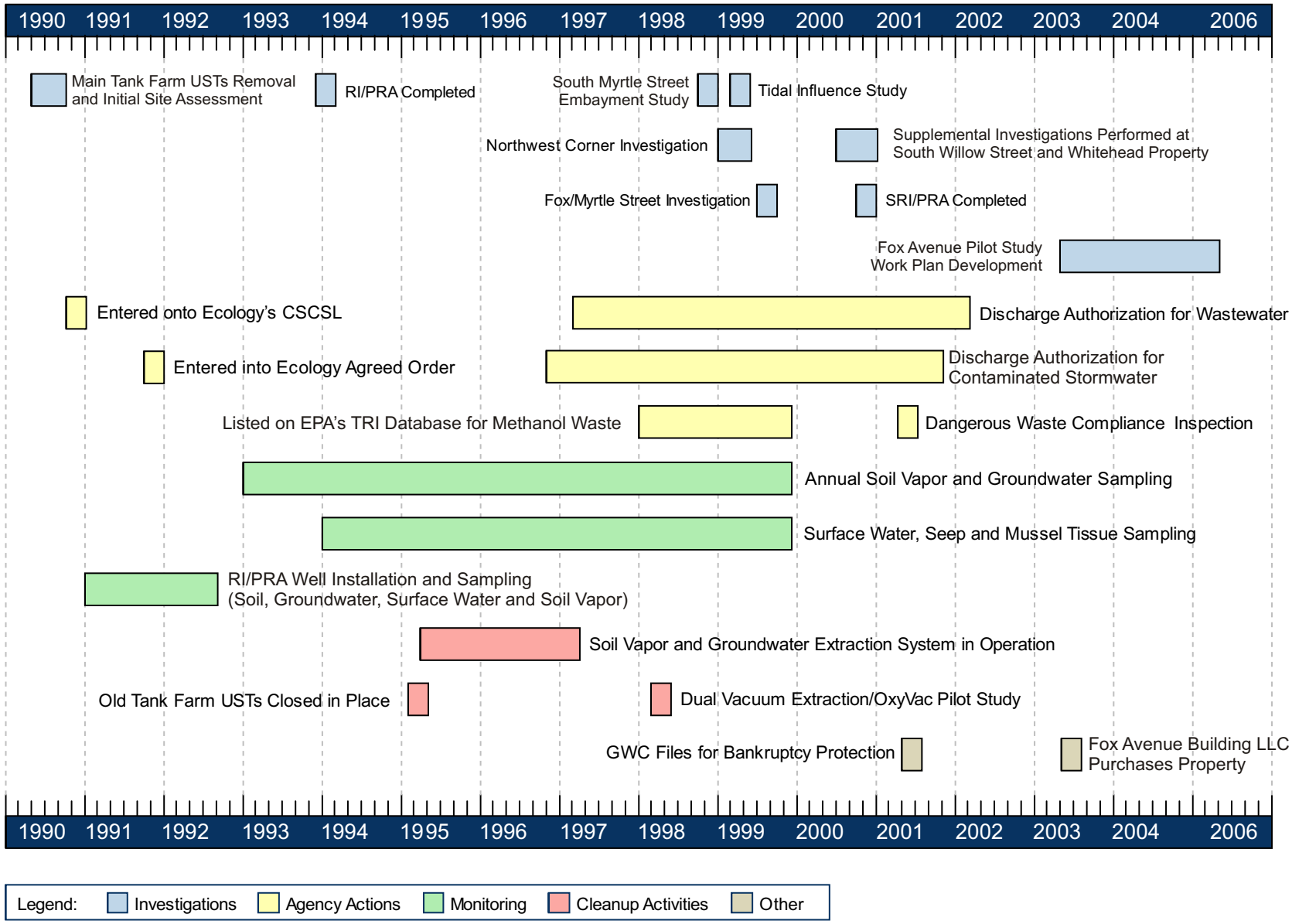

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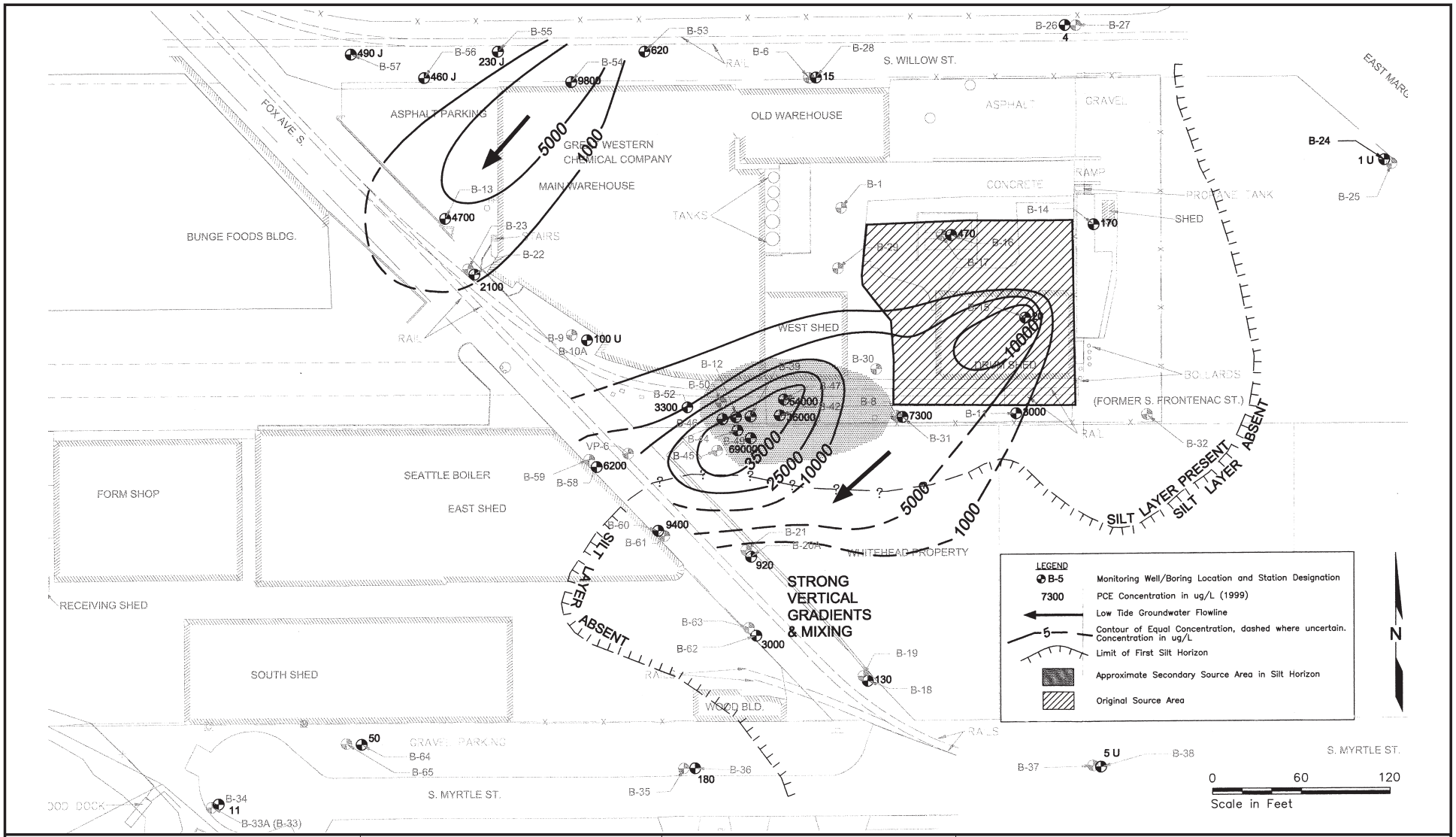
Figure 30
TIMELINE - CASCADE COLUMBIA DISTRIBUTION PROPERTY

Date:	Drawn by:	
5/21/08	AES	10:002330WD1403\fig30



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Base Map Reference: Floyd & Snider Inc. 2000.

