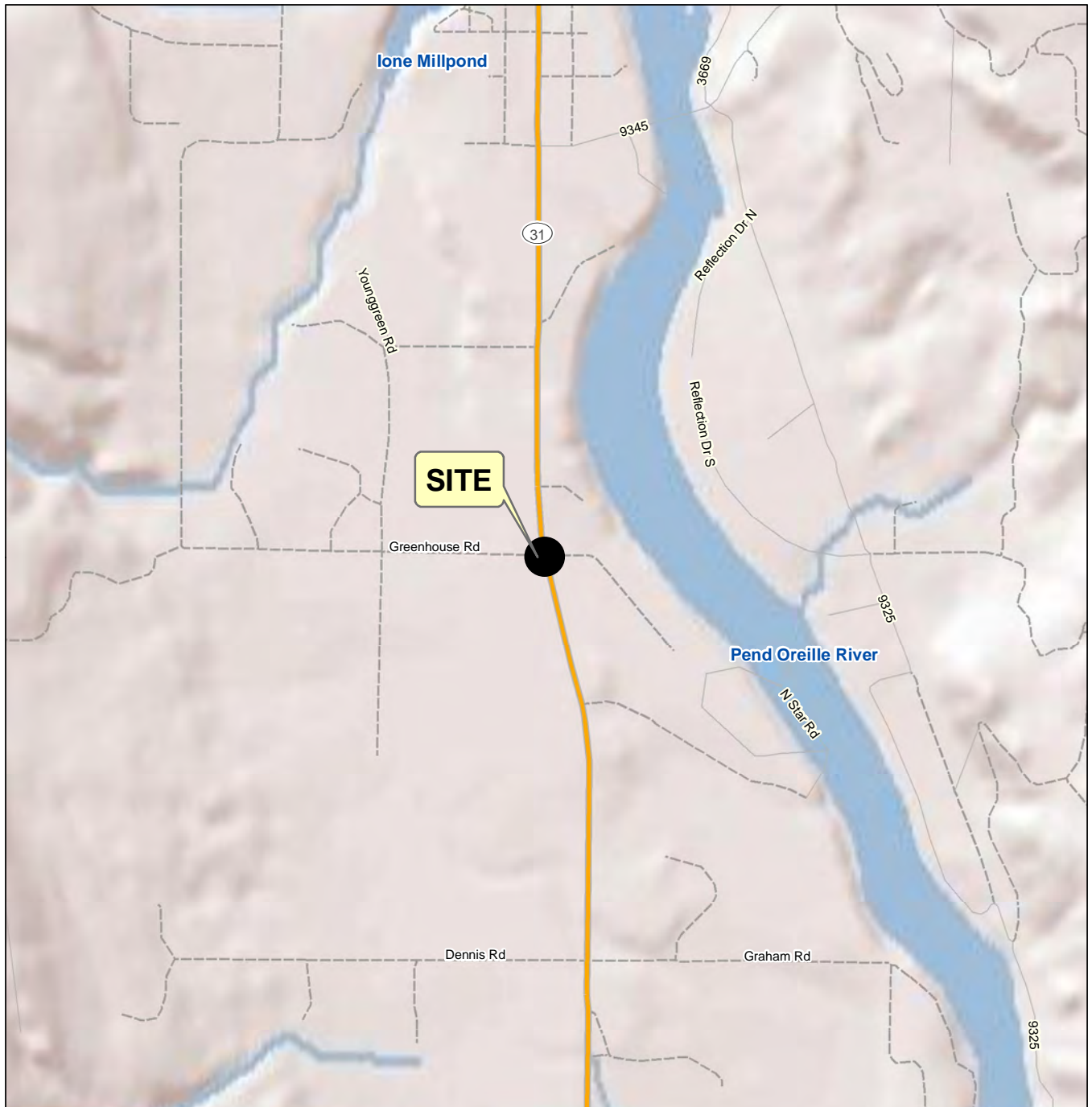


Map Revised: 4/5/2012 CRC

Path: W:\Spokane\Projects\0\0504058\GIS\050405802_VM_F1.mxd

Office: SPO



Vicinity Map

Airport Kwik Stop Site
Lone, Washington



Figure 1

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. Data Sources: ESRI Data & Maps, Street Maps 2008. Projection: NAD 1983, UTM Zone 11 North.



Legend

- Approximate Location of Existing Water Well
- Property Boundary
- Estimated Extent of Plume of Petroleum - Contaminated Groundwater

Map Revised: December 17, 2012

Path: W:\Spokane\Projects\00504058\GIS\050405802_SitePlan_PropertyBoundary.mxd
Office Location: SPO

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.
Parcel boundaries digitized from Pend Oreille County GIS,
<https://gis.pendoreilleco.org/pocgisweb/map.html>

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



Site Plan	
Airport Kwik Stop Site Lone, Washington	
	Figure 2

Map Revised: December 17, 2012

Path: W:\Spokane\Projects\00504058\GIS\050405802_RIFS_ExplorationLocations.mxd

Office Location: SPO



Legend

- DP-1 Approximate Location of Direct-Push Boring
- B-1 Approximate Location of Exploration
- MW-1 Approximate Location of Monitoring Well
- W Approximate Location of Existing Water Well

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Exploration Locations	
Airport Kwik Stop Site Lone, Washington	
	Figure 3



- Legend**
- DP-1 Approximate Location of Direct-Push Boring
 - MW-1 Approximate Location of Monitoring Well
 - B-7 Approximate Location of Exploration
 - SVE-1 Approximate Location of 4" SVE Extracation Well
 - MP-1 Approximate Location of 2" Monitoring Point
 - AS-1 Approximate Location of Air Sparge Pilot Well
 - W Existing Water Well



Greenhouse Rd

© 2010 DigitalGlobe © 2012

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.
ESRI Data & Maps, Street Maps 2008

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

**Airport Kwik Stop Detail
Exploration Locations**

Airport Kwik Stop Site
lone, Washington



Figure 4

Map Revised: December 12, 2012

Path: W:\Spokane\Projects\00504058\GIS\050405802_RIFS_AirportExplorationLocations.mxd

