Figures

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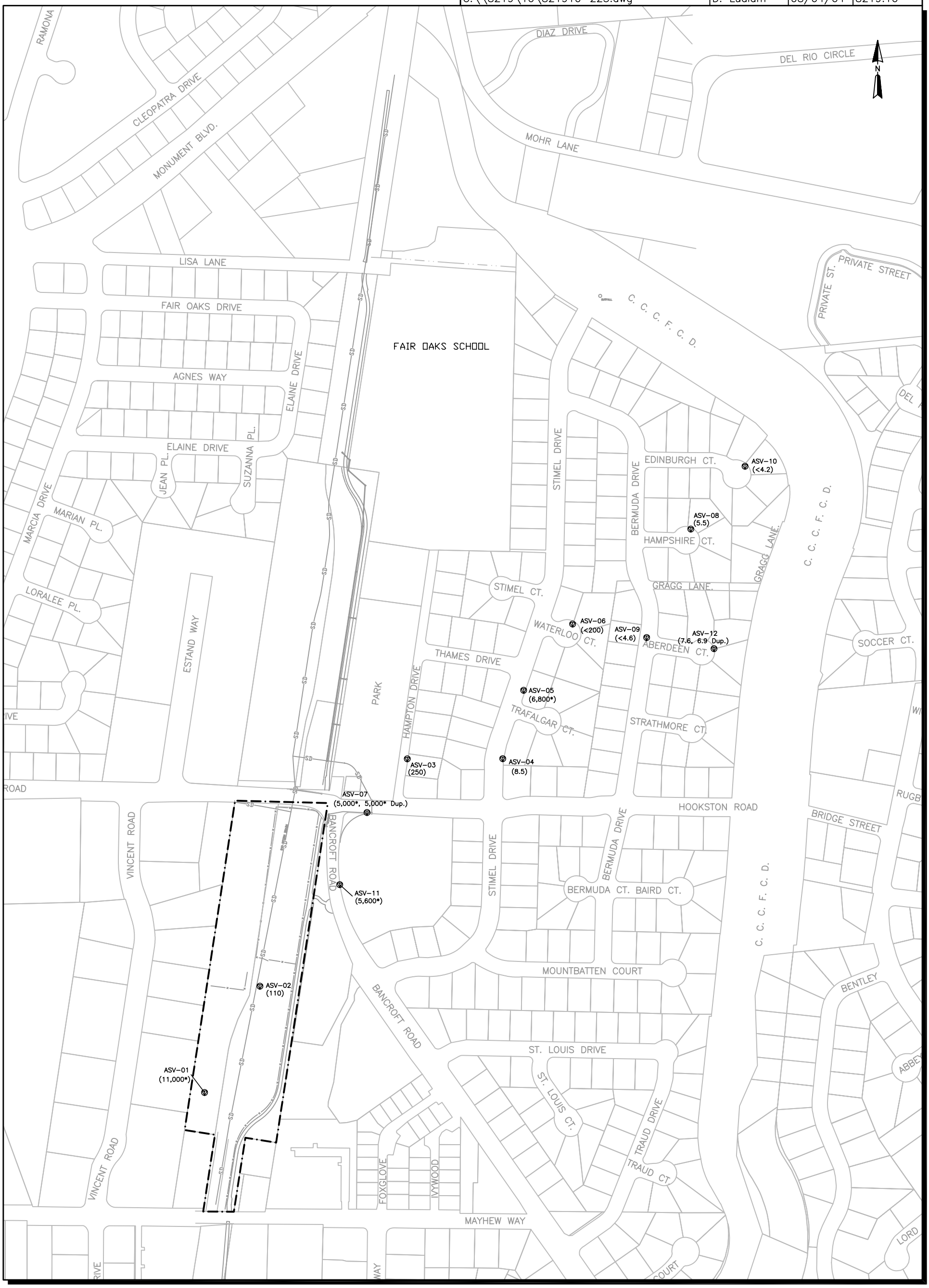


LEGEND

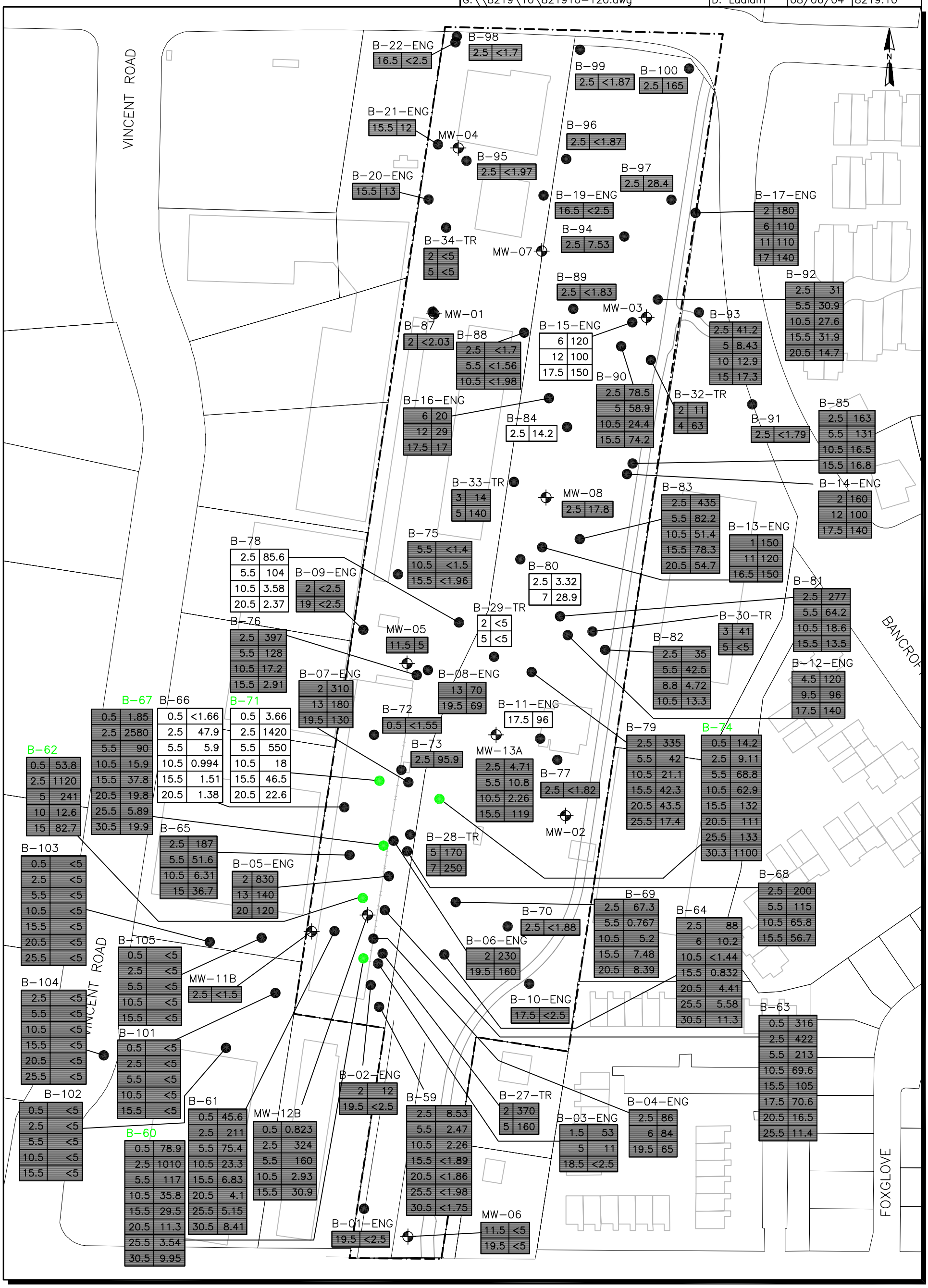
▽	Active Soil Vapor Sample Location
(39)	TCE Soil Vapor Concentration ($\mu g/m^3$)
*	Concentration is Greater than the RWQCB Commercial/Industrial ESL of 4,000$\mu g/m^3$ TCE
— — · —	Site Boundary

0 300
FEET

Figure 7-4
TCE in Active Soil Vapor Samples
October 2003
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-120.dwg	D. Ludlam	08/06/04	8219.10



LEGEND

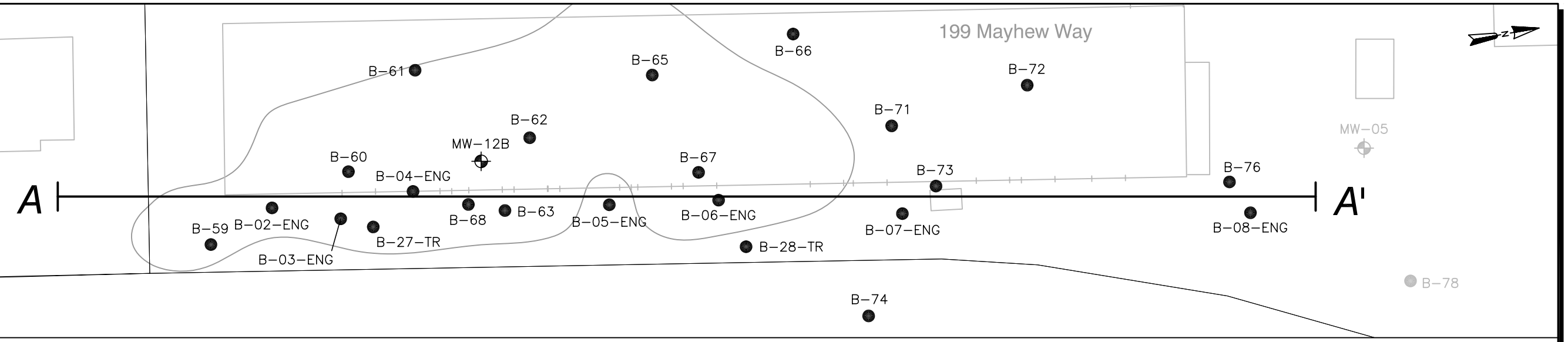
- Highest Concentration Sample Location
- Soil Boring Location
- Monitoring Well Location
- 19.5 | <2.5 — TCE Concentration in Soil, µg/kg
- Depth – Feet bgs
- Site Boundary

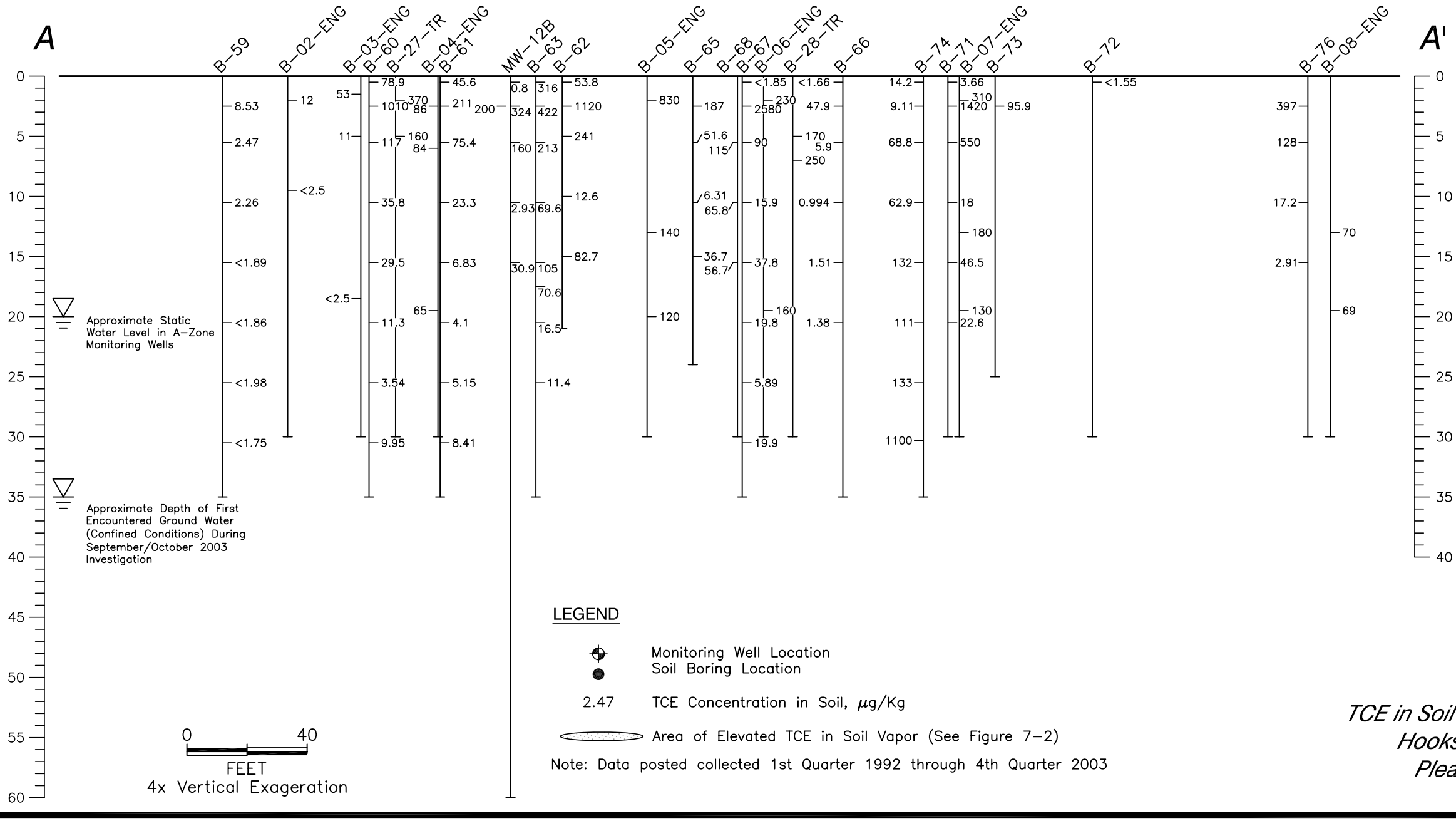
0 100
FEET

Figure 7-5
TCE Concentrations in Soil
Hookston Station Project
Pleasant Hill, California

ERM 05/04

Project No. 8219.10
Date: 08/05/04
Drawn By: R. Olson
CAD File: G:\8219\10\821910-183.dwg





LEGEND

- Monitoring Well Location / Soil Boring Location
- 2.47 TCE Concentration in Soil, µg/Kg
- Area of Elevated TCE in Soil Vapor (See Figure 7-2)

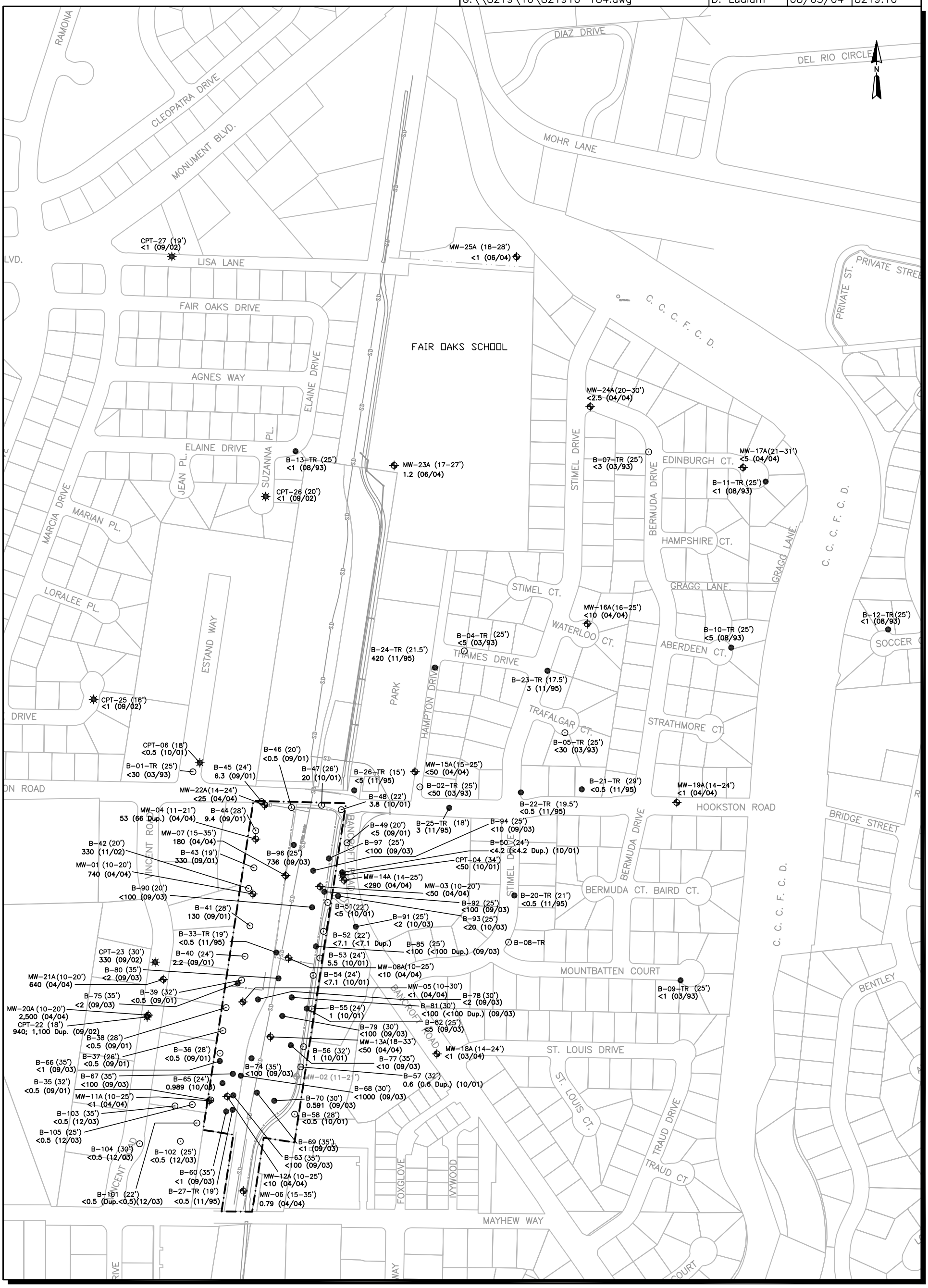
Note: Data posted collected 1st Quarter 1992 through 4th Quarter 2003

