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ENVIRONMENTAL | GEOTECHNICAL | NATURAL RESOURCES

To: Washington State Department of Ecology Date: September 23, 2014

Attn: Robin Harrover and Neal Hines Project No.: 0025164.110

RE: Boeing Auburn Facility – June and July 2014 Groundwater Concentration and Elevation Contour Figures

Copies	Description
1 set	Figures of Groundwater Concentration and Elevation Contours From June and July 2014 Data

Ms. Harrover and Mr. Hines:

Included are the Boeing Auburn groundwater concentration figures updated with the data from the June 2014 sampling event and new well and direct-push borehole sampling in July 2014 and groundwater elevation contour figures updated with the data from July 2014.

Figure 1: Current Monitoring Well Network
Figure 2: Water Table Zone TCE Concentrations Most Recent – June 2014
Figure 3: Water Table Zone cis-1,2-DCE Concentrations Most Recent – June 2014
Figure 4: Water Table Zone Vinyl Chloride Concentrations Most Recent – June 2014
Figure 5: Shallow Zone (15-30 ft) TCE Concentrations Most Recent – June 2014
Figure 6: Shallow Zone (15-30 ft) cis-1,2-DCE Concentrations Most Recent – June 2014
Figure 7: Shallow Zone (15-30 ft) Vinyl Chloride Concentrations Most Recent – June 2014
Figure 8: Intermediate Zone (40-60 ft) TCE Concentrations Most Recent – June 2014
Figure 9: Intermediate Zone (40-60 ft) cis-1,2-DCE Concentrations Most Recent – June 2014
Figure 10: Intermediate Zone (40-60 ft) Vinyl Chloride Concentrations Most Recent – June 2014
Figure 11: Deep Zone (80-100 ft) TCE Concentrations Most Recent – June 2014
Figure 12: Deep Zone (80-100 ft) cis-1,2-DCE Concentrations Most Recent – June 2014
Figure 13: Deep Zone (80-100 ft) Vinyl Chloride Concentrations Most Recent – June 2014
Figure 14: Shallow Zone (20-30 ft) Groundwater Elevation Contours July 2014
Figure 15: Intermediate Zone (40-60 ft) Groundwater Elevation Contours July 2014
Figure 16: Deep Zone (80-100 ft) Groundwater Elevation Contours July 2014

If you have any questions regarding these figures, or need any other information please do not hesitate to call Jennifer Wynkoop at (253) 284-4879 with any comments or questions.

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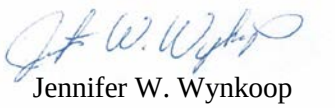
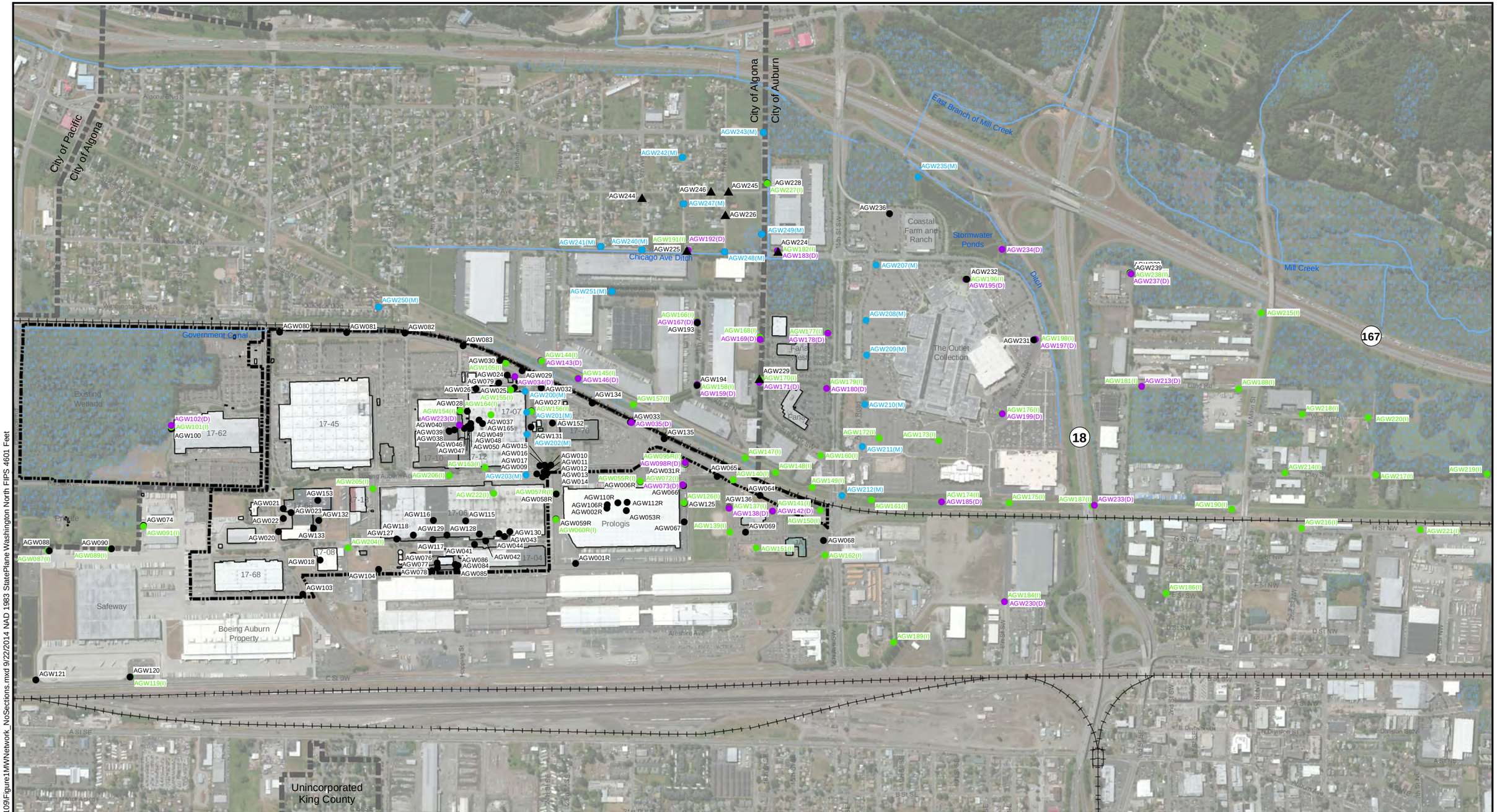


Jennifer W. Wynkoop
Senior Associate
JWW/SEF/bar
9/23/14 Y:\025\164\C\2013\TransLtrsToECY\Plume and Water Level Maps Transmittal_080613.docx

cc: James Bet, The Boeing Company (email only)
Jim Swortz, The Boeing Company



Note

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

Legend

- Offsite Water Table Well
- Shallow Monitoring Well (2 to 30 ft BGS)
- (I) Intermediate Monitoring Well (40 to 60 ft BGS)
- (D) Deep Monitoring Well (80 to 100 ft BGS)
- (M) Multi-Level Well
- Wetland Areas
- Water Bodies
- Waterways