Official Location: SPO



Legend

DP-1



Approximate Location of Direct-Push Boring

B-4



Approximate Location of Hollow-Stem Auger Boring

MW-2



Monitoring Well Number and Approximate Location

bing

© 2010 DigitalGlobe © 2012

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

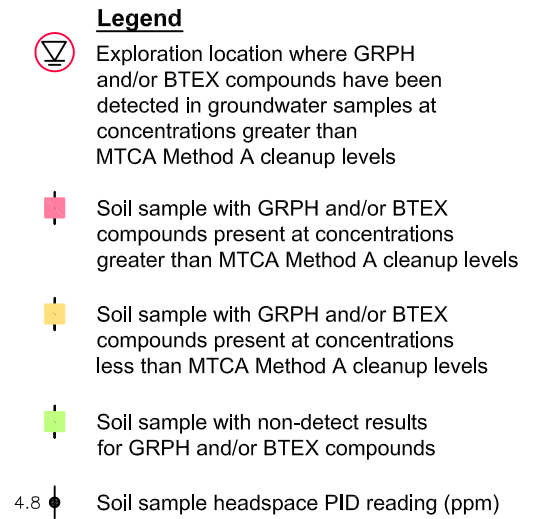


Ione Airport Detail Exploration Locations

Airport Kwik Stop Site
Ione, Washington

GEOENGINEERS

Figure 5



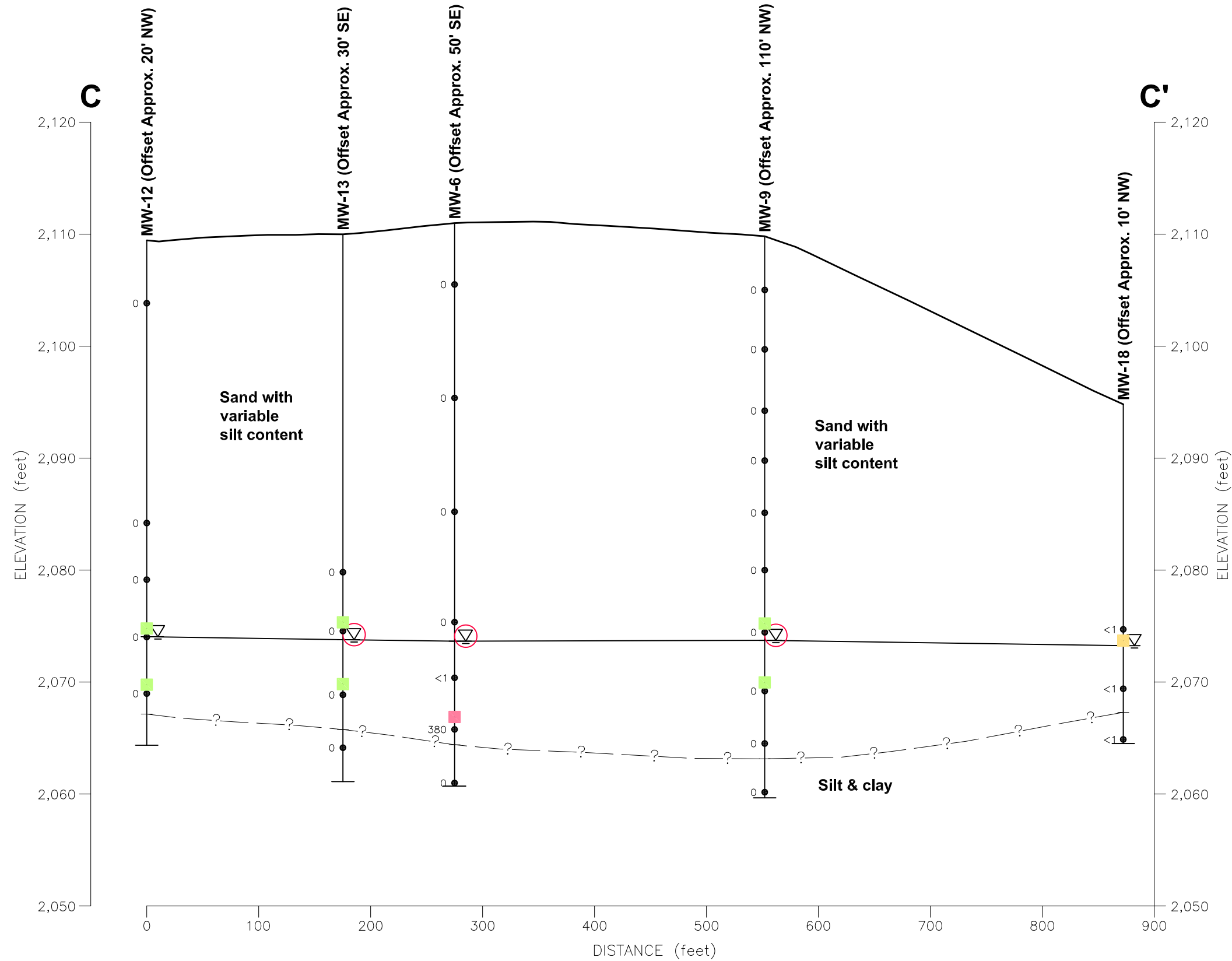
1. Groundwater elevations shown on cross section are from May 2012 monitoring event.
2. Groundwater elevation data for boring B-4 not available.



GEOENGINEERS 

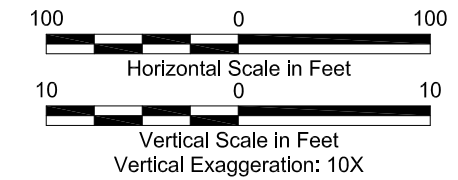
Figure 7

1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
2. Refer to Figure 3 for location of Cross Section.
3. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure.
The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document.
The master hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.



- Legend**
- Exploration location where GRPH and/or BTEX compounds have been detected in groundwater samples at concentrations greater than MTCA Method A cleanup levels
 - Soil sample with GRPH and/or BTEX compounds present at concentrations greater than MTCA Method A cleanup levels
 - Soil sample with GRPH and/or BTEX compounds present at concentrations less than MTCA Method A cleanup levels
 - Soil sample with non-detect results for GRPH and/or BTEX compounds
 - Soil sample headspace PID reading (ppm)

Notes:
1. Groundwater elevations shown on cross section are from May 2012 monitoring event.



Notes:
1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
2. Refer to Figure 3 for location of Cross Section.
3. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure.
The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document.
The master hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

Cross Section C-C'