Figure 7-6

TCE in Soil Cross Section A-A'
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-184.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (10-30)' Screened intervals or depth of sample in feet
- 10 (11/02) PCE concentration (μg/L) and date sampled
- Site Boundary

0 300
FEET

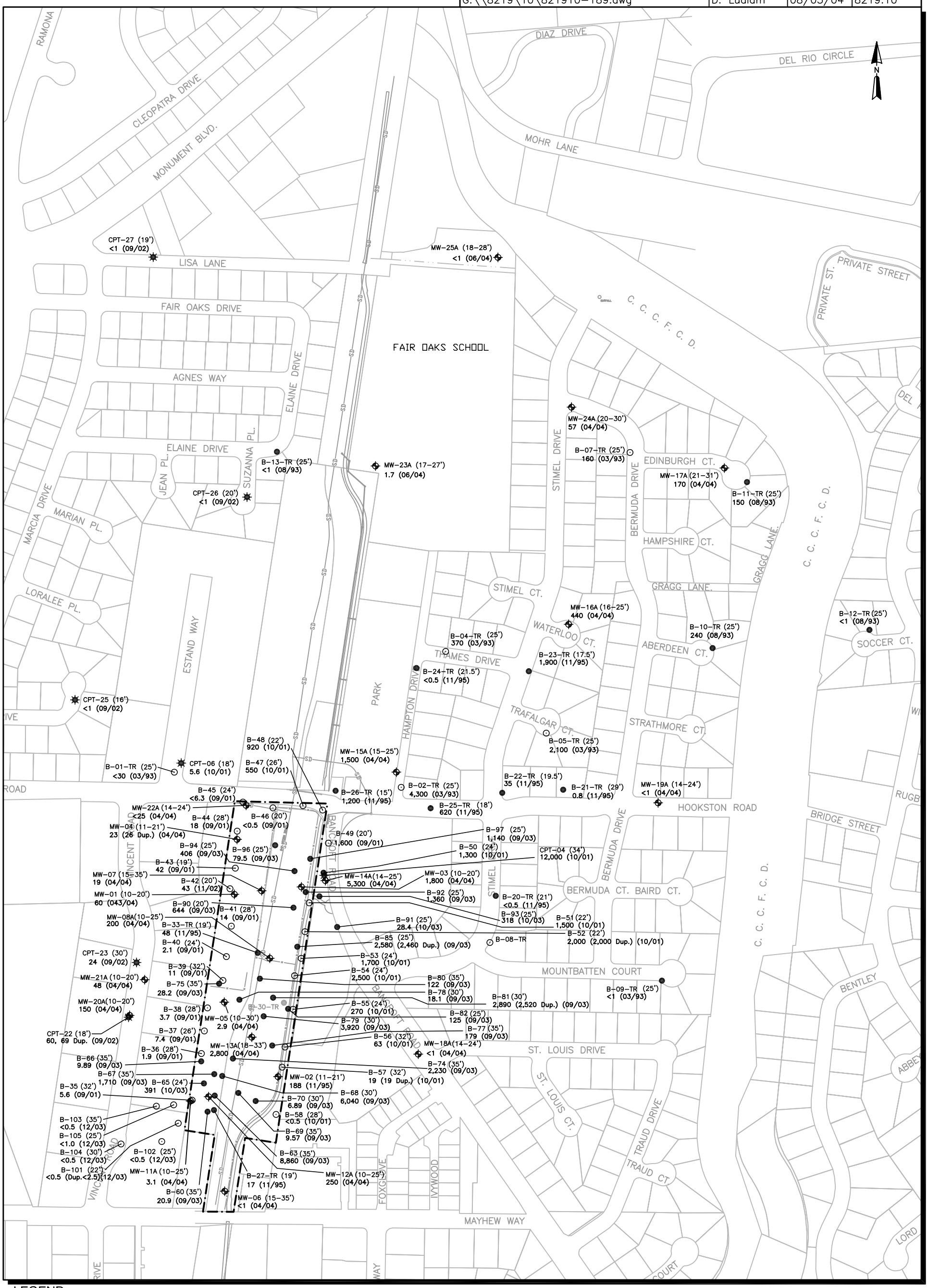
Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇒ cis-1,2-DCE
TCE ⇒ 1,1-DCE

Figure 8-1

PCE Concentrations in Ground Water
A Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-189.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- (0-30)' Multi-Level CPT ground water sample location; Screened intervals or depth of sample in feet
- 10 (11/02) TCE concentration (μg/L) and date sampled
- Site Boundary

0 300 FEET

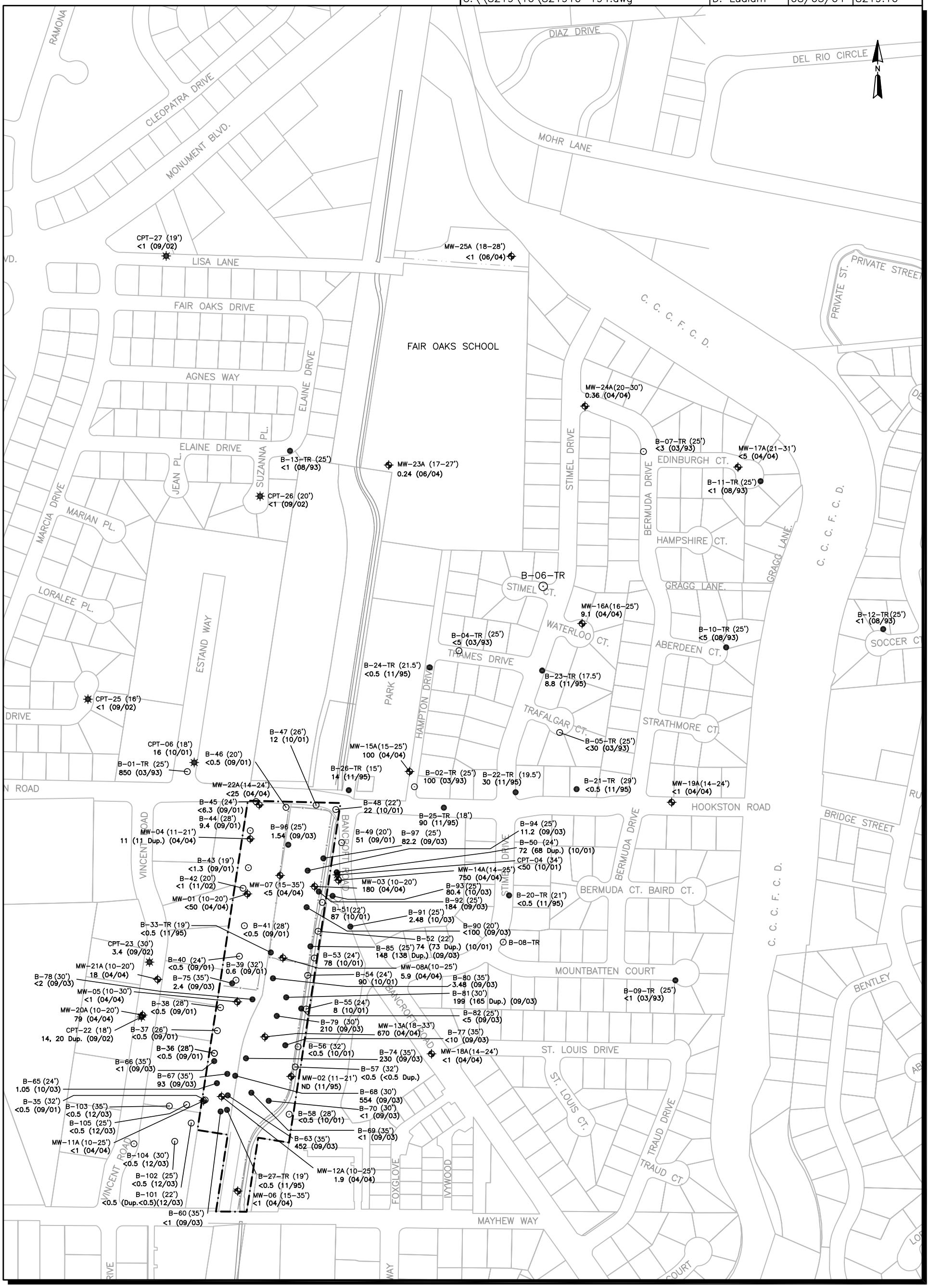
Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇒ cis-1,2-DCE
TCE ⇒ 1,1-DCE

Figure 8-2

TCE Concentrations in Ground Water
A Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-194.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (0-30') Screened intervals or depth of sample in feet
- 10 (11/02) cis-1,1-DCE concentration (μg/L) and date sampled
- Site Boundary

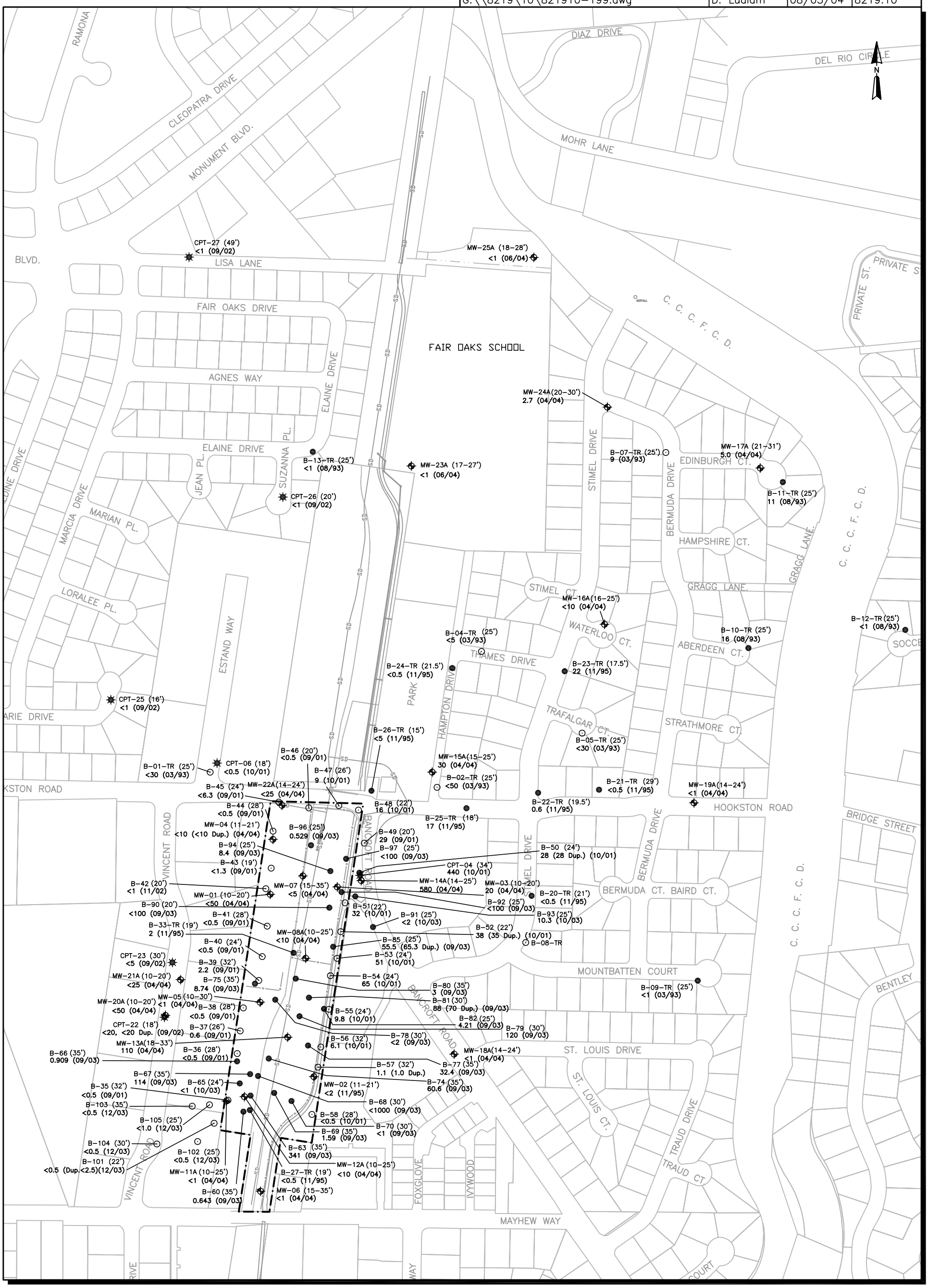
0 300
FEET

Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇒ cis-1,2-DCE
TCE ⇒ 1,1-DCE

Figure 8-3
cis-1,2-DCE Concentrations in Ground Water
A Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-199.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (0-30') Screened intervals or depth of sample in feet
- 10 (11/02) 1,1-DCE concentration (μg/L) and date sampled
- Site Boundary

0 300
FEET

Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇒ cis-1,2-DCE
TCE ⇒ 1,1-DCE

Figure 8-4
1,1-DCE Concentrations in Ground Water
A Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
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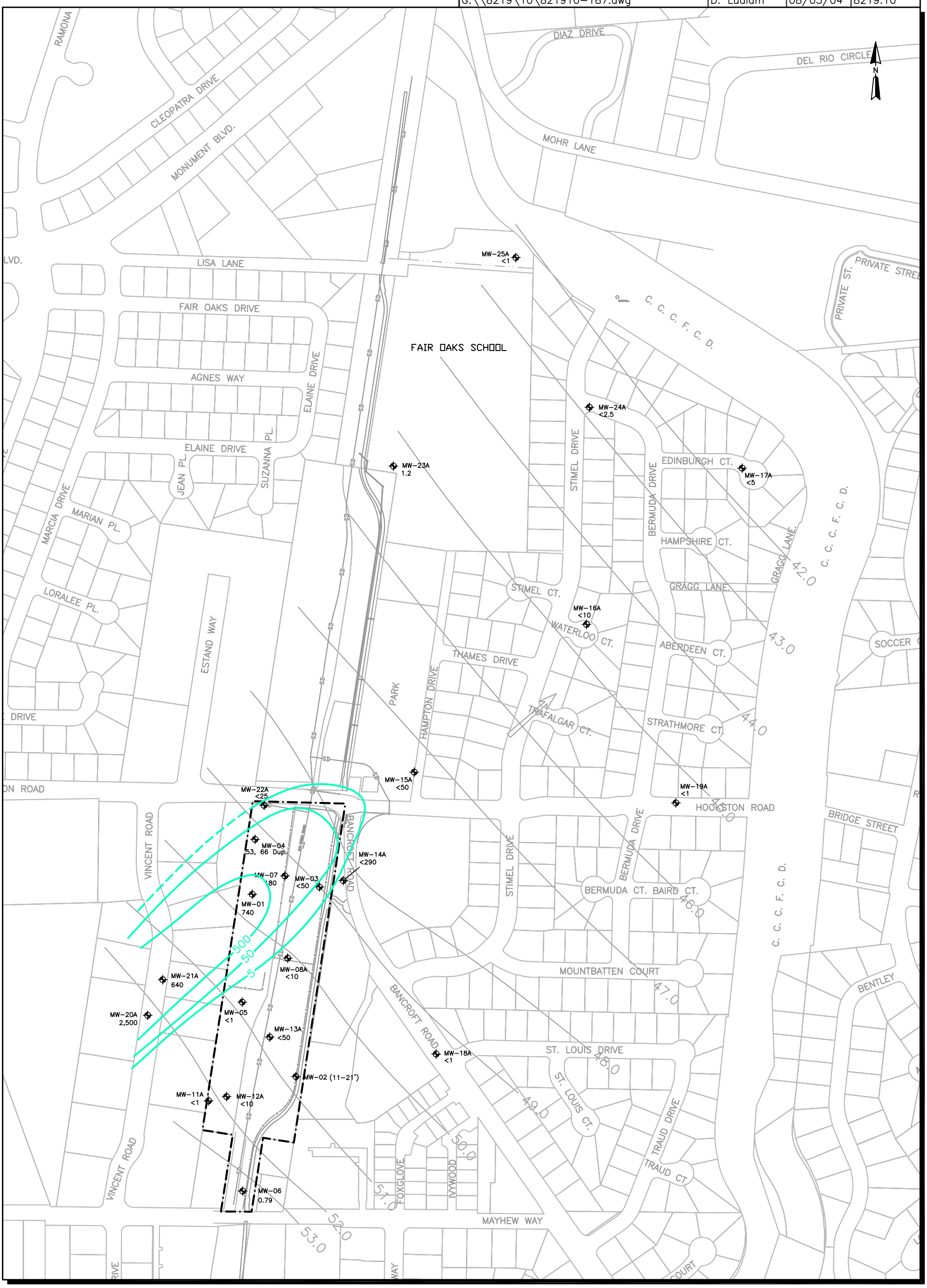


