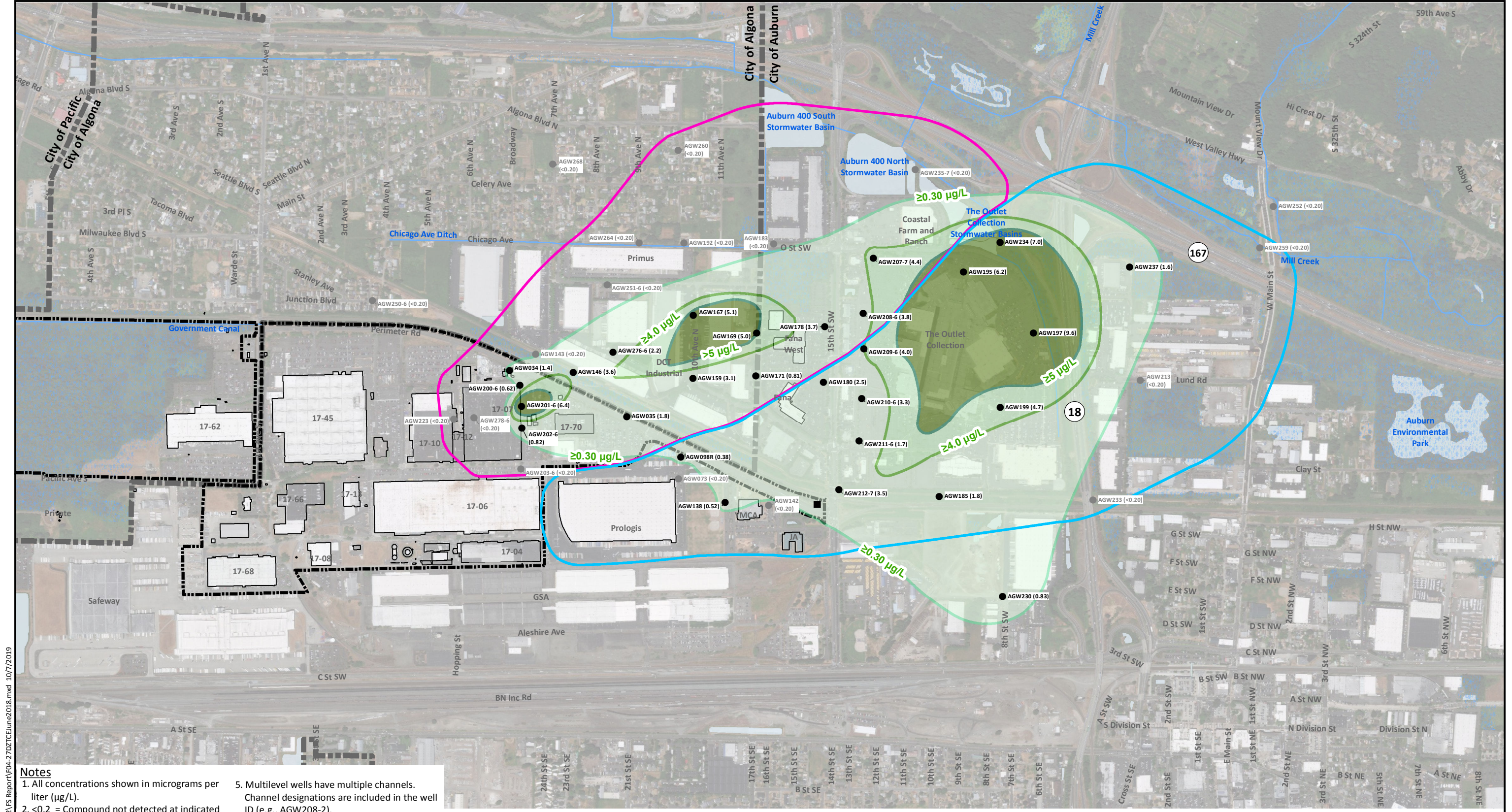
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Scale in Feet

Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Intermediate Zone Trichloroethene Concentrations June 2018	Figure 4-26
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G:\Projects\025\164\170\112\Fs Report\F04-26\TCEJune2018.mxd 10/7/2019

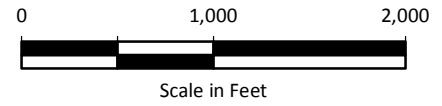




- Notes**
1. All concentrations shown in micrograms per liter (µg/L).
 2. <0.2 = Compound not detected at indicated reporting limit.
 3. Monitoring well results are the most recent.
 4. Black well and boring symbols indicate locations where the compound was detected. Gray well and boring symbols indicate locations where the compound was not detected.
 5. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
 6. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Historical Borehole Grab Sample Location
- Non-Detect
- TCE Contour (≥5.0 µg/L)
- TCE Contour (≥4.0 µg/L)
- TCE Contour (≥0.30 µg/L)
- Area 1 Plume
- Western Plume
- City Limits
- Boeing Property
- Wetland Areas
- Water Bodies
- Waterways



Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

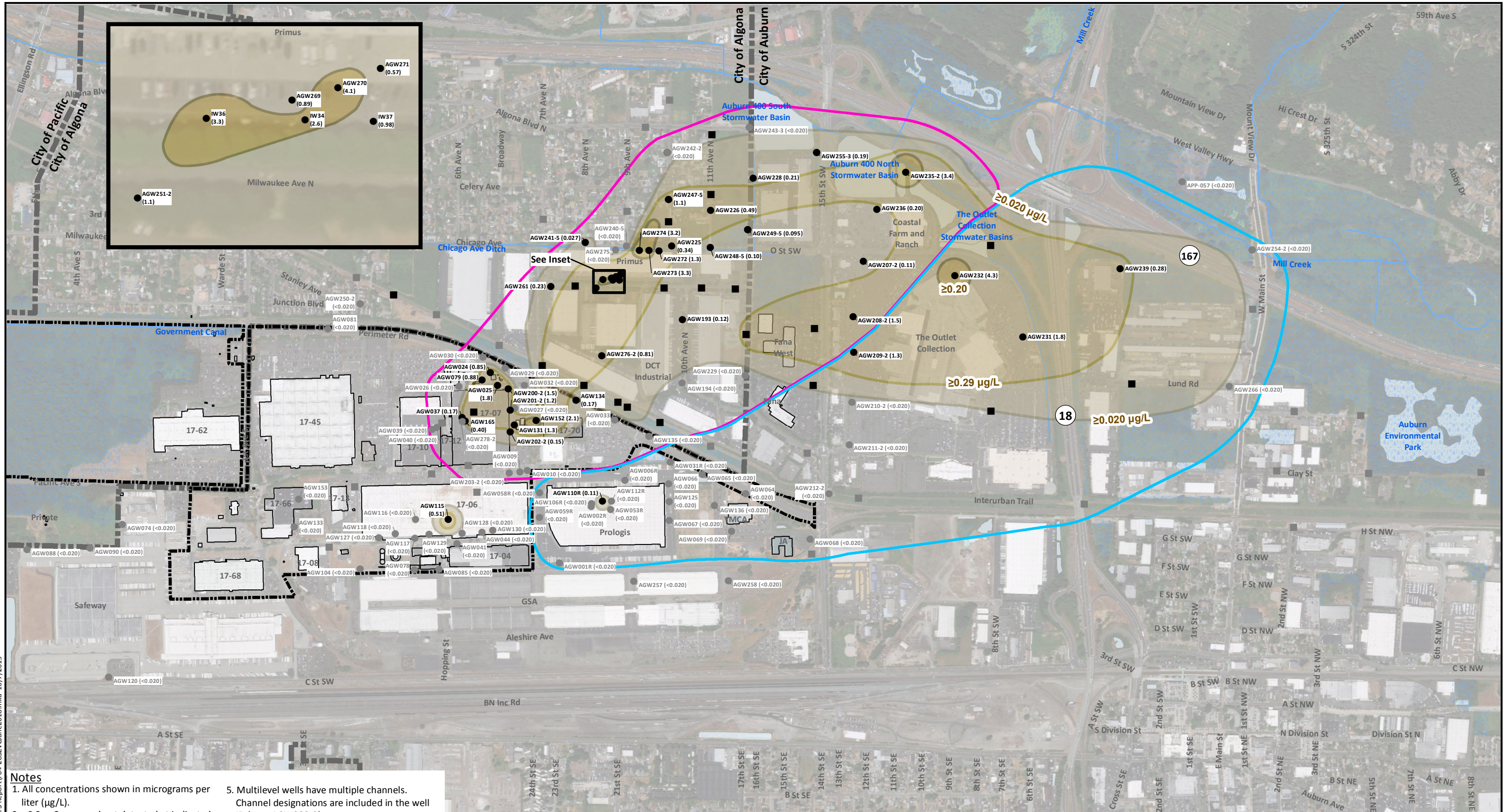
Boeing Auburn
Feasibility Study
Auburn, Washington

**AOC A-14: Deep Zone
Trichloroethene Concentrations
June 2018**

Figure
4-27

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Notes

1. All concentrations shown in micrograms per liter (µg/L).
2. <0.2 = Compound not detected at indicated reporting limit.
3. Monitoring well results are the most recent.
4. Black well and boring symbols indicate locations where the compound was detected. Gray well and boring symbols indicate locations where the compound was not detected.
5. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
6. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Historical Borehole Grab Sample Location
- Non-Detect
- Vinyl Chloride Contour (≥2.0 µg/L)
- Vinyl Chloride Contour (≥0.29 µg/L)
- Vinyl Chloride Contour (≥0.020 µg/L)
- City Limits
- Boeing Property
- Wetland Areas
- Area 1 Plume
- Western Plume
- Water Bodies
- Waterways

0 1,000 2,000



Scale in Feet

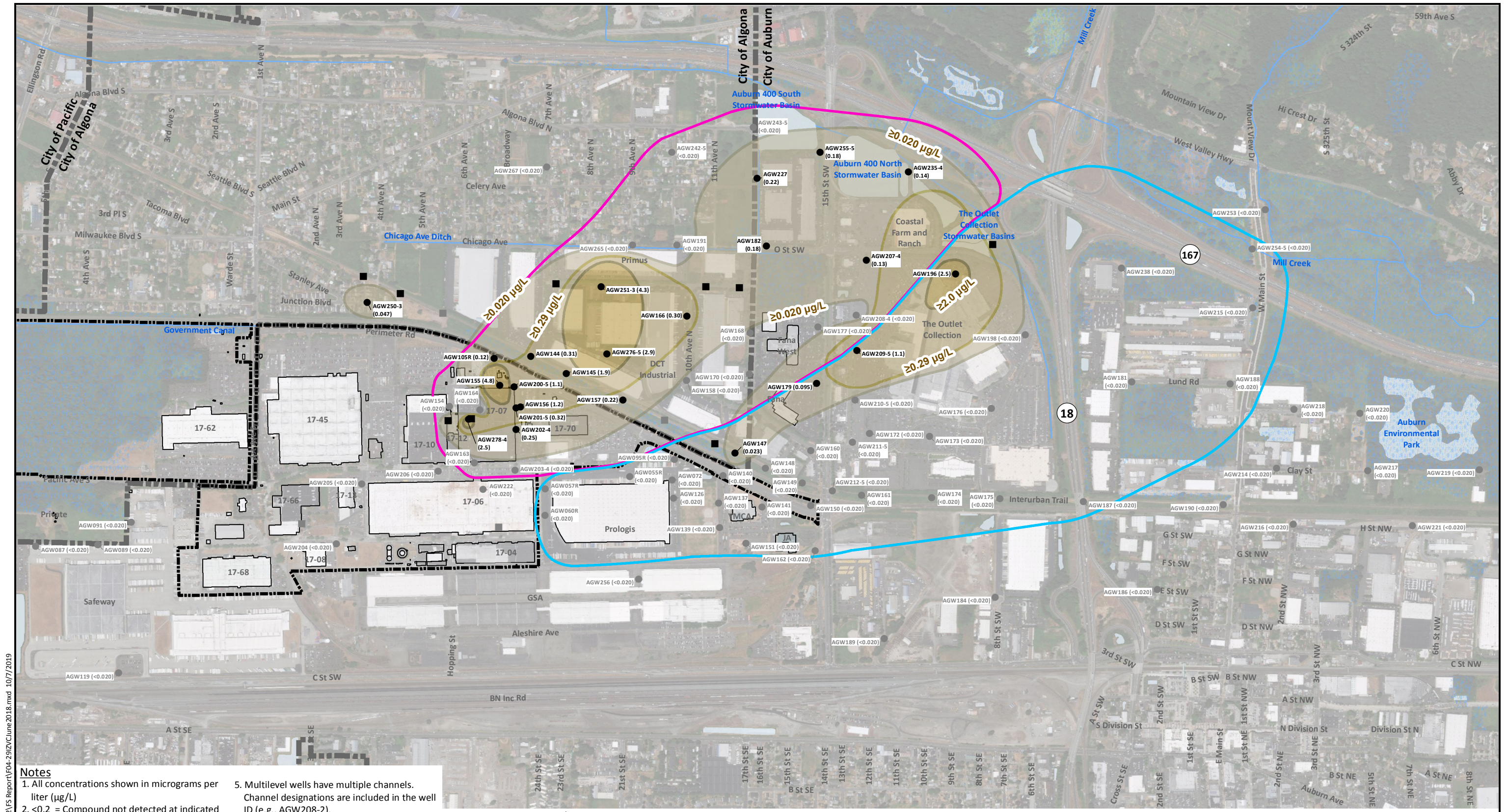
Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

Boeing Auburn
Feasibility Study
Auburn, Washington

AOC A-14: Shallow Zone
Vinyl Chloride Concentrations
June 2018

Figure
4-28

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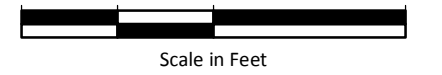
Notes

1. All concentrations shown in micrograms per liter (µg/L)
2. <0.2 = Compound not detected at indicated reporting limit.
3. Monitoring well results are the most recent.
4. Black well and boring symbols indicate locations where the compound was detected. Gray well and boring symbols indicate locations where the compound was not detected.
5. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
6. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Historical Borehole Grab Sample Location
- Non-Detect
- Vinyl Chloride Contour (≥2.0 µg/L)
- Vinyl Chloride Contour (≥0.29 µg/L)
- Vinyl Chloride Contour (≥0.020 µg/L)
- Area 1 Plume
- Western Plume
- City Limits
- Boeing Property
- Wetland Areas
- Water Bodies
- Waterways