LOWER DUWAMISH WATERWAY
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Figure 31
PCE IN 1st WBZ (1999 SAMPLING EVENT) - CASCADE COLUMBIA DISTRIBUTION
(IN OPERATION AS GREAT WESTERN CHEMICAL)

Date:	Drawn by:	
5/21/08	AES	10:002330WD1403\fig31

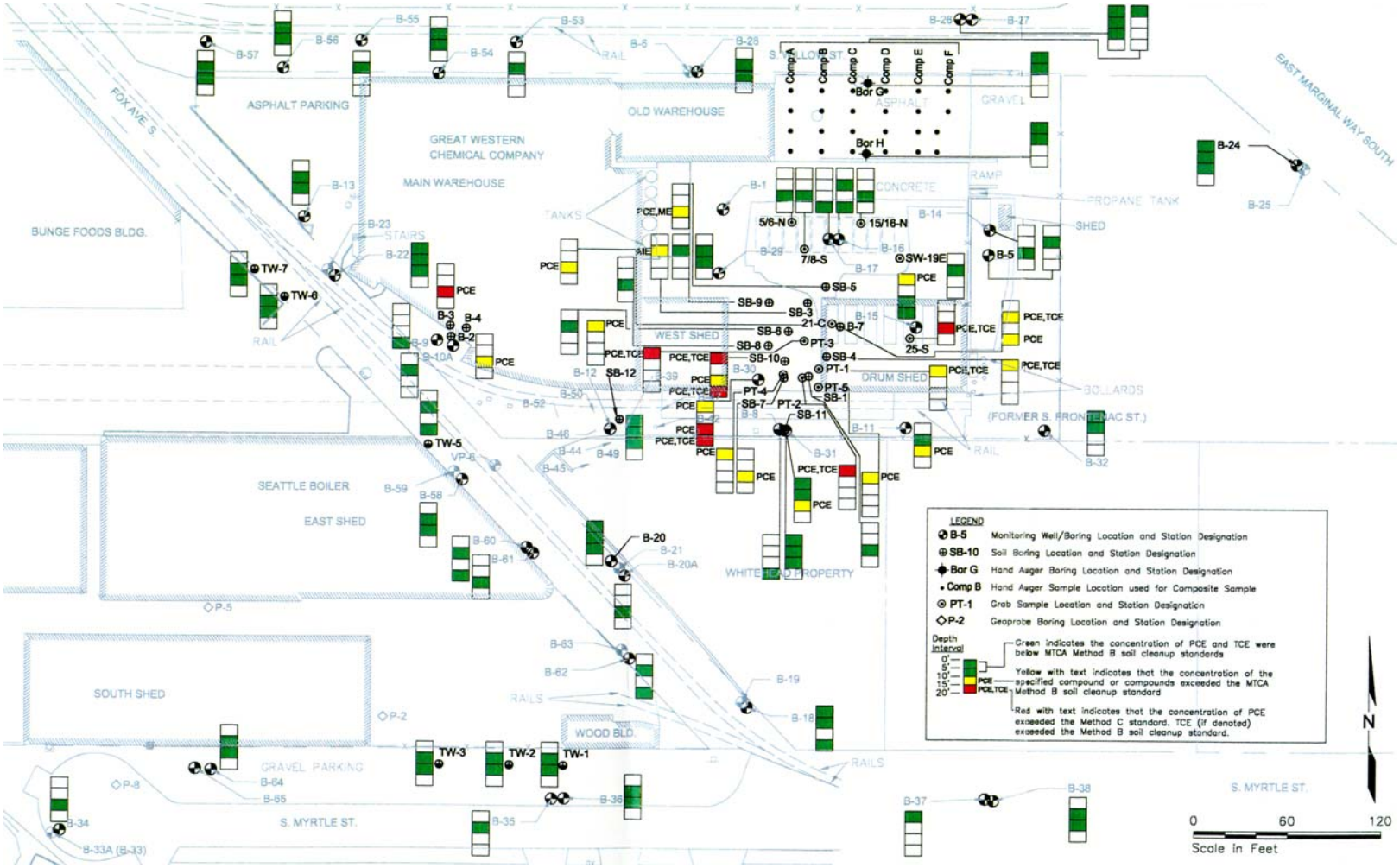

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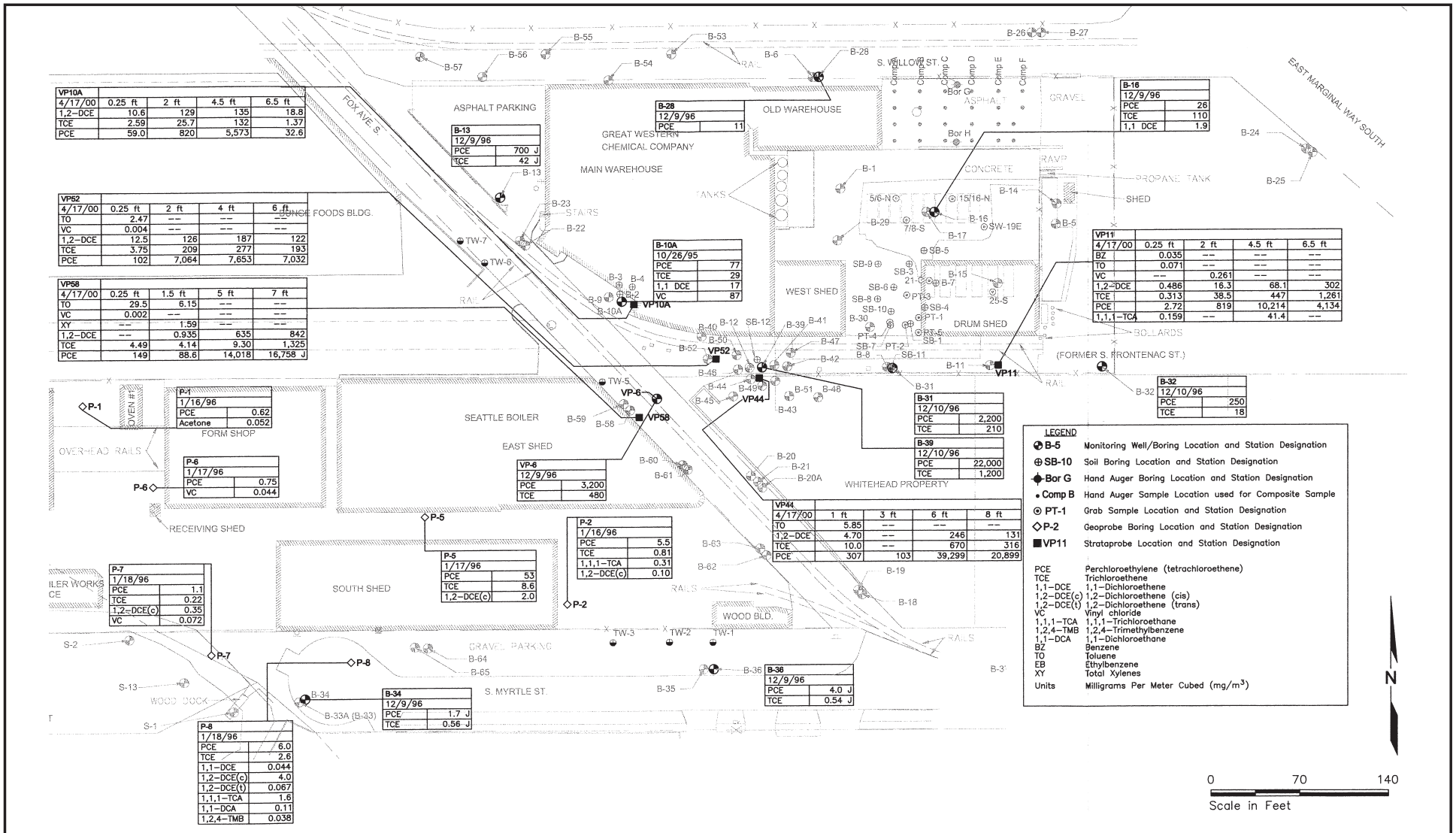
Figure 32
PCE, TCE, AND METHYLENE CHLORIDE RESULTS FOR SOIL - CASCADE COLUMBIA DISTRIBUTION
(IN OPERATION AS GREAT WESTERN CHEMICAL)