LEGEND

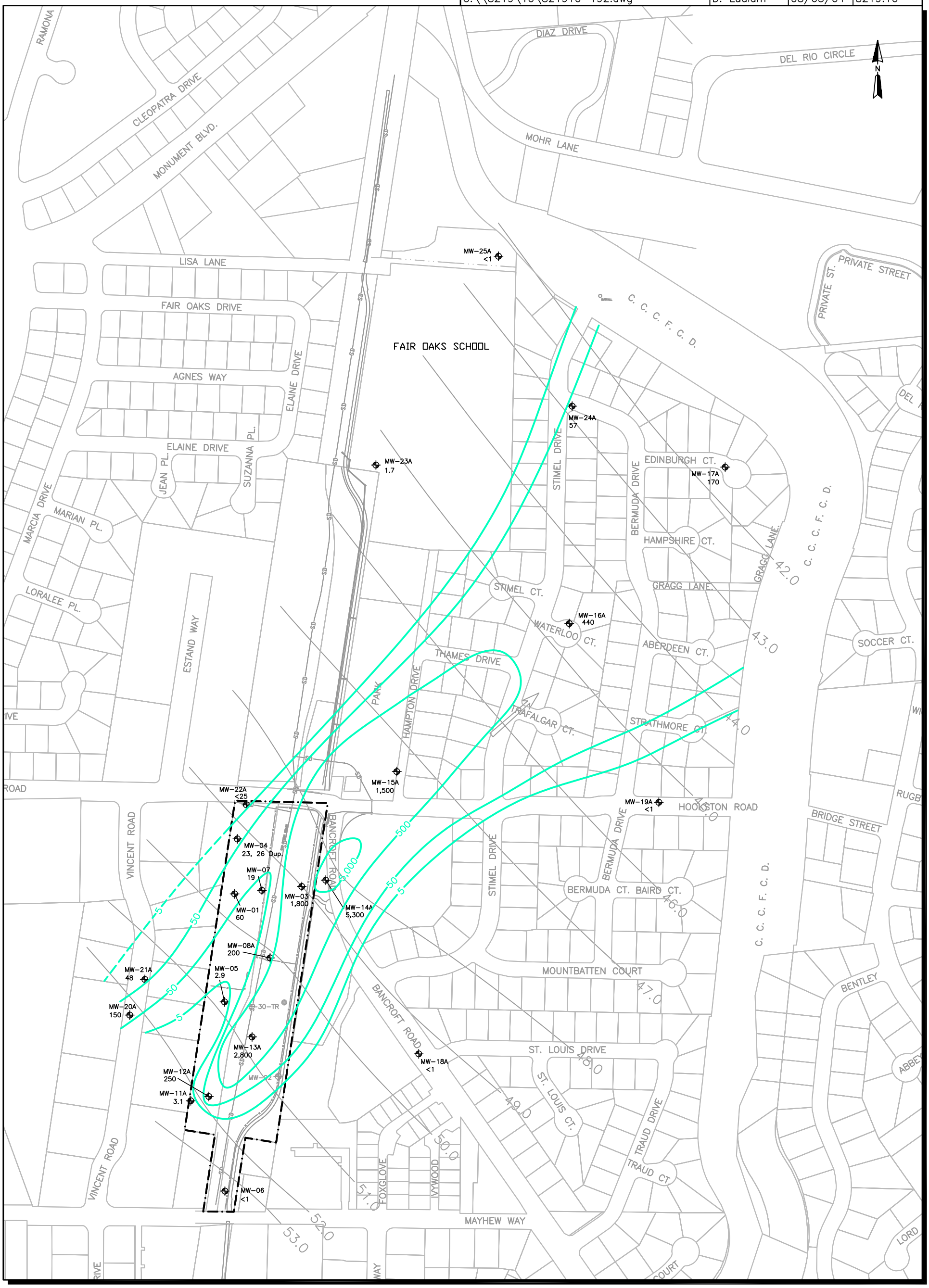
- Monitoring Well location
- 0.79 — PCE concentration (μg/L)
- 1 — PCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, A–Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 8-5
PCE Isoconcentration Map
A Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-192.dwg	D. Ludlam	08/05/04	8219.10



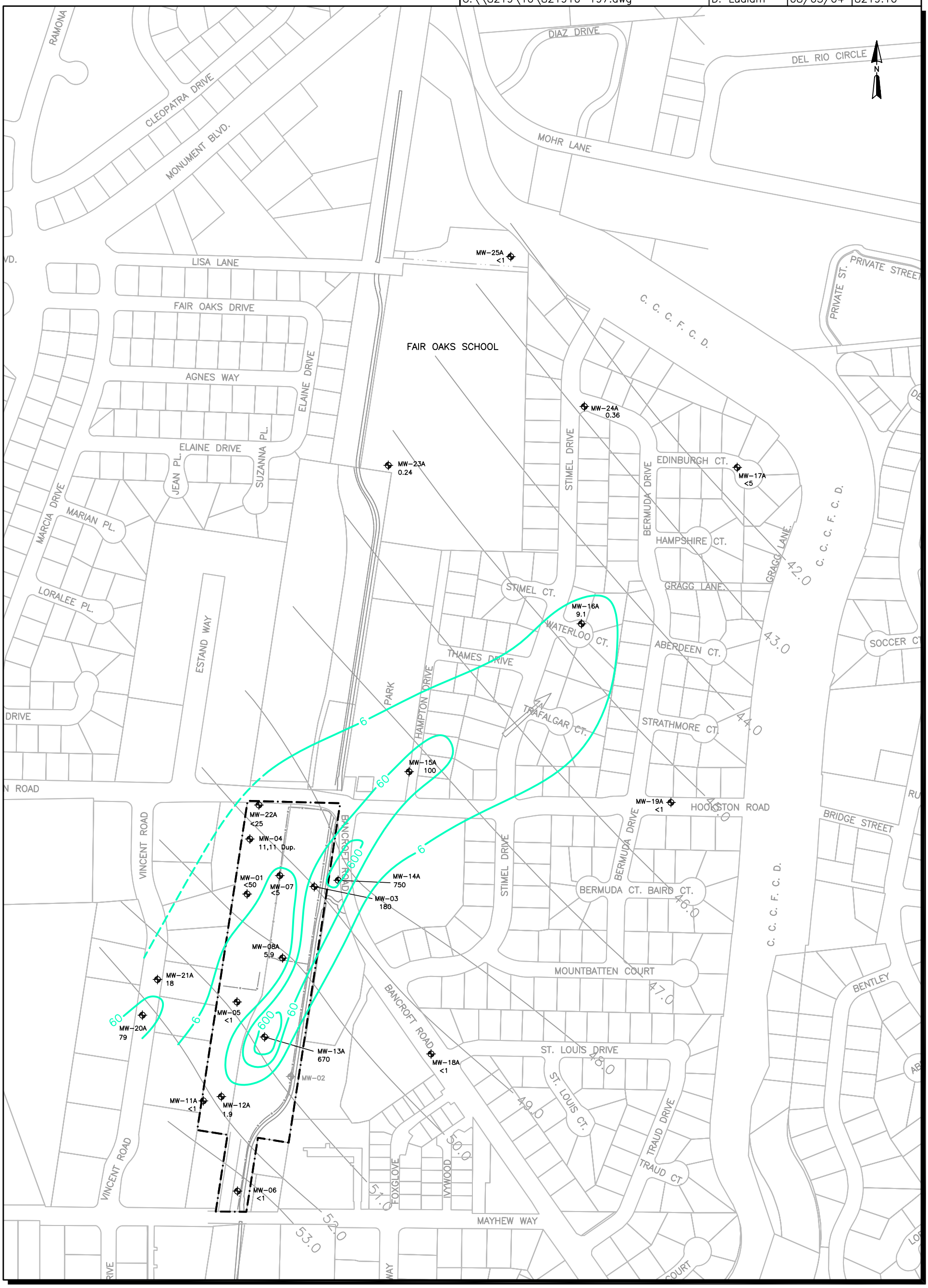
LEGEND

- Monitoring Well location
- 0.79 — TCE concentration (µg/L)
- TCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, A–Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 8-6
TCE Isoconcentrations Map
A Zone Ground Water
Hookston Station Project
Pleasant Hill, California
ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-197.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

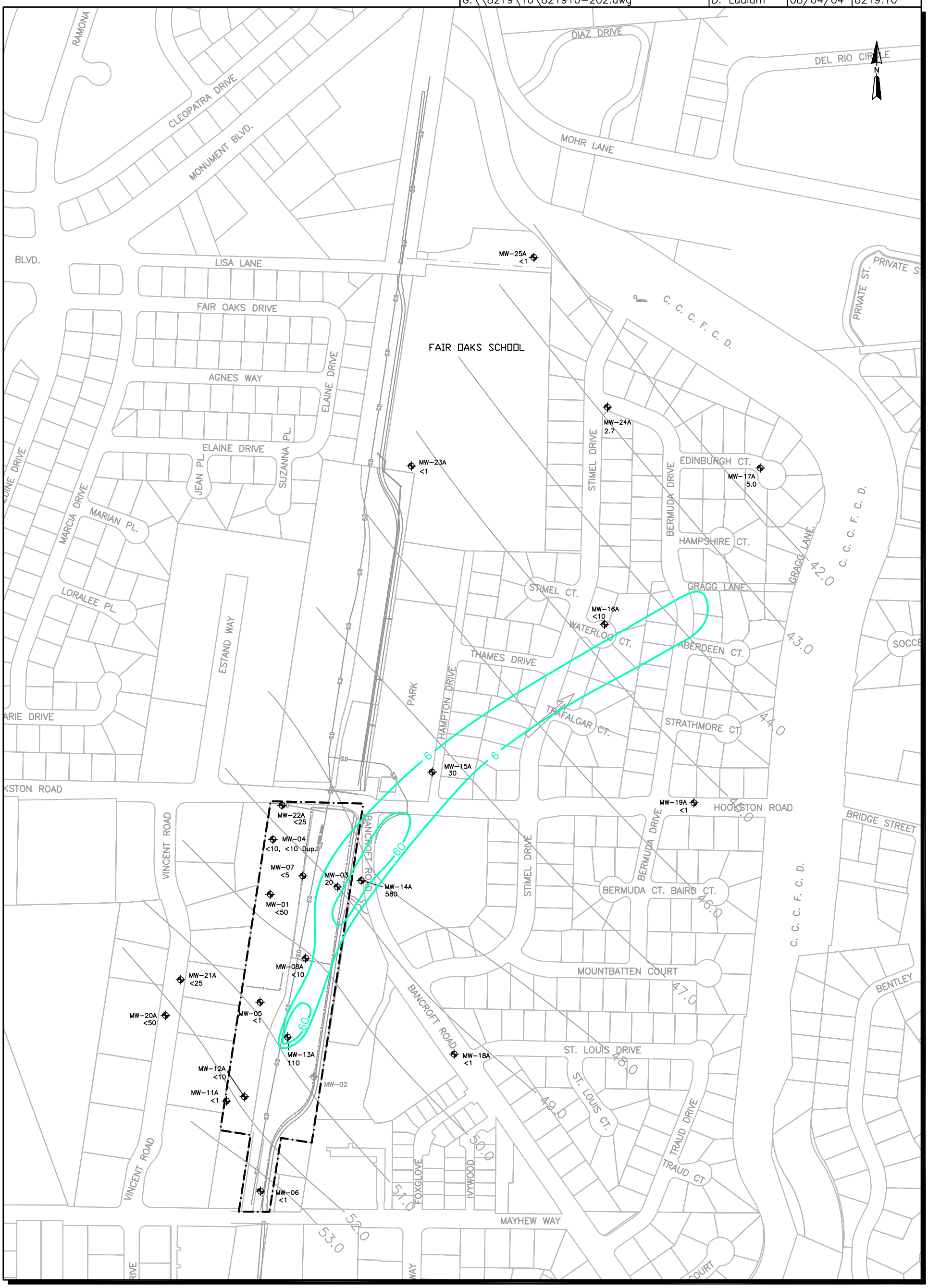
- Monitoring Well location
- 0.79 — cis-1,1-DCE concentration (µg/L)
- 1 — cis-1,1-DCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, A-Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 8-7
cis-1,2-DCE Isoconcentration Map
A Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-202.dwg	D. Ludlam	08/04/04	8219.10



LEGEND

Monitoring Well location

0.79 — 1,1-DCE concentration (μg/L)

1 — 1,1-DCE in ground water contour, dashed where inferred
Data collected second quarter 2004

Site Boundary

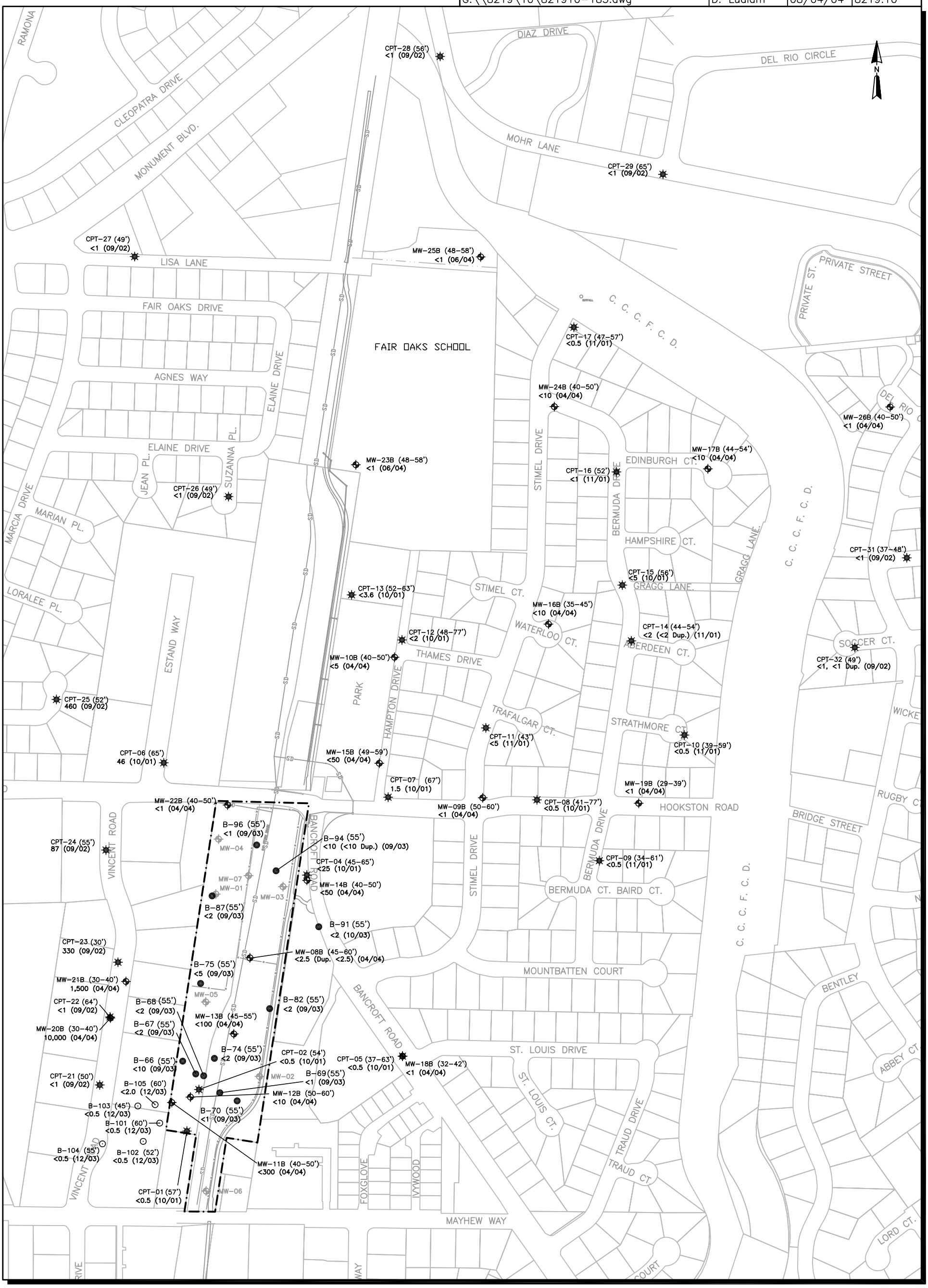
Ground water elevation contour, A-Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 8-8
1,1-DCE Isoconcentration Map
A Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-185.dwg	D. Ludlam	08/04/04	8219.10



LEGEND

- Monitoring Well Location
- Hydropunch Location
- (10-30)' Multi-Level CPT ground water sample location; Screened intervals or depth of sample in feet
- 1 (04/04) PCE Concentration (μg/L) and date sampled
- Site Boundary