N

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

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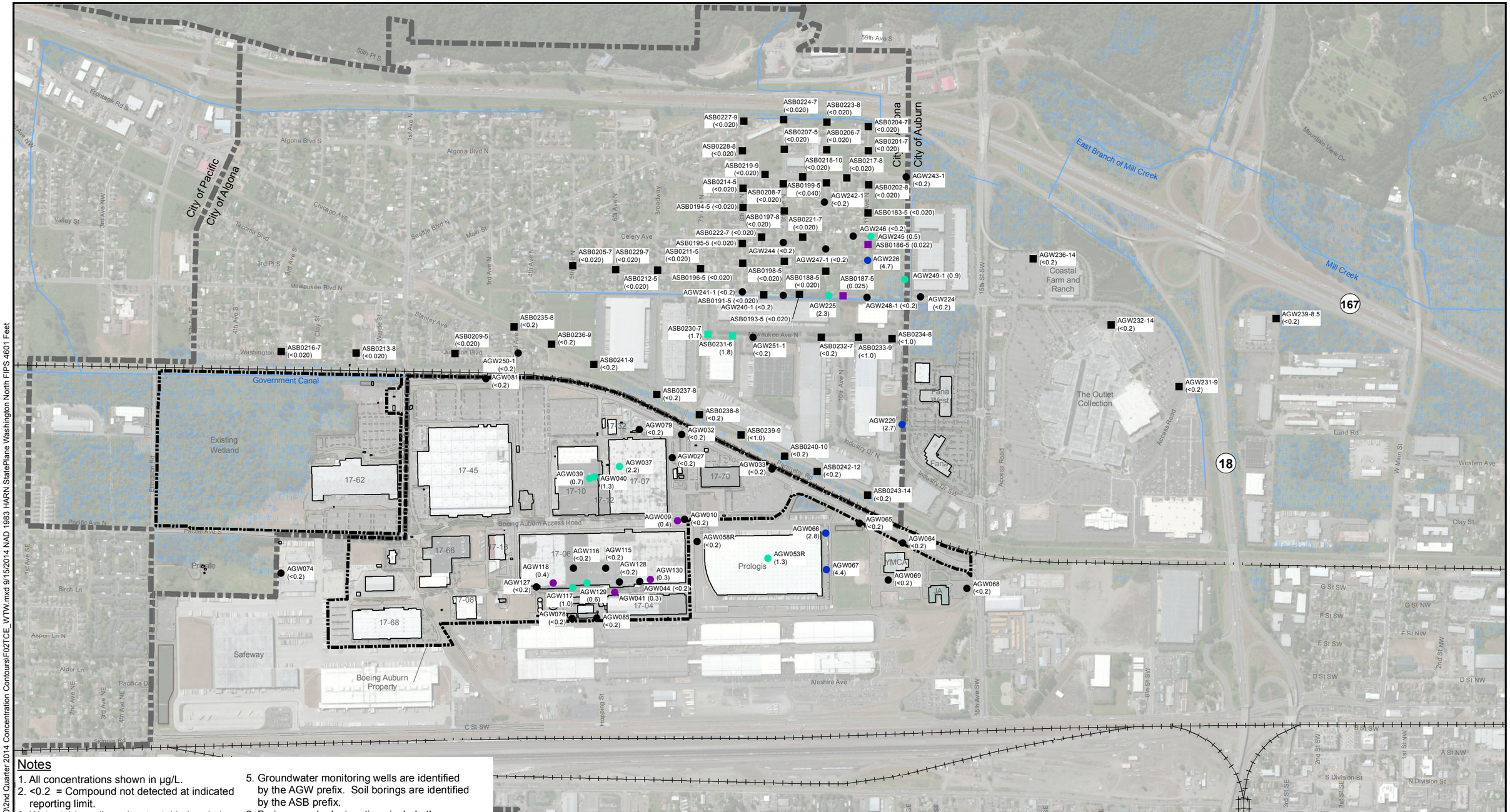
Boeing Auburn Auburn, Washington	**Current Monitoring Well Network**	Figure 1

G:\Projects\025\164\110\109Figure1MWNetwork_NoSections.mxd 9/22/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



G:\Projects\025\164110\110\2nd Quarter 2014 Concentration Contours\F02TCE_WTW.mxd 9/15/2014 NAD 1983 HARN StatePlane Washington North FIPS 4601 Feet

Notes

1. All concentrations shown in µg/L.
2. <0.2 = Compound not detected at indicated reporting limit.
3. Water table wells and water table borehole samples are screened across the top of the water table.
4. Monitoring well results are the most recent. Direct-push boring results are from April 2013 and Summer 2014. Borehole grab samples from monitoring wells were collected at time of drilling.
5. Groundwater monitoring wells are identified by the AGW prefix. Soil borings are identified by the ASB prefix.
6. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
7. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW240-1). Channel 1 is screened across the water table.
8. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Water Table Well Location
- Water Table Zone Borehole Grab Sample Location
- TCE Detection = > 5 µg/L
- TCE Detection = > 2.4-5 µg/L
- TCE Detection = 0.5-2.4 µg/L
- TCE Detection = < 0.5 µg/L
- Non-Detect
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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 2013

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Boeing Auburn Auburn, Washington	**Water Table Zone TCE Concentrations Most Recent – June 2014**	Figure 2

G:\Projects\025\164111\110\2nd Quarter 2014 Concentration Contours\F03CDCE_WTW.mxd 9/15/2014 NAD 1983 HARN StatePlane Washington North FIPS 4601 Feet

Notes

1. All concentrations shown in µg/L.
2. <0.2 = Compound not detected at indicated reporting limit.
3. Water table wells and water table borehole samples are screened across the top of the water table.
4. Monitoring well results are the most recent. Direct-push boring results are from April 2013 and Summer 2014. Borehole grab samples from monitoring wells were collected at time of drilling.
5. Groundwater monitoring wells are identified by the AGW prefix. Soil borings are identified by the ASB prefix.
6. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
7. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW240-1). Channel 1 is screened across the water table.
8. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Water Table Well Location
- Water Table Zone Borehole Grab Sample Location
- cis-1,2-DCE Detection = > 5 µg/L
- cis-1,2-DCE Detection = > 2.4-5 µg/L
- cis-1,2-DCE Detection = 0.5-2.4 µg/L
- cis-1,2-DCE Detection = < 0.5 µg/L
- Non-Detect
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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Scale in Feet

Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2013

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Boeing Auburn Auburn, Washington	**Water Table Zone cis-1,2-DCE Concentrations Most Recent – June 2014**	Figure 3

G:\Projects\025\164111\110\2nd Quarter 2014 Concentration Contours\F04VC_WTW.mxd 9/15/2014 NAD 1983 HARN StatePlane Washington North FIPS 4601 Feet

Notes

1. All concentrations shown in µg/L.
2. <0.2 = Compound not detected at indicated reporting limit.
3. Water table wells and water table borehole samples are screened across the top of the water table.
4. Monitoring well results are the most recent. Direct-push boring results are from April 2013 and Summer 2014. Borehole grab samples from monitoring wells were collected at time of drilling.
5. Groundwater monitoring wells are identified by the AGW prefix. Soil borings are identified by the ASB prefix.
6. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
7. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW240-1). Channel 1 is screened across the water table.
8. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

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Legend

- Water Table Well Location
- Water Table Zone Borehole Grab Sample Location
- Vinyl Chloride Detection = > 5 µg/L
- Vinyl Chloride Detection = > 2.4-5 µg/L
- Vinyl Chloride Detection = 0.5-2.4 µg/L
- Vinyl Chloride Detection = < 0.5 µg/L
- Non-Detect
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