Date:	Drawn by:	
5/21/08	AES	10:002330WD1403\fig32



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RM 2.0-2.3 EAST
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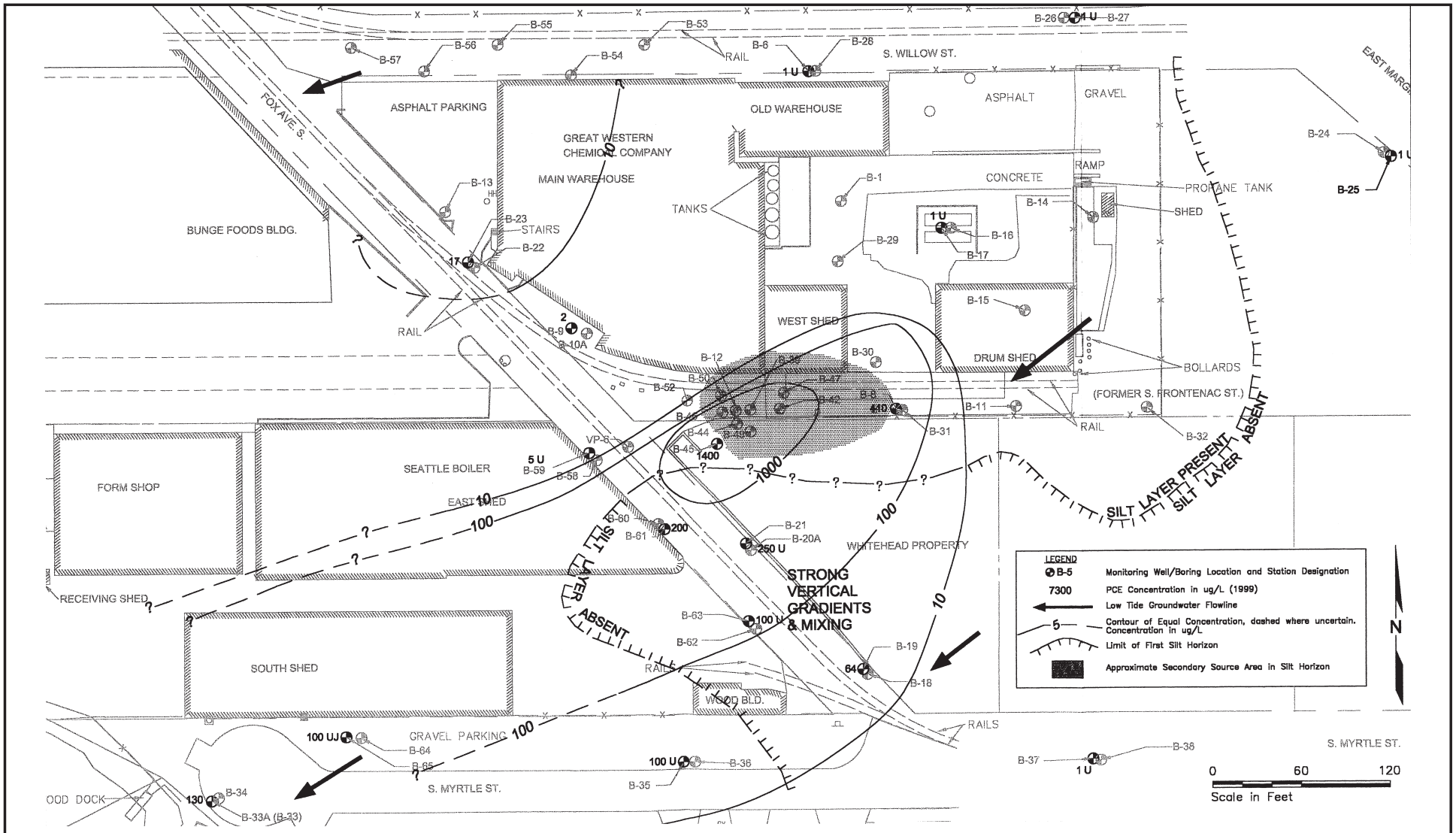
Figure 33