Airport Kwik Stop Site
Ione, Washington


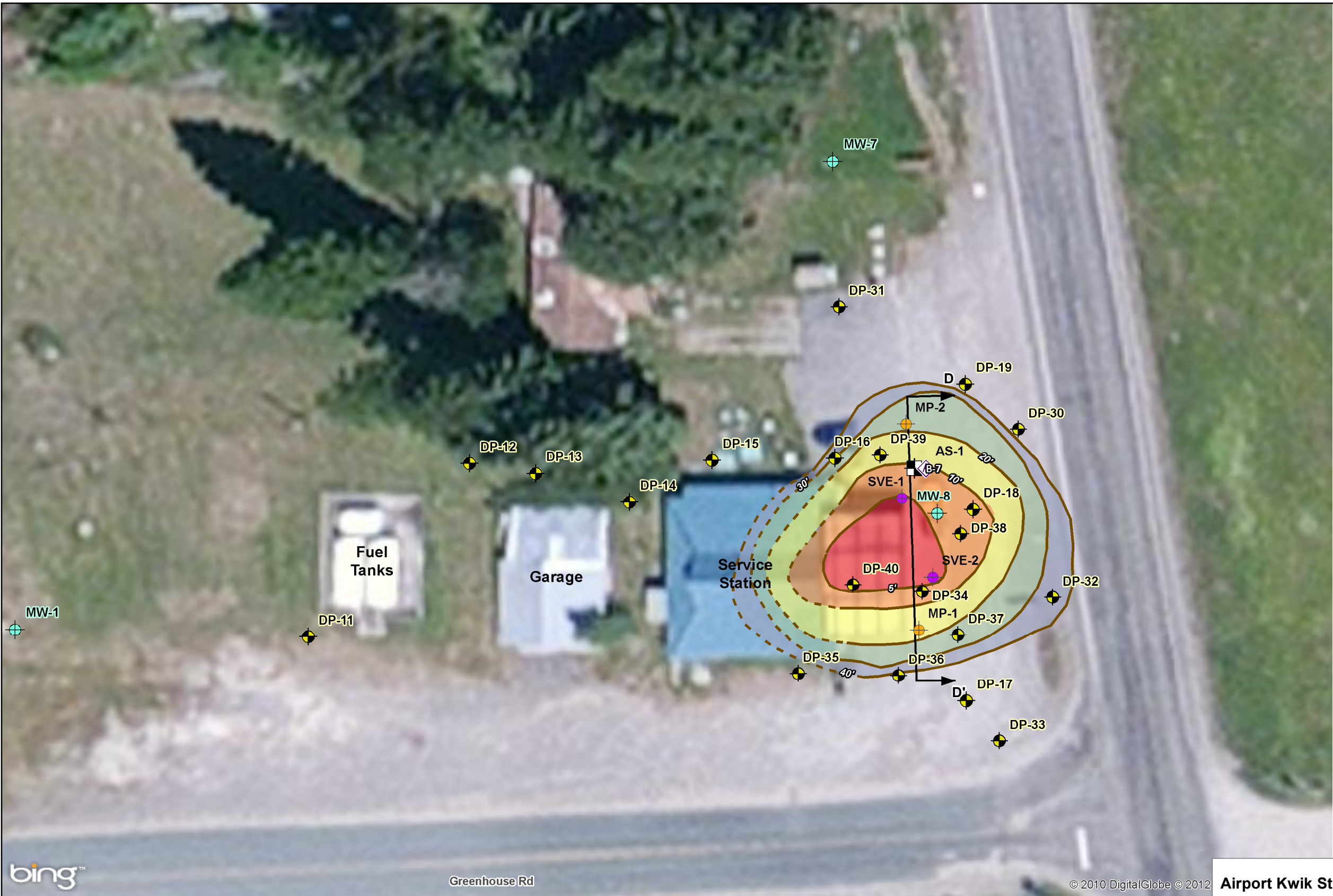
GEOENGINEERS

Figure 8

Map Revised: December 20, 2012

Path: W:\Spokane\Projects\00504058\GIS\050405802_SVE\Interim_AP_F9.mxd

Office Location: SPO

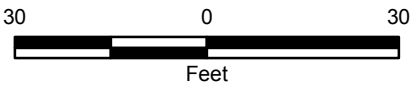


Legend

- DP-1 Approximate Location of Direct-Push Boring
- MW-1 Approximate Location of Monitoring Well
- SVE-1 Approximate Location of 4" SVE Extraction Well
- MP-1 Approximate Location of 2" Monitoring Point
- AS-1 Approximate Location of Air Sparge Pilot Well
- 20' Contamination Contours (10 ft depth bgs)
- Extrapolated Contamination Contours

Depth to Top of Contamination

- 0 - 5' bgs
- 5 - 10' bgs
- 10' - 20' bgs
- 20' - 30' bgs
- 30' - 40' bgs



Greenhouse Rd

© 2010 DigitalGlobe © 2012

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.
ESRI Data & Maps, Street Maps 2008

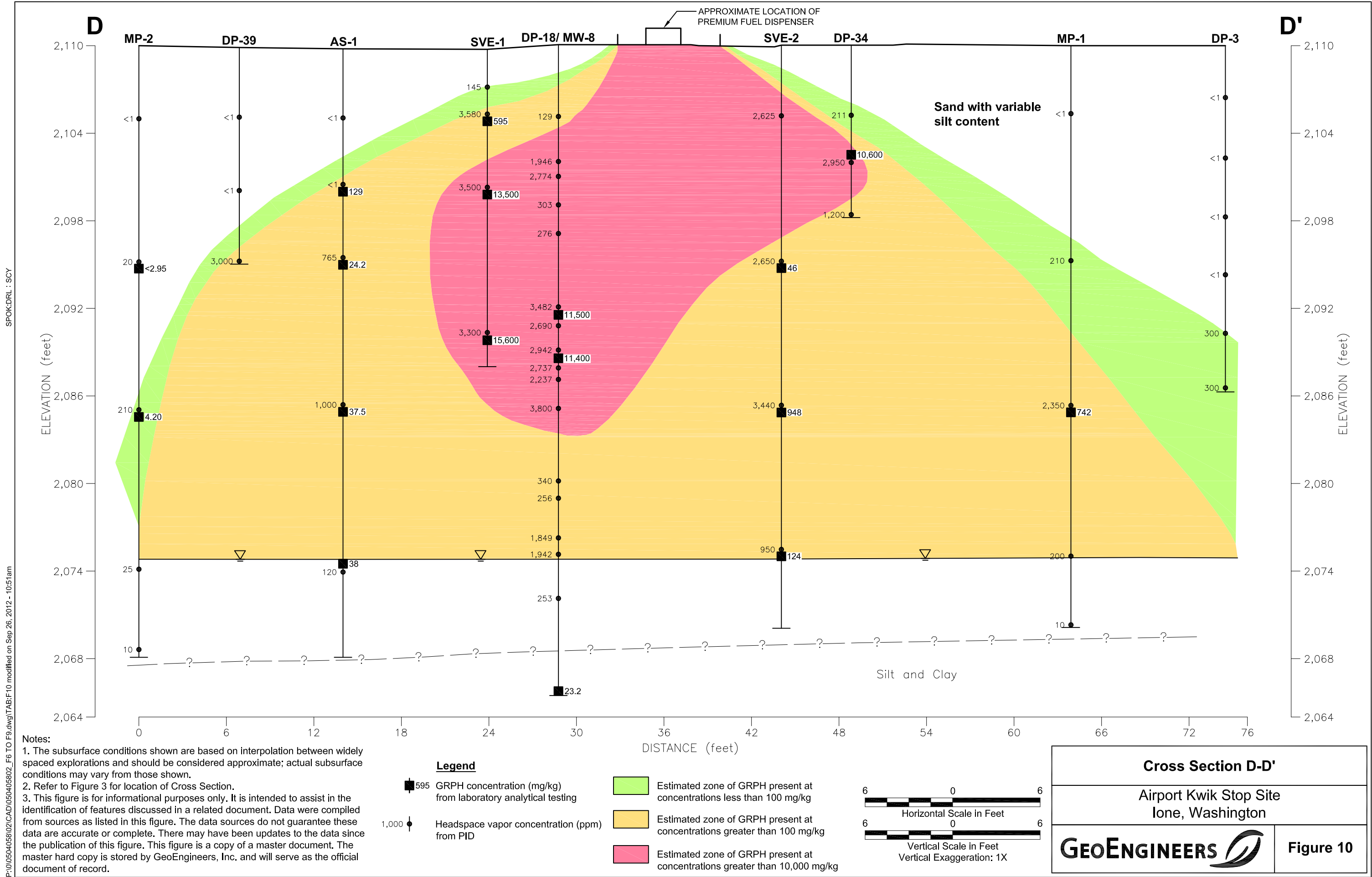
Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Airport Kwik Stop Vadoso Zone Contamination

