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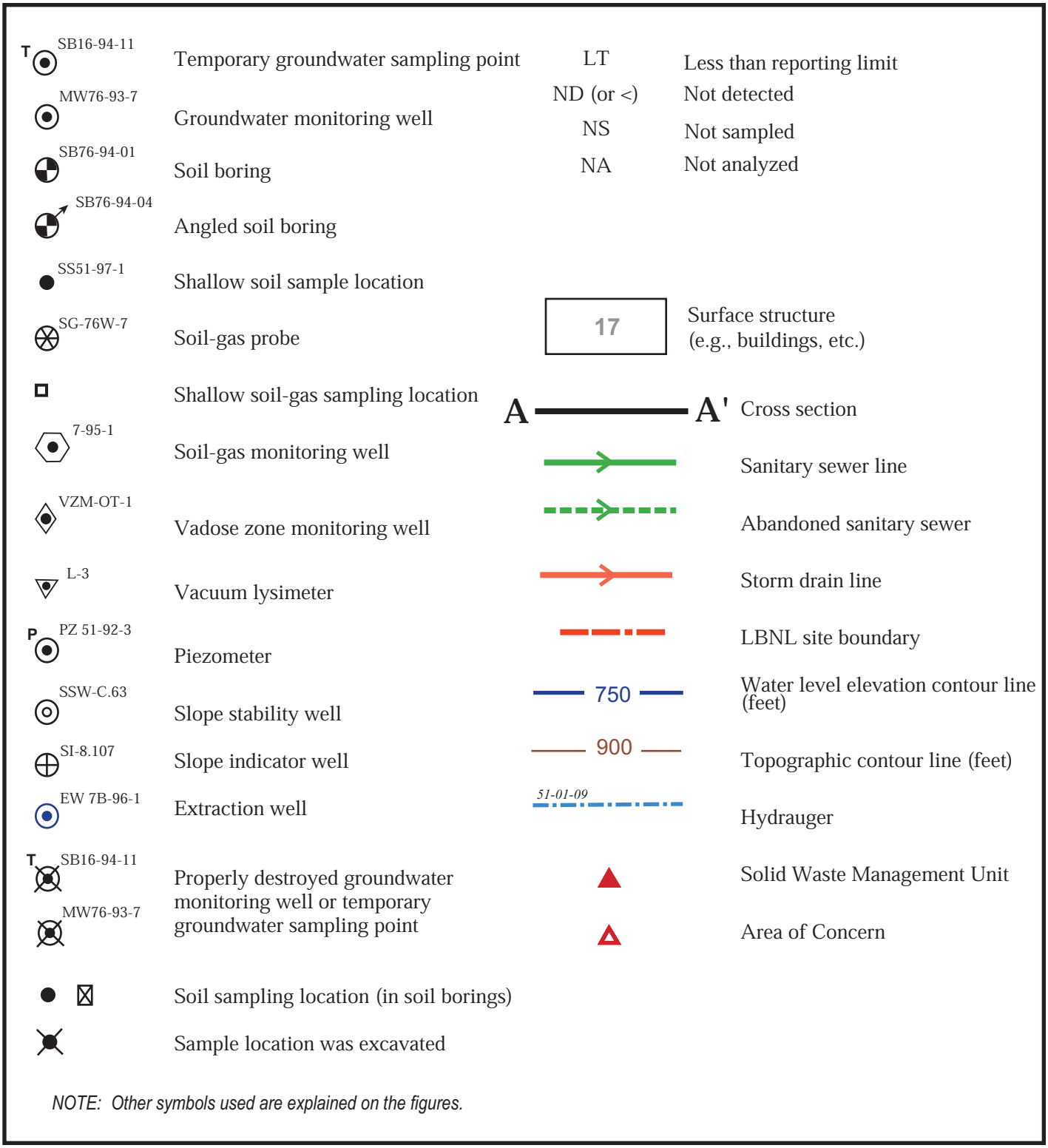

Figure B-1. Key to Symbols Used on Figures.

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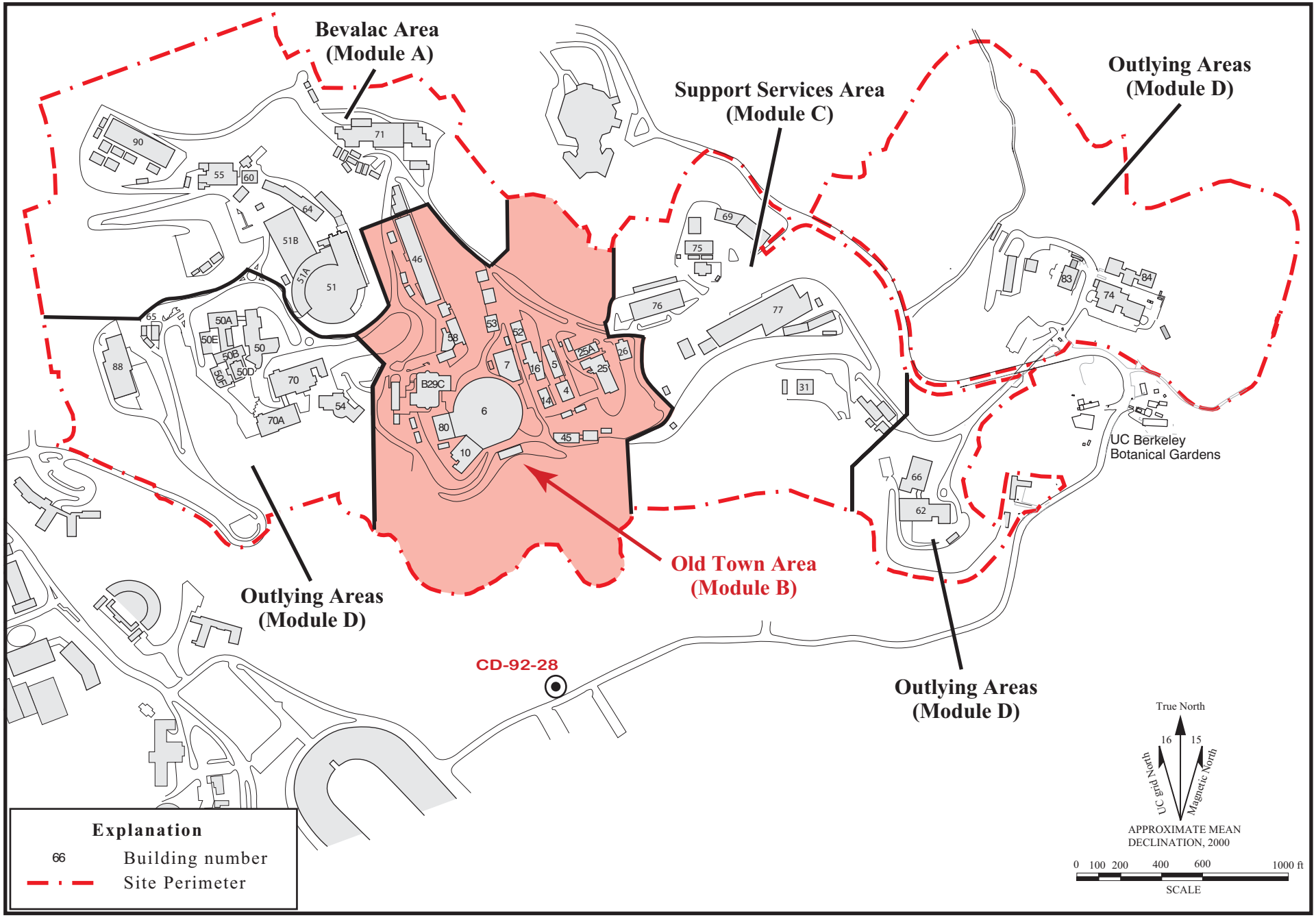

Figure B-2. Location of Old Town Area, Lawrence Berkeley National Laboratory.

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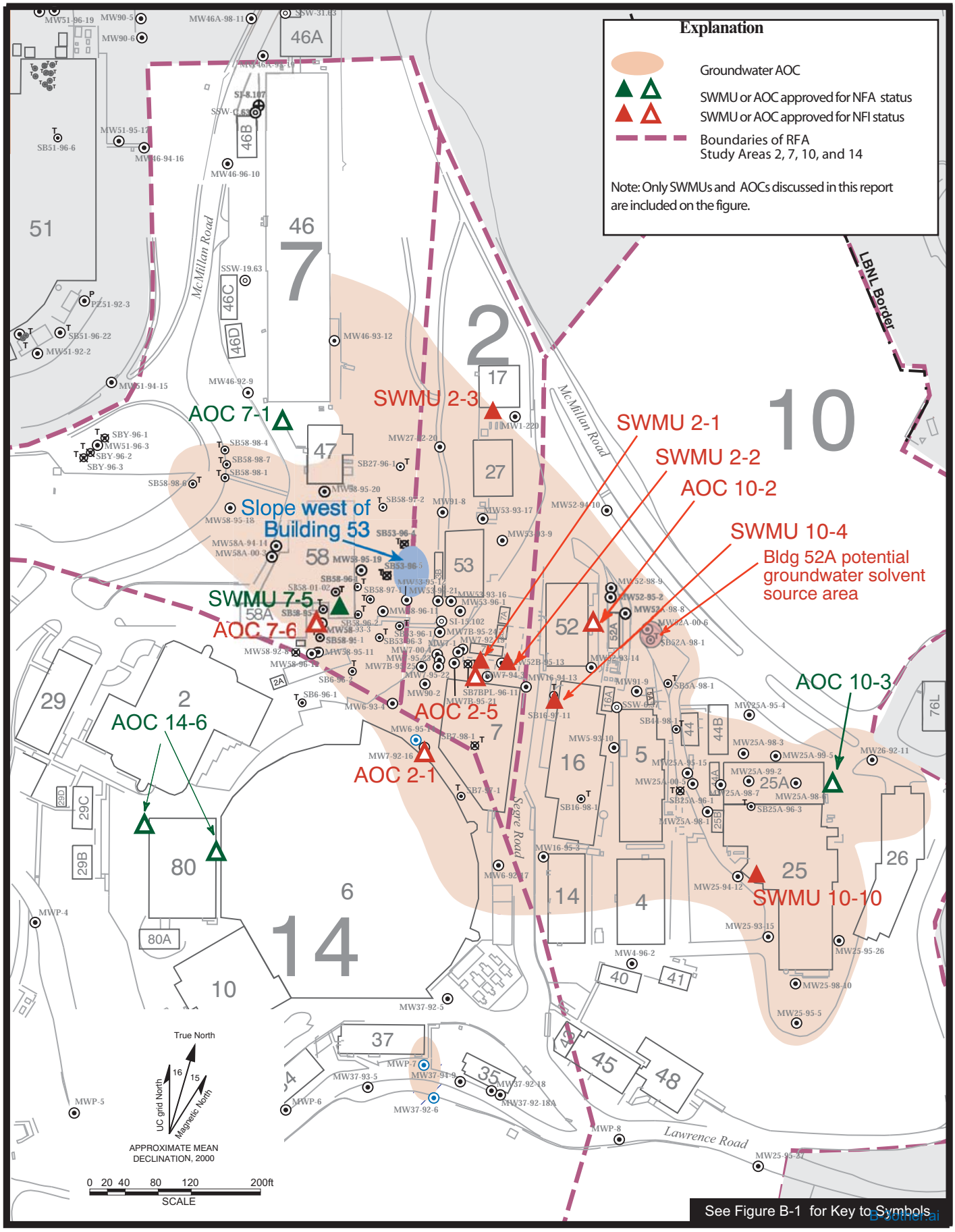

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Figure B3. SWMUs, AOCs, and Other Investigation Areas Within the Old Town Area

Age	Formation	Description
Quaternary	Artificial fill	Generally engineered fill consisting of fine-grained material. Older fills include vegetative and other debris.
	Colluvium	Predominantly clayey silt.
	Debris flows	Boulders and gravels of basalt, chert, and porcelenite in a silty clay matrix.
	Landslides	Translational/rotational slide masses incorporating bedrock. Occur at the Moraga/Orinda Formation contact.

	WEST OF HAYWARD FAULT	EAST OF HAYWARD FAULT					
		West of Life Sciences Area Main Canyon Landslide Deposit			*East of Life Sciences Area Main Canyon Landslide Deposit*		
Age		**Group**	**Formation**	**Description**	**Group**	**Formation**	**Description**
Tertiary		Contra Costa	Moraga	Andesitic flows, breccias, and agglomerates with minor amounts of basaltic flows and interbedded volcaniclastic sandstone and conglomerate.	San Pablo (?)	Neroly	Fossiliferous, shallow marine, fine grained sandstones with minor amounts of siltstone.
			Orinda	Alluvial sedimentary deposits consisting primarily of claystone and siltstone with lenticular to linear beds of sandstone and conglomerate.		Briones	Fossiliferous, shallow marine, fine grained sandstones with minor amounts of siltstone.
					Monterey	Claremont	Chert and shale with minor amounts of sandstone.
Cretaceous		Great Valley		Marine mudstones, shales, and sandstones.			
Jurassic	Franciscan Complex						

Figure B2.1-1. Stratigraphic Correlation Chart, Lawrence Berkeley National Laboratory.

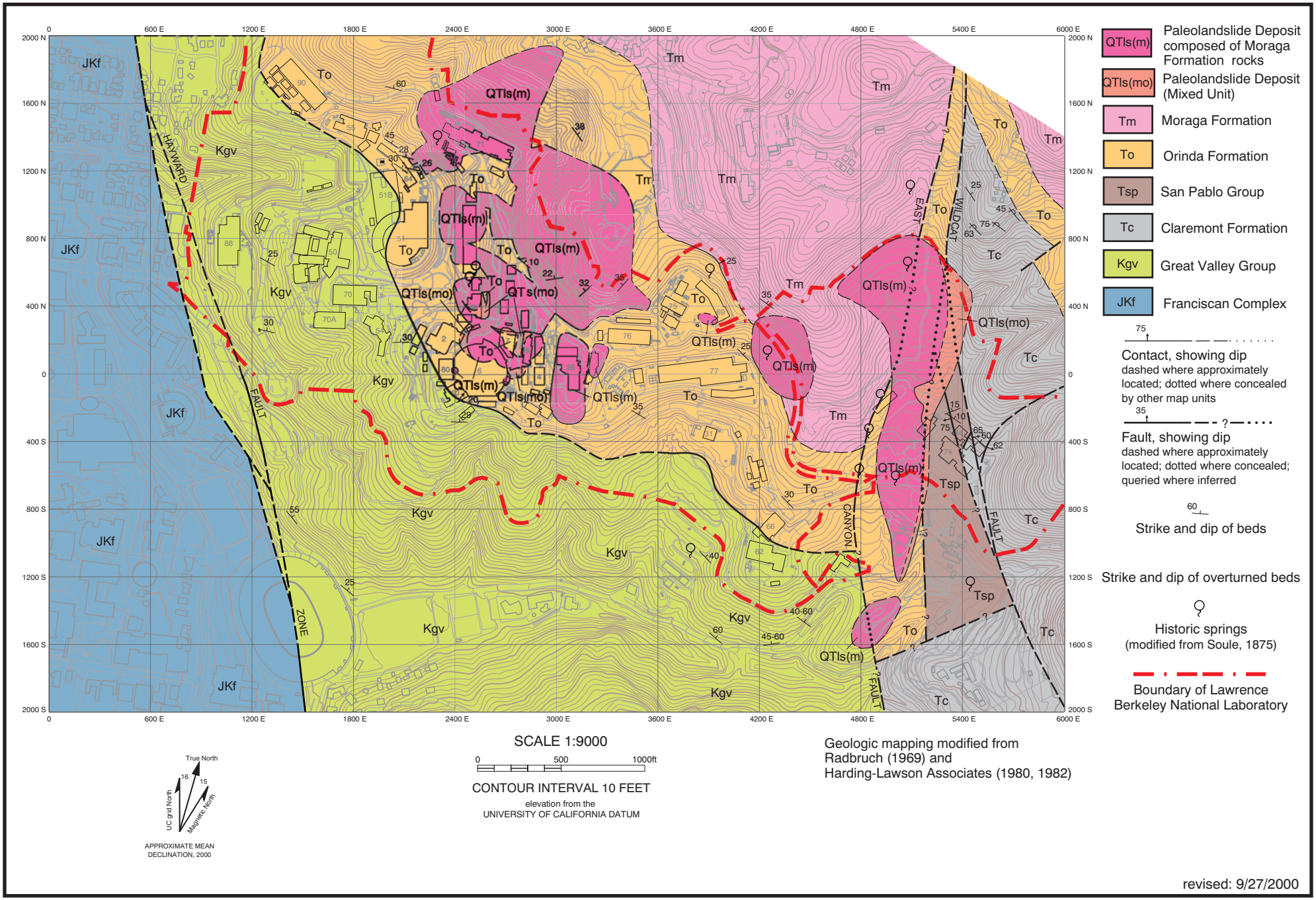

Figure B2.1-2. Bedrock Geologic Map, Lawrence Berkeley National Laboratory.

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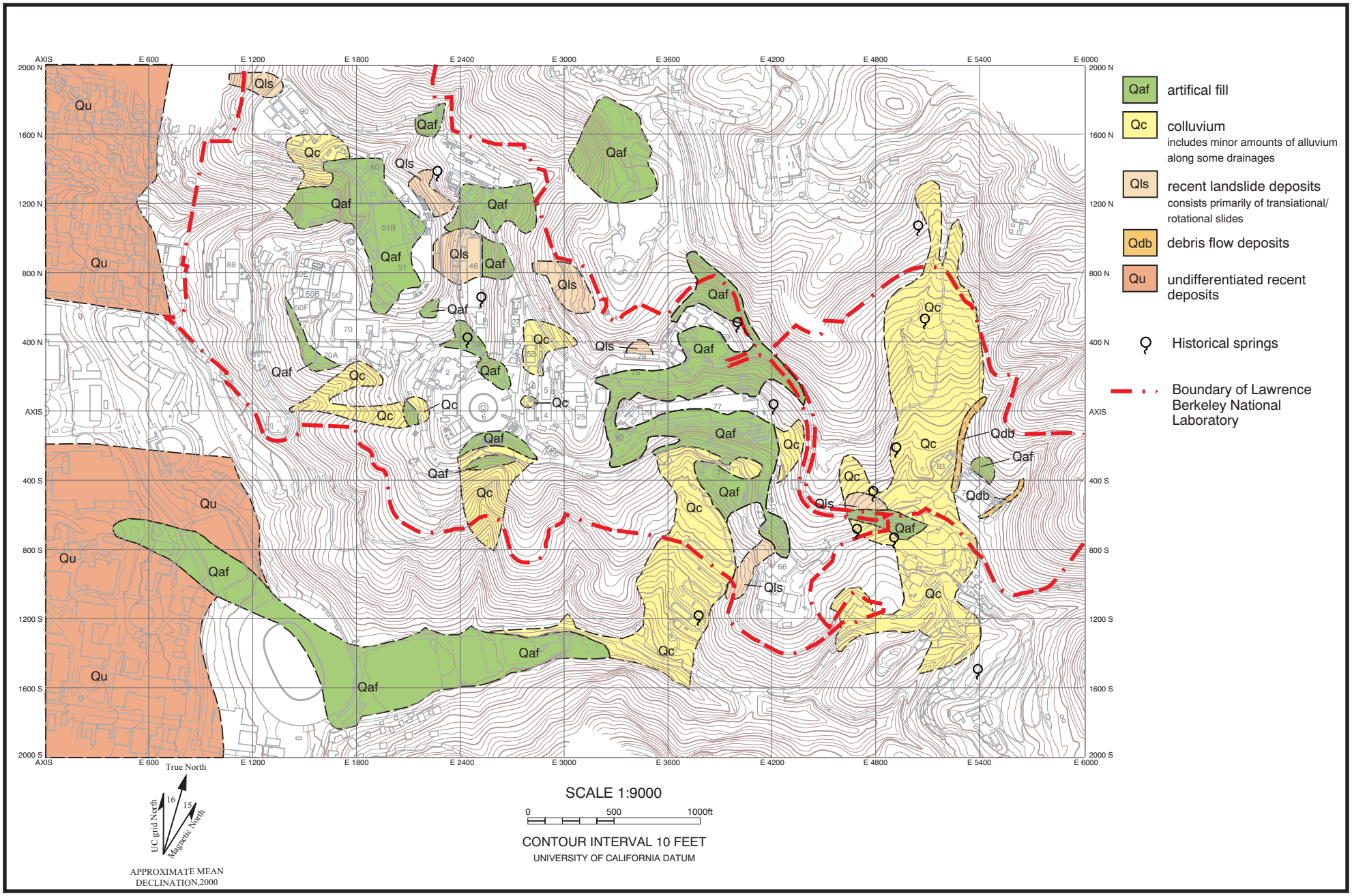

Figure B2.1-3 Surficial Geologic Map (modified from Harding-Lawson Associates, 1982).

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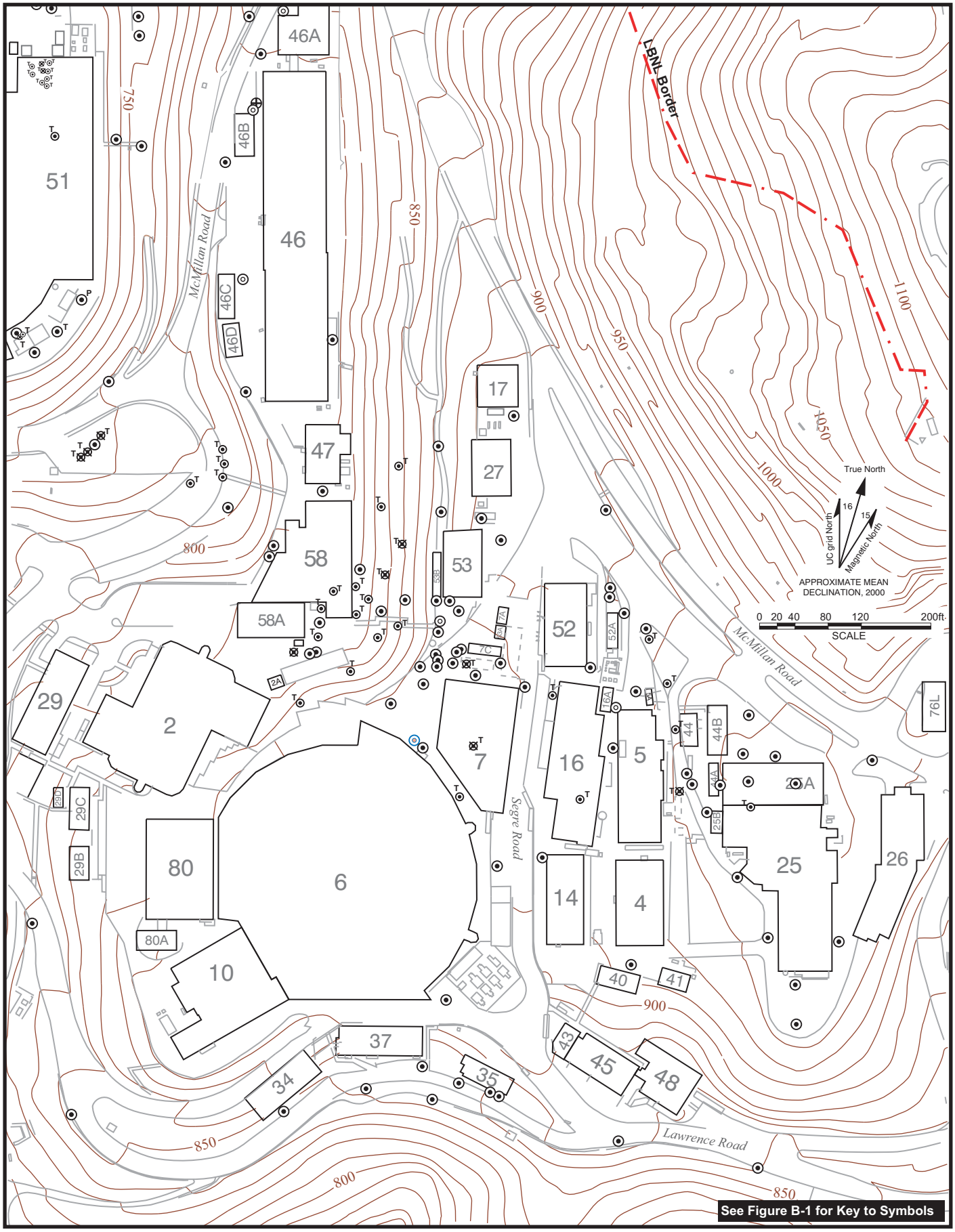

Figure B2.2-1. Topography of the Old Town Area.

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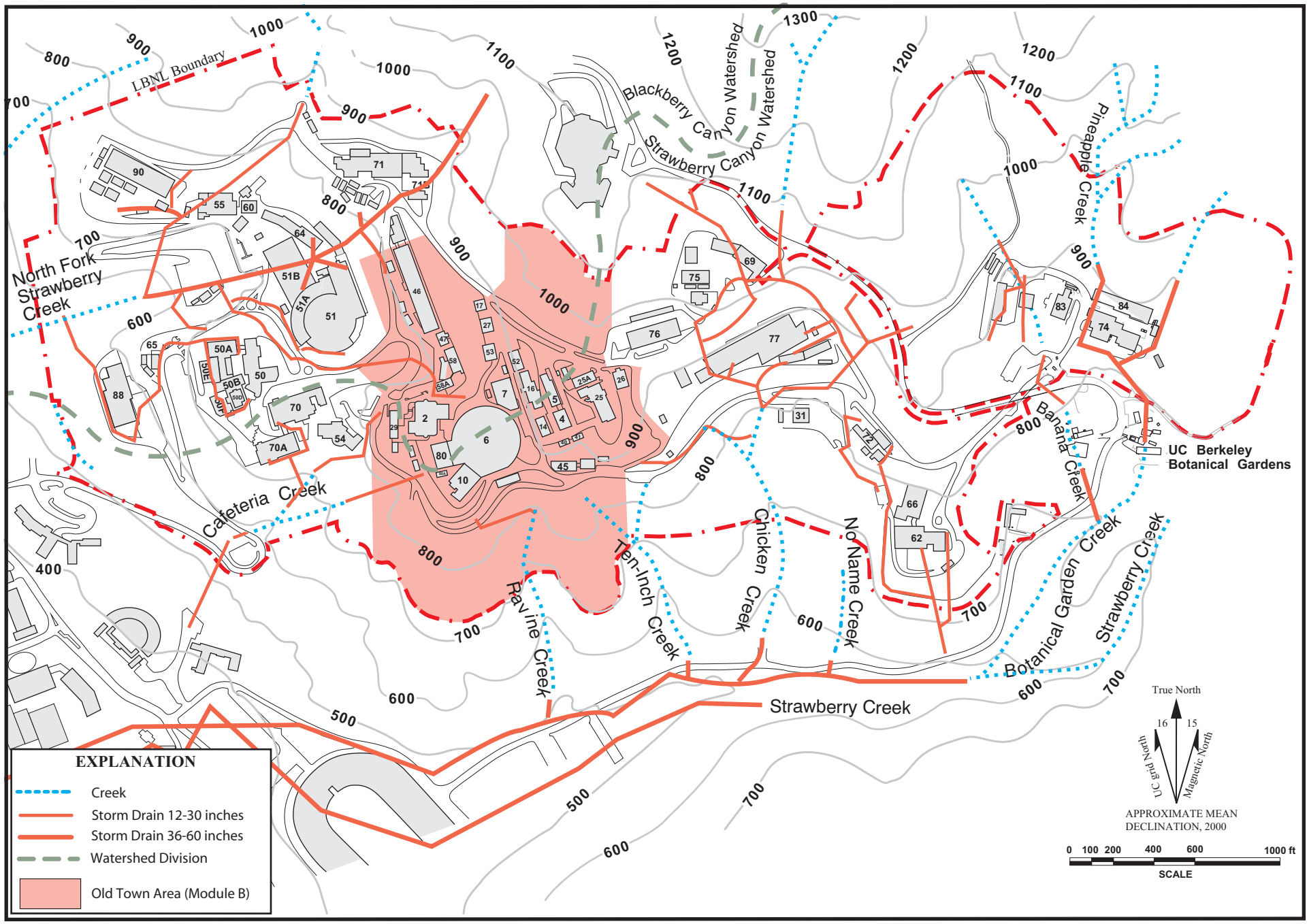

Figure B2.2-2. LBNL Surface Hydrology and Stormwater Drainage System.

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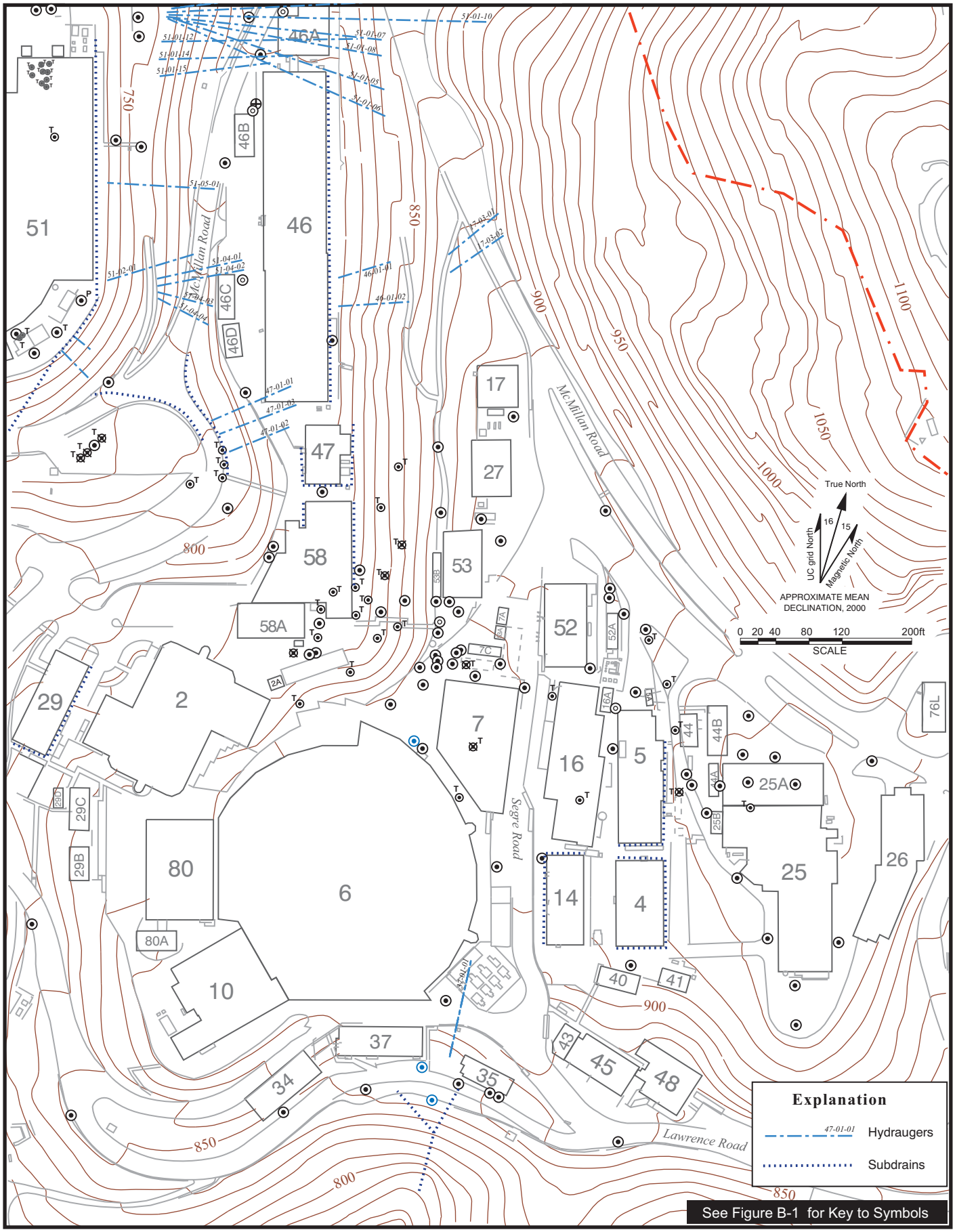

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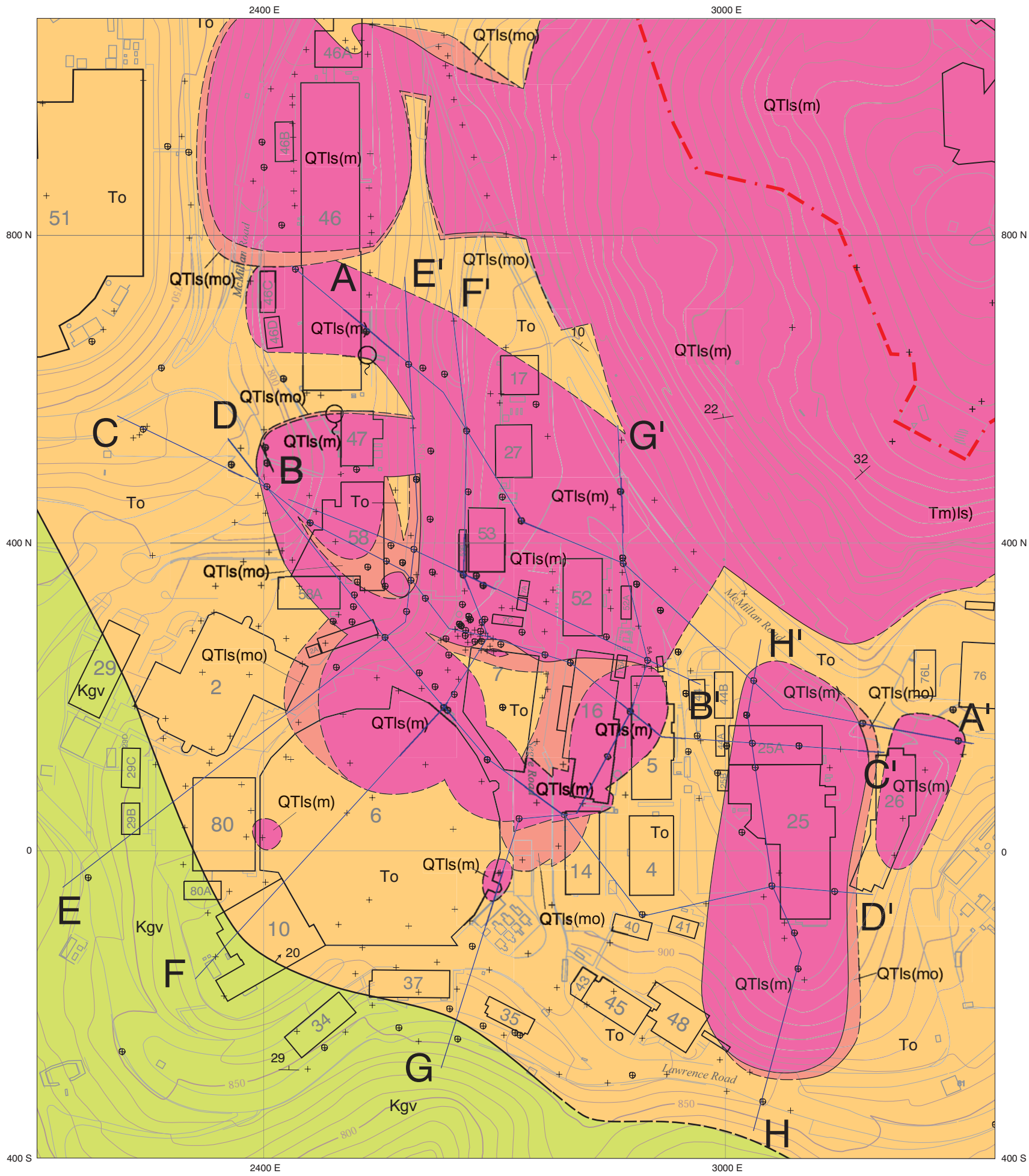
Figure B2.2-3. Hydraugers and Subdrains in the Old Town Area.



SCALE 1:1800

0 150 300ft

CONTOUR INTERVAL 10 FEET
UNIVERSITY OF CALIFORNIA DATUM

True North
UC grid North
Magnetic North
APPROXIMATE MEAN DECLINATION, 2000

QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks
QTls(mo)	Paleolandslide Deposit (Mixed Unit)
Tm	Moraga Formation
To	Orinda Formation
Tsp	San Pablo Group
Tc	Claremont Formation
Kgv	Great Valley Group
JKf	Franciscan Complex

tinted box indicates unit appears in figure

Boundary of Lawrence Berkeley National Laboratory

Environmental monitoring wells includes groundwater and soil gas wells and lysimeters

Soil borings includes slope indicators and slope stability wells

Historic springs (modified from Soule, 1875)

75
Contact, showing dip
dashed where approximately located; dotted where concealed by other map units

35
Fault, showing dip
dashed where approximately located; dotted where concealed; queried where inferred

60
Strike and dip of beds

revision: 9/26/2000

Figure B2.3-1. Old Town Area Bedrock Geologic Map.

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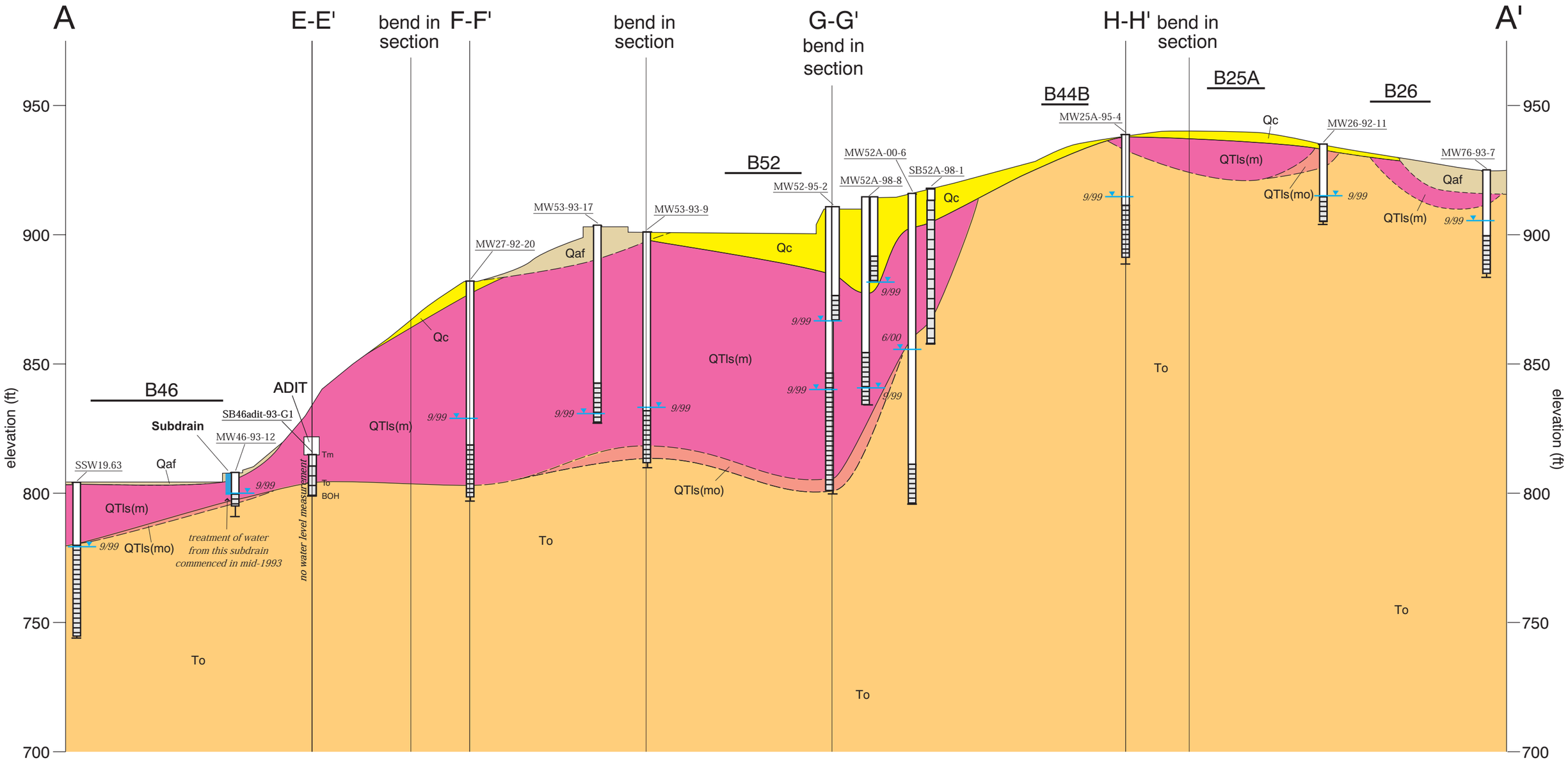

HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 — approximate horizontal location of buildings on or near section

tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Contact — dashed where approximately located

Fault — dashed where approximately located; queried where inferred

generalized apparent dip

GROUNDWATER MONITORING WELL — MW58-93-3

TEMPORARY GROUNDWATER SAMPLING POINT — SB53-96-5

SOIL BORING — HLA9.172

SOIL GAS MONITORING WELL

Well name; Well casing; Water level with month of measurement; Screened interval; Total boring depth; Boring name; Total boring depth; Well casing; Screened interval

revision: 9/27/2000

Figure B2.3-2. Old Town Area Cross Section A-A'.

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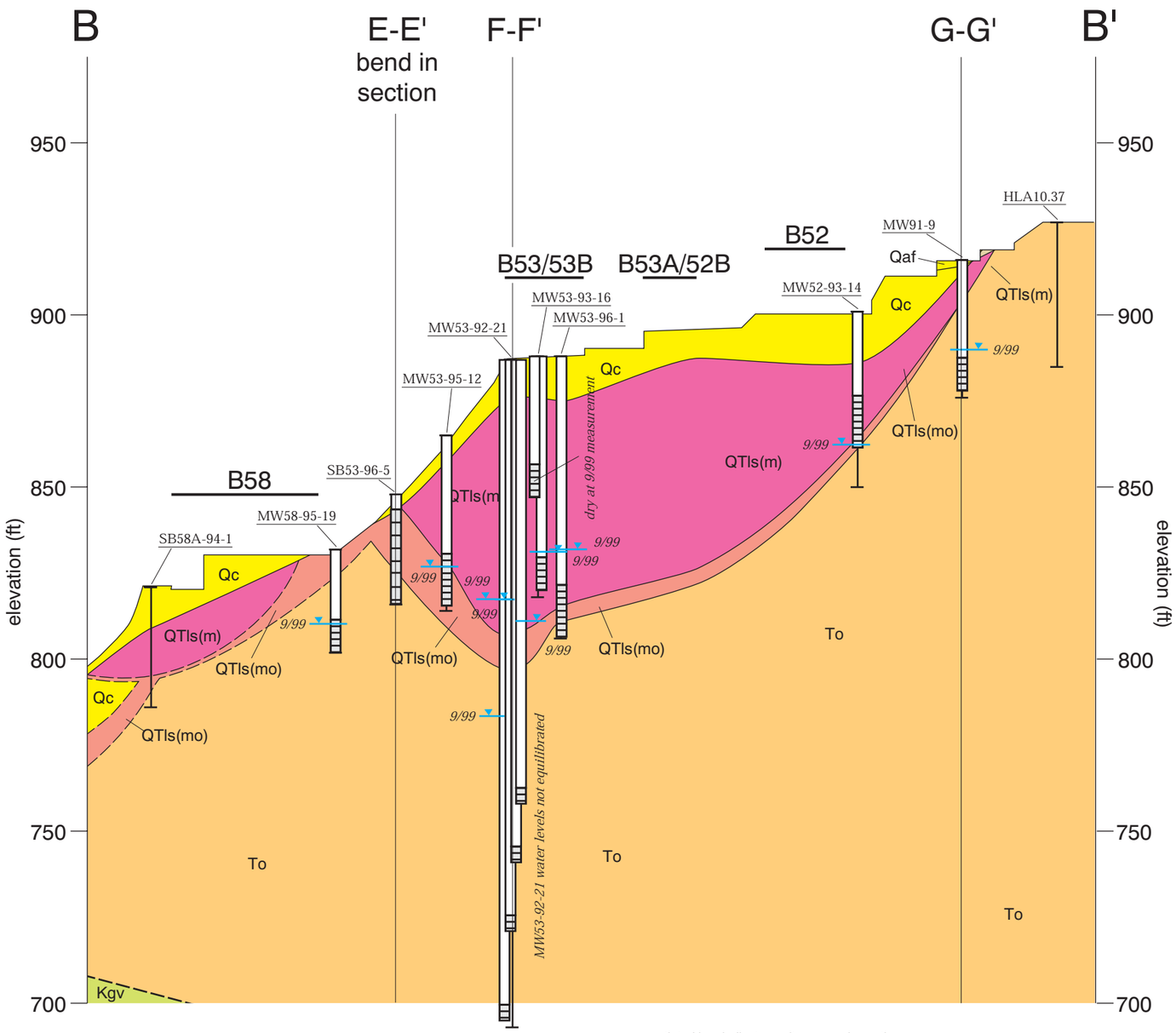


HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 — approximate horizontal location of buildings on or near section

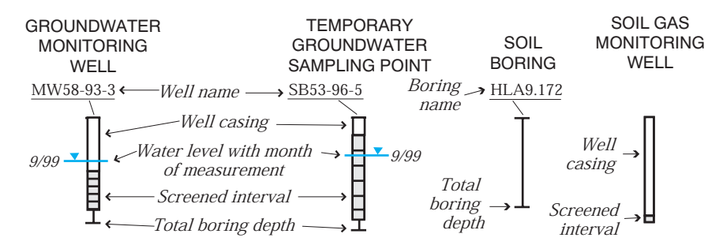
tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Contact — dashed where approximately located

Fault — dashed where approximately located; queried where inferred

generalized apparent dip



revision: 9/27/2000

Figure B2.3-3. Old Town Area Cross Section B-B'.

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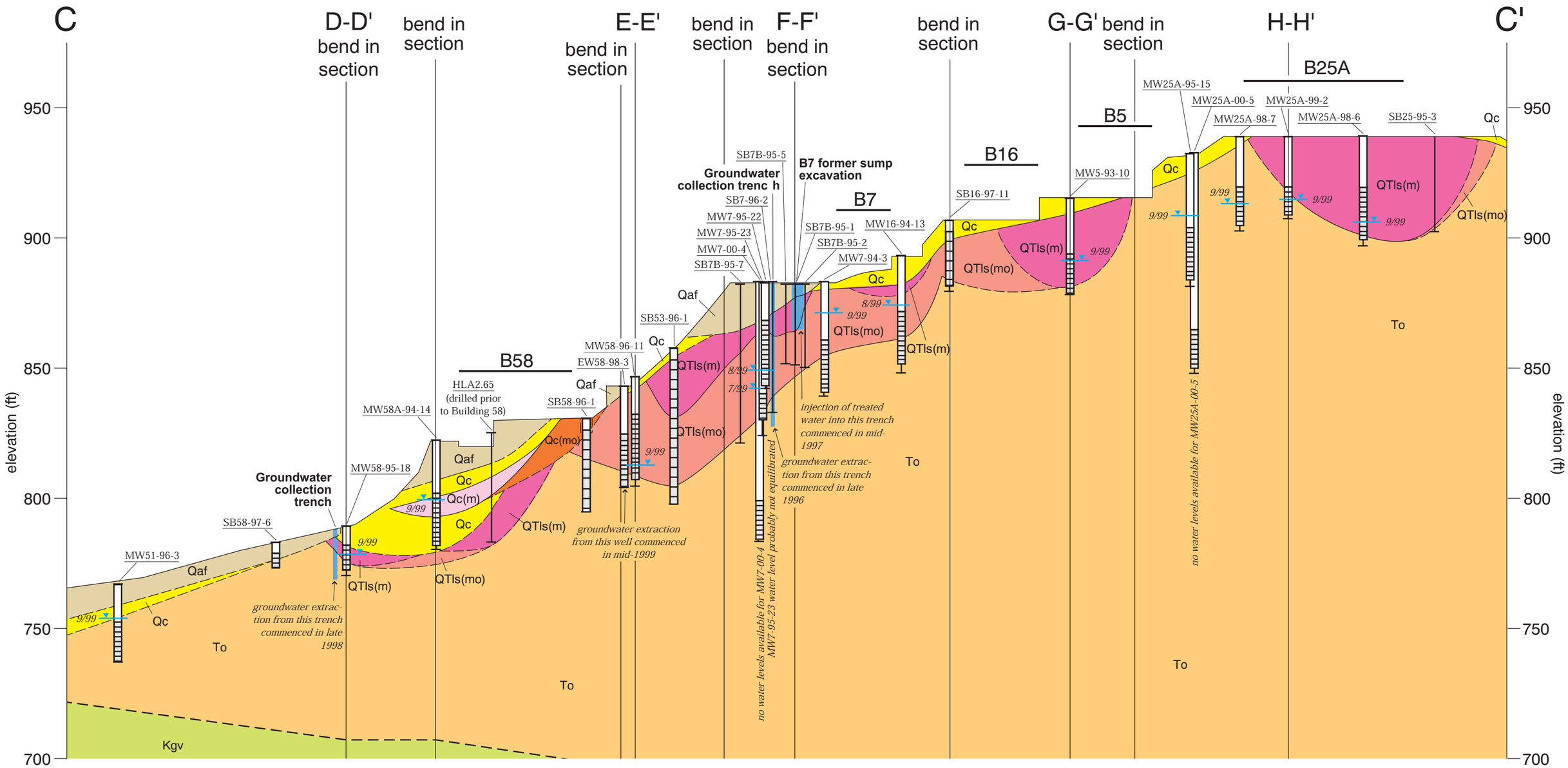

HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 approximate horizontal location of buildings on or near section

tinted box indicates unit appears in section

Qaf	artificial fill	Qdb	debris flow deposits	To	Orinda Formation
Qc	colluvium (may locally include alluvium)	QTls(m)	paleolandslide deposit composed of Moraga Formation rocks	Tsp	San Pablo Group
Qc(m)	colluvium composed of Moraga Formation Rocks	QTls(mo)	paleolandslide deposit (Mixed Unit)	Tc	Claremont Formation
Qc(m)	colluvium composed of Mixed Unit Rocks	Tm	Moraga Formation	Kgv	Great Valley Group

Contact — dashed where approximately located

Fault — dashed where approximately located; queried where inferred

generalized apparent dip

GROUNDWATER MONITORING WELL — MW58-93-3 — Well name — Well casing — Water level with month of measurement — 9/99 — Screened interval — Total boring depth

TEMPORARY GROUNDWATER WELL — SB53-96-5 — Well name — Well casing — Water level with month of measurement — 9/99 — Screened interval — Total boring depth

SOIL BORING — Boring name — HLA9.172 — Total boring depth

SOIL GAS MONITORING WELL — Well casing — Screened interval

revision: 9/27/2000

Figure B2.3-4. Old Town Area Cross Section C-C'.

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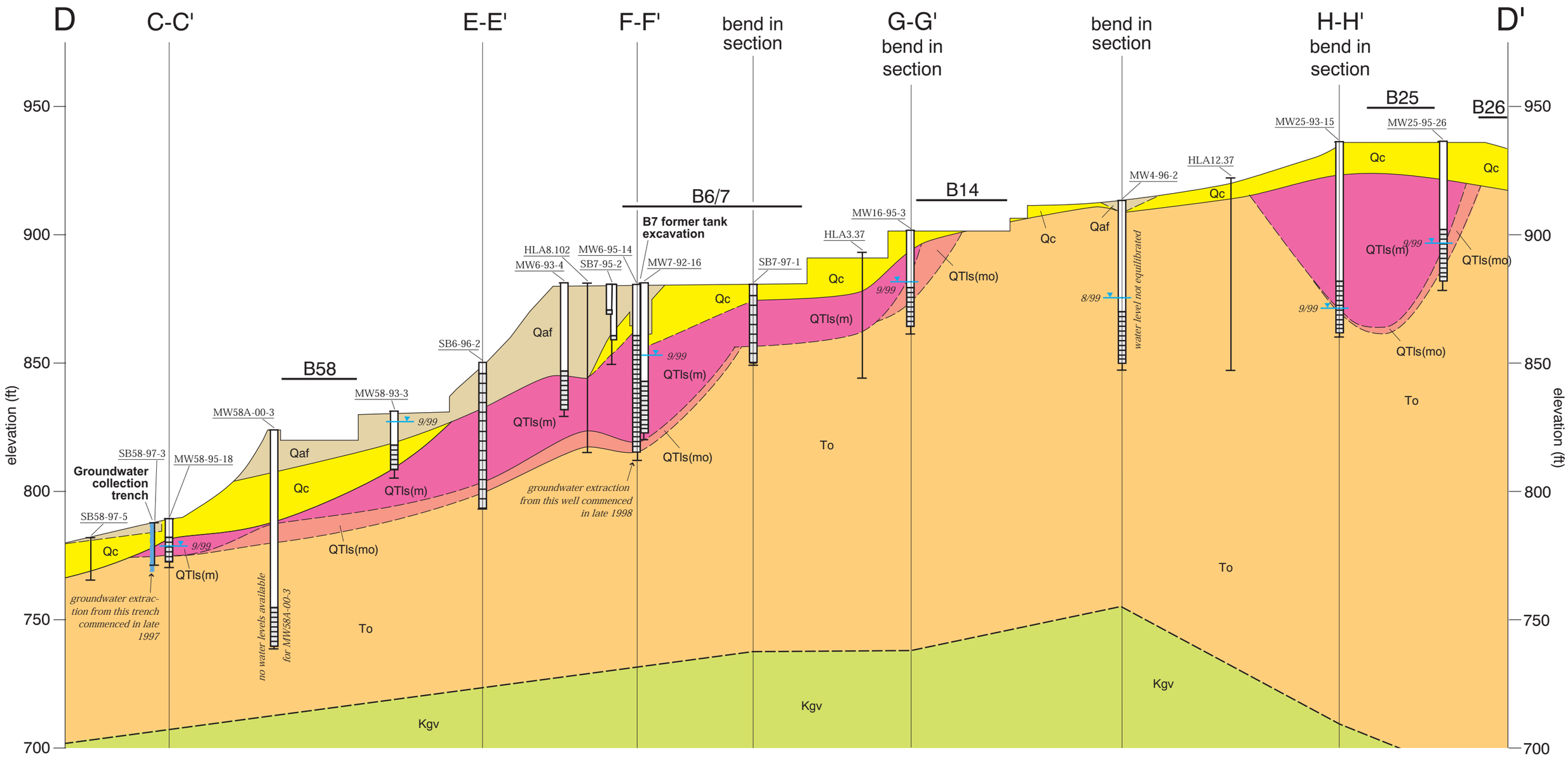


HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 — approximate horizontal location of buildings on or near section

tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Contact — dashed where approximately located

Fault — dashed where approximately located; queried where inferred

generalized apparent dip

GROUNDWATER MONITORING WELL: MW58-93-3 — Well name; Well casing; Water level with month of measurement; Screened interval; Total boring depth; 9/99

TEMPORARY GROUNDWATER SAMPLING POINT: SB53-96-5 — 9/99

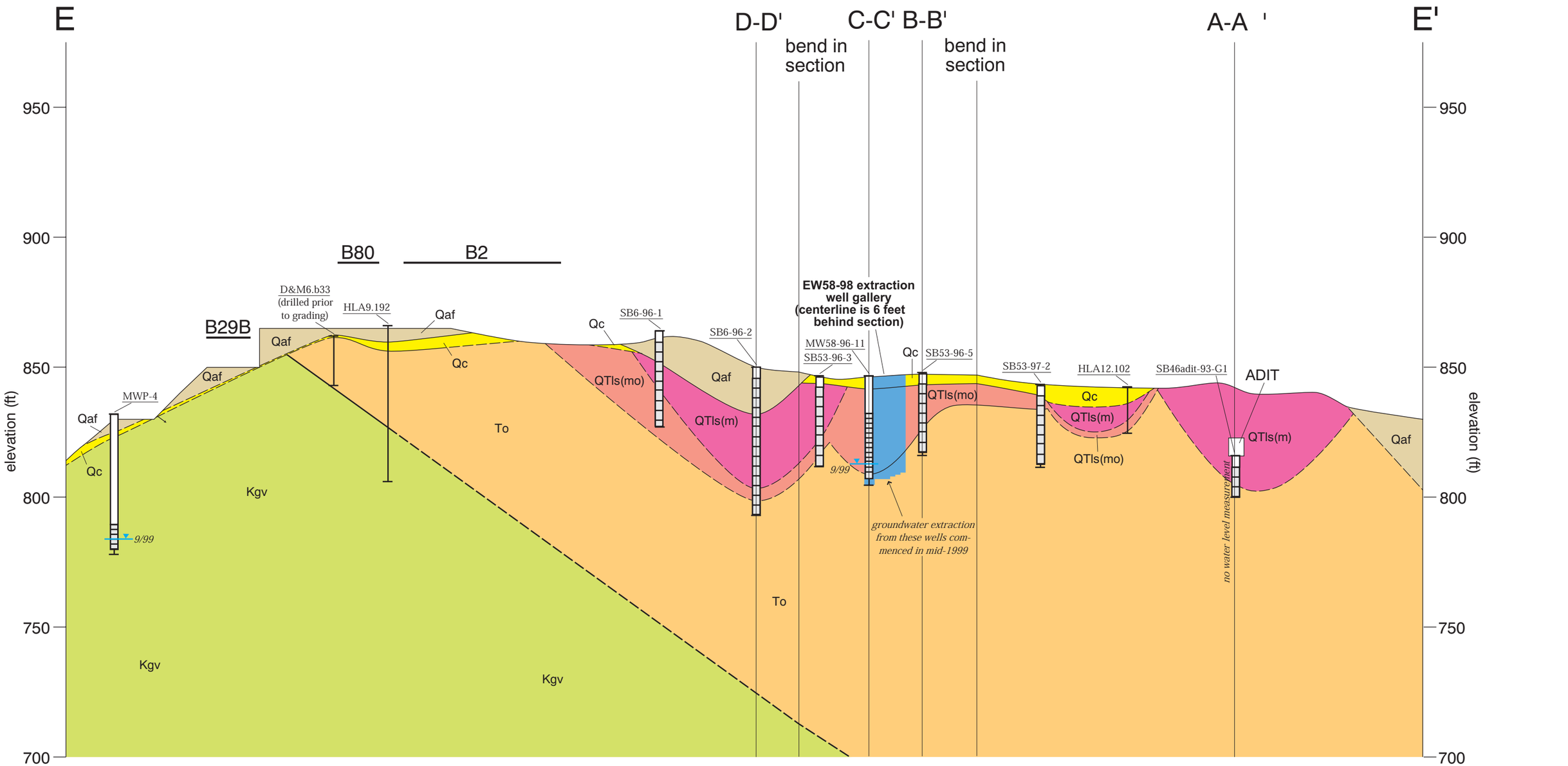
SOIL BORING: Boring name HLA9.172; Total boring depth

SOIL GAS MONITORING WELL: Well casing; Screened interval

revision: 9/27/2000

Figure B2.3-5. Old Town Area Cross Section D-D'.