0 1,000 2,000



Scale in Feet

Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

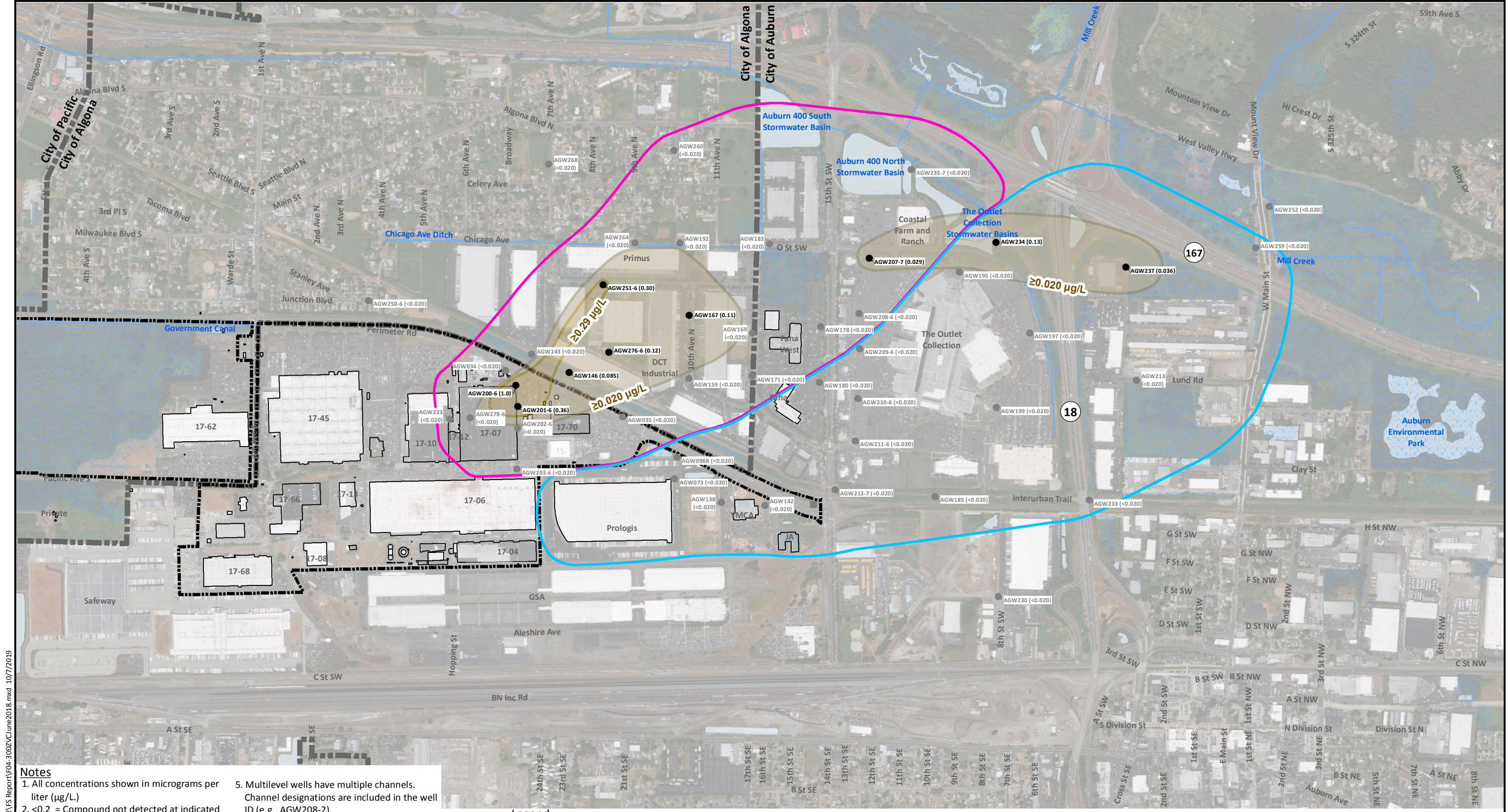
Boeing Auburn
Feasibility Study
Auburn, Washington

AOC A-14: Intermediate Zone
Vinyl Chloride Concentrations
June 2018

Figure
4-29

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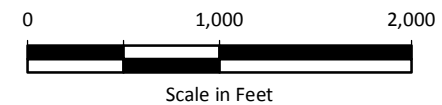


Notes

1. All concentrations shown in micrograms per liter ($\mu\text{g/L}$).
2. <0.2 = Compound not detected at indicated reporting limit.
3. Monitoring well results are the most recent.
4. Black well and boring symbols indicate locations where the compound was detected. Gray well and boring symbols indicate locations where the compound was not detected.
5. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
6. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Historical Borehole Grab Sample Location
- Non-Detect
- Vinyl Chloride Contour ($\geq 2.0 \mu\text{g/L}$)
- Vinyl Chloride Contour ($\geq 0.29 \mu\text{g/L}$)
- Vinyl Chloride Contour ($\geq 0.020 \mu\text{g/L}$)
- Area 1 Plume
- Western Plume
- City Limits
- Boeing Property
- Wetland Areas
- Water Bodies
- Waterways

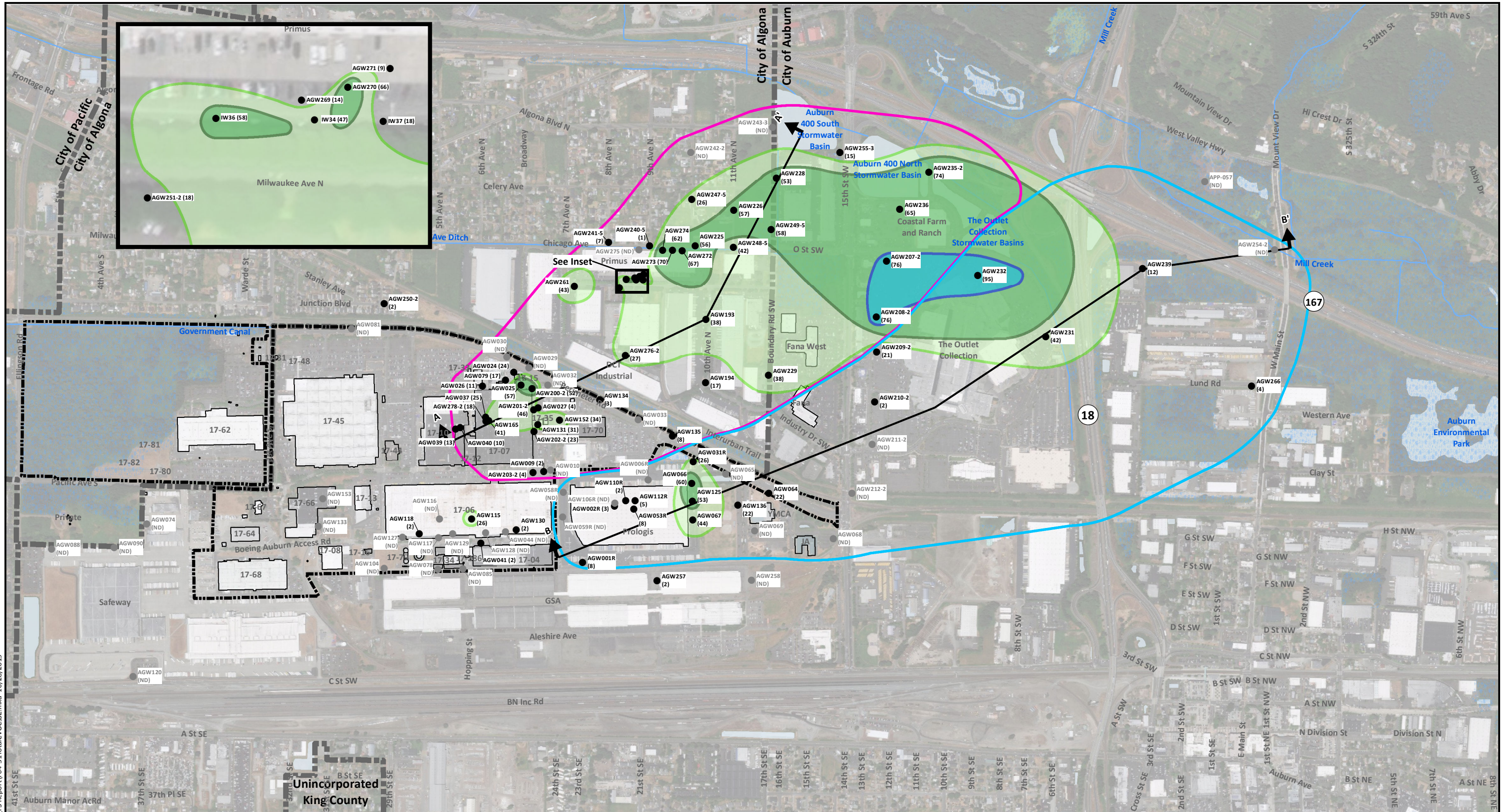


Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

Boeing Auburn
Feasibility Study
Auburn, Washington

AOC A-14: Deep Zone
Vinyl Chloride Concentrations
June 2018

Figure
4-30



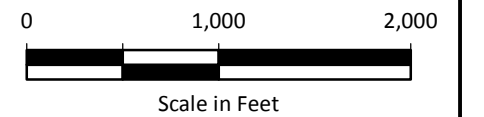
Notes

1. All concentrations shown in nanomoles per liter (nmol/L).
2. Multilevel wells have seven well channels. Channel designations are included in the well ID (ex: AGW208-1).
3. Total chloroethenes include TCE, DCE, and VC.
4. ND = TCE, DCE, and VC were not detected at the laboratory reporting limits.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

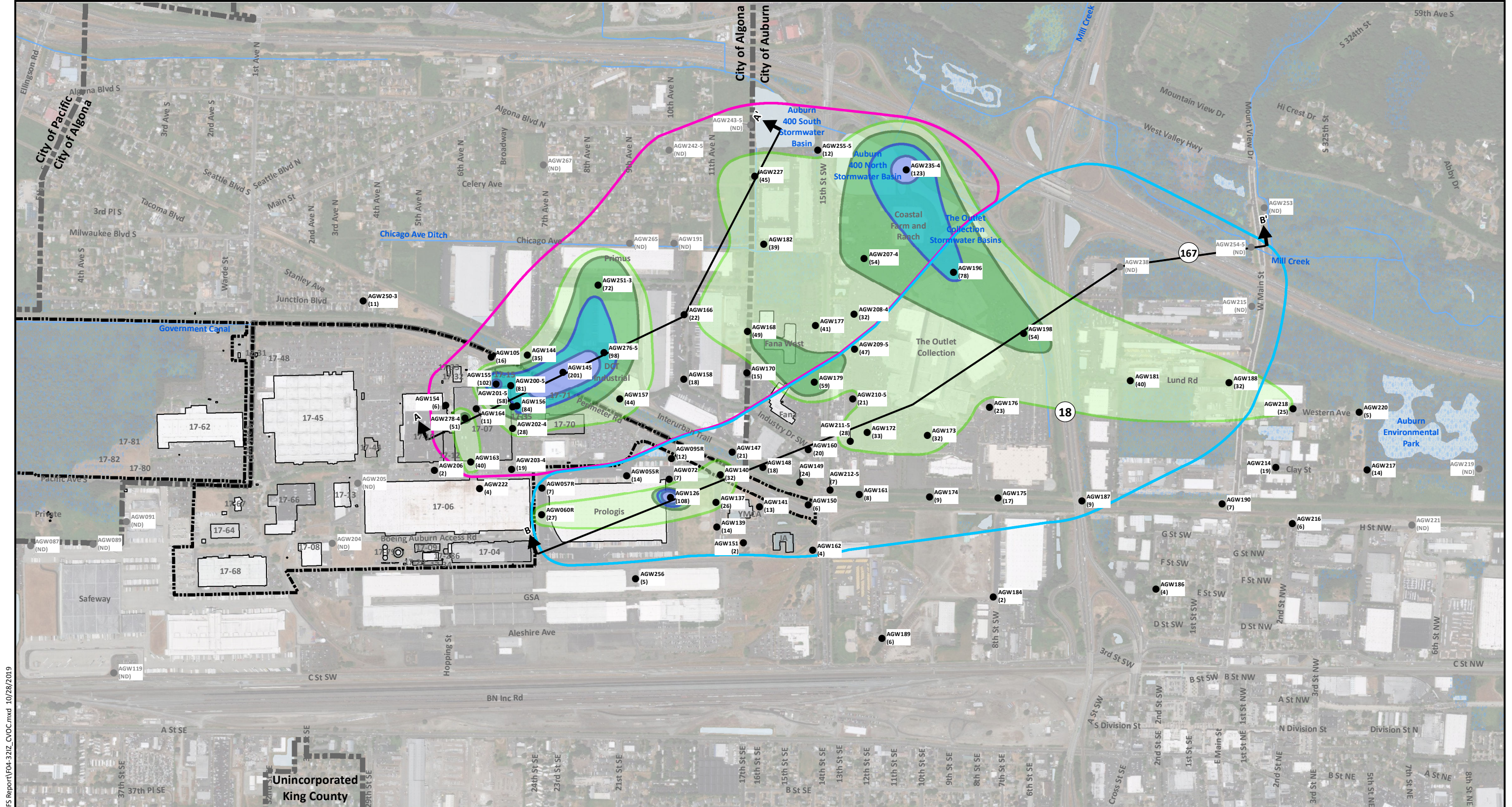
Legend

- Monitoring Well Location
- Monitoring Well Location (Non-Detect)
- Nanomole Contour ≥ 100 nmol/L
- Nanomole Contour ≥ 75 nmol/L
- Nanomole Contour ≥ 50 nmol/L
- Nanomole Contour ≥ 25 nmol/L
- Area 1 Plume
- Western Plume
- City Limits
- Boeing Property
- Wetland Areas
- Water Bodies
- Waterways
- Cross Section Location

Data Sources: King County GIS; Esri World Imagery.



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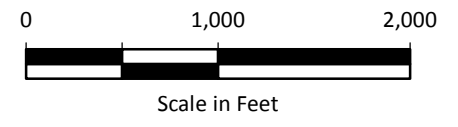


Notes

1. All concentrations shown in nanomoles per liter (nmol/L).
2. Multilevel wells have seven well channels. Channel designations are included in the well ID (ex: AGW208-1).
3. Total chloroethenes include TCE, DCE, and VC.
4. ND = TCE, DCE, and VC were not detected at the laboratory reporting limits.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

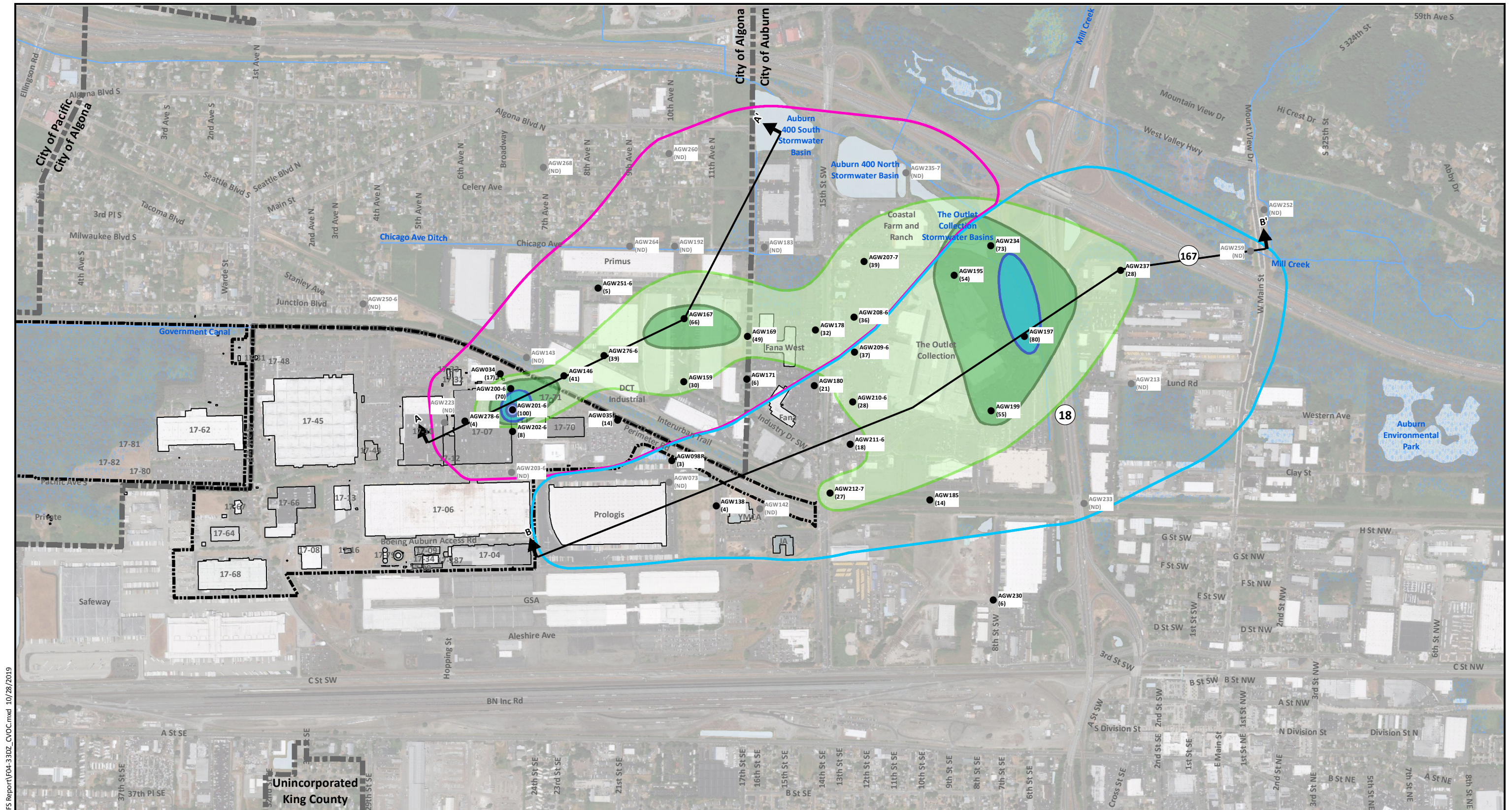
- Monitoring Well Location
- Monitoring Well Location (Non-Detect)
- Nanomole Contour ≥ 100 nmol/L
- Nanomole Contour ≥ 75 nmol/L
- Nanomole Contour ≥ 50 nmol/L
- Nanomole Contour ≥ 25 nmol/L
- Area 1 Plume
- Western Plume
- City Limits
- Boeing Property
- Wetland Areas
- Water Bodies
- Waterways
- ↑ Cross Section Location



Data Sources: King County GIS; Esri World Imagery.