Airport Kwik Stop Site
Ione, Washington



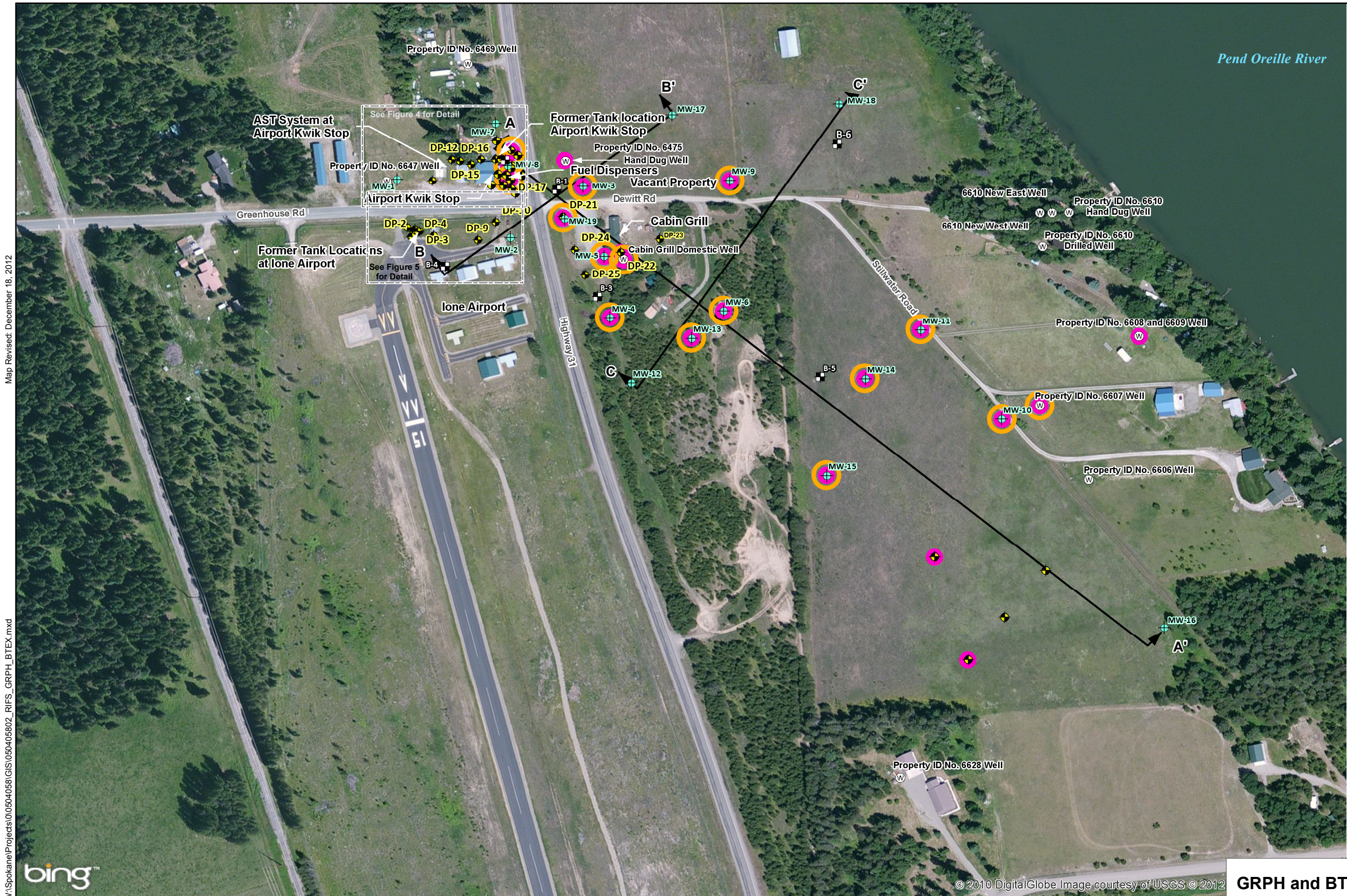
Figure 9



Map Revised: December 18, 2012

Path: W:\Spokane\Projects\00504058\GIS\050405802_RIFS_GRPB_BTEX.mxd

Office Location: SPO



- Legend**
- DP-1 Approximate Location of Direct-Push Boring
 - B-1 Approximate Location of Exploration
 - MW-1 Approximate Location of Monitoring Well
 - W Approximate Location of Existing Water Well
 - BTEX Detected in at Least One Groundwater or Water Sample at Concentration Greater Than MTCA Method A Cleanup Level
 - GRPH Detected in at Least One Groundwater or Water Sample at Concentration Greater Than MTCA Method A Clean Up Level

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

GRPH and BTEX in Groundwater Samples

Airport Kwik Stop Site
Lone, Washington



Figure 11

Map Revised: December 17, 2012

Path: W:\Spokane\Projects\00504058\GIS\050405802_GW\Contour_F2_May2012_Corrected.mxd

Office Location: SPO

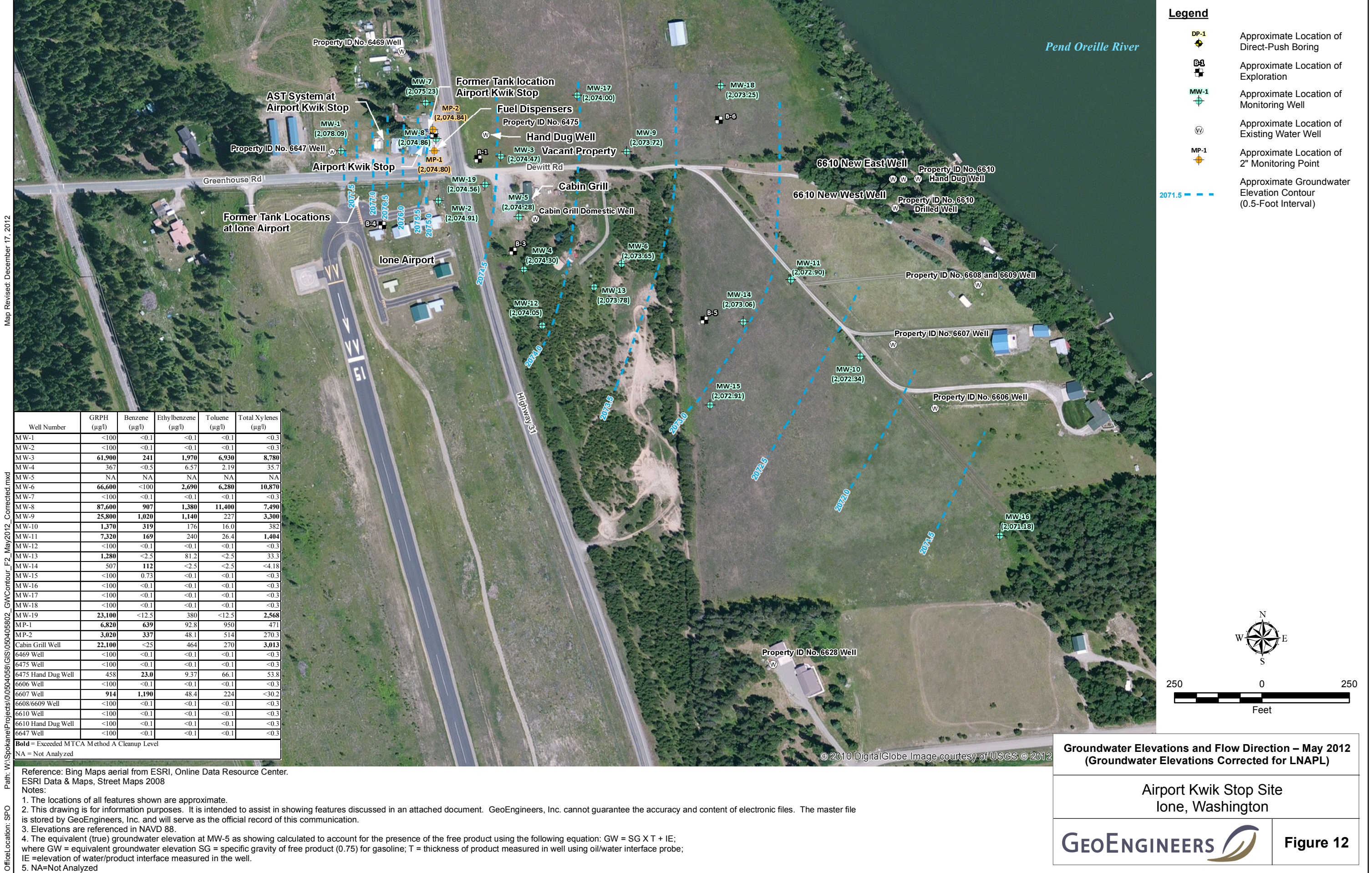
Well Number	GRPH (µg/l)	Benzene (µg/l)	Ethylbenzene (µg/l)	Toluene (µg/l)	Total Xylenes (µg/l)
MW-1	<100	<0.1	<0.1	<0.1	<0.3
MW-2	<100	<0.1	<0.1	<0.1	<0.3
MW-3	61,900	241	1,970	6,930	8,780
MW-4	367	<0.5	6.57	2.19	35.7
MW-5	NA	NA	NA	NA	NA
MW-6	66,600	<100	2,690	6,280	10,870
MW-7	<100	<0.1	<0.1	<0.1	<0.3
MW-8	87,600	907	1,380	11,400	7,490
MW-9	25,800	1,020	1,140	227	3,300
MW-10	1,370	319	176	16.0	382
MW-11	7,320	169	240	26.4	1,404
MW-12	<100	<0.1	<0.1	<0.1	<0.3
MW-13	1,280	<2.5	81.2	<2.5	33.3
MW-14	507	112	<2.5	<2.5	<4.18
MW-15	<100	0.73	<0.1	<0.1	<0.3
MW-16	<100	<0.1	<0.1	<0.1	<0.3
MW-17	<100	<0.1	<0.1	<0.1	<0.3
MW-18	<100	<0.1	<0.1	<0.1	<0.3
MW-19	23,100	<12.5	380	<12.5	2,568
MP-1	6,820	639	92.8	950	471
MP-2	3,020	337	48.1	514	270.3
Cabin Grill Well	22,100	<25	464	270	3,013
6469 Well	<100	<0.1	<0.1	<0.1	<0.3
6475 Well	<100	<0.1	<0.1	<0.1	<0.3
6475 Hand Dug Well	458	23.0	9.37	66.1	53.8
6606 Well	<100	<0.1	<0.1	<0.1	<0.3
6607 Well	914	1,190	48.4	224	<30.2
6608/6609 Well	<100	<0.1	<0.1	<0.1	<0.3
6610 Well	<100	<0.1	<0.1	<0.1	<0.3
6610 Hand Dug Well	<100	<0.1	<0.1	<0.1	<0.3
6647 Well	<100	<0.1	<0.1	<0.1	<0.3