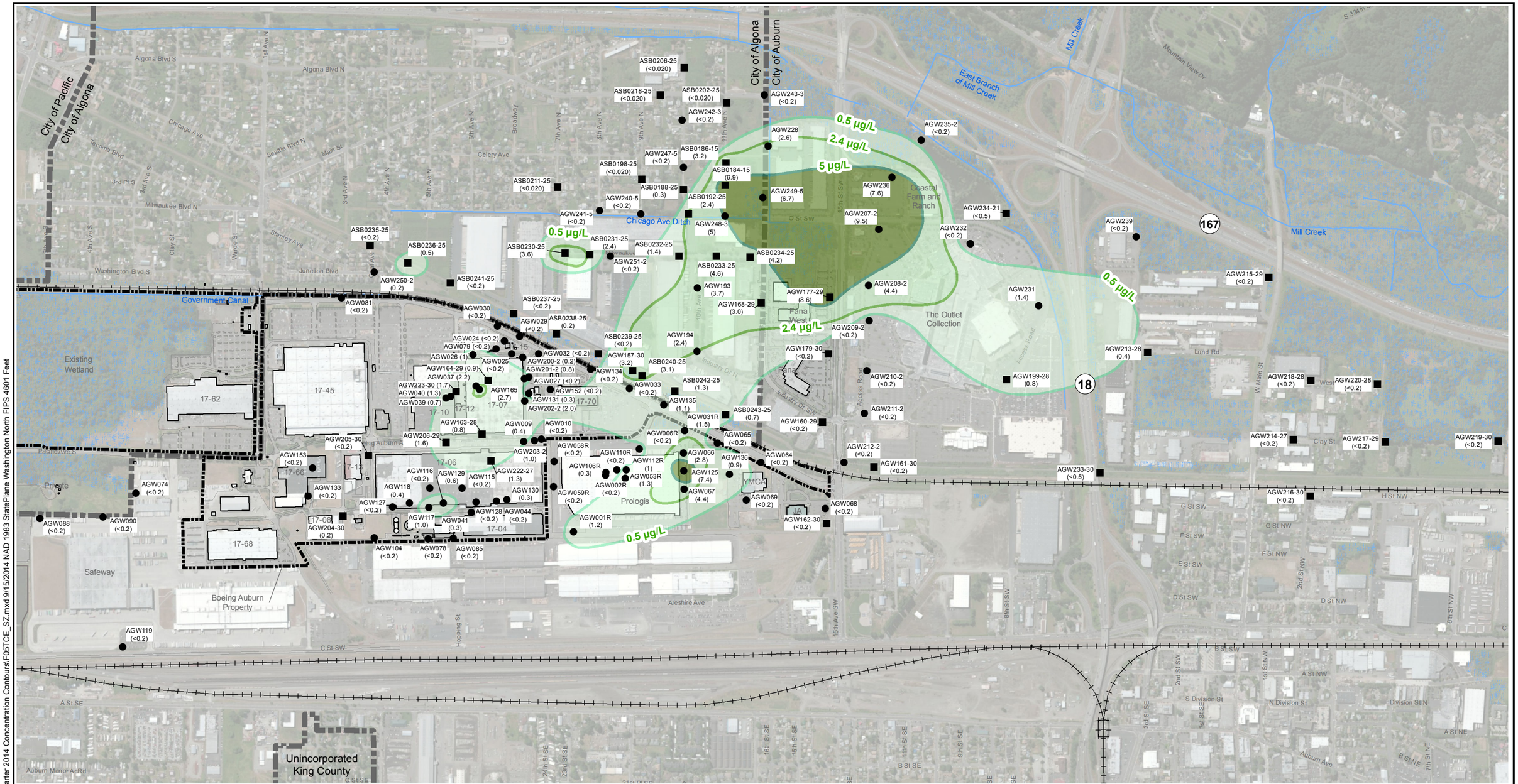
N

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 2013

Boeing Auburn Auburn, Washington	**Water Table Zone Vinyl Chloride Concentrations Most Recent – June 2014**	Figure 4



Notes

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2. <0.2 = Compound not detected at indicated reporting limit.
3. Monitoring well results are the most recent. Direct-push boring results are from April 2013 and Summer 2014. Borehole grab samples from monitoring wells were collected at time of drilling.
4. Groundwater monitoring wells are identified by the AGW prefix. Soil borings are identified by the ASB prefix.
5. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- TCE Contour = > 5.0 µg/L
- TCE Contour = > 2.4 µg/L
- TCE Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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Scale in Feet

Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2013

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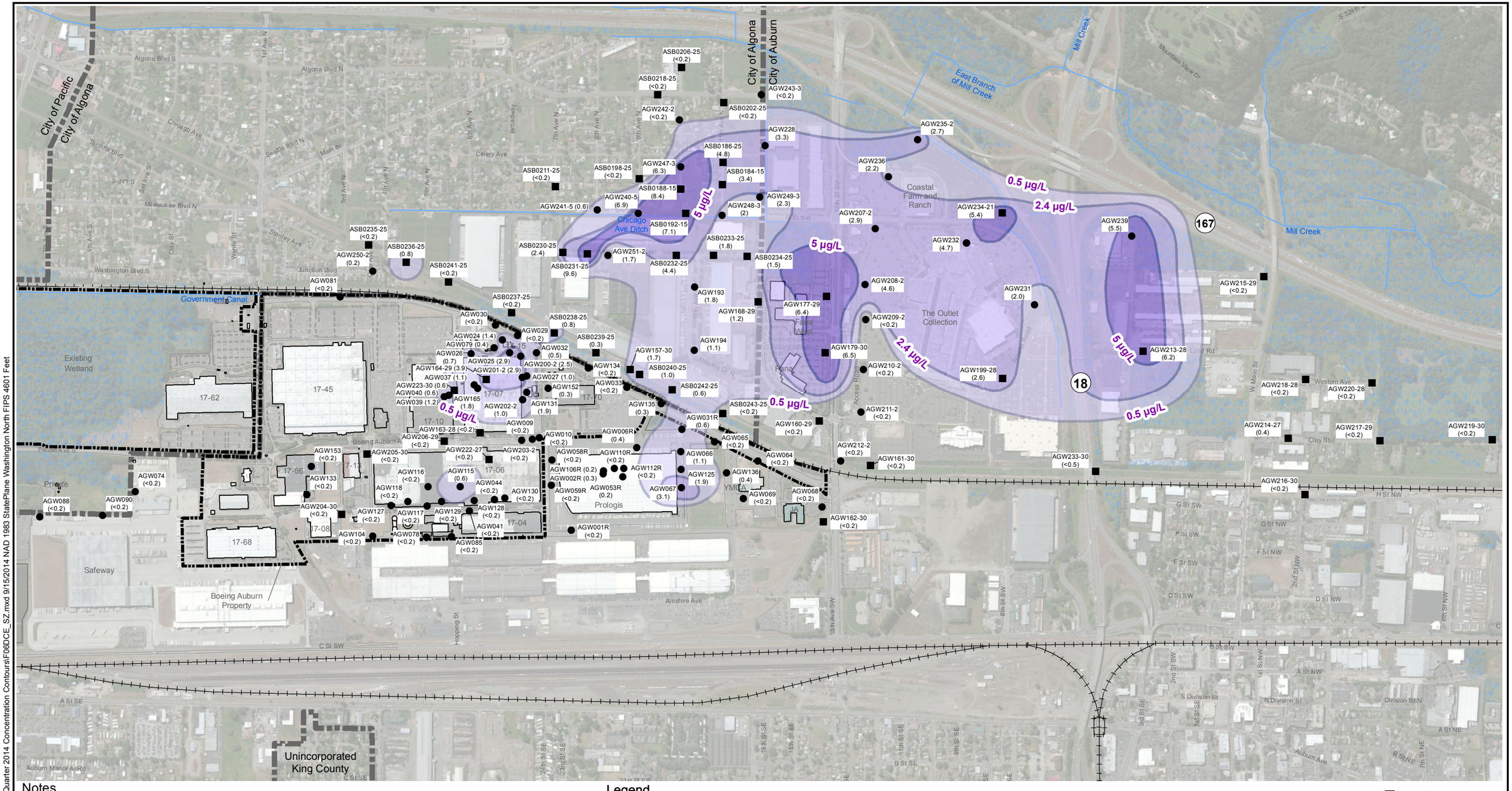
Boeing Auburn Auburn, Washington	**Shallow Zone (15-30 ft) TCE Concentrations Most Recent – June 2014**	Figure 5

G:\Projects\025\164\110\110\2nd Quarter 2014 Concentration Contours\F05TCE_SZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Notes

1. All concentrations shown in µg/L.
2. <0.2 = Compound not detected at indicated reporting limit.
3. Monitoring well results are the most recent. Direct-push boring results are from April 2013 and Summer 2014. Borehole grab samples from monitoring wells were collected at time of drilling.
4. Groundwater monitoring wells are identified by the AGW prefix. Soil borings are identified by the ASB prefix.
5. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- cis-1,2-DCE Contour = > 5.0 µg/L
- cis-1,2-DCE Contour = > 2.4 µg/L
- cis-1,2-DCE Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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 2013