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Intermediate Zone Total Chlorinated Volatile Organic Compound Concentrations - June 2018	Figure 4-32
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Notes

1. All concentrations shown in nanomoles per liter (nmol/L).
2. Multilevel wells have seven well channels. Channel designations are included in the well ID (ex: AGW208-1).
3. Total chloroethenes include TCE, DCE, and VC.

4. ND = TCE, DCE, and VC were not detected at the laboratory reporting limits.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



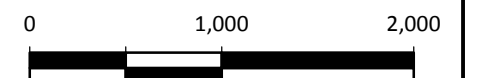
Legend

- Monitoring Well Location
- Monitoring Well Location (Non-Detect)
- Nanomole Contour ≥ 100 nmol/L
- Nanomole Contour ≥ 75 nmol/L
- Nanomole Contour ≥ 50 nmol/L
- Nanomole Contour ≥ 25 nmol/L
- City Limits
- Boeing Property
- Wetland Areas

- Area 1 Plume
- Western Plume

- Water Bodies
- Waterways
- ▲ Cross Section Location

Data Sources: King County GIS; Esri World Imagery.



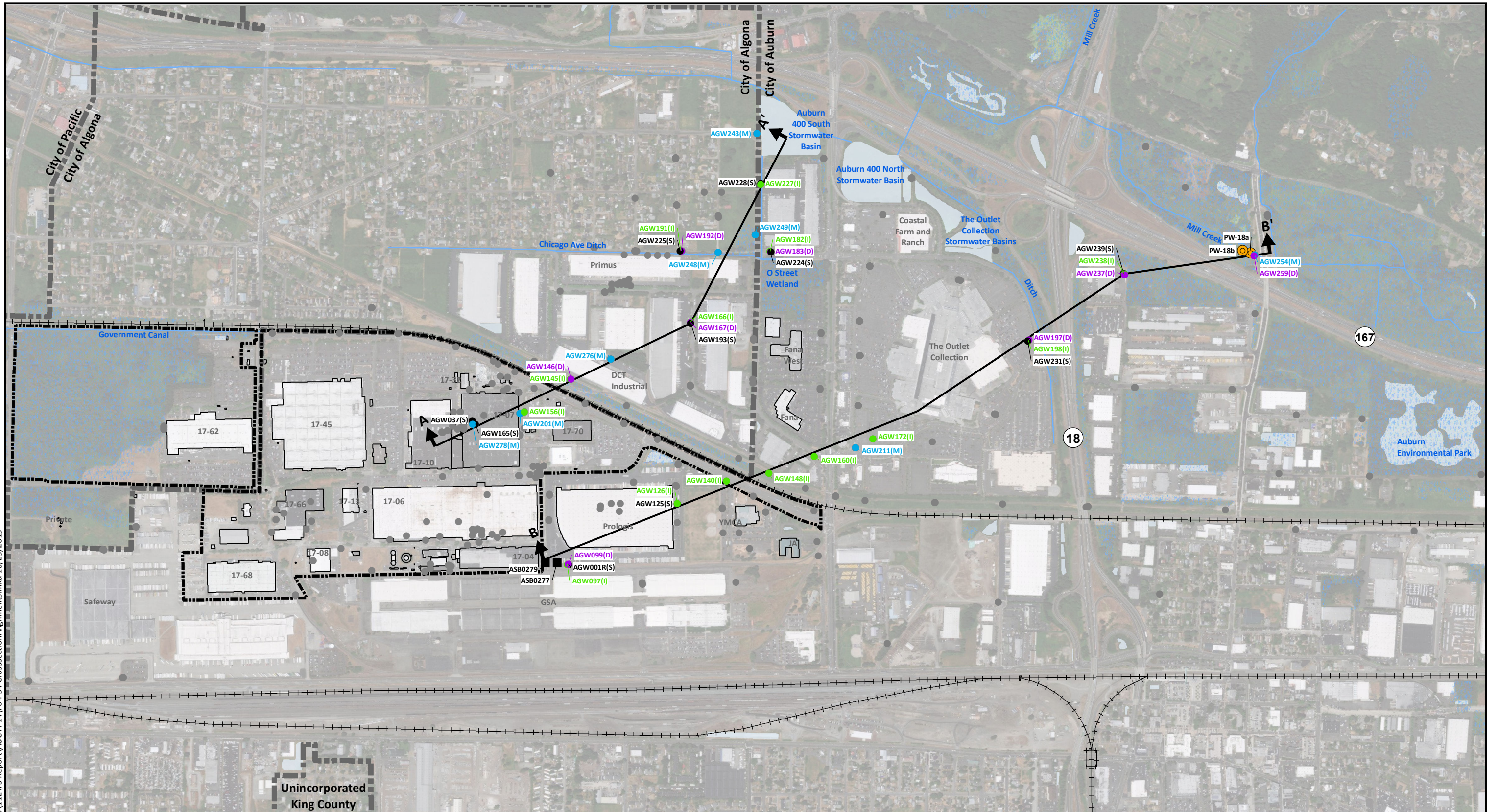
Scale in Feet

Boeing Auburn
Feasibility Study
Auburn, Washington

AOC A-14: Deep Zone
Total Chlorinated Volatile Organic
Compound Concentrations - June 2018

Figure
4-33

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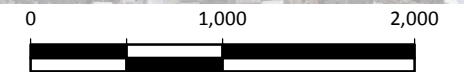


Notes

1. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. If there is no designation, the well is screened in the shallow zone. (I) = intermediate zone, (D) = deep zone, (M) = multi-level well, screens in multiple groundwater zones.
2. Well designations beginning with APP are installed and owned by WSDOT.
3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- AGW165(S) ● Shallow Monitoring Well (2 to 30 ft bgs)
- AGW145(I) ● Intermediate Monitoring Well (40 to 60 ft bgs)
- AGW146(D) ● Deep Monitoring Well (80 to 100 ft bgs)
- AGW276(M) ● Multi-Level Well
- Wells Not Associated with Cross-Sections
- ASB0277 ■ FS Boring Location
- Pore Water Sample Location
- Wetland Areas
- Water Bodies
- Waterways
- ↑ Cross-Section Location



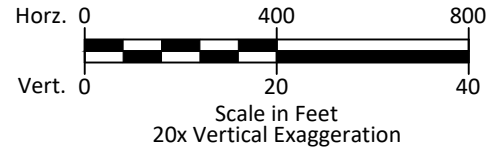
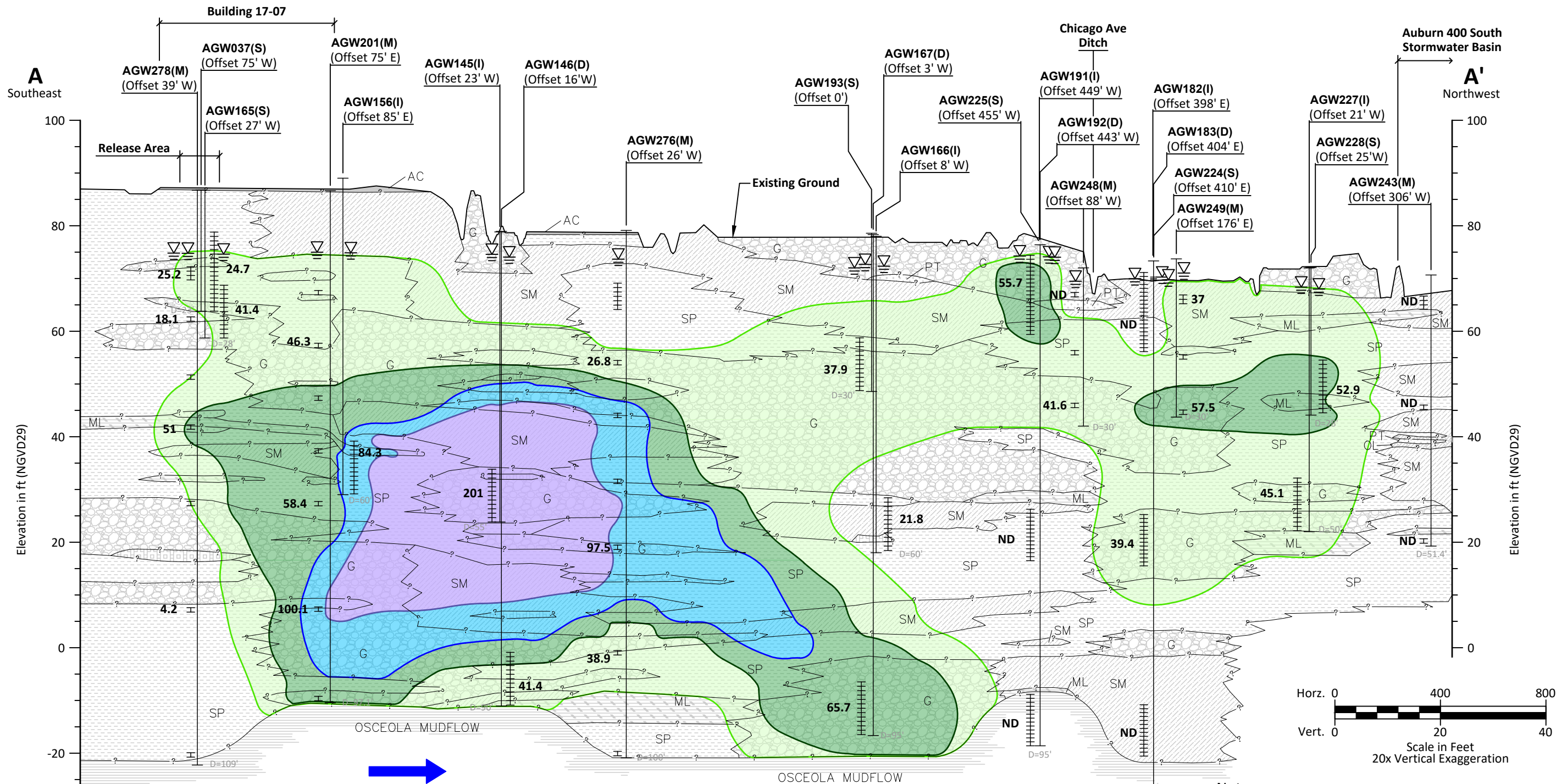
Base Map Source: Geomatrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

Boeing Auburn
Feasibility Study
Auburn, Washington

**Western Plume and Area 1 Plume
Cross-Section Alignments**

Figure
4-34

Landau Associates | G:\Projects\025\164\170\102\Cross Sections\F04-35a_Xsec_AA.dwg | 10/30/2019 4:05 PM | JVALLUZZI



Legend

- AGW278(M) — Exploration Designation
- Top of Exploration
- 4.2 — CVOCs Concentration in Groundwater in nanomoles per liter
- Water Level
- Screen Interval
- D=35 — Depth of Exploration (feet)

- AC
- SP, SP-SM
- G
- SM
- Nanomole Contour ≥ 100 nmol/L
- Nanomole Contour ≥ 75 nmol/L
- Nanomole Contour ≥ 50 nmol/L
- Nanomole Contour ≥ 25 nmol/L

USCS Soil Legend

- AC = asphalt/concrete pavement
- GP = poorly graded gravel; gravel/sand mixture(s); little or no fines
- GW = well-graded gravel; gravel/sand mixture(s); little or no fines
- ML = silt
- PT = peat
- SM = silty sand; sand/silt mixture(s)
- SP = poorly graded sand; gravelly sand; little or no fines
- SW = well-graded sand; gravelly sand; little or no fines
- WD = wood debris
- ML
- Osceola
- PT
- WD

Acronyms / Abbreviations

- CVOCs = chlorinated volatile organic compounds
- ND = non-detect, the analyte was analyzed for, was not detected
- N/S = not sampled

Notes

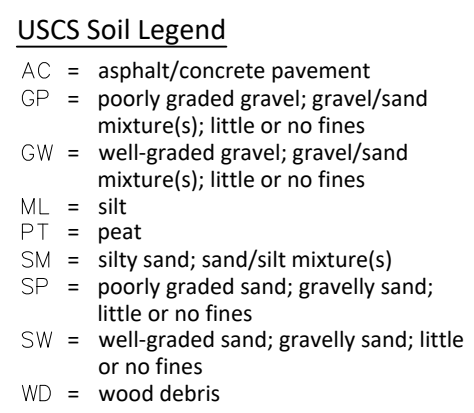
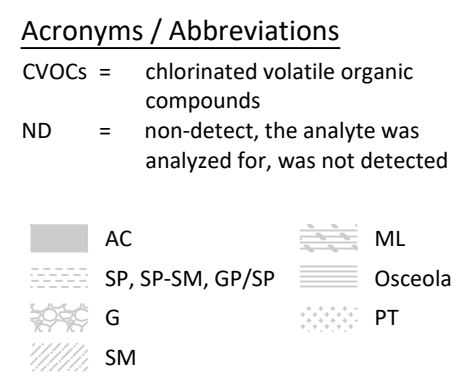
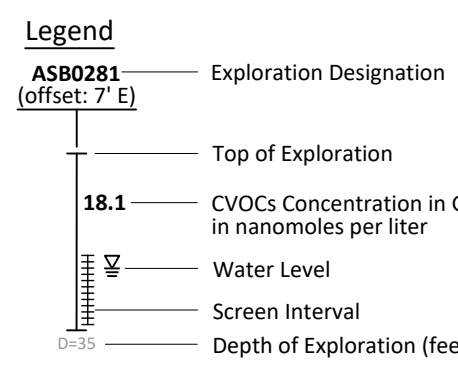
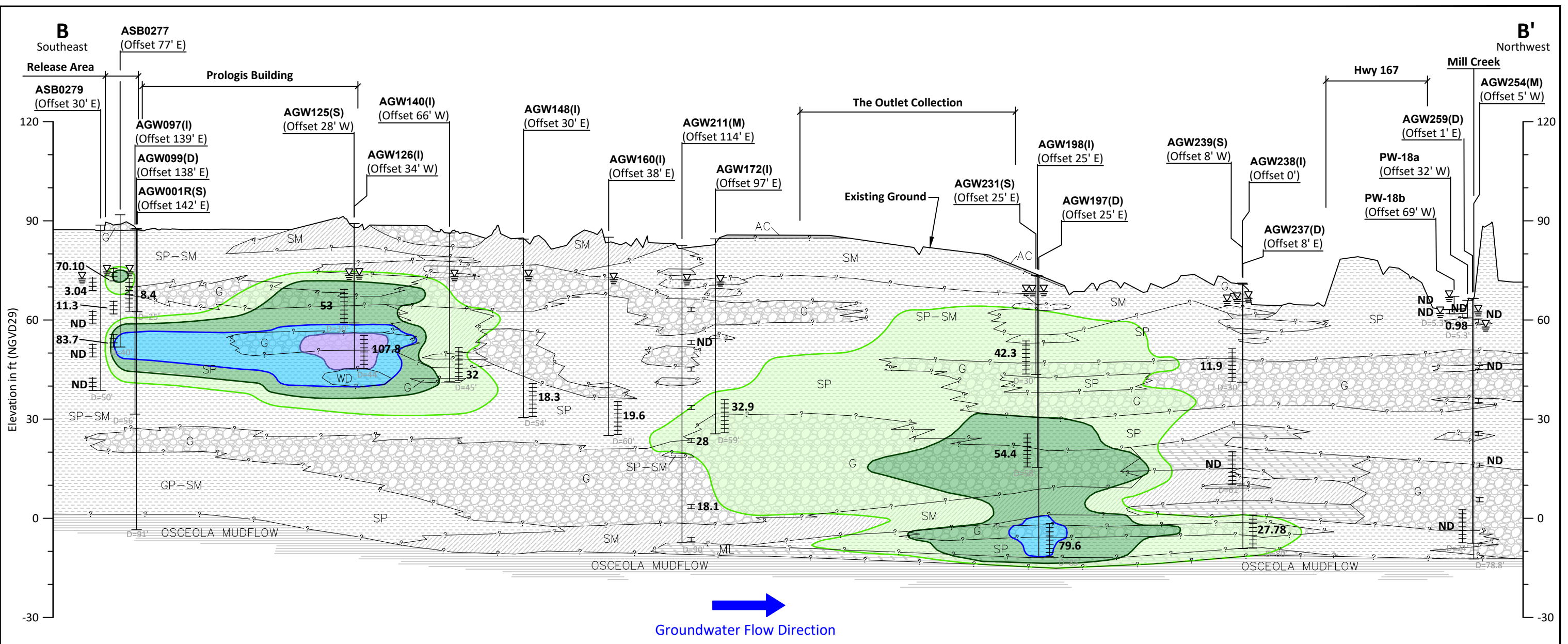
1. Groundwater data presented for monitoring wells is from May and June 2018.
2. For Cross Section location, see the Site and Exploration Plan, Figure 4-34.
3. Soil descriptions are generalized, based on interpretation of field and laboratory data. Stratigraphic contacts are interpolated between borings and based on topographic features; actual conditions may vary.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Source: King County Lidar, 2016