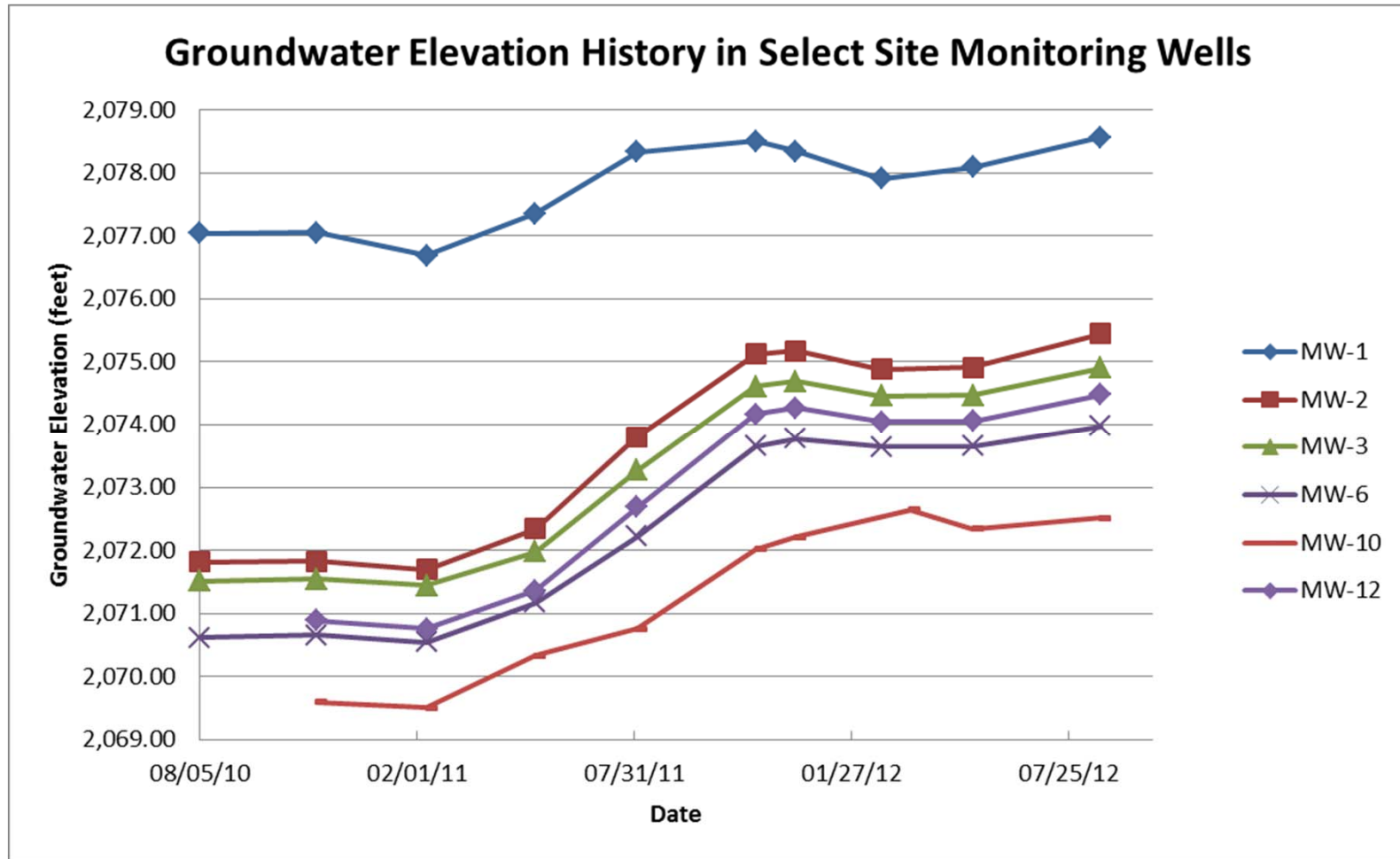
Bold = Exceeded MTCA Method A Cleanup Level
NA = Not Analyzed

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.
ESRI Data & Maps, Street Maps 2008

Notes:

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
- Elevations are referenced in NAVD 88.
- The equivalent (true) groundwater elevation at MW-5 as showing calculated to account for the presence of the free product using the following equation: $GW = SG \times T + IE$; where GW = equivalent groundwater elevation SG = specific gravity of free product (0.75) for gasoline; T = thickness of product measured in well using oil/water interface probe; IE = elevation of water/product interface measured in the well.
- NA=Not Analyzed