B2.3-5 ot sec d.ai
09/00



HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 — approximate horizontal location of buildings on or near section

tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Contact — dashed where approximately located

Fault — dashed where approximately located; queried where inferred

generalized apparent dip

GROUNDWATER MONITORING WELL: MW58-93-3 — Well name; Well casing; Water level with month of measurement (9/99); Screened interval; Total boring depth

TEMPORARY GROUNDWATER SAMPLING POINT: SB53-96-5 — Well name; Well casing; Water level with month of measurement (9/99); Screened interval; Total boring depth

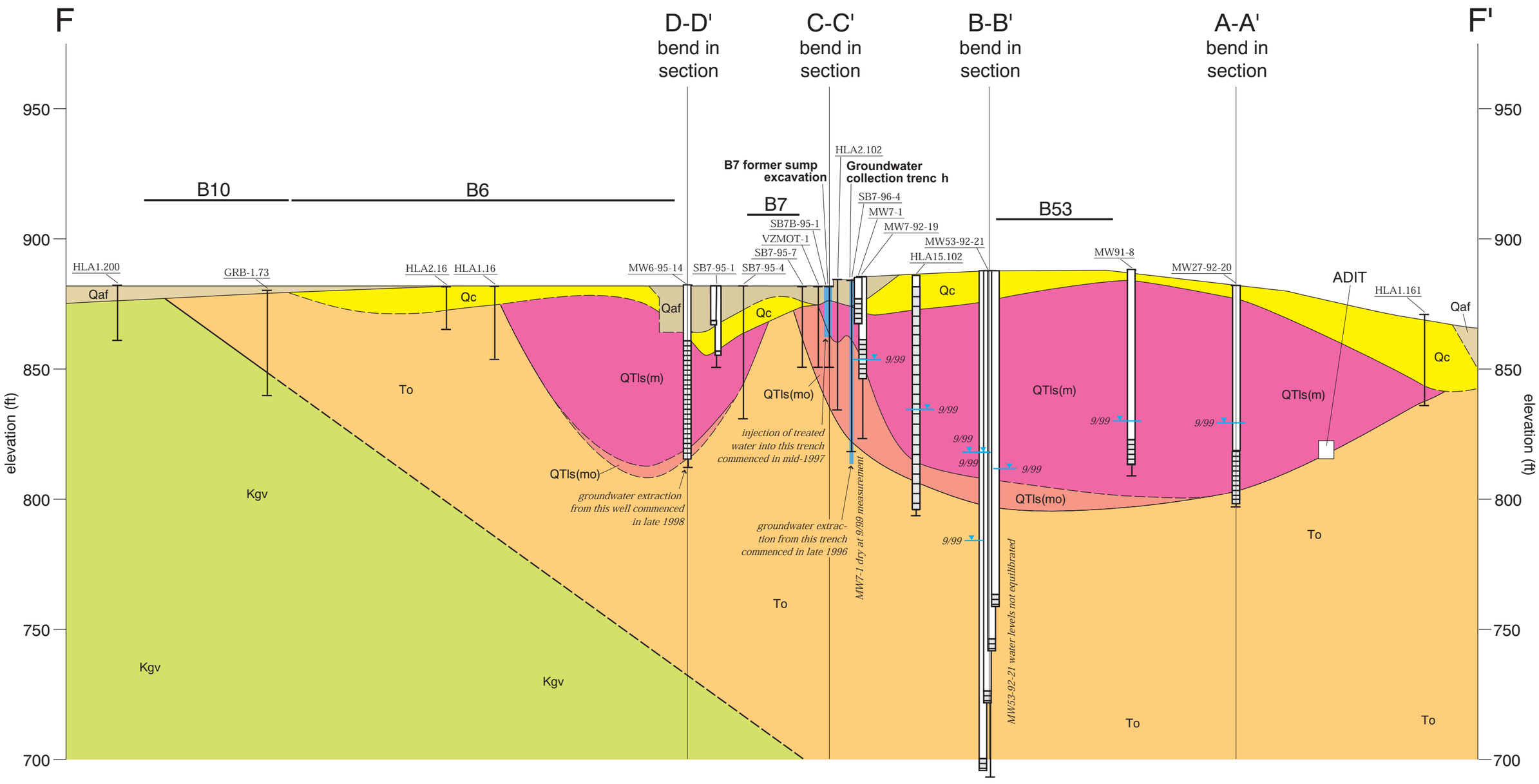
SOIL BORING: HLA9.172 — Boring name; Total boring depth

SOIL GAS MONITORING WELL — Well casing; Screened interval

revision: 9/27/2000

Figure B2.3-6. Old Town Area Cross Section E-E'.

B2.3-6 ot sec e.ai
09/00



HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the
UNIVERSITY OF CALIFORNIA DATUM

B58 approximate horizontal location of buildings on or near section

tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Contact
dashed where approximately located

Fault
dashed where approximately located; queried where inferred

generalized apparent dip

GROUNDWATER MONITORING WELL

TEMPORARY GROUNDWATER SAMPLING POINT

SOIL BORING

SOIL GAS MONITORING WELL

MW58-93-3 — Well name — SB53-96-5

Well casing

9/99 — Water level with month of measurement — 9/99

Screened interval

Total boring depth

Boring name — HLA9.172

Total boring depth

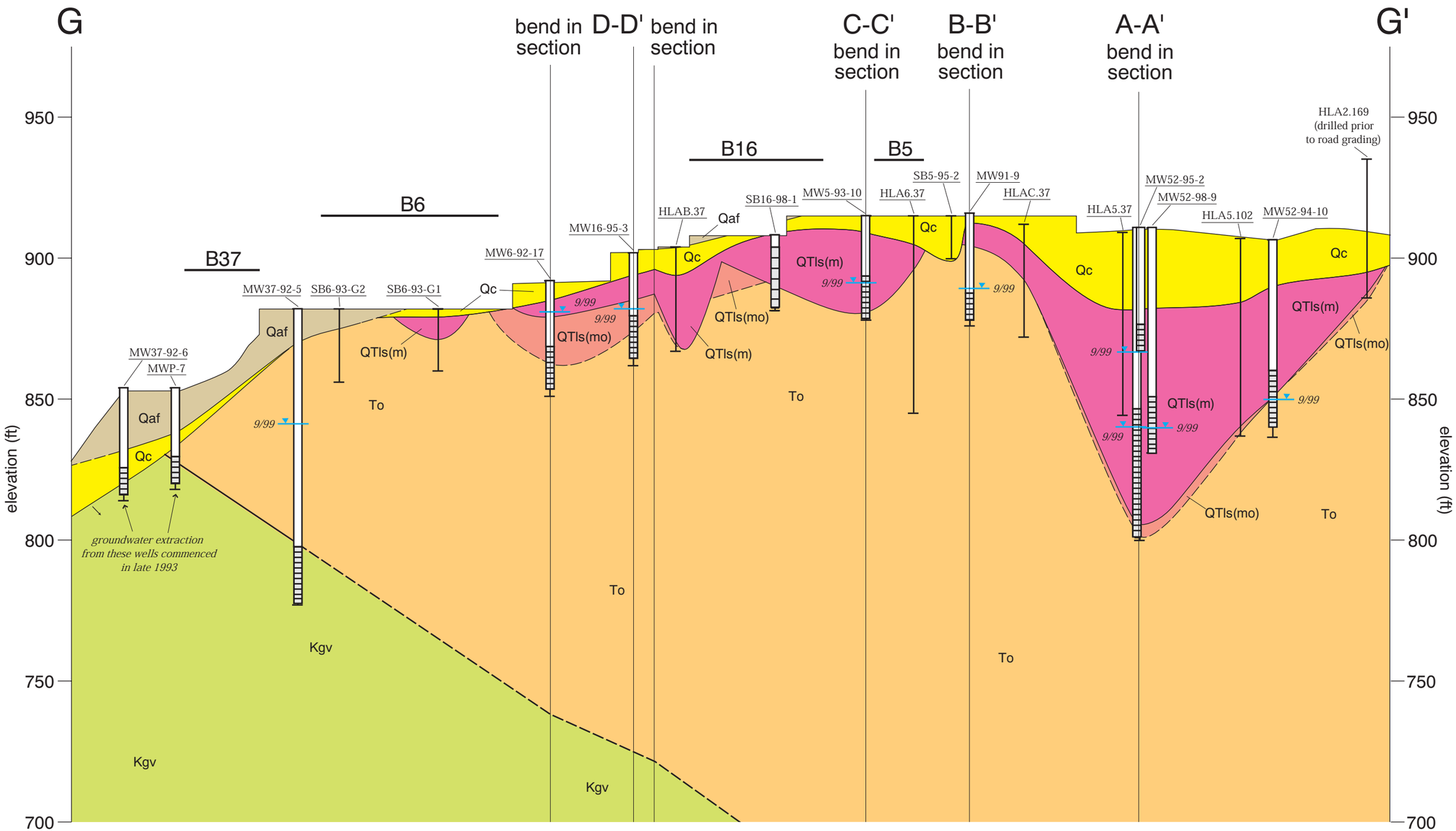
Well casing

Screened interval

revision: 9/27/2000

Figure B2.3-7. Old Town Area Cross Section F-F'.

B2.3-7 ot sec f.ai
09/00



HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 — approximate horizontal location of buildings on or near section

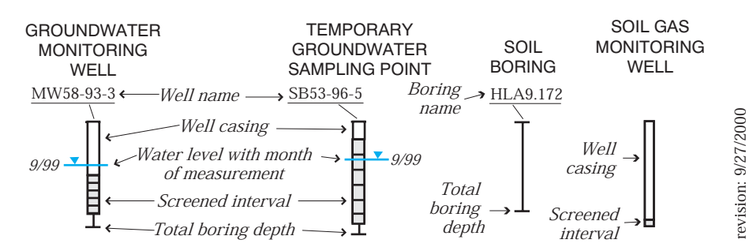
tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Contact — dashed where approximately located

Fault — dashed where approximately located; queried where inferred

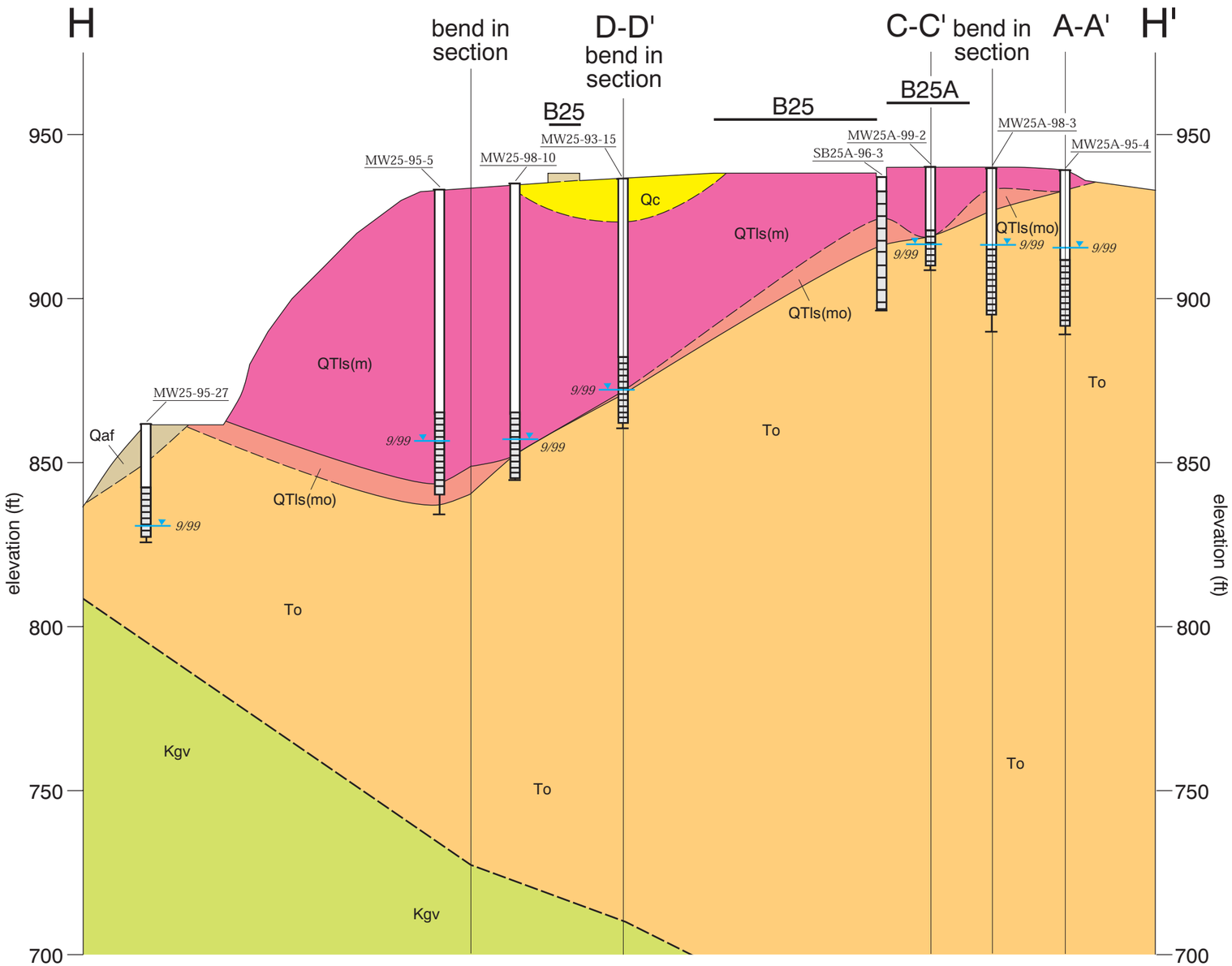
generalized apparent dip



revision: 9/27/2000

Figure B2.3-8. Old Town Area Cross Section G-G'.

B2.3-8 ot sec g.ai
09/00



HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 approximate horizontal location of buildings on or near section

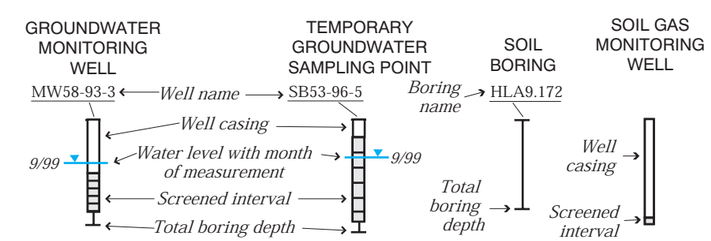
tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Contact
dashed where approximately located

Fault
dashed where approximately located; queried where inferred

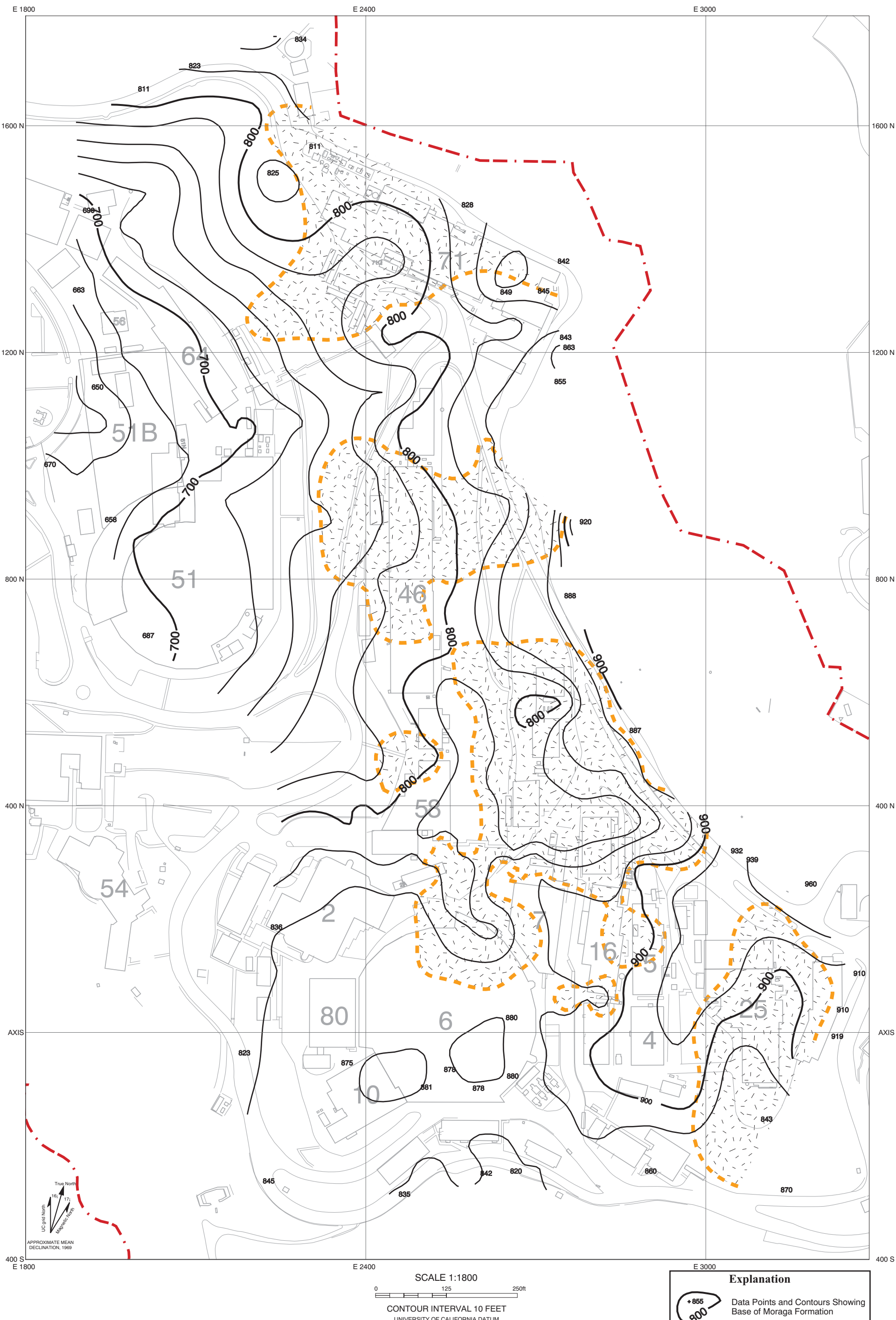
generalized apparent dip



revision: 9/27/2000

Figure B2.3-9. Old Town Area Cross Section H-H'.

B2.3-9 ot sec h.ai
09/00



SCALE 1:1800

0 125 250ft

CONTOUR INTERVAL 10 FEET

UNIVERSITY OF CALIFORNIA DATUM

Explanation

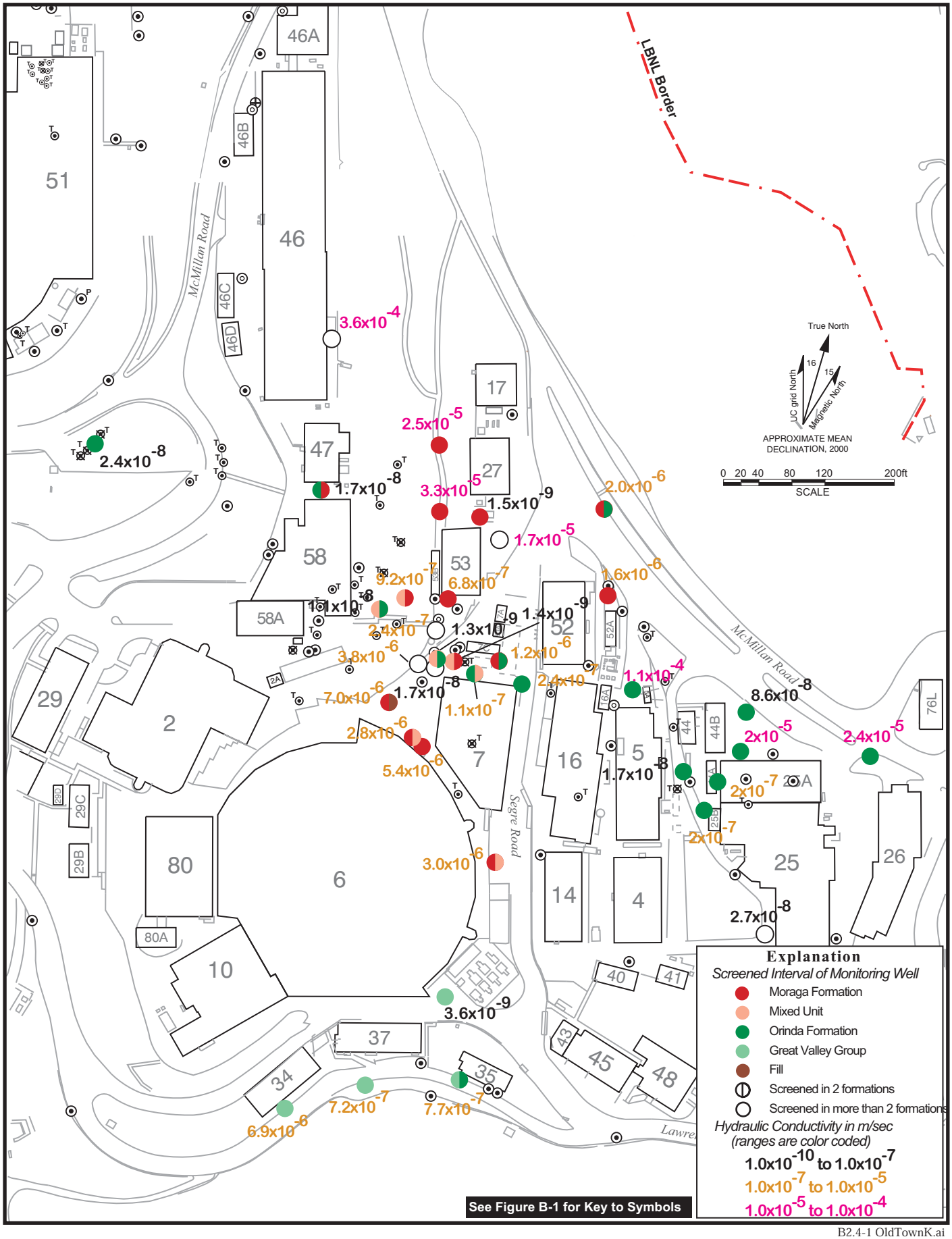
855 / 800 — Data Points and Contours Showing Base of Moraga Formation

Areas Underlain by >10' Thickness of Moraga Formation Rocks

Boundary of Lawrence Berkeley National Laboratory

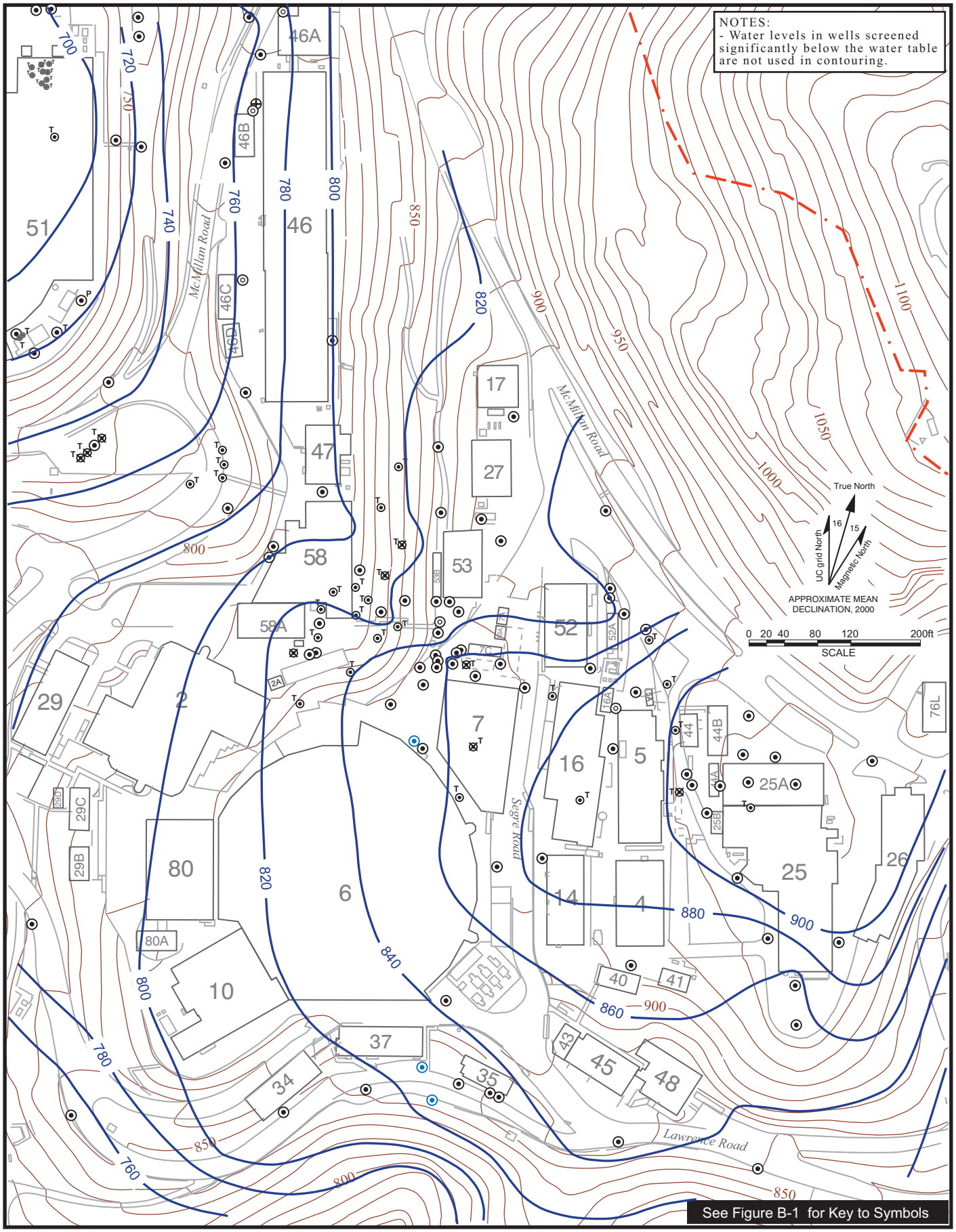
Figure B2.3-10. Structure Contour Map of the Base of the Moraga Formation Showing the Location of Thick Sections of the Moraga Formation.

B2.3-10 structure.ai
09/00



B2.4-1 OldTownK.ai
09/00

Figure B2.4-1. Old Town Area Well Locations, Showing Hydraulic Conductivity Estimates from Slug Tests and Pumping Tests.



OldTown.ai
09/00

Figure B2.4-2. Water Level Elevation Contour Map, Old Town Area, Fourth Quarter Fiscal Year 1999.

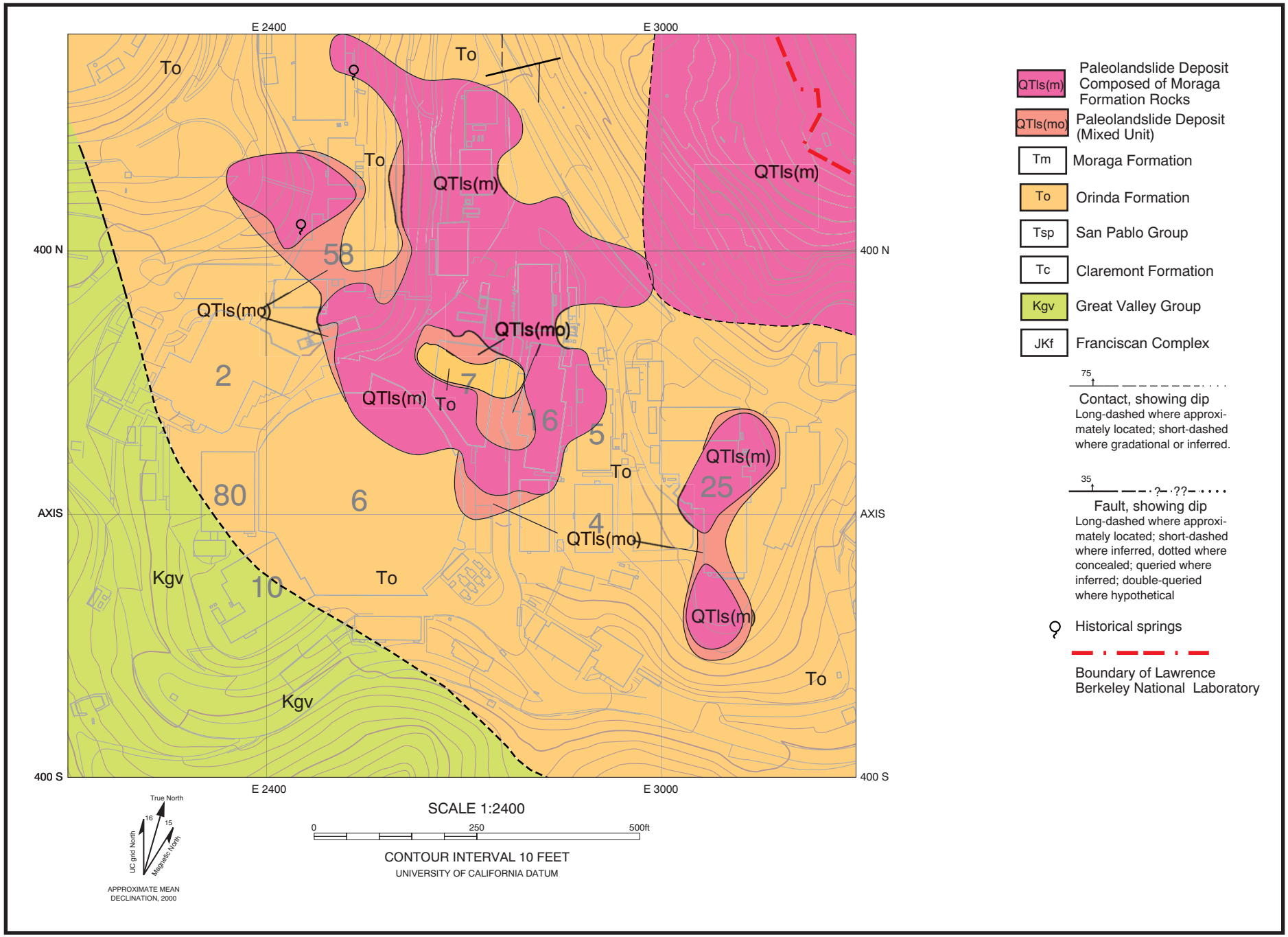


Figure B2.4-3. Water Table Geology in the Old Town Area.

B2.4-3.ai
09/00

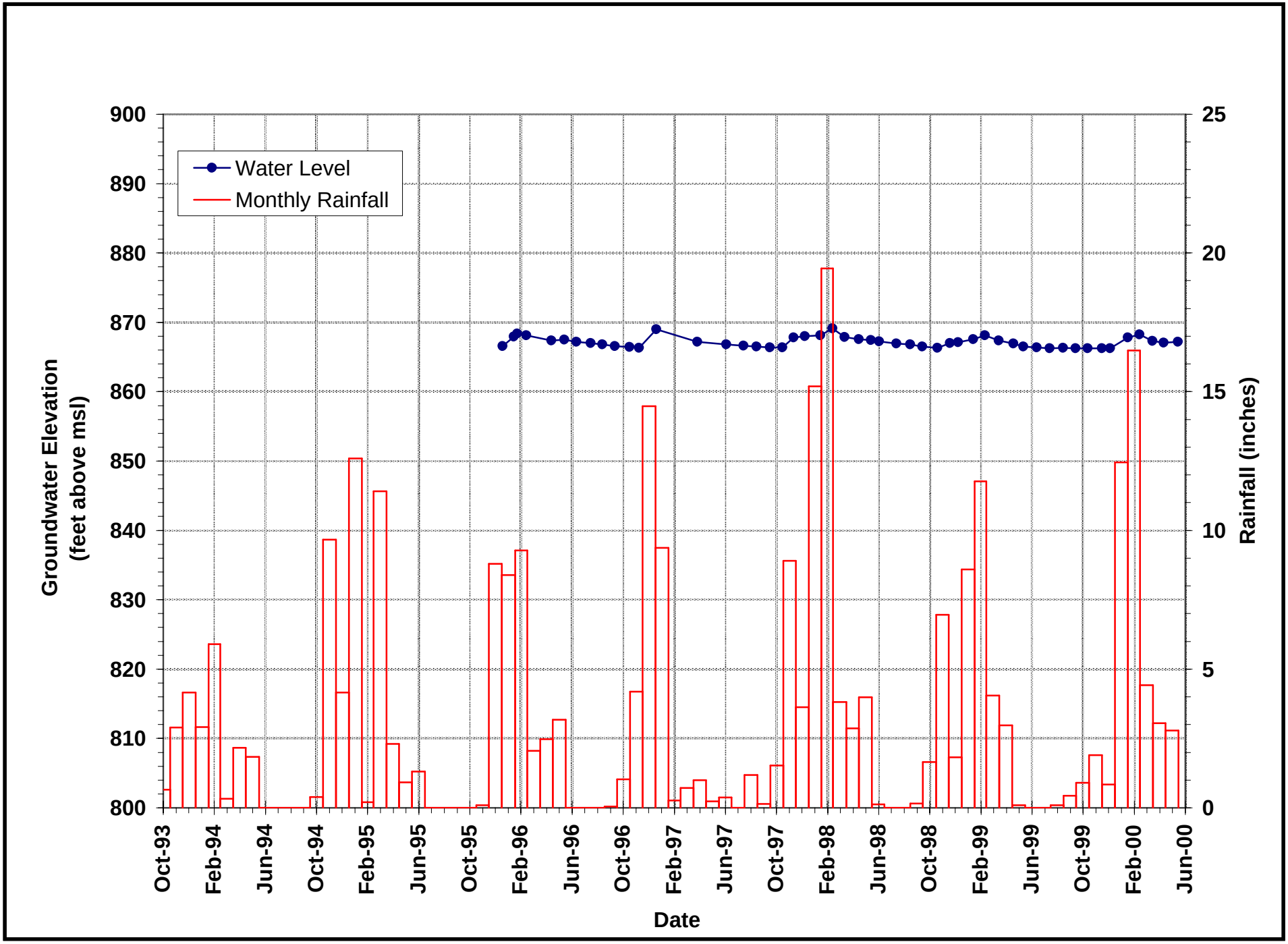


Figure B2.4-4. Hydrograph of Well 52-95-2A.

Hydrographs.xls
09/00

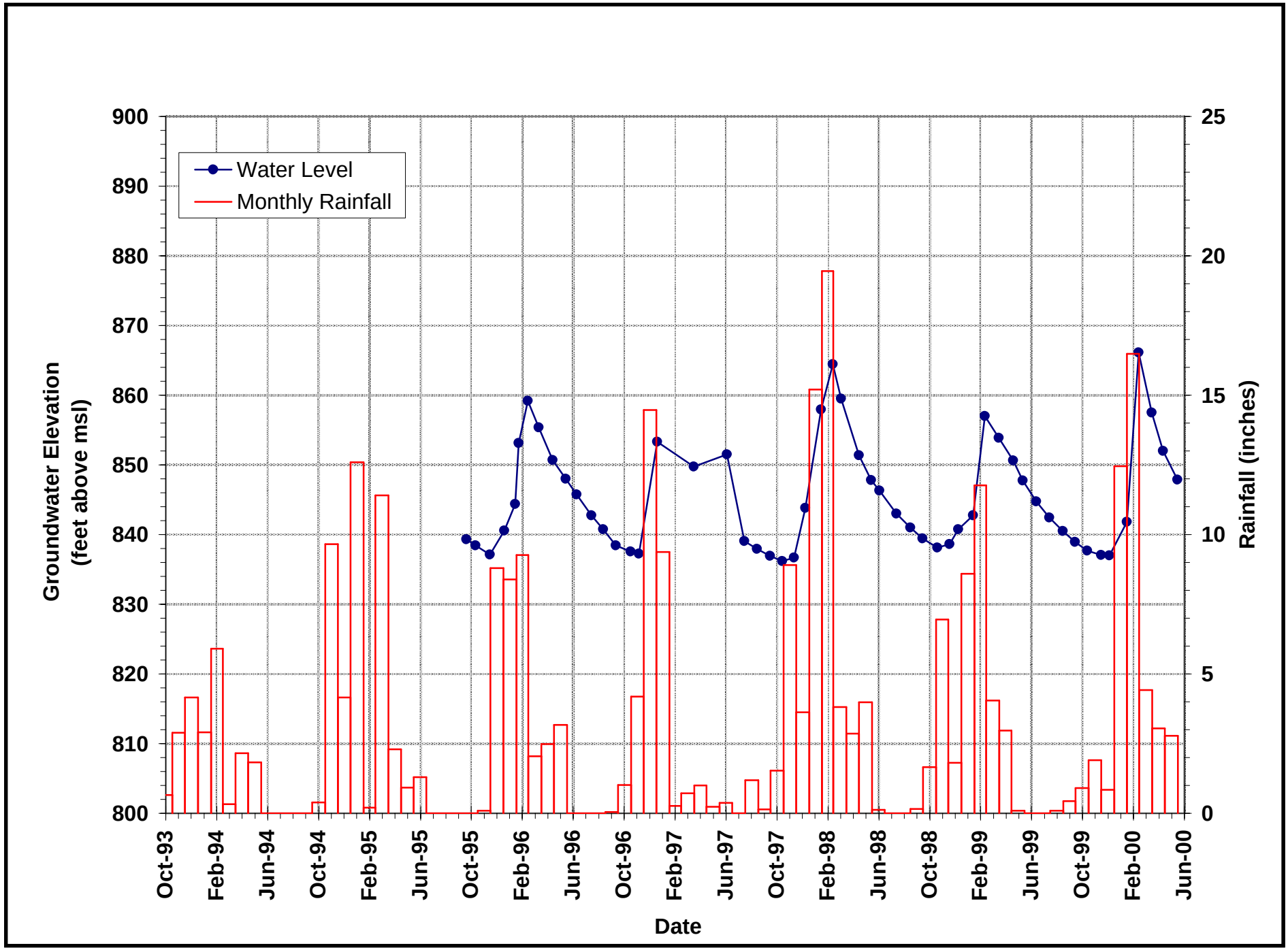


Figure B2.4-5. Hydrograph of Well 52-95-2B.

Hydrographs.xls
09/00

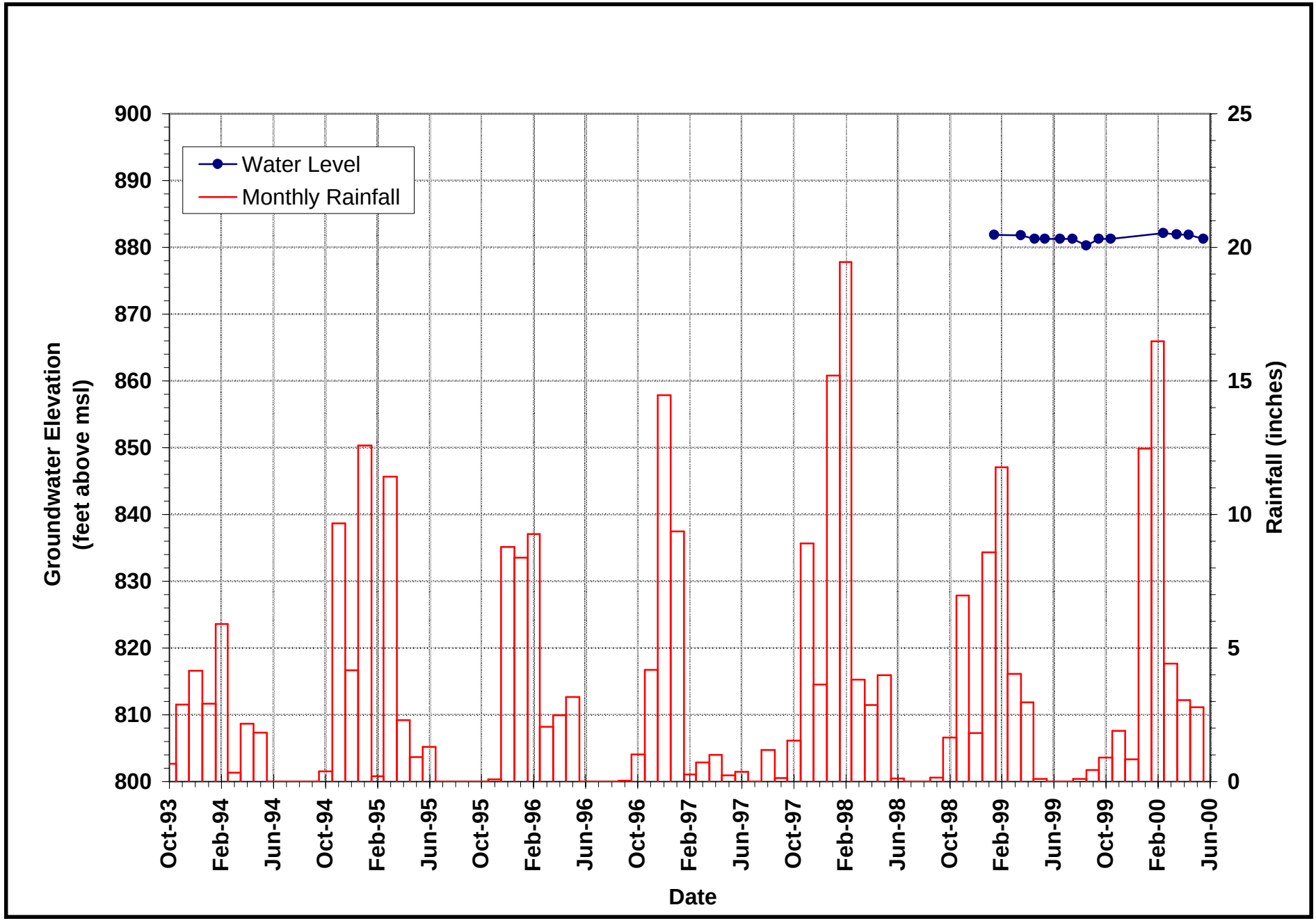


Figure B2.4-6. Hydrograph of Well 52A-98-8A.

Hydrographs.xls
09/00

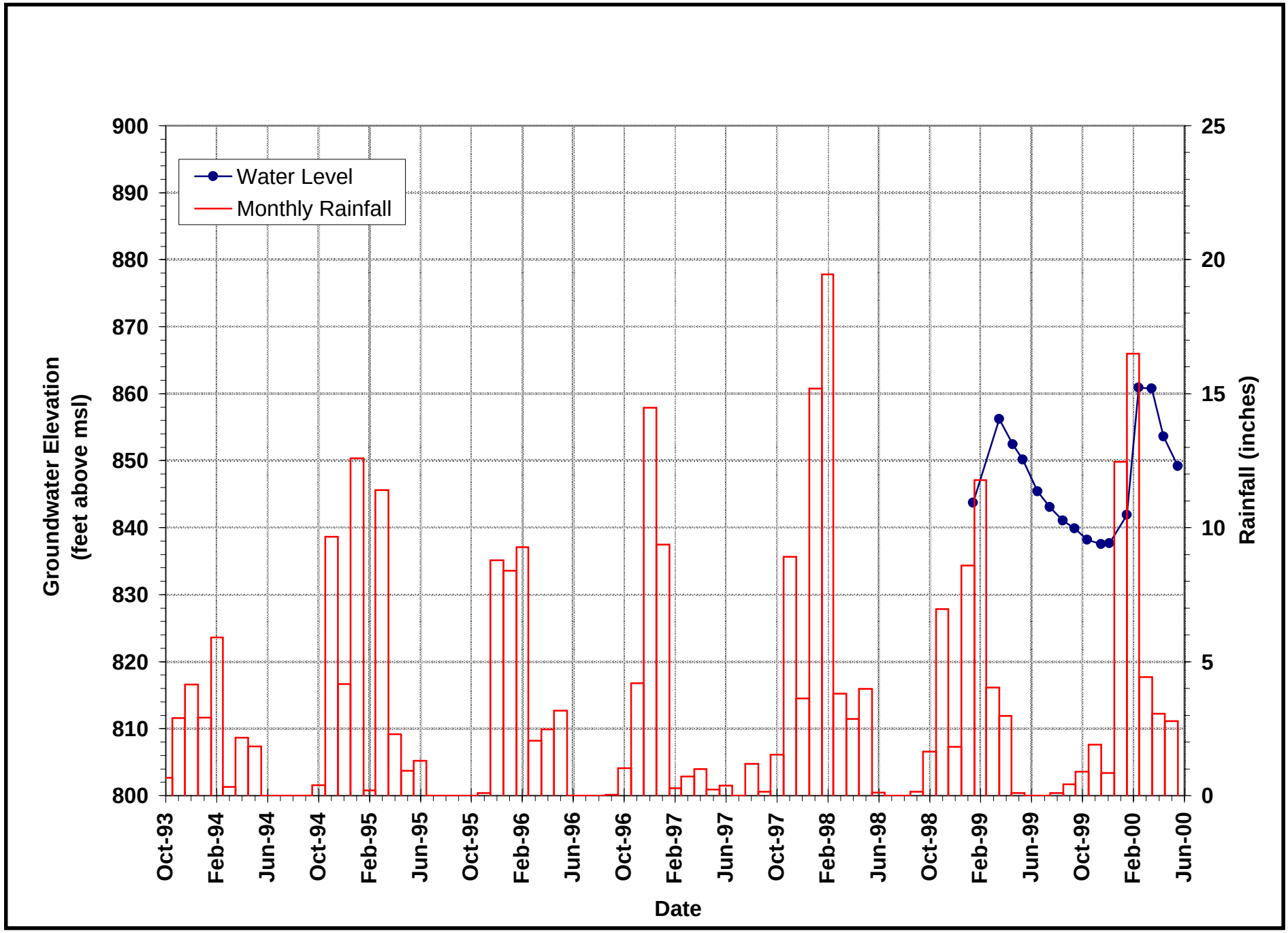


Figure B2.4-7. Hydrograph of Well 52A-98-8B.

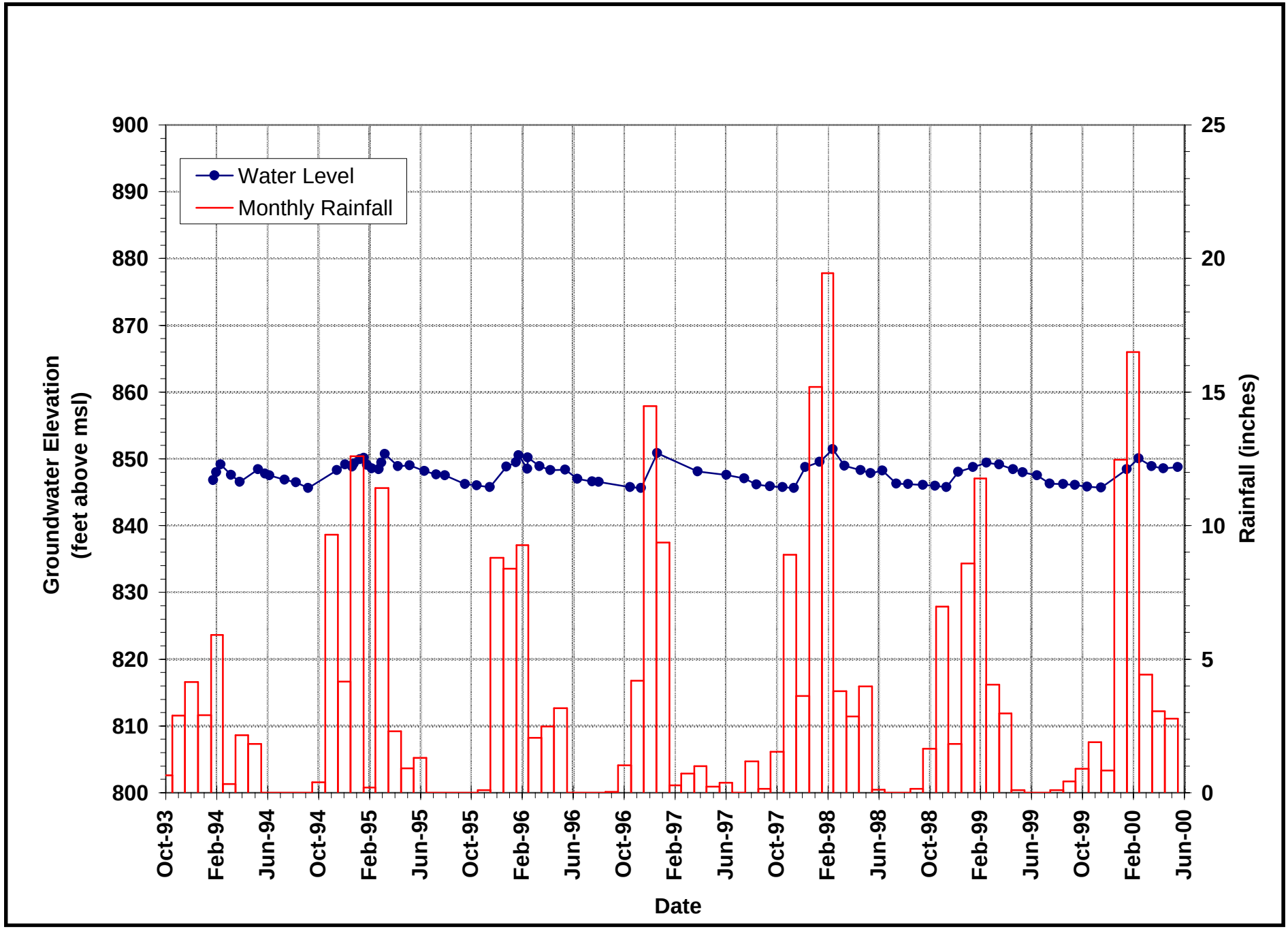


Figure B2.4-8. Hydrograph of Well 53-93-16-42'.