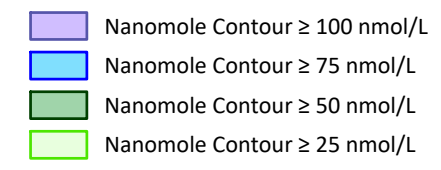
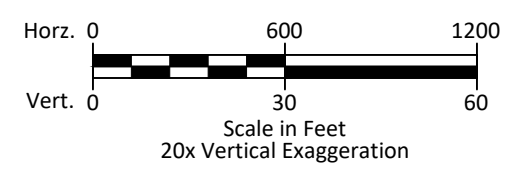
Boeing Auburn Auburn, Washington	Cross-Section A-A' Western Plume Total CVOCs Concentrations	Figure 4-35a
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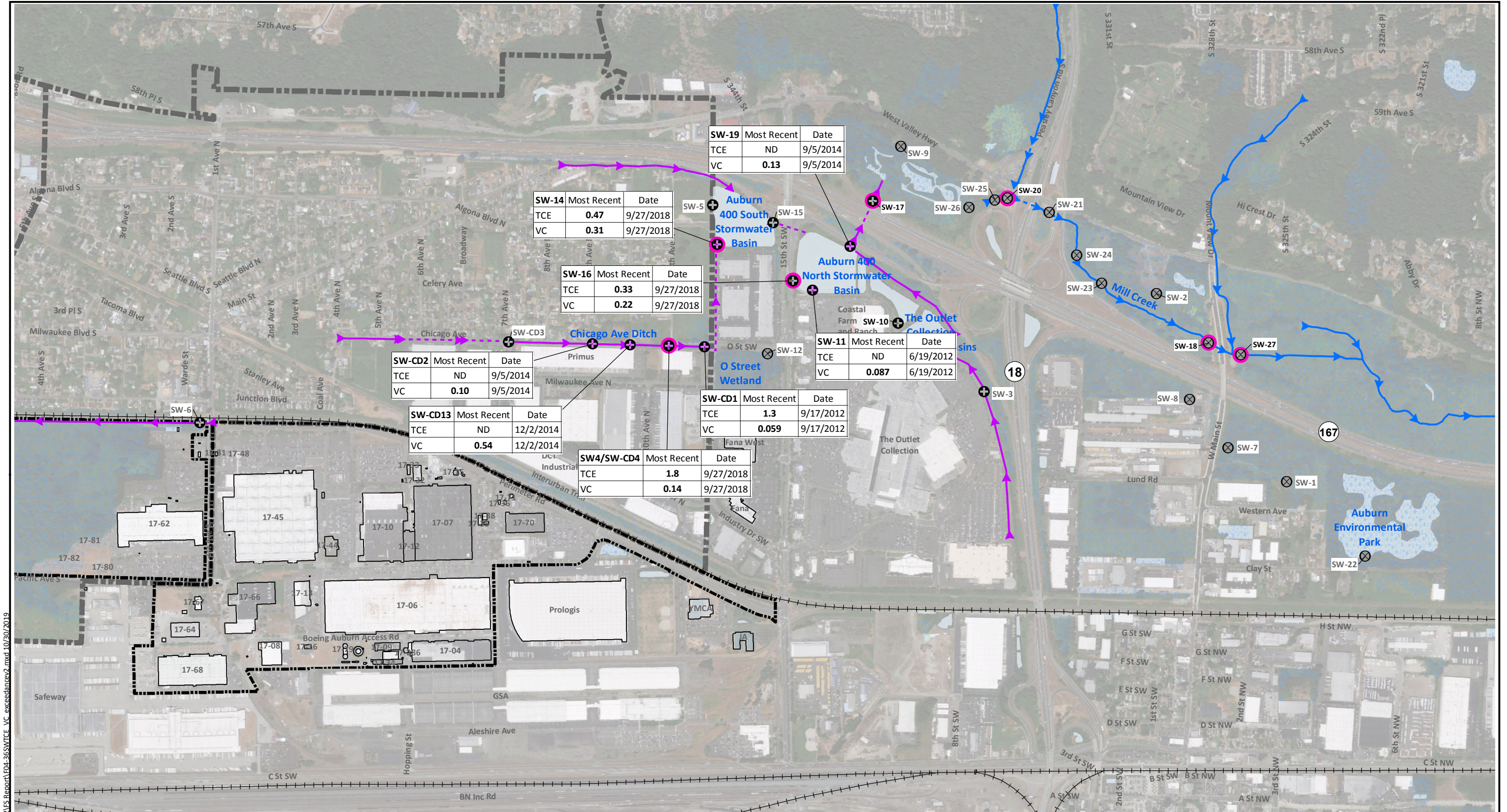
- Notes**
- Groundwater data presented for monitoring wells is from May and June 2018. Groundwater data for borings are from August 2017. Pore water data is from October 2018.
 - For Cross Section location, see the Site and Exploration Plan, Figures 4-34.
 - Soil descriptions are generalized, based on interpretation of field and laboratory data. Stratigraphic contacts are interpolated between borings and based on topographic features; actual conditions may vary.
 - Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Source: King County Lidar, 2016

Boeing Auburn Auburn, Washington	Cross-Section B-B' Area 1 Plume Total CVOCs Concentrations	Figure 4-35b
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SW-19	Most Recent	Date
TCE	ND	9/5/2014
VC	0.13	9/5/2014

SW-14	Most Recent	Date
TCE	0.47	9/27/2018
VC	0.31	9/27/2018

SW-16	Most Recent	Date
TCE	0.33	9/27/2018
VC	0.22	9/27/2018

SW-CD2	Most Recent	Date
TCE	ND	9/5/2014
VC	0.10	9/5/2014

SW-CD13	Most Recent	Date
TCE	ND	12/2/2014
VC	0.54	12/2/2014

SW4/SW-CD4	Most Recent	Date
TCE	1.8	9/27/2018
VC	0.14	9/27/2018

SW-11	Most Recent	Date
TCE	ND	6/19/2012
VC	0.087	6/19/2012

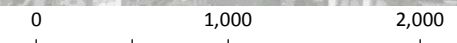
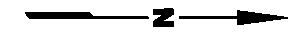
SW-CD1	Most Recent	Date
TCE	1.3	9/17/2012
VC	0.059	9/17/2012

Legend

- ⊕ Stormwater Sample Location (Detect)
- ⊕ Stormwater Sample Location (Non-Detect)
- ⊗ Surface Water Sample Location (Non-Detect)
- Ongoing Sample Location
- Open Surface Water Waterway
- Open Stormwater Waterway
- Piped Surface Water Waterway
- Piped Stormwater Waterway
- Wetland Areas
- Boeing Property
- City Limits

Notes

1. Surface water sampling locations are designated by SW.
2. The locations of surface water features are approximate.
3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



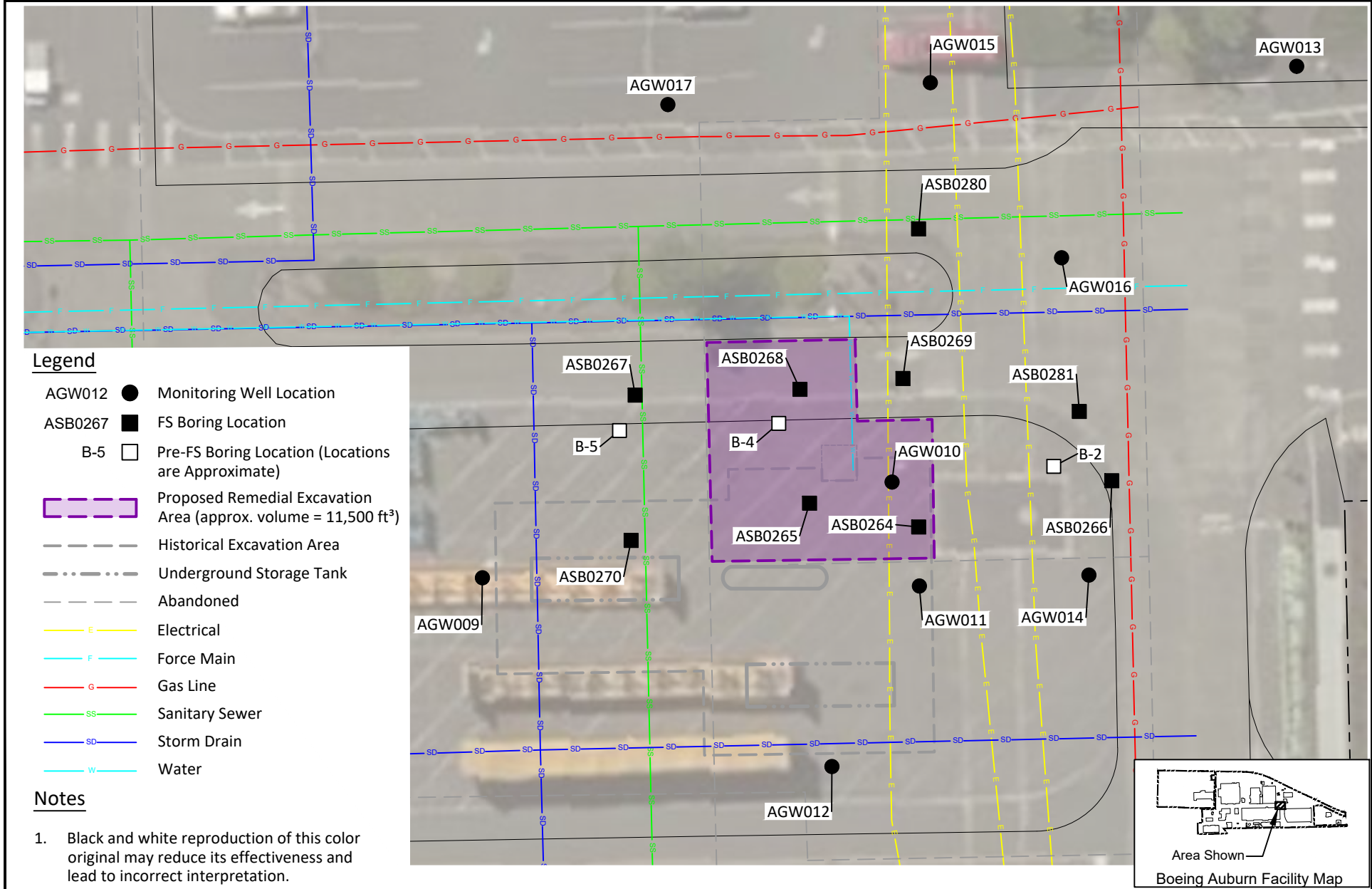
Base Map Source: Geometrix 2003; Parcel Data Source: King County 2015; Aerial Photo Source: Esri World Imagery.

Boeing Auburn
Feasibility Study
Auburn, Washington

**AOC A-15: Site-Wide Stormwater
and Surface Water Results**

Figure
4-36

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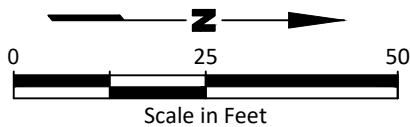
Legend

- AGW012 ● Monitoring Well Location
- ASB0267 ■ FS Boring Location
- B-5 □ Pre-FS Boring Location (Locations are Approximate)
- Proposed Remedial Excavation Area (approx. volume = 11,500 ft³)
- Historical Excavation Area
- Underground Storage Tank
- Abandoned
- E Electrical
- F Force Main
- G Gas Line
- SS Sanitary Sewer
- SD Storm Drain
- W Water

Notes

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

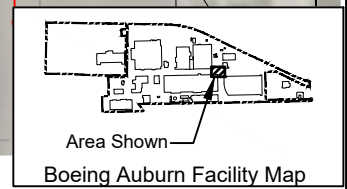
Base map source: Geomatrix 2003, ©Bing Imagery, 2018



Boeing Auburn
Feasibility Study
Auburn, Washington

AOC A-01: Conceptual Excavation Alternative

Figure
5-1



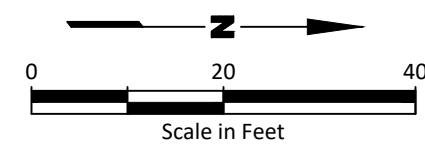
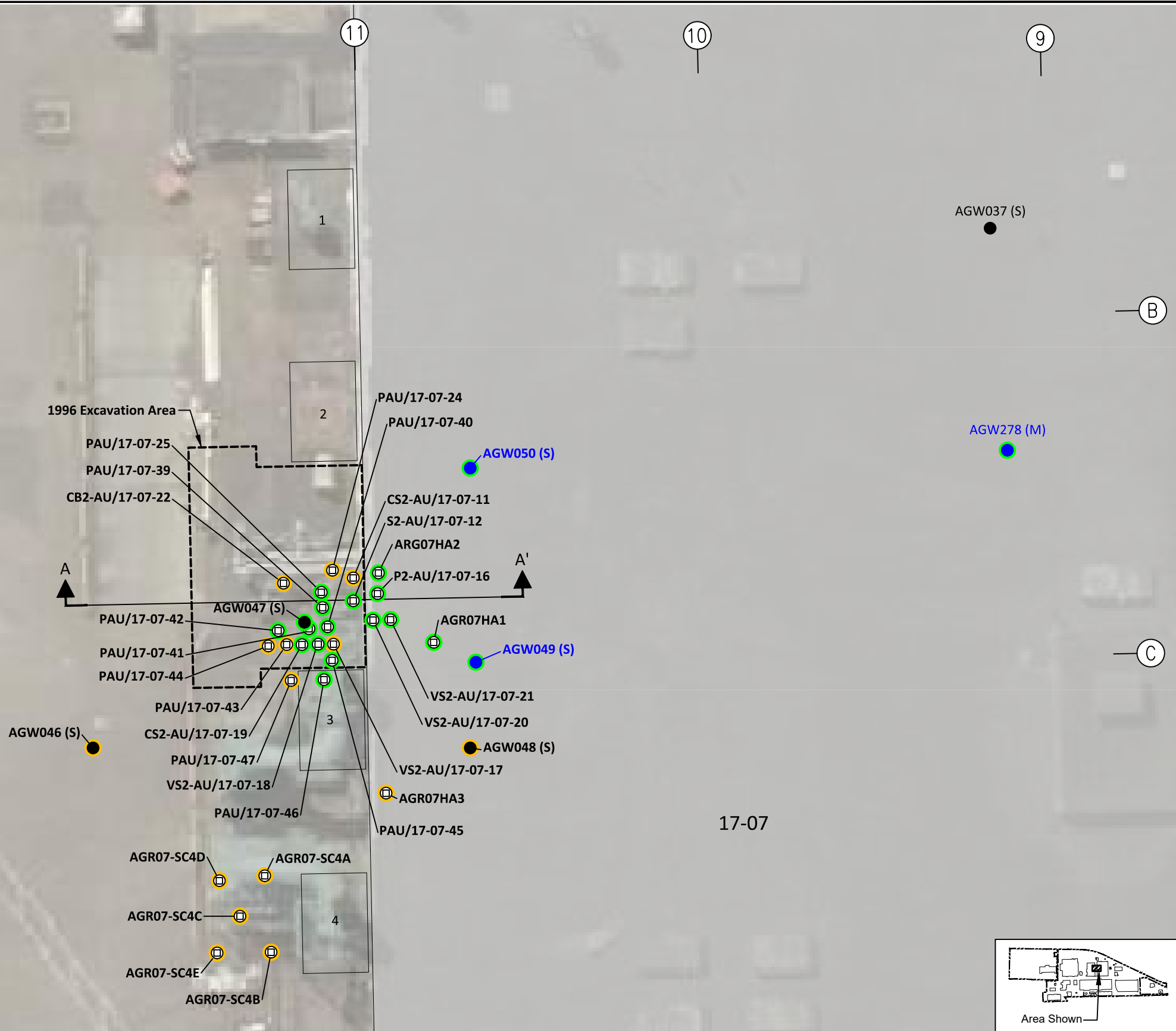
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Legend