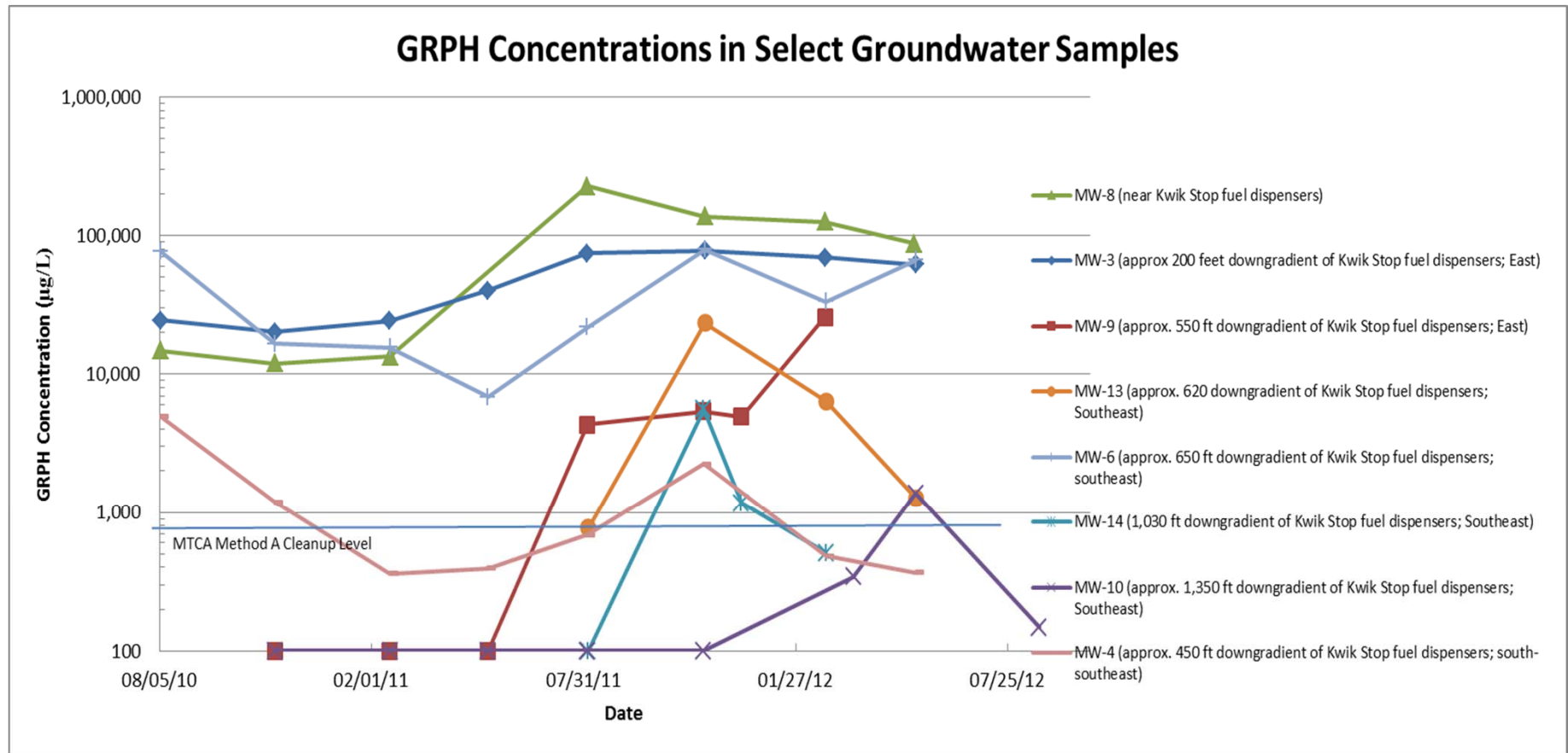


Groundwater Elevation History in Select Site Monitoring Wells

Airport Kwik Stop Site
Lone, Washington



Figure 14



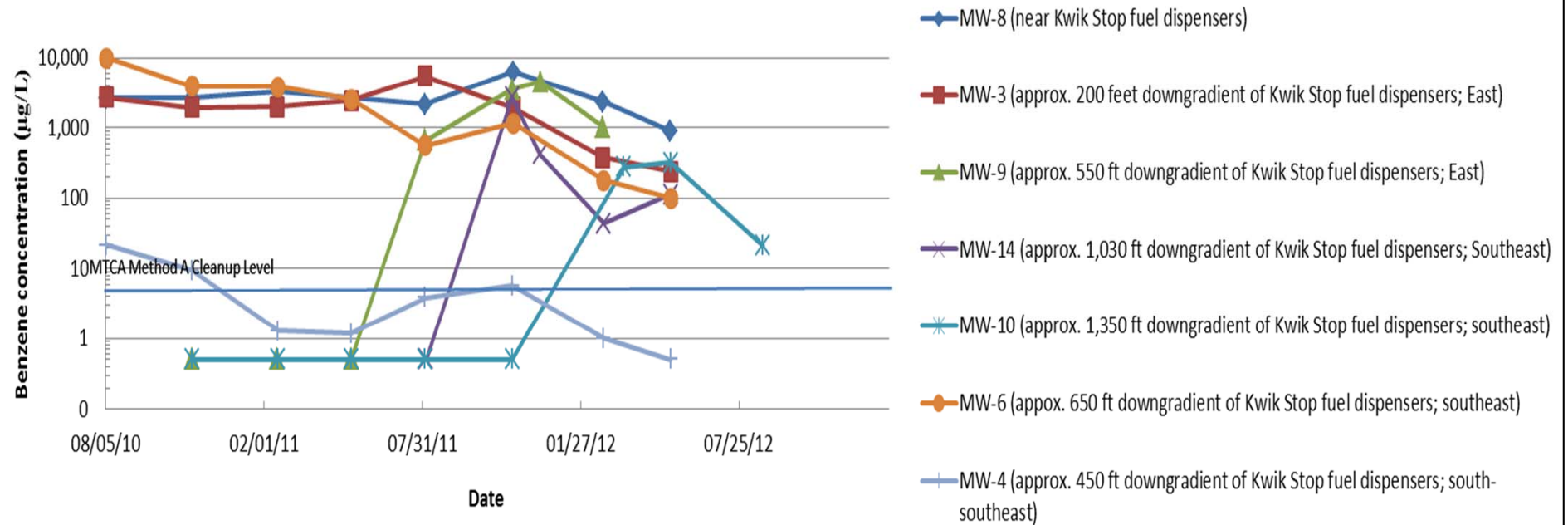
GRPH Concentrations in Select Groundwater Samples

Airport Kwik Stop Site
Ione, Washington

GEOENGINEERS

Figure 15

Benzene Concentrations in Select Groundwater Samples



Benzene Concentrations in Select Groundwater Samples

Airport Kwik Stop Site
Ione, Washington

GEOENGINEERS

Figure 16

Well Number	GRPH (µg/l)	Benzene (µg/l)	Ethylbenzene (µg/l)	Toluene (µg/l)	Total Xylenes (µg/l)
MW-1	<100	<0.1	<0.1	<0.1	<0.3
MW-2	<100	<0.1	<0.1	<0.1	<0.3
MW-3	61,900	241	1,970	6,930	8,780
MW-4	367	<0.5	6.57	2.19	35.7
MW-5	NA	NA	NA	NA	NA
MW-6	66,600	<100	2,690	6,280	10,870
MW-7	<100	<0.1	<0.1	<0.1	<0.3
MW-8	87,600	907	1,380	11,400	7,490
MW-9	25,800	1,020	1,140	227	3,300
MW-10	1,370	319	176	16.0	382
MW-11	7,320	169	240	26.4	1,404
MW-12	<100	<0.1	<0.1	<0.1	<0.3
MW-13	1,280	<2.5	81.2	<2.5	33.3
MW-14	507	112	<2.5	<2.5	<4.18
MW-15	<100	0.73	<0.1	<0.1	<0.3
MW-16	<100	<0.1	<0.1	<0.1	<0.3
MW-17	<100	<0.1	<0.1	<0.1	<0.3
MW-18	<100	<0.1	<0.1	<0.1	<0.3
MW-19	23,100	<12.5	380	<12.5	2,568
MP-1	6,820	639	92.8	950	471
MP-2	3,020	337	48.1	514	270.3
Cabin Grill Well	22,100	<25	464	270	3,013
6469 Well	<100	<0.1	<0.1	<0.1	<0.3
6475 Well	<100	<0.1	<0.1	<0.1	<0.3
6475 Hand Dug Well	458	23.0	9.37	66.1	53.8
6606 Well	<100	<0.1	<0.1	<0.1	<0.3
6607 Well	914	1,190	48.4	224	<30.2
6608/6609 Well	<100	<0.1	<0.1	<0.1	<0.3
6610 Well	<100	<0.1	<0.1	<0.1	<0.3
6610 Hand Dug Well	<100	<0.1	<0.1	<0.1	<0.3
6647 Well	<100	<0.1	<0.1	<0.1	<0.3