Hydrographs.xls
09/00

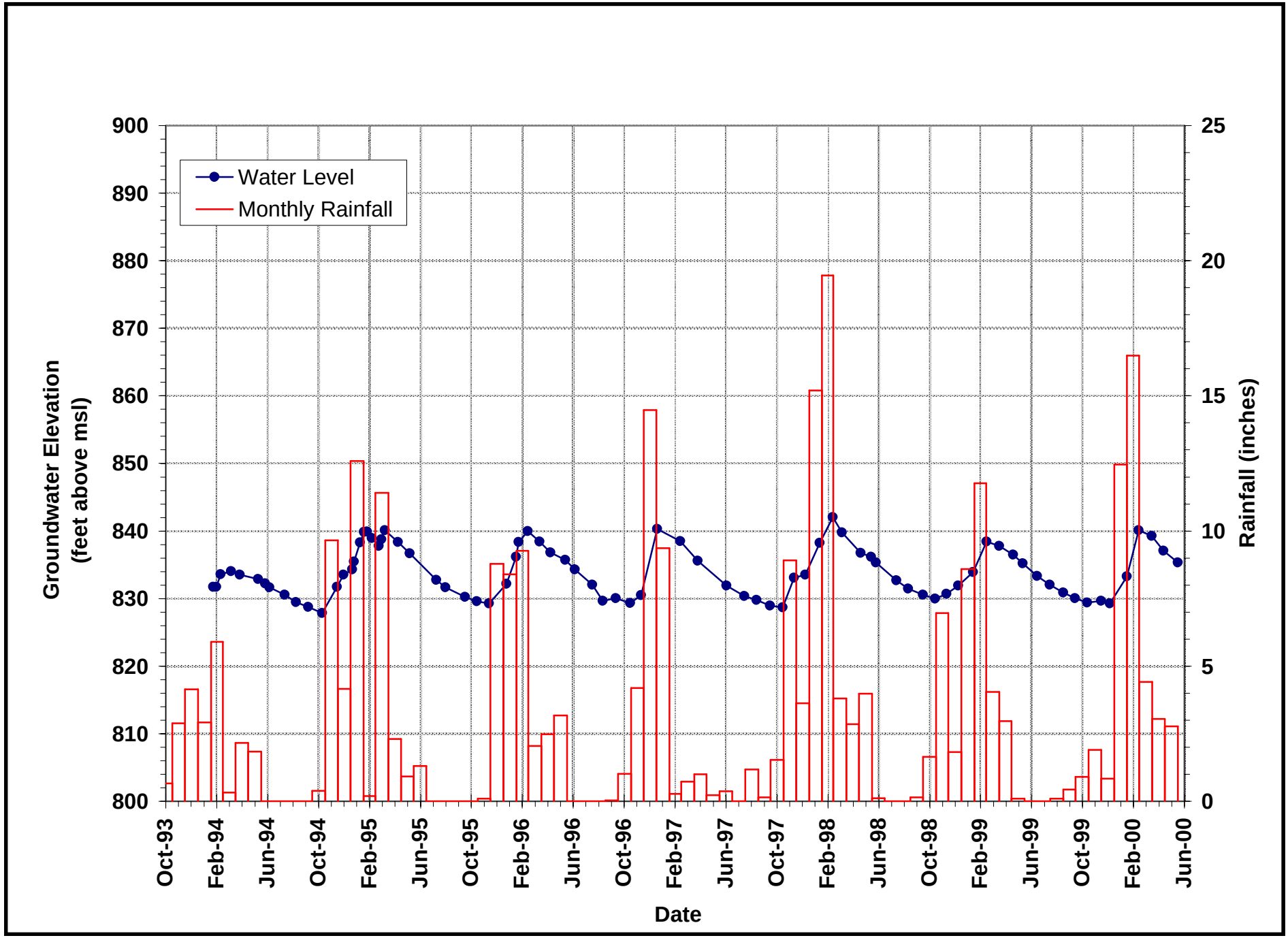


Figure B2.4-9. Hydrograph of Well 53-93-16-69'.

Hydrographs.xls
09/00

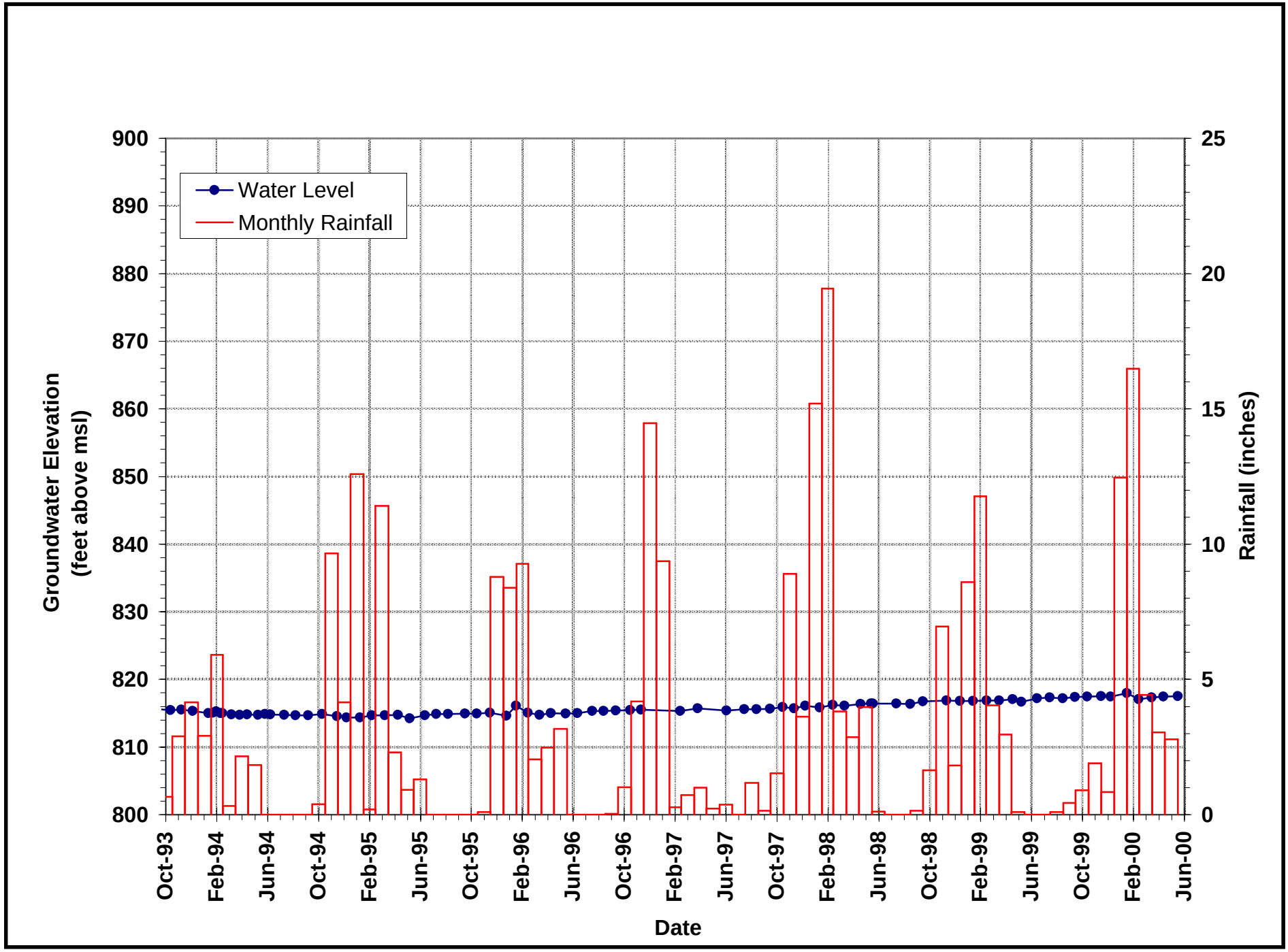


Figure B2.4-10. Hydrograph of Well 53-92-21-167'.

Hydrographs.xls
09/00

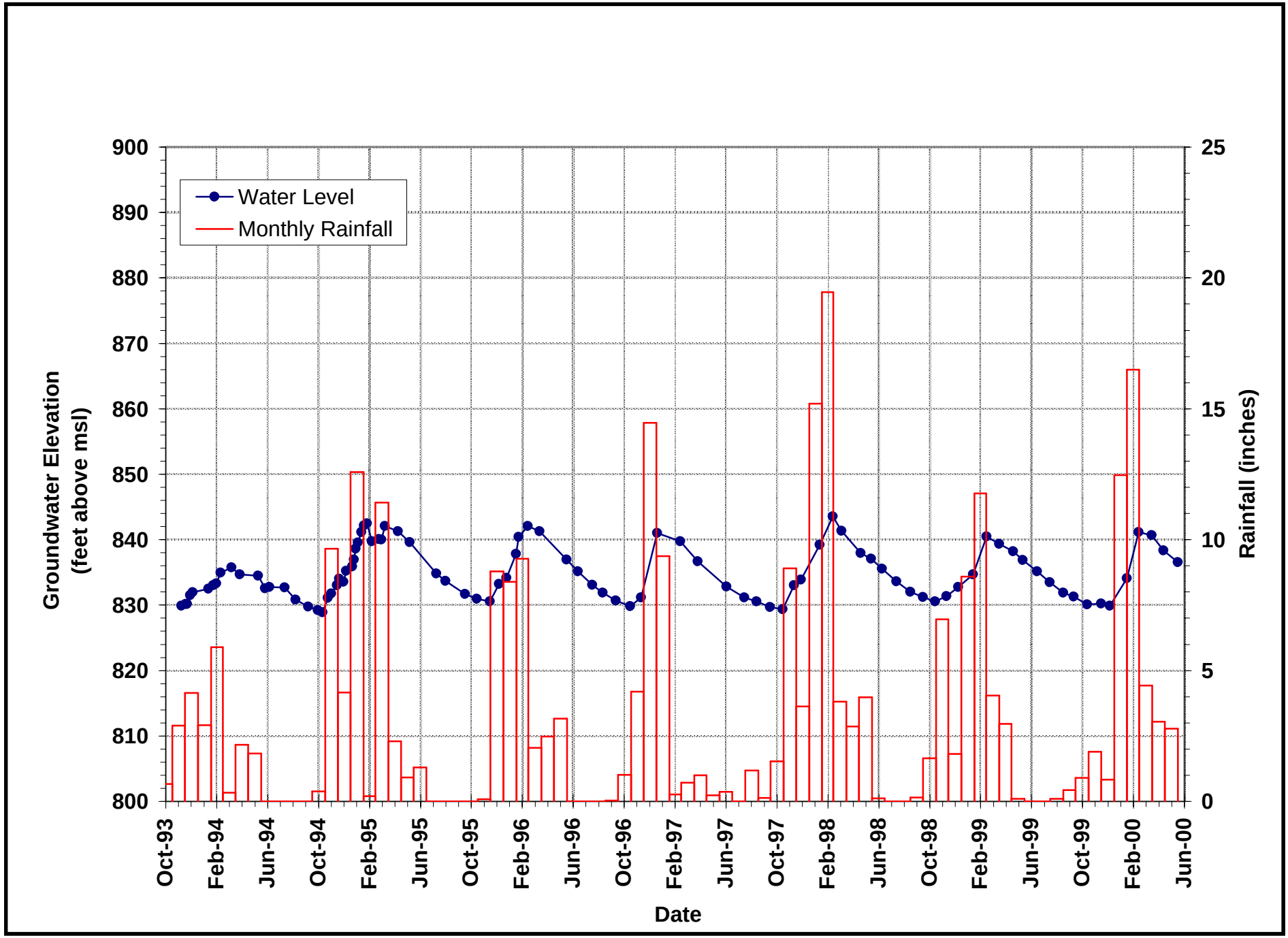


Figure B2.4-11. Hydrograph of Well 53-96-1 (91-7).

Hydrographs.xls
09/00

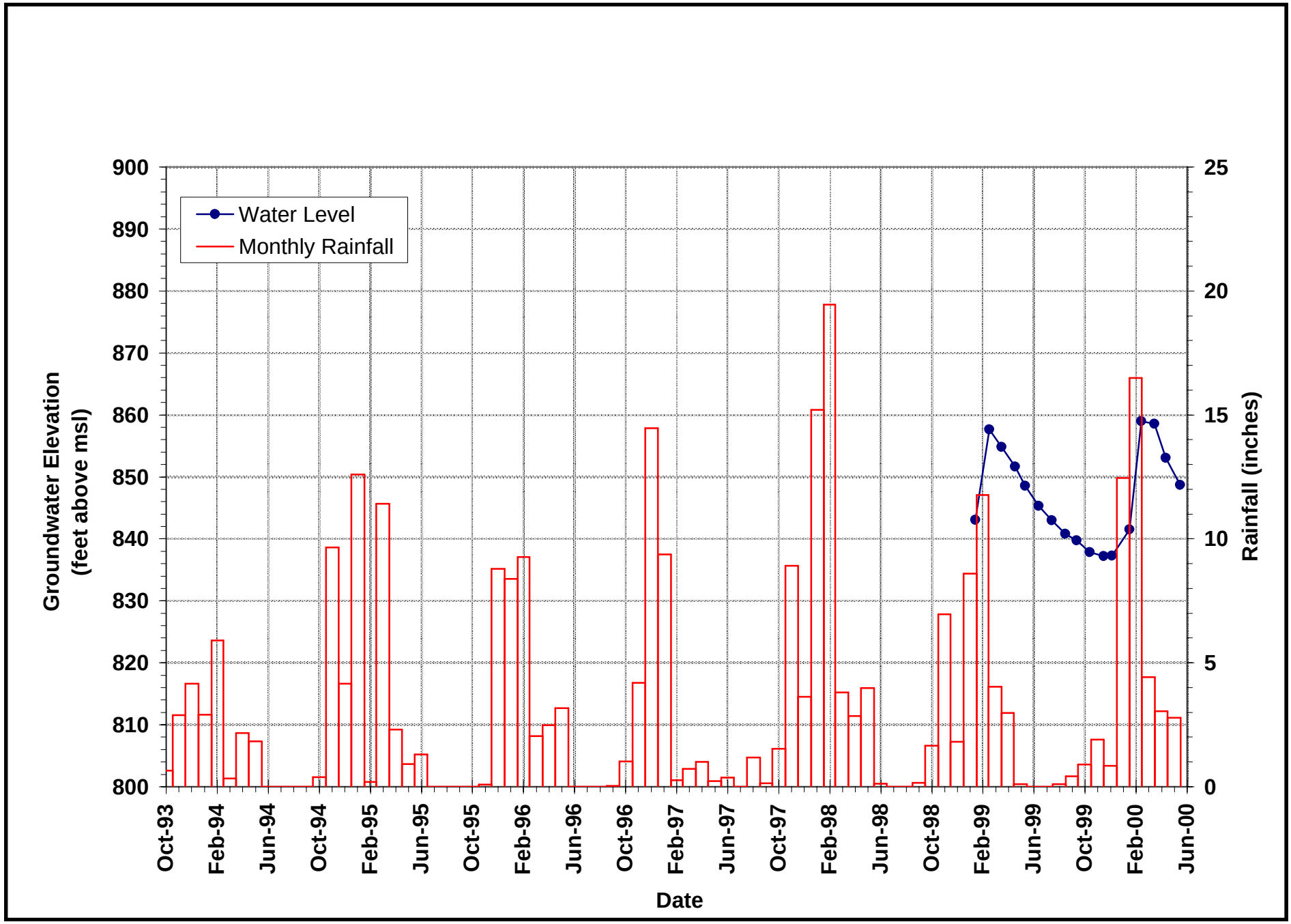


Figure B2.4-12. Hydrograph of Well 52-98-9.

Hydrographs.xls
09/00

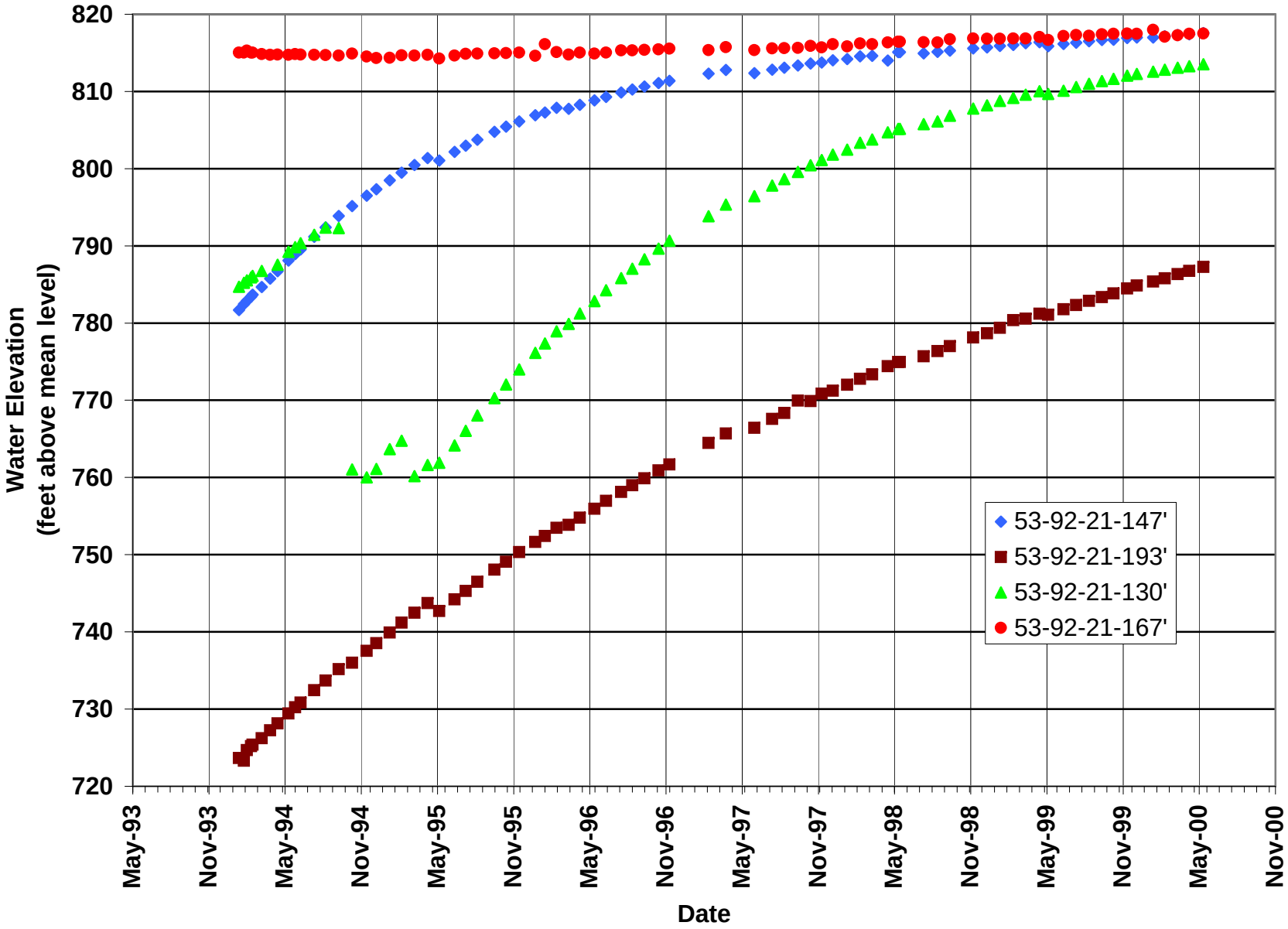
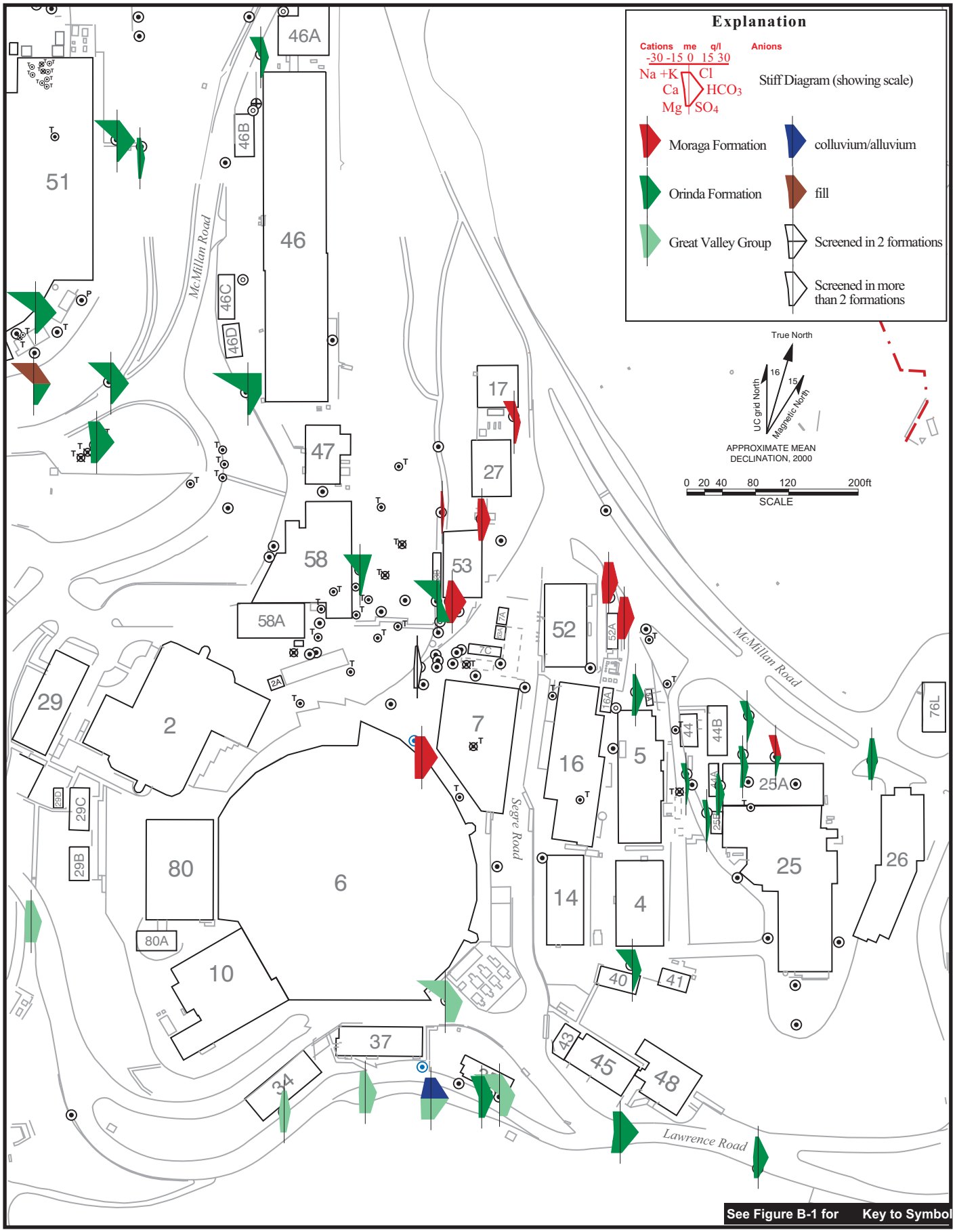


Figure B2.4-13. Hydrographs of MW53-92-21 Well Cluster.

53-92-21(fig b2.4-13).xls
09/00



B2.4-14 OldTownStiff.ai
09/00

Figure B2.4-14. Stiff Diagrams of Groundwater Geochemical Parameters in Old Town Area.

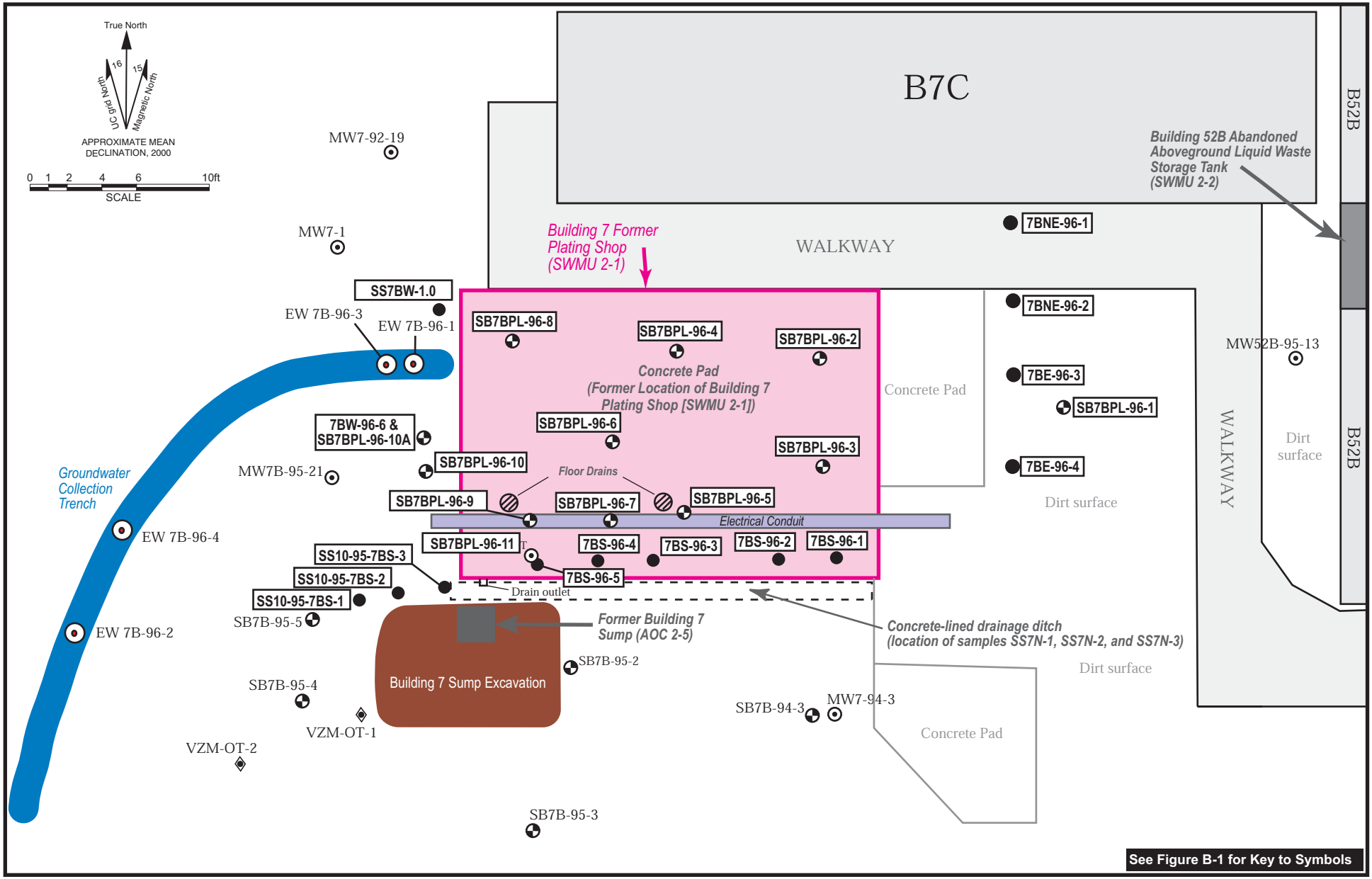


Figure B3.1-1. Site Map, Building 7 Former Plating Shop (SWMU 2-1) and Related Sampling Locations.

B3.1-1 SWMU2-1loc.ai
09/00

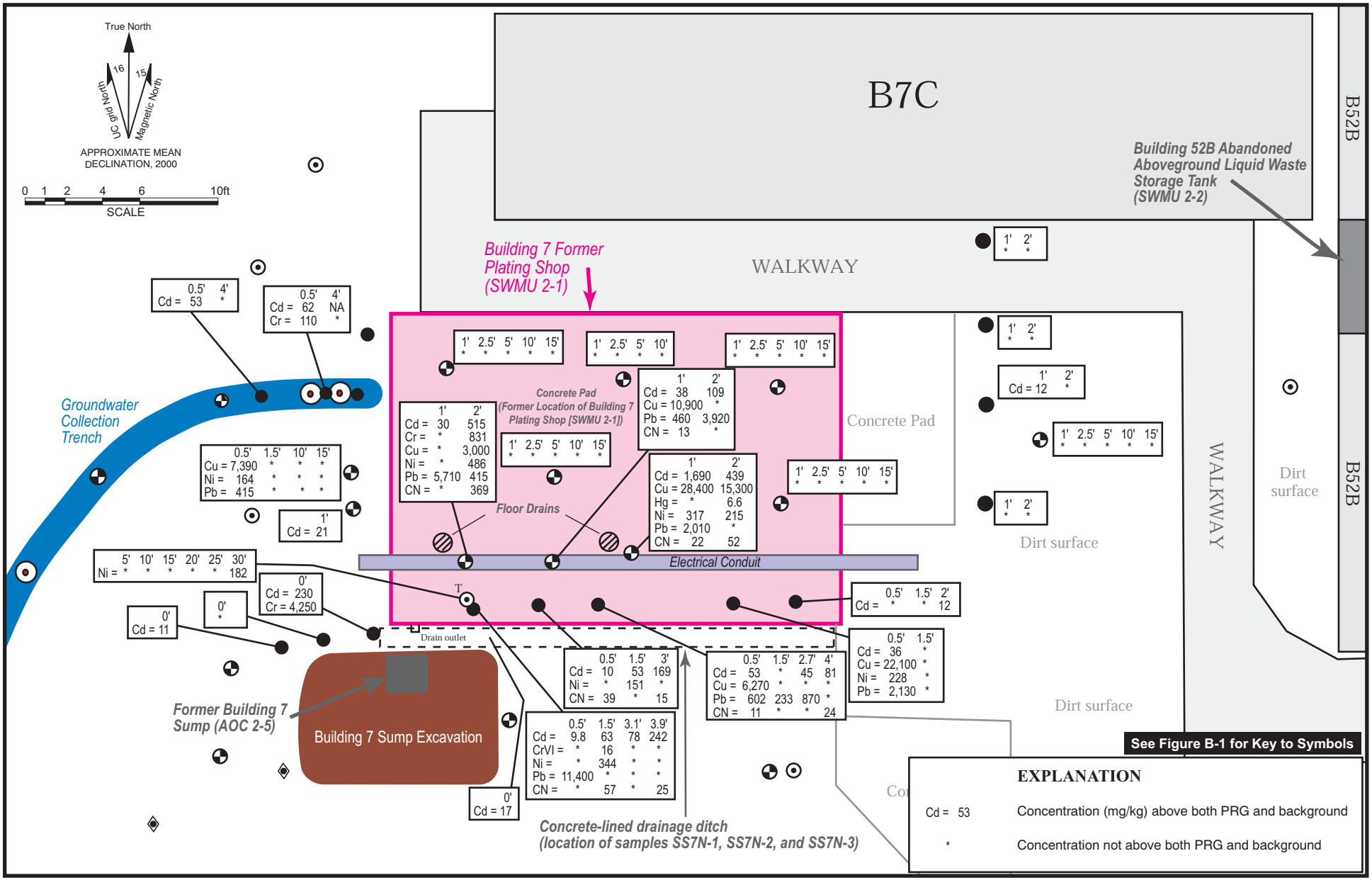


Figure B3.1-2. **Concentrations of Cyanide and Metals Detected Above Both PRGs for Residential Soil and Background, Building 7 Former Plating Shop (SWMU 2-1).**

B3.1-2 SWMU2-1metal.ai
09/00

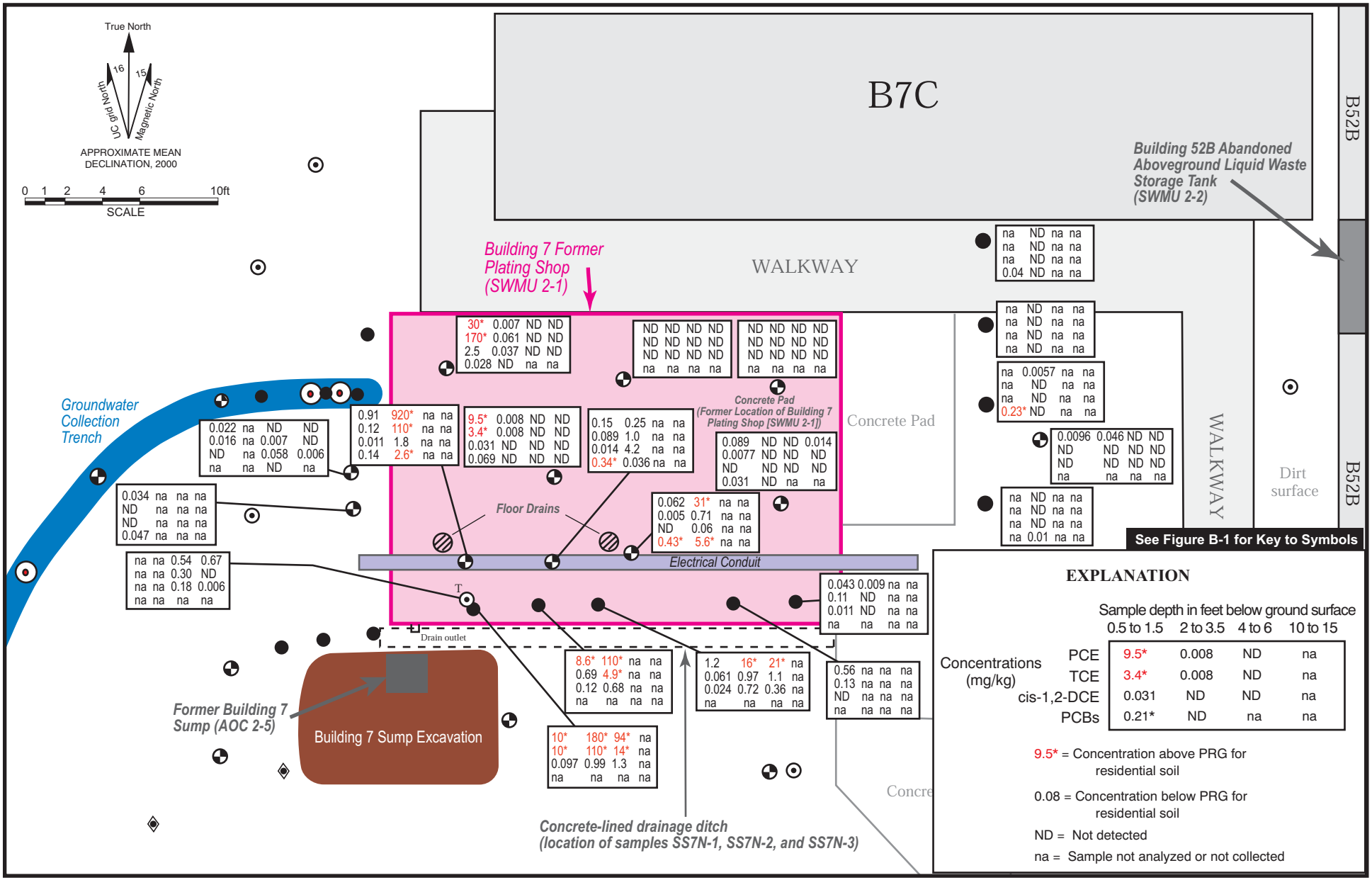


Figure B3.1-3. **Concentrations of TCE, PCE, cis-1,2-DCE, and PCBs Detected (mg/kg) from Surface to 15 feet bgs, Building 7 Former Plating Shop (SWMU 2-1).**

B3.1-3 SWMU2-1org.ai
09/00

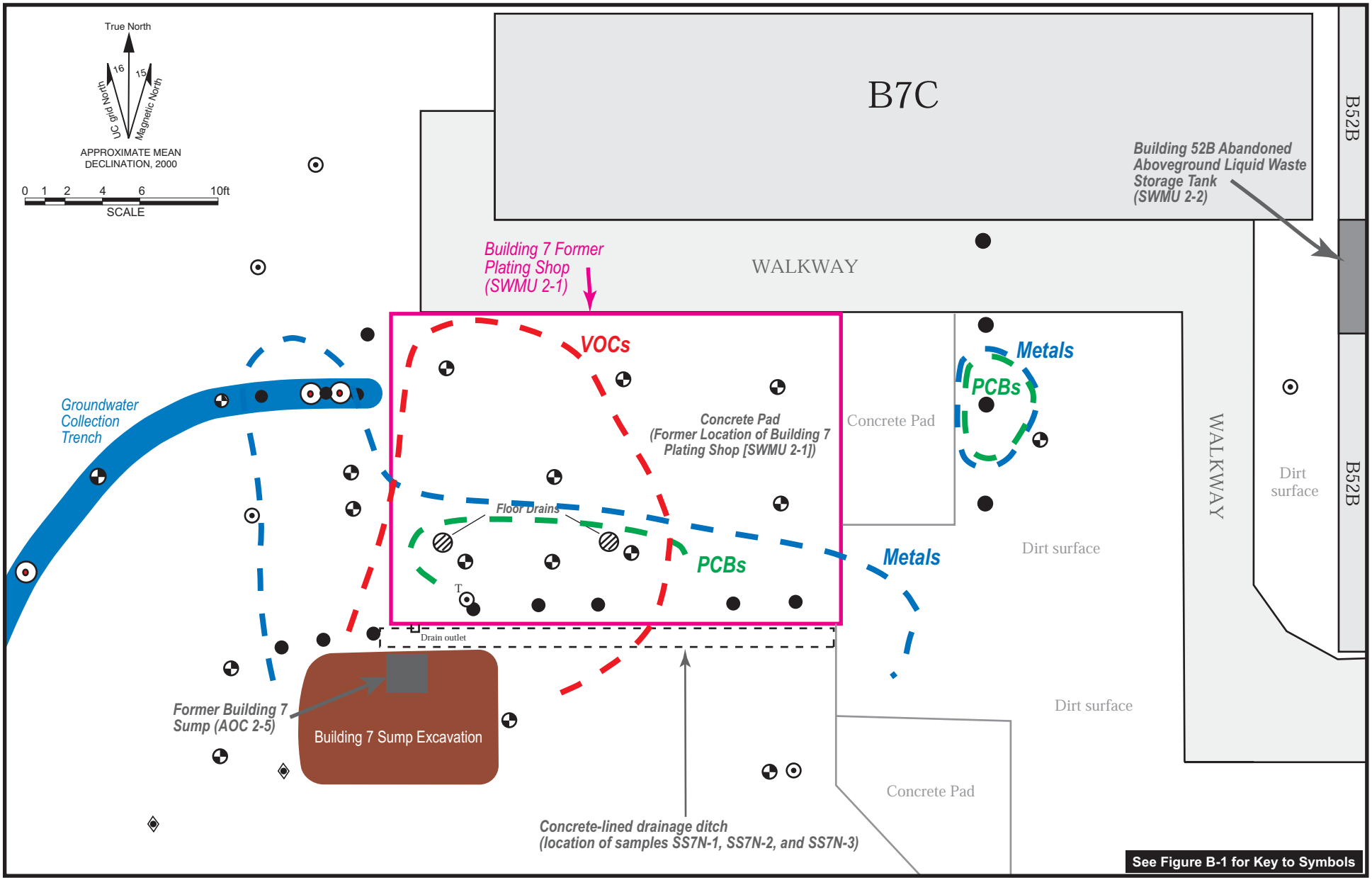


Figure B3.1-4. **Estimated Extent of Metals, PCBs, and VOCs at Concentrations Above Both Background and PRGs for Residential Soil Prior to Excavation, Building 7 Former Plating Shop (SWMU 2-1).**

B3.1-4 SWMU2-1prg.ai
09/00

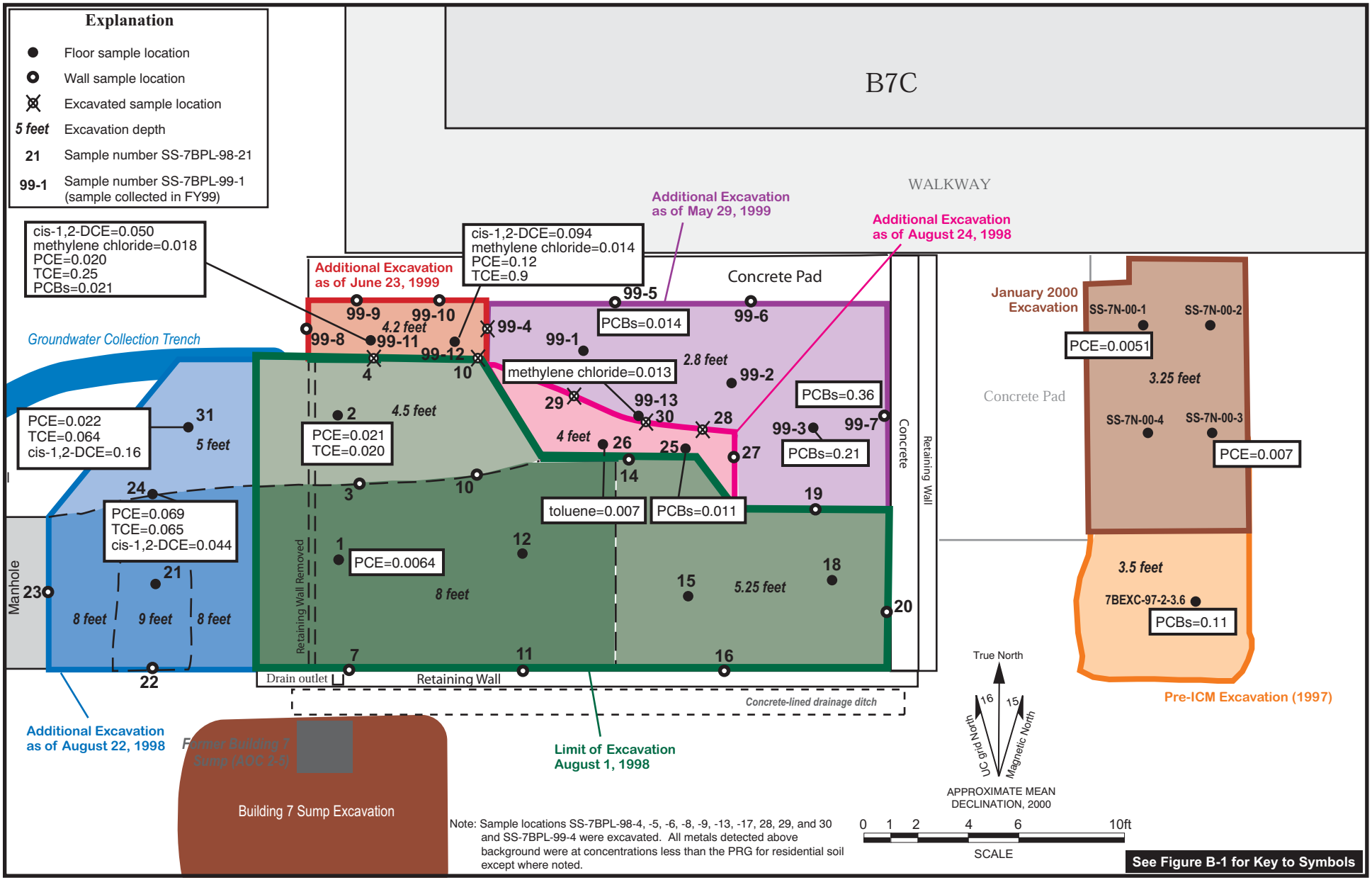


Figure B3.1-5. **Concentrations of Contaminants Detected (mg/kg) in Confirmatory Floor Samples, Building 7 Former Plating Shop (SWMU 2-1) Excavation (Plan View).**

B3.1-5.ai
09/00

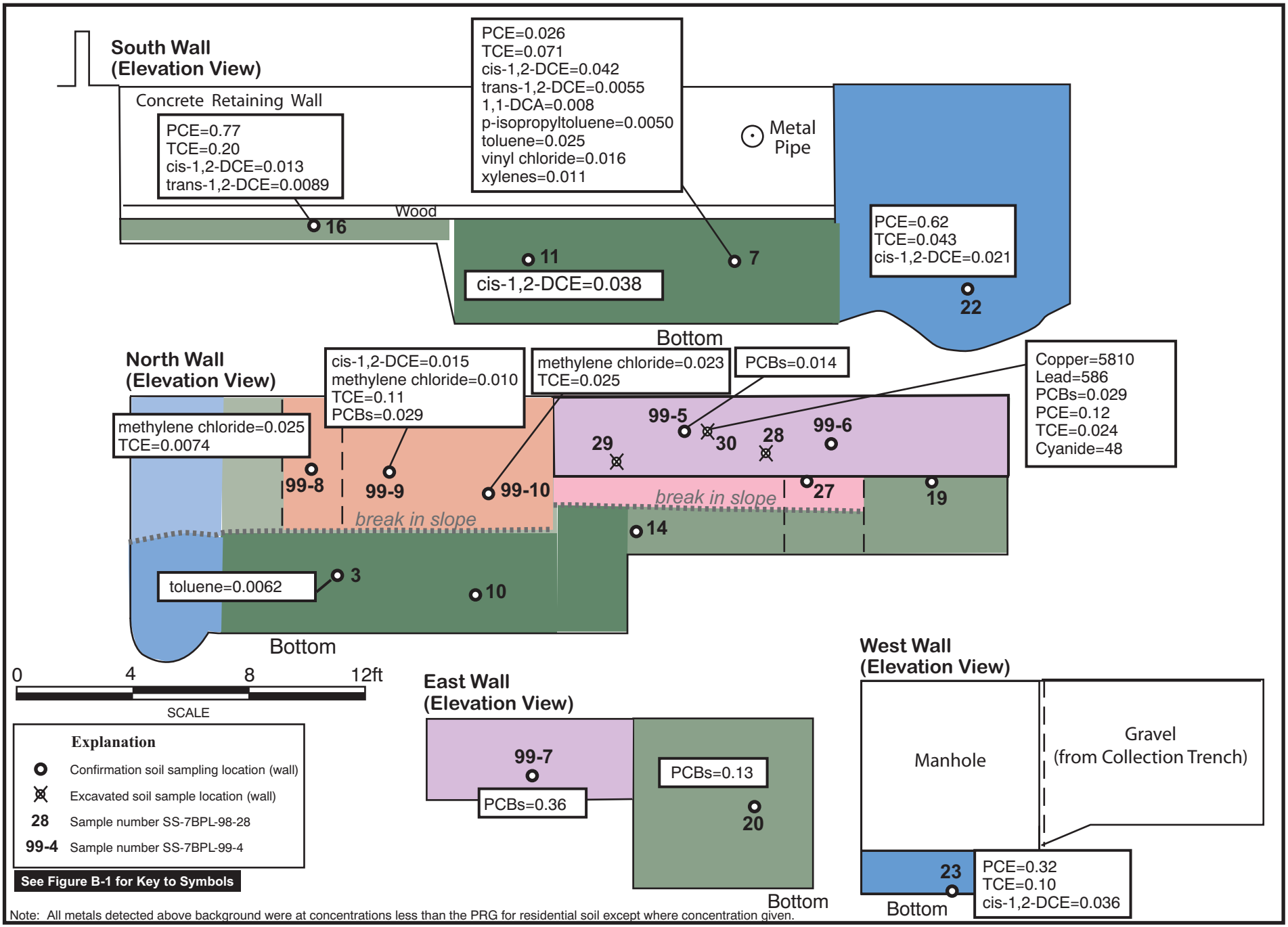
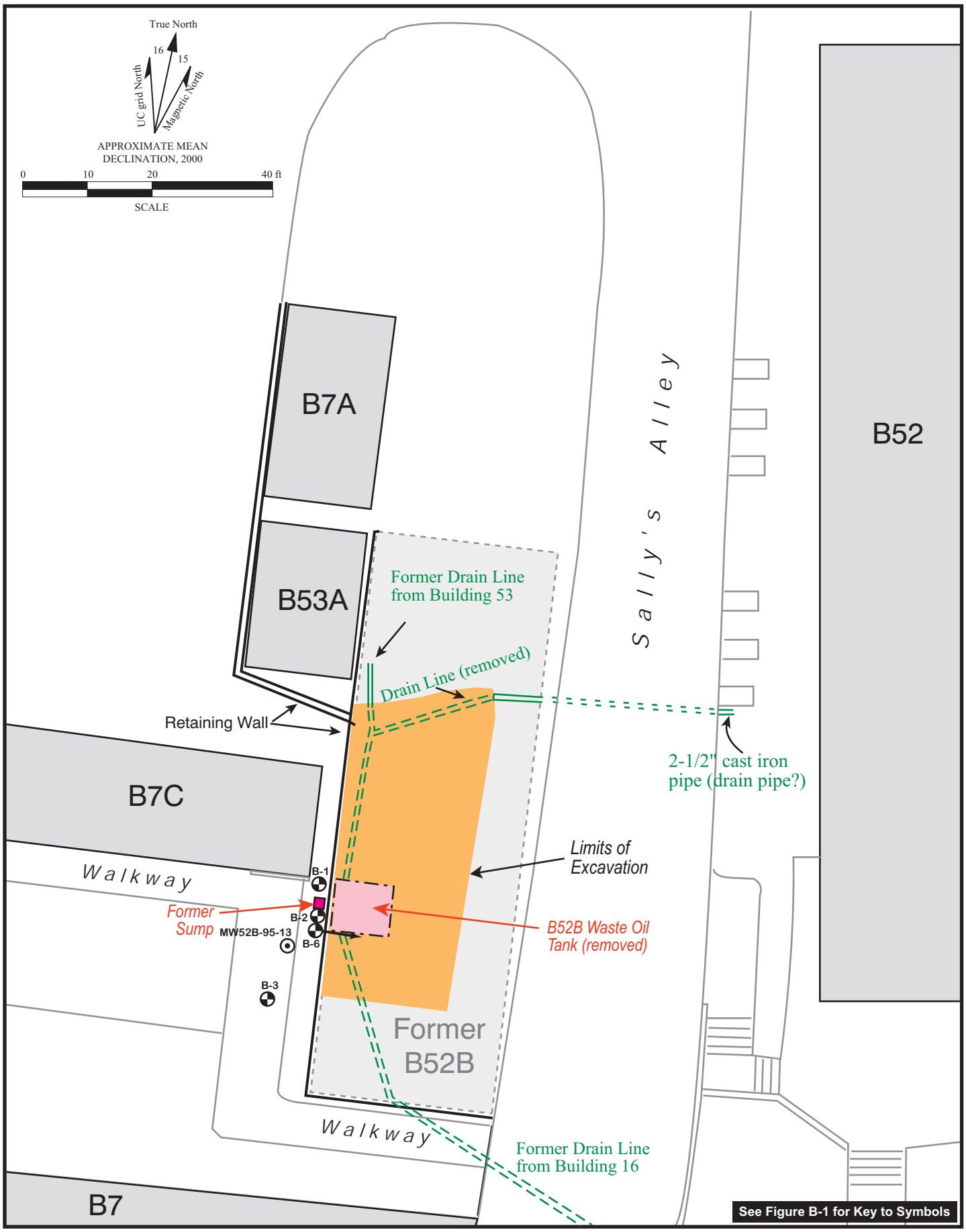


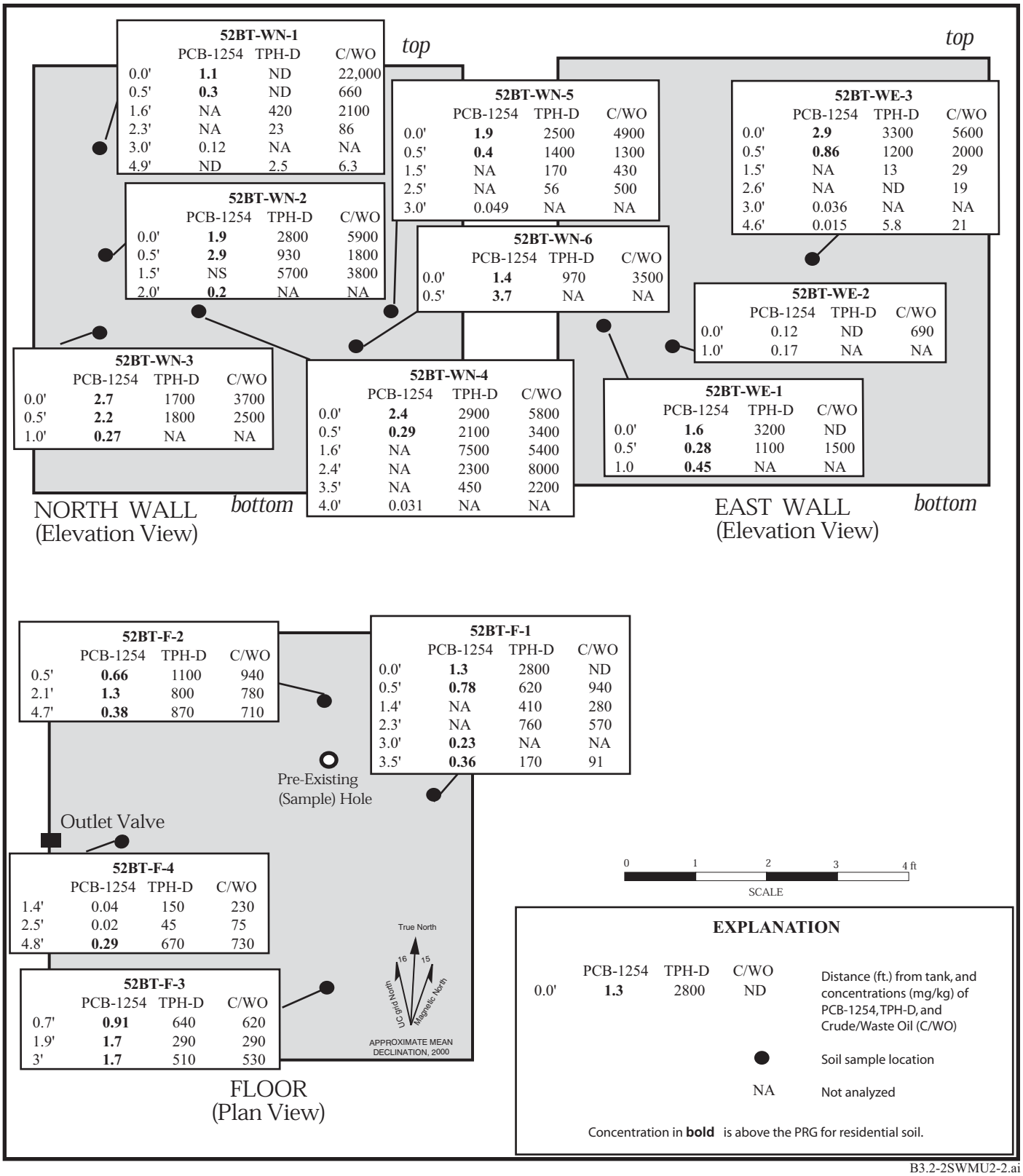
Figure B3.1-6. Concentrations of Contaminants Detected (mg/kg) in Confirmatory Wall Samples, Building 7 Former Plating Shop (SWMU 2-1) Excavation (Elevation Views).

B3.1-6.ai
09/00



B3.2-1SWMU2-2.ai
09/00

Figure B3.2-1. Location Map, Former Building 52B Abandoned Liquid Waste Oil Aboveground Storage Tank (SWMU 2-2).