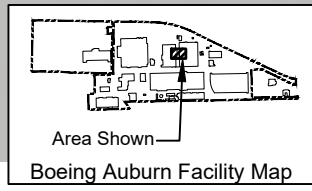
- AGW016 ● Monitoring Well Location
- AGW046 ● Wells Selected for A-09 Monitoring
- AGR07HA1 ⊕ Pre-FS Grab Sample Location (Locations are Approximate)
- No highlighting = No detection
- Orange = Detection below pCUL
- Green = Exceedance of pCUL
- 1 Scrubber
- 17-07 Current Building and Number
- (B) (11) Building 17-07 Column Designations
- A A' Cross Section Location

Notes

1. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. (S) = shallow zone, (I) = intermediate zone, (D) = deep zone, (M) = multi-level well; screens in multiple groundwater zones.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Sources: AGI Technologies, Figure 4, 1996; ©Bing, 2019



Legend

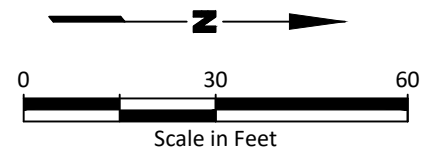
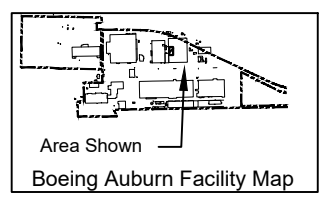
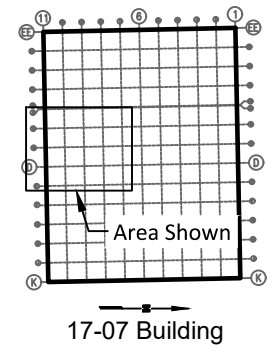
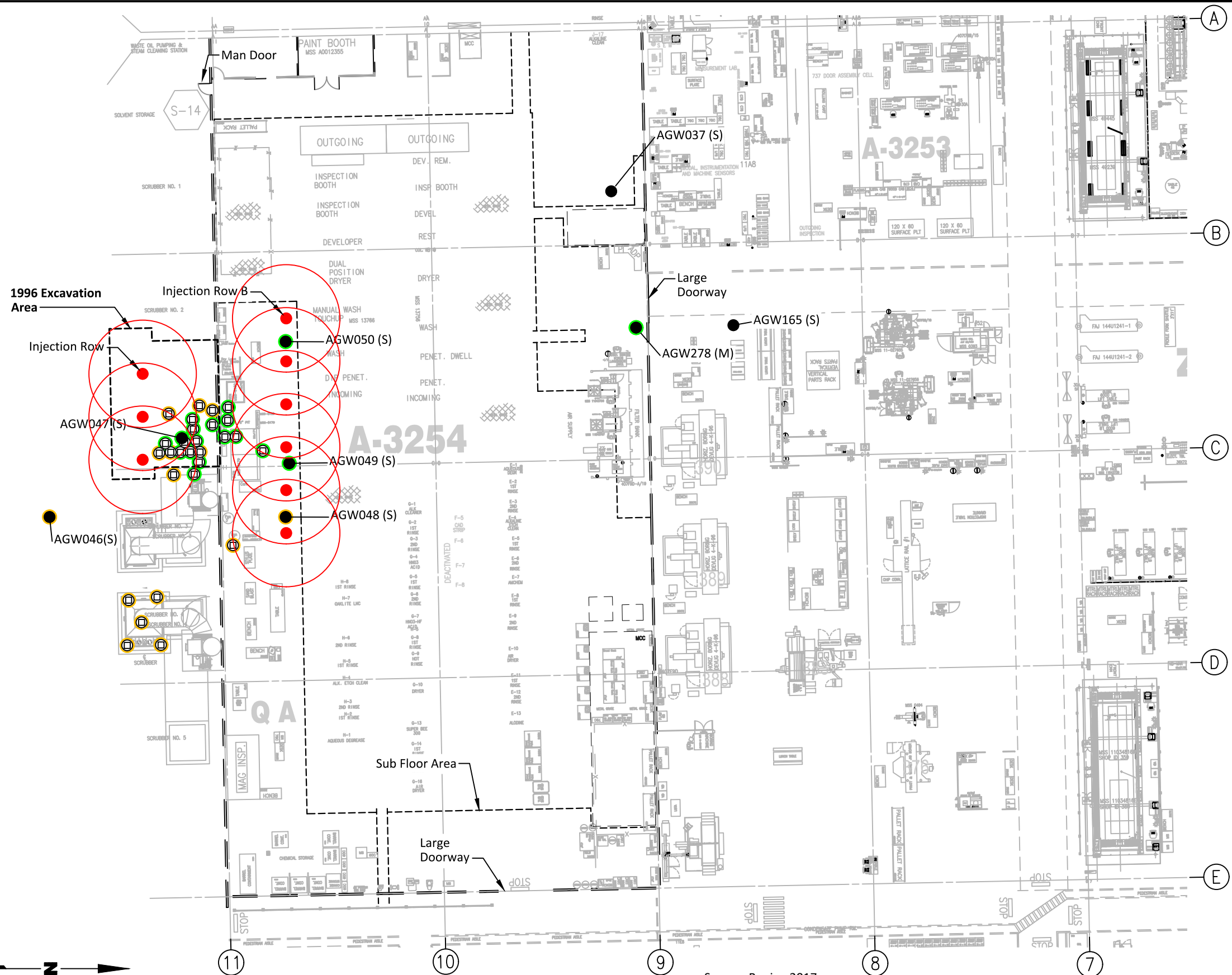
- Proposed Injection Well Location
- AGW037 (S) Monitoring Well Location
- Pre-FS Soil Grab Sample Location
- Radius of Injection (15 ft)

- No highlighting = No detection
- Orange = Detection below pCUL
- Green = Exceedance of pCUL

- Tank Line Area
- D 7 Building 17-07 Column Designations

Notes

1. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. (S) = shallow zone, (I) = intermediate zone, (D) = deep zone, (M) = multi-level well; screens in multiple groundwater zones.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Source: Boeing 2017

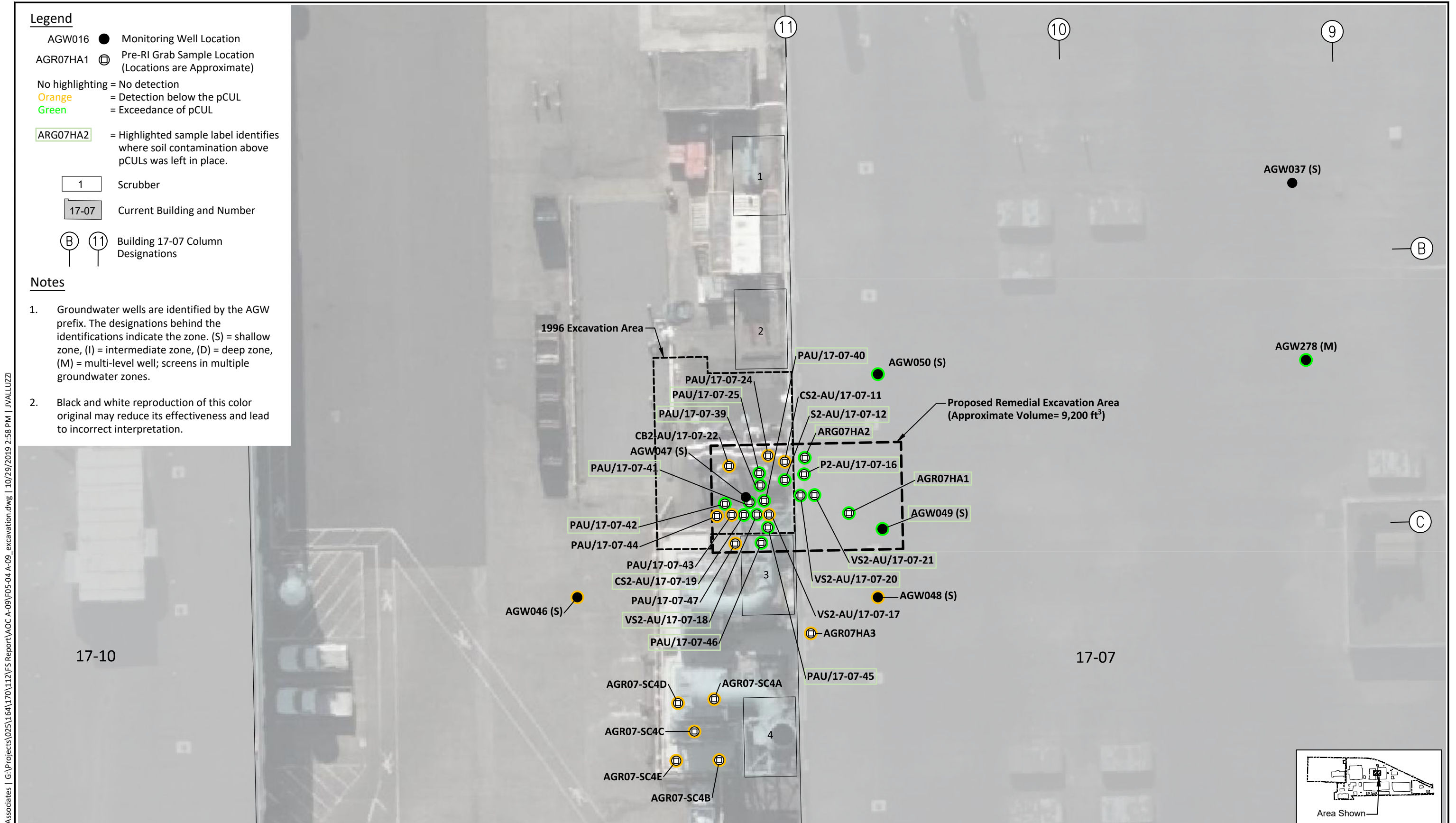
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Legend

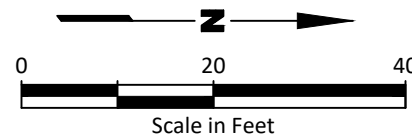
- AGW016 ● Monitoring Well Location
- AGR07HA1 ⊕ Pre-RI Grab Sample Location (Locations are Approximate)
- No highlighting = No detection
- Orange = Detection below the pCUL
- Green = Exceedance of pCUL
- ARG07HA2 = Highlighted sample label identifies where soil contamination above pCULs was left in place.
- 1 Scrubber
- 17-07 Current Building and Number
- B 11 Building 17-07 Column Designations

Notes

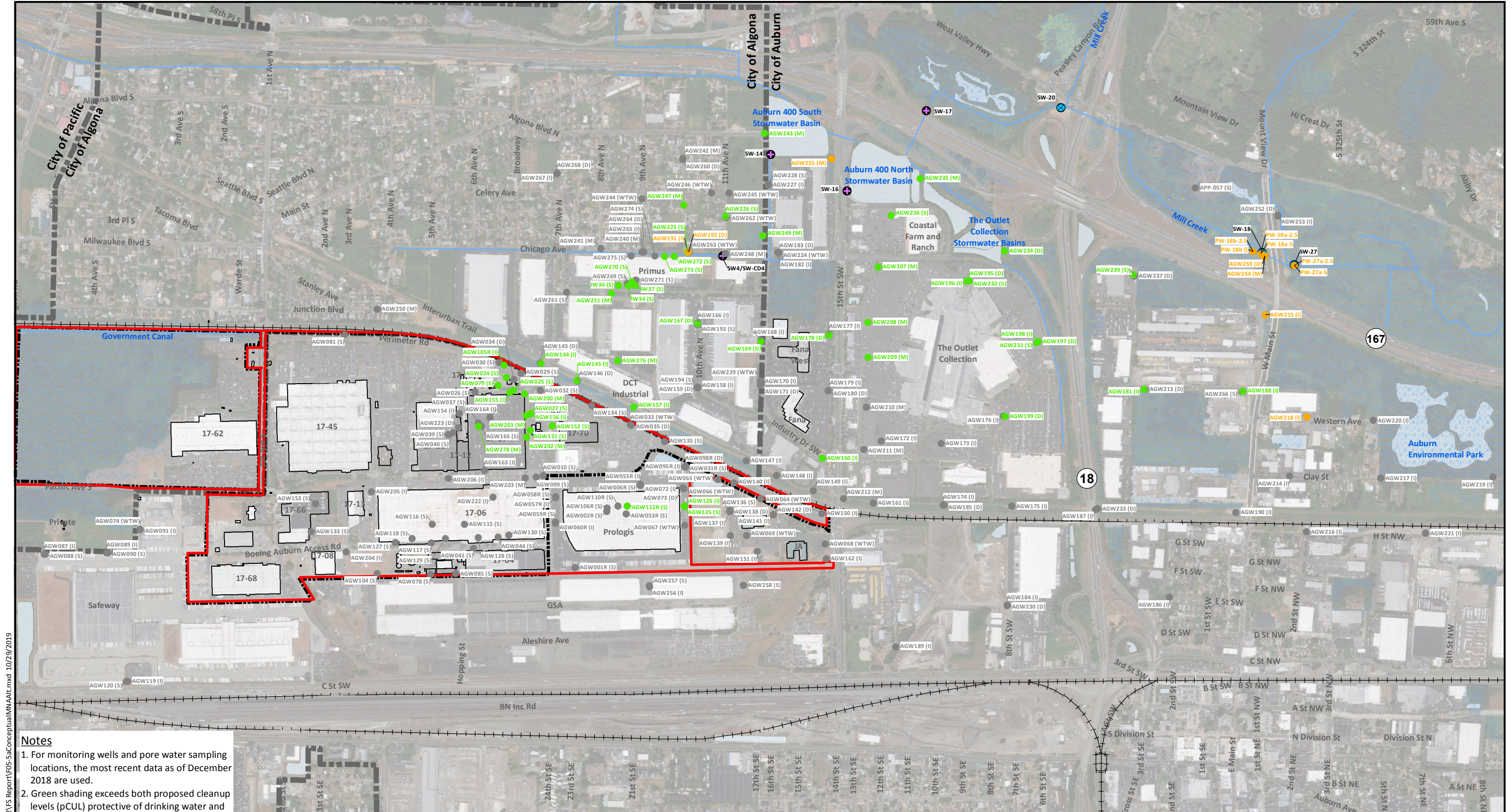
1. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. (S) = shallow zone, (I) = intermediate zone, (D) = deep zone, (M) = multi-level well; screens in multiple groundwater zones.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Sources: AGI Technologies, Figure 4, 1996; ©Bing, 2019



Boeing Auburn Feasibility Study Auburn, Washington	AOC A-09: Conceptual Future Excavation Alternative (Alternative B3)	Figure 5-4
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- Notes**
1. For monitoring wells and pore water sampling locations, the most recent data as of December 2018 are used.
 2. Green shading exceeds both proposed cleanup levels (pCUL) protective of drinking water and SWQS (surface water quality standards) in groundwater.
 3. Exceedances shown at multilevel wells reflect an exceedance in any channel.
 4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

AGW192 (D) ●	Boundary Well	—	Facility Boundary
AGW234 (D) ●	Exceedance of Groundwater pCUL (Protective of Drinking Water) (TCE > 4 µg/L and/or VC > 0.29 µg/L)	—	City Limits
AGW260 (D) ●	No Exceedance	—	Boeing Property
SW-17 ⊕	Ongoing Stormwater Sample Location	—	Wetland Areas
SW-20 ⊕	Ongoing Surface Water Sample Location	—	Water Bodies
		—	Waterways