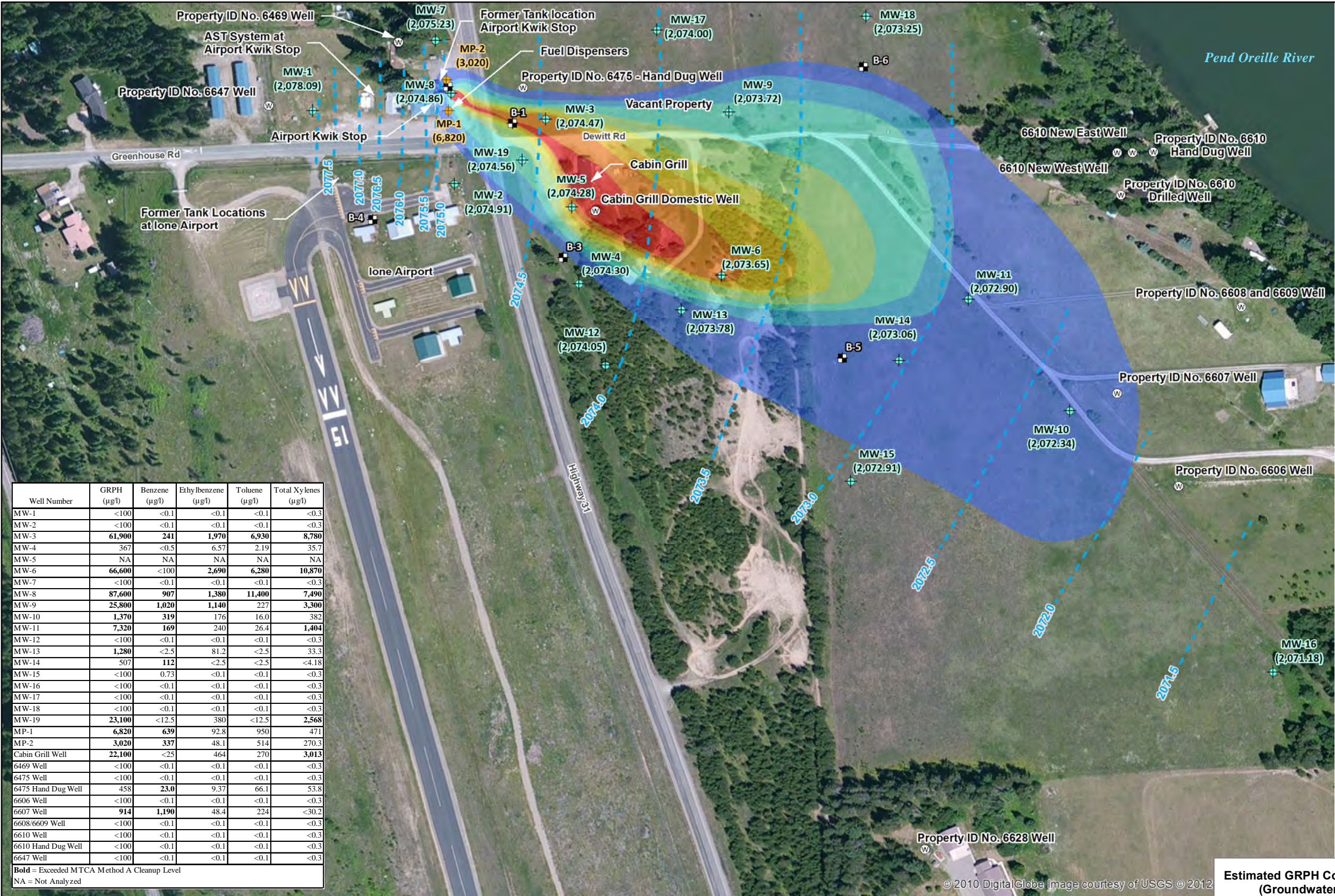
Bold = Exceeded MTCA Method A Cleanup Level
NA = Not Analyzed

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.

ESRI Data & Maps, Street Maps 2008

Notes:

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
- Elevations are referenced in NAVD 88.
- The equivalent (true) groundwater elevation at MW-5 as showing calculated to account for the presence of the free product using the following equation: $GW = SG \times T + IE$; where GW = equivalent groundwater elevation SG = specific gravity of free product (0.75) for gasoline; T = thickness of product measured in well using oil/water interface probe; IE = elevation of water/product interface measured in the well.
- NA=Not Analyzed

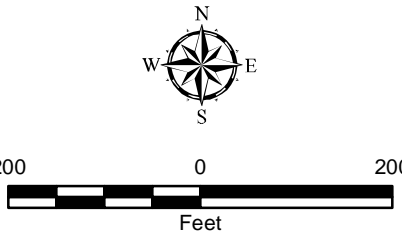


Legend

- DP-1 Approximate Location of Direct-Push Boring
- B-1 Approximate Location of Exploration
- MW-1 Approximate Location of Monitoring Well
- W Approximate Location of Existing Water Well
- MP-1 Approximate Location of 2" Monitoring Point
- 2071.5 - - - - - Approximate Groundwater Elevation Contour (0.5-Foot Interval)

Estimated GRPH Concentration in Groundwater (µg/L)

- 800 - 10,000
- 10,000 - 20,000
- 20,000 - 30,000
- 30,000 - 40,000
- 40,000 - 50,000
- 50,000 - 60,000
- 60,000 - 70,000
- < 70,000



Estimated GRPH Concentration in Groundwater – May 2012
(Groundwater Elevations Corrected for LNAPL)

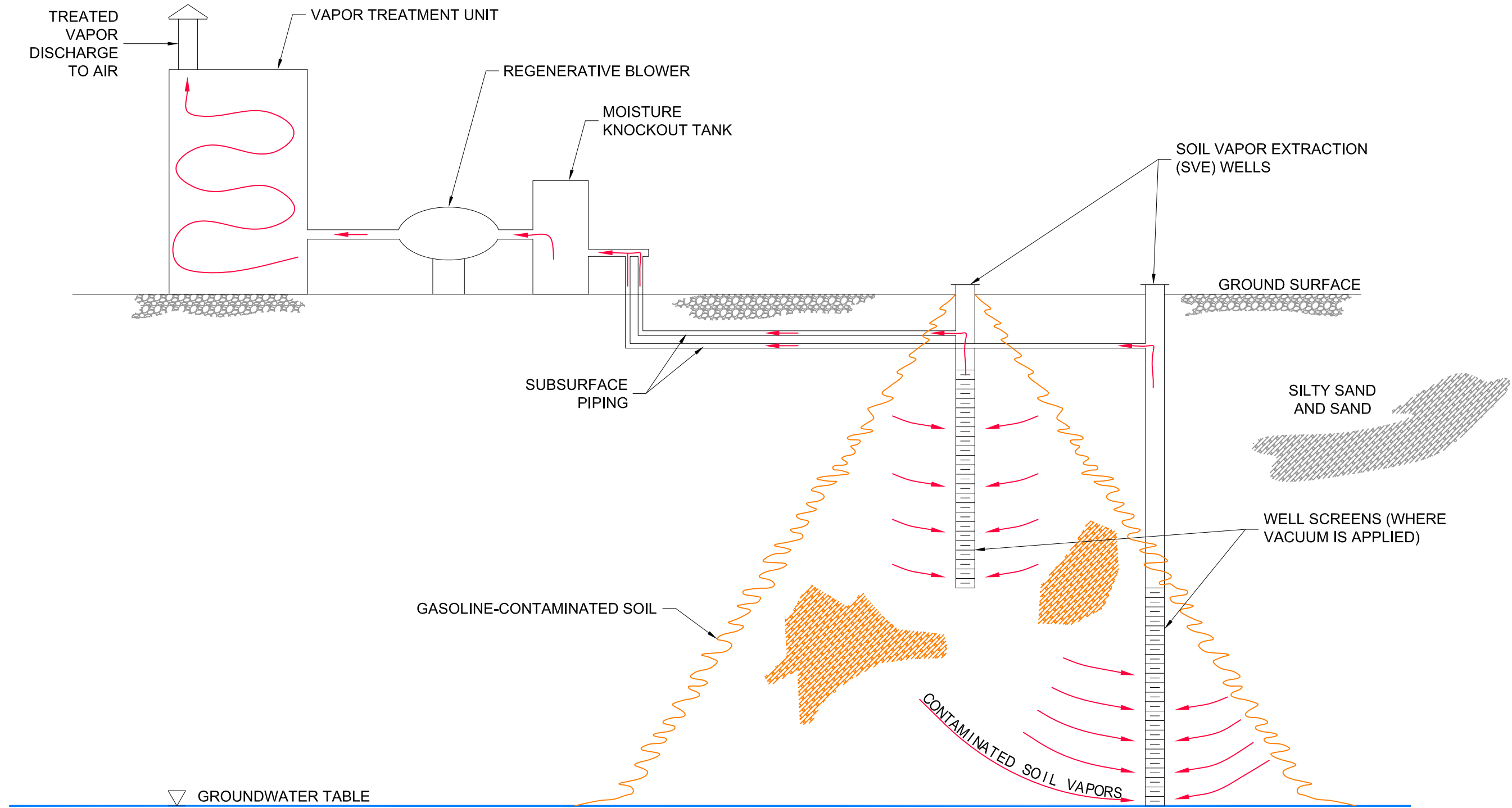
Airport Kwik Stop Site
Lone, Washington



Figure 17

BDW : MGF

P:\0504058\02\CAD\0504058-02 SOIL VAPOR EXTRACTION.dwg\TAB:Layout1 modified on Sep 26, 2012 - 11:04am