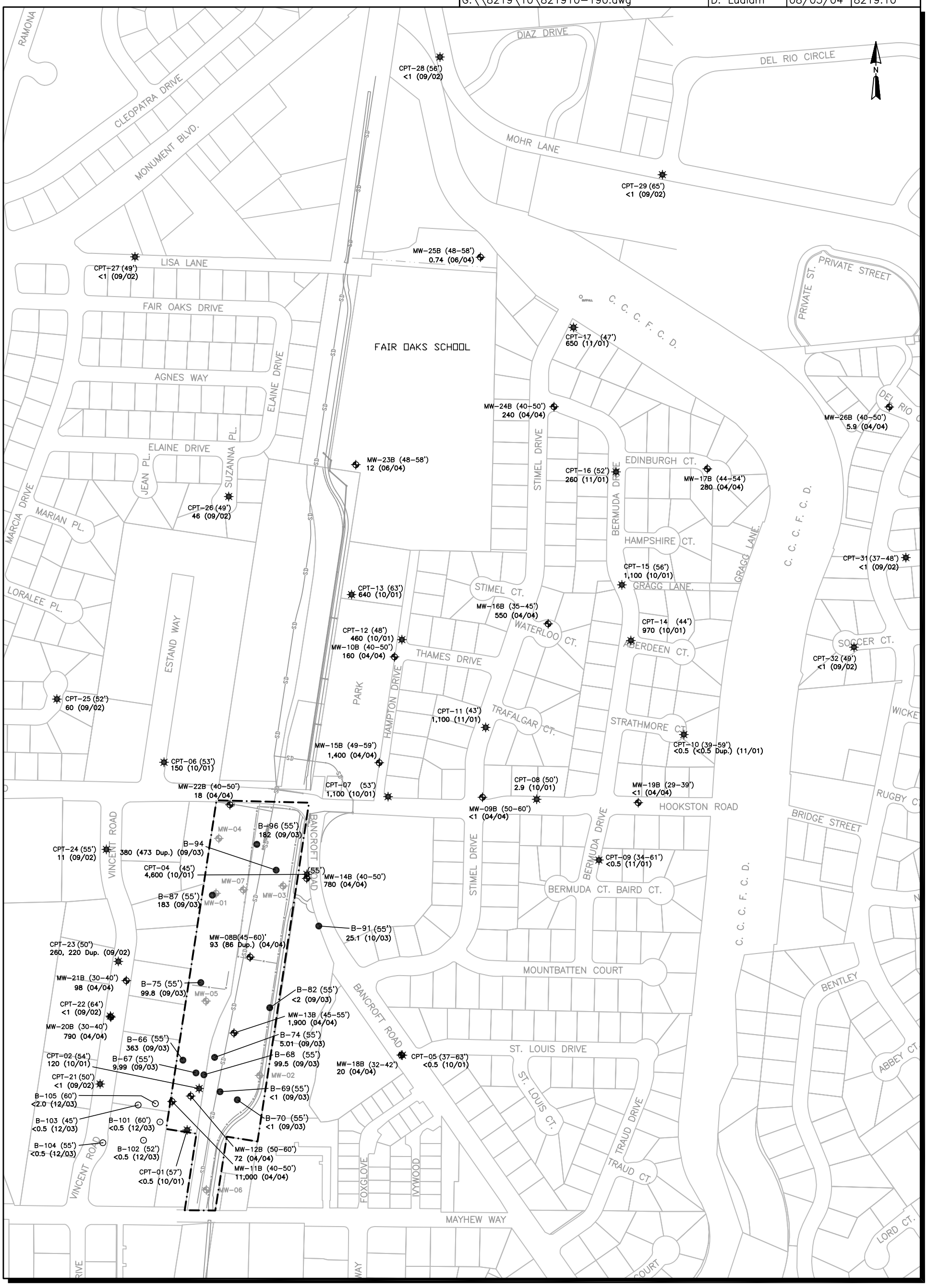
0 300
FEET

Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇗ cis-1,2-DCE
TCE ⇘ 1,1-DCE

Figure 8-9
PCE Concentrations in Ground Water
B Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-190.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (30-70)' Screened intervals or depth of sample in feet
- 1 (10/01) TCE concentration (μg/L) and date sampled
- Site Boundary

0 300
FEET

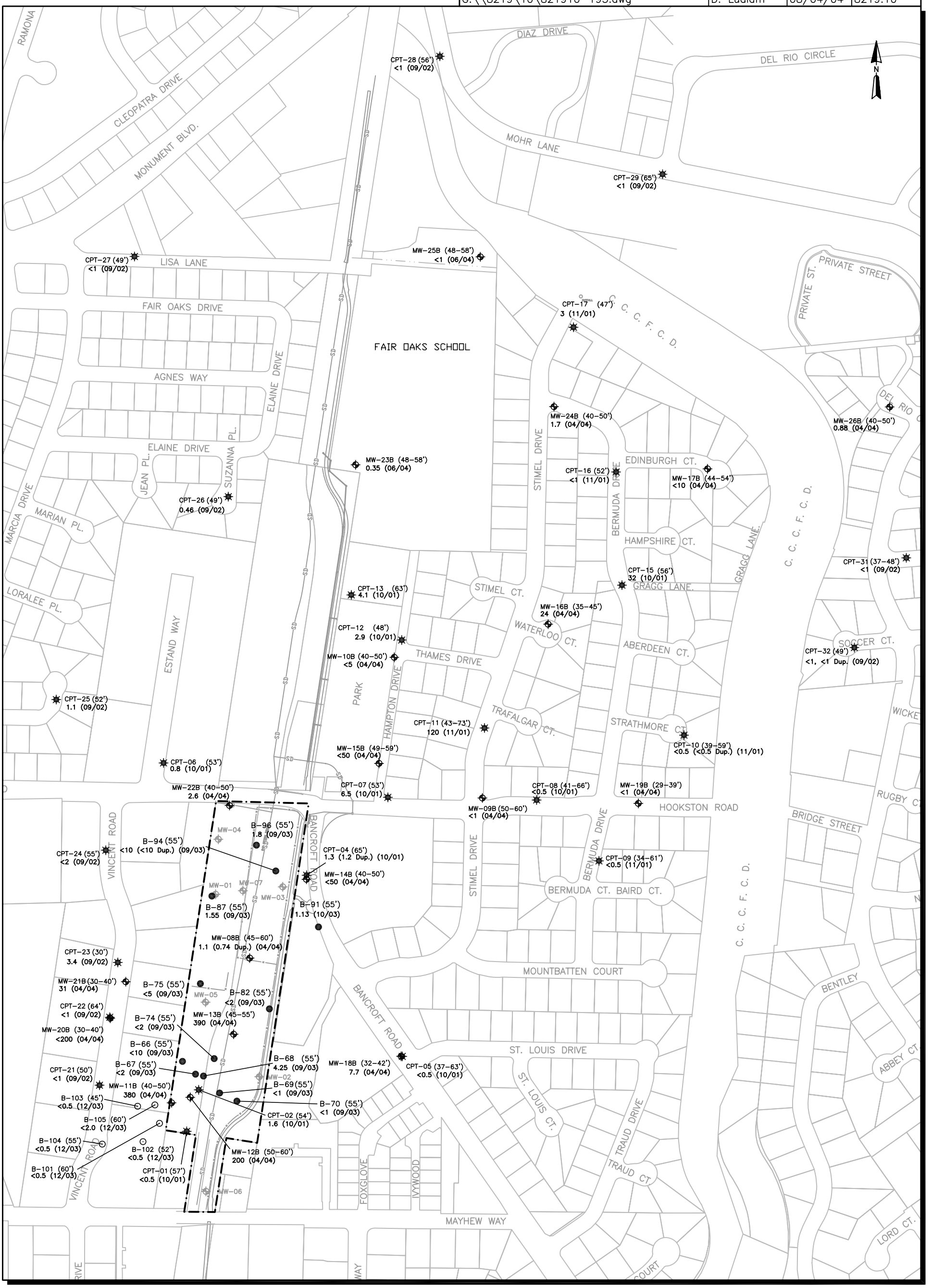
Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇒ cis-1,2-DCE
TCE ⇒ 1,1-DCE

Figure 8-10

TCE Concentrations in Ground Water
B Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-195.dwg	D. Ludlam	08/04/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (30-70') Screened intervals or depth of sample in feet
- 1 to 100 cis-1,2-DCE concentration (μg/L) and date sampled
- Site Boundary

0 300
FEET

Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇒ cis-1,2-DCE
TCE ⇒ 1,1-DCE

Figure 8-11

cis-1,2-DCE Concentrations in Ground Water
B Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
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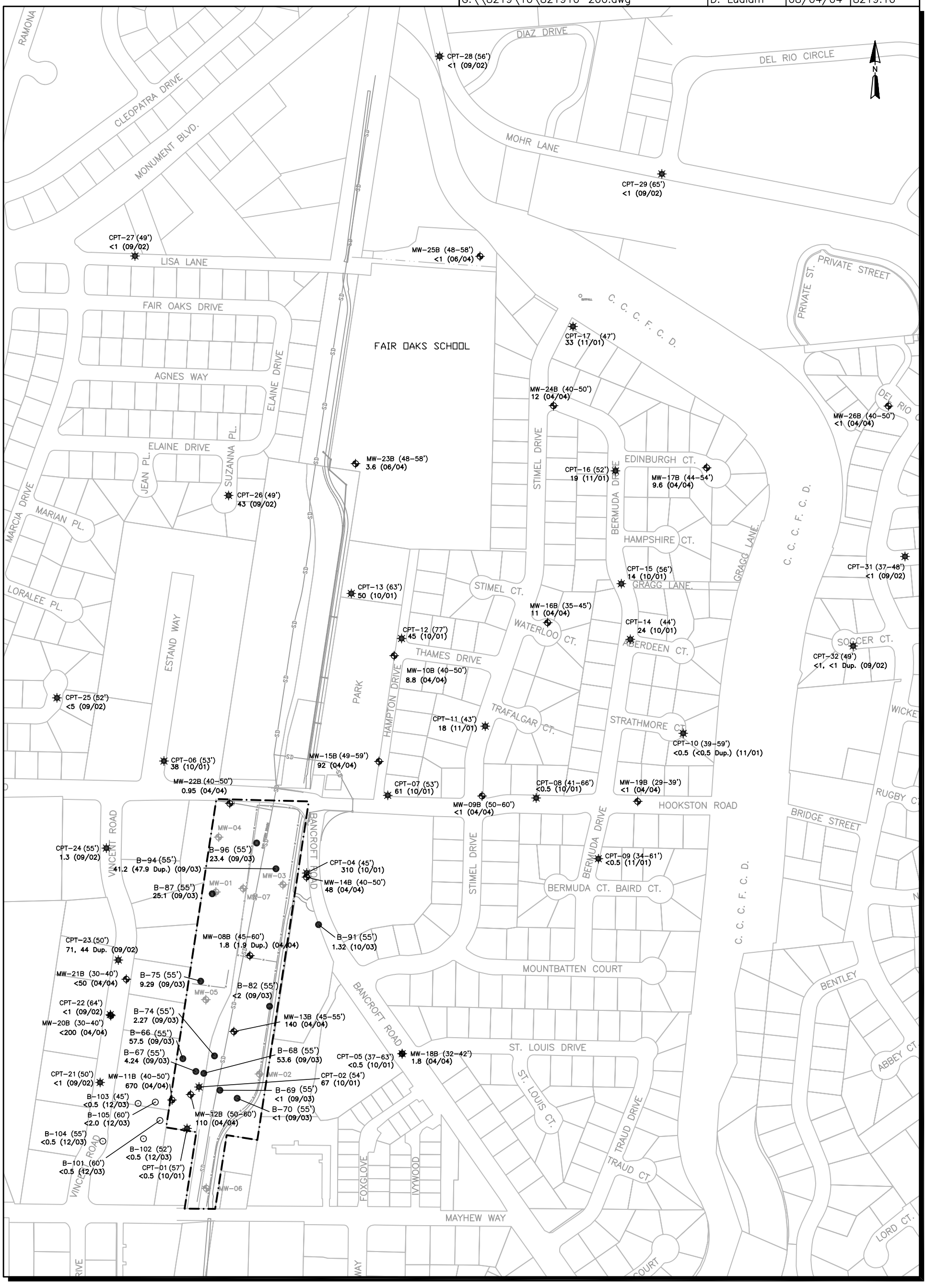

LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (30-70') Screened intervals or depth of sample in feet
- 1 to 100 1,1-DCE concentration (μg/L) and date sampled
- Site Boundary

0 300
FEET

Chlorinated Ethene Transformation Pathway:
PCE ⟹ TCE ⇗ cis-1,2-DCE
TCE ⇘ 1,1-DCE

Figure 8-12

1,1-DCE Concentrations in Ground Water
B Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
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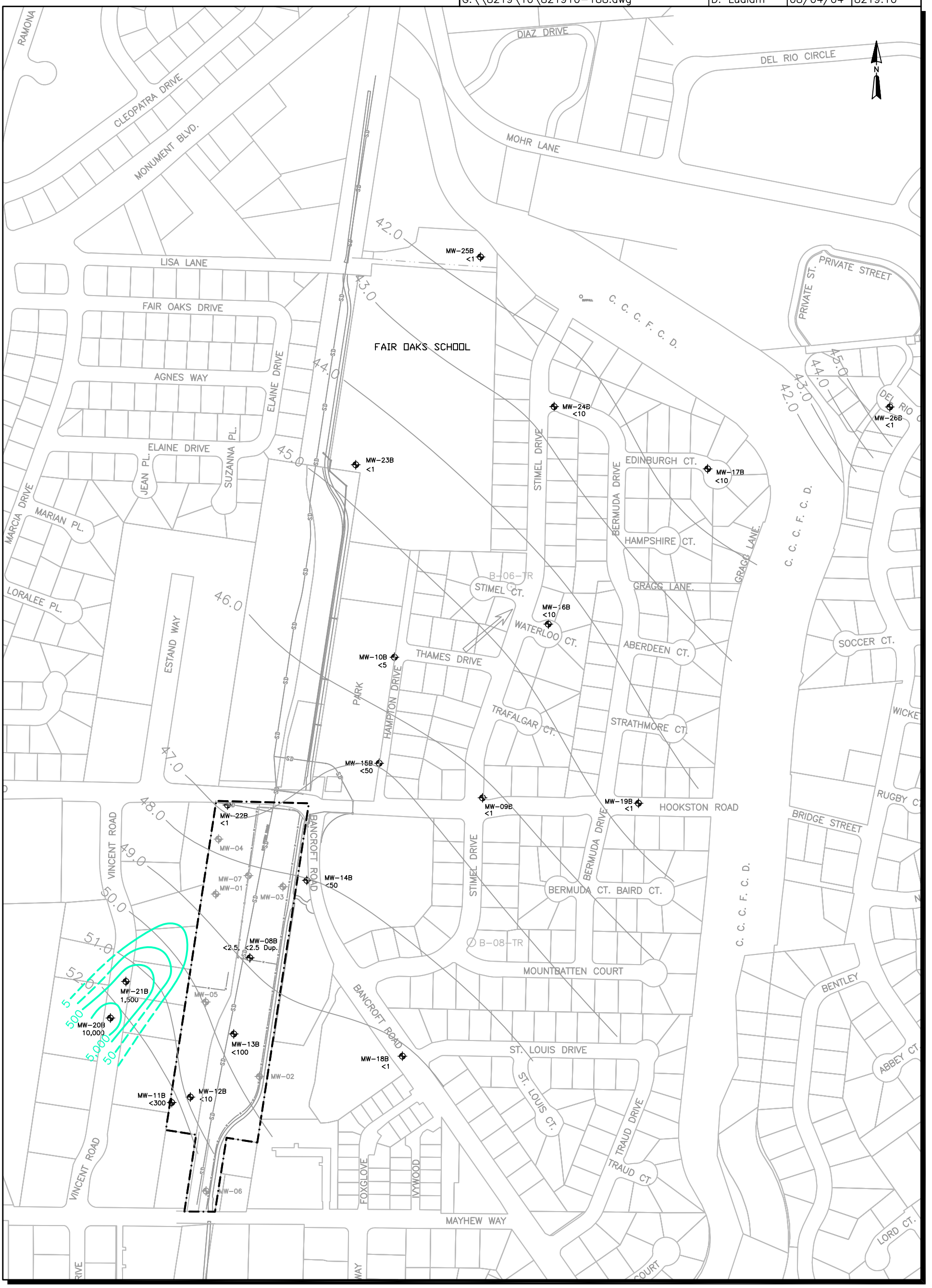