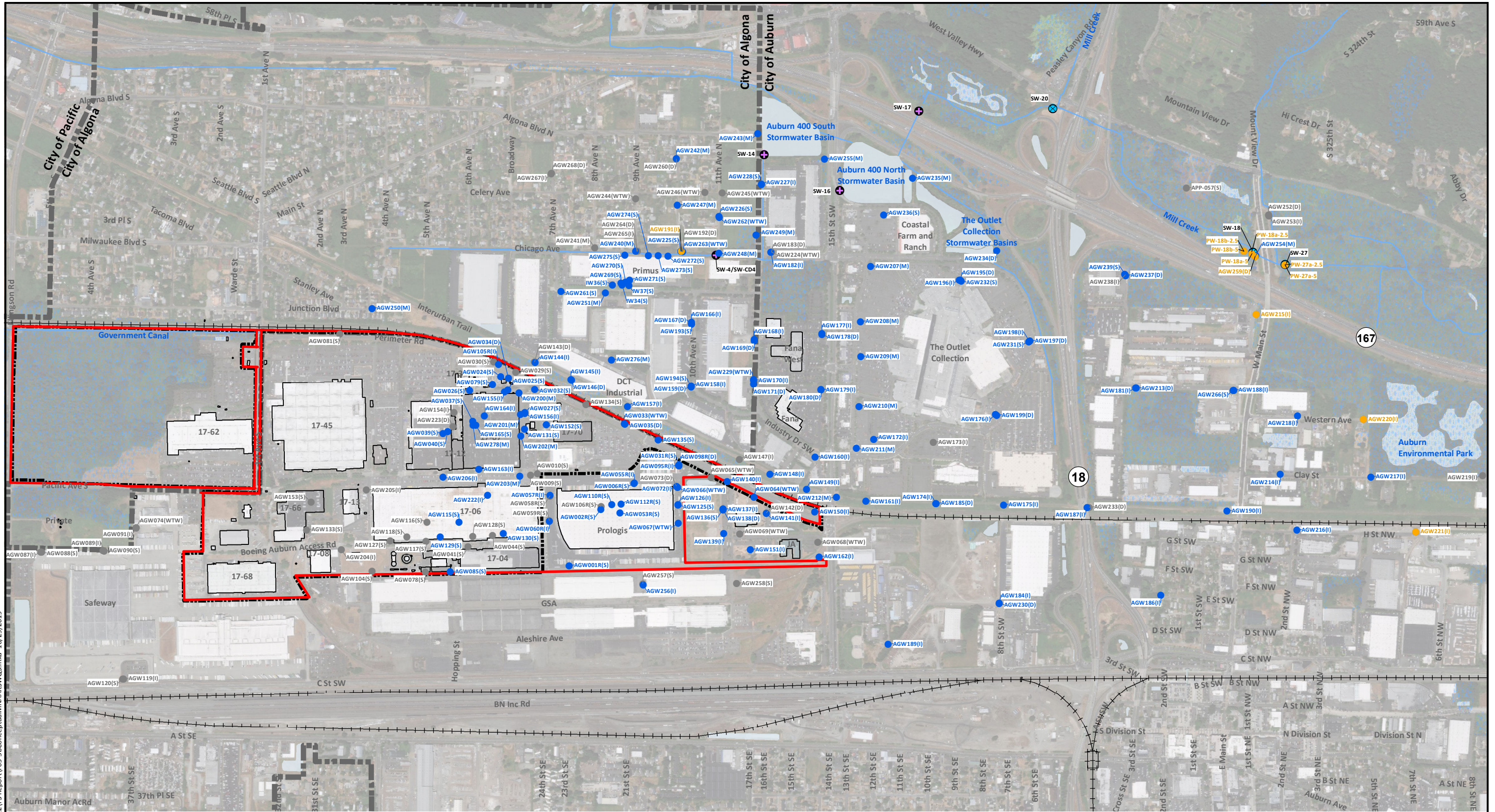
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Scale in Feet

Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2012

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Conceptual Monitored Natural Attenuation - pCULs Protective of Drinking Water (Alternative D1)	Figure 5-5a
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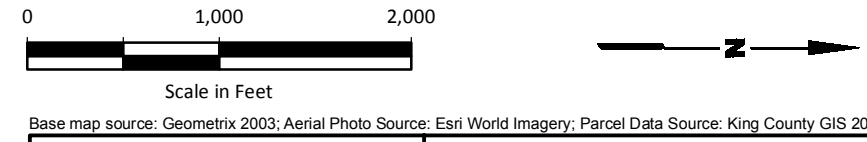
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Notes
 1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

- Legend**
- AGW191 (I) ● Boundary Well
 - AGW234 (D) ● Monitoring Well (Exceedance of SWQS in Groundwater)
 - AGW260 (D) ● Well Removed from Monitoring Well Network
 - SW-17 ● Ongoing Stormwater Sample Location
 - SW-20 ● Ongoing Surface Water Sample Location
 - Facility Boundary
 - City Limits
 - Boeing Property
 - Wetland Areas
 - Water Bodies
 - Waterways



Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2012

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Conceptual Monitored Natural Attenuation - SWQS in Groundwater (Alternative D1)	Figure 5-5b
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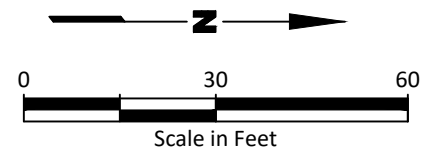
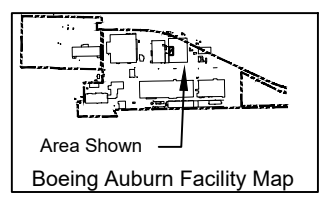
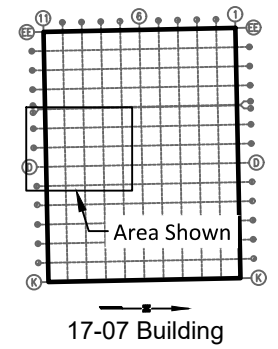
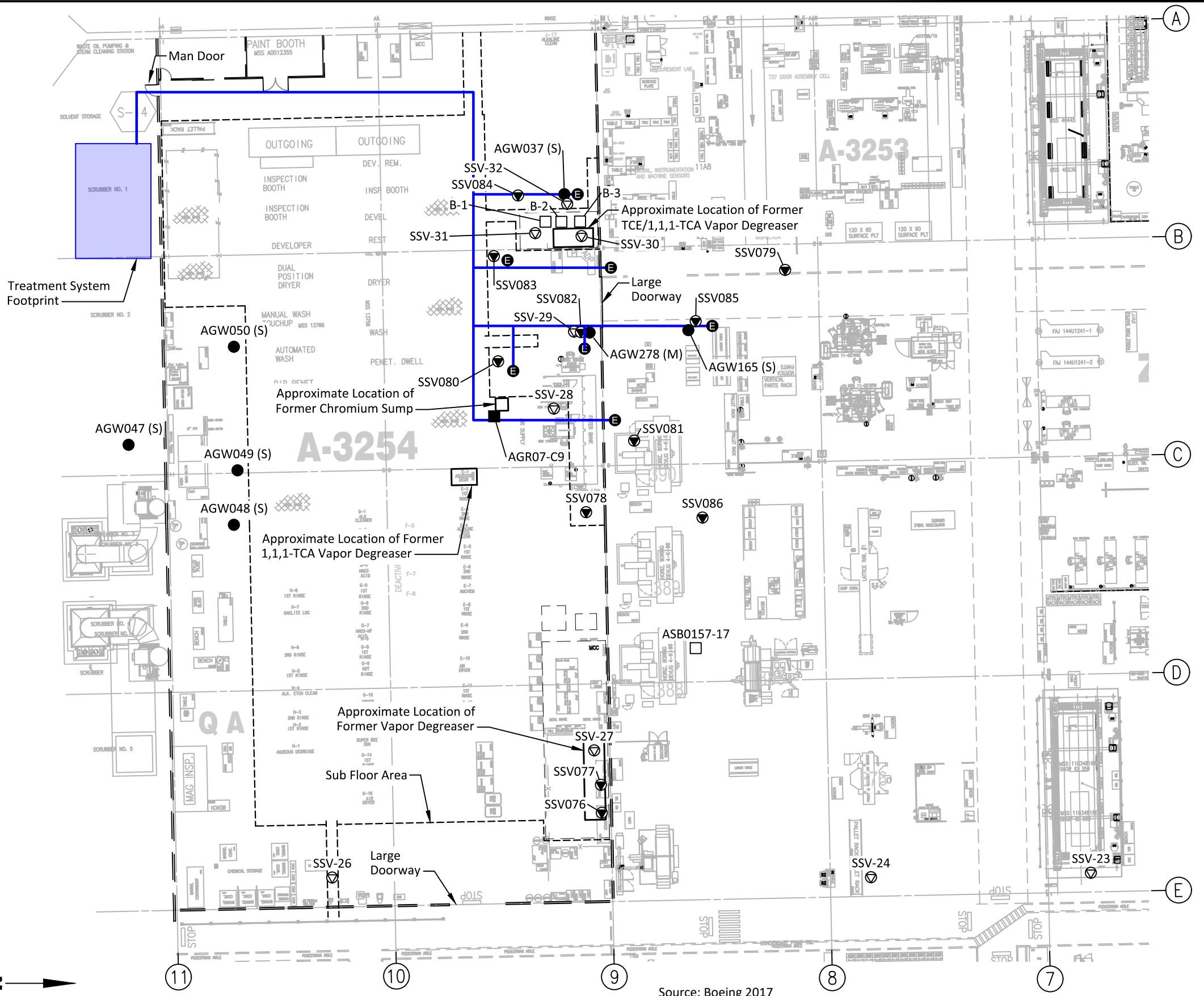
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Legend

- Conceptual SVE Wellpoint Location
- AGW050 (S) Monitoring Well Location
- AGR07-C9 FS Boring Location
- B-1 Pre-FS Boring Location
- SSV084 FS Sub-slab Vapor Sampling Location
- SSV-31 Pre-FS Sub-slab Vapor Sampling Location
- Conceptual SVE Piping
- Tank Line Area
- (D) (7) Building 17-07 Column Designations

Notes

1. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. (S) = shallow zone, (I) = intermediate zone, (D) = deep zone, (M) = multi-level well; screens in multiple groundwater zones.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

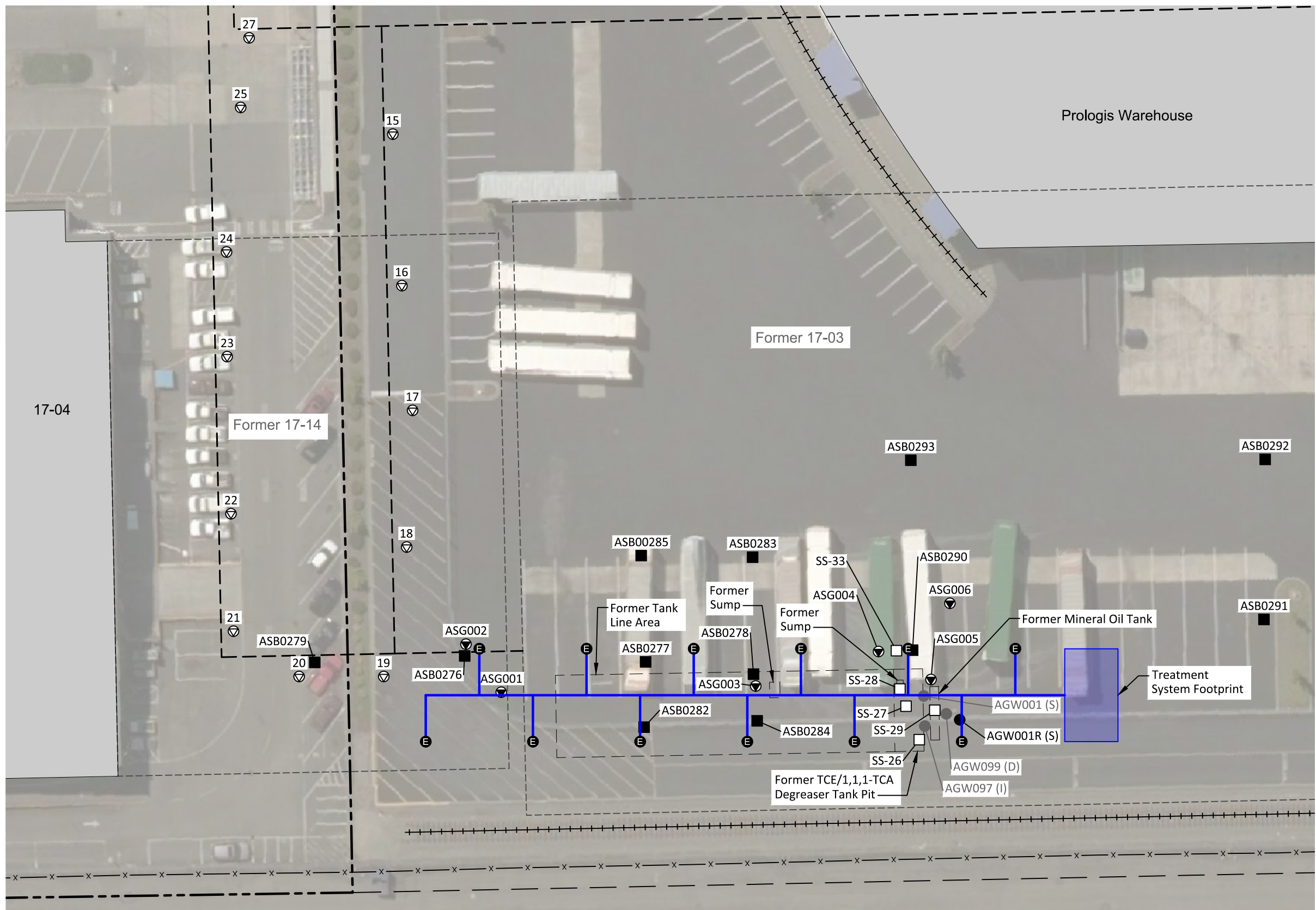


Source: Boeing 2017

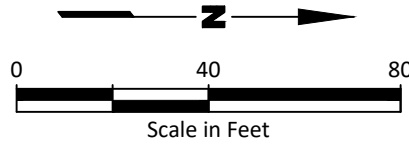
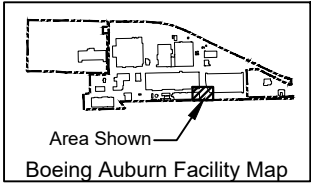


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- Legend**
- Conceptual SVE Wellpoint
 - ASB0280 FS Boring Location
 - SS-33 Pre-FS Boring Location
 - ASG001 FS Soil Gas Sampling Location
 - 18 Pre-FS Soil Gas Location
 - AGW001R (S) Monitoring Well Location
 - AGW001 (S) Decommissioned Well Location
 - 17-07 Current Building and Number
 - 17-14 Former Building and Number
 - Conceptual SVE Piping
 - Boeing Property Line
 - Adjacent Property Line
 - Existing Fence Line
 - Existing Railroad Track
 - Chrome Waste Line



- Notes**
1. Groundwater monitoring wells are identified by the AGW prefix. The designations beside the identifications indicate the zone (S) = Shallow zone, (I) = Intermediate zone, (D) = deep zone.
 2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Base map source: Geomatrix 2003; Kennedy Jenks