52BT-WN-1

	PCB-1254	TPH-D	C/WO
0.0'	**1.1**	ND	22,000
0.5'	**0.3**	ND	660
1.6'	NA	420	2100
2.3'	NA	23	86
3.0'	0.12	NA	NA
4.9'	ND	2.5	6.3

52BT-WN-2

	PCB-1254	TPH-D	C/WO
0.0'	**1.9**	2800	5900
0.5'	**2.9**	930	1800
1.5'	NS	5700	3800
2.0'	**0.2**	NA	NA

52BT-WN-3

	PCB-1254	TPH-D	C/WO
0.0'	**2.7**	1700	3700
0.5'	**2.2**	1800	2500
1.0'	**0.27**	NA	NA

52BT-WN-4

	PCB-1254	TPH-D	C/WO
0.0'	**2.4**	2900	5800
0.5'	**0.29**	2100	3400
1.6'	NA	7500	5400
2.4'	NA	2300	8000
3.5'	NA	450	2200
4.0'	0.031	NA	NA

52BT-WN-5

	PCB-1254	TPH-D	C/WO
0.0'	**1.9**	2500	4900
0.5'	**0.4**	1400	1300
1.5'	NA	170	430
2.5'	NA	56	500
3.0'	0.049	NA	NA

52BT-WN-6

	PCB-1254	TPH-D	C/WO
0.0'	**1.4**	970	3500
0.5'	**3.7**	NA	NA

52BT-WE-3

	PCB-1254	TPH-D	C/WO
0.0'	**2.9**	3300	5600
0.5'	**0.86**	1200	2000
1.5'	NA	13	29
2.6'	NA	ND	19
3.0'	0.036	NA	NA
4.6'	0.015	5.8	21

52BT-WE-2

	PCB-1254	TPH-D	C/WO
0.0'	0.12	ND	690
1.0'	0.17	NA	NA

52BT-WE-1

	PCB-1254	TPH-D	C/WO
0.0'	**1.6**	3200	ND
0.5'	**0.28**	1100	1500
1.0	**0.45**	NA	NA

52BT-F-2

	PCB-1254	TPH-D	C/WO
0.5'	**0.66**	1100	940
2.1'	**1.3**	800	780
4.7'	**0.38**	870	710

52BT-F-1

	PCB-1254	TPH-D	C/WO
0.0'	**1.3**	2800	ND
0.5'	**0.78**	620	940
1.4'	NA	410	280
2.3'	NA	760	570
3.0'	**0.23**	NA	NA
3.5'	**0.36**	170	91

52BT-F-4

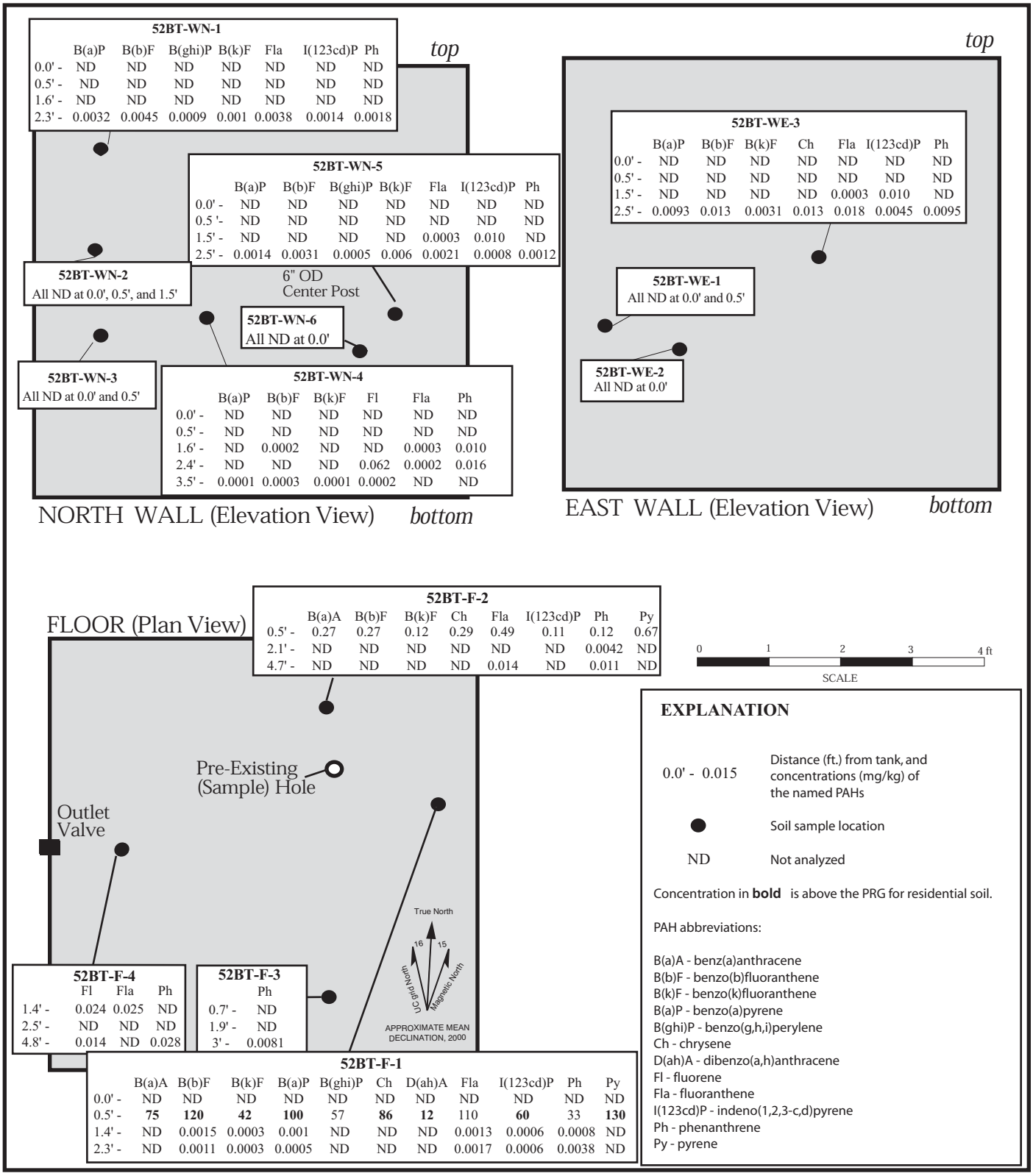
	PCB-1254	TPH-D	C/WO
1.4'	0.04	150	230
2.5'	0.02	45	75
4.8'	**0.29**	670	730

52BT-F-3

	PCB-1254	TPH-D	C/WO
0.7'	**0.91**	640	620
1.9'	**1.7**	290	290
3'	**1.7**	510	530

B3.2-2SWMU2-2.ai
09/00

Figure B3.2-2. Sampling Locations and Concentrations of Fuels and PCBs Detected (mg/kg), Former Building 52B Abandoned Liquid Waste Oil Aboveground Storage Tank (SWMU 2-2).



B3.2-3SWMU2-2.ai
09/00

Figure B3.2-3. Sampling Locations and Concentrations of PAHs Detected (mg/kg), Former Building 52B Abandoned Liquid Waste Oil Aboveground Storage Tank (SWMU 2-2).

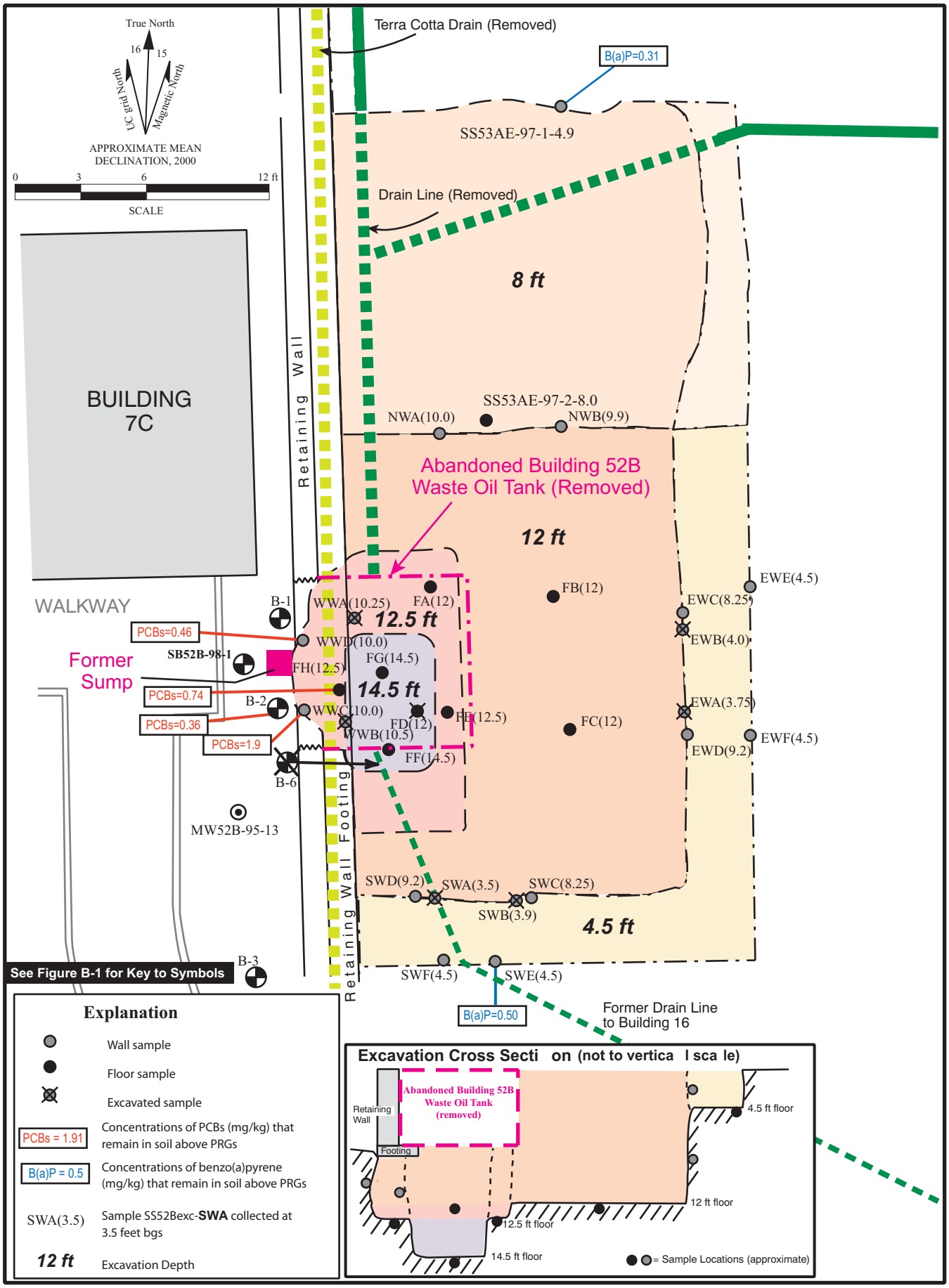


Figure B3.2-4. **Soil Sampling Locations, Extent of Excavations, and Contaminants Above PRGs, Former Building 52B Abandoned Liquid Waste Oil Aboveground Storage Tank (SWMU 2-2) (Excavated Samples Taken From Tank Wall and Floor Not Shown).**

B3.2-4SWMU2-2.ai
09/00

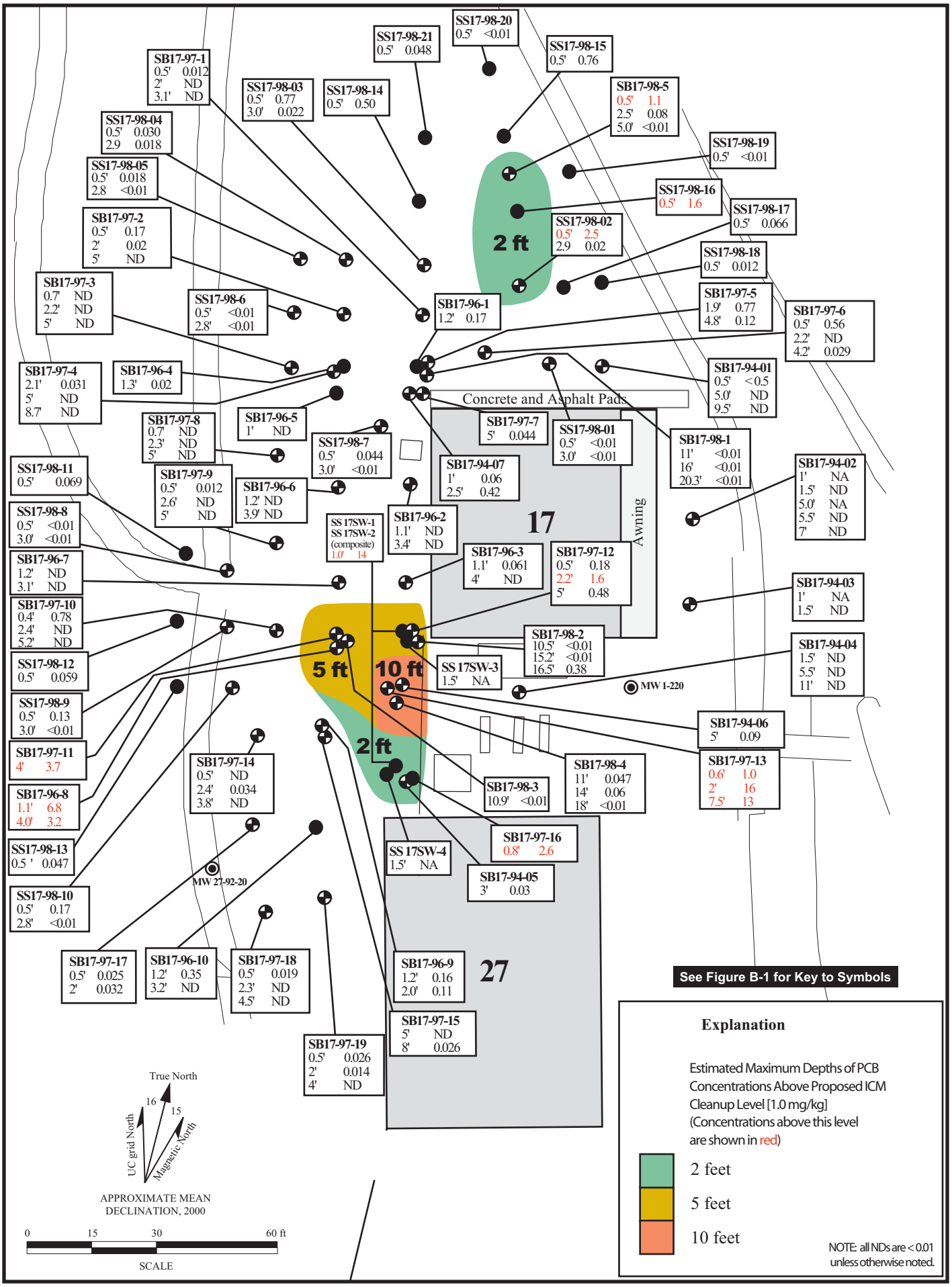
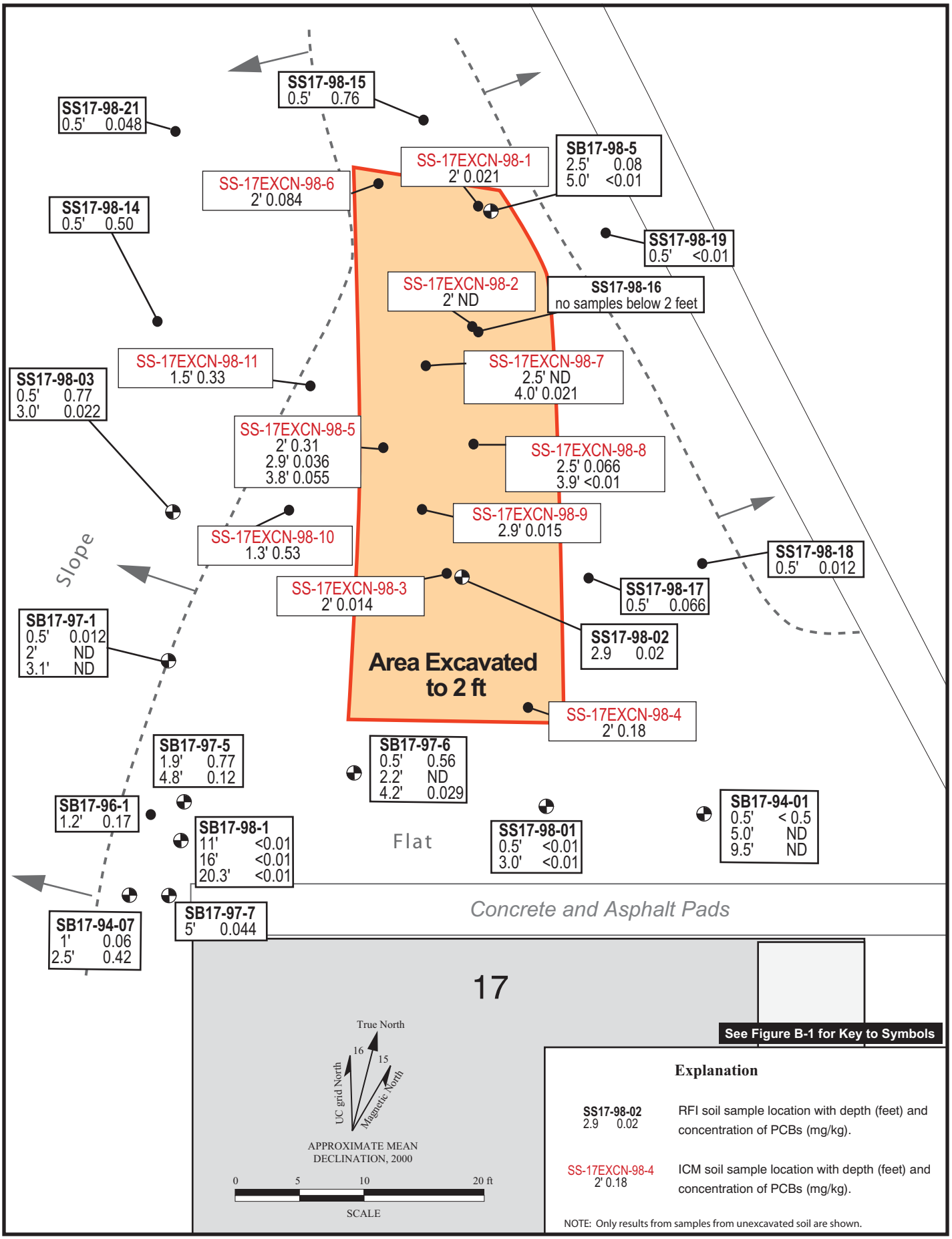


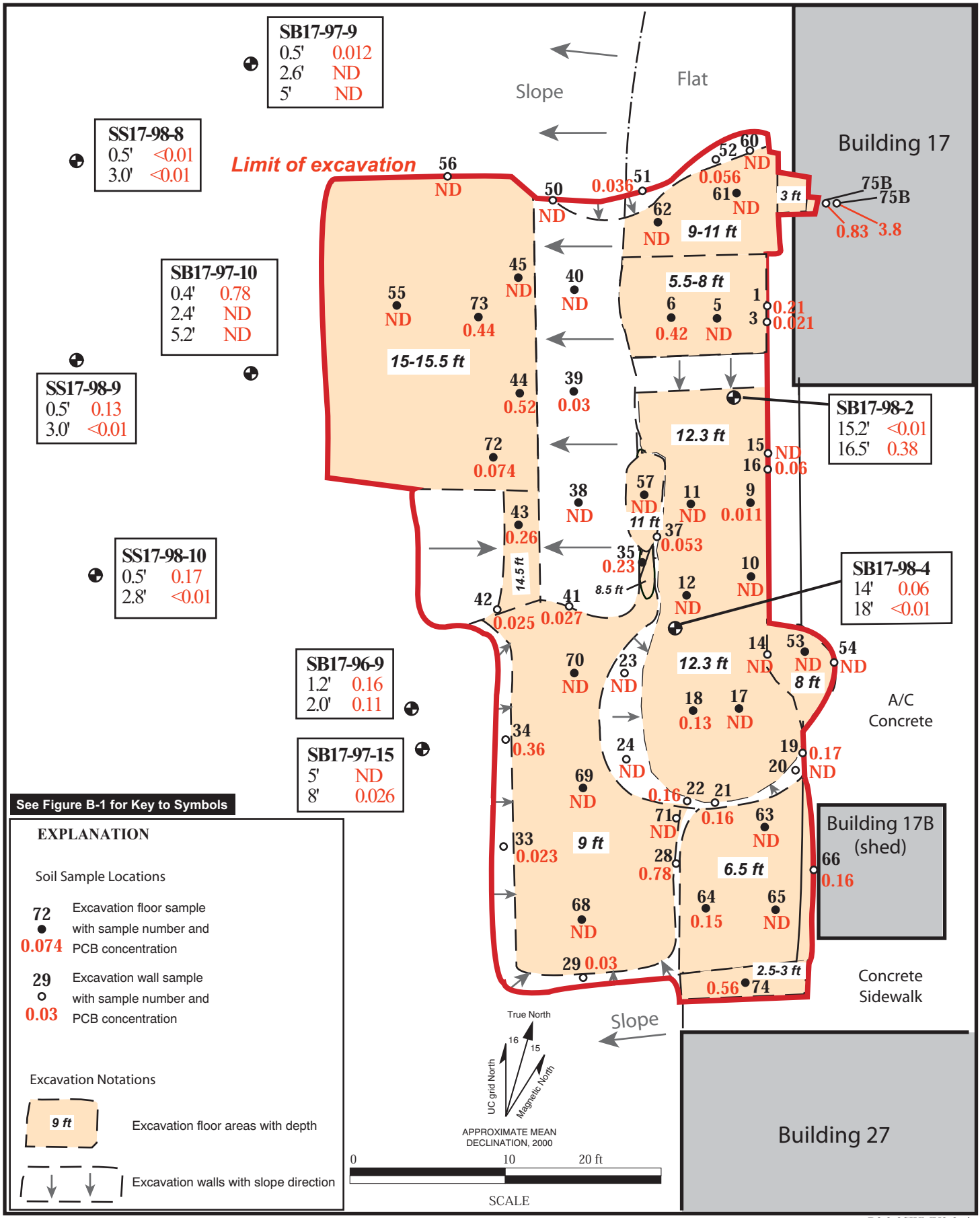
Figure B3.3-1. Locations of Soil Borings, Concentrations of PCBs in Soil Samples (mg/kg), and Estimated Areas of PCBs in Soil Above ICM Cleanup Level Prior to Excavation, Building 17 Former Scrapyard and Drum Storage Area (SWMU 2-3).

B3.3-1SWMU2-3.ai
09/00



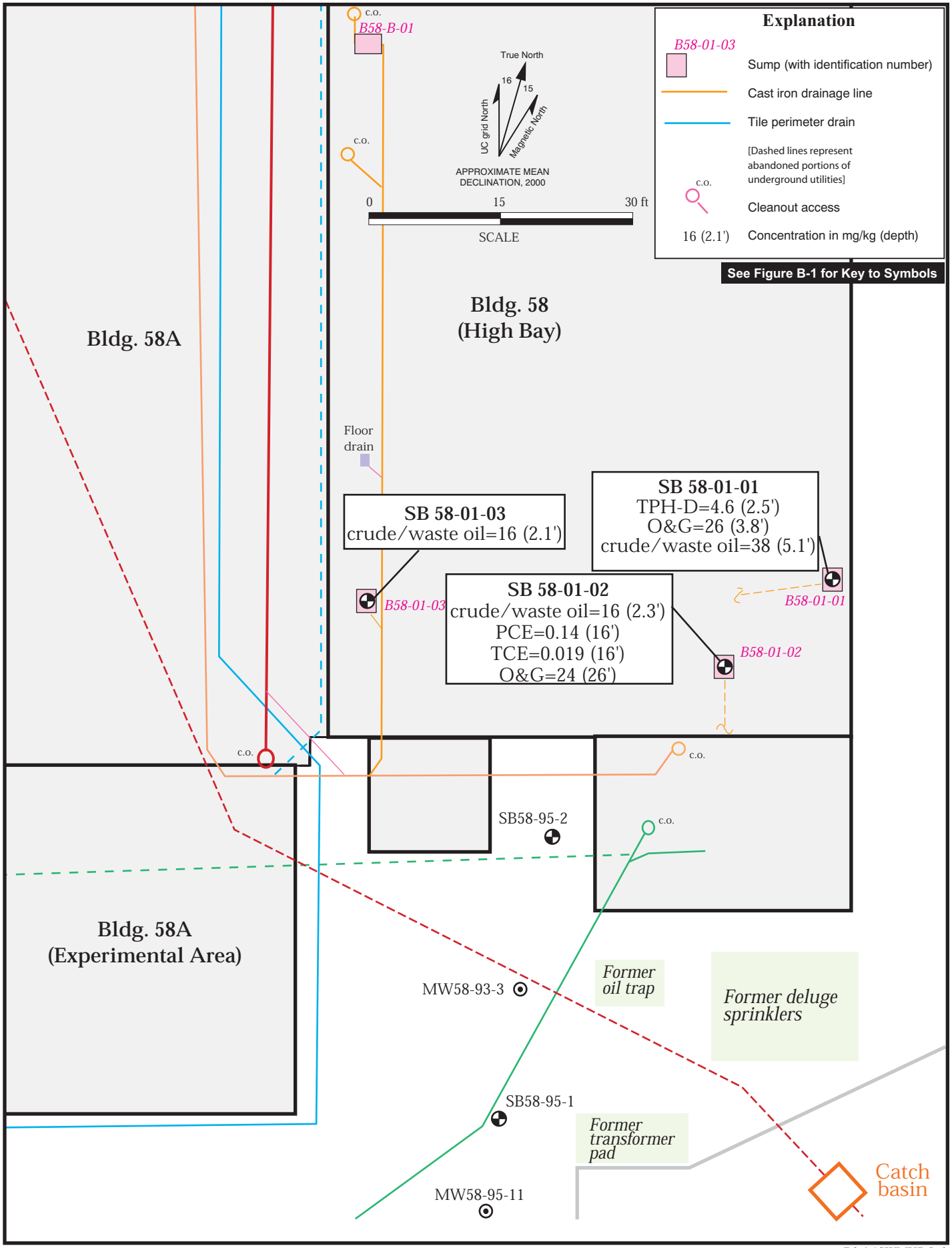
B3.3-2SWMU2-3.ai
09/00

Figure B3.3-2. Area of Soil Excavation and Concentrations of PCBs Detected (mg/kg) North of Building 17 Former Scrapyard and Drum Storage Area (SWMU 2-3).



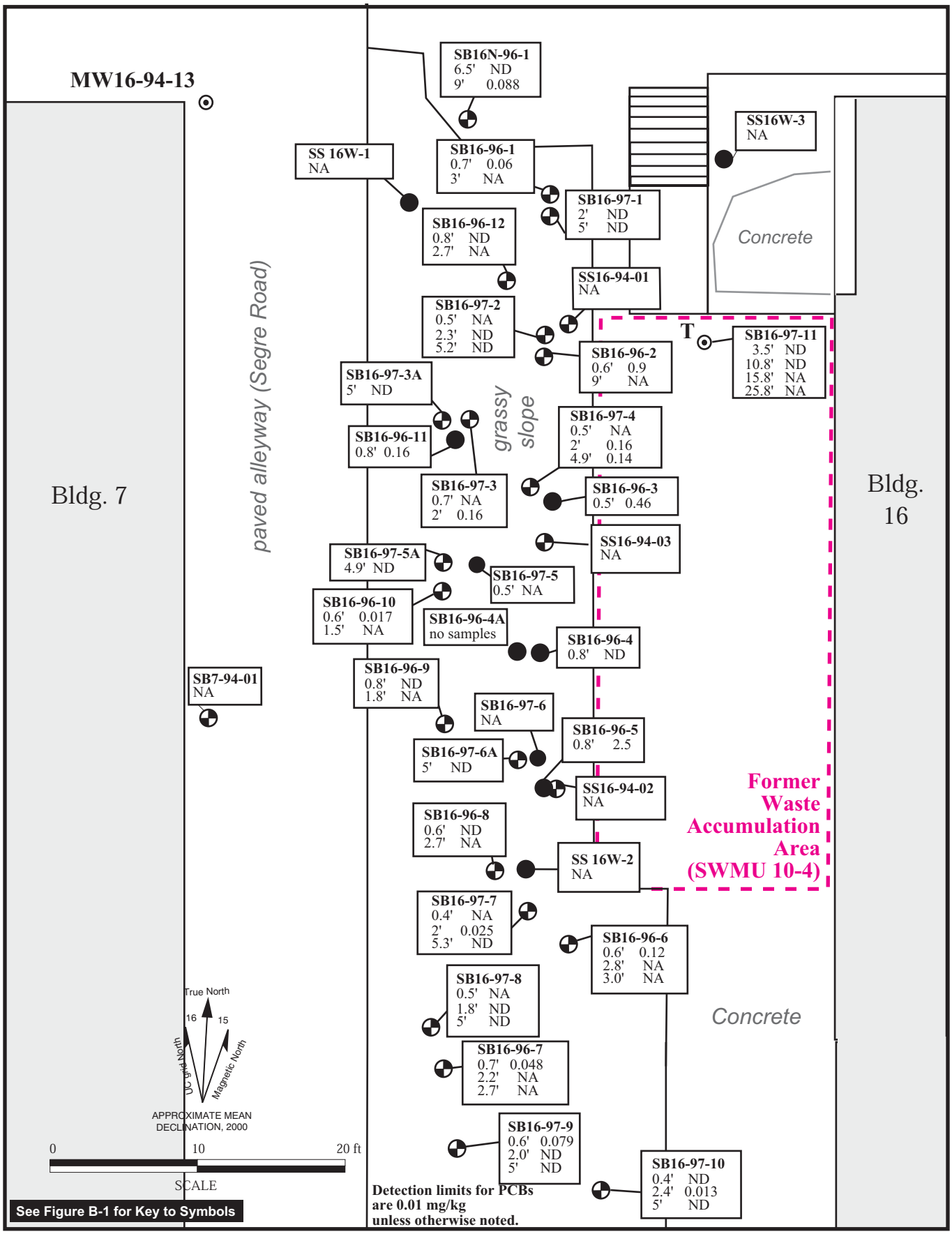
B3.3-3SWMU2-3.ai
09/00

Figure B3.3-3. Area of Soil Excavation and Concentrations of PCBs Detected (mg/kg) Southwest of Building 17 Former Scrapyard and Drum Storage Area (SWMU 2-3).



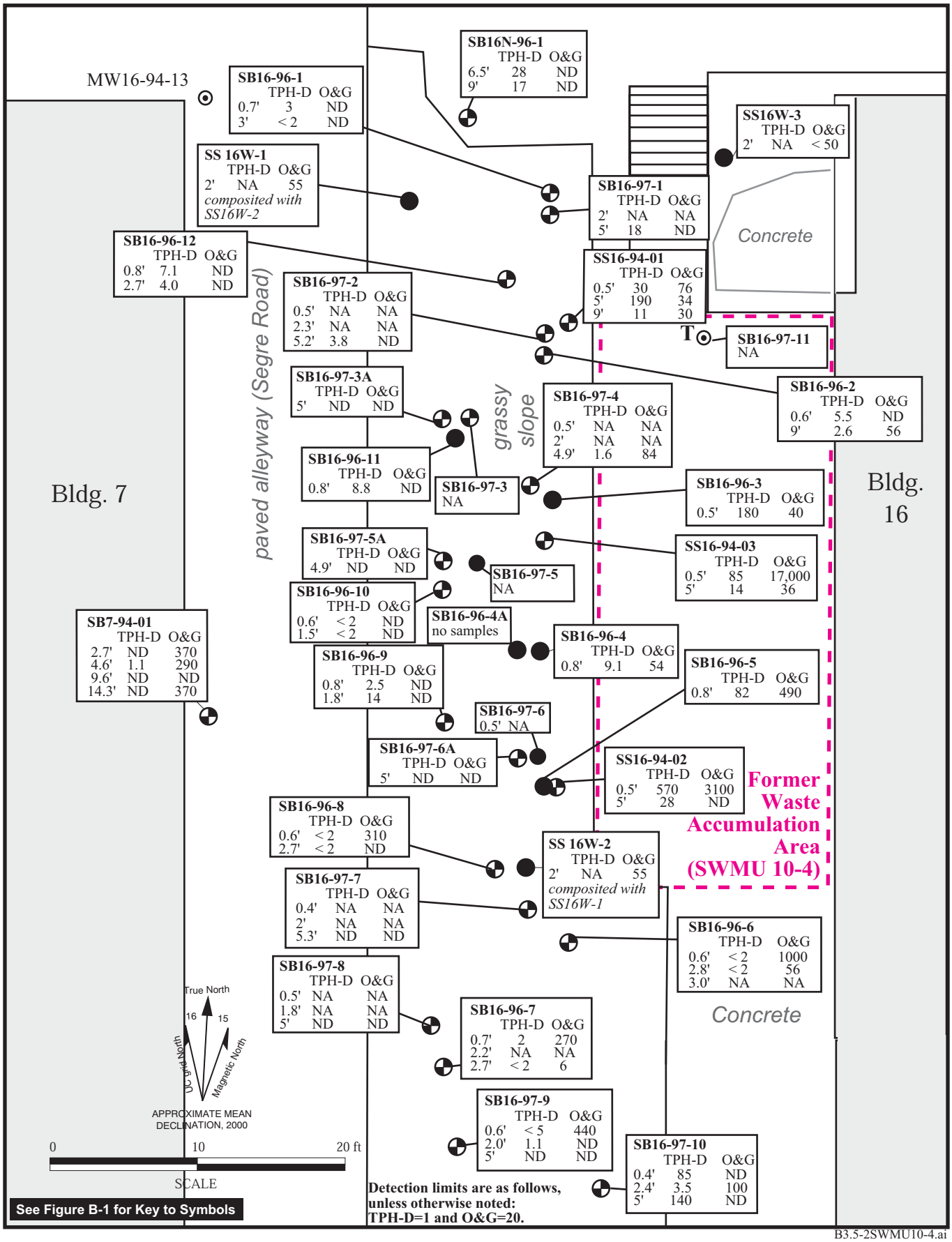
B3.4-1SWMU7-5.ai
09/00

Figure B3.4-1. Locations of Soil Borings and Maximum Concentrations of Contaminants Detected (mg/kg), Building 58 Sumps (SWMU 7-5).



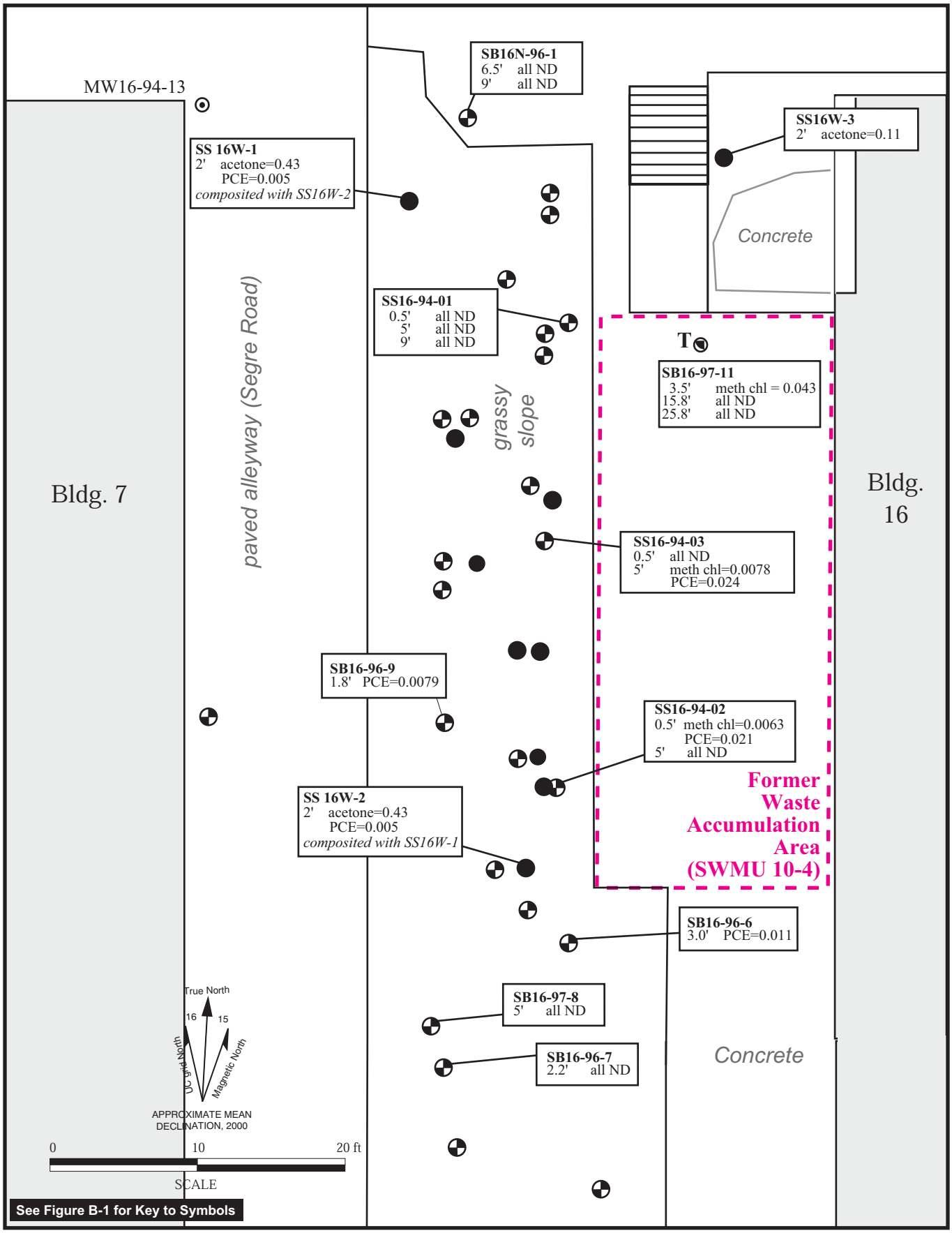
B3.5-1SWMU10-4.ai
09/00

Figure B3.5-1. **Locations of Soil Borings and Concentrations of PCBs Detected (mg/kg), Building 16 Former Waste Accumulation Area (SWMU 10-4).**



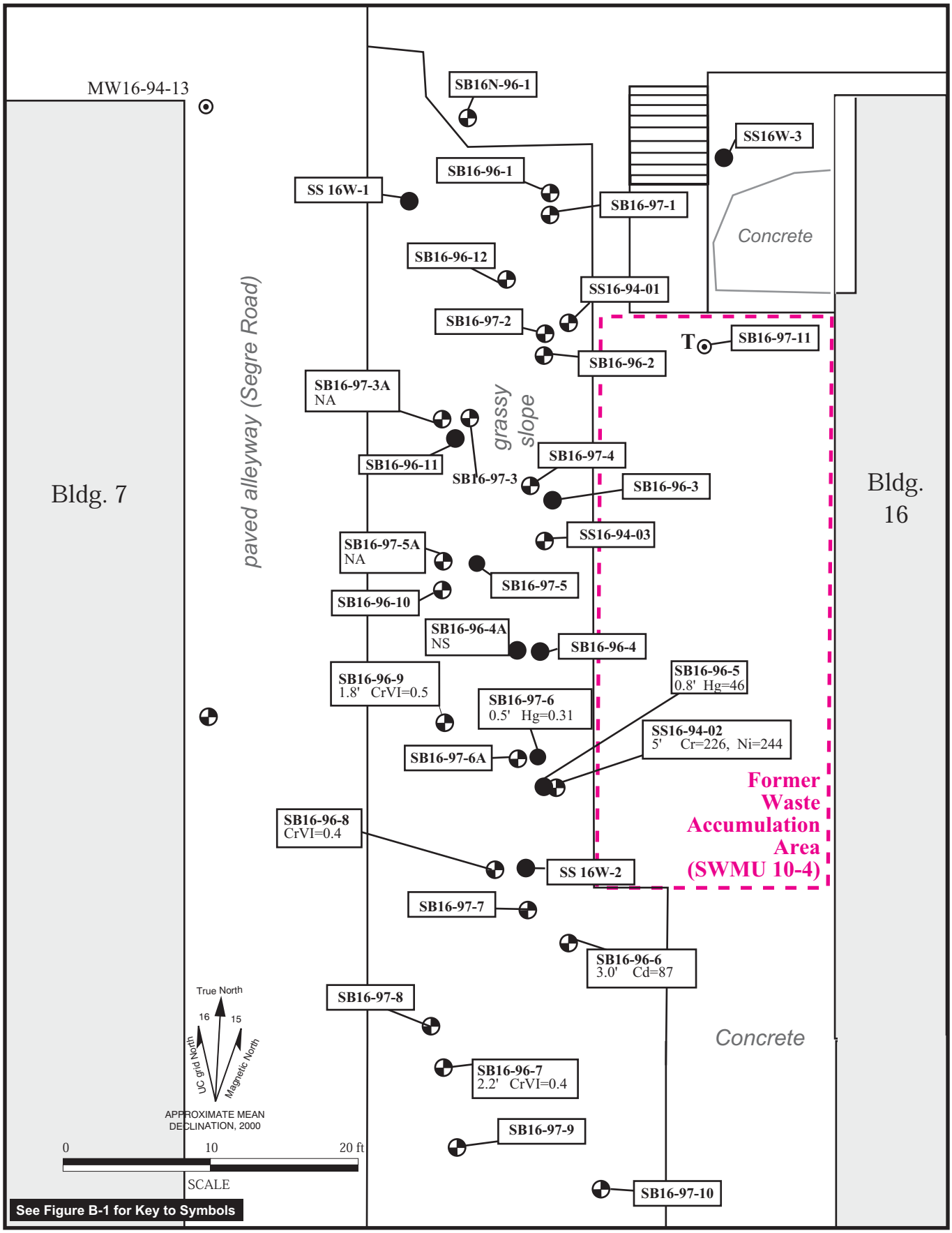
B3.5-2SWMU10-4.ai
09/00

Figure B3.5-2. Locations of Soil Borings and Concentrations of TPH-D and O&G Detected (mg/kg), Building 16 Former Waste Accumulation Area (SWMU 10-4).



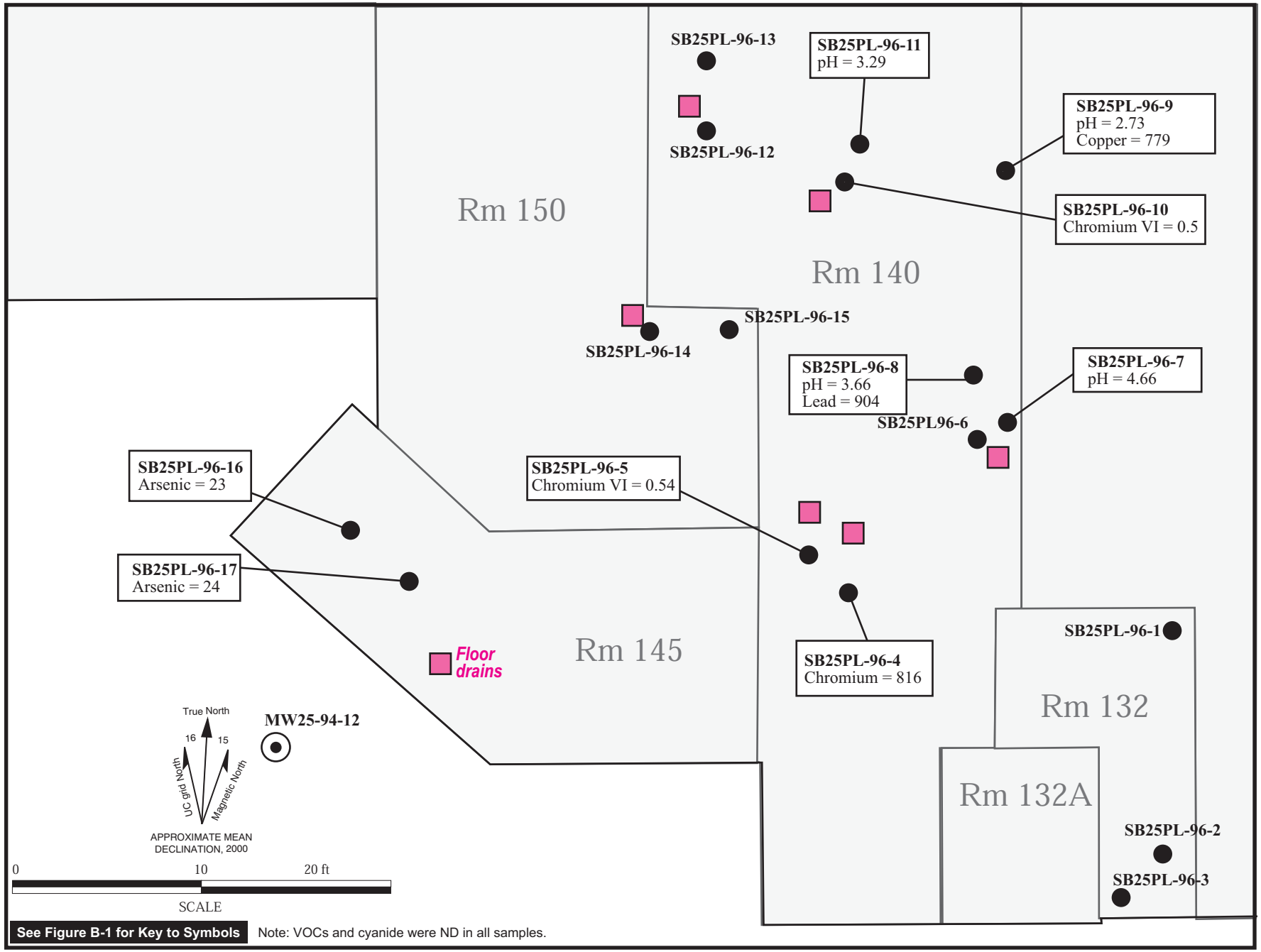
B3.5-3SWMU10-4.ai
09/00

Figure B3.5-3. Locations of Soil Borings and Concentrations of VOCs Detected (mg/kg), Building 16 Former Waste Accumulation Area (SWMU 10-4).



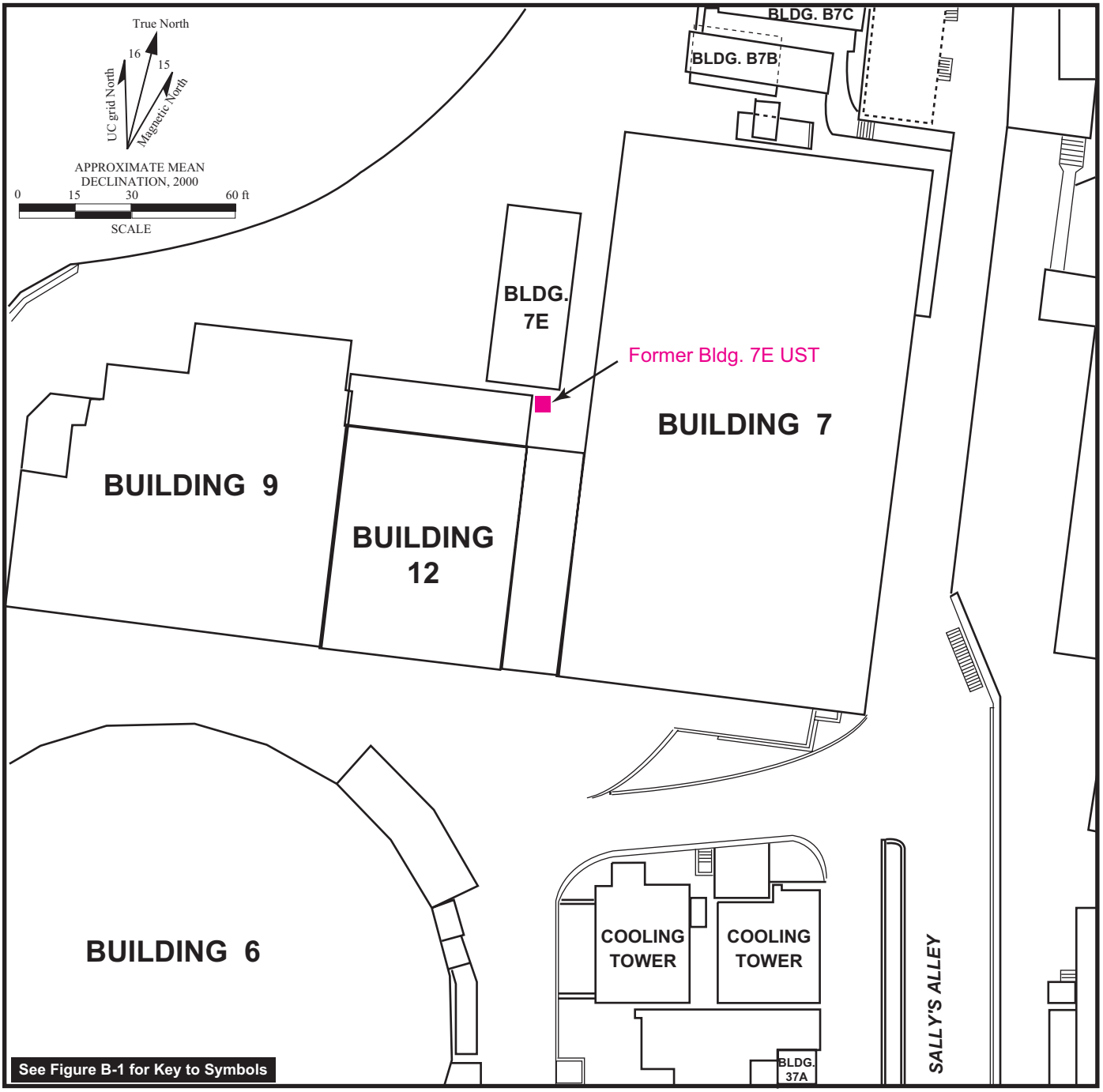
B3.5-4SWMU10-4.ai
09/00

Figure B3.5-4. Locations of Soil Borings and Concentrations of Metals (mg/kg) Detected Above Both Background and PRGs for Residential Soil, Building 16 Former Waste Accumulation Area (SWMU 10-4).



B3.6-1SWMU10-10.ai
09/00

Figure B3.6-1. Locations of Soil Borings and Concentrations of Metals Detected (mg/kg) Above Both PRGs and Background and Samples With pH<5.0, Building 25 Plating Shop Floor Drains (SWMU 10-10).



B3.7-1AOC2-1.ai
09/00

Figure B3.7-1. Location Map, Former Building 7E Diesel Underground Storage Tank (Pre-1989 Old Town Area Configuration) (AOC 2-1).