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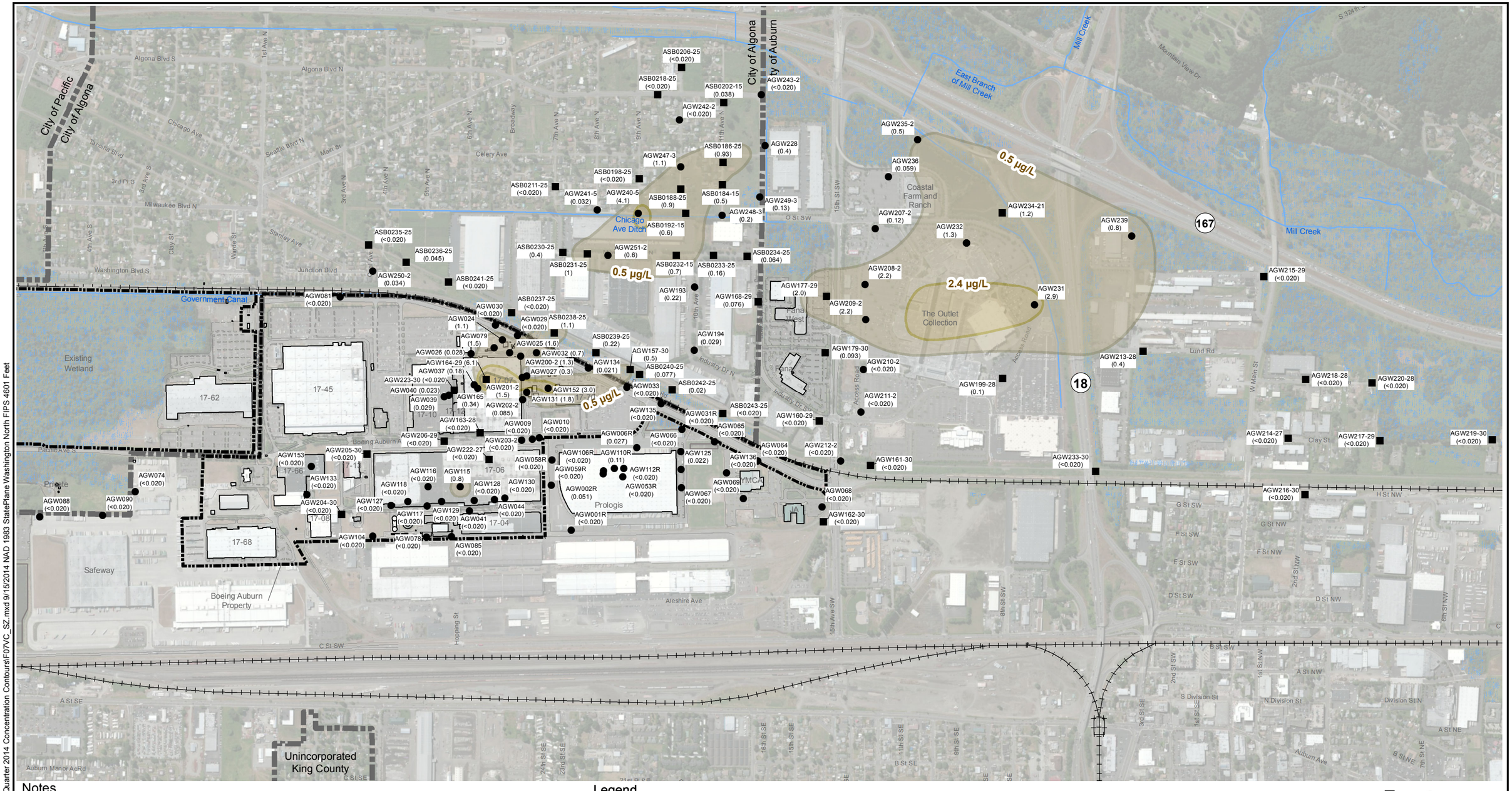
Boeing Auburn Auburn, Washington	**Shallow Zone (15-30 ft) cis-1,2-DCE Concentrations Most Recent – June 2014**	Figure 6

G:\Projects\025\164\110\110\2nd Quarter 2014 Concentration Contours\F06DCE_SZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Notes

1. All concentrations shown in µg/L.
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5. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- Vinyl Chloride Contour = > 5.0 µg/L
- Vinyl Chloride Contour = > 2.4 µg/L
- Vinyl Chloride Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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 2013

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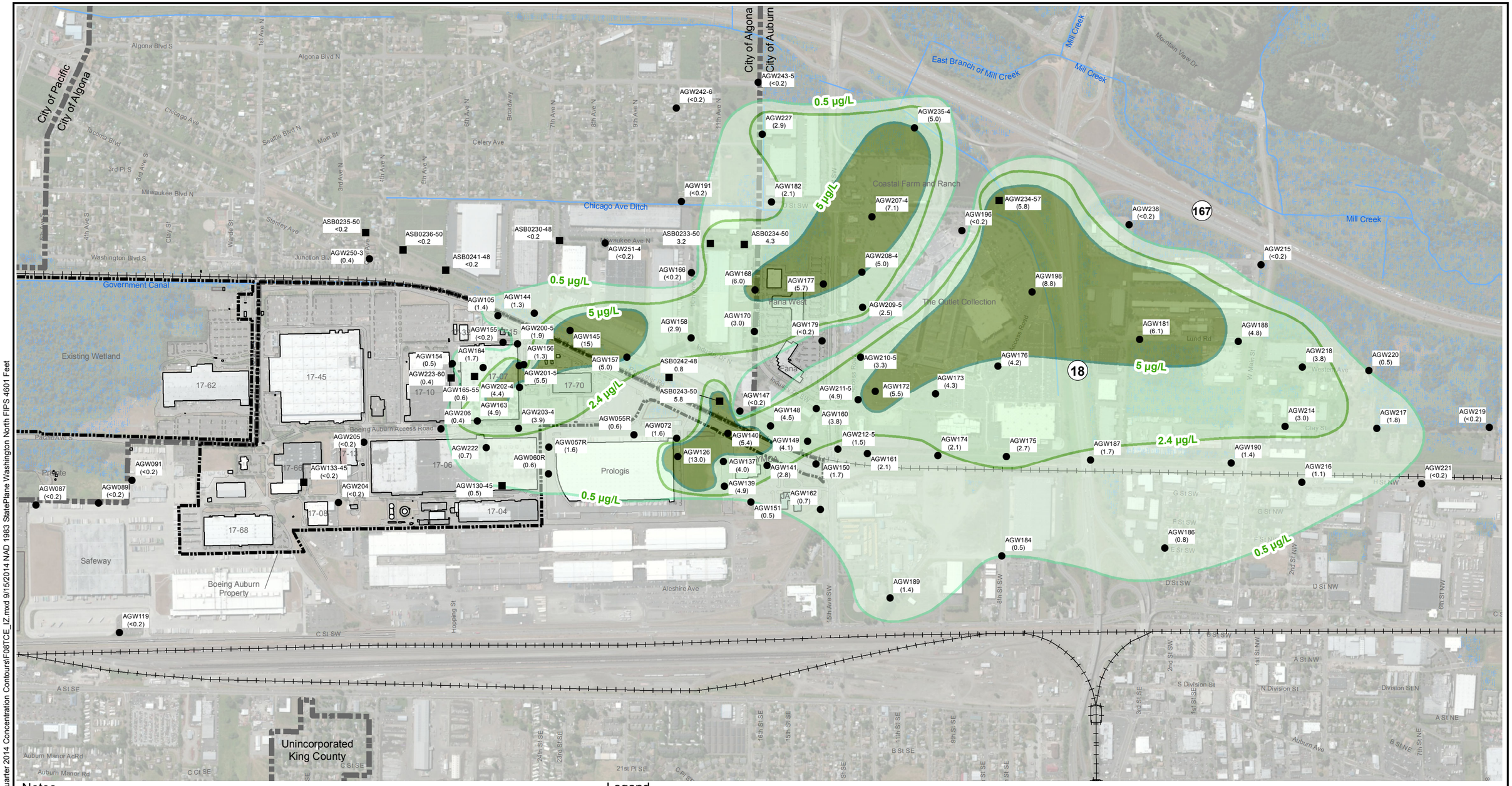
Boeing Auburn Auburn, Washington	**Shallow Zone (15-30 ft) Vinyl Chloride Concentrations Most Recent – June 2014**	Figure 7

G:\Projects\025\164\110\110\2nd Quarter 2014 Concentration Contours\F07VC_SZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet

G:\Projects\025\164110\110\2nd Quarter 2014 Concentration Contours\F08TCE_IZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Notes

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5. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- TCE Contour = > 5.0 µg/L
- TCE Contour = > 2.4 µg/L
- TCE Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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 2013