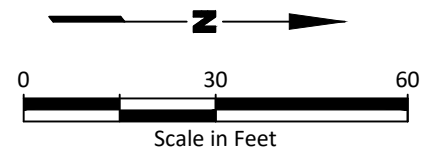
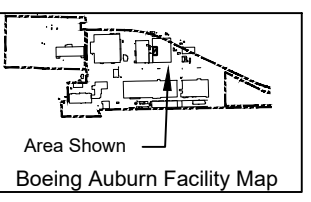
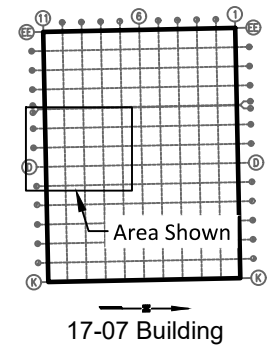
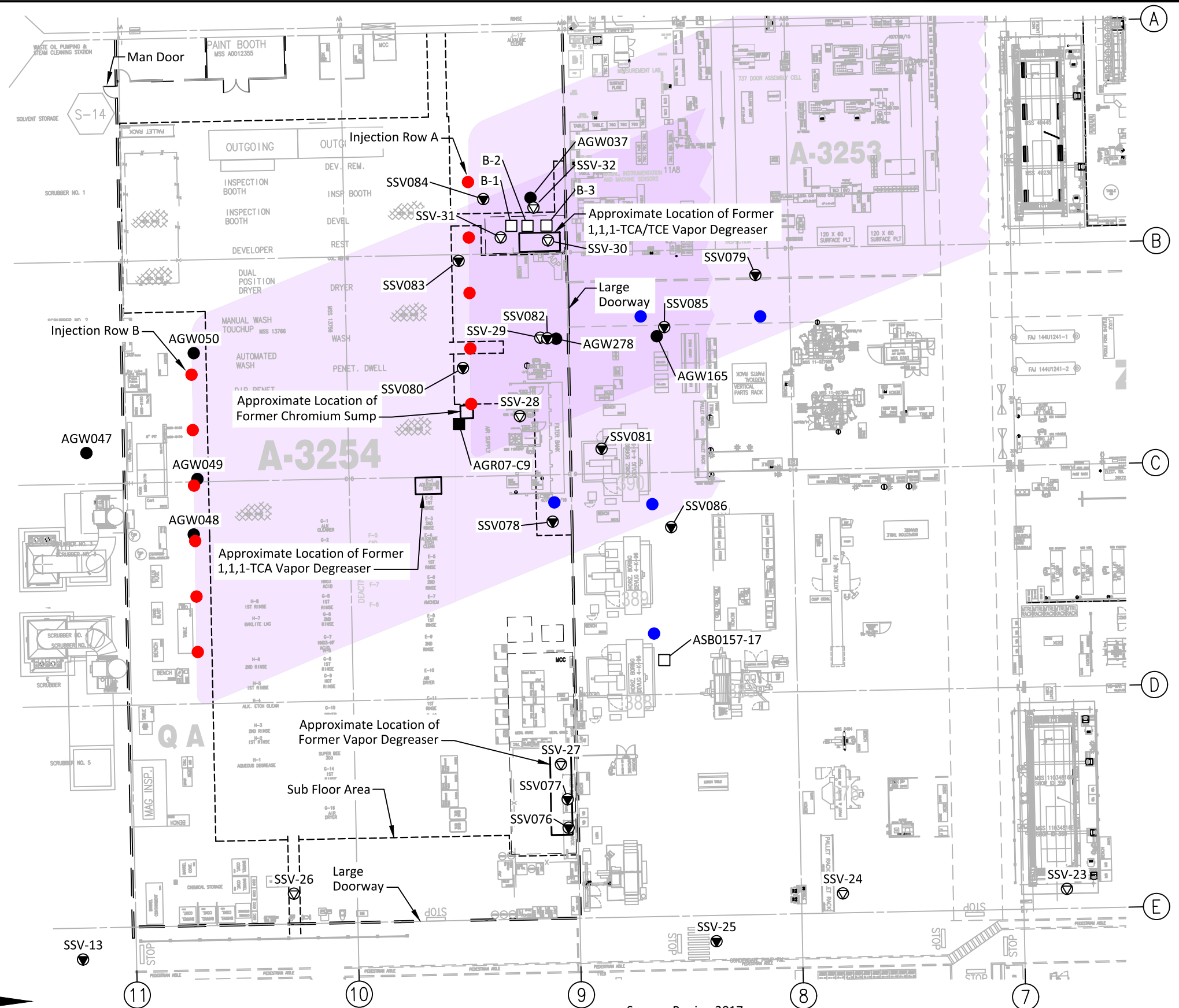
Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Conceptual SVE Alternative Former Building 17-03 Release Area (Alternatives D2, D3, and D5)	Figure 5-7
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Legend

- Proposed Injection Well Location
- Proposed Monitoring Well Location
- AGW050 ● Monitoring Well Location
- AGR07-C9 FS Boring Location
- B-1 Pre-FS Boring Location
- SSV084 ● FS Sub-slab Vapor Sampling Location
- SSV-31 Pre-FS Sub-slab Vapor Sampling Location
- Tank Line Area
- Building 17-07 Column Designations
- Approximate Expected Extent of Electron Donor from Enhanced *In Situ* Bioremediation (EISB) Injection Activities

Notes

1. Groundwater wells are identified by the AGW prefix. The designations behind the identifications indicate the zone. (S) = shallow zone, (I) = intermediate zone, (D) = deep zone, (M) = multi-level well; screens in multiple groundwater zones.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Source: Boeing 2017

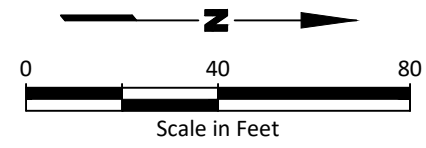
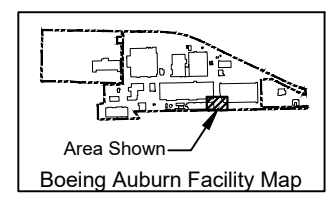
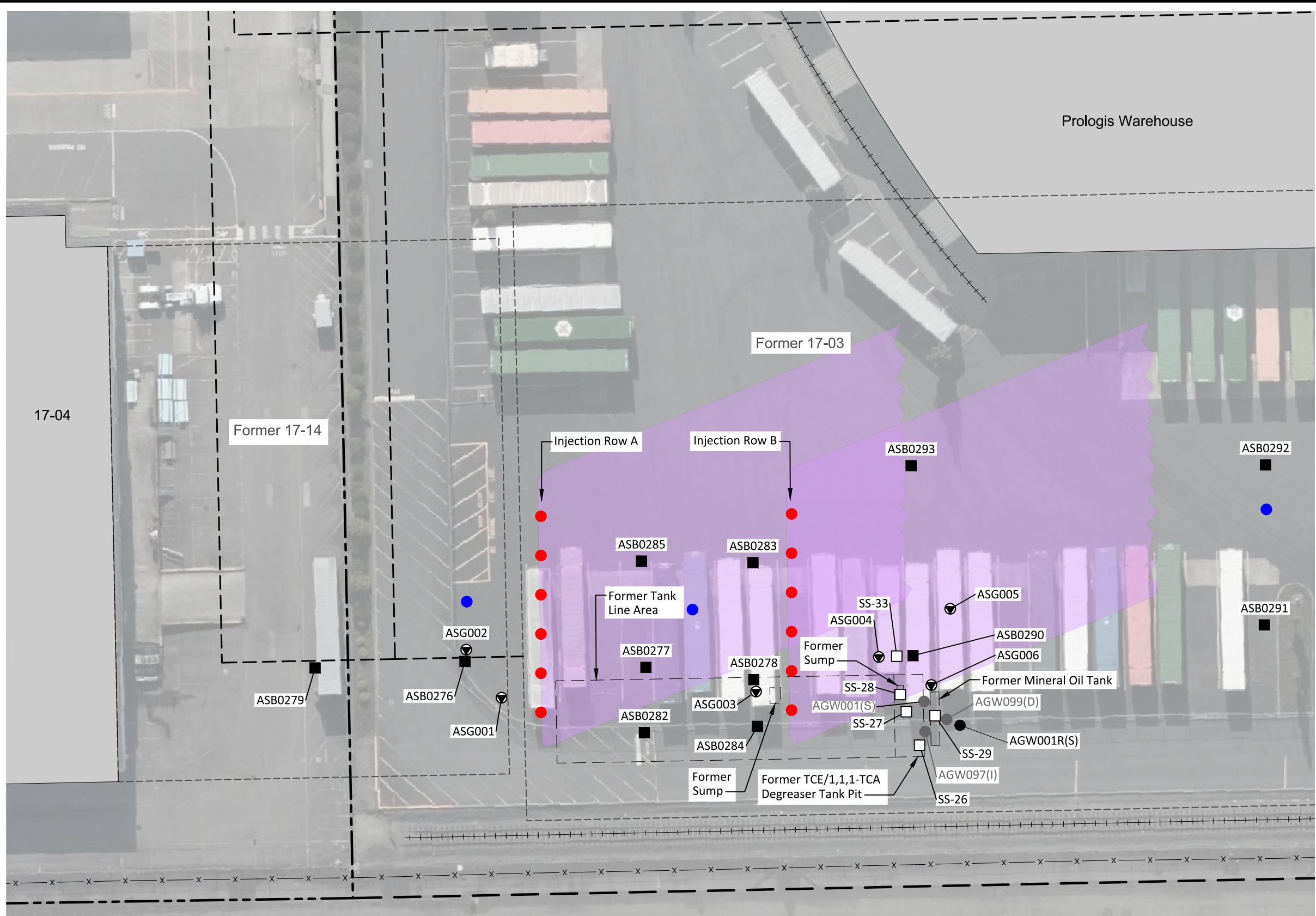
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Legend

- Proposed Injection Well Location
- Proposed Monitoring Well Location
- ASG0285 FS Boring Location
- SS-33 Pre-FS Boring Location
- ASG001 FS Soil Gas Sampling Location
- AGW001R Well Location
- AGW001 Decommissioned Well Location
- 17-07 Current Building and Number
- 17-14 Former Building and Number
- Boeing Property Line Adjacent
- Property Line
- Existing Fence Line
- Existing Railroad Track
- Former Chrome Waste Line
- Approximate Expected Extent of Electron Donor from Enhanced *In Situ* Bioremediation (EISB) Injection Activities

Notes

1. Groundwater borehole grab sample SS-33 was collected in October 1992.
2. Groundwater monitoring wells are identified by the AGW prefix. The designations beside the identifications indicate the zone (S) = Shallow zone, (I) = Intermediate zone, (D) = deep zone.
3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

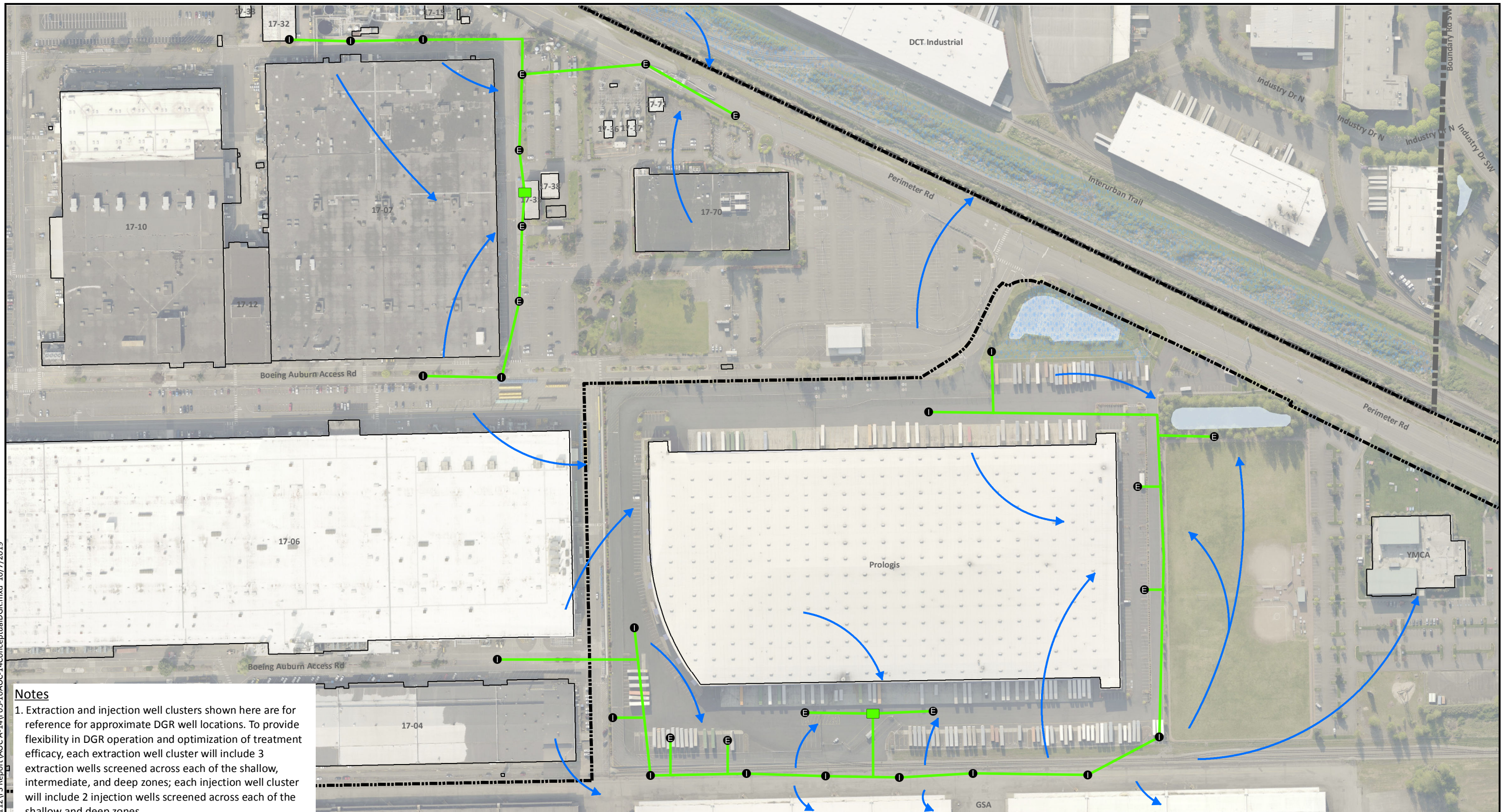


Base map source: Geomatrix 2003; Kennedy Jenks



Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Conceptual EISB Alternative, Former Building 17-03 Release Area (Alternatives D2 and D5)	Figure 5-9
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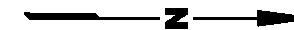


Notes

1. Extraction and injection well clusters shown here are for reference for approximate DGR well locations. To provide flexibility in DGR operation and optimization of treatment efficacy, each extraction well cluster will include 3 extraction wells screened across each of the shallow, intermediate, and deep zones; each injection well cluster will include 2 injection wells screened across each of the shallow and deep zones.
2. Extraction and injection wells are located to provide DGR treatment to known or presumed VOC source areas as well as to observed elevated VOC concentrations in groundwater.
3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Extraction Well Cluster
- Injection Well Cluster
- Treatment System Location
- Conveyance/Conduit Trench
- Generalized Groundwater Flow Lines
- Boeing Property
- City Limits
- Wetland Areas