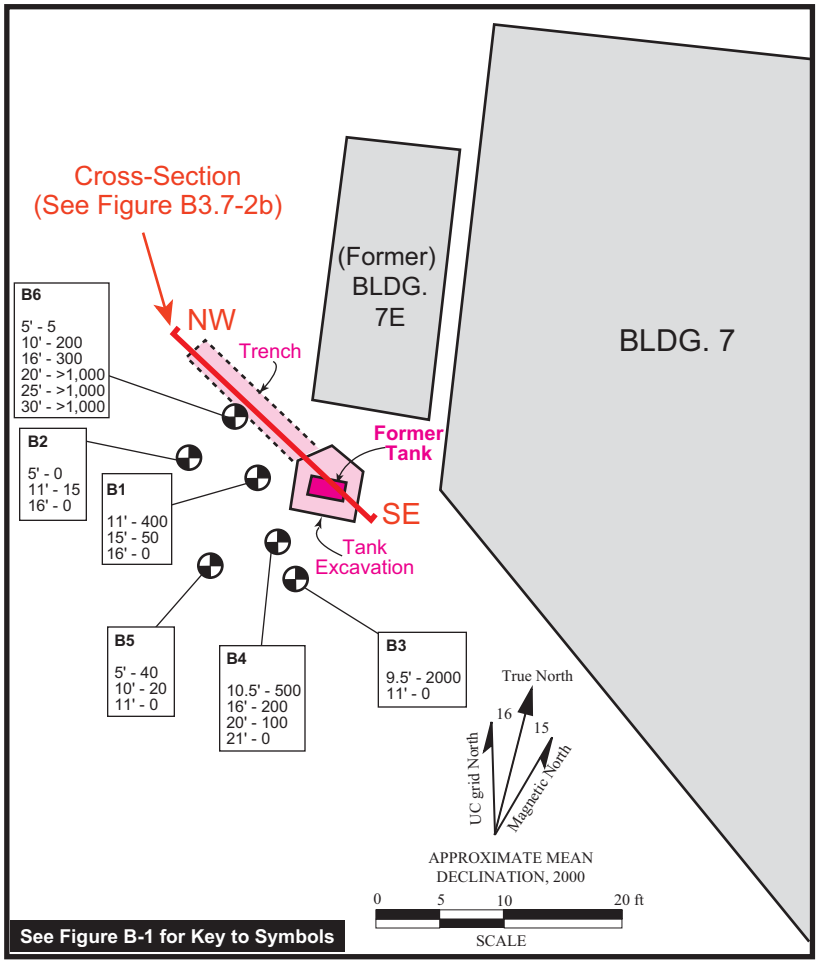


Figure B3.7-2a. **Location of Excavation, Trench, and Soil Borings, Showing Soil Boring OVA Readings, Former Building 7E Diesel UST Site (AOC 2-1).**

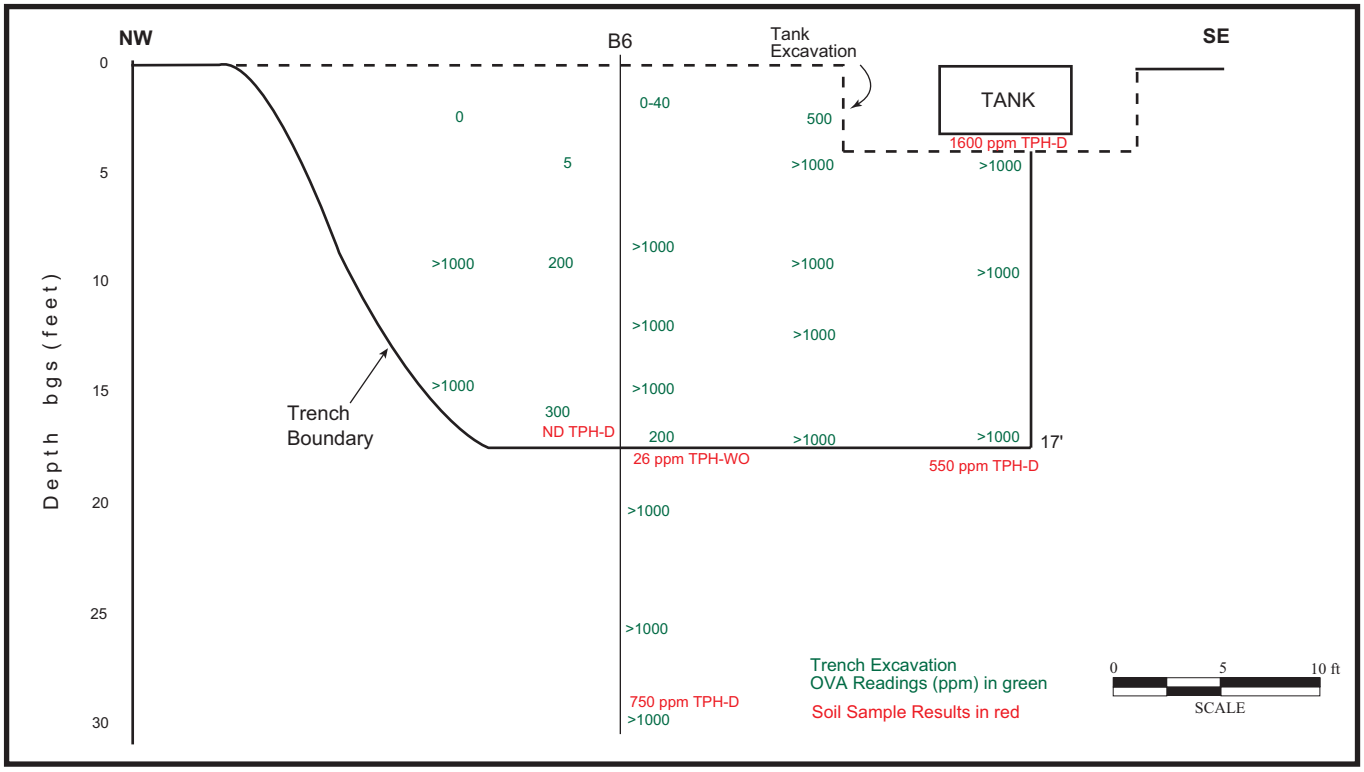
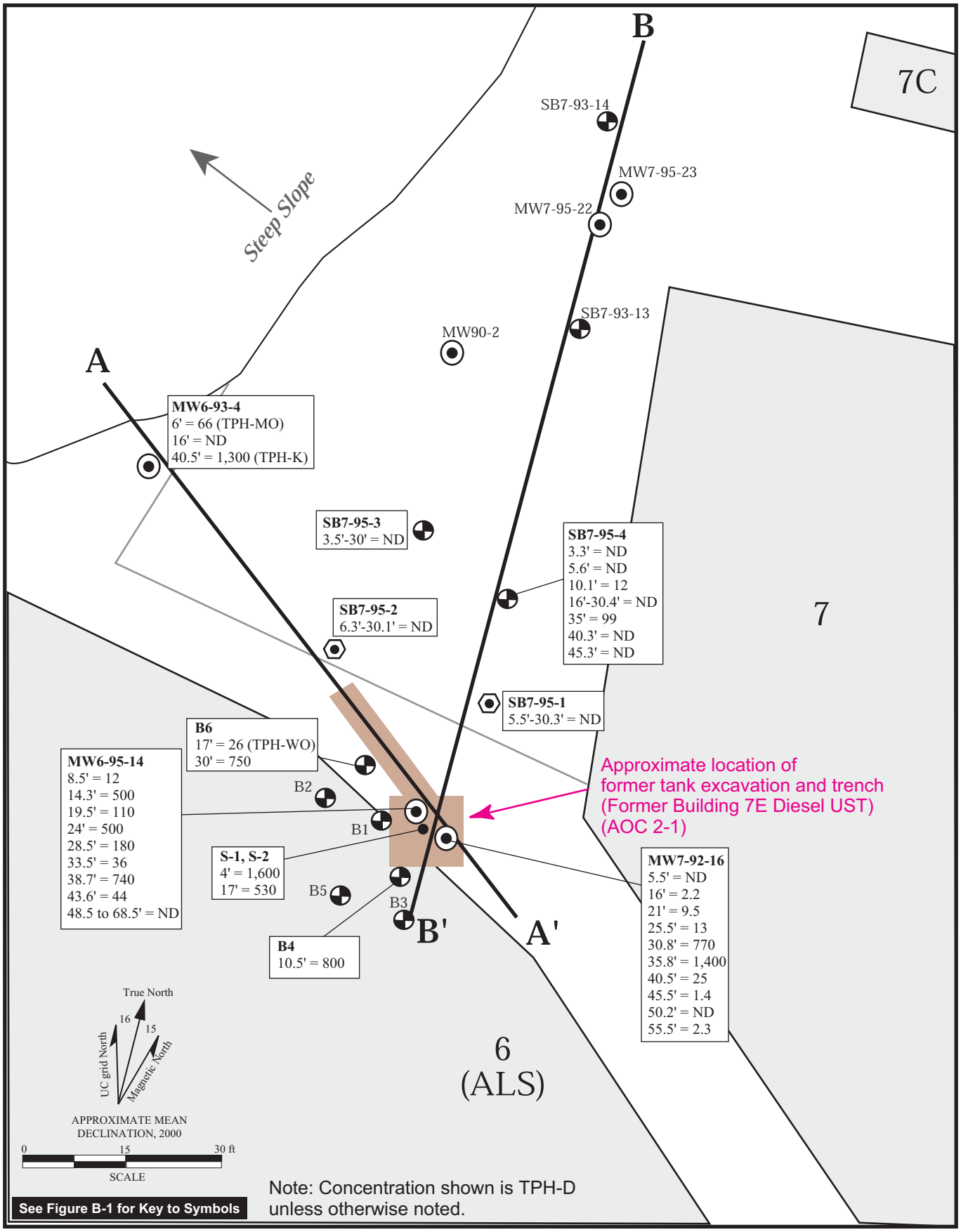


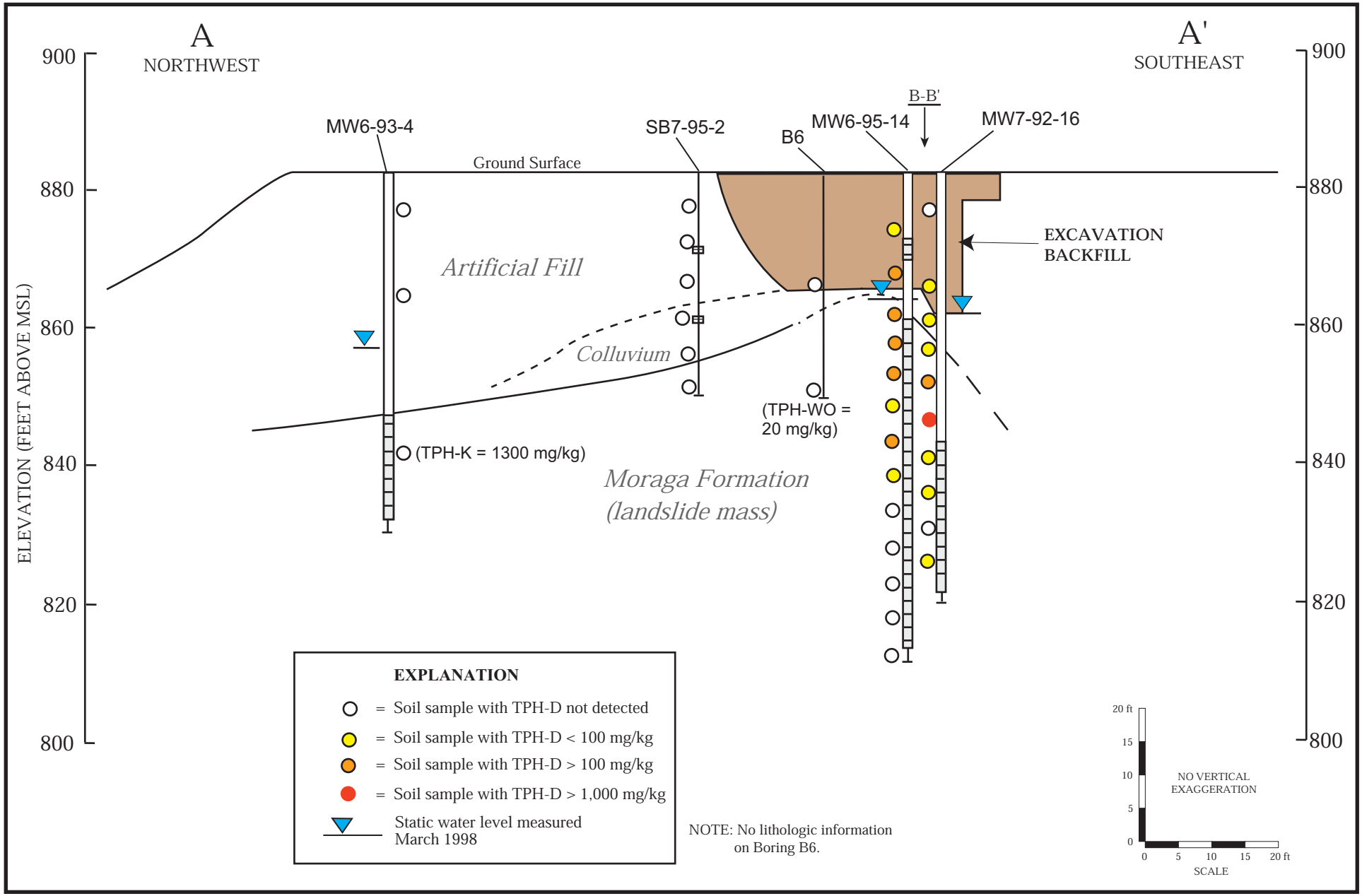
Figure B3.7-2b. **Cross-Section Showing OVA Readings and Concentrations of Contaminants Detected in Initial Excavation, Trench, and Soil Borings, Former Building 7E Diesel UST Site (AOC 2-1).**

B3.7-2AOC2-1.ai
09/00



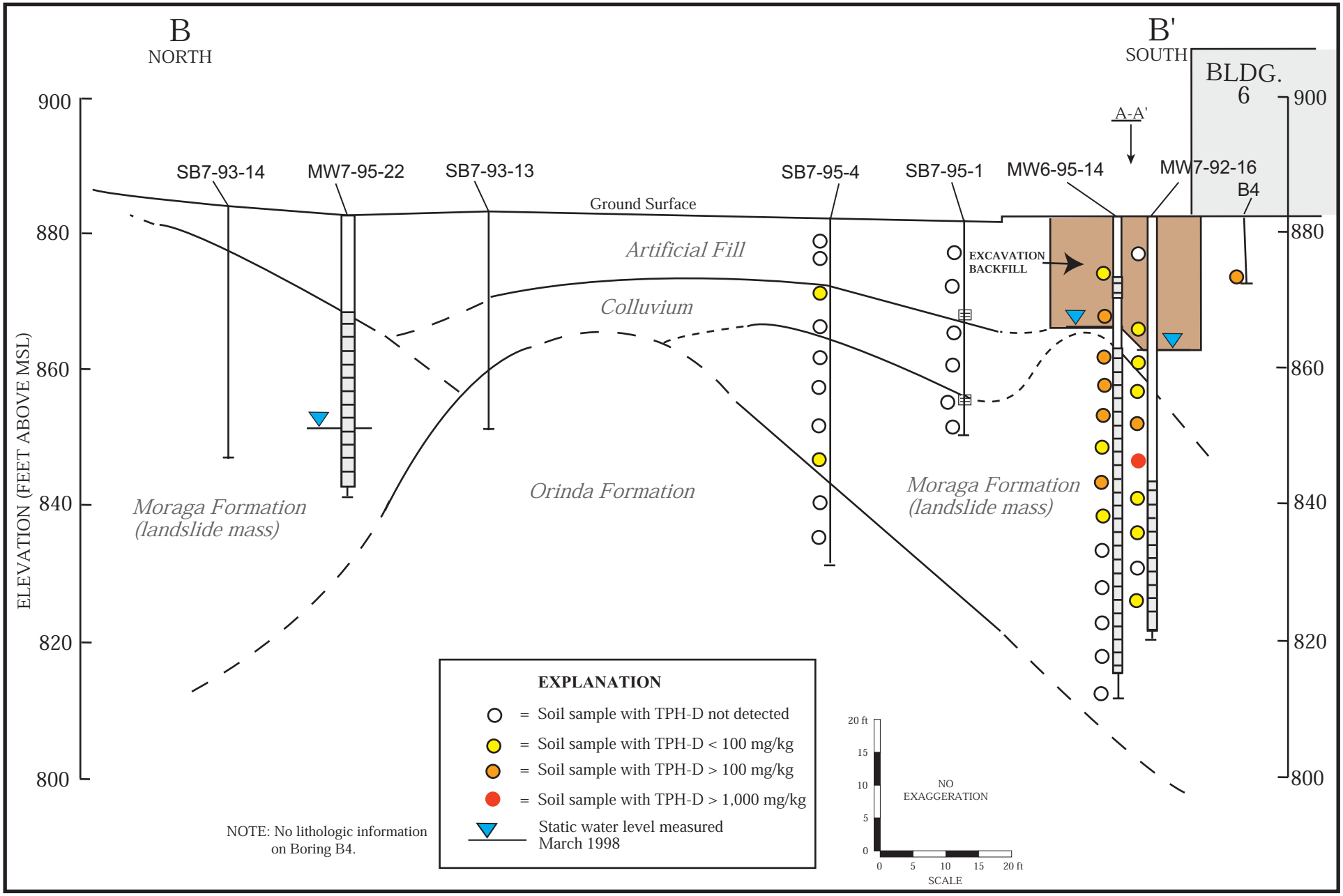
B3.7-3AOC2-1.ai
09/00

Figure B3.7-3. Concentrations of TPH Detected (mg/kg) in Soil Borings, Former Building 7E Diesel UST Site (AOC 2-1).



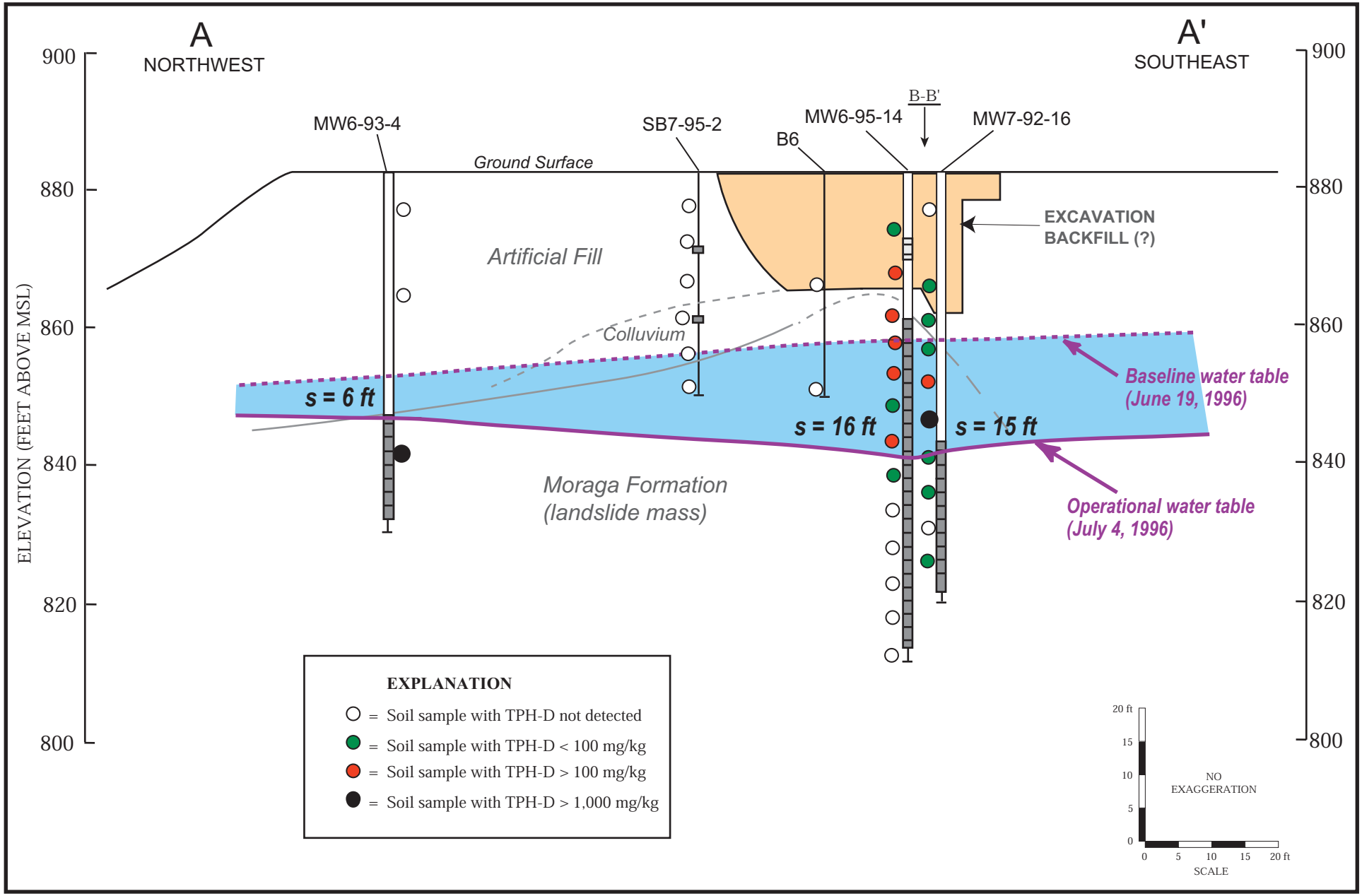
B3.7-4AOC2-1.ai
09/00

Figure B3.7-4. Cross-Section A-A', Former Building 7E Diesel UST Site (AOC 2-1).



B3.7-5AOC2-1.ai
09/00

Figure B3.7-5. Cross-Section B-B', Former Building 7E Diesel UST Site (AOC 2-1).



B3.7-6AOC2-1.ai
09/00

Figure B3.7-6. Cross-Section A-A' Showing the Change in the Groundwater Level During Pilot Test Operation, Former Building 7E Diesel UST Site (AOC 2-1).

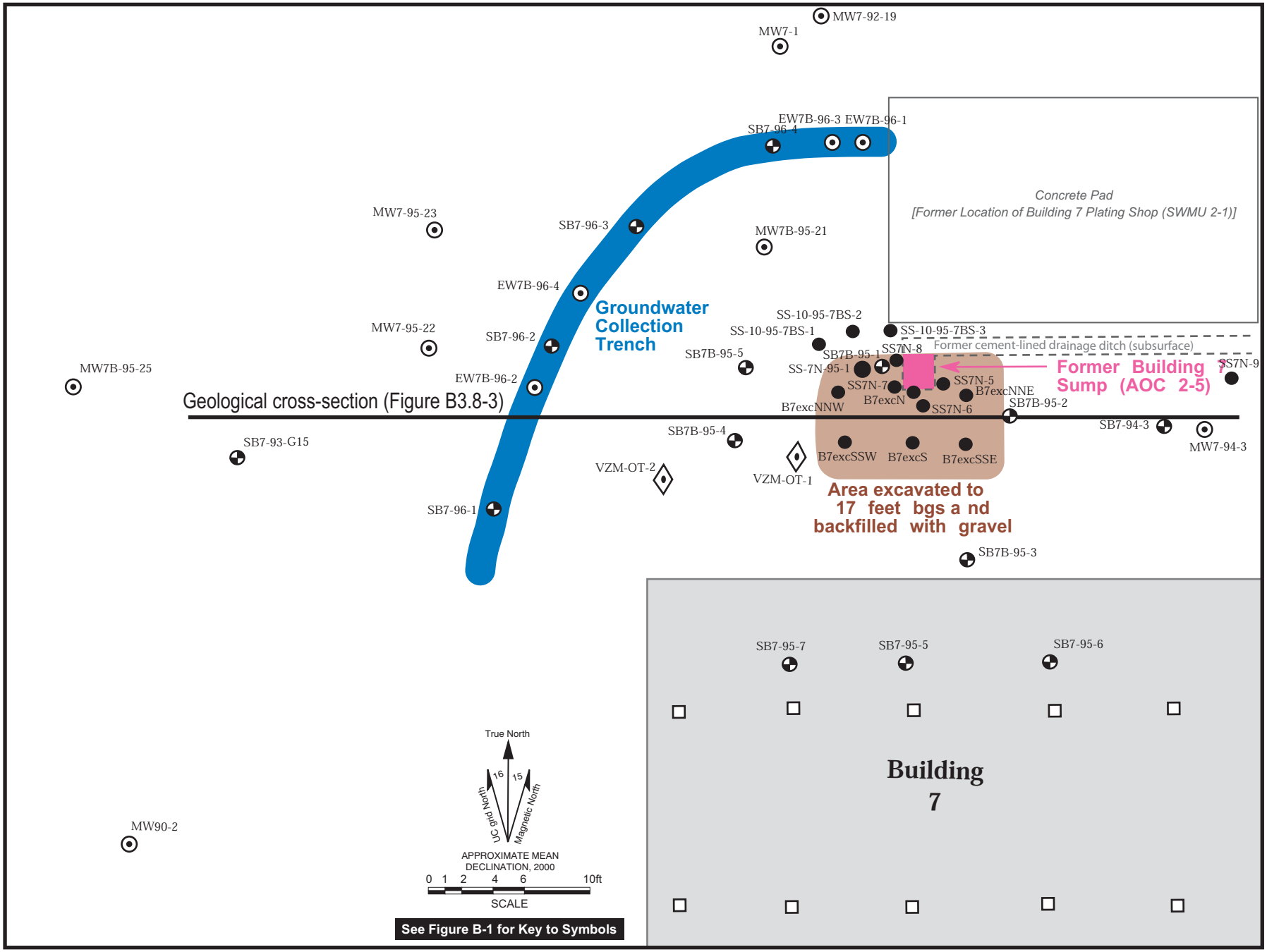
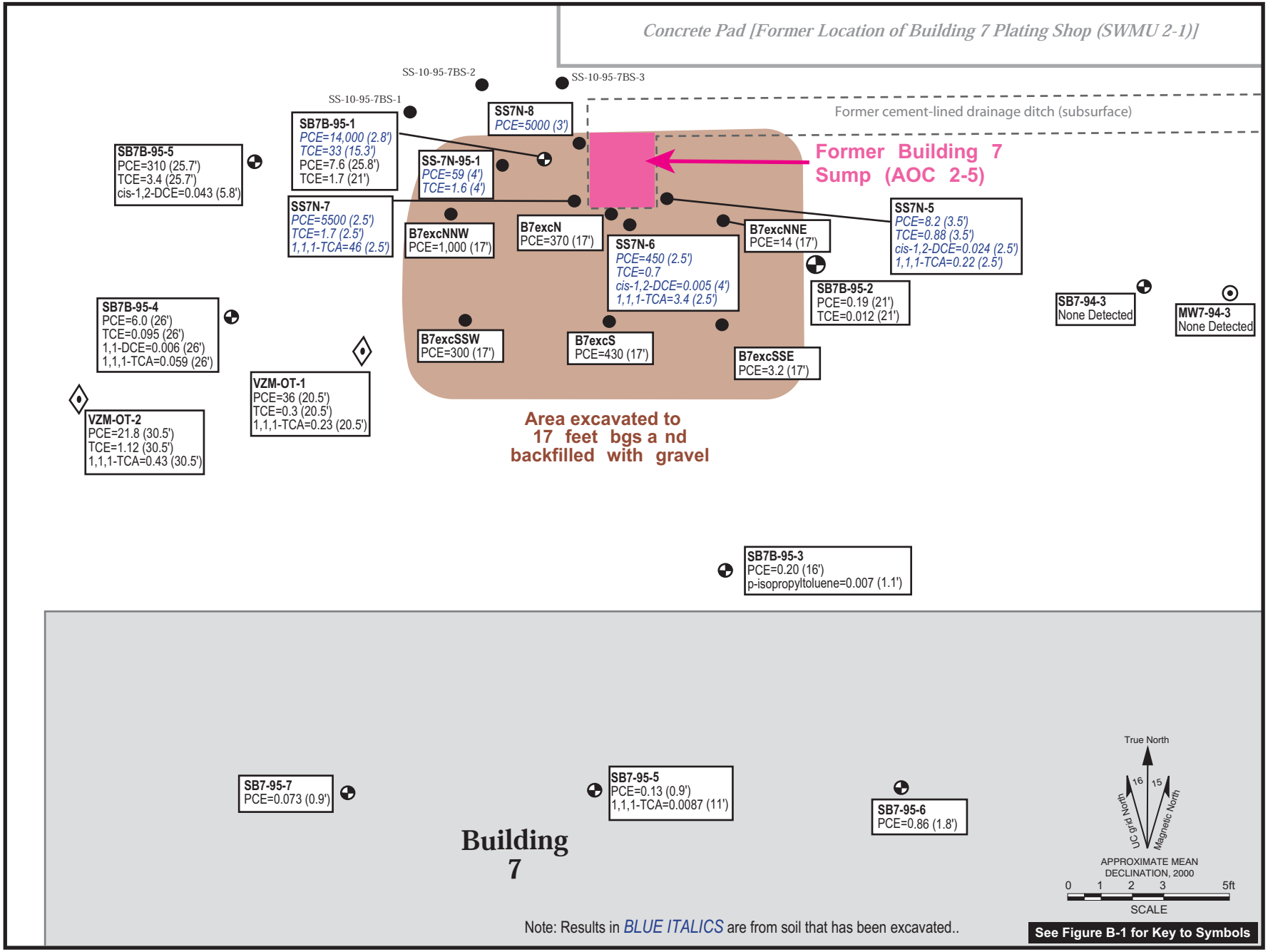


Figure B3.8-1. Locations of Soil Samples, Former Building 7 Sump (AOC 2-5).

B3.8-1AOC2-5.ai
09/00



B3.8-2AOC2-5.ai

Figure B3.8-2. Maximum Concentrations of VOCs Detected (mg/kg) in Soil Samples Near Former Building 7 Sump (AOC 2-5). 09/00

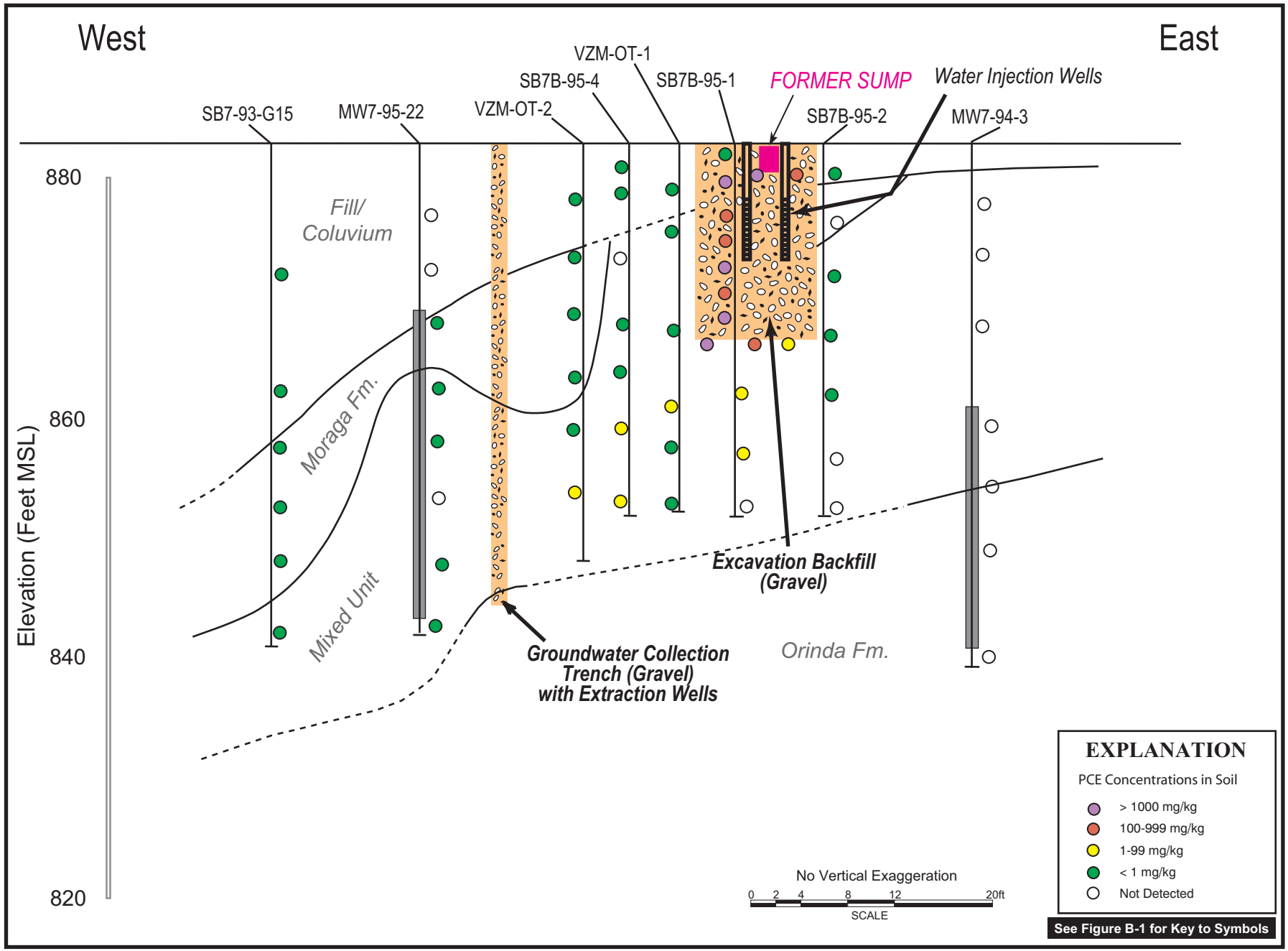
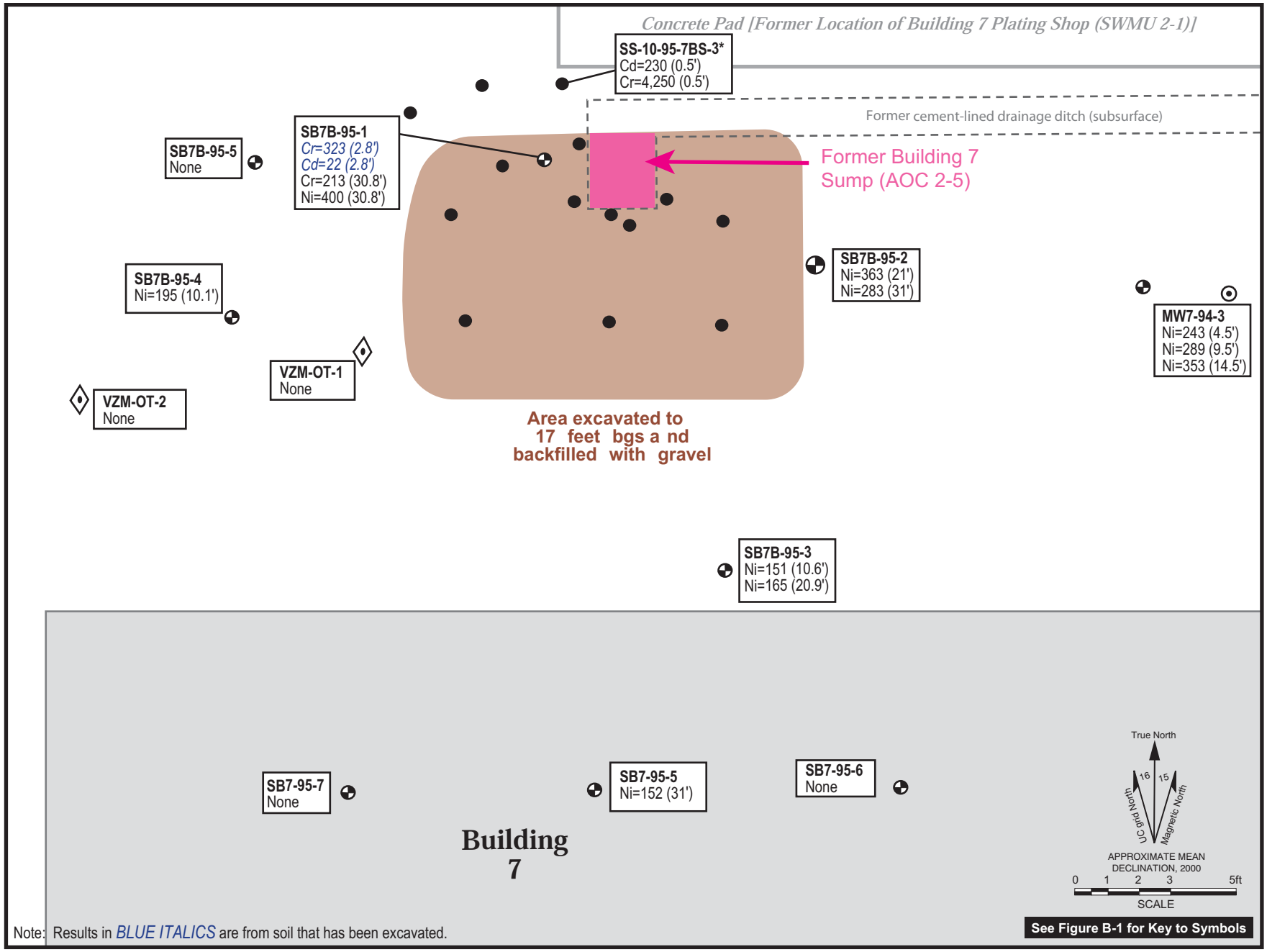


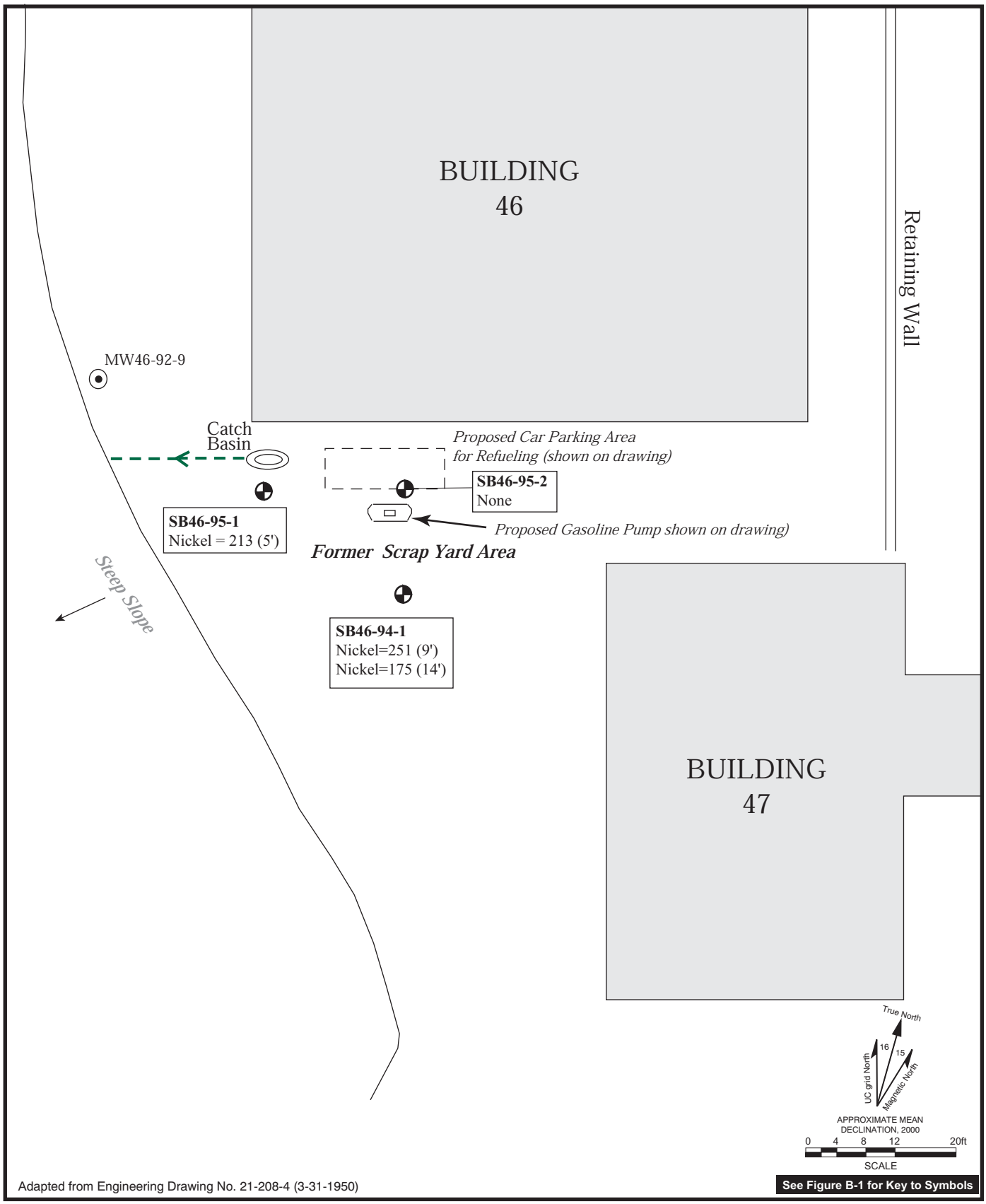
Figure B3.8-3. Geological Cross-Section Showing Concentrations of PCE Detected in Soil Samples Near Former Building 7 Sump (AOC 2-5).

B3.8-3AOC2-5.ai
08/00



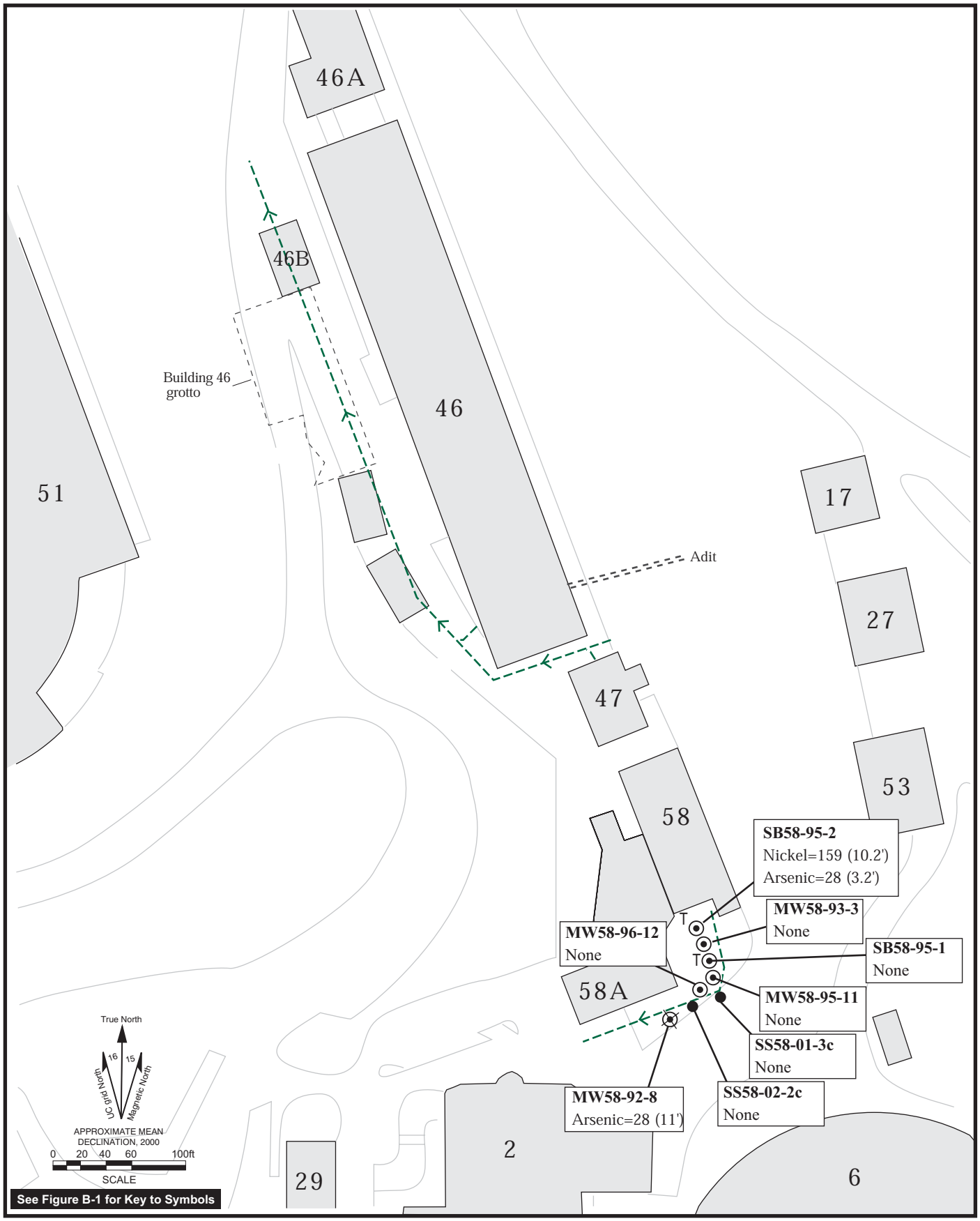
B3.8-4AOC2-5.ai
09/00

Figure B3.8-4. Metals Detected (mg/kg) in Soil Samples at Concentrations Above Background and PRGs Near Former Building 7 Sump (AOC 2-5).



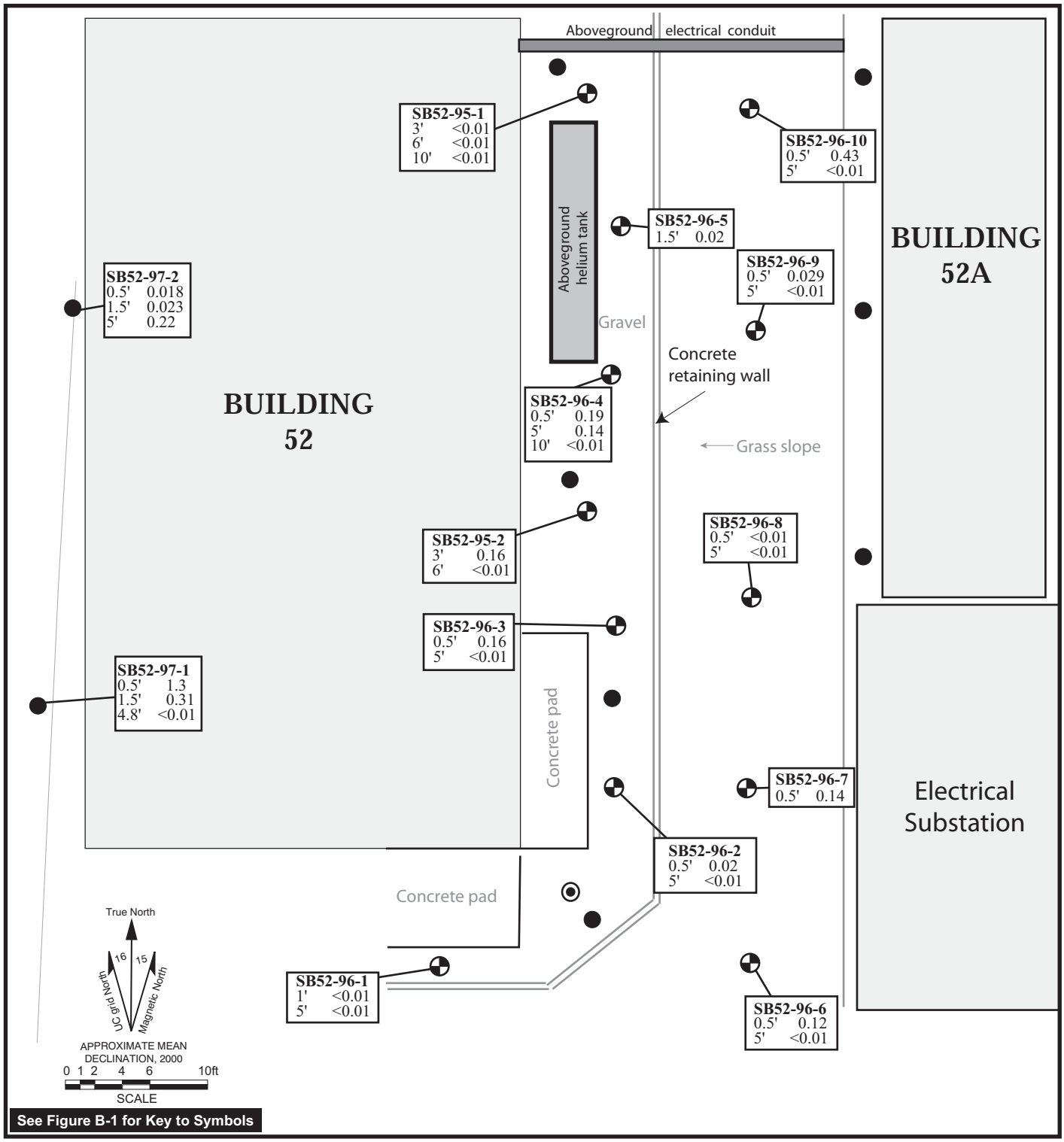
B3.9-1AOC7-1.ai
09/00

Figure B3.9-1. Locations of Soil Borings Showing Concentrations Exceeding Both Background and PRGs, Building 46 Former Scrap Yard Area (AOC 7-1).



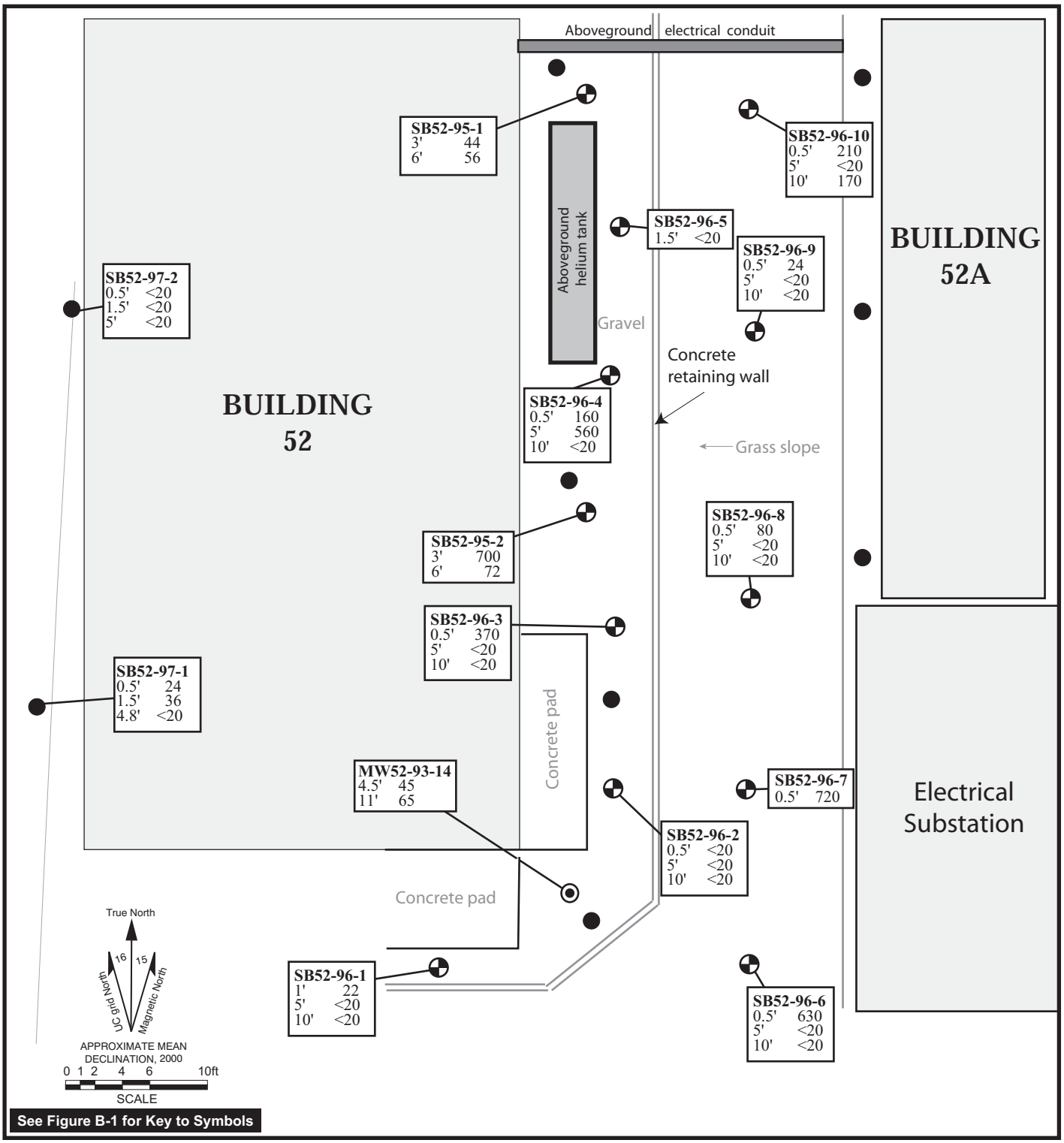
B3.10-1AOC7-6.ai
09/00

Figure 3.10-1. Locations of Soil Samples Showing Concentrations of Analytes Exceeding Both Background and PRGs, Building 58 Former Hazardous Materials Storage Area (AOC 7-6).



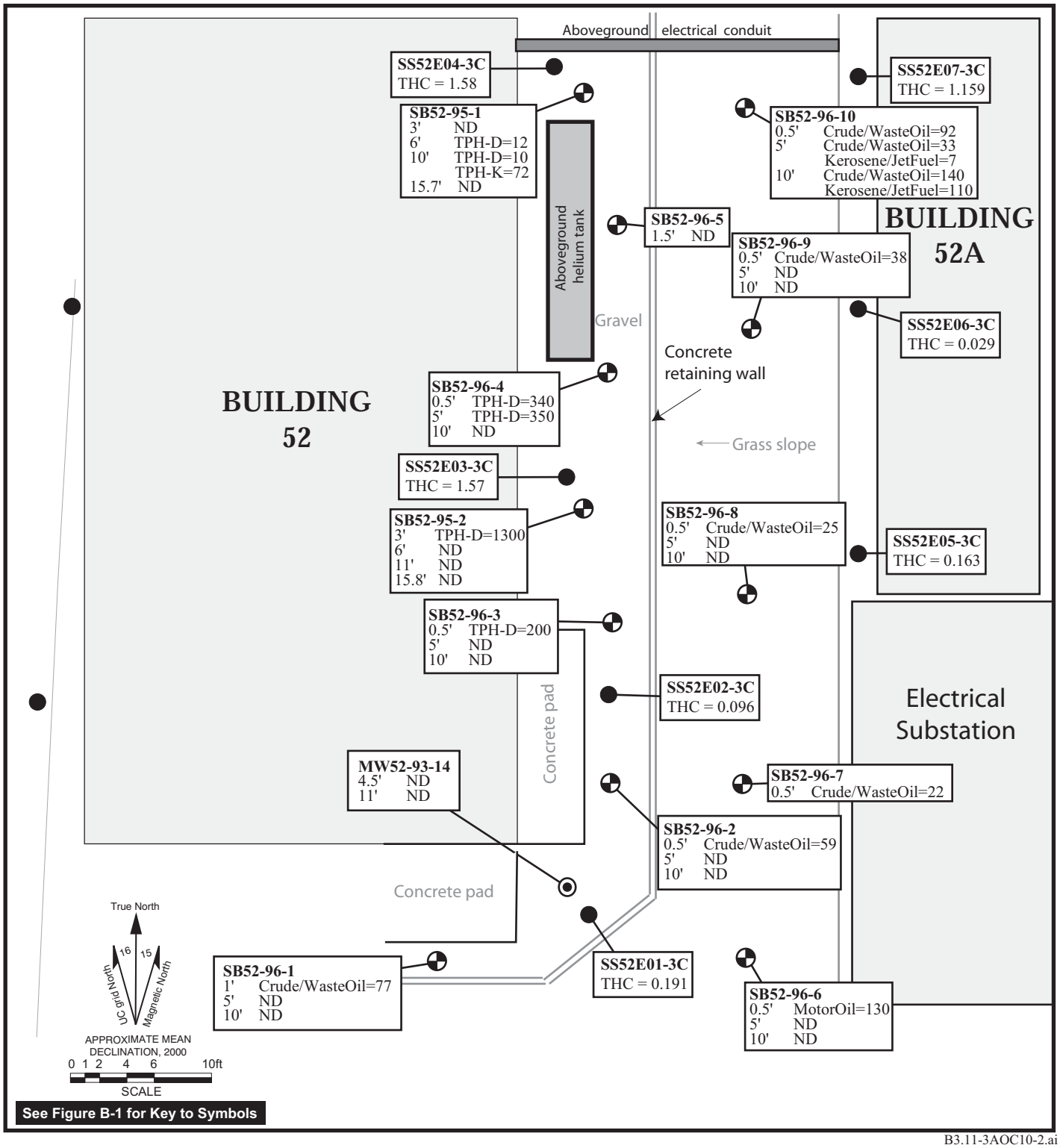
B3.11-1AOC10-2.ai
09/00

Figure B3.11-1. Locations of Soil Samples Showing PCB Concentrations (mg/kg), Building 52 Former Hazardous Materials Storage Area (AOC 10-2).



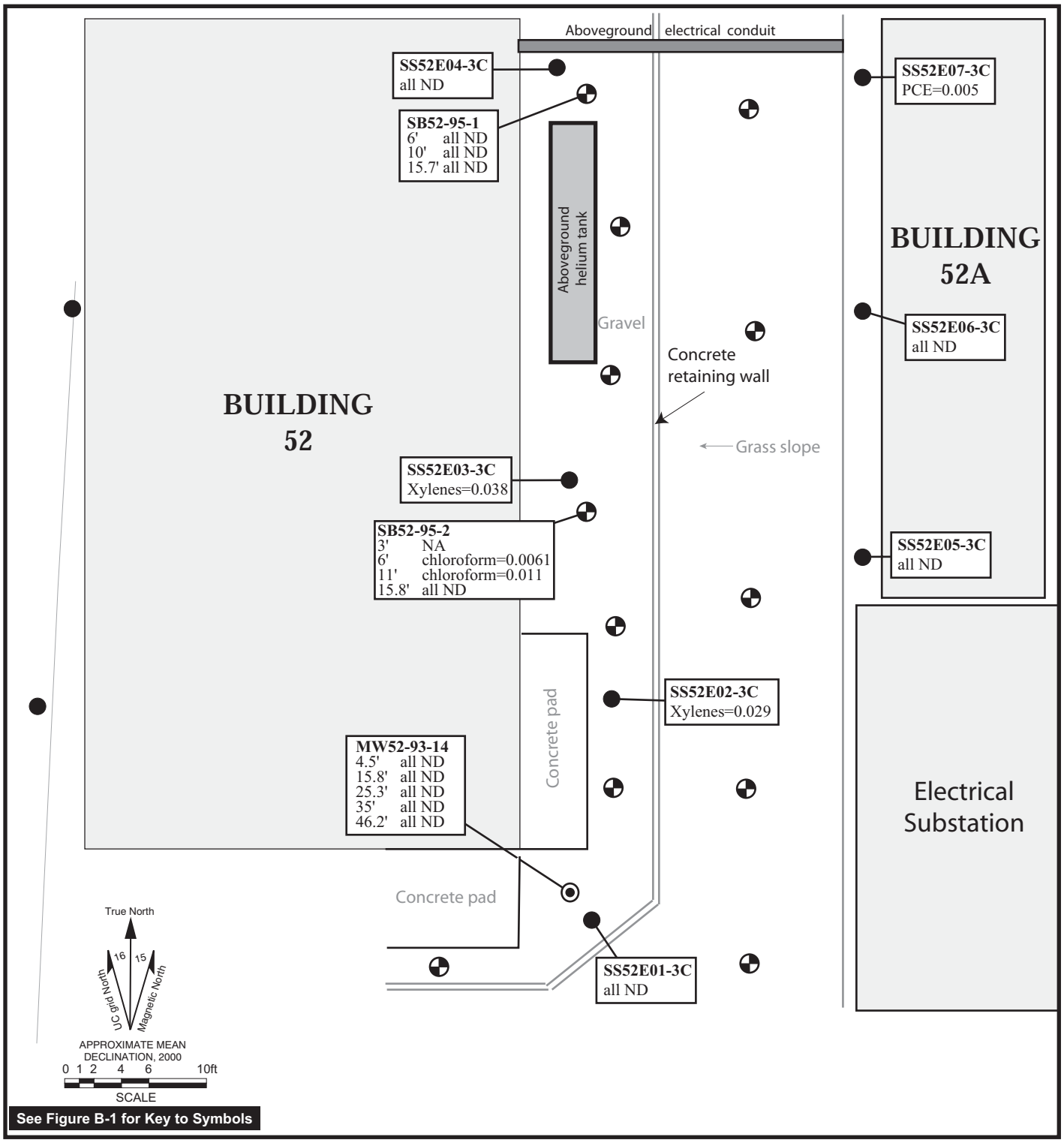
B3.11-2AOC10-2.ai
09/00

Figure B3.11-2. Locations of Soil Samples Showing Total Oil and Grease Concentrations (mg/kg), Building 52 Former Hazardous Materials Storage Area (AOC 10-2).