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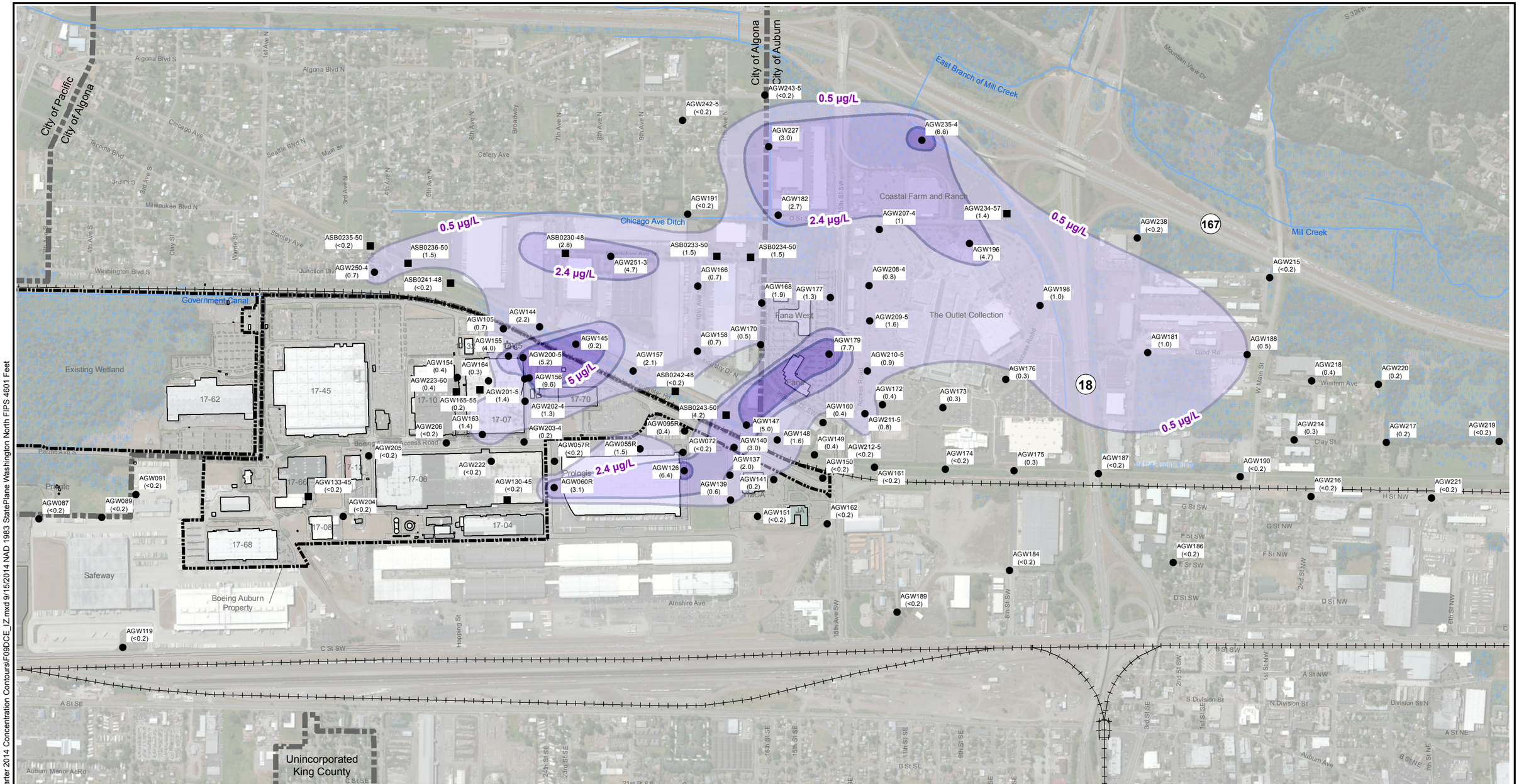
Boeing Auburn
Auburn, Washington

Intermediate Zone (40-60 ft) TCE Concentrations Most Recent – June 2014

Figure 8



Notes

1. All concentrations shown in µg/L.
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3. Monitoring well results are the most recent. Direct-push boring results are from April 2013 and Summer 2014. Borehole grab samples from monitoring wells were collected at time of drilling.
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5. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- cis-1,2-DCE Contour = > 5.0 µg/L
- cis-1,2-DCE Contour = > 2.4 µg/L
- cis-1,2-DCE Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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 2013

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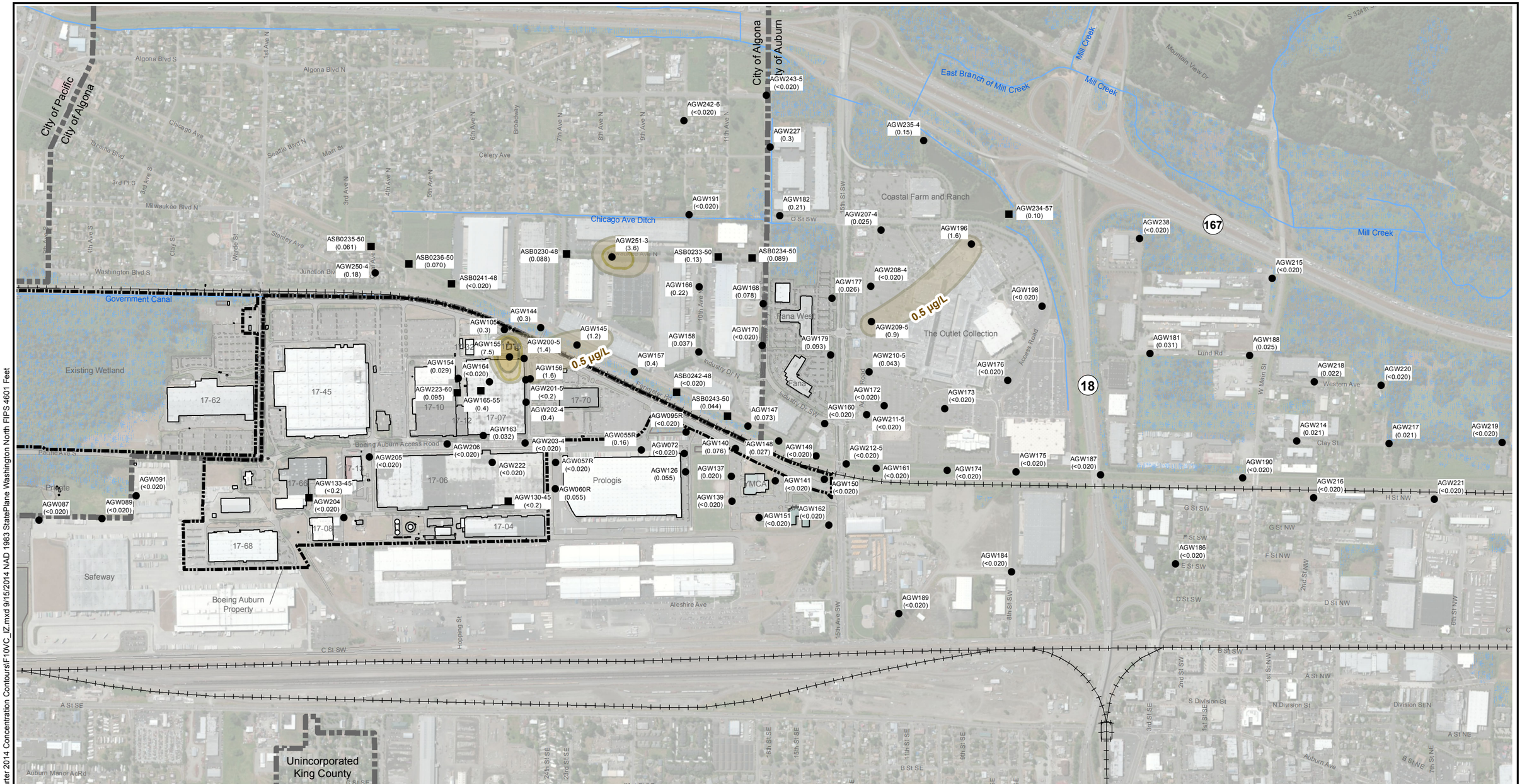
Boeing Auburn Auburn, Washington	**Intermediate Zone (40-60 ft) cis-1,2-DCE Concentrations Most Recent – June 2014**	Figure 9