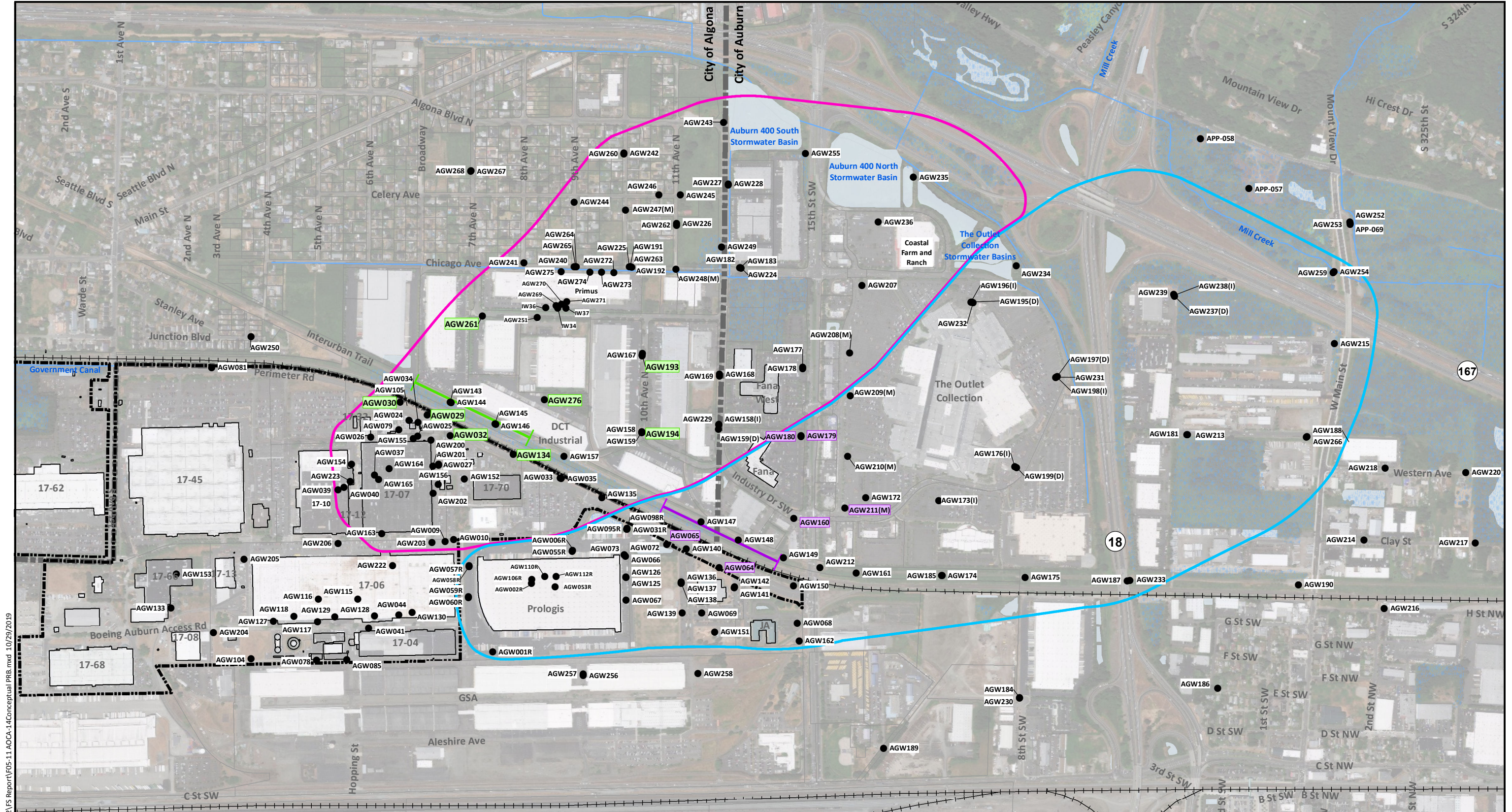
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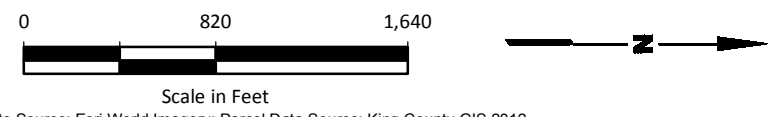
Scale in Feet

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Conceptual Dynamic Groundwater Recirculation Alternative (Alternative D3)	Figure 5-10
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Notes
 1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

- Legend**
- Monitoring Well
 - Boeing Property
 - ▭ Western Plume PRB Injection Row
 - ▭ Western Plume PRB Monitoring Location
 - ▭ Area 1 Plume PRB Injection Row
 - ▭ Area 1 Plume PRB Monitoring Location
 - City Limits
 - Wetland Areas
 - Water Bodies
 - Waterways

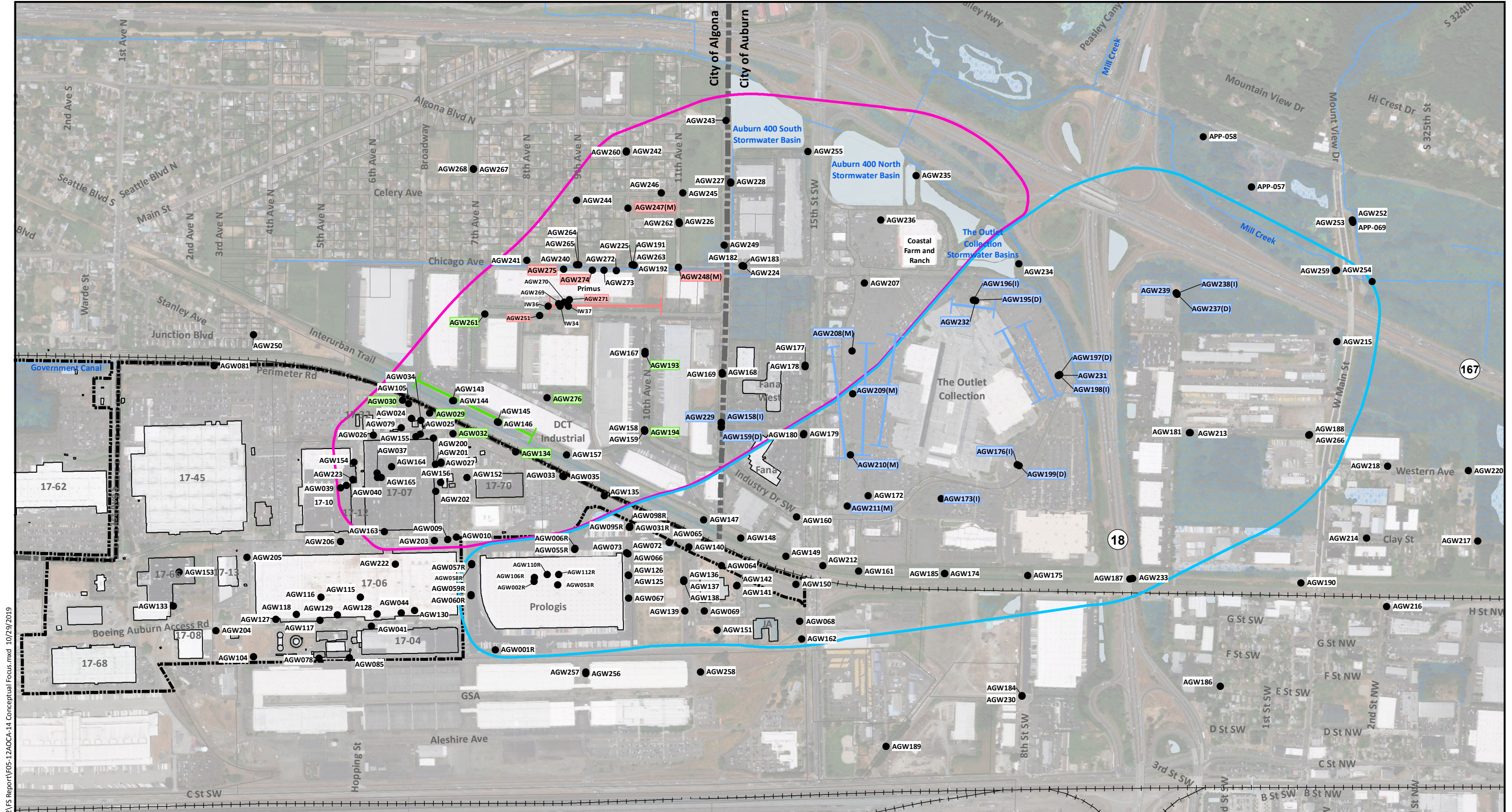


Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2012

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Conceptual Permeable Reactive Barrier Alternative (Alternative D4)	Figure 5-11
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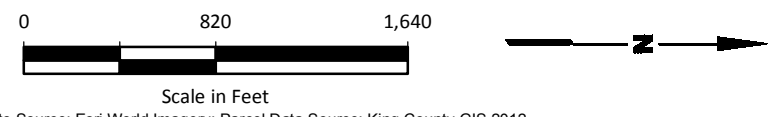




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Notes
 1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

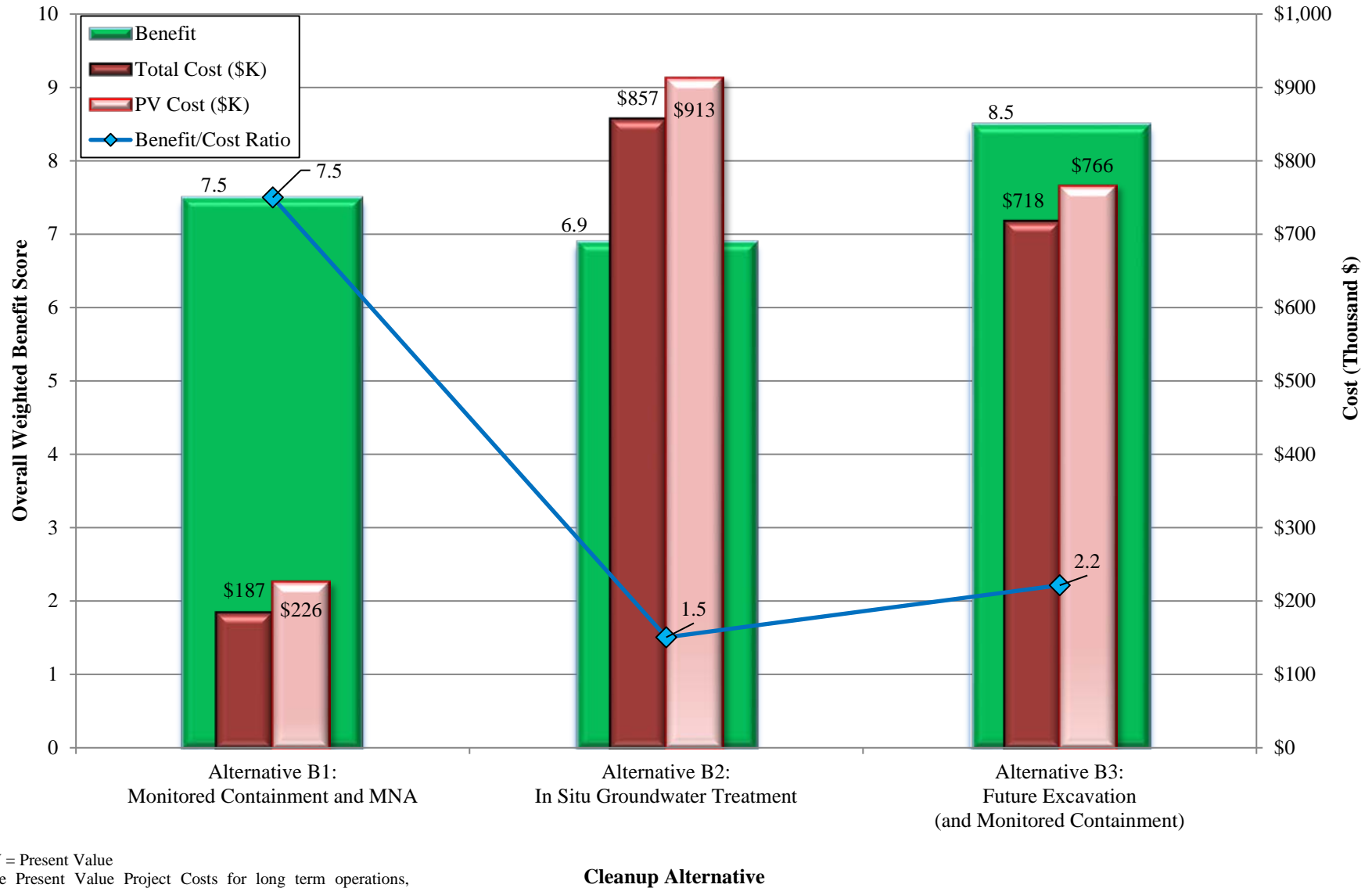
- Legend**
- Monitoring Well
 - Boeing Property
 - ▭ Facility Boundary Injection Row
 - ▭ Facility Boundary Monitoring Location
 - ▭ Area 1 Plume
 - ▭ Wetland Areas
 - ▭ Western Plume
 - ▭ Water Bodies
 - ▭ Algona Injection Row
 - ▭ Algona Monitoring Location
 - ▭ City Limits
 - ▭ Waterways
 - ▭ The Outlet Collection Injection Row
 - ▭ The Outlet Collection Monitoring Location



Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2012

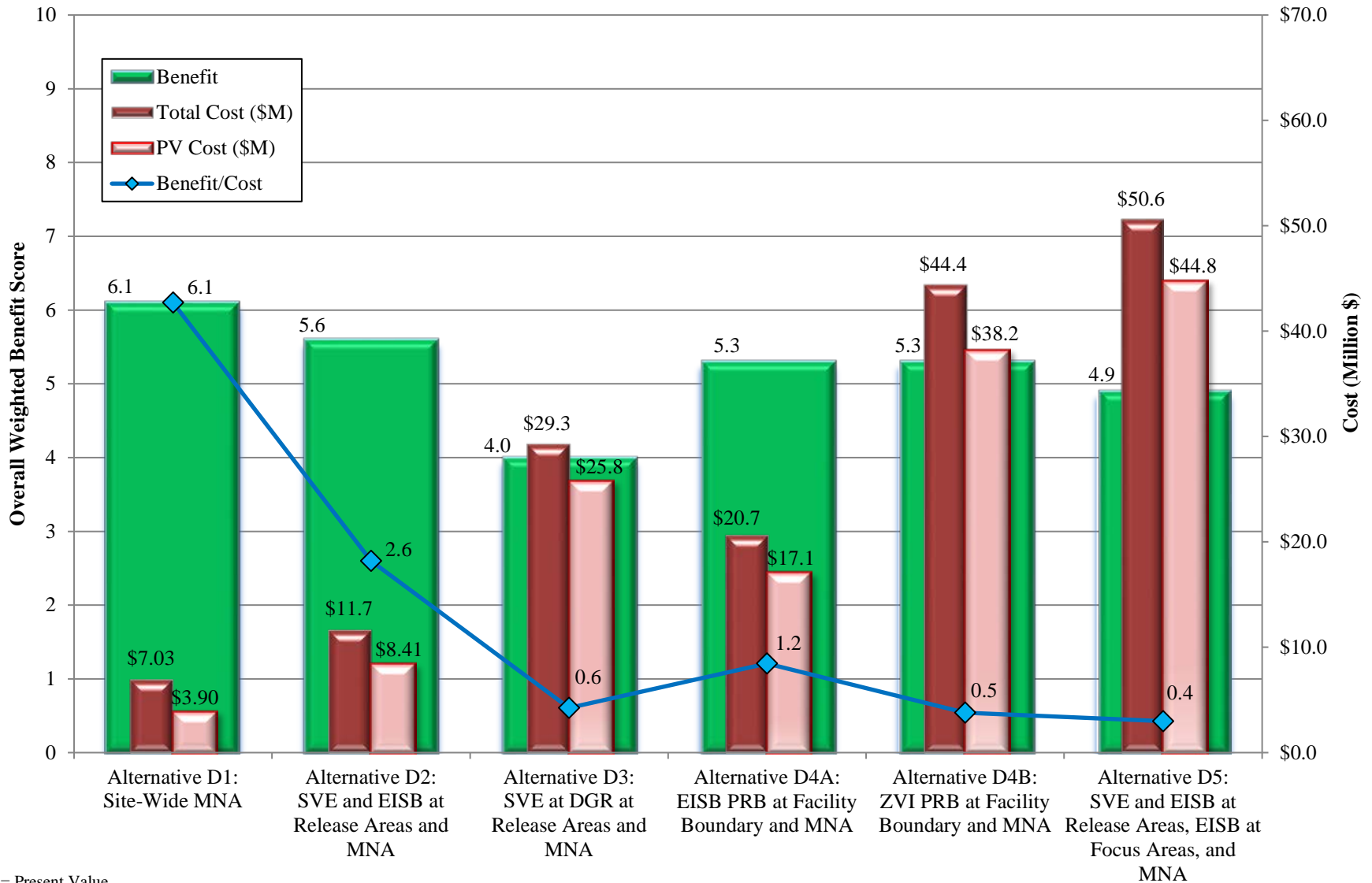
Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Conceptual EISB Focus Areas Alternative (Alternative D5)	Figure 5-12
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PV = Present Value
 The Present Value Project Costs for long term operations, maintenance, and monitoring. (Assume 1.5% discount rate – real discount, 30-year note, Per Office of Management and Budget, Circular A-94 Appendix C, Revised Nov. 2018).





PV = Present Value
 The Present Value Project Costs for long term operations, maintenance, and monitoring. (Assume 1.5% discount rate – real discount, 30-year note, Per Office of Management and Budget, Circular A-94 Appendix C, Revised Nov. 2018).

Cleanup Alternative

Boeing Auburn Feasibility Study Auburn, Washington	AOC A-14: Summary of MTCA Alternatives Relative Benefits Ranking (Groundwater pCULs)	Figure 6-2
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