B3.11-3AOC10-2.ai
09/00

Figure B3.11-3. Locations of Soil Samples Showing Fuel and TPH Concentrations (mg/kg), Building 52 Former Hazardous Materials Storage Area (AOC 10-2).



B3.11-4AOC10-2.ai
09/00

Figure B3.11-4. Locations of Soil Samples Showing VOC Concentrations (mg/kg), Building 52 Former Hazardous Materials Storage Area (AOC 10-2).

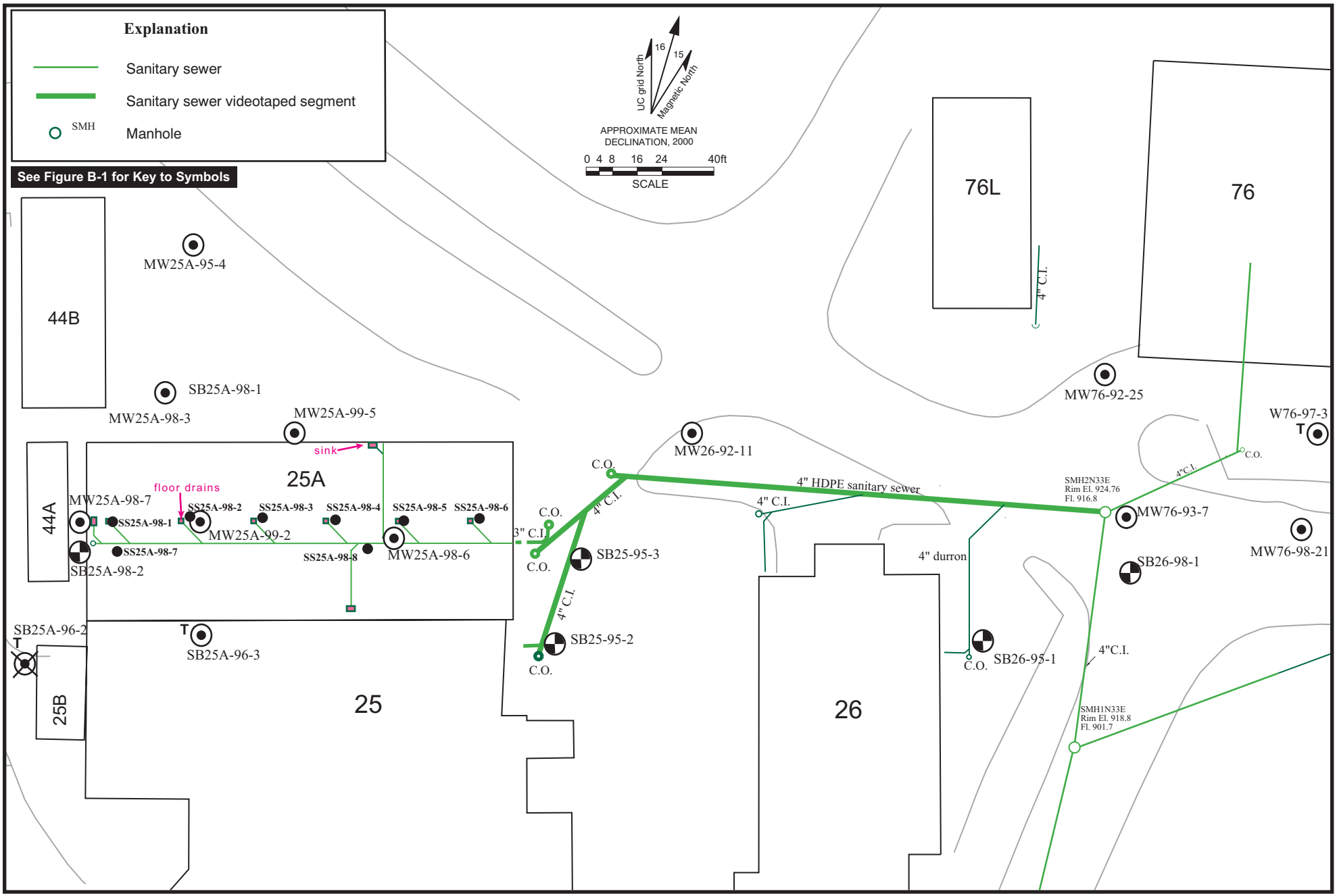


Figure B3.12-1. Locations of Soil Borings and Videotaped Survey Segments, Building 25A Sanitary Sewer (AOC 10-3).

B3.12-1AOC10-3.ai
09/00

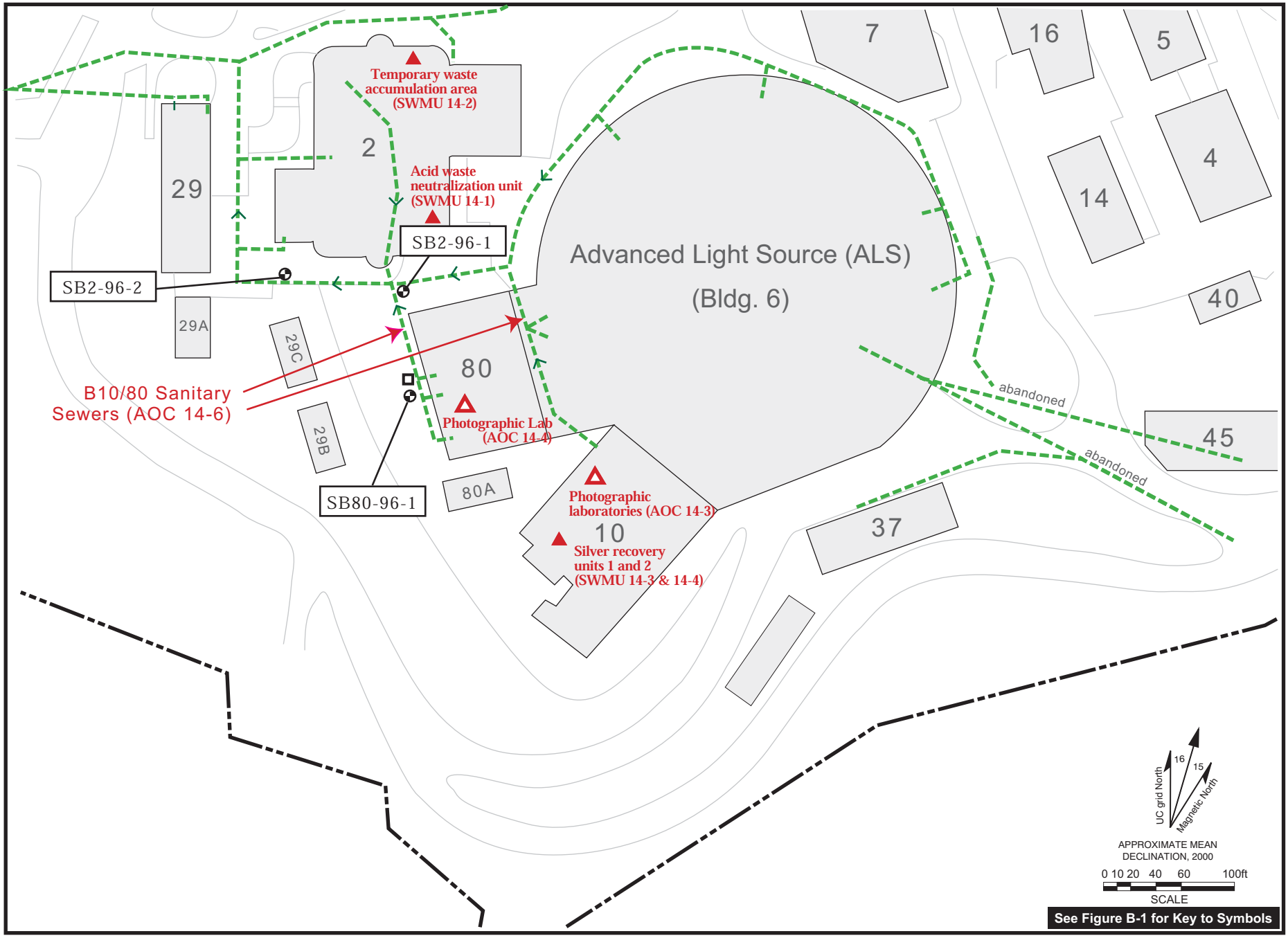


Figure B3.13-1. Locations of Soil Borings, Building 10/80 Sanitary Sewers (AOC 14-6).

B3.13-1AOC14-6.ai
09/00

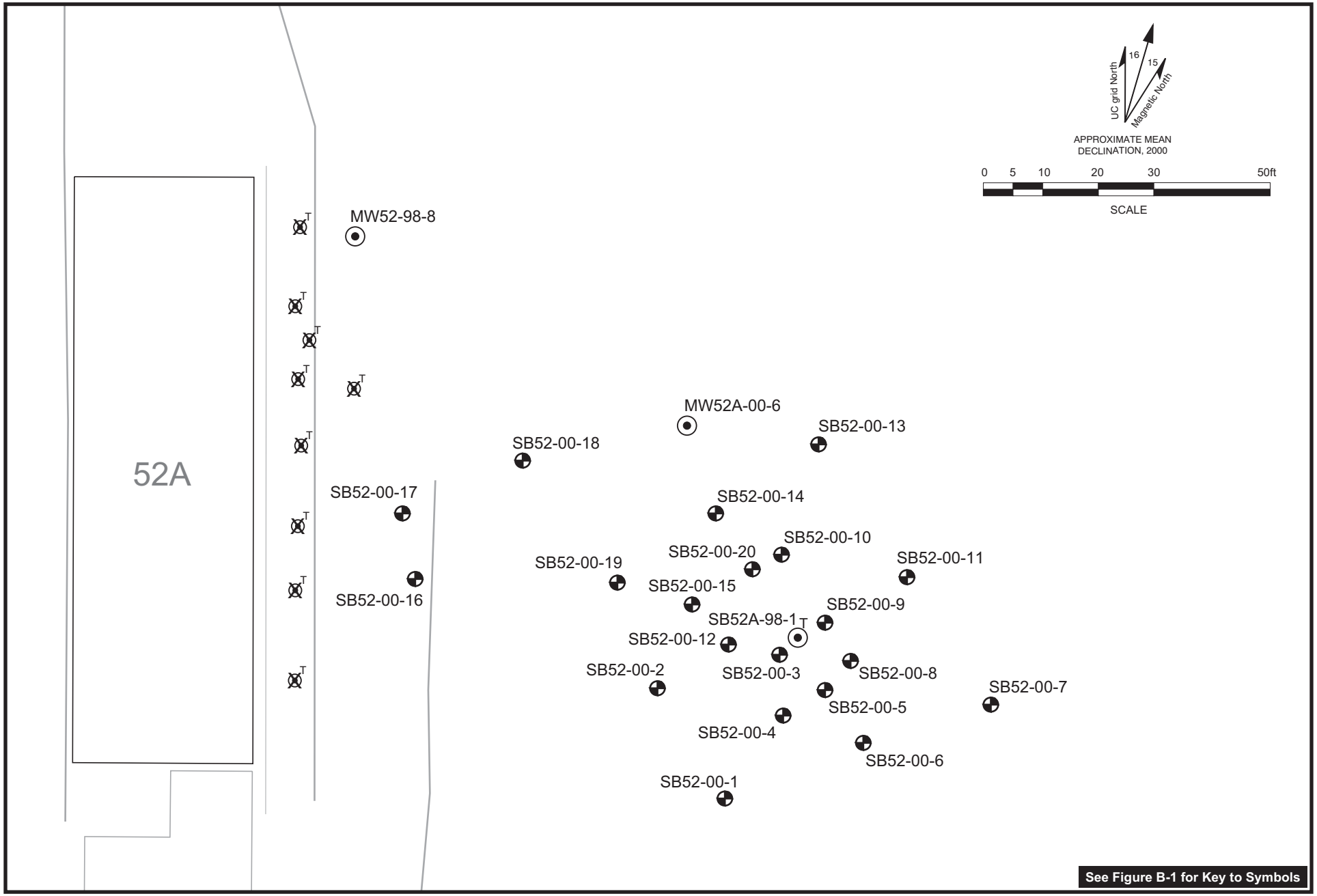
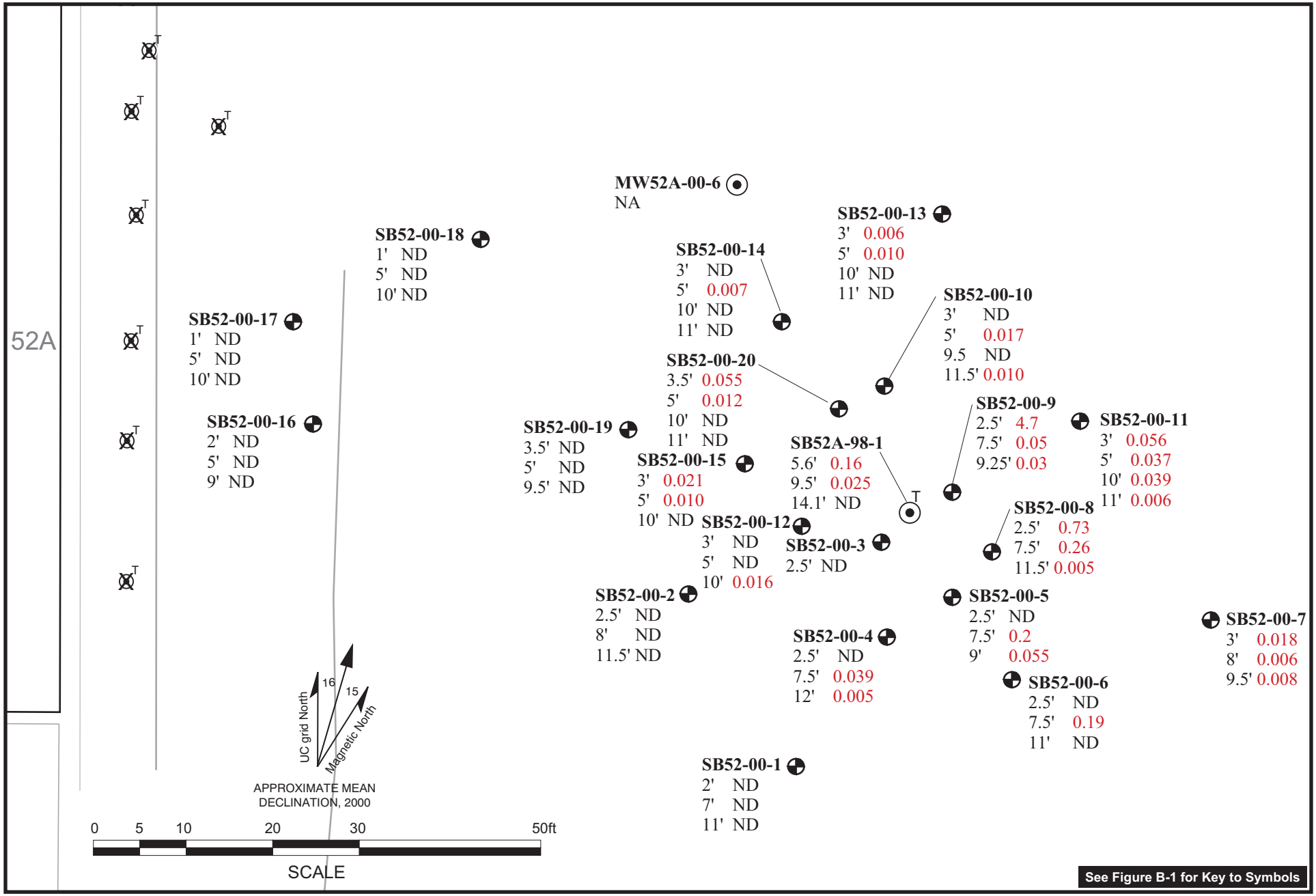


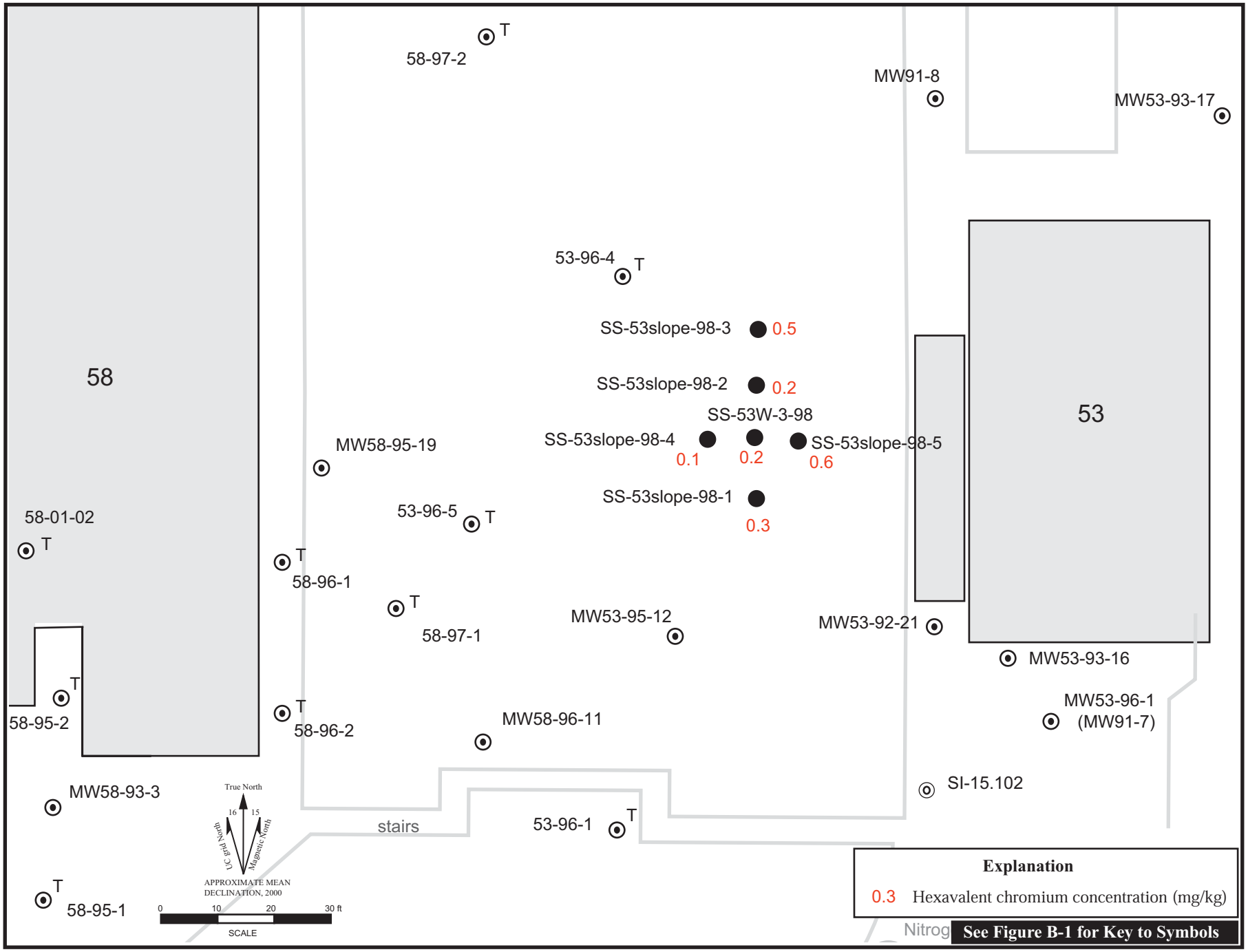
Figure B3.14-1. Locations of Soil Borings, Building 52A Potential Solvent Source Area.

B3.14-1B52A.ai
09/00



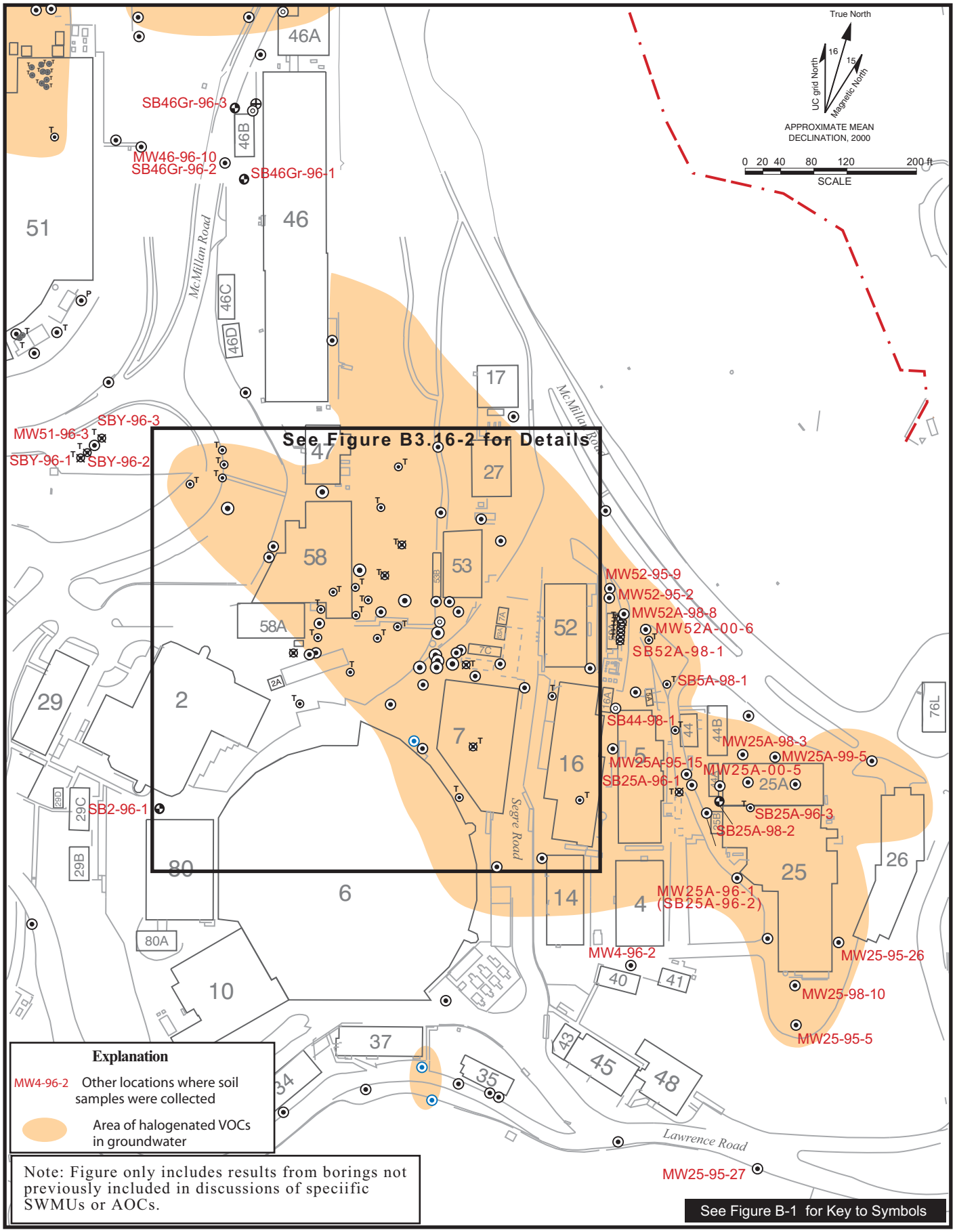
B3.14-2B52A.ai
09/00

Figure B3.14-2. Concentrations of PCE Detected in Soil (mg/kg), Building 52A Potential Solvent Source Area.



B3.15-1slopex.ai
09/00

Figure B3.15-1. Concentrations of Hexavalent Chromium Detected (mg/kg) in Shallow Soil Samples West of Building 53.



B3.16-1 OldTownOther.ai
09/00

Figure B3.16-1. Locations of Other Soil Borings, Old Town Area.

Figure B3.16-2. Locations of Other Soil Borings in Old Town Area (Detailed View).

B3.16-2borings.ai
09/00

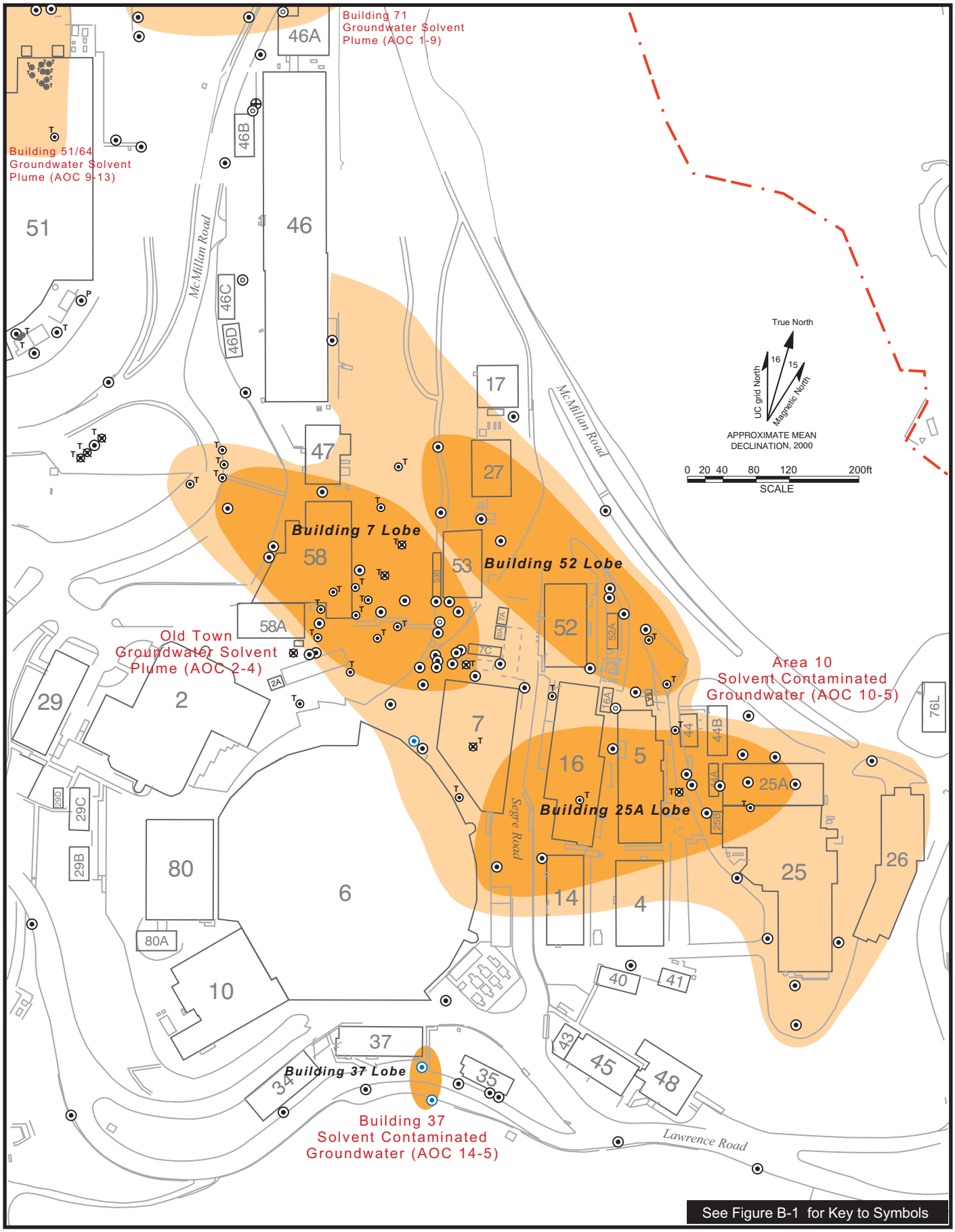


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Figure B4.1-1. Areas of Groundwater Contamination (Halogenated VOCs) in the Old Town Area.

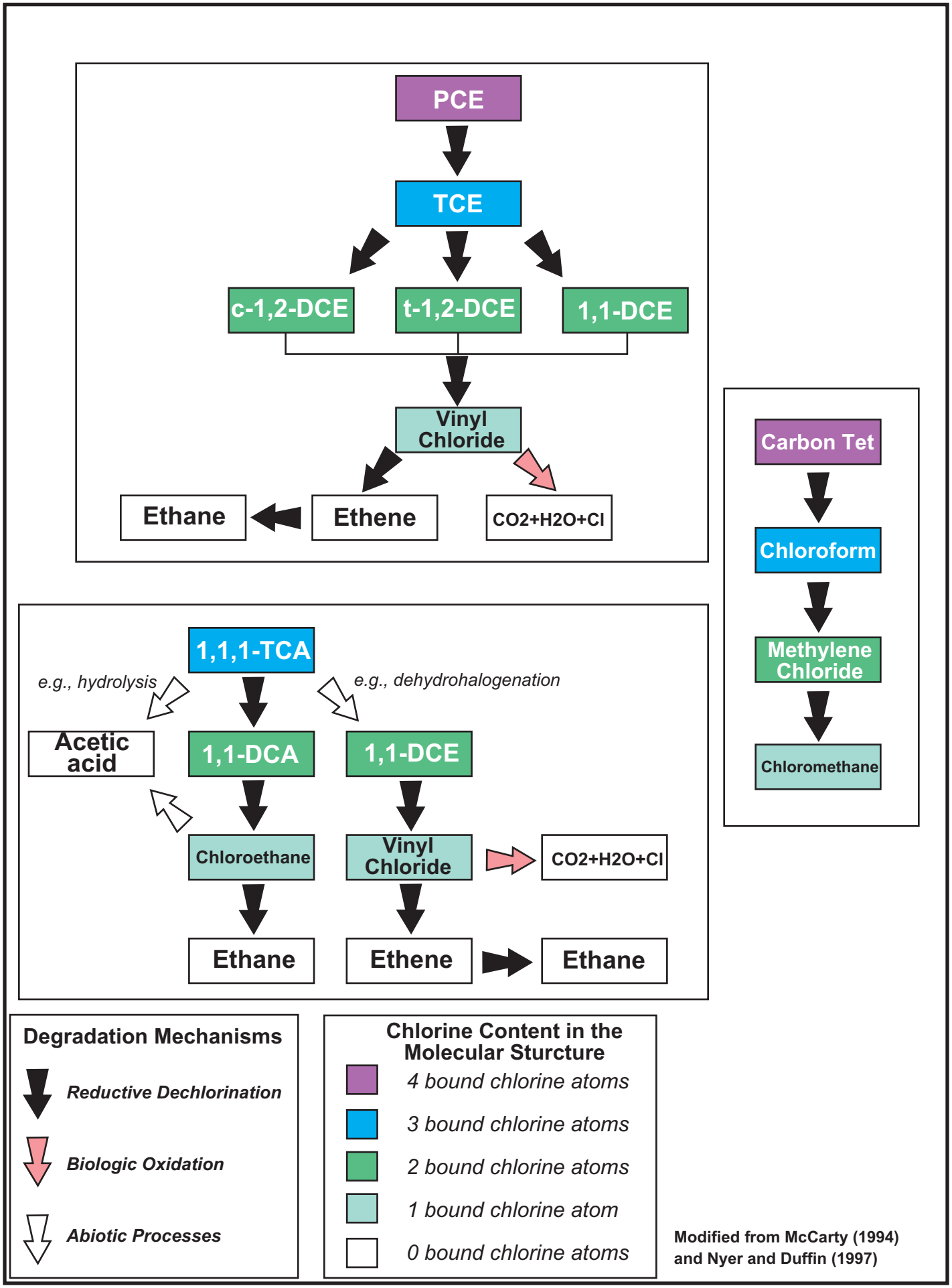
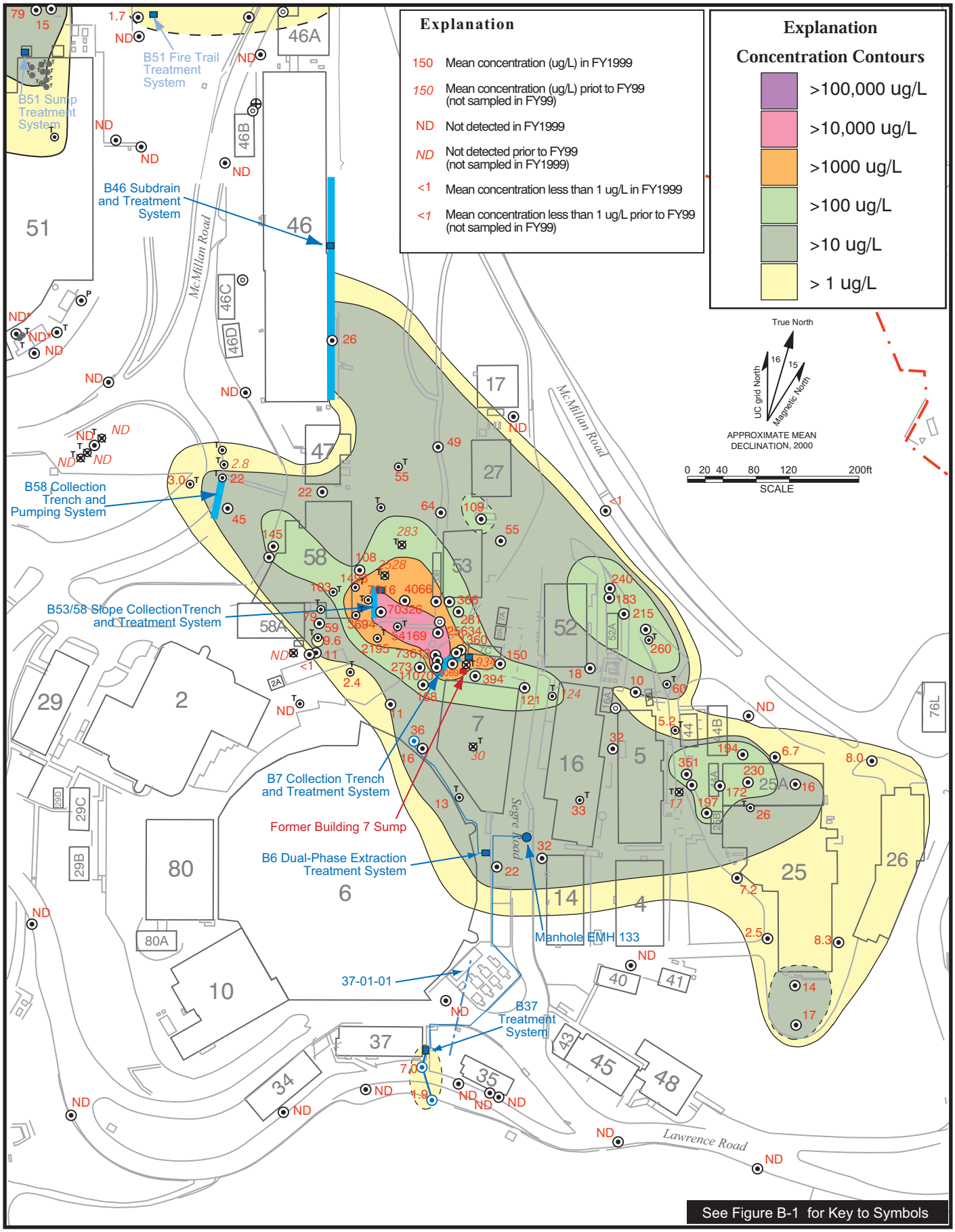


Figure B4.2-1. Generalized Degradation Pathways of Chlorinated Hydrocarbons.

B4.2-1 BioDegChart.ai
09/00



OldTown.ai
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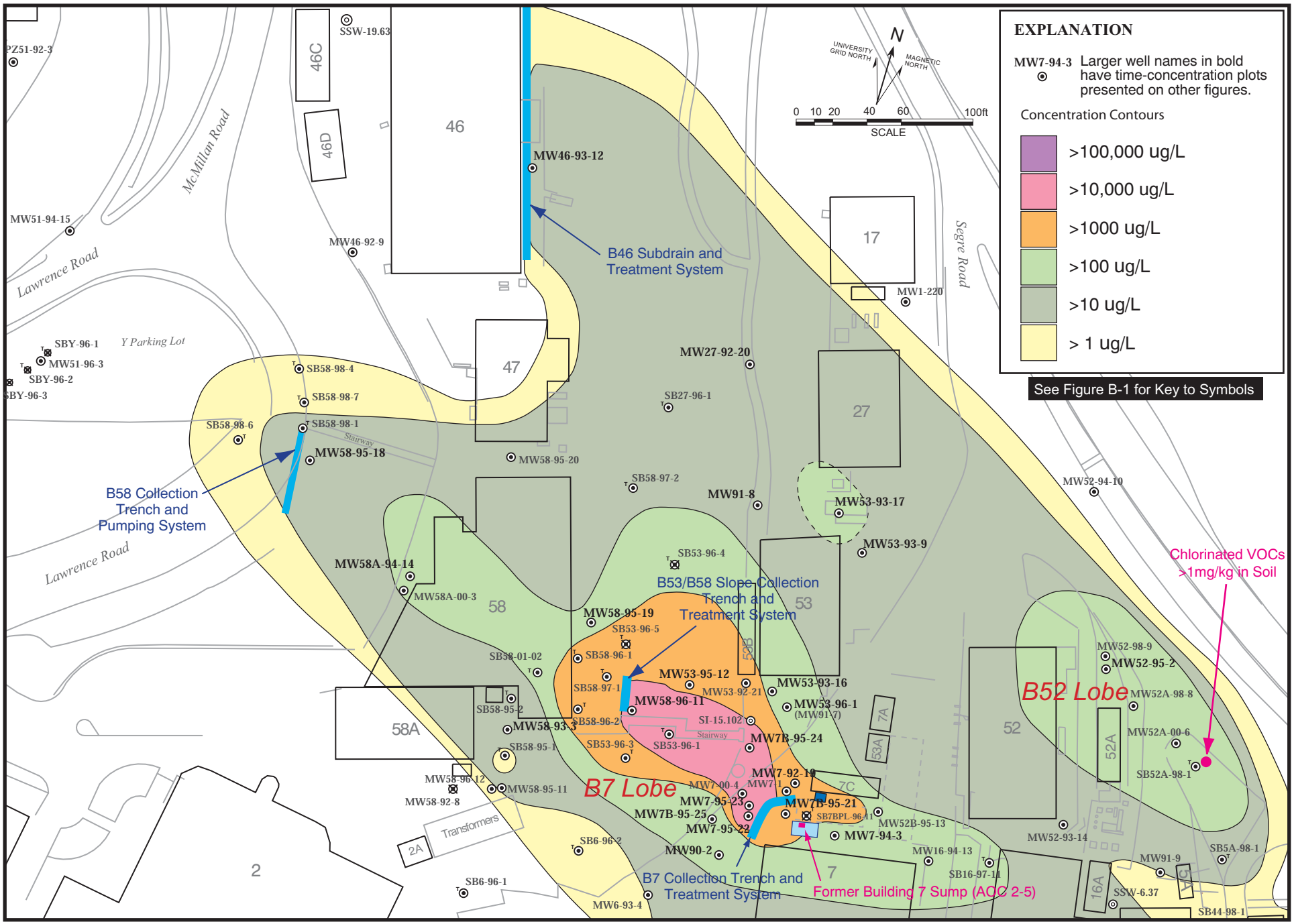
Figure B4.3-1a. Isoconcentration Contour Map (Plume Map): Mean Concentrations of Total Halogenated VOCs Near Water Table, Old Town Area, Fiscal Year 1999.



B4.3-1b DetailOTbase.ai
09/00

Figure B4.3-1b. Detailed Isoconcentration Contour Map (Plume Map): Mean Concentrations of Total Halogenated VOCs Near Water Table, Old Town Area, Fiscal Year 1999.

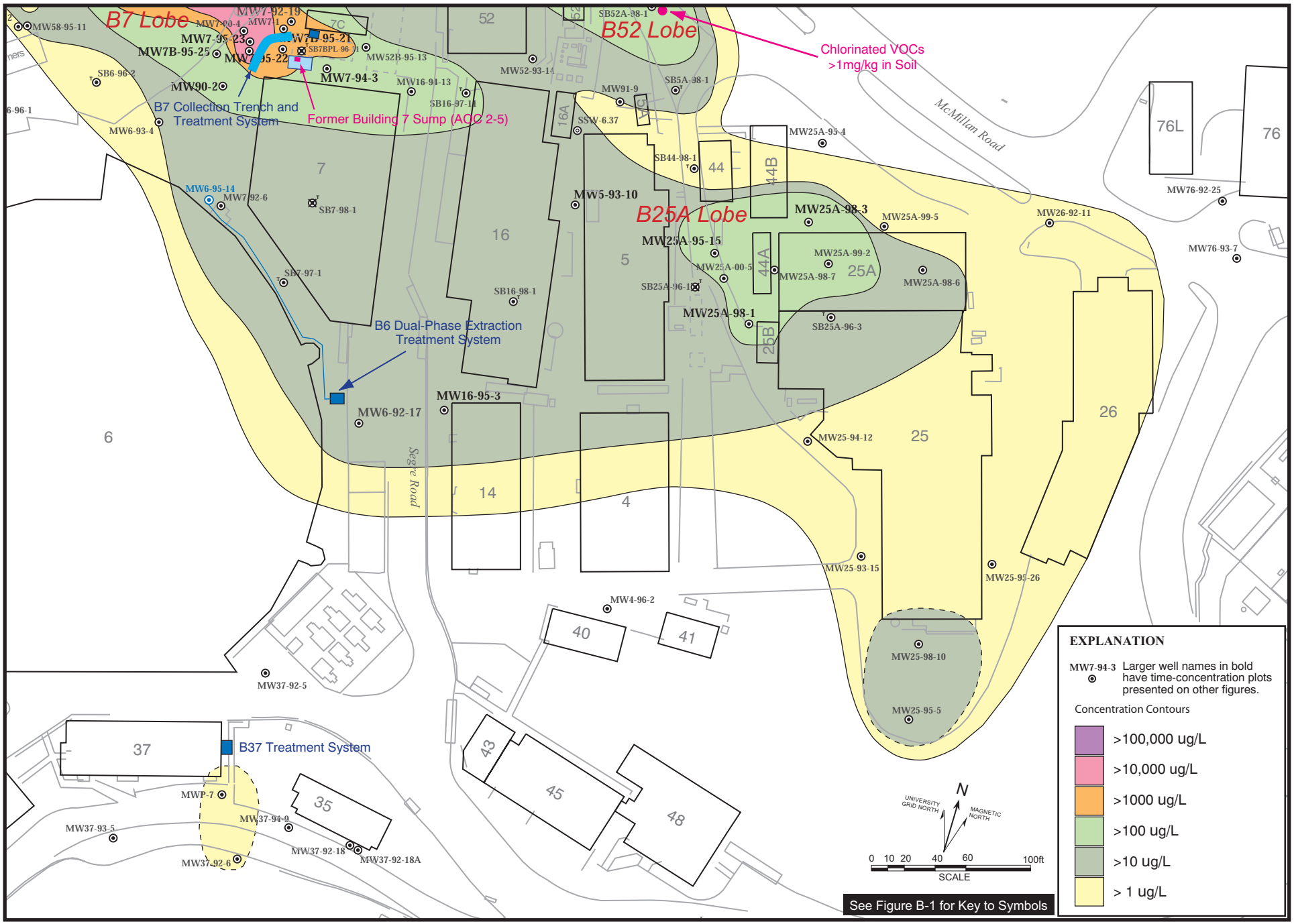


Figure B4.3-1c. Detailed Isoconcentration Contour Map (Plume Map): Mean Concentrations of Total Halogenated VOCs Near Water Table, Building 25A Area, Fiscal Year 1999.

B4.3-1c DetailArea10base.ai
09/00

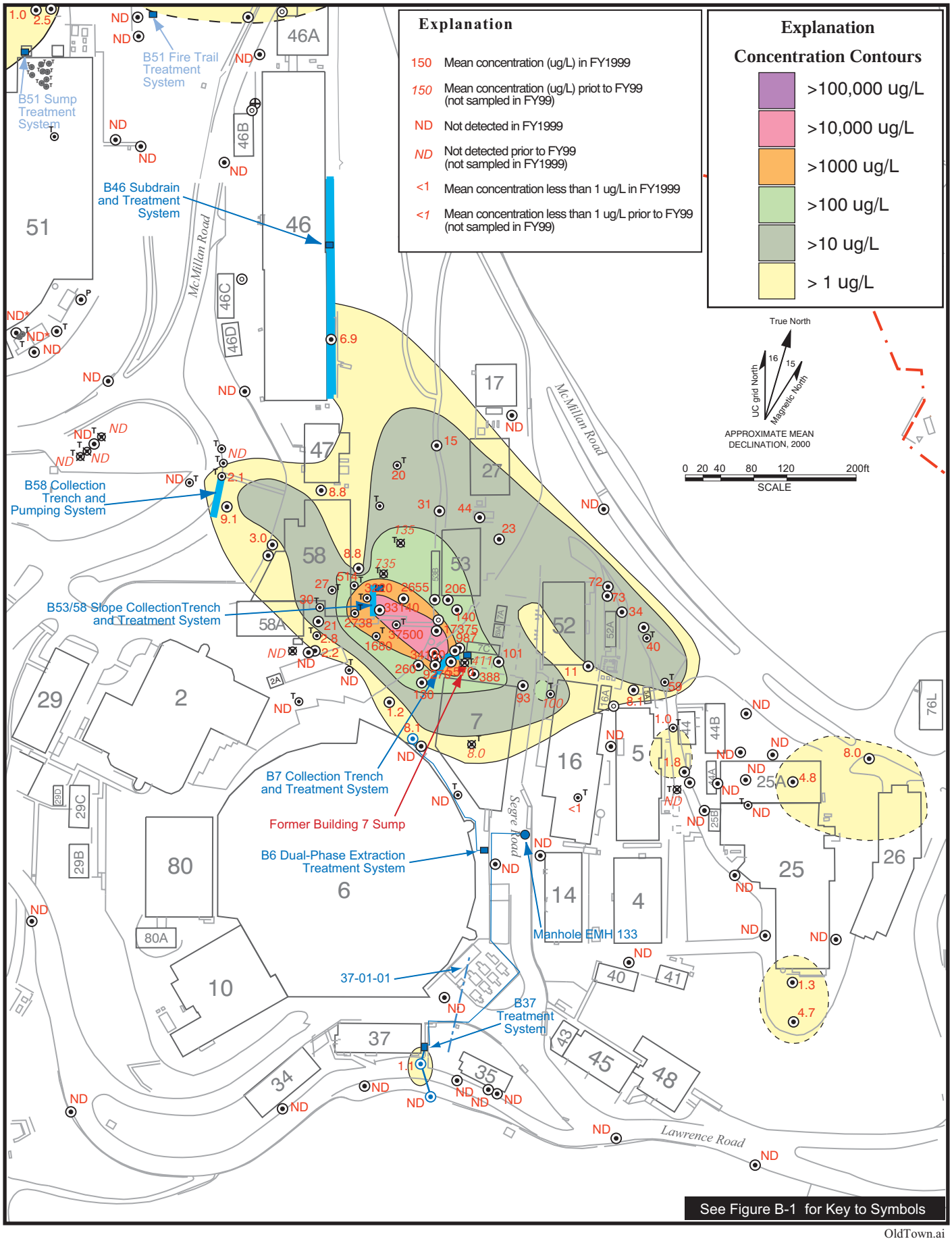


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Figure B4.3-2. Isoconcentration Contour Map (Plume Map): Mean Concentrations of PCE Near Water Table, Old Town Area, Fiscal Year 1999.

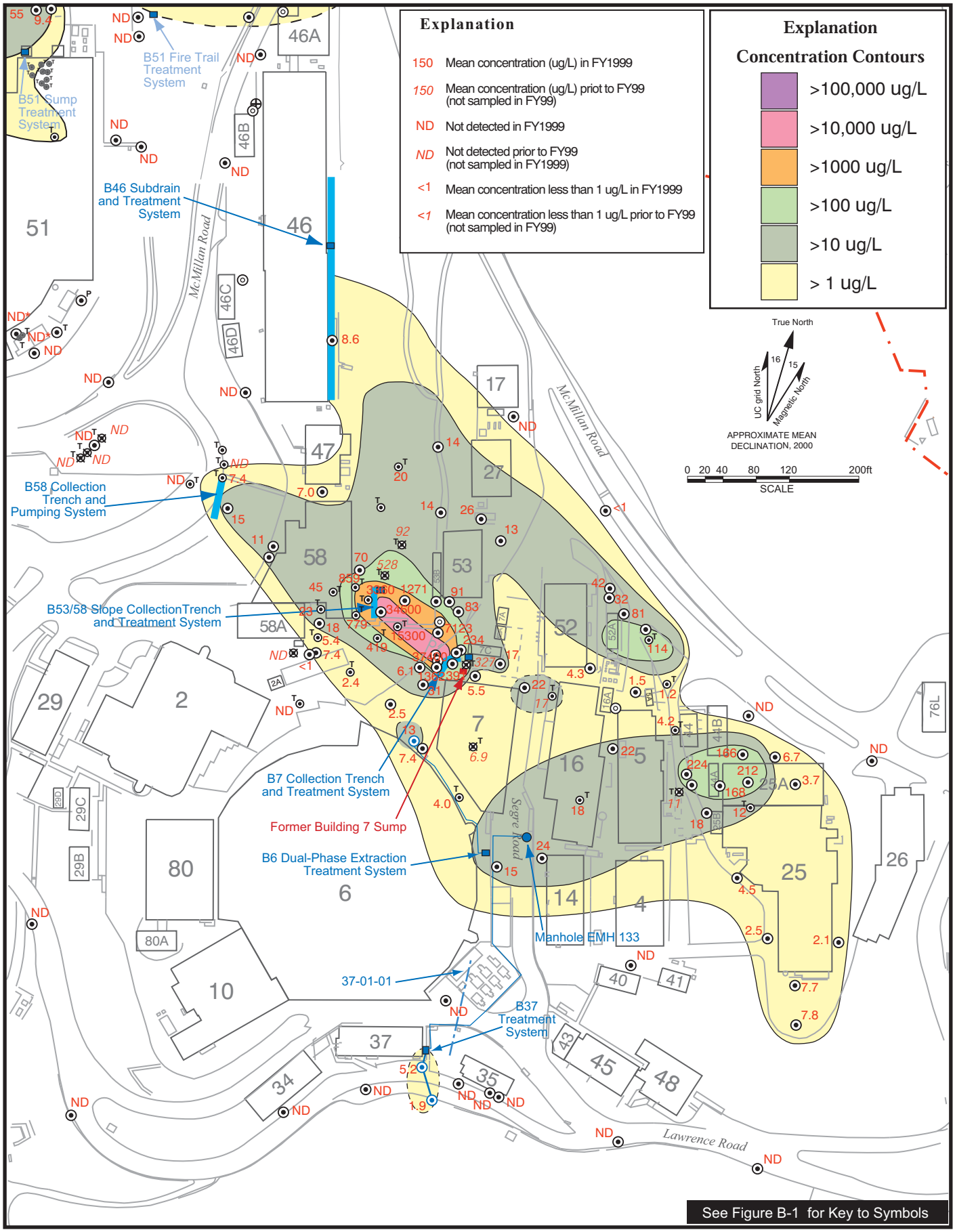

Figure B4.3-3. Isoconcentration Contour Map (Plume Map): Mean Concentrations of TCE Near Water Table, Old Town Area, Fiscal Year 1999.

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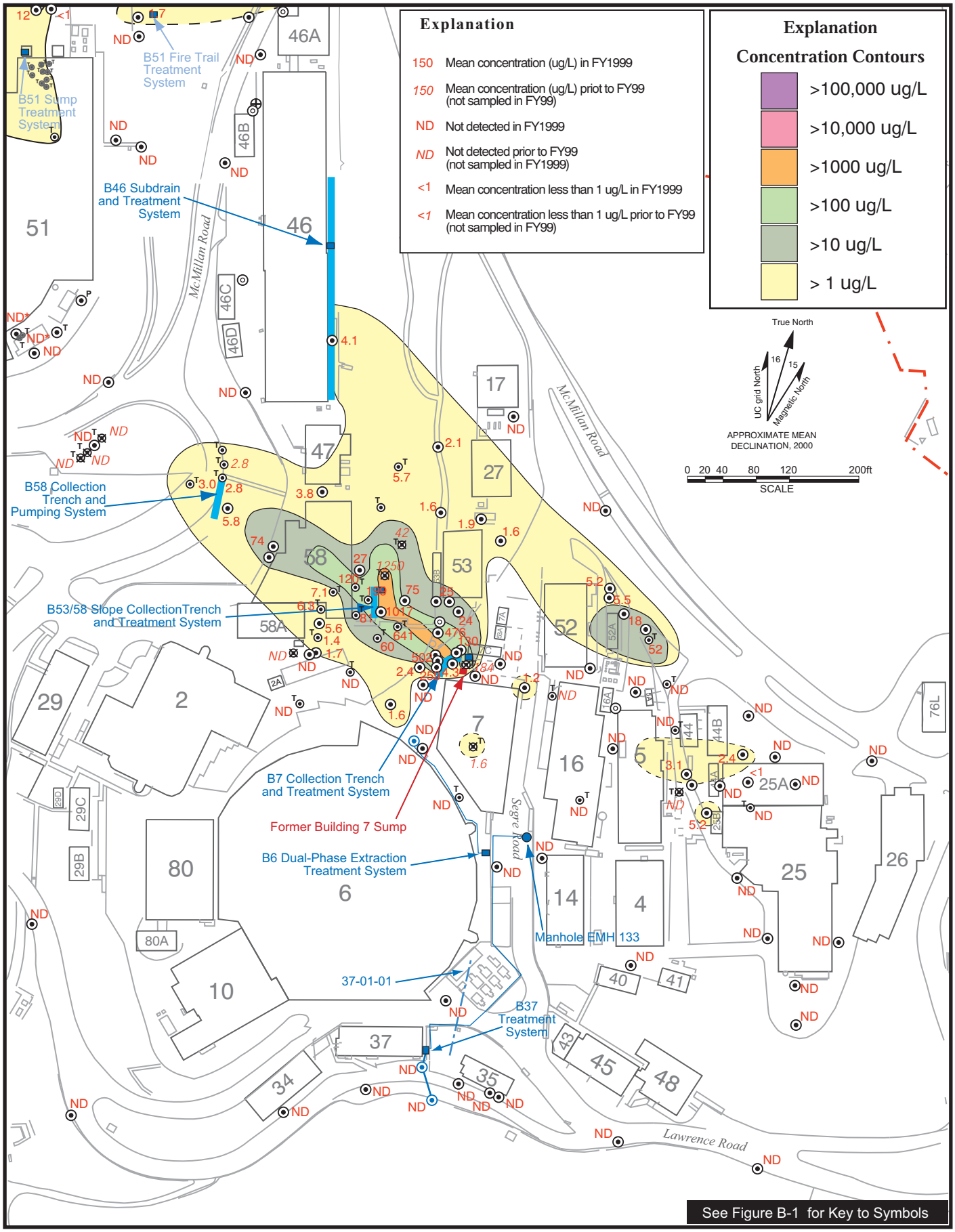

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Figure B4.3-4. Isoconcentration Contour Map (Plume Map): Mean Concentrations of cis-1,2-DCE Near Water Table, Old Town Area, Fiscal Year 1999.