G:\Projects\025\164\110\110\2nd Quarter 2014 Concentration Contours\F09DCE_IZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



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6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- Vinyl Chloride Contour = > 5.0 µg/L
- Vinyl Chloride Contour = > 2.4 µg/L
- Vinyl Chloride Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2013

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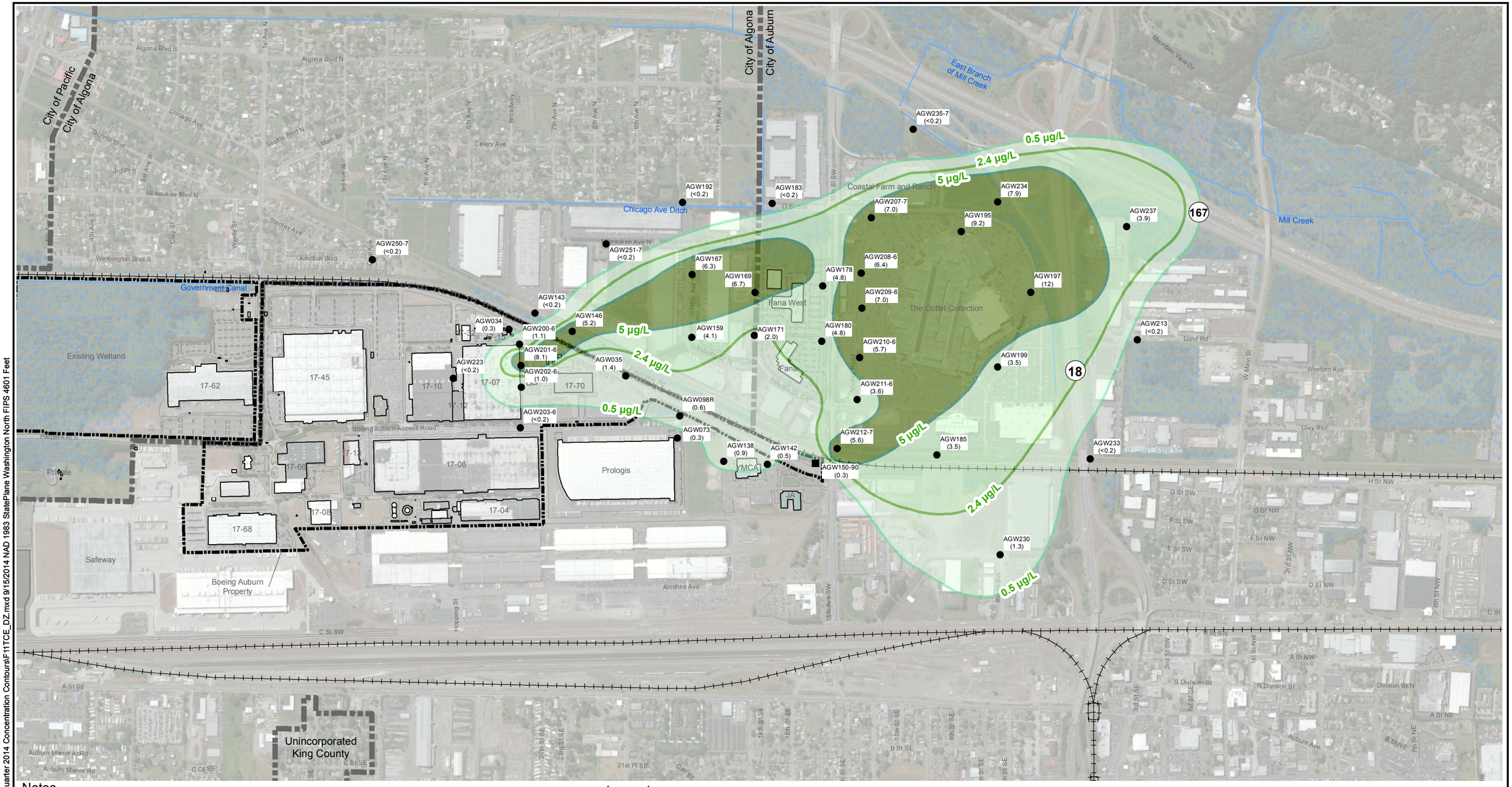
Boeing Auburn Auburn, Washington	**Intermediate Zone (40-60 ft) Vinyl Chloride Concentrations Most Recent – June 2014**	Figure 10

G:\Projects\025\164\110\2nd Quarter 2014 Concentration Contours\F10VC_IZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



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6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- TCE Contour = > 5.0 µg/L
- TCE Contour = > 2.4 µg/L
- TCE Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

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 2013

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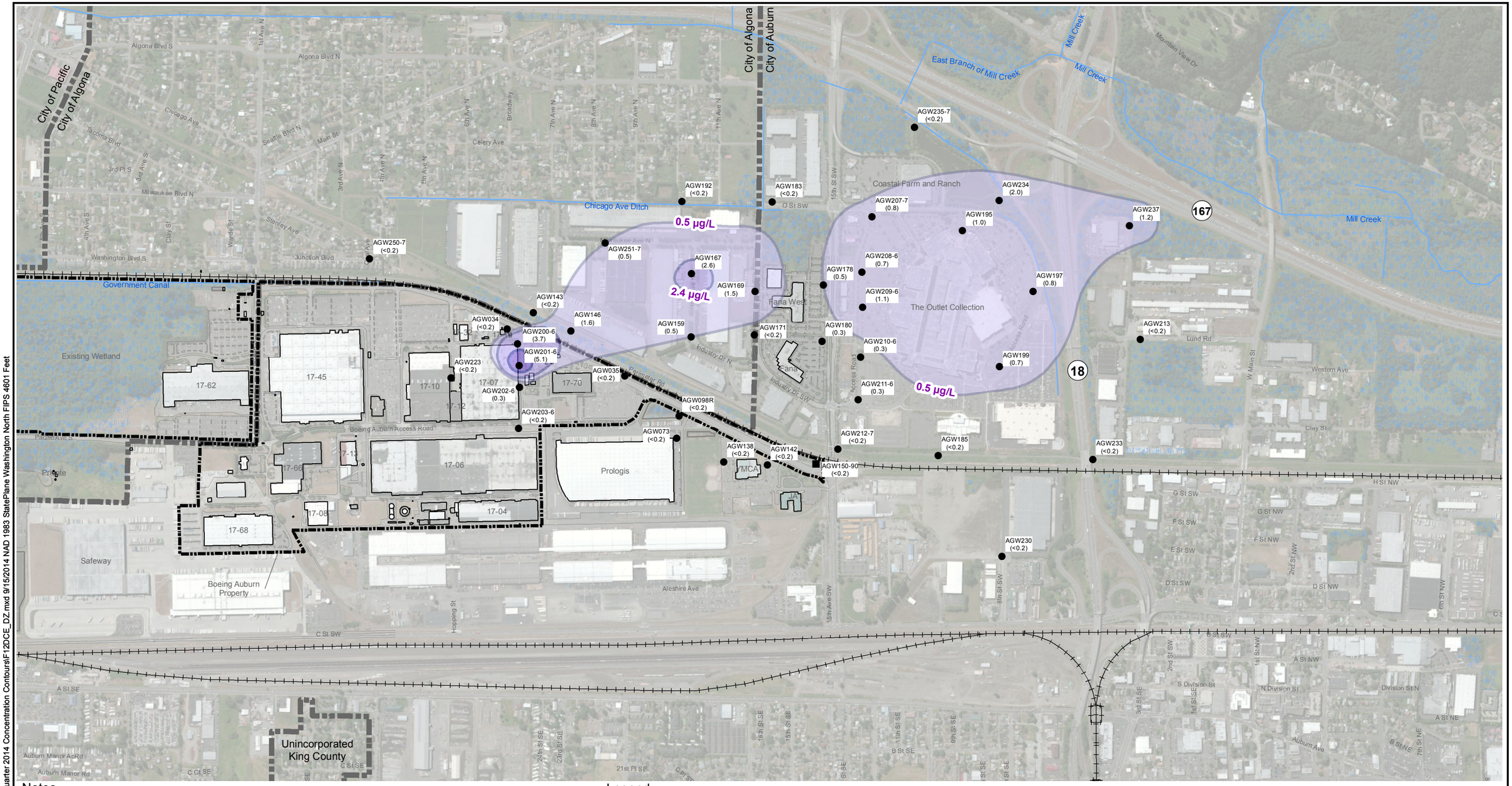
Boeing Auburn Auburn, Washington	**Deep Zone (80-100 ft) TCE Concentrations Most Recent – June 2014**	Figure 11