LEGEND

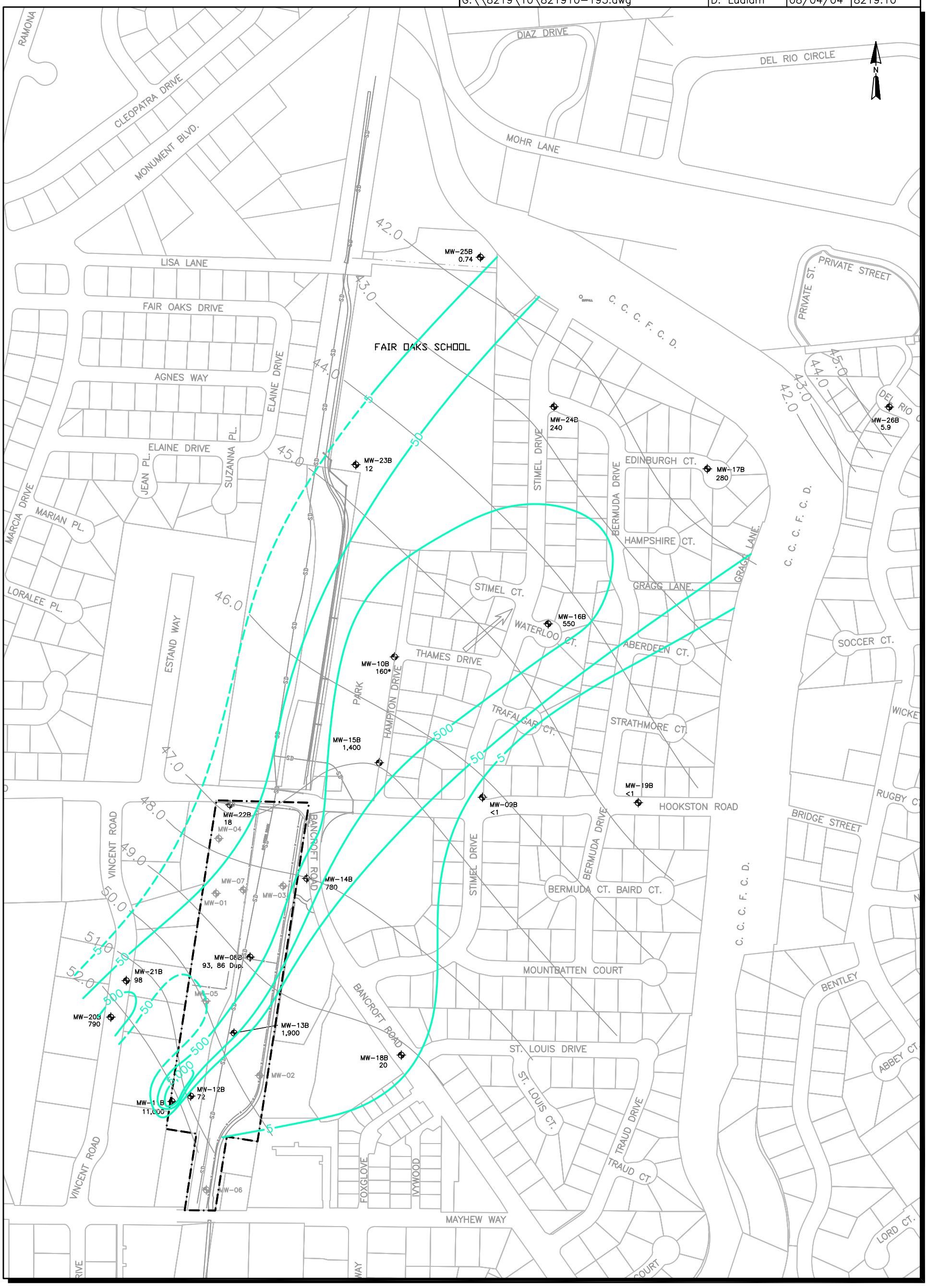
- Monitoring Well location
- 0.79 — PCE concentration (μg/L)
- 1 — PCE in ground water contour, dashed where inferred. Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, B-Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 8-13
PCE Isoconcentration Map
B Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-193.dwg	D. Ludlam	08/04/04	8219.10



LEGEND

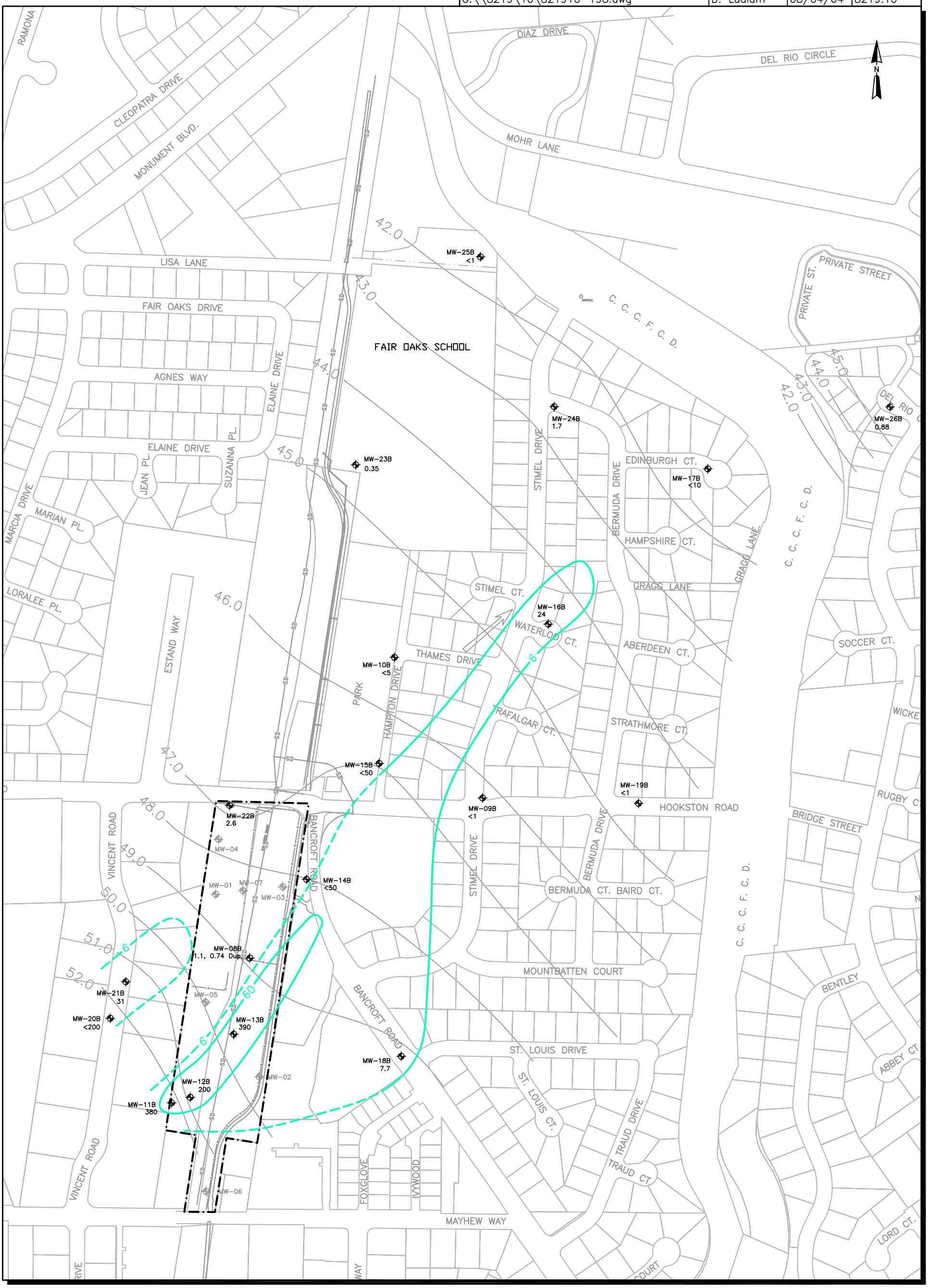
- Monitoring Well location
- 0.79 — TCE concentration (μg/L)
- * — Data not used for contouring based on historical data
- TCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, B-Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 8-14
TCE Isoconcentration Map
B Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-198.dwg	D. Ludlam	08/04/04	8219.10



LEGEND

- Monitoring Well location
- 0.79 — cis–1,1–DCE concentration (μg/L)
- 1 — cis–1,1–DCE in ground water contour, dashed where inferred. Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, B–Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 8-15

cis-1,2-DCE Isoconcentration Map
B Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
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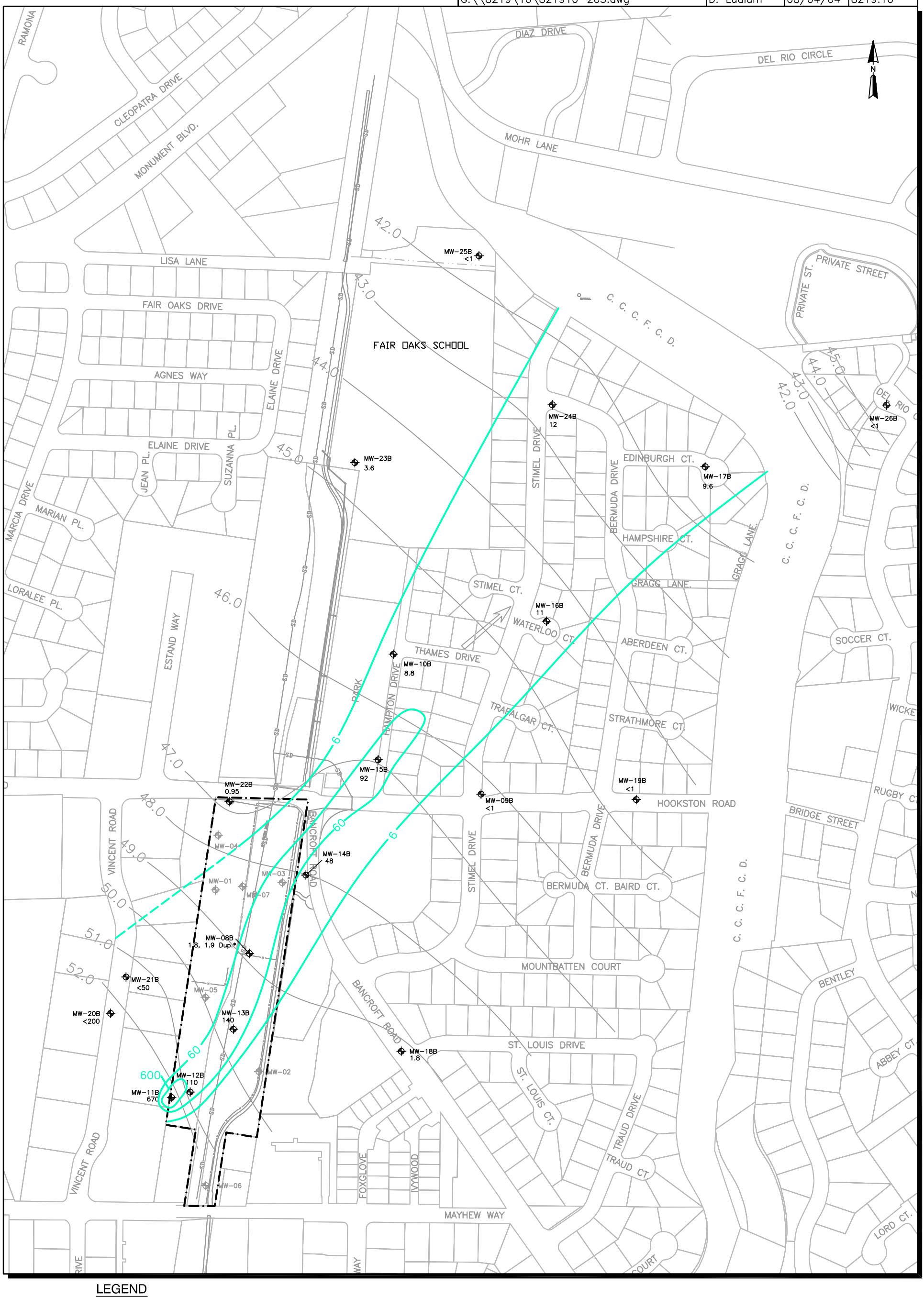


LEGEND

- Monitoring Well location
- 0.79 — 1,1-DCE concentration (μg/L)
- 1 — 1,1-DCE in ground water contour, dashed where inferred. Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, B-Zone, July 2004 (feet above mean sea level)
- * — Data not used for contouring based on historical results

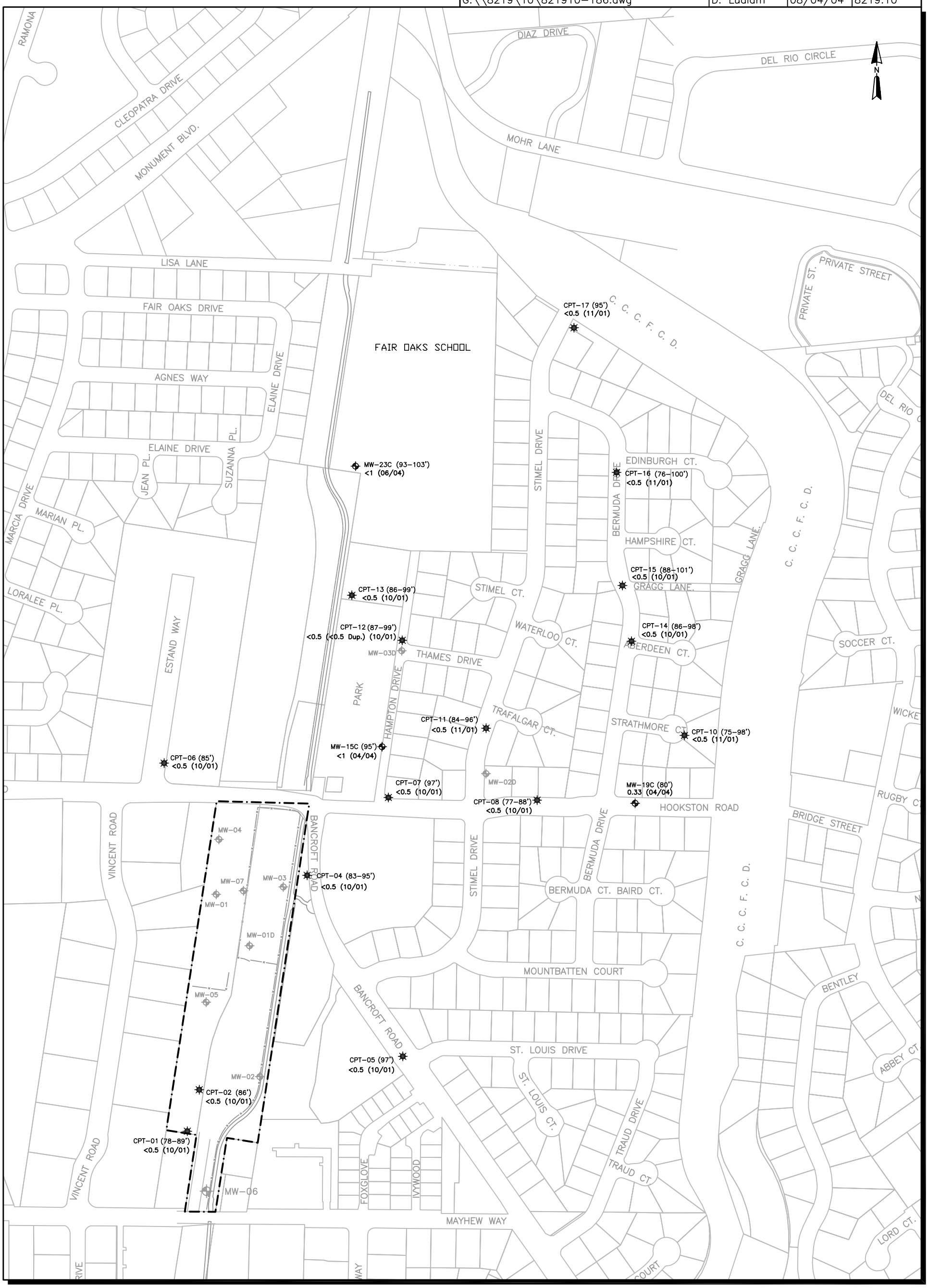
0 300
FEET

Figure 8-16

1,1-DCE Isoconcentration Map
B Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-186.dwg	D. Ludlam	08/04/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (70-72') Screened intervals or depth of sample in feet
- <0.5 (10/01) PCE concentration (μg/L) and date sampled
- Site Boundary

0 300
FEET

Chlorinated Ethene Transformation Pathway:
PCE ⟹ TCE ⇗ cis-1,2-DCE
⇘ 1,1-DCE

Figure 8-17
PCE Concentrations in Ground Water
C Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-191.dwg	D. Ludlam	08/04/04	8219.10

RAMONA
CLEOPATRA DRIVE
MONUMENT BLVD.
DIAZ DRIVE
DEL RIO CIRCLE
MOHR LANE
LISA LANE
FAIR OAKS DRIVE
AGNES WAY
ELAINE DRIVE
JEAN PL.
SUZANNA PL.
MARCIA DRIVE
MARIAN PL.
LORALEE PL.
ESTAND WAY
FAIR OAKS SCHOOL
PARK
C. C. C. F. C. D.
PRIVATE ST.
PRIVATE STREET
DEL RIO C
SOCCER CT.
WICKE
RUGBY CT
BRIDGE STREET
HOOKSTON ROAD
STIMEL DRIVE
STIMEL CT.
BERMUDA DRIVE
EDINBURGH CT.
HAMPSHIRE CT.
GRAGG LANE
WATERLOO CT.
ABERDEEN CT.
THAMES DRIVE
HAMPTON DRIVE
TRAFALGAR CT.
STRATHMORE CT.
VINCENT ROAD
BANCROFT ROAD
BERMUDA CT.
BAIRD CT.
MOUNTBATTEN COURT
ST. LOUIS DRIVE
ST. LOUIS CT.
TRAUD DRIVE
TRAUD CT
FOXGLOVE
IVYWOOD
MAYHEW WAY
ABBEY CT
BENTLEY
LORD CT.