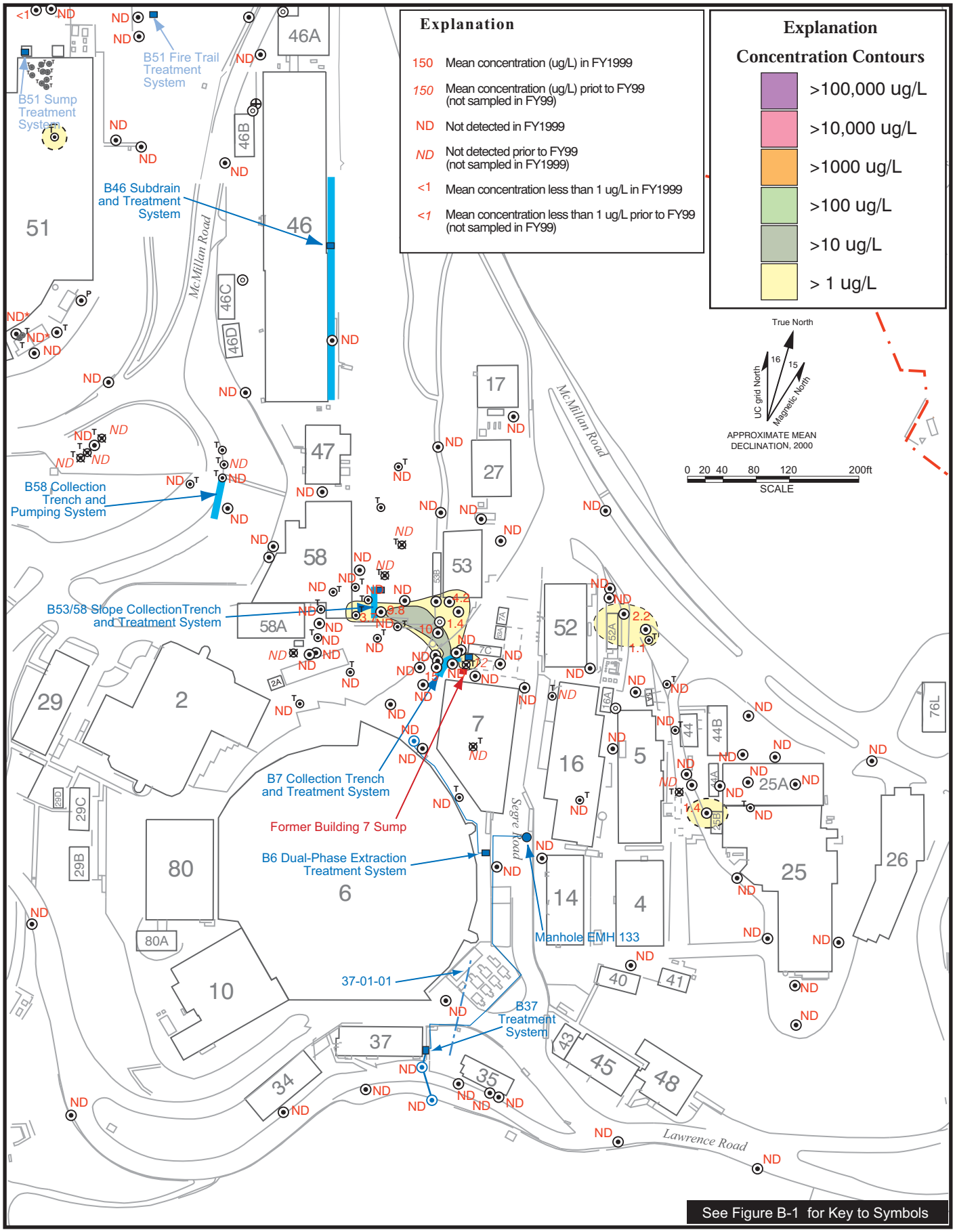

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Figure B4.3-5. Isoconcentration Contour Map (Plume Map): Mean Concentrations of trans-1,2-DCE Near Water Table, Old Town Area, Fiscal Year 1999.

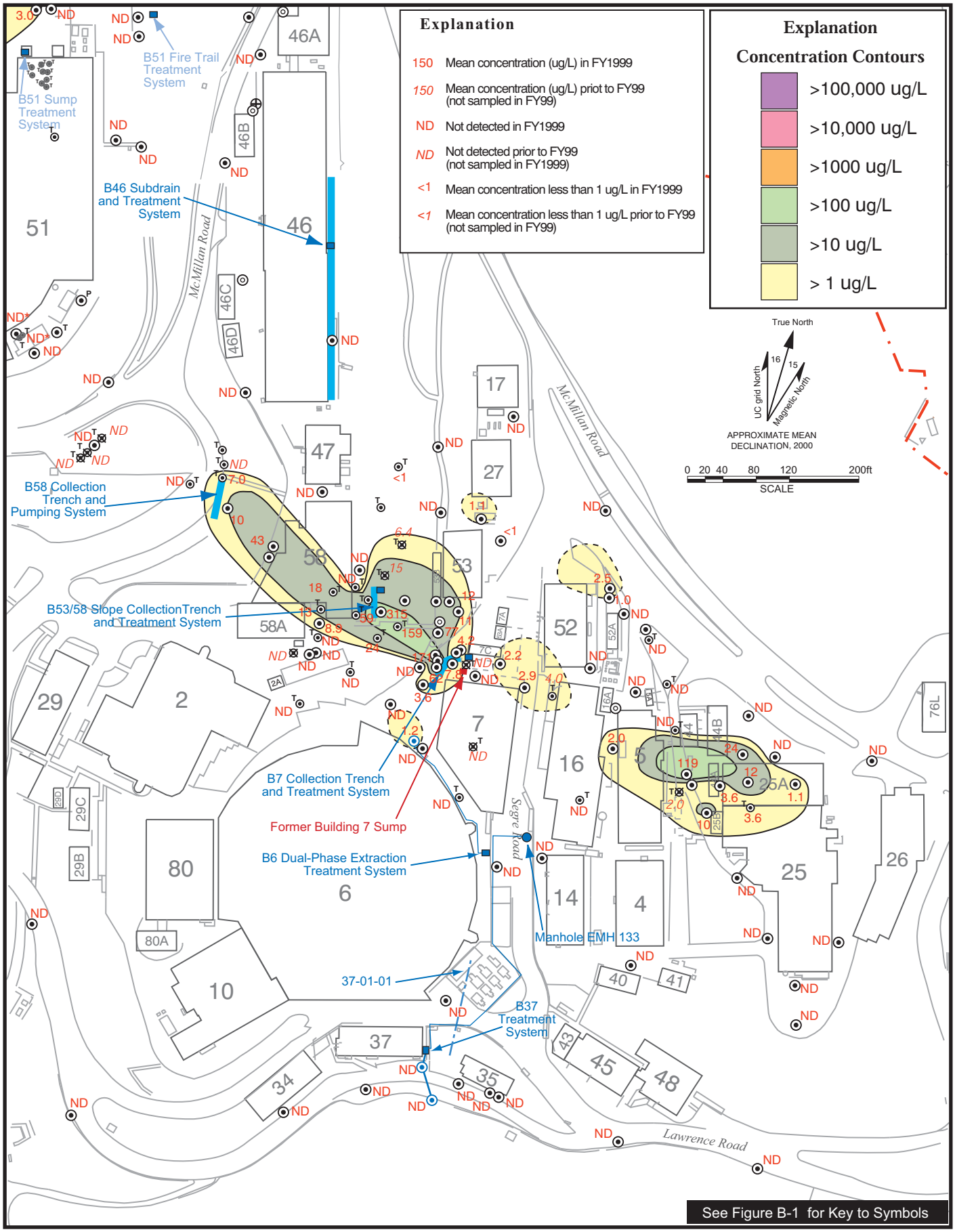

Figure B4.3-6. Isoconcentration Contour Map (Plume Map): Mean Concentrations of 1,1-DCE Near Water Table, Old Town Area, Fiscal Year 1999.

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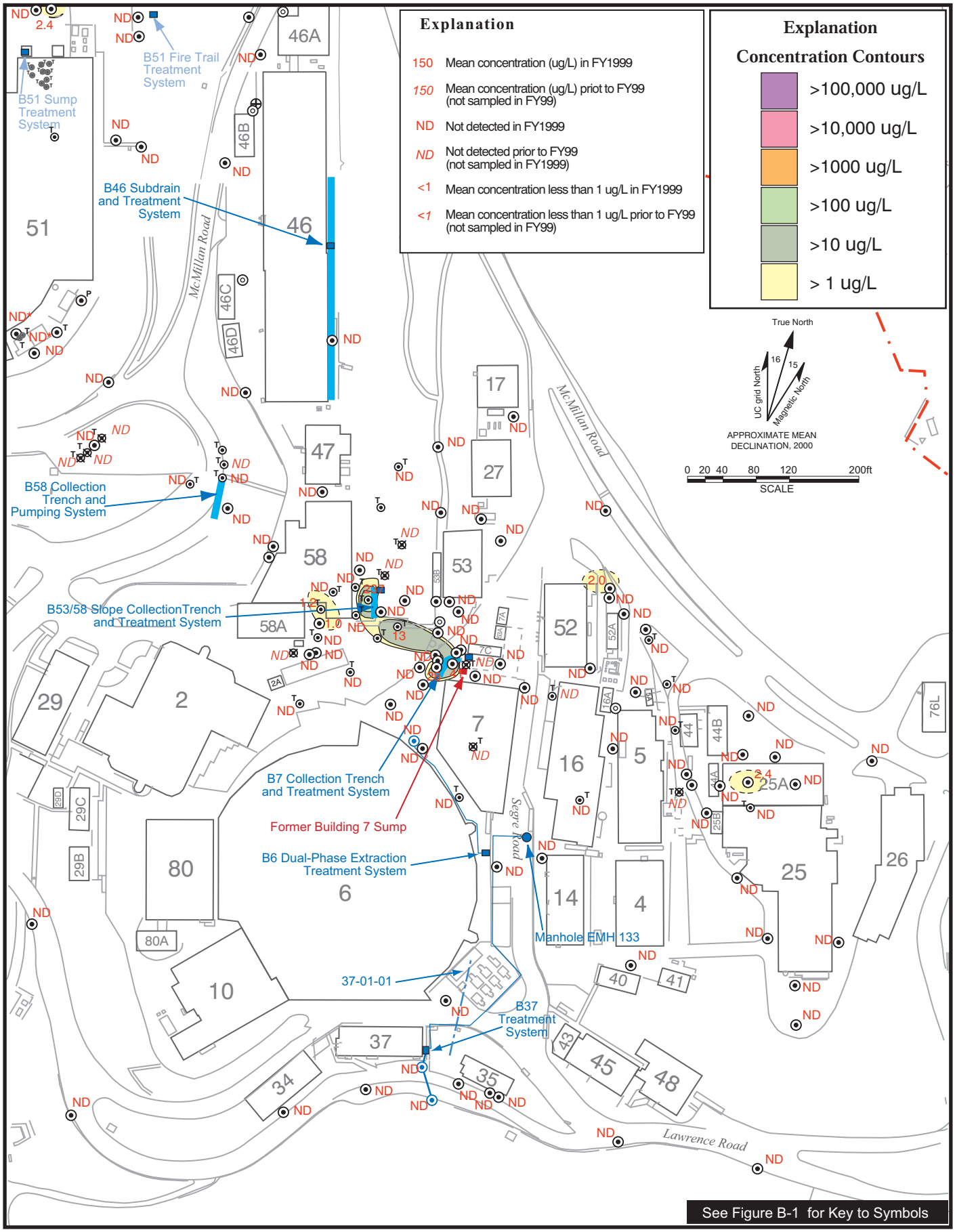

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Figure B4.3-7. Isoconcentration Contour Map (Plume Map): Mean Concentrations of 1,1,1-TCA Near Water Table, Old Town Area, Fiscal Year 1999.

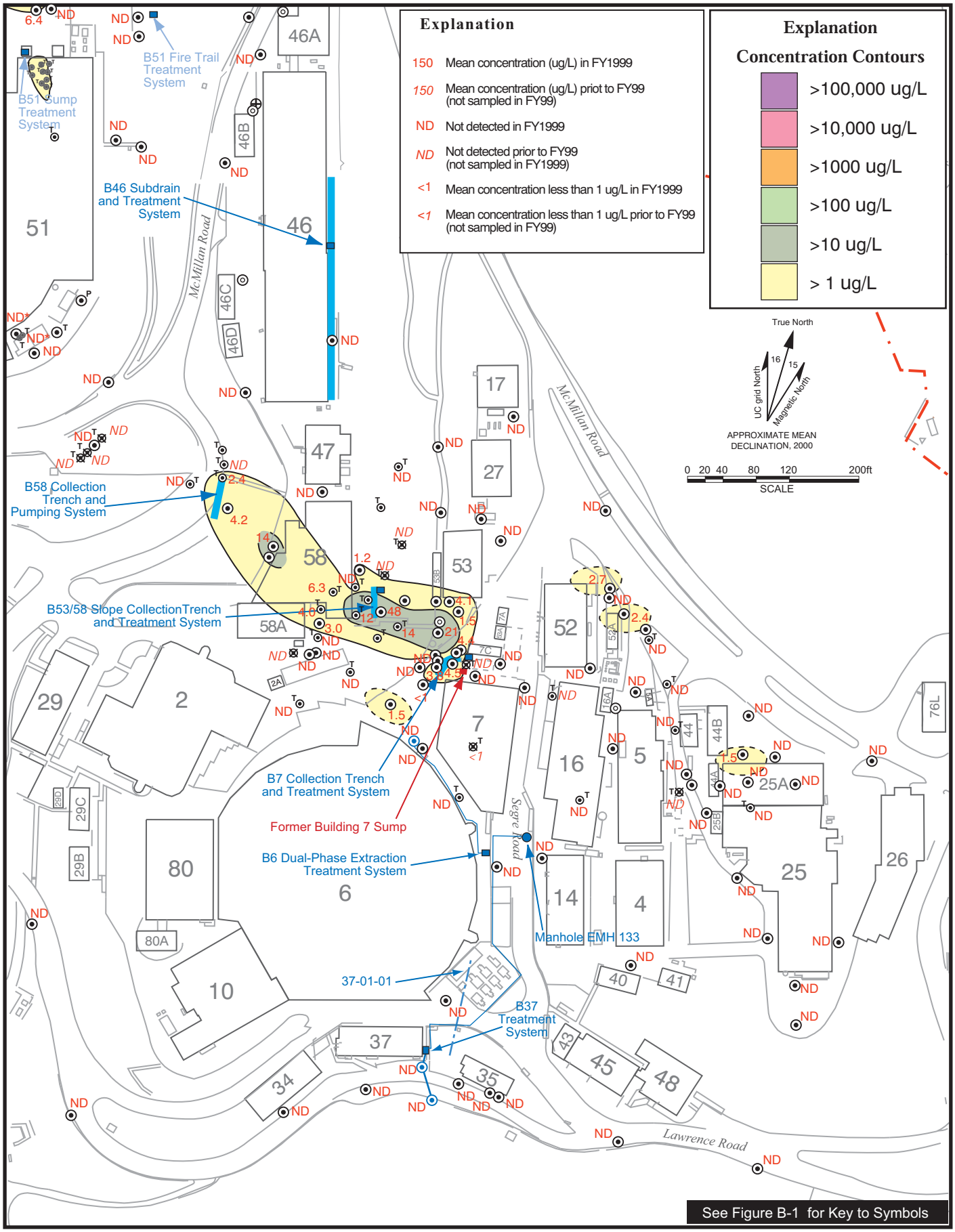

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Figure B4.3-8. Isoconcentration Contour Map (Plume Map): Mean Concentrations of 1,1-DCA Near Water Table, Old Town Area, Fiscal Year 1999.

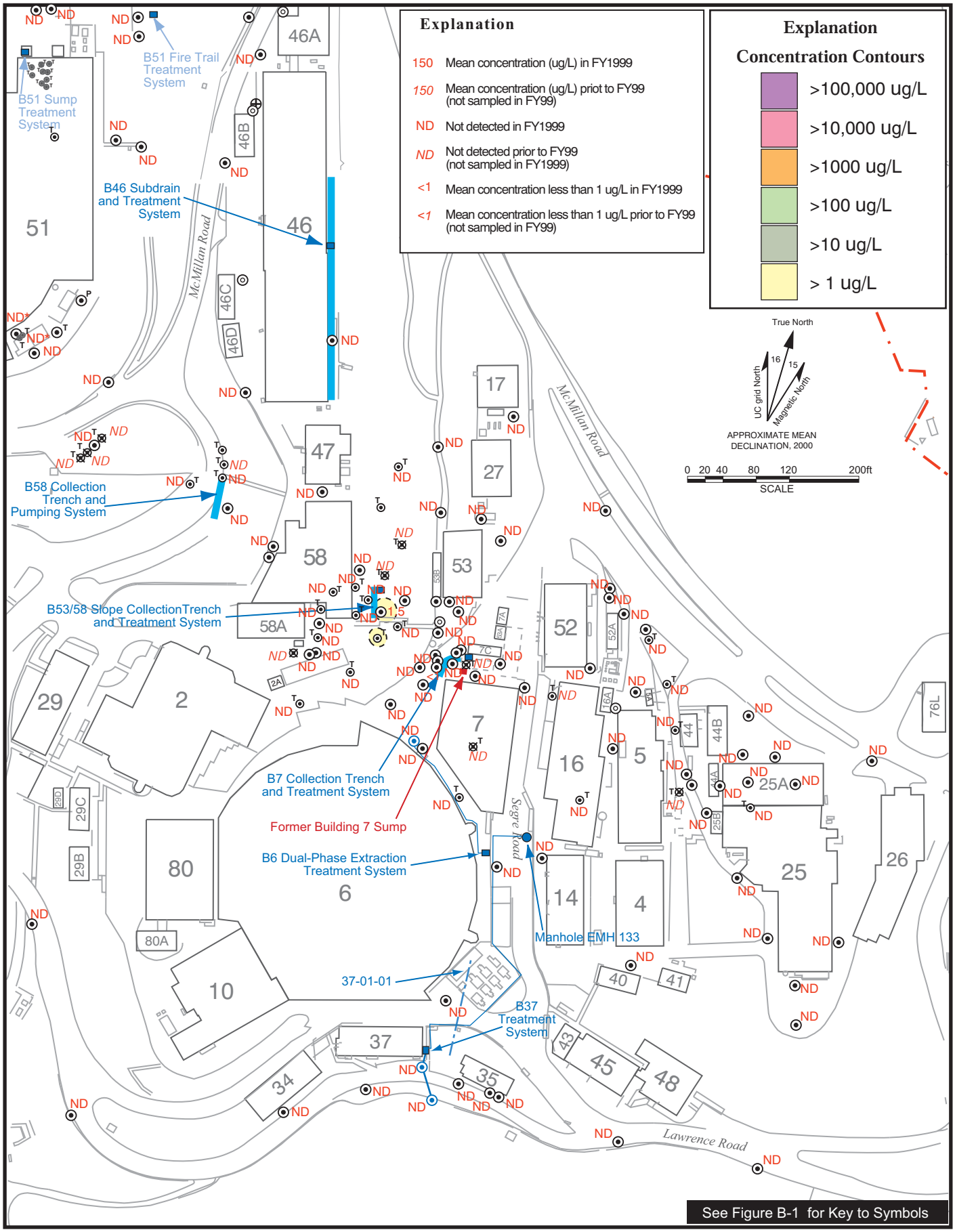

Figure B4.3-9. Isoconcentration Contour Map (Plume Map): Mean Concentrations of 1,2-DCA Near Water Table, Old Town Area, Fiscal Year 1999.

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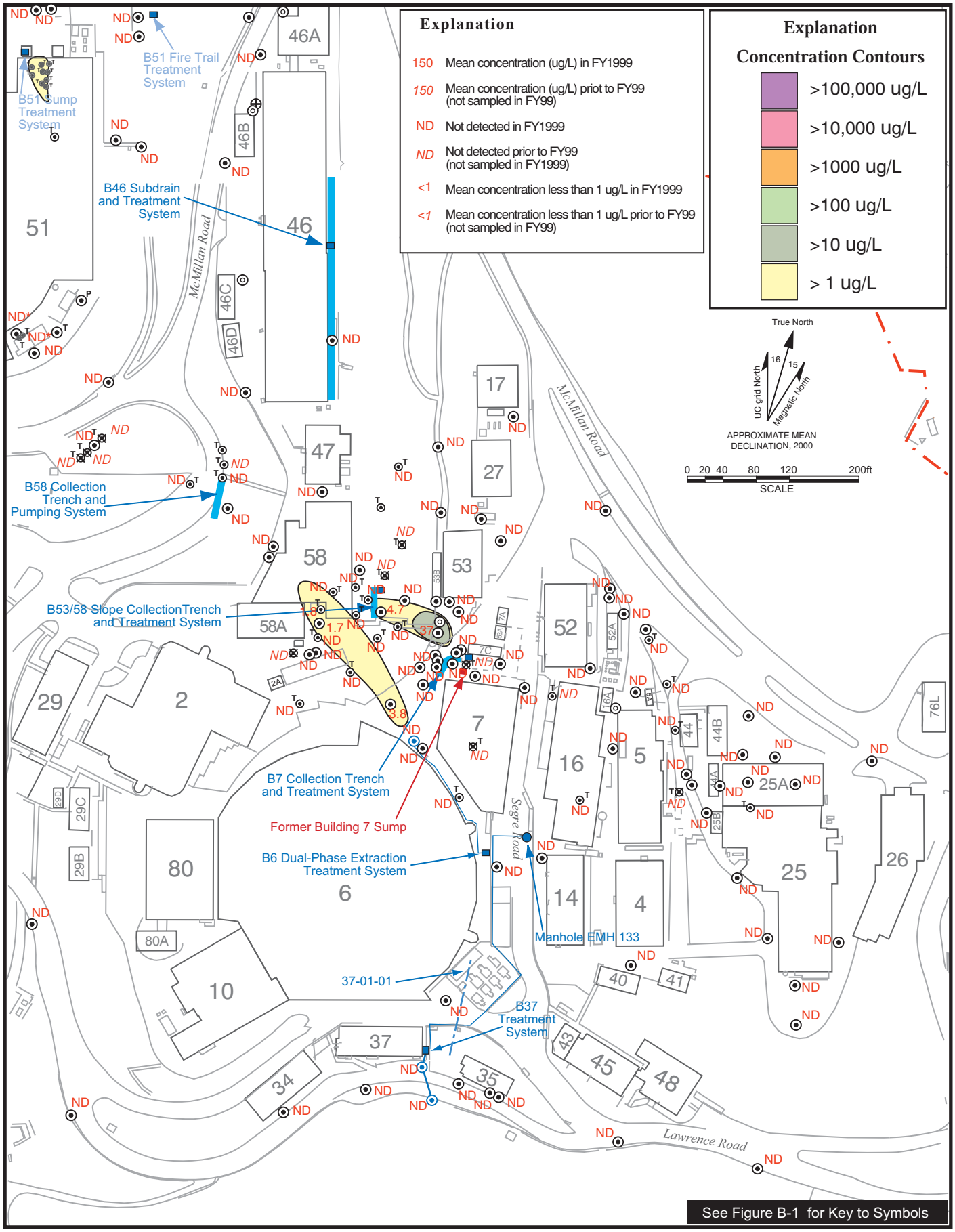

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Figure B4.3-10. Isoconcentration Contour Map (Plume Map): Mean Concentrations of Vinyl Chloride Near Water Table, Old Town Area, Fiscal Year 1999.

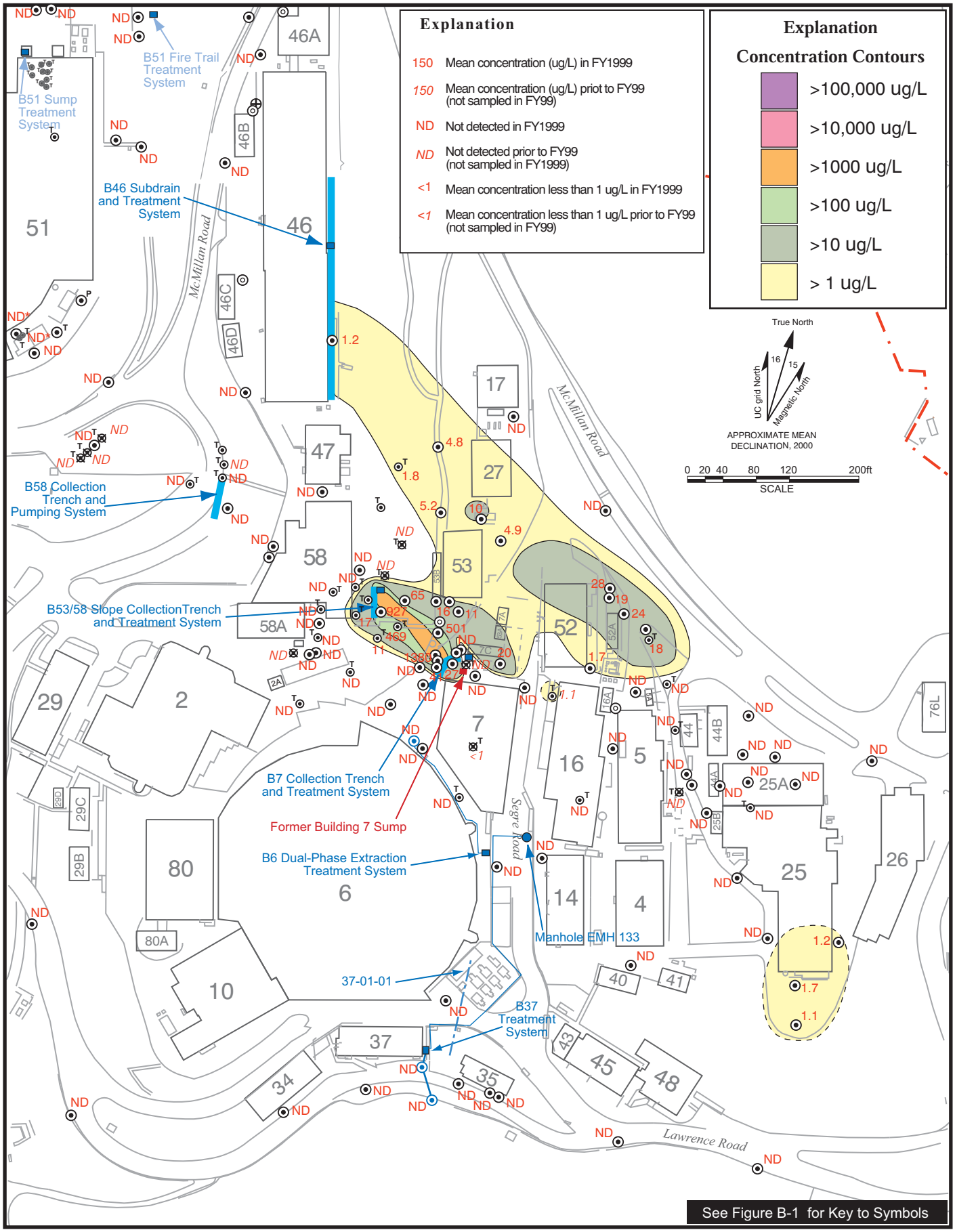

Figure B4.3-11. Isoconcentration Contour Map (Plume Map): Mean Concentrations of Carbon Tetrachloride Near Water Table, Old Town Area, Fiscal Year 1999.

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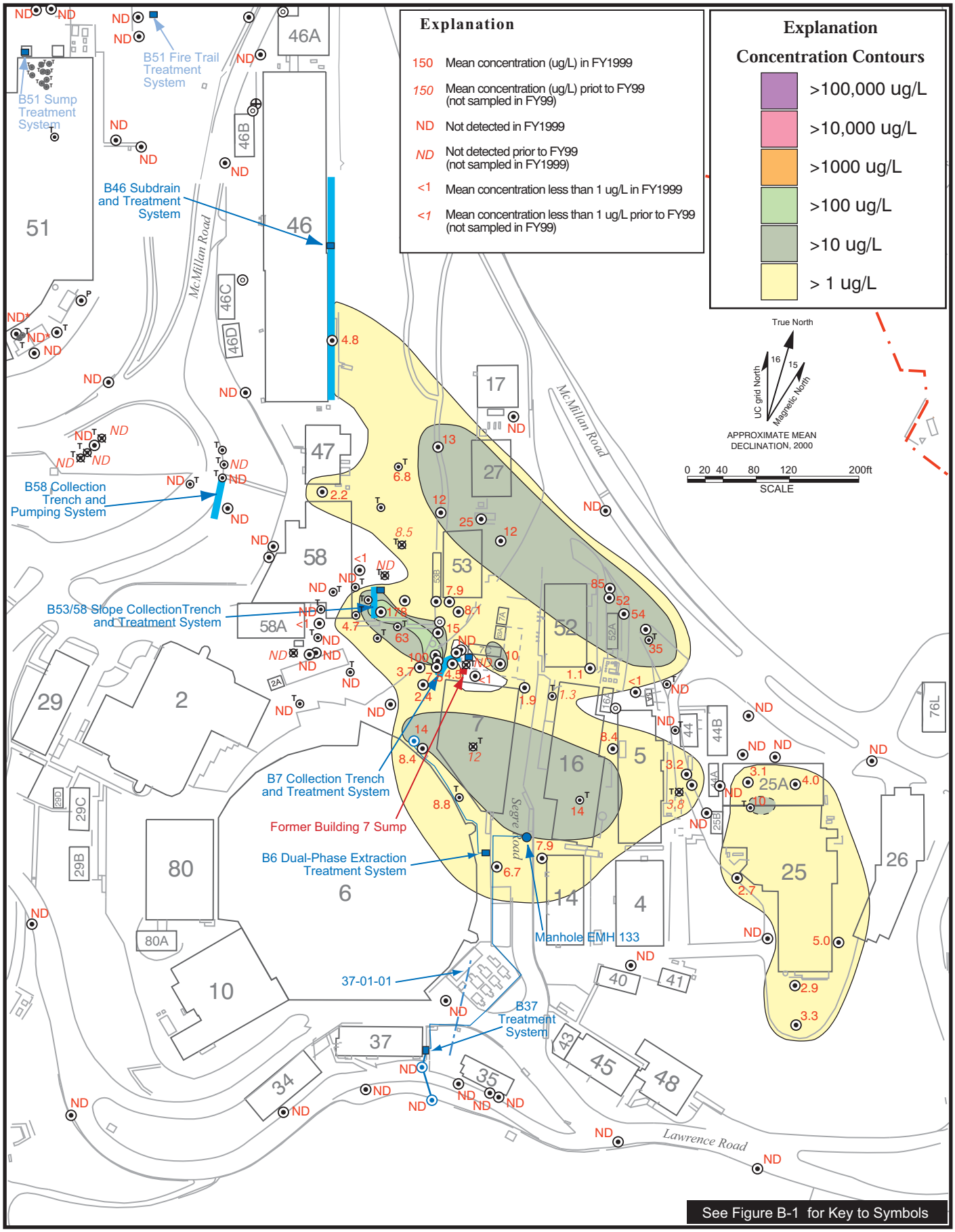

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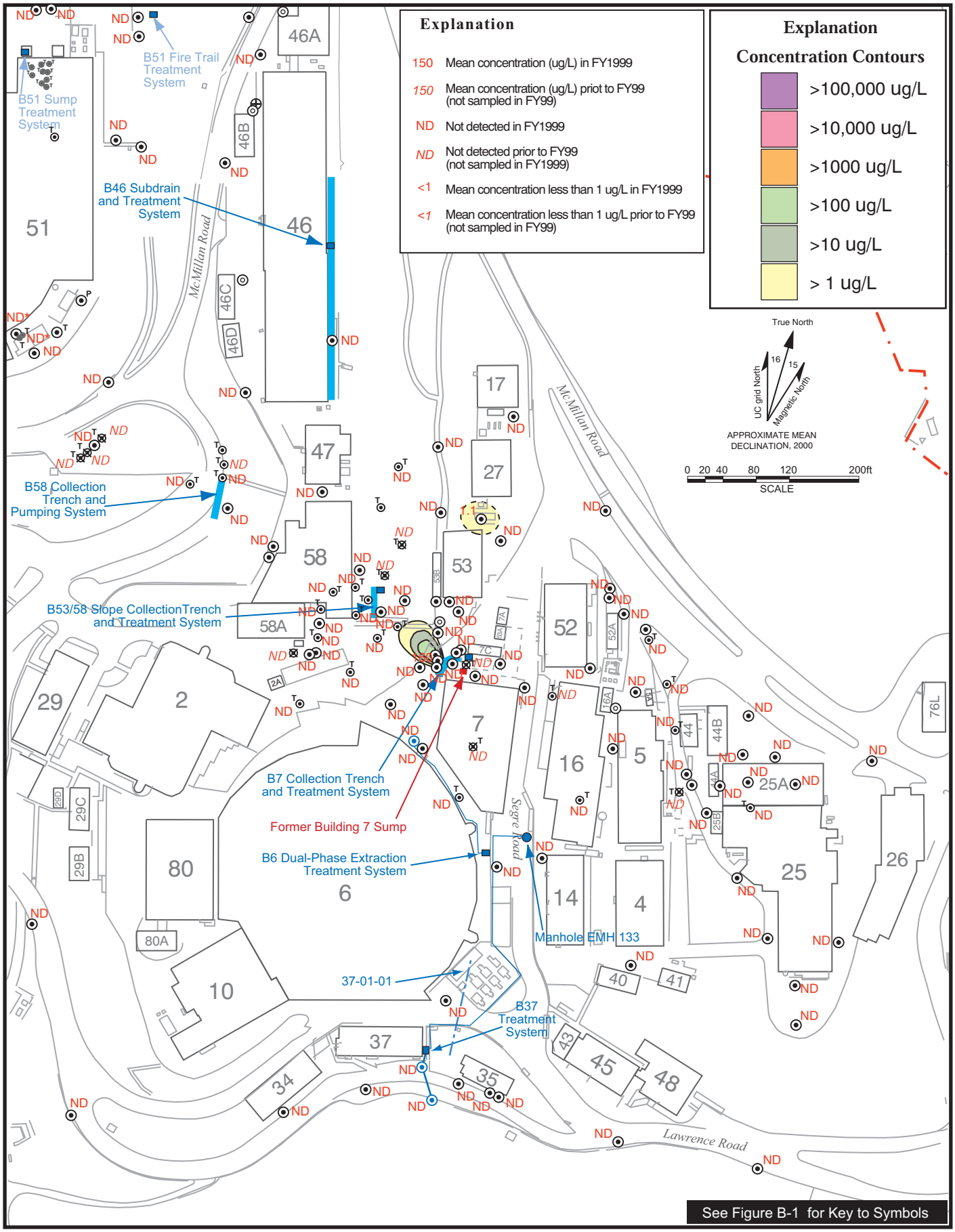
Figure B4.3-12. Isoconcentration Contour Map (Plume Map): Mean Concentrations of Chloroform Near Water Table, Old Town Area, Fiscal Year 1999.



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09/00

Figure B4.3-13. Isoconcentration Contour Map (Plume Map): Mean Concentrations of Methylene Chloride Near Water Table, Old Town Area, Fiscal Year 1999.

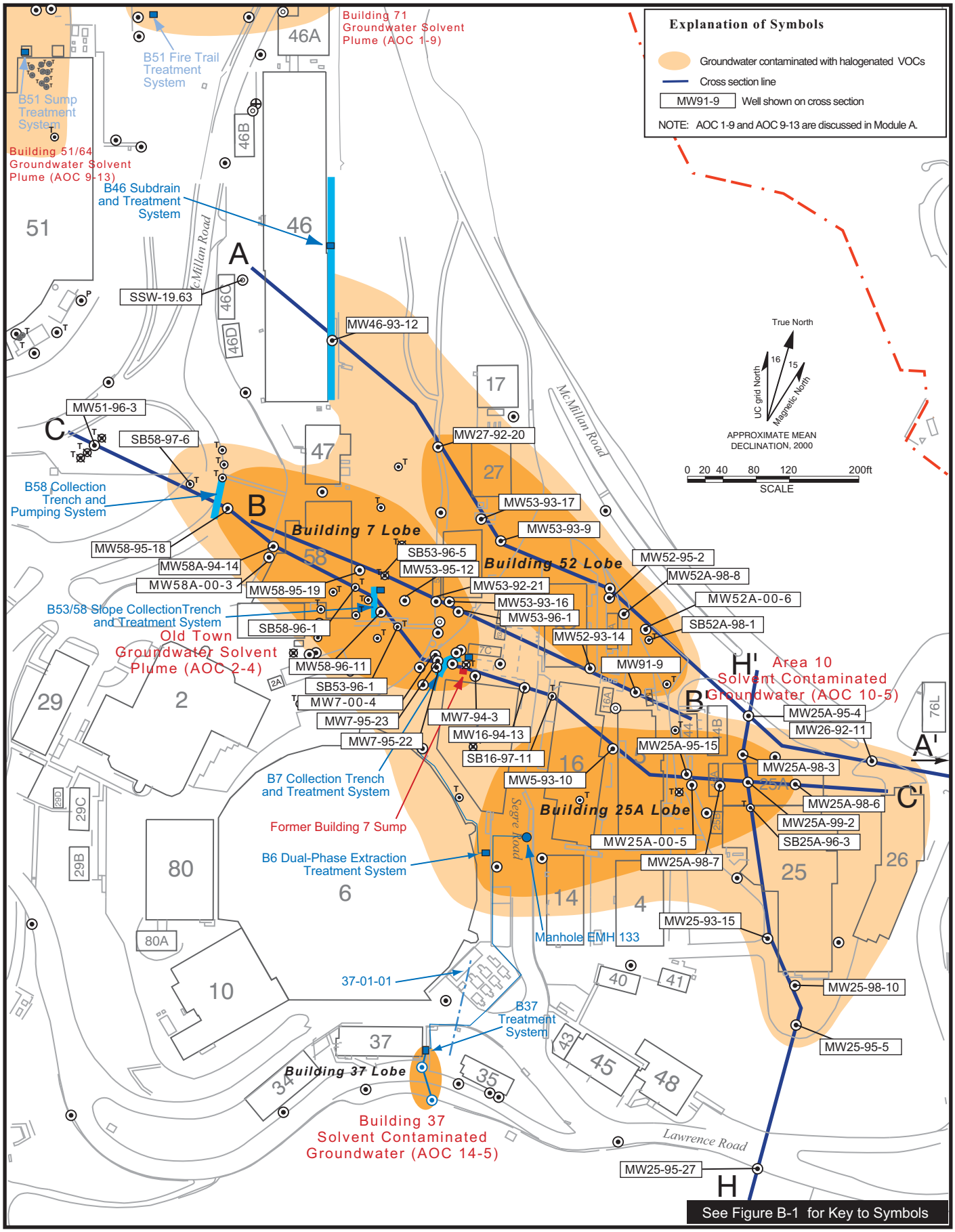

Figure B4.3-14. Cross Section Index Map of the Old Town Area.

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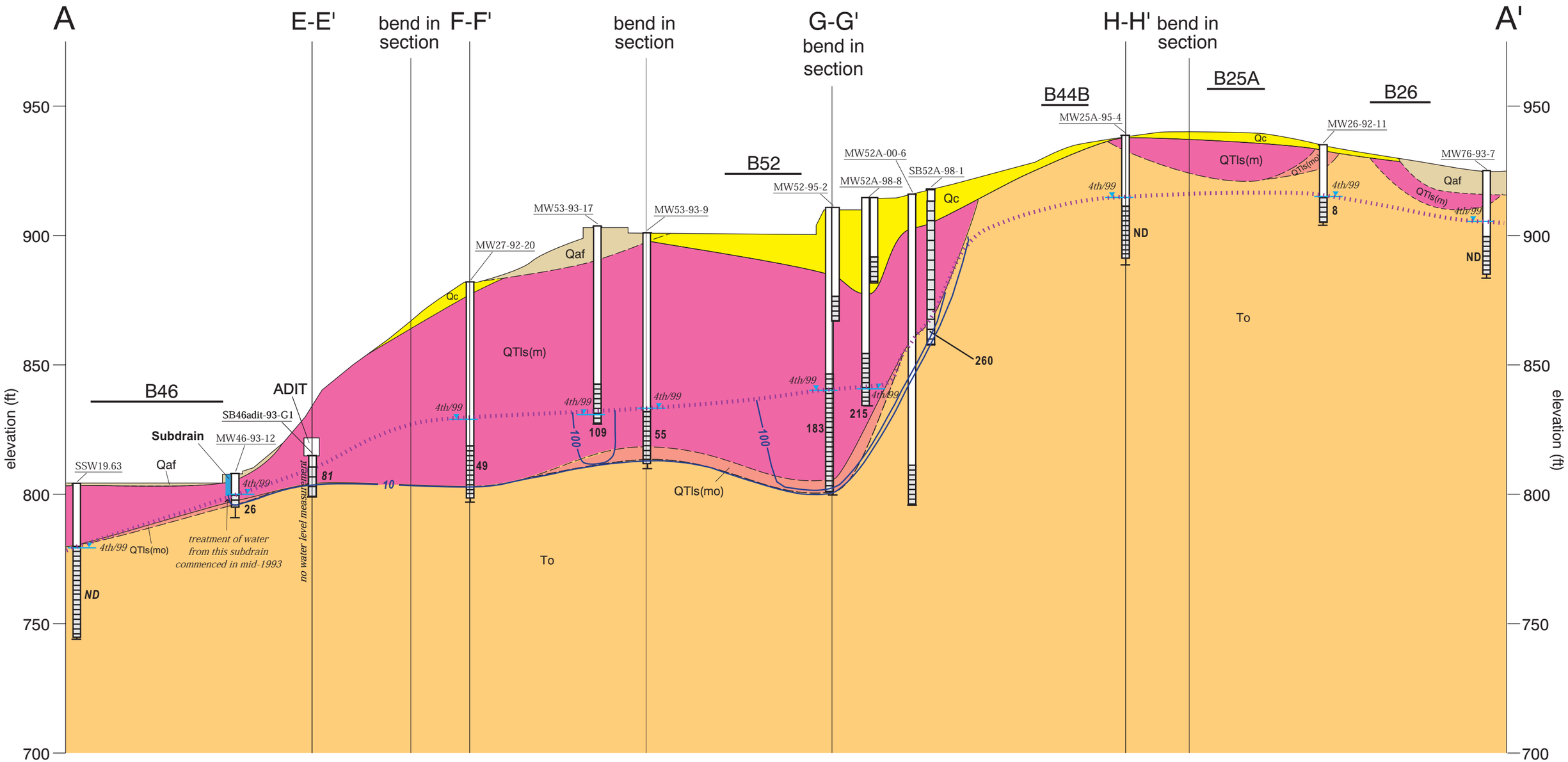


HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 approximate horizontal location of buildings on or near section

1,625 Mean Concentration (ug/L) of Total Halogenated VOCs (FY1999)

172 Concentrations (ug/L) shown in italics are from other than FY99

Water Table

100 Isoconcentration contour line (Total Halogenated VOCs)

tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Wells with concentrations from 3rd Quarter FY93: SB46adit-93-G1

Wells with concentrations from 3rd Quarter FY97: SSW-19.63

Contact
dashed where approximately located

Fault
dashed where approximately located; queried where inferred

generalized apparent dip

GROUNDWATER MONITORING WELL

MW58-93-3 — Well name; Well casing; 4th/99; Water level with quarter of measurement; Screened interval; Total boring depth

TEMPORARY GROUNDWATER SAMPLING POINT

SB53-96-5 — Well name; Well casing; 4th/99; Water level with quarter of measurement; Screened interval; Total boring depth

SOIL BORING

Boring name HLA9.172; Total boring depth

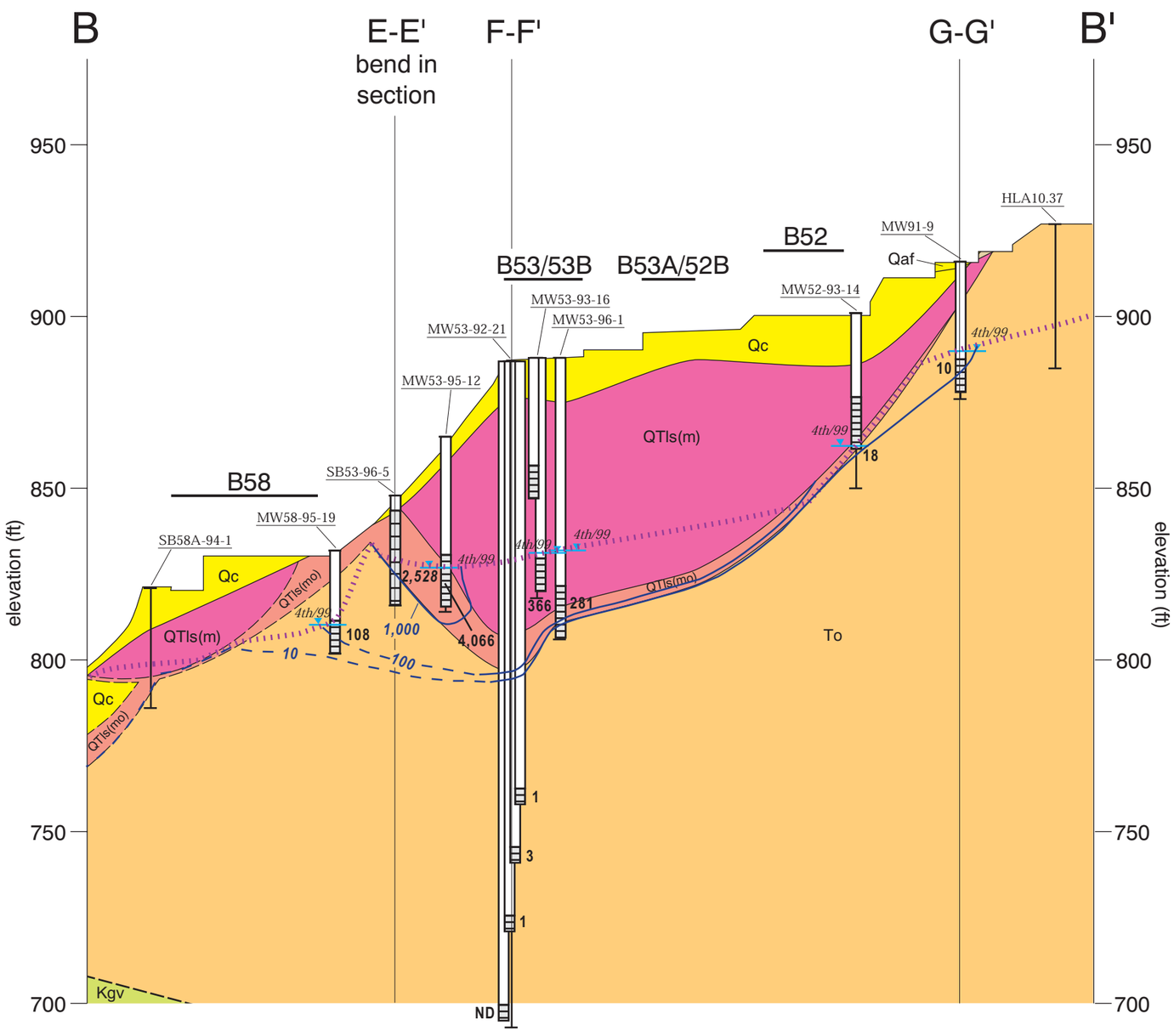
SOIL GAS MONITORING WELL

Well casing; Screened interval

revision: 9/27/2000

Figure B4.3-15. Old Town Area Hydrogeologic Cross Section A-A'.

B4.3-15OTSecAA'.ai
09/00



HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 — approximate horizontal location of buildings on or near section

1,625	Mean Concentration (ug/L) of Total Halogenated VOCs (FY1999)
172	Concentrations (ug/L) shown in italics are from other than FY99
	Water Table
—100—	Isoconcentration contour line (Total Halogenated VOCs)

tinted box indicates unit appears in section

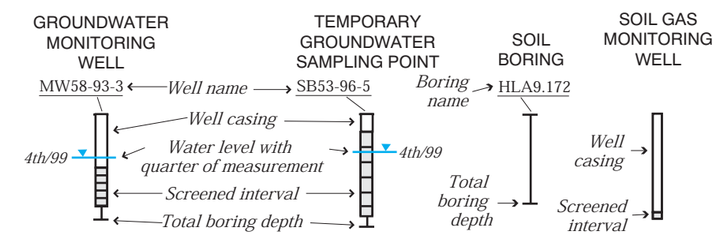
Qaf	artificial fill
Qc	colluvium (may locally include alluvium)
Qdb	debris flow deposits
QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks
QTls(mo)	Paleolandslide Deposit (Mixed Unit)
Tm	Moraga Formation
To	Orinda Formation
Tsp	San Pablo Group
Tc	Claremont Formation
Kgv	Great Valley Group

Wells with concentrations from 3rd Quarter FY98: SB53-96-5

Contact
dashed where approximately located

Fault
dashed where approximately located; queried where inferred

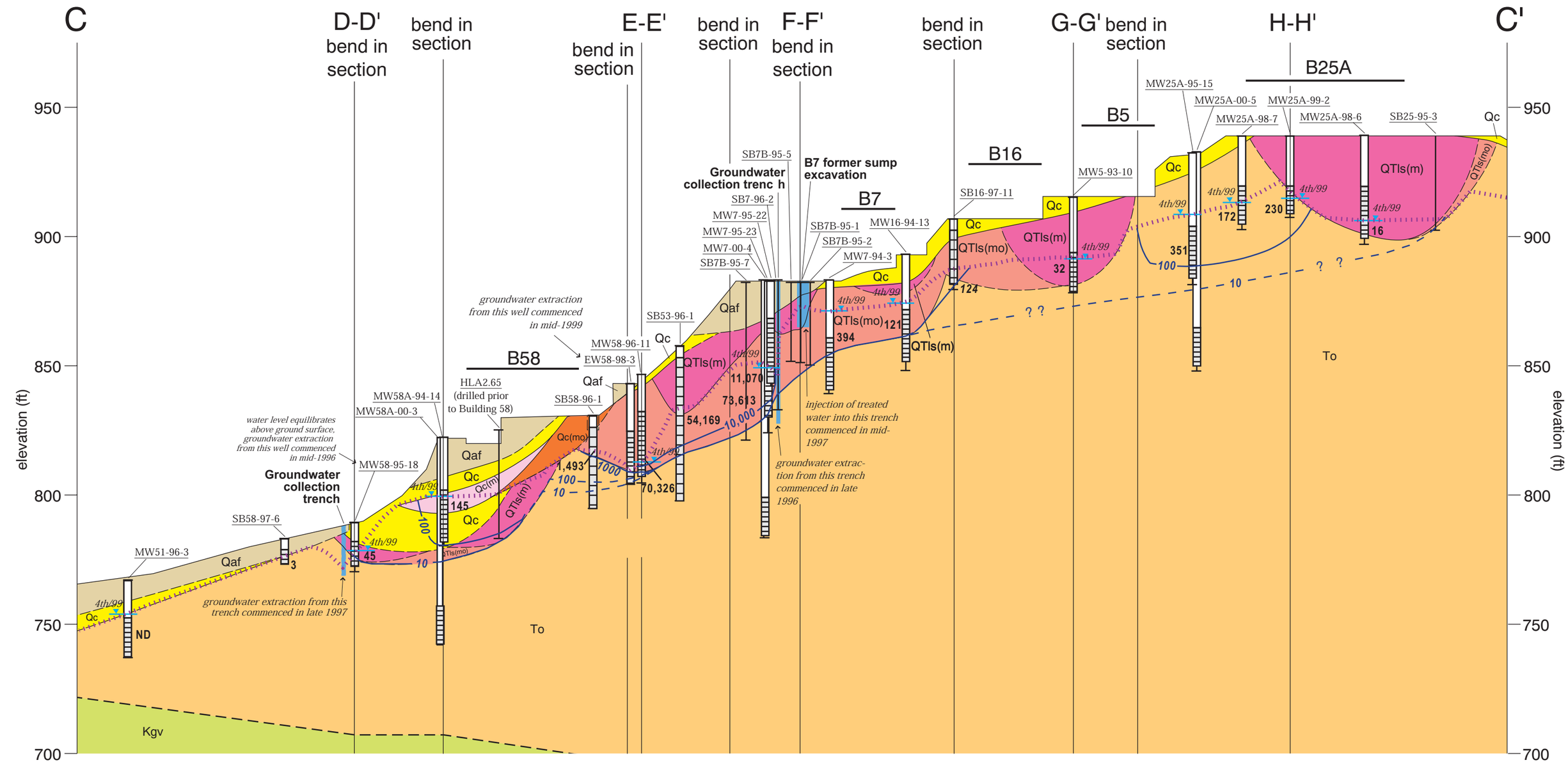
generalized apparent dip



revision: 9/27/2000

Figure B4.3-16. Old Town Area Hydrogeologic Cross Section B-B'.