NOT TO SCALE

Notes

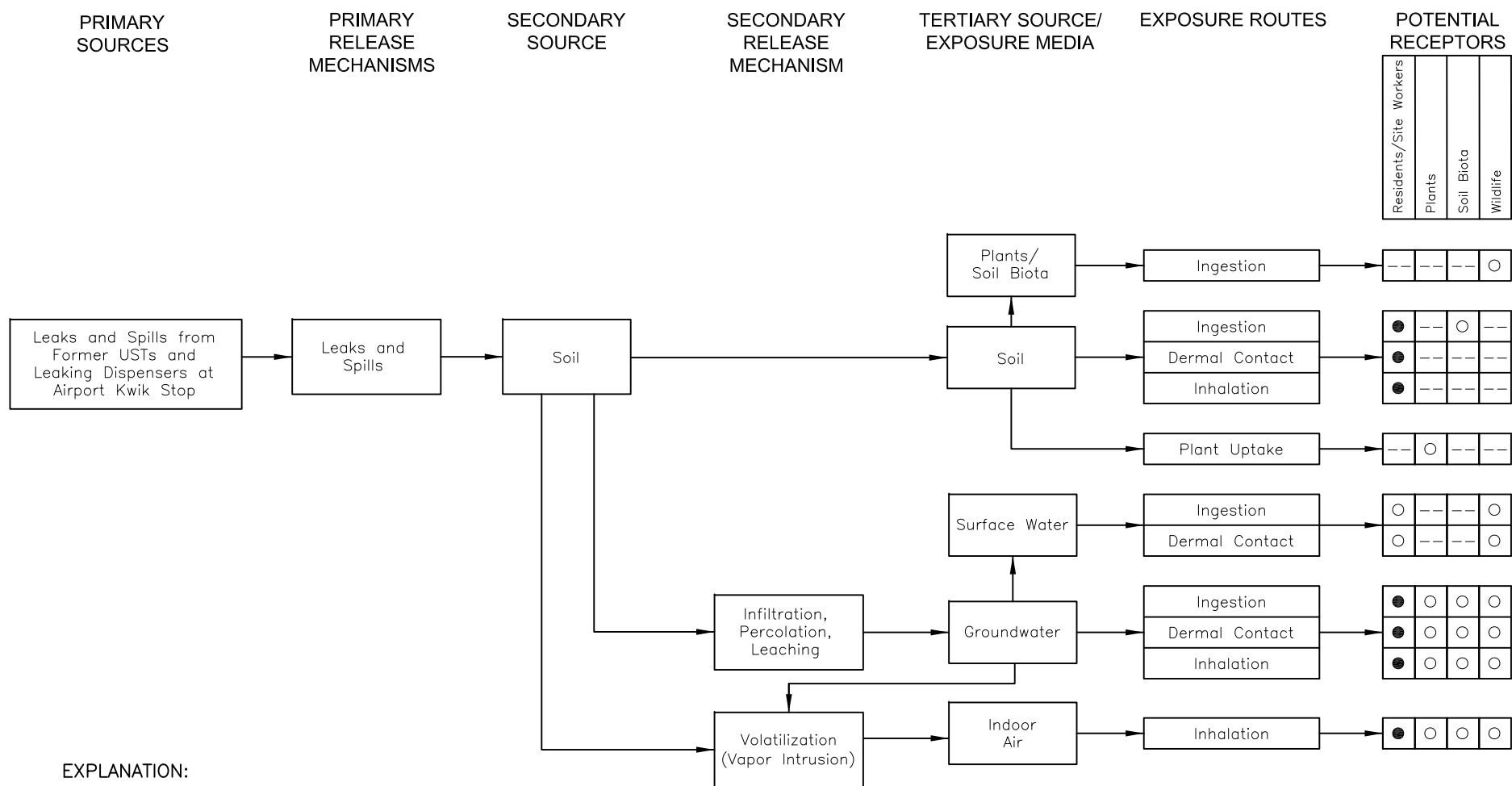
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. Reference: GeoEngineers employee sketch.

Typical Soil Vapor Extraction System

Airport Kwik Stop Site
Ione, Washington

GEOENGINEERS

Figure 18



Notes:

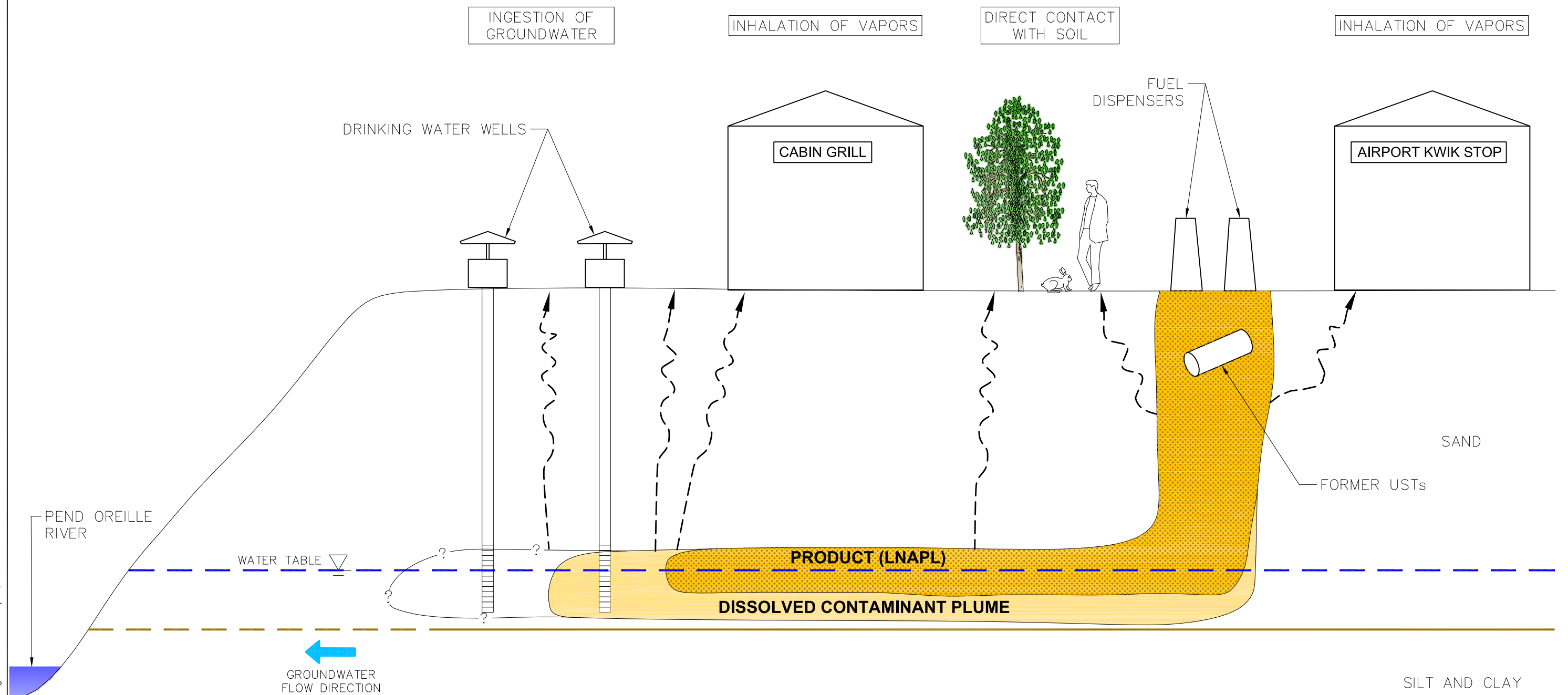
1. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Conceptual Site Model - Flowchart

Airport Kwik Stop Site
Ione, Washington



Figure 19



NOT TO SCALE

Notes

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. Reference: Drawing created from previous GeoEngineers figure.

LEGEND

	VOLATILIZATION OF VAPORS
	UNDEFINED EXTENT OF CONTAMINANT
	SOIL CONTACT (DASHED WHERE INFERRED)

Conceptual Site Model - Graphical

Airport Kwik Stop Site
Ione, Washington

GEOENGINEERS

Figure 20