CPT-17 (95')
<0.5 (11/01)

MW-23C (93-103')
0.68 (06/04)

CPT-16 (76-100')
<0.5 (11/01)

CPT-15 (88-101')
<0.5 (10/01)

CPT-14 (86-98')
<0.5 (10/01)

CPT-13 (86-99')
<0.5 (10/01)

CPT-12 (87-99')
<0.5 (0.6 Dup.) (10/01)

MW-03D

CPT-11 (77-96')
1.1 (11/01)

MW-02D

CPT-10 (75-98')
<0.5 (11/01)

MW-15C (95')
6.6 (04/04)

CPT-06 (85')
7.7 (10/01)

CPT-08 (77-88')
<0.5 (10/01)

MW-19C (80')
<1 (04/04)

CPT-07 (97')
<0.5 (10/01)

MW-04
MW-07
MW-03
MW-01
MW-01D
MW-05
MW-02
MW-06

CPT-04 (83-95')
1.3 (10/01)

CPT-23 (72')
<1 (09/02)

CPT-05 (97')
<0.5 (10/01)

CPT-02 (86')
1.4 (10/01)

CPT-01 (78-89')
<0.5 (10/01)

SD

N

LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (70-72') Screened intervals or depth of sample in feet
- 1 to 10 TCE concentration <10 (μg/L) and date sampled
- Site Boundary

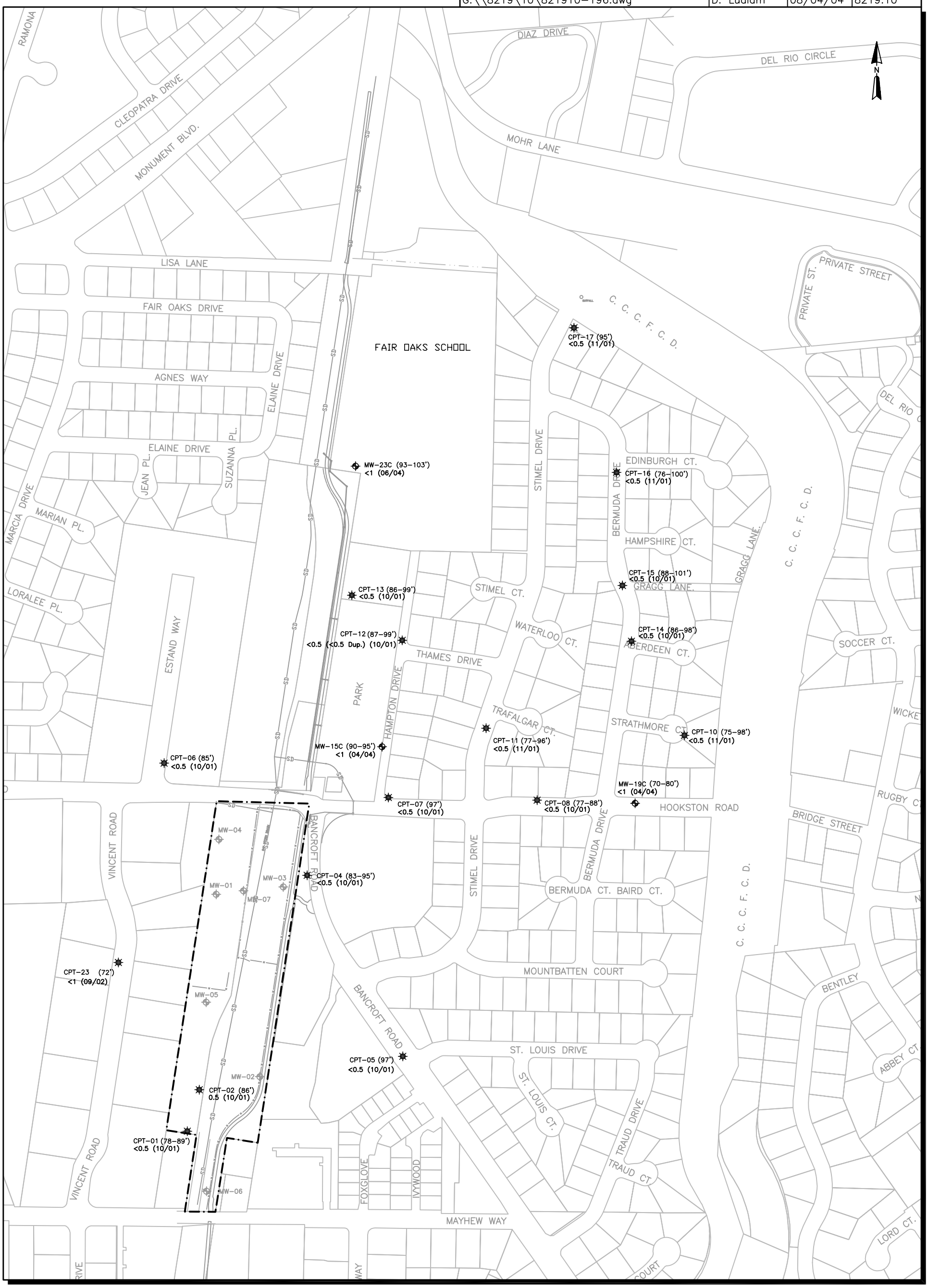
0 300
FEET

Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇒ cis-1,2-DCE
TCE ⇒ 1,1-DCE

Figure 8-18
TCE Concentrations in Ground Water
C Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-196.dwg	D. Ludlam	08/04/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (30-70') Screened intervals or depth of sample in feet
- <0.5 cis-1,2-DCE concentration (μg/L) and date sampled
- Site Boundary

0 300 FEET

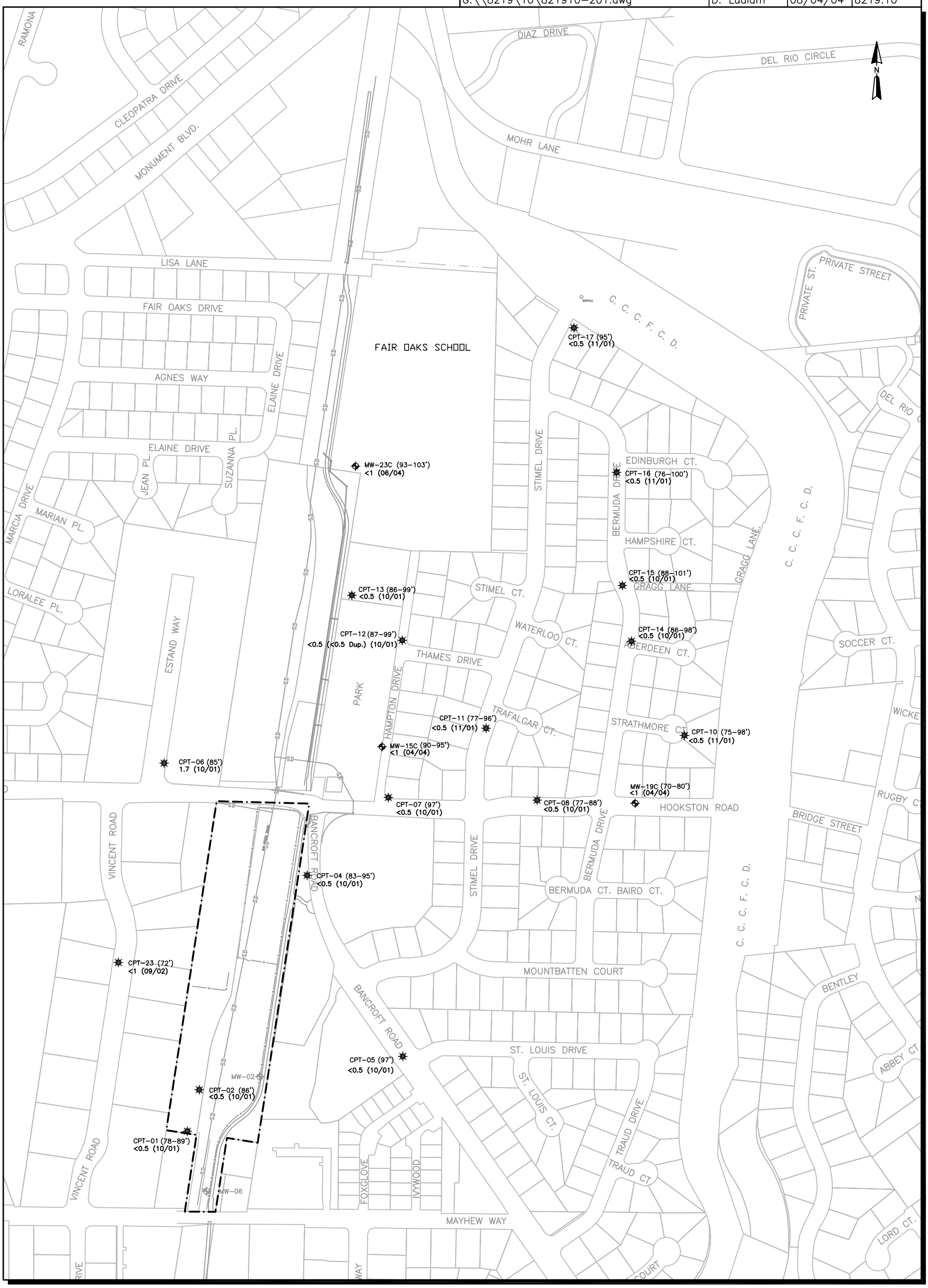
Chlorinated Ethene Transformation Pathway:
PCE ⟹ TCE ⇗ cis-1,2-DCE
TCE ⇘ 1,1-DCE

Figure 8-19

cis-1,2-DCE Concentrations in Ground Water
C Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-201.dwg	D. Ludlam	08/04/04	8219.10



LEGEND

- Monitoring Well location
- Hydropunch location
- Multi-Level CPT ground water sample location
- (70-72') Screened intervals or Depth of sample in feet
- 1 to 10 1,1-DCE concentration (μg/L) and date sampled
- Site Boundary

0 300
FEET

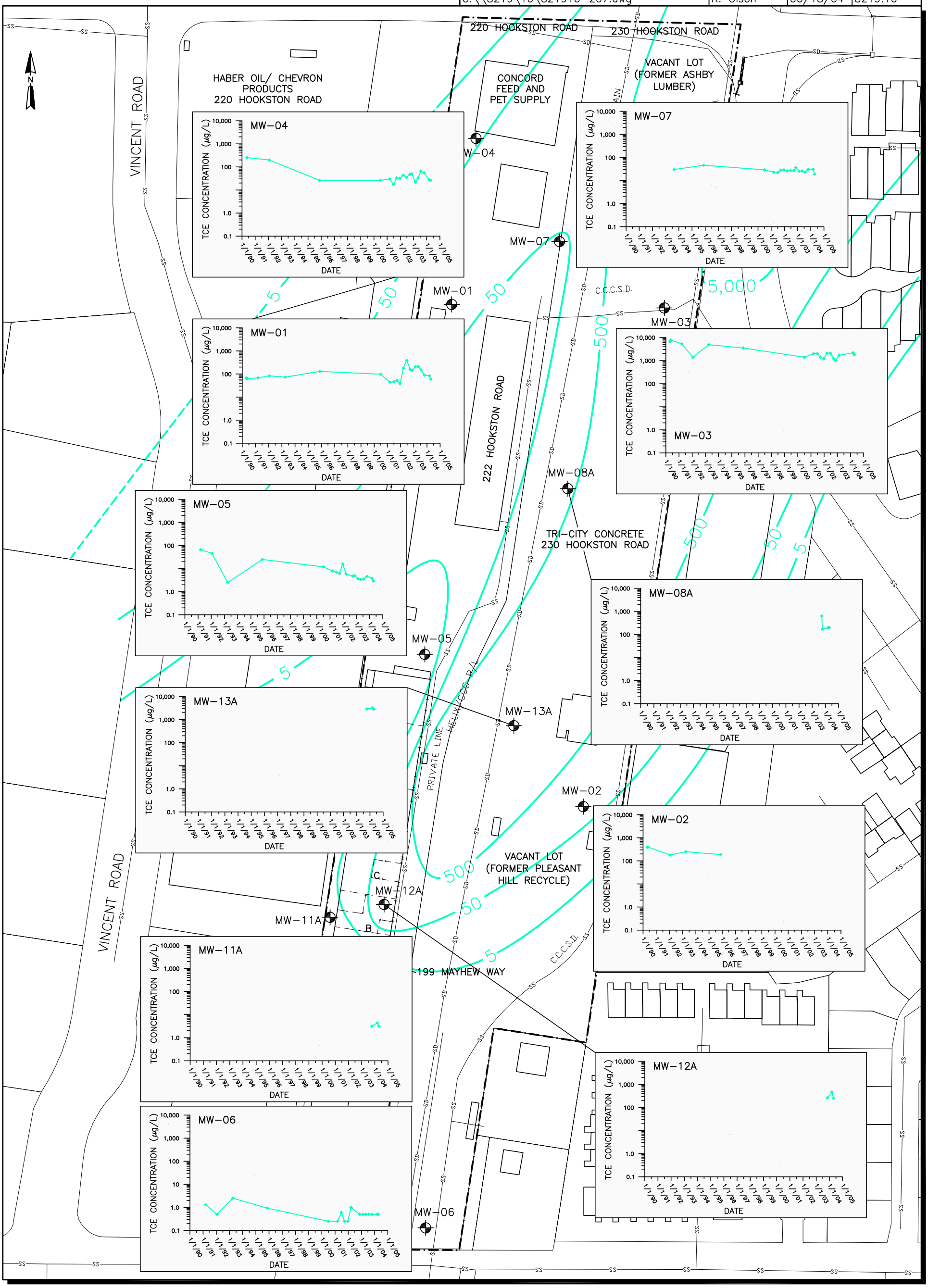
Chlorinated Ethene Transformation Pathway:
PCE ⇒ TCE ⇒ cis-1,2-DCE
TCE ⇒ 1,1-DCE

Figure 8-20

1,1-DCE Concentrations in Ground Water
C Zone
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-207.dwg	R. Olson	06/18/04	8219.10



LEGEND

- Monitoring Well Location
- Site Boundary
- Sanitary Sewer Line
- Storm Drain Line
- 5 — TCE in Ground Water Contour; Dashed Where Inferred

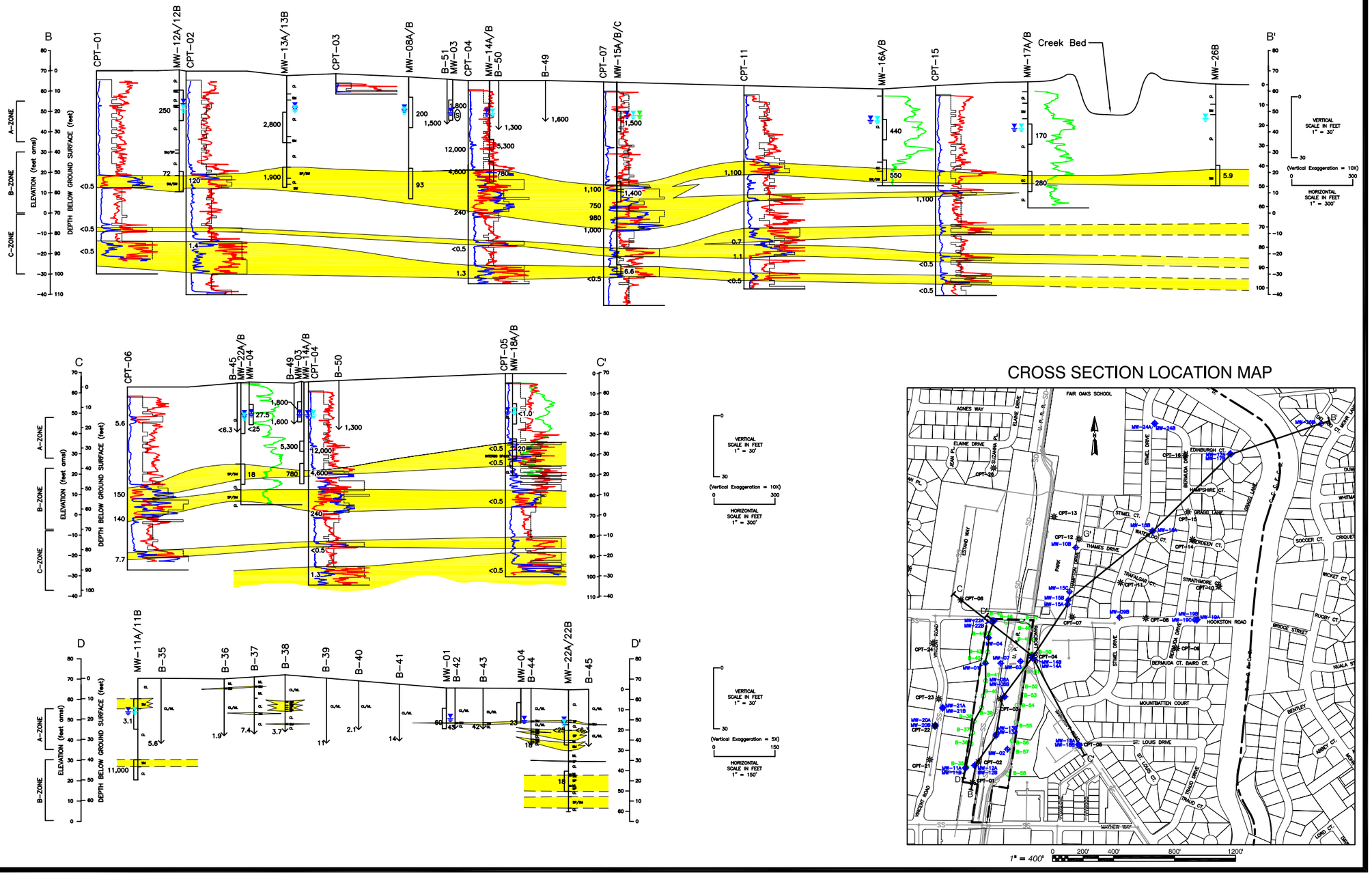
0 100 FEET

Figure 8-21

TCE Concentrations in A-Zone Monitoring Wells Hookston Station Project Pleasant Hill, California

ERM 06/04

CAD File: G:\8219\10\821910-180.dwg | Drawn By: R. Olson | Date: 06/08/04 | Project No: 8219.10



CROSS SECTION LOCATION MAP

Legend

- Monitoring Well, A Zone
- Monitoring Well, B Zone
- Monitoring Well, C Zone
- CPT Ground Water Sample Location
- Shallow Hydropunch Location
- Sewer Pipe
- 120 TCE Concentration (µg/L)

Note: Data posted for all monitoring wells collected 2nd Quarter 2004. Data posted for CPTs collected 4th Quarter 2001 through 3rd Quarter 2002. Data posted fo hydropunches collected 1st Quarter 1993 through 4th Quarter 2003.