SOIL VAPOR RESULTS - CASCADE COLUMBIA DISTRIBUTION
(IN OPERATION AS GREAT WESTERN CHEMICAL)

Date:	Drawn by:	
5/21/08	AES	10:002330WD1403\fig33



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Base Map Reference: Floyd & Snider Inc. 2000.

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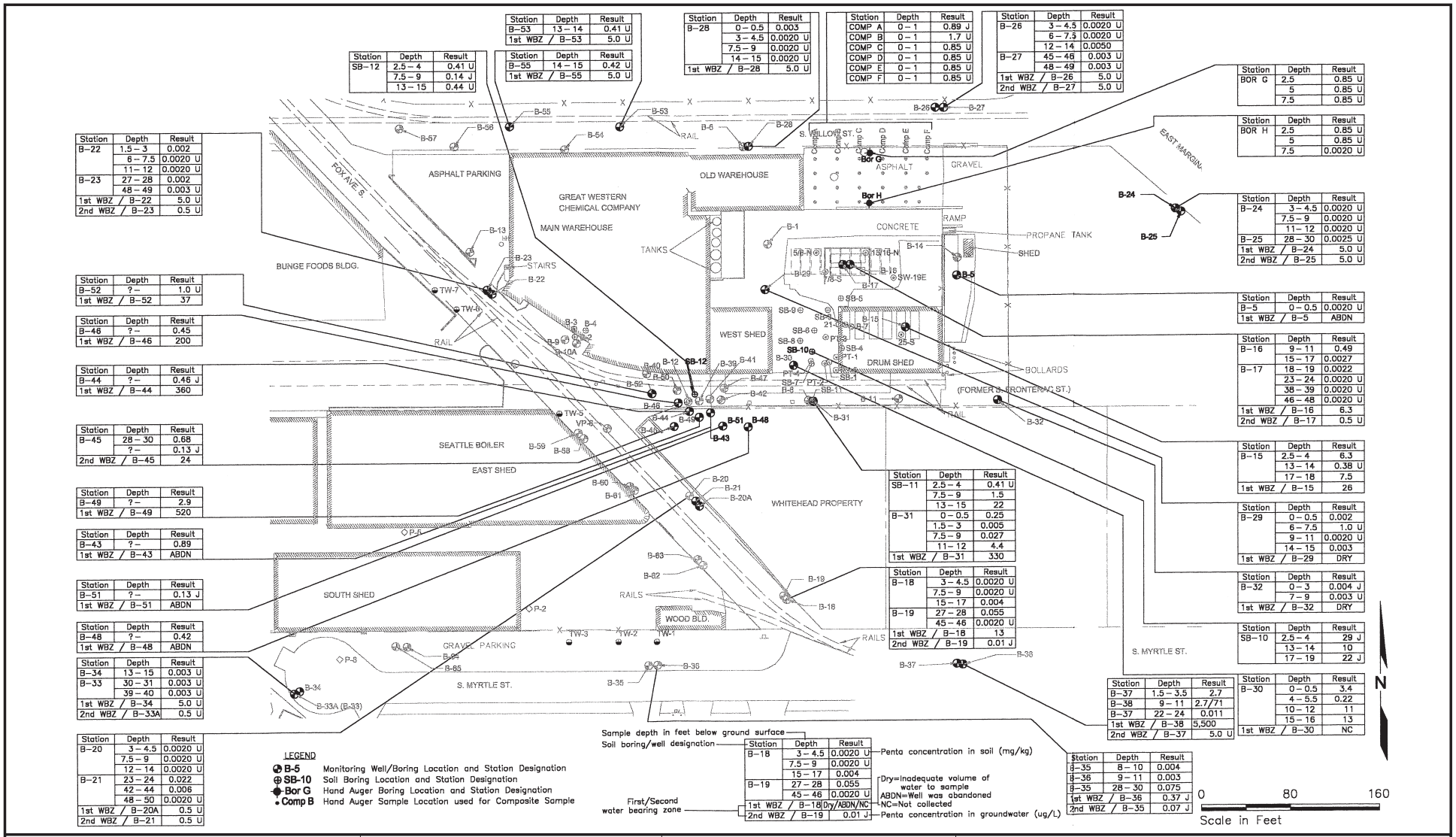
Figure 34
PCE IN 2nd WBZ (1999 SAMPLING EVENT) - CASCADE COLUMBIA DISTRIBUTION
(IN OPERATION AS GREAT WESTERN CHEMICAL)