B4.3-16OTSecBB'.ai
09/00



HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 approximate horizontal location of buildings on or near section

1,625 Mean Concentration (ug/L) ofTotal Halogenated VOCs (FY1999)

172 Concentrations (ug/L) shown in italics are from other than FY99

Water Table

100 Isoconcentration contour line (Total Halogenated VOCs)

tinted box indicates unit appears in section

Qaf	artificial fill	Qdb	debris flow deposits	To	Orinda Formation		
Qc	colluvium (may locally include alluvium)	QTls(m)	paleolandslide deposit composed of Moraga Formation rocks	Tsp	San Pablo Group		
Qc(m)	colluvium composed of Moraga Formation Rocks	QTls(mo)	paleolandslide deposit (Mixed Unit)	Tc	Claremont Formation		
Qc(m)	colluvium composed of Mixed Unit Rocks	Tm	Moraga Formation	Kgv	Great Valley Group		

Contact dashed where approximately located

Fault dashed where approximately located; queried where inferred

generalized apparent dip

GROUNDWATER MONITORING WELL: MW58-93-3 — Well name; Well casing; Water level with quarter of measurement; Screened interval; Total boring depth; 4th/99

TEMPORARY GROUNDWATER SAMPLING POINT: SB53-96-5 — Well name; Well casing; Water level with quarter of measurement; Screened interval; Total boring depth; 4th/99

SOIL BORING: Boring name HLA9.172; Total boring depth

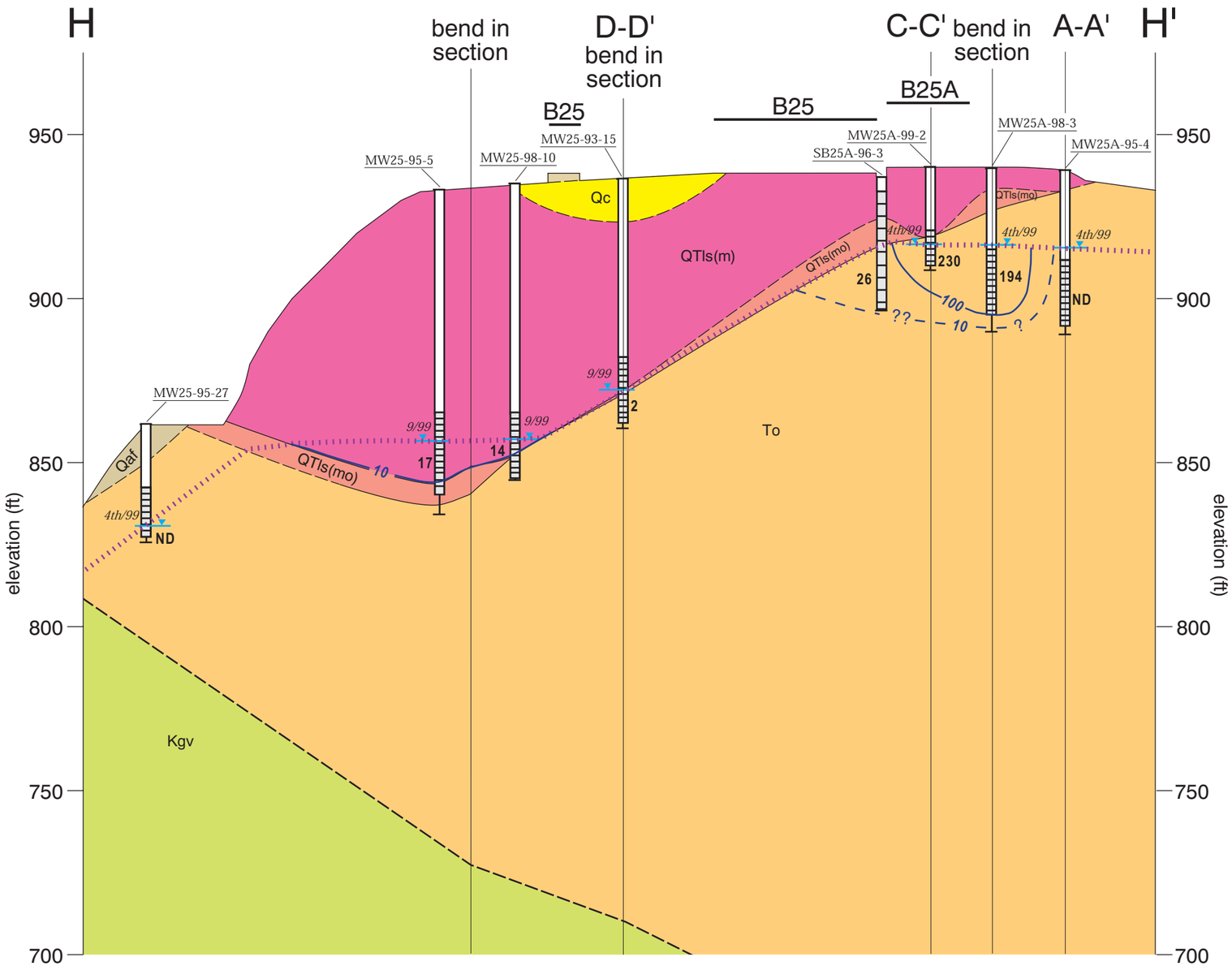
SOIL GAS MONITORING WELL: Well casing; Screened interval

Wells with concentrations from 1st Quarter FY98: SB16-97-11

revision: 9/27/2000

Figure B4.3-17. Old Town Area Hydrogeologic Cross Section C-C'.

B4.3-17OTSecCC'.ai
09/00



HORIZONTAL SCALE 1:900

0 100 200ft

2x vertical exaggeration

elevation from the UNIVERSITY OF CALIFORNIA DATUM

B58 approximate horizontal location of buildings on or near section

1,625 Mean Concentration (ug/L) of Total Halogenated VOCs (FY1999)

172 Concentrations (ug/L) shown in italics are from other than FY99

Water Table

100 Isoconcentration contour line (Total Halogenated VOCs)

tinted box indicates unit appears in section

Qaf	artificial fill	QTls(m)	Paleolandslide Deposit Composed of Moraga Formation Rocks	Tsp	San Pablo Group
Qc	colluvium (may locally include alluvium)	QTls(mo)	Paleolandslide Deposit (Mixed Unit)	Tc	Claremont Formation
Qdb	debris flow deposits	Tm	Moraga Formation	Kgv	Great Valley Group
		To	Orinda Formation		

Contact
dashed where approximately located

Fault
dashed where approximately located; queried where inferred

generalized apparent dip

GROUNDWATER MONITORING WELL — MW58-93-3

TEMPORARY GROUNDWATER SAMPLING POINT — SB53-96-5

SOIL BORING — HLA9.172

SOIL GAS MONITORING WELL

Well name
Well casing
Water level with quarter of measurement
Screened interval
Total boring depth
Boring name
Total boring depth
Well casing
Screened interval
4th/99

revision: 9/27/2000

Figure B4.3-18. Old Town Area Hydrogeologic Cross Section H-H'.

B4.3-18OTSecHH'.ai
09/00

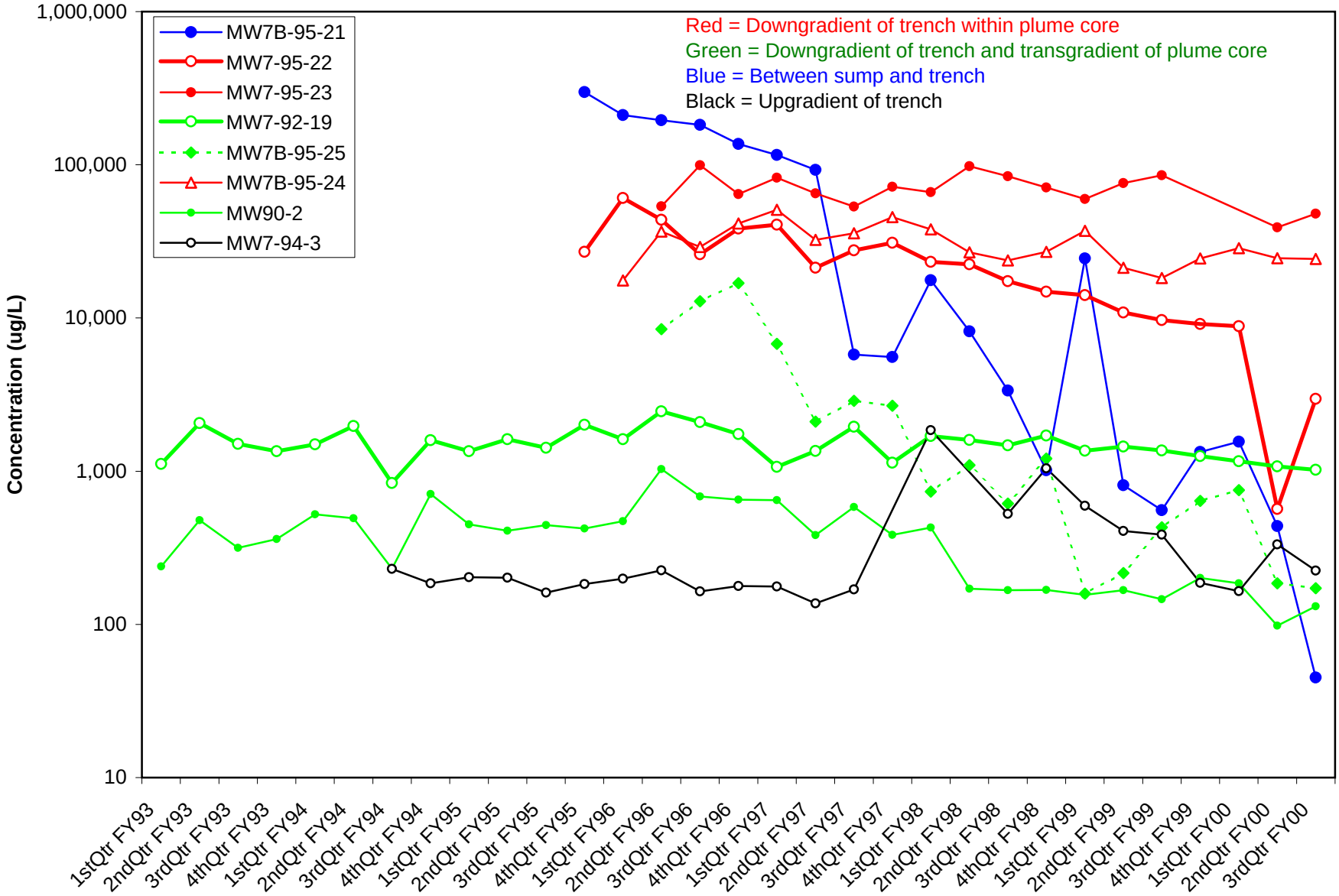


Figure B4.3-19. Concentrations of Total Halogenated VOCs in Wells Located Near Source of the Building 7 Lobe.

OldTownConcGraphs.xls
09/00

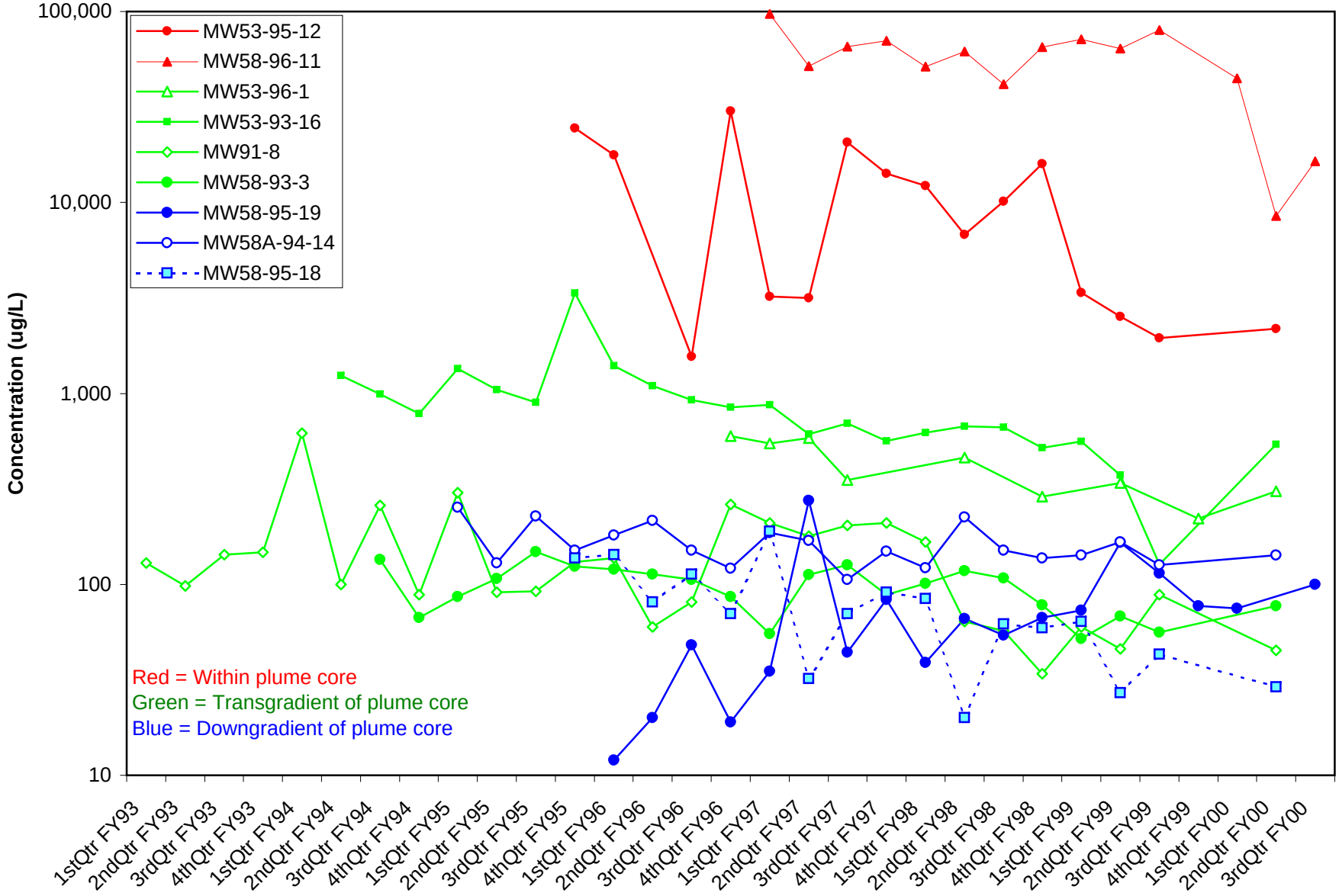


Figure B4.3-20. Concentrations of Total Halogenated VOCs in Wells Located in the Downgradient Portion of the Building 7 Lobe.

OldTownConcGraphs.xls
09/00

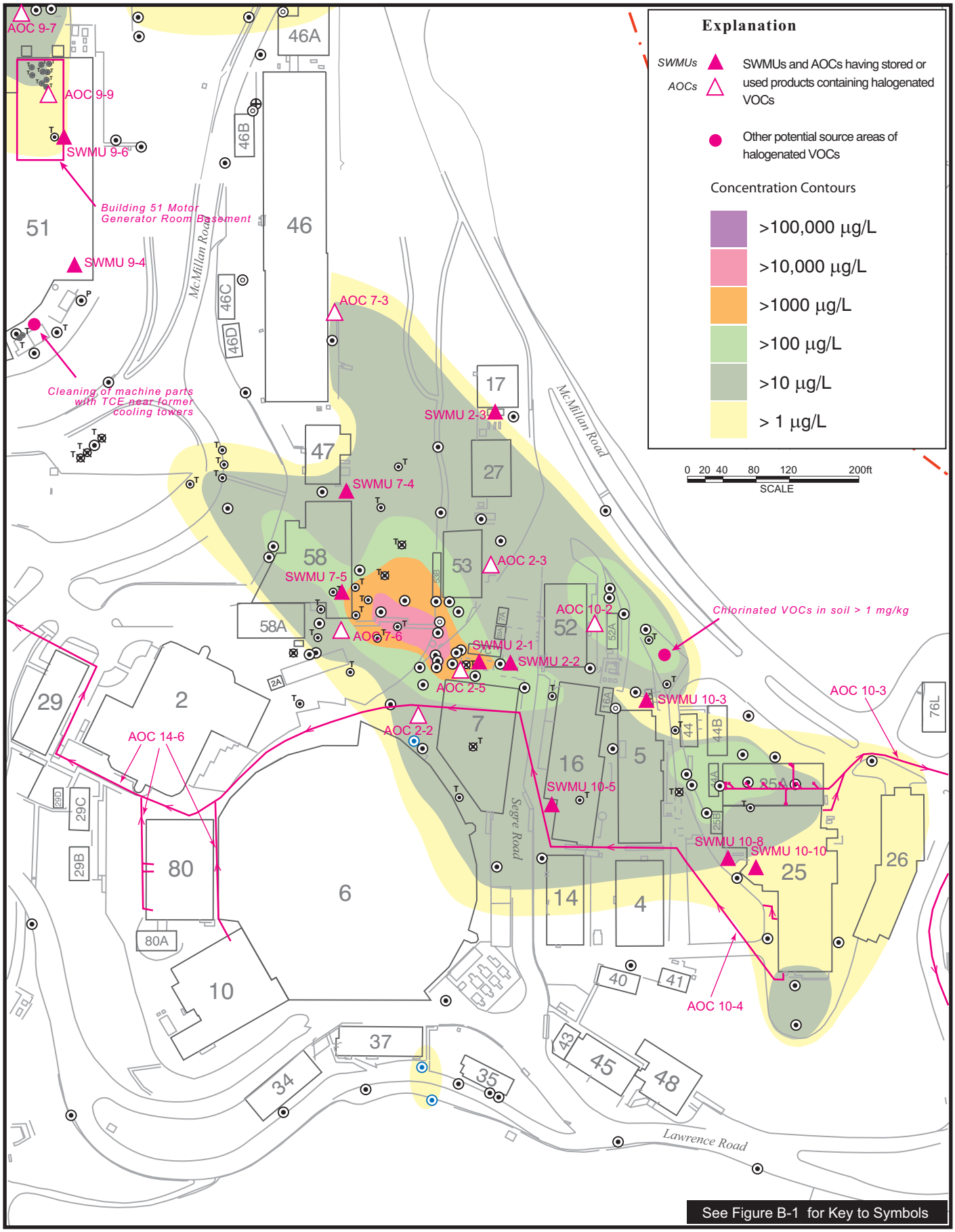


Figure B4.3-21. Isoconcentration Contour Map (Plume Map): Mean Concentrations of Total Halogenated VOCs (FY1999) in Old Town Area, With Potential Source Areas for the Groundwater Contamination.

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09/00

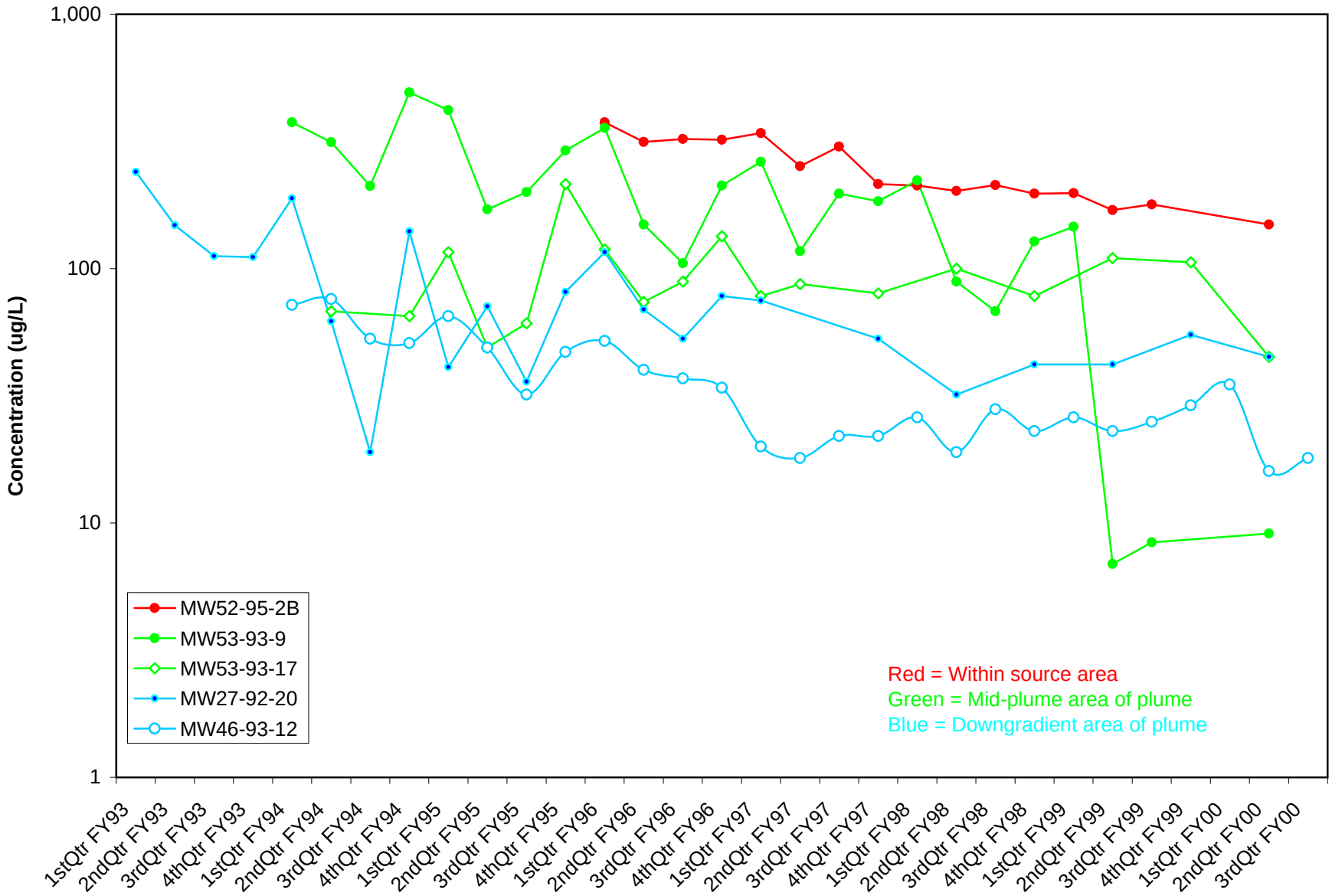

Figure 4.3-22. Concentrations of Total Halogenated VOCs in Wells Within the Building 52 Lobe of the Old Town Groundwater Solvent Plume (AOC 2-4).

OldTownConcGraphs.xls
09/00

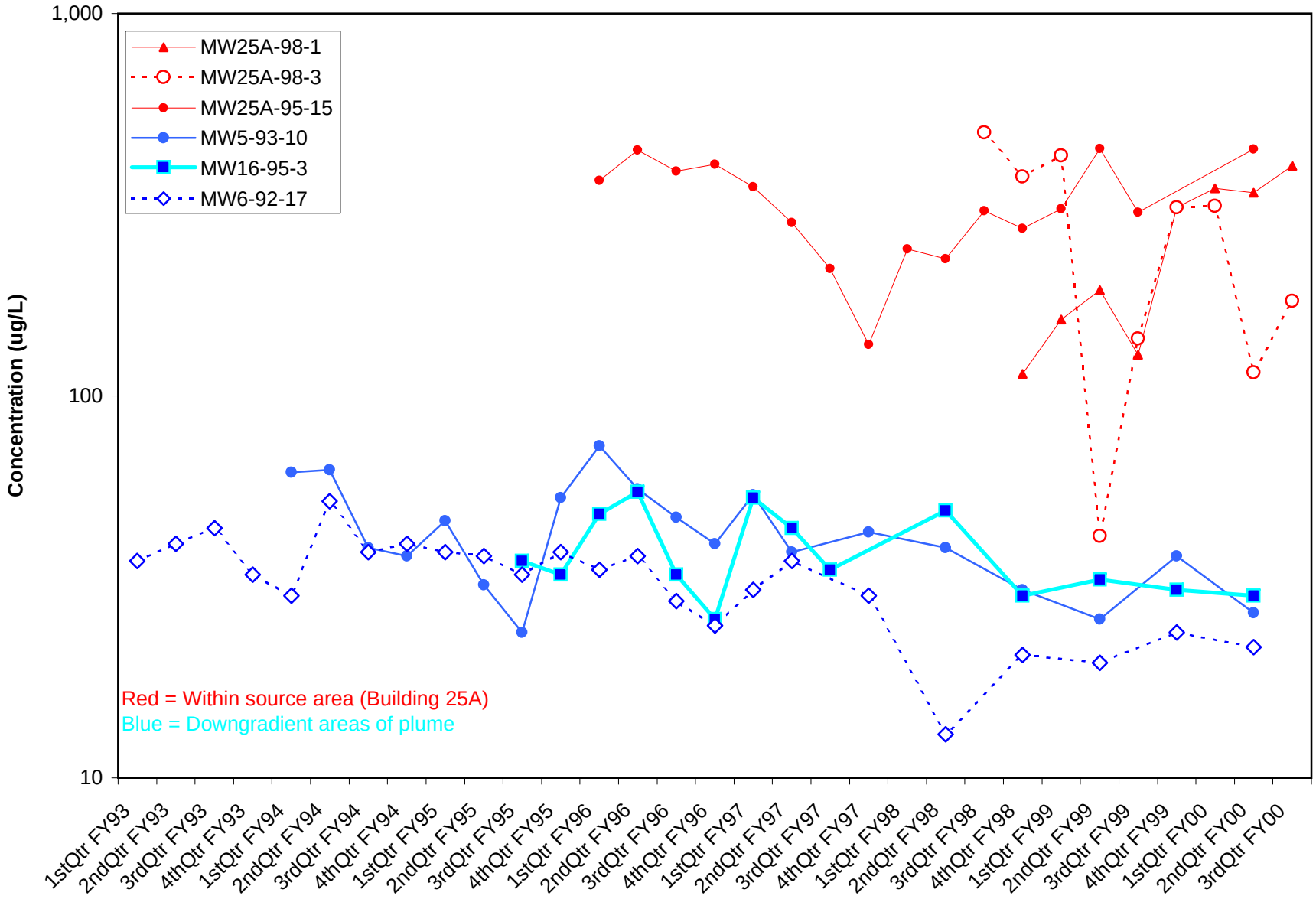

Figure B4.3-23. Concentrations of Total Halogenated VOCs in Wells Within the Building 25A Lobe of the Area 10 Solvent Contaminated Groundwater (AOC 10-5).

OldTownConcGraphs/xls
09/00

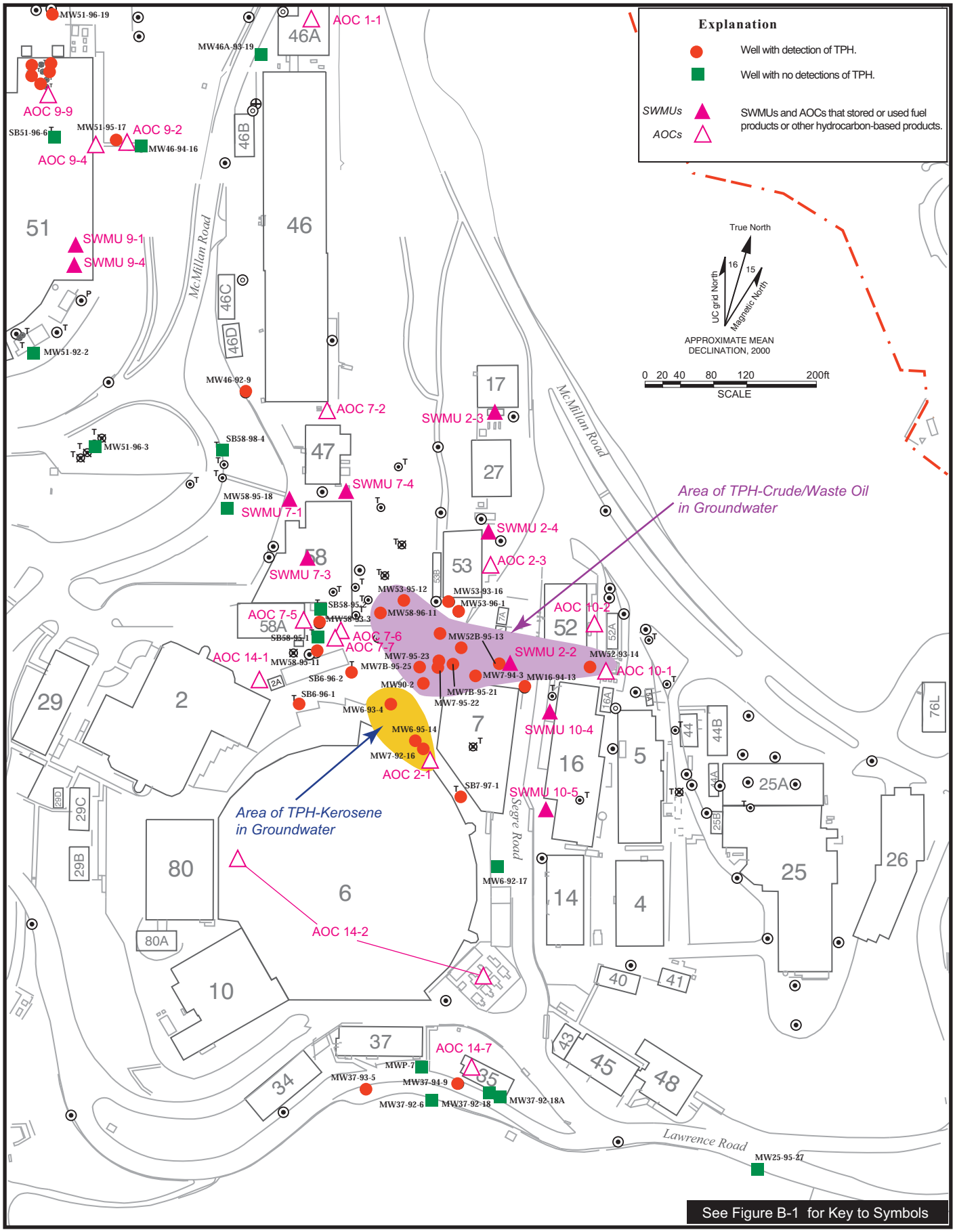

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Figure B4.4-1. Locations of TPH Detections in Groundwater in the Old Town Area, With Locations of SWMUs and AOCs That Stored or Used Fuel Products or Other Hydrocarbon-Based Products.

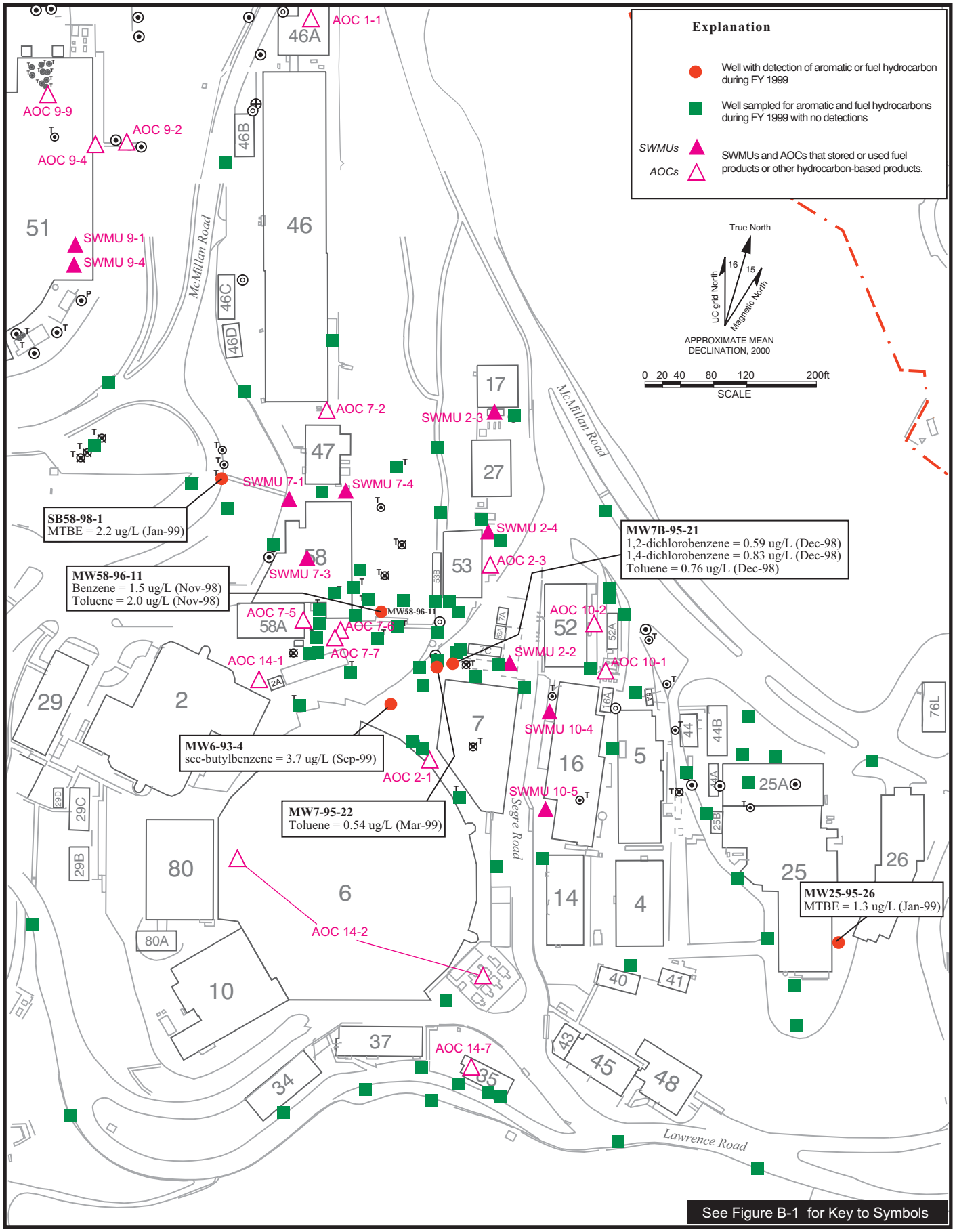

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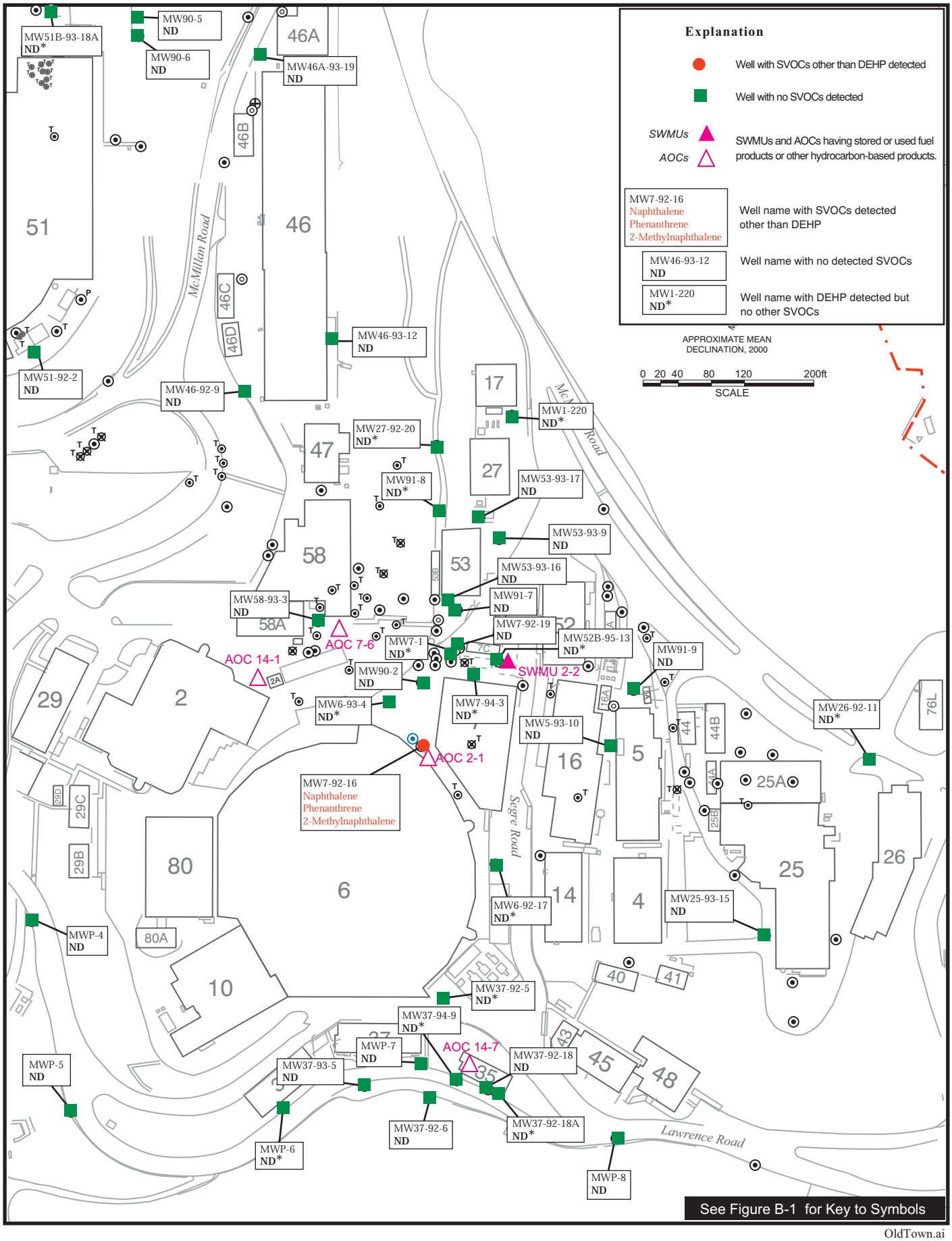
Figure B4.4-2. Aromatic and Fuel-Related Hydrocarbons in Groundwater in the Old Town Area During FY1999, With Locations of SWMUs and AOCs That Stored or Used Fuel Products or Other Hydrocarbon-Based Products.



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09/00

Figure B4.4-3. Locations of SVOCs (Other Than DEHP) Detected in Groundwater in the Old Town Area With Locations of SWMUs and AOCs That Stored or Used SVOCs.

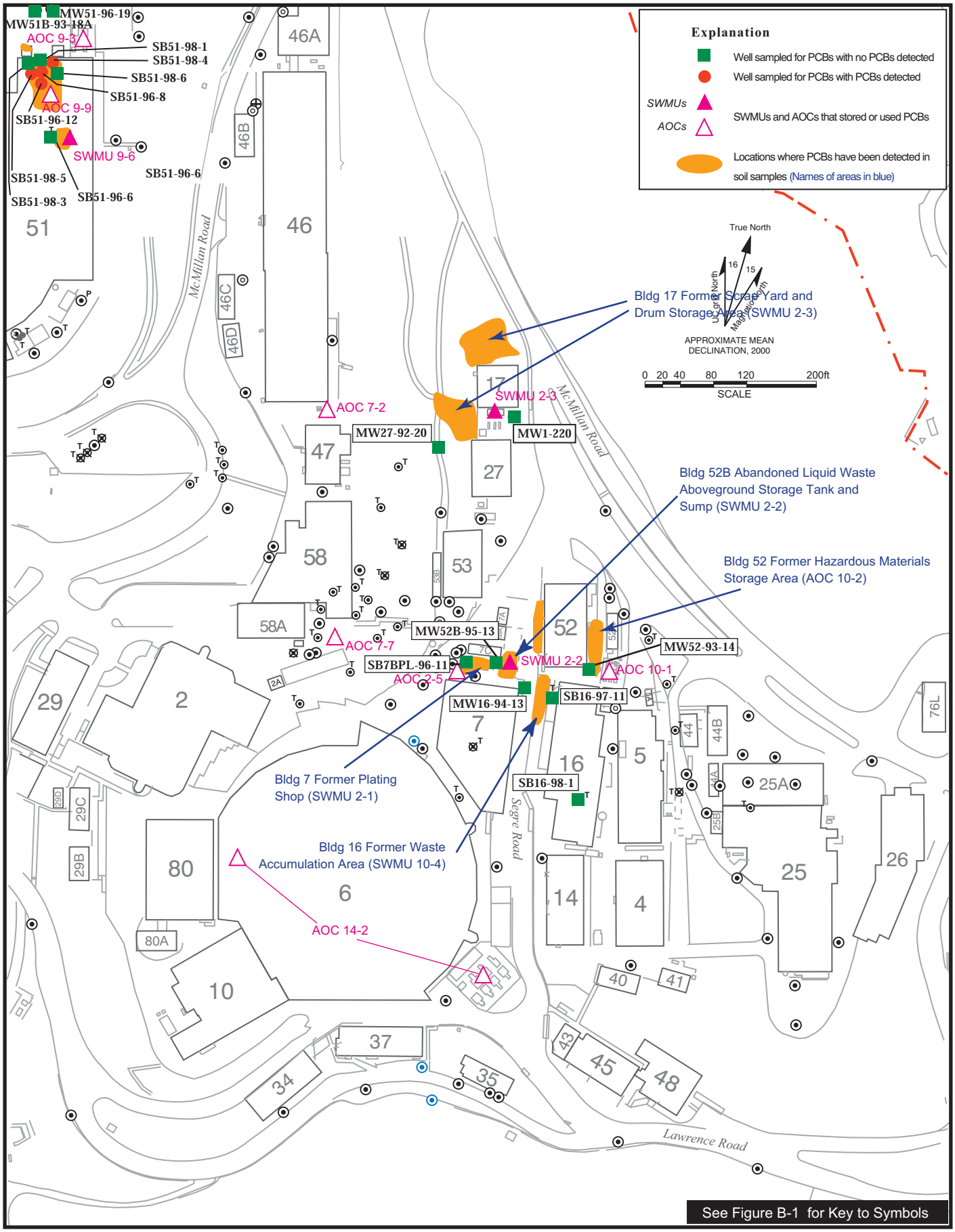

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Figure B4.4-4. PCBs in Groundwater and Soil in the Old Town Area With Locations of SWMUs and AOCs That Stored or Used PCBs.

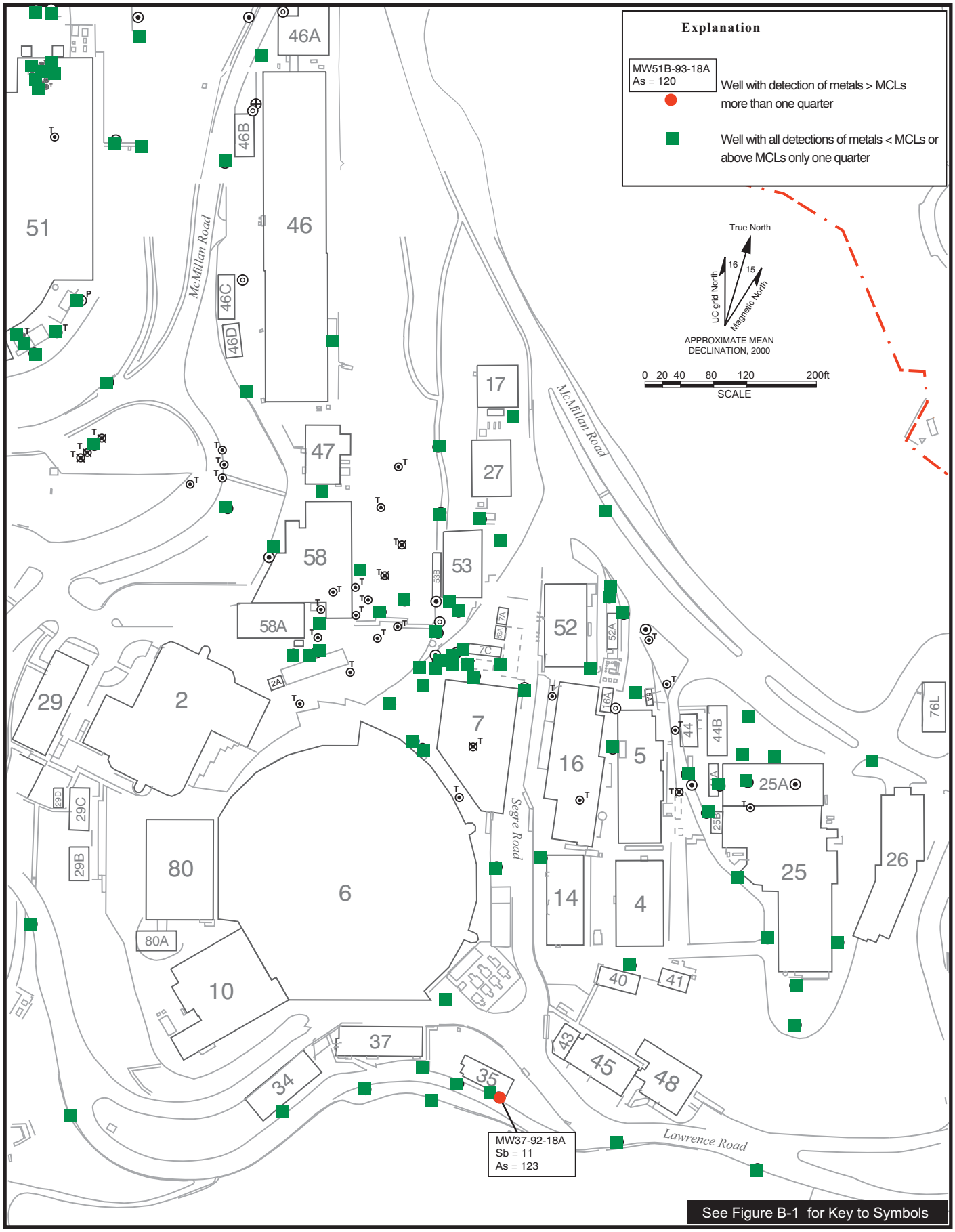

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Figure B4.4-5. Maximum Concentrations of Metals Detected in Groundwater Above MCLs During More Than One Quarter in the Old Town Area.

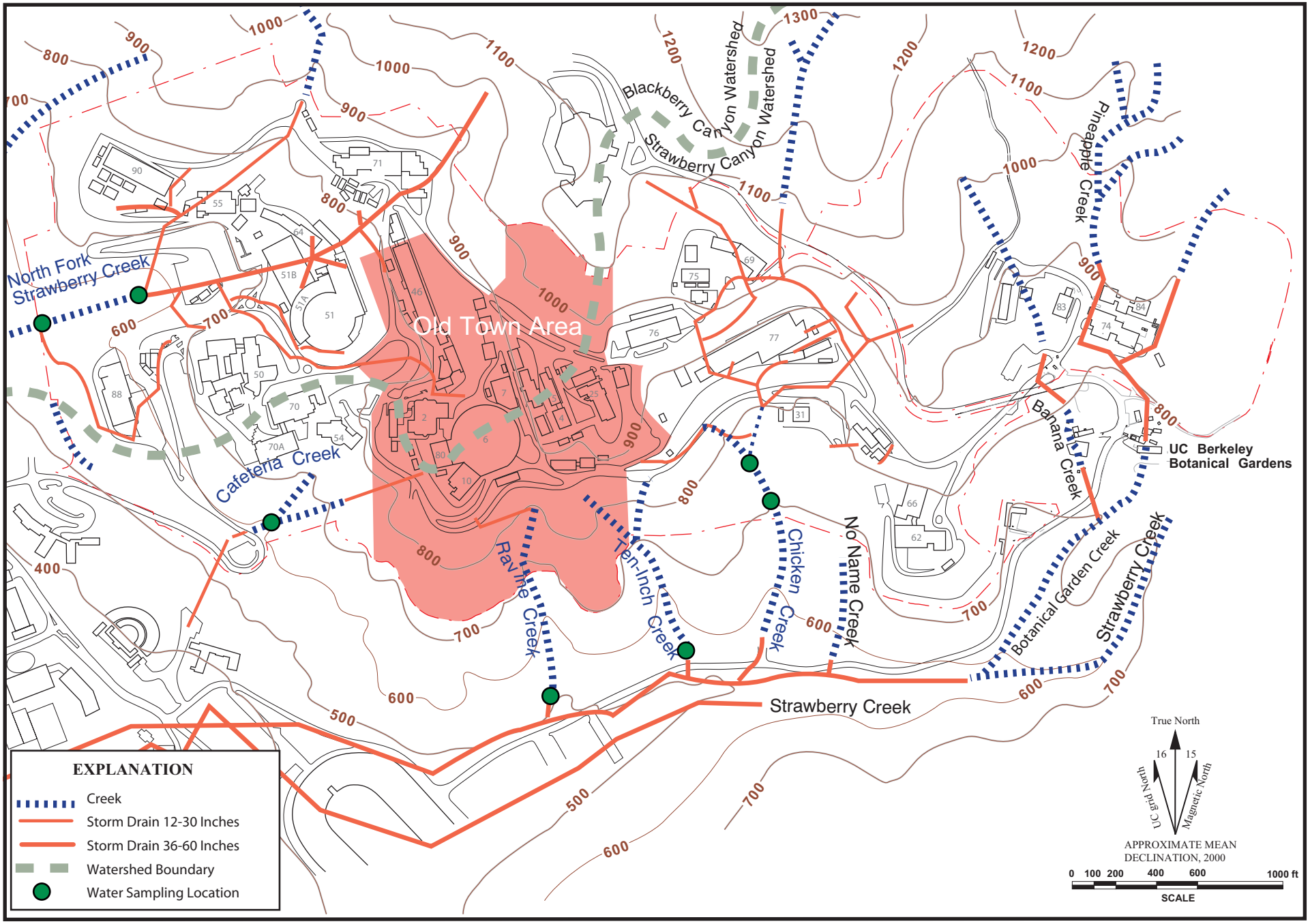


Figure B4.5-1. **Surface Water Sampling Locations Evaluating Potential Migration Pathways of Contamination in Old Town Area to Surface Water.**

B4.5-1 OTSurfWtr.ai
09/00

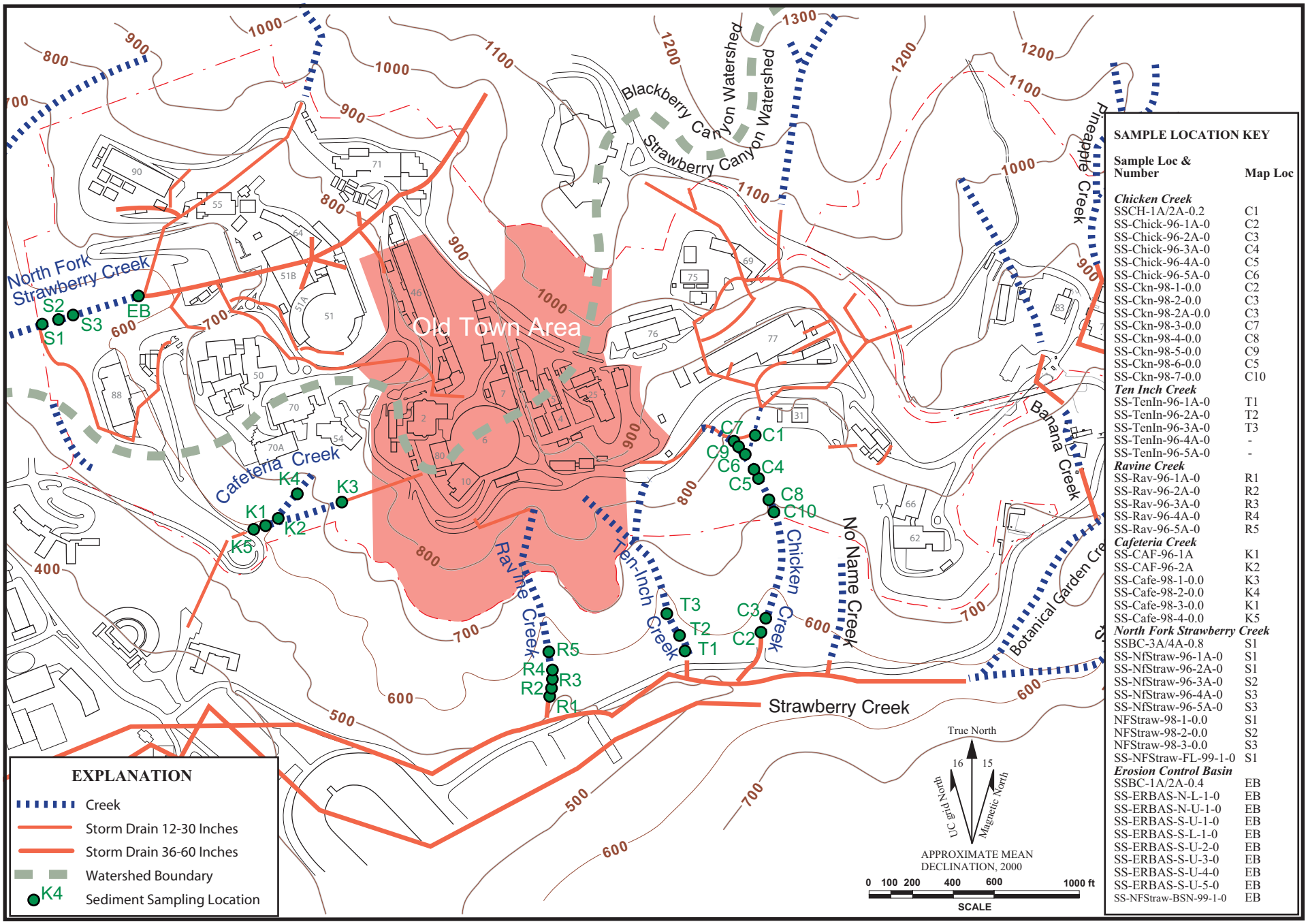
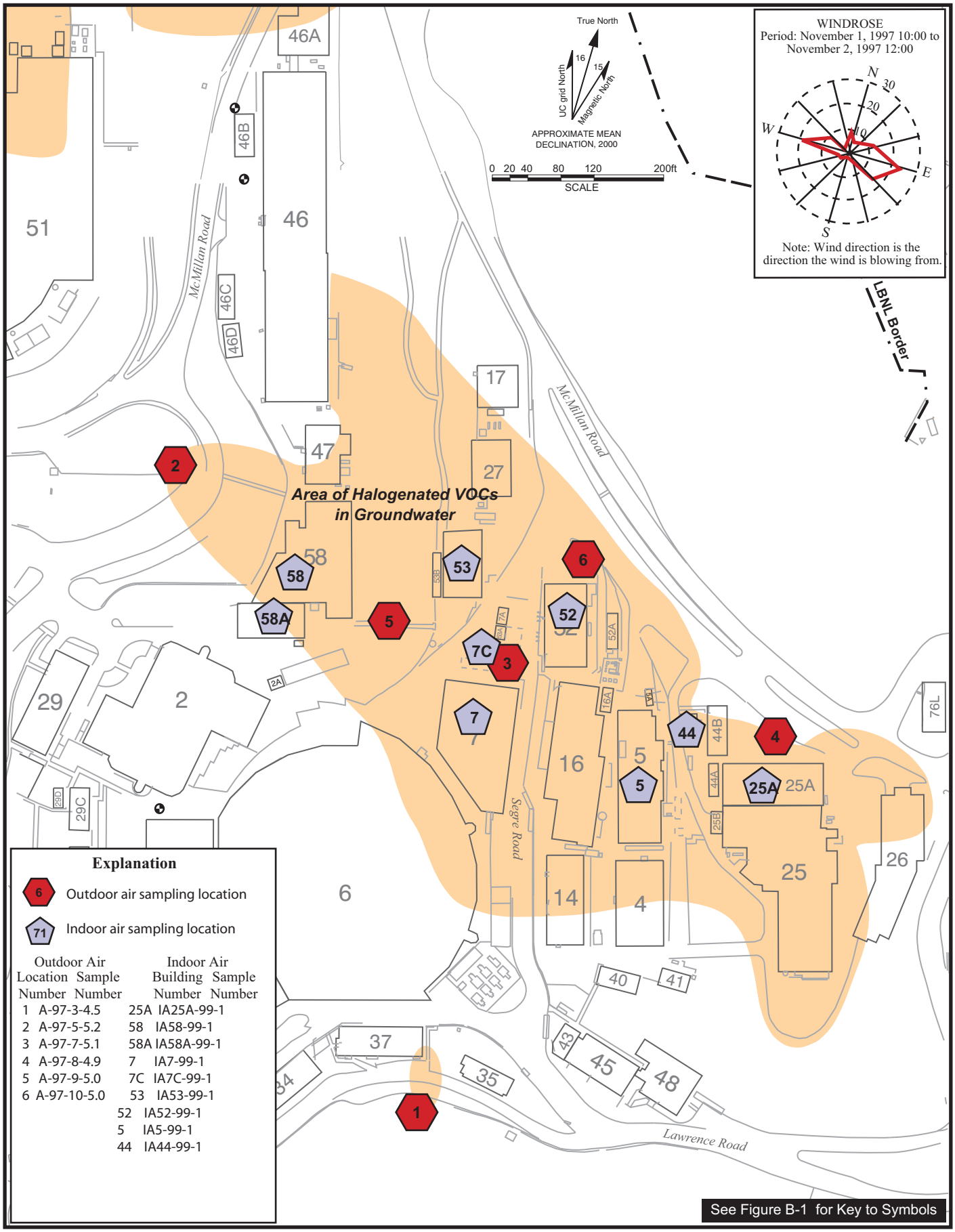


Figure B4.5-2. **Sediment Sampling Locations Evaluating Potential Migration Pathways of Contamination in Old Town Area to Surface Water.**

B4.5-2OTSed.ai
09/00



B5.1-1air.ai
09/00

Figure B5.1-1. Indoor and Outdoor Air Sampling Locations, Old Town Area.