- A-Zone — A-Zone Aquifer; Generally 15–35 ft below ground surface
- B-Zone — B-Zone Aquifer; Generally 40–70 ft below ground surface
- C-Zone — C-Zone Aquifer; Generally 70–100 ft below ground surface
- Site Boundary
- Coarse-Grained Deposits

- A-Zone Ground Water Elevation (ft amsl)
- B-Zone Ground Water Elevation (ft amsl)
- C-Zone Ground Water Elevation (ft amsl)

Note: Water Levels measured on 19 April 2004.

MONITORING WELL — Screened Interval

HYDROPUNCH

SBT Soil Behavior Type
Qt Corrected Tip Load
Rf Averaged Friction Ratio

CPT GROUND WATER SAMPLE

CONDUCTIVITY (mS/m)

Figure 8-22
TCE in Ground Water Cross Sections
Hookston Station Project
Pleasant Hill, California

ERM 06/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-179.dwg	D. Ludlam	06/08/04	8219.10

FC-8848-L

6/20/2002	TCE	1.0

FC-7200-L

4/19/2002	TCE	1

FC-5570-L

9/14/2001	TCE	0.9
9/14/2001	Toluene	0.7
4/19/2002	TCE	1.2
4/19/2002	cis-1,2-DCE	0.5
4/19/2002	MTBE	1.2
6/20/2002	TCE	1.7
6/20/2002	cis-1,2-DCE	0.6

FC-5091-L

6/20/2002	PCE	2.6
6/20/2002	TCE	1.4
6/20/2002	MTBE	8.3

FC-4630-L

9/14/2001	TCE	0.8
9/14/2001	Toluene	0.7

FC-4095-L

6/20/2002	TCE	1.8
6/20/2002	cis-1,2-DCE	0.6

FC-4060-L

7/20/2001	TCE	2.7
7/20/2001	cis-1,2-DCE	1

FC-3940-L

6/25/2001	TCE	3.3
6/25/2001	cis-1,2-DCE	1.4
7/20/2001	TCE	2.5 (Dup. 2.8)
7/20/2001	cis-1,2-DCE	1.0 (Dup. 1.0)
9/14/2001	TCE	1.2
9/14/2001	Toluene	0.8
4/19/2002	TCE	1.7
4/19/2002	cis-1,2-DCE	0.5

FC-3830-L

9/14/2001	TCE	0.9
9/14/2001	Toluene	0.8

FC-3430-R

9/14/2001	Toluene	0.8

FC-3940-R

9/14/2001	TCE	0.8
9/14/2001	Toluene	0.8

FC-3630-L

9/14/2001	TCE	0.7
9/14/2001	Toluene	0.5

FC-3430-L

9/14/2001	Toluene	0.8

FC-3230-L

9/14/2001	Toluene	0.7

FC-2830-L

9/14/2001	Toluene	0.6

FC-2630-L (FC-02)

FC-2210-L

9/14/2001	Toluene	0.7

FC-2210-R

9/14/2001	Toluene	0.7

FC-1905-L (FC-01)

FC-154-L

LEGEND

FC-154-L — Canal Surface Water Sample, micrograms per Liter (µg/L)

Site Boundary

0 600

FEET

Figure 9-1

VOCs in Surface Water Samples
Hookston Station Project
Pleasant Hill, California

ERM 05/04

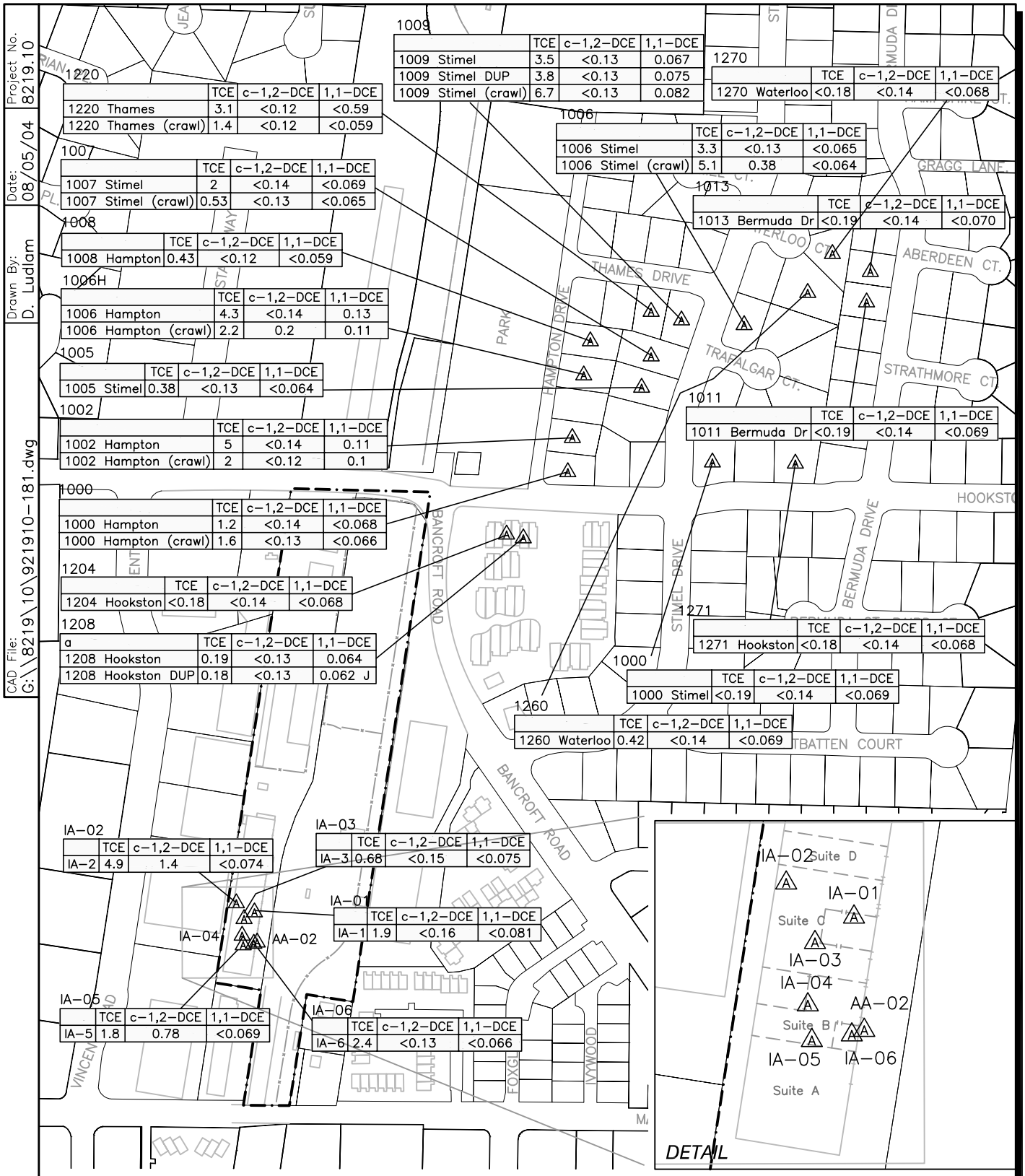


Figure 10-1

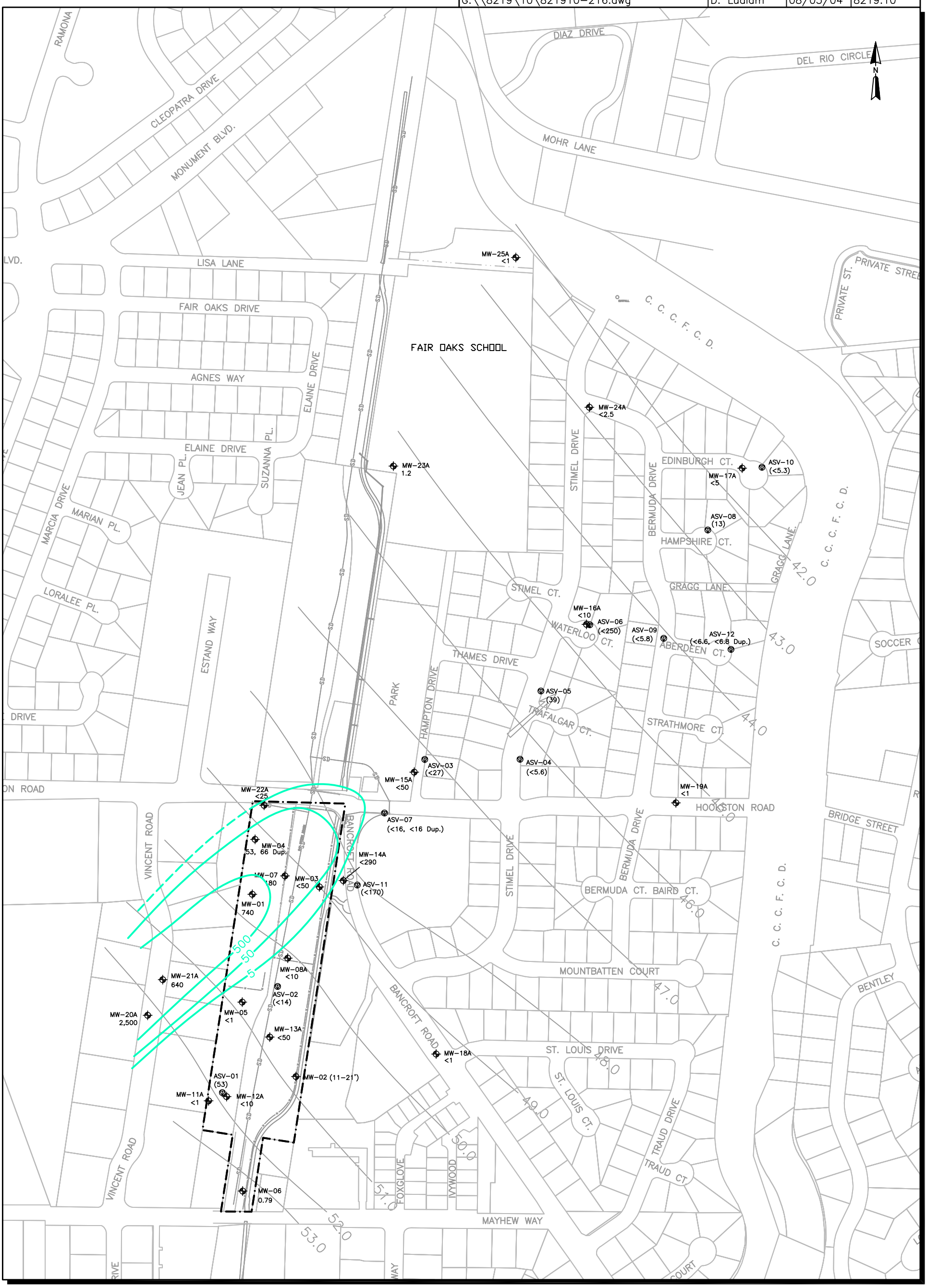
VOCs in Air Samples

Hookston Station Project

Pleasant Hill, California

ERM 05/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-216.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

0.79 — Monitoring Well location
PCE A Zone ground water concentration (µg/L); Second Quarter 2004

(39) — Active Soil Vapor Sample Location
PCE Soil Vapor Concentration (µg/m³); Fourth Quarter 2003

1 — PCE in ground water contour, dashed where inferred

Site Boundary

Ground water elevation contour, A–Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 11-1

PCE Results - A Zone Ground Water and Shallow Soil Vapor
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
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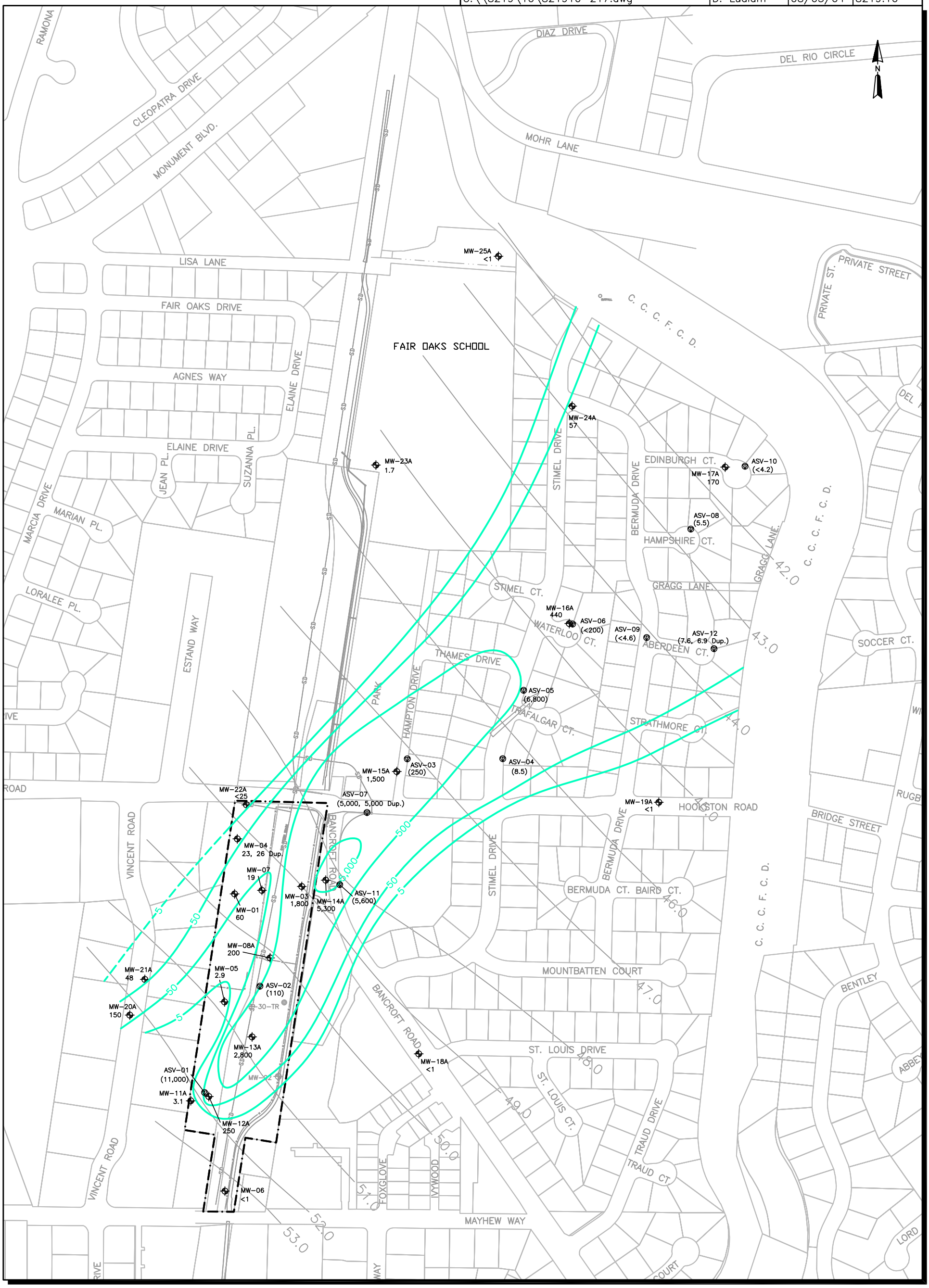


LEGEND

0.79 — Monitoring Well location
TCE A Zone ground water concentration (µg/L); Second Quarter 2004

(39) — Active Soil Vapor Sample Location
TCE Soil Vapor Concentration (µg/m³); Fourth Quarter 2003

1 — TCE in ground water contour, dashed where inferred
Site Boundary

Ground water elevation contour, A–Zone, July 2004 (feet above mean sea level)