Date:	Drawn by:	
5/21/08	AES	10:002330WD1403\fig34



Station	Depth	Result
B-53	13 – 14	0.41 U
1st WBZ / B-53		5.0 U

Station	Depth	Result
B-28	0 – 0.5	0.003
	3 – 4.5	0.0020 U
	7.5 – 9	0.0020 U
	14 – 15	0.0020 U
1st WBZ / B-28		5.0 U

Station	Depth	Result
COMP A	0 – 1	0.89 J
COMP B	0 – 1	1.7 U
COMP C	0 – 1	0.85 U
COMP D	0 – 1	0.85 U
COMP E	0 – 1	0.85 U
COMP F	0 – 1	0.85 U

Station	Depth	Result
B-26	3 – 4.5	0.0020 U
	6 – 7.5	0.0020 U
	12 – 14	0.0050
B-27	45 – 46	0.003 U
	48 – 49	0.003 U
1st WBZ / B-26		5.0 U
2nd WBZ / B-27		5.0 U

Station	Depth	Result
SB-12	2.5 – 4	0.41 U
	7.5 – 9	0.14 J
	13 – 15	0.44 U

Station	Depth	Result
B-55	14 – 15	0.42 U
1st WBZ / B-55		5.0 U

Station	Depth	Result
BOR G	2.5	0.85 U
	5	0.85 U
	7.5	0.85 U

Station	Depth	Result
BOR H	2.5	0.85 U
	5	0.85 U
	7.5	0.0020 U

Station	Depth	Result
B-22	1.5 – 3	0.002
	6 – 7.5	0.0020 U
	11 – 12	0.0020 U
B-23	27 – 28	0.002
	48 – 49	0.003 U
1st WBZ / B-22		5.0 U
2nd WBZ / B-23		0.5 U

Station	Depth	Result
B-24	3 – 4.5	0.0020 U
	7.5 – 9	0.0020 U
	11 – 12	0.0020 U
B-25	28 – 30	0.0025 U
1st WBZ / B-24		5.0 U
2nd WBZ / B-25		5.0 U

Station	Depth	Result
B-52	? –	1.0 U
1st WBZ / B-52		37

Station	Depth	Result
B-5	0 – 0.5	0.0020 U
1st WBZ / B-5		ABDN

Station	Depth	Result
B-46	? –	0.45
1st WBZ / B-46		200

Station	Depth	Result
B-16	9 – 11	0.49
	15 – 17	0.0027
B-17	18 – 19	0.0022
	23 – 24	0.0020 U
	38 – 39	0.0020 U
	46 – 48	0.0020 U
1st WBZ / B-16		6.3
2nd WBZ / B-17		0.5 U