G:\Projects\025\164\110\110\2nd Quarter 2014 Concentration Contours\F11TCE_DZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



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4. Groundwater monitoring wells are identified by the AGW prefix. Soil borings are identified by the ASB prefix.
5. Boring sample designations include the location name (e.g., ASB0207) followed by the depth (feet, below ground surface) at which the sample was collected (e.g., 7).
6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- cis-1,2-DCE Contour = > 5.0 µg/L
- cis-1,2-DCE Contour = > 2.4 µg/L
- cis-1,2-DCE Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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 2013

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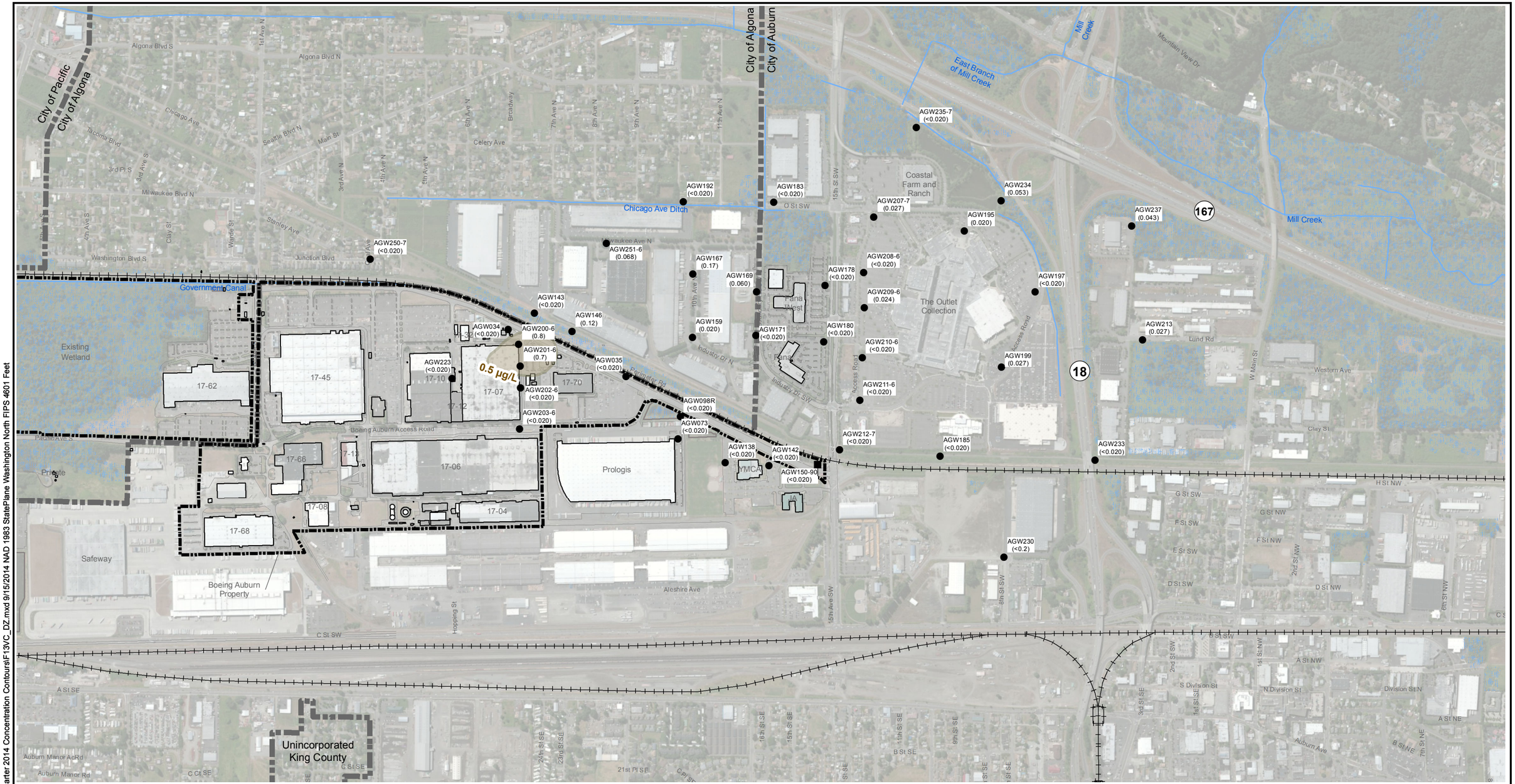
Boeing Auburn Auburn, Washington	**Deep Zone (80-100 ft) cis-1,2-DCE Concentrations Most Recent – June 2014**	Figure 12

G:\Projects\025\164\110\110\2nd Quarter 2014 Concentration Contours\F12DCE_DZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Notes

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2. <0.2 = Compound not detected at indicated reporting limit.
3. Monitoring well results are the most recent. Direct-push boring results are from April 2013 and Summer 2014. Borehole grab samples from monitoring wells were collected at time of drilling.
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6. Multilevel wells have multiple channels. Channel designations are included in the well ID (e.g., AGW208-2).
7. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Legend

- Monitoring Well Location
- Borehole Grab Sample Location
- Vinyl Chloride Contour = > 5.0 µg/L
- Vinyl Chloride Contour = > 2.4 µg/L
- Vinyl Chloride Contour = ≥ 0.5 µg/L
- Waterways
- Wetland Areas
- Boeing Property
- City Limits

N

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 2013

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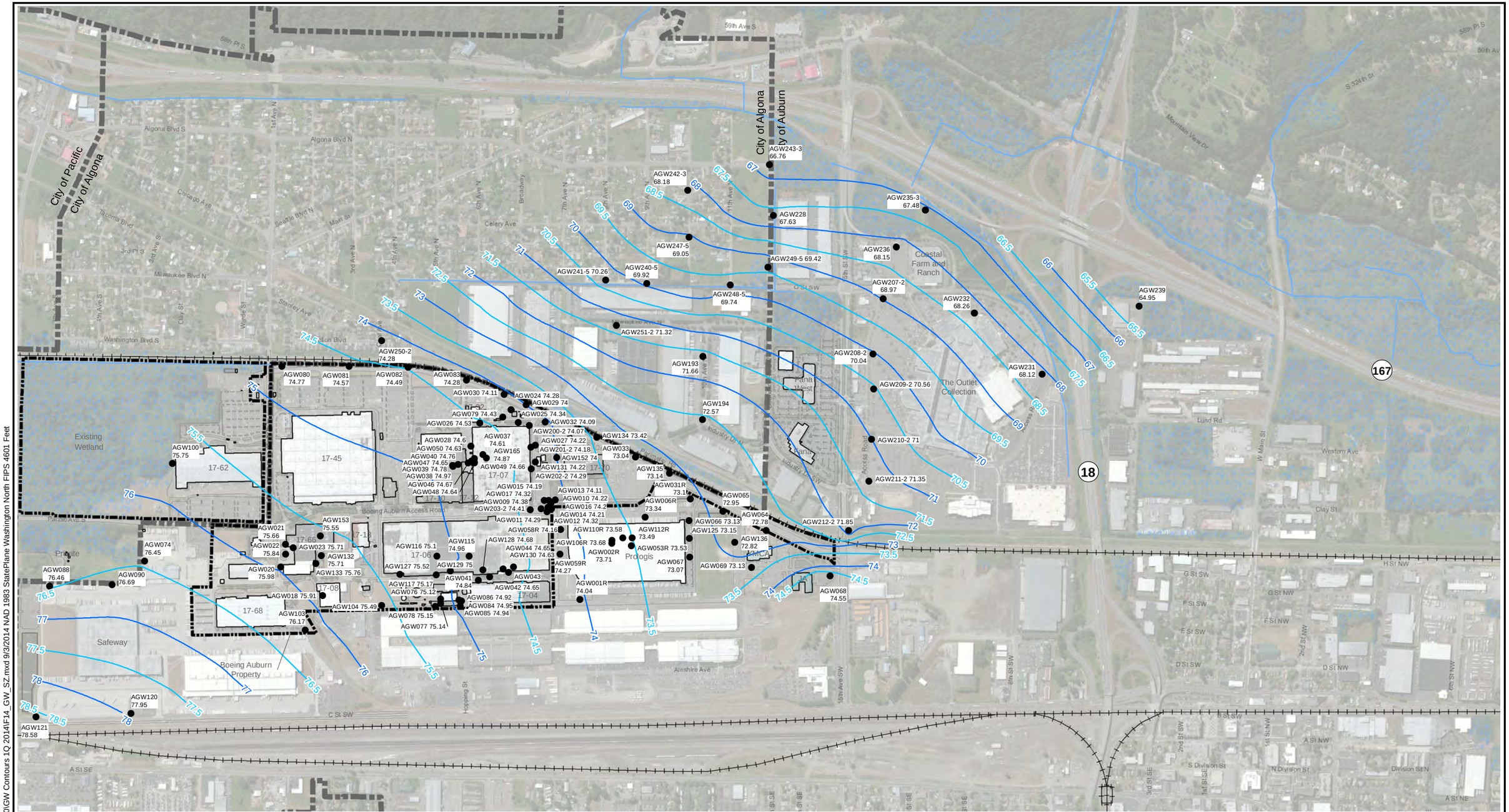
Boeing Auburn Auburn, Washington	**Deep Zone (80-100 ft) Vinyl Chloride Concentrations Most Recent – June 2014**	Figure 13