Station	Depth	Result
B-44	? –	0.46 J
1st WBZ / B-44		360

Station	Depth	Result
B-45	28 – 30	0.68
	? –	0.13 J
2nd WBZ / B-45		24

Station	Depth	Result
B-15	2.5 – 4	6.3
	13 – 14	0.38 U
	17 – 18	7.5
1st WBZ / B-15		26

Station	Depth	Result
B-49	? –	2.9
1st WBZ / B-49		520

Station	Depth	Result
B-29	0 – 0.5	0.002
	6 – 7.5	1.0 U
	9 – 11	0.0020 U
	14 – 15	0.003
1st WBZ / B-29		DRY

Station	Depth	Result
SB-11	2.5 – 4	0.41 U
	7.5 – 9	1.5
	13 – 15	22
B-31	0 – 0.5	0.25
	1.5 – 3	0.005
	7.5 – 9	0.027
	11 – 12	4.4
1st WBZ / B-31		330

Station	Depth	Result
B-43	? –	0.89
1st WBZ / B-43		ABDN

Station	Depth	Result
B-32	0 – 3	0.004 J
	7 – 9	0.003 U
1st WBZ / B-32		DRY

Station	Depth	Result
B-51	? –	0.13 J
1st WBZ / B-51		ABDN

Station	Depth	Result
B-18	3 – 4.5	0.0020 U
	7.5 – 9	0.0020 U
	15 – 17	0.004
B-19	27 – 28	0.055
	45 – 46	0.0020 U
1st WBZ / B-18		13
2nd WBZ / B-19		0.01 J

Station	Depth	Result
SB-10	2.5 – 4	29 J
	13 – 14	10
	17 – 19	22 J

Station	Depth	Result
B-48	? –	0.42
1st WBZ / B-48		ABDN

Station	Depth	Result
B-34	13 – 15	0.003 U
B-33	30 – 31	0.003 U
	39 – 40	0.003 U
1st WBZ / B-34		5.0 U
2nd WBZ / B-33A		0.5 U

Station	Depth	Result
B-37	1.5 – 3.5	2.7
B-38	9 – 11	2.7/71
B-37	22 – 24	0.011
1st WBZ / B-38		5,500
2nd WBZ / B-37		5.0 U

Station	Depth	Result
B-30	0 – 0.5	3.4
	4 – 5.5	0.22
	10 – 12	11
	15 – 16	13
1st WBZ / B-30		NC

Station	Depth	Result
B-20	3 – 4.5	0.0020 U
	7.5 – 9	0.0020 U
	12 – 14	0.0020 U
B-21	23 – 24	0.022
	42 – 44	0.006
	48 – 50	0.0020 U
1st WBZ / B-20A		0.5 U
2nd WBZ / B-21		0.5 U

LEGEND

- B-5 Monitoring Well/Boring Location and Station Designation
- SB-10 Soil Boring Location and Station Designation
- Bor G Hand Auger Boring Location and Station Designation
- Comp B Hand Auger Sample Location used for Composite Sample

Sample depth in feet below ground surface
Soil boring/well designation

Station	Depth	Result
B-18	3 – 4.5	0.0020 U
	7.5 – 9	0.0020 U
	15 – 17	0.004
B-19	27 – 28	0.055
	45 – 46	0.0020 U
1st WBZ / B-18		Dry/ABDN/NC
2nd WBZ / B-19		0.01 J

Penta concentration in soil (mg/kg)

Dry=Inadequate volume of water to sample
ABDN=Well was abandoned
NC=Not collected

First/Second water bearing zone

Penta concentration in groundwater (ug/L)

Station	Depth	Result
B-35	8 – 10	0.004
B-36	9 – 11	0.003
B-35	28 – 30	0.075
1st WBZ / B-36		0.37 J
2nd WBZ / B-35		0.07 J

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Figure 35

PENTA RESULTS FOR SOIL - CASCADE COLUMBIA DISTRIBUTION
(IN OPERATION AS GREAT WESTERN CHEMICAL)

Date:	Drawn by:	
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