G:\Projects\025\164\110\1102nd Quarter 2014 Concentration Contours\F13VC_DZ.mxd 9/15/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet

G:\Projects\025\164\110\110\GW Contours 1Q 2014\F14_GW_SZ.mxd 9/3/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Legend

- AGW021 75.83 — Monitoring Well Designation, Groundwater Elevation (ft, MSL)
- 72 / 72.5 — Groundwater Elevation Contours
- Boeing Property
- Waterway
- Wetland Area
- City Limits

Notes

1. All water level data in ft, MSL. Data collected in July 2014.
2. Wells without a water level were inaccessible.
3. Multilevel wells have multiple channels. Channel designations are included in the well ID (ex: AGW208-2). Groundwater elevations listed are for the channel closest to 30 ft below ground surface.
4. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

N

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 2013

LANDAU ASSOCIATES

Boeing Auburn
Auburn, Washington

Shallow Zone (20-30 ft) Groundwater Elevation Contours July 2014

Figure 14

G:\Projects\025\164\110\110\GW Contours 1Q 2014\F15_GW_IZ.mxd 9/3/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

- AGW136 74.27 — Monitoring Well Designation Groundwater Elevation (ft, MSL)
- 72 / 72.5 — Groundwater Elevation Contours
- Boeing Property
- Waterway
- Wetland Area
- City Limits

Notes

1. All water level data in ft, MSL. Data collected in July 2014.
2. Multilevel wells have multiple channels. Channel designations are included in the well ID (ex: AGW208-2).
3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

N

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 2013

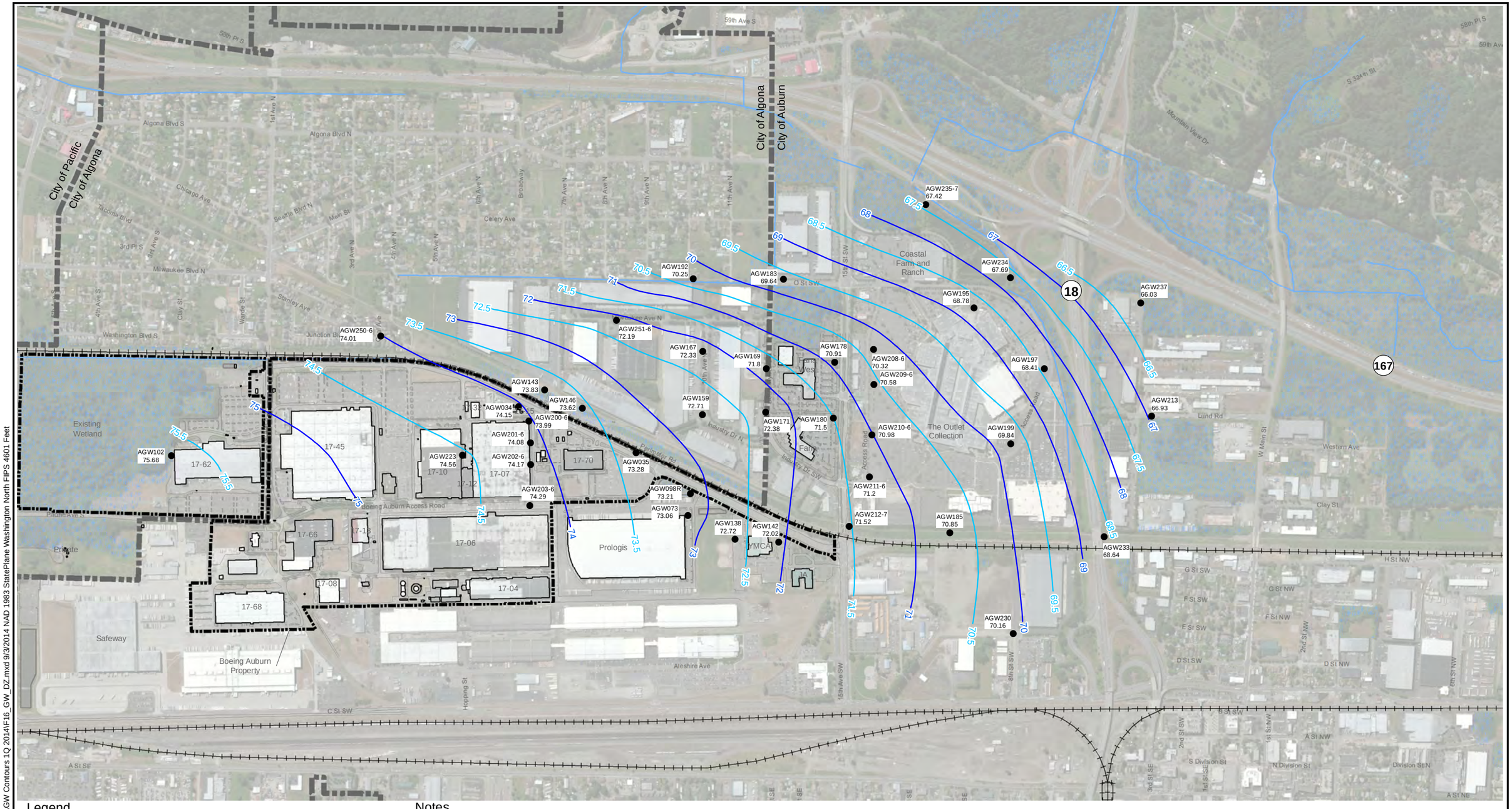
LANDAU ASSOCIATES

Boeing Auburn
Auburn, Washington

Intermediate Zone (40-60 ft) Groundwater Elevation Contours July 2014

Figure 15

G:\Projects\025\164\110\110\GW Contours 1Q 2014\F16_GW_DZ.mxd 9/3/2014 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Legend

- AGW223 74.81 — Monitoring Well Designation Groundwater Elevation (ft, MSL)
- 72 / 72.5 — Groundwater Elevation Contours
- Boeing Property
- Waterway
- Wetland Area
- City Limits

Notes

1. All water level data in ft, MSL. Data collected in July 2014.
2. Multilevel wells have multiple channels. Channel designations are included in the well ID (ex: AGW208-2).
3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

0 990 1,980

Scale in Feet

Base map source: Geometrix 2003; Aerial Photo Source: Esri World Imagery; Parcel Data Source: King County GIS 2013

LANDAU ASSOCIATES

Boeing Auburn
Auburn, Washington

Deep Zone (80-100 ft)
Groundwater Elevation Contours
July 2014

Figure
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