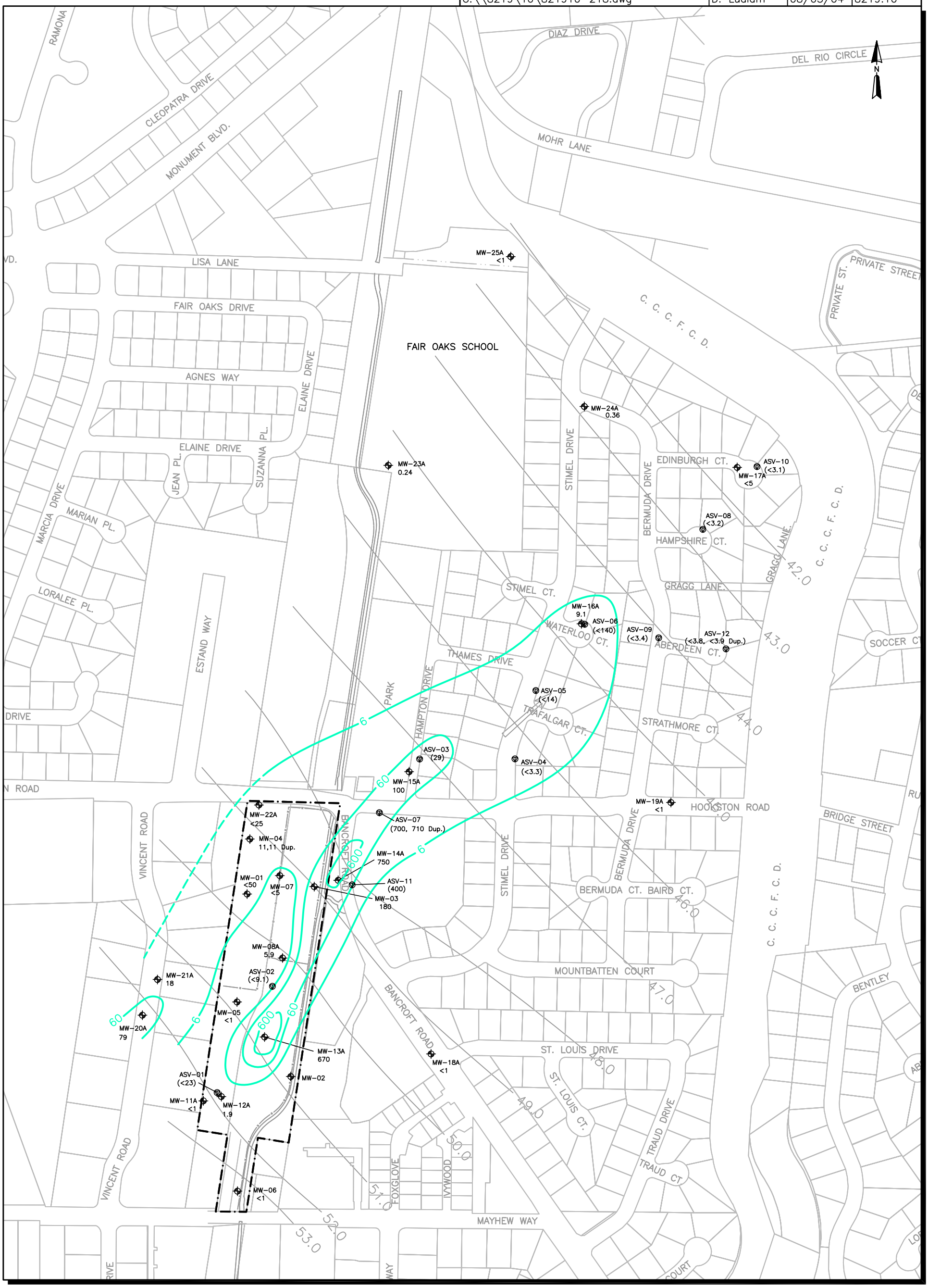
0 300
FEET

Figure 11-2

TCE Results - A Zone Ground Water and Shallow Soil Vapor
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-218.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

0.79 — Monitoring Well location
cis-1,1-DCE A-Zone ground water concentration (µg/L); Second Quarter 2004

(29) — Active Soil Vapor Sample Location
cis-1,1-DCE Soil Vapor Concentration (µg/m³); Fourth Quarter 2003

1 — cis-1,1-DCE in ground water contour, dashed where inferred
Site Boundary

Ground water elevation contour, A-Zone, July 2004 (feet above mean sea level)

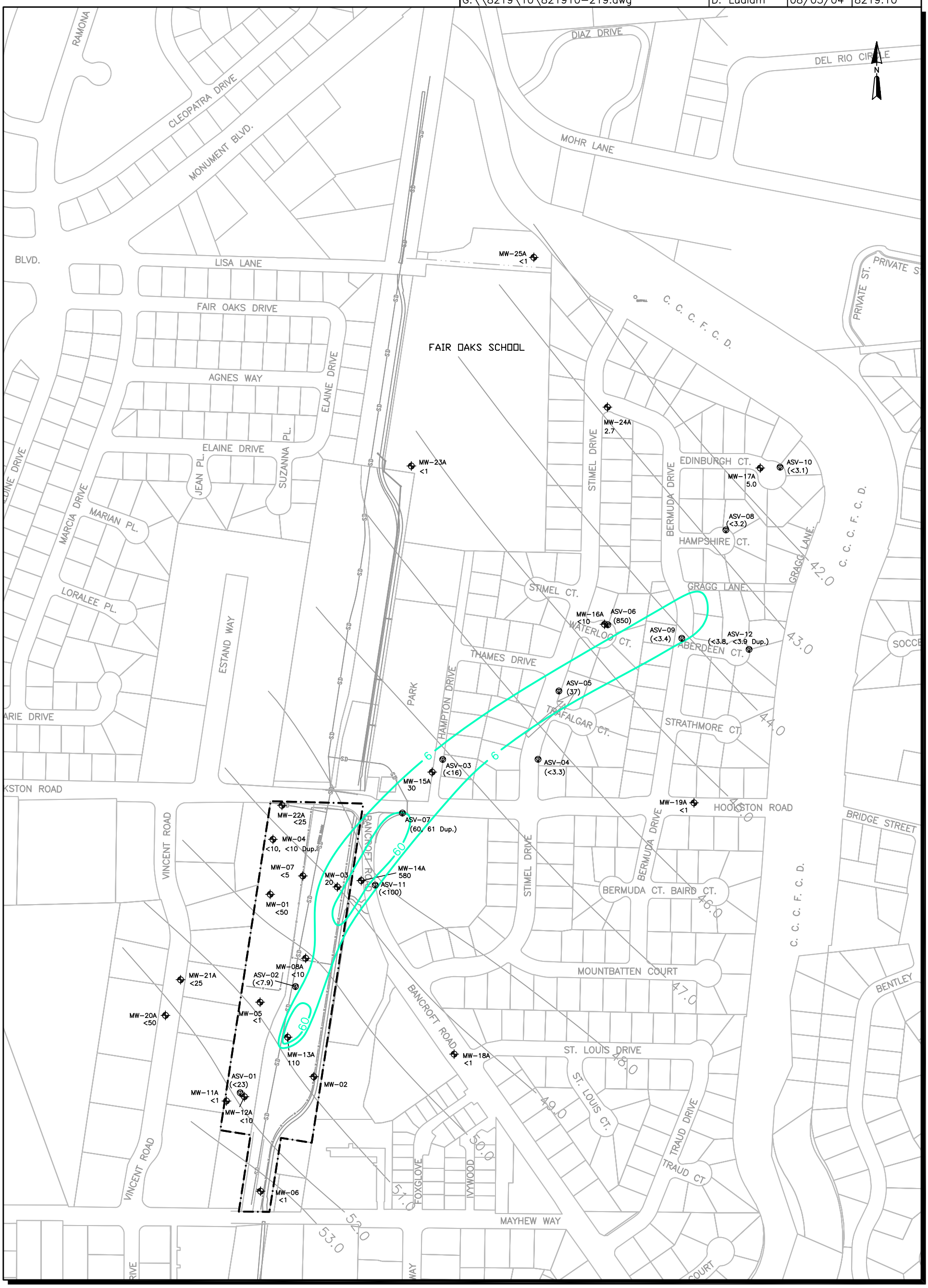
0 300
FEET

Figure 11-3

cis-1,2-DCE Results - A Zone Ground Water and Shallow Soil Vapor
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-219.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

- ⌖ 0.79 — Monitoring Well location; 1,1–DCE A–Zone ground water concentration (µg/L); Second Quarter 2004
- ▽ (37) — Active Soil Vapor Sample Location; 1,1–DCE Soil Vapor Concentration (µg/m³); Fourth Quarter 2003
- 1 — 1,1–DCE in ground water contour, dashed where inferred
- Site Boundary
- Ground water elevation contour, A–Zone, July 2004 (feet above mean sea level)

0 300
FEET

Figure 11-4

1,1-DCE Results - A Zone Ground Water and Shallow Soil Vapor
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
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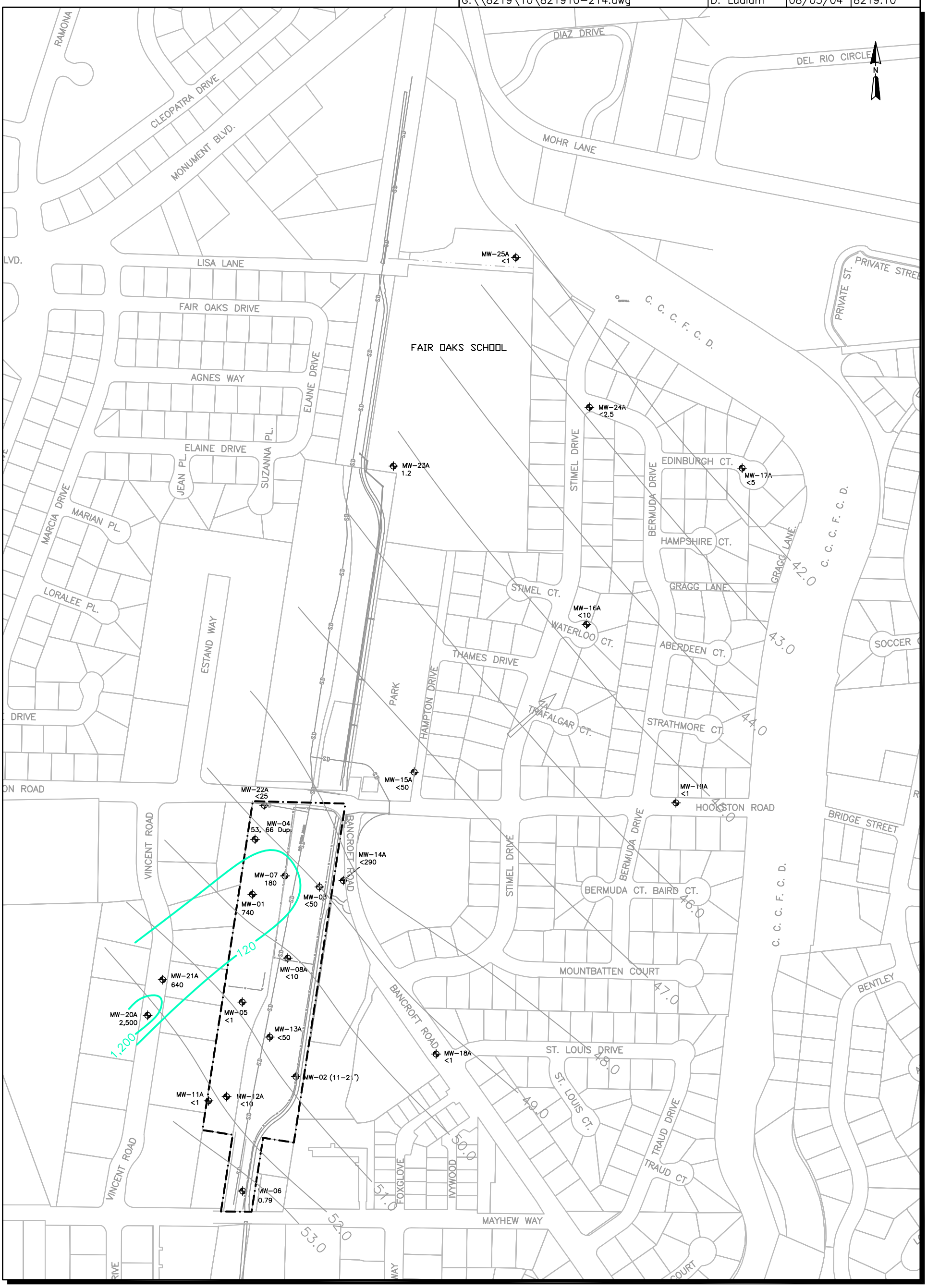

LEGEND

Monitoring Well location

0.79 PCE concentration (μg/L)

1 PCE in ground water contour, dashed where inferred
Data collected second quarter 2004

Site Boundary

Ground water elevation contour, A–Zone, July 2004 (feet above mean sea level)

Note: RWQCB lowest (Chronic) freshwater Surface Water Body Habitat Goal = 120 μg/L PCE

0 300
FEET

Figure 11-5
PCE Ground Water Concentrations, Compared to Chronic Surface Water Standards
A Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
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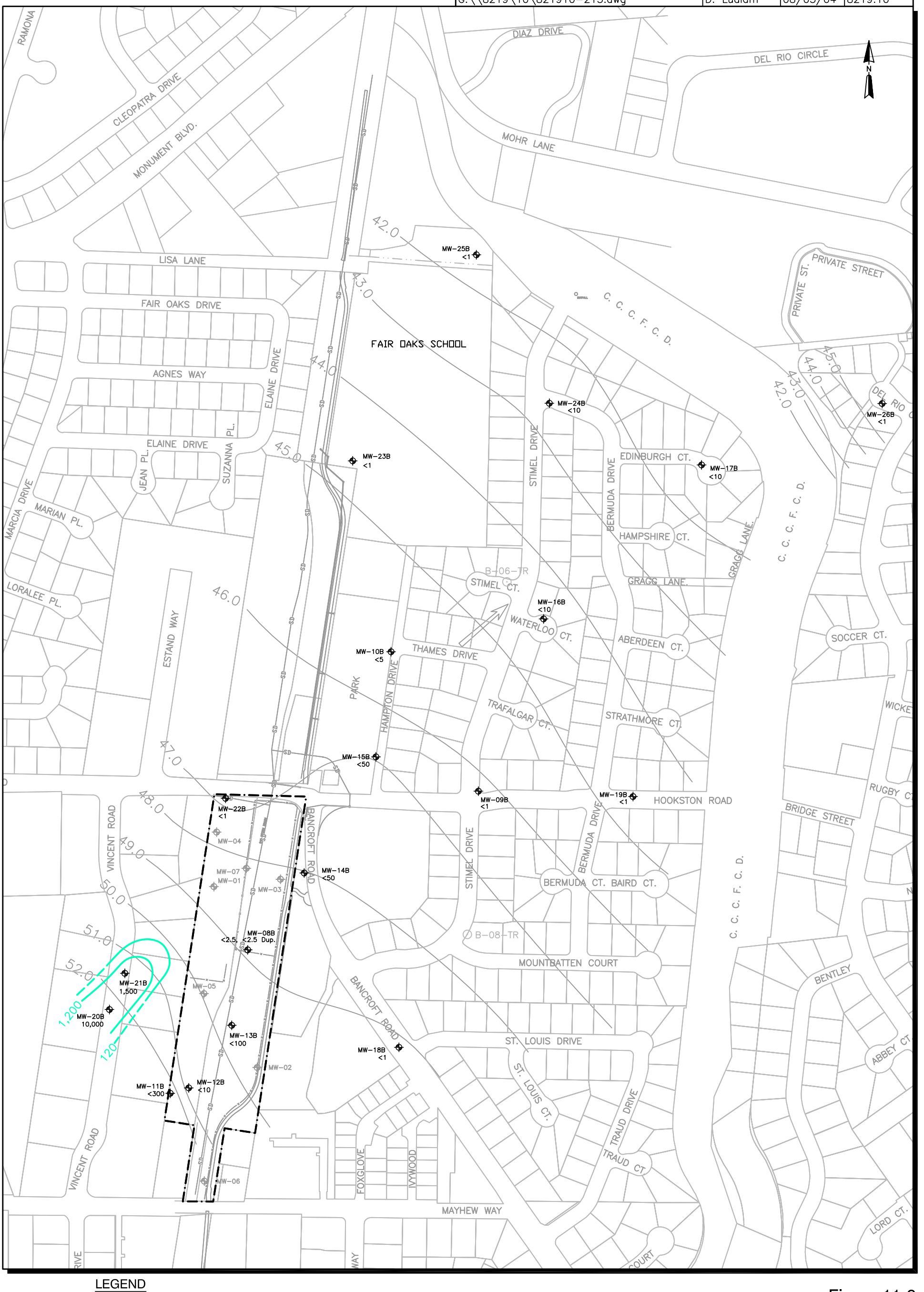


LEGEND

- Monitoring Well location
- 0.79 — PCE concentration (μg/L)
- PCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, B-Zone, July 2004 (feet above mean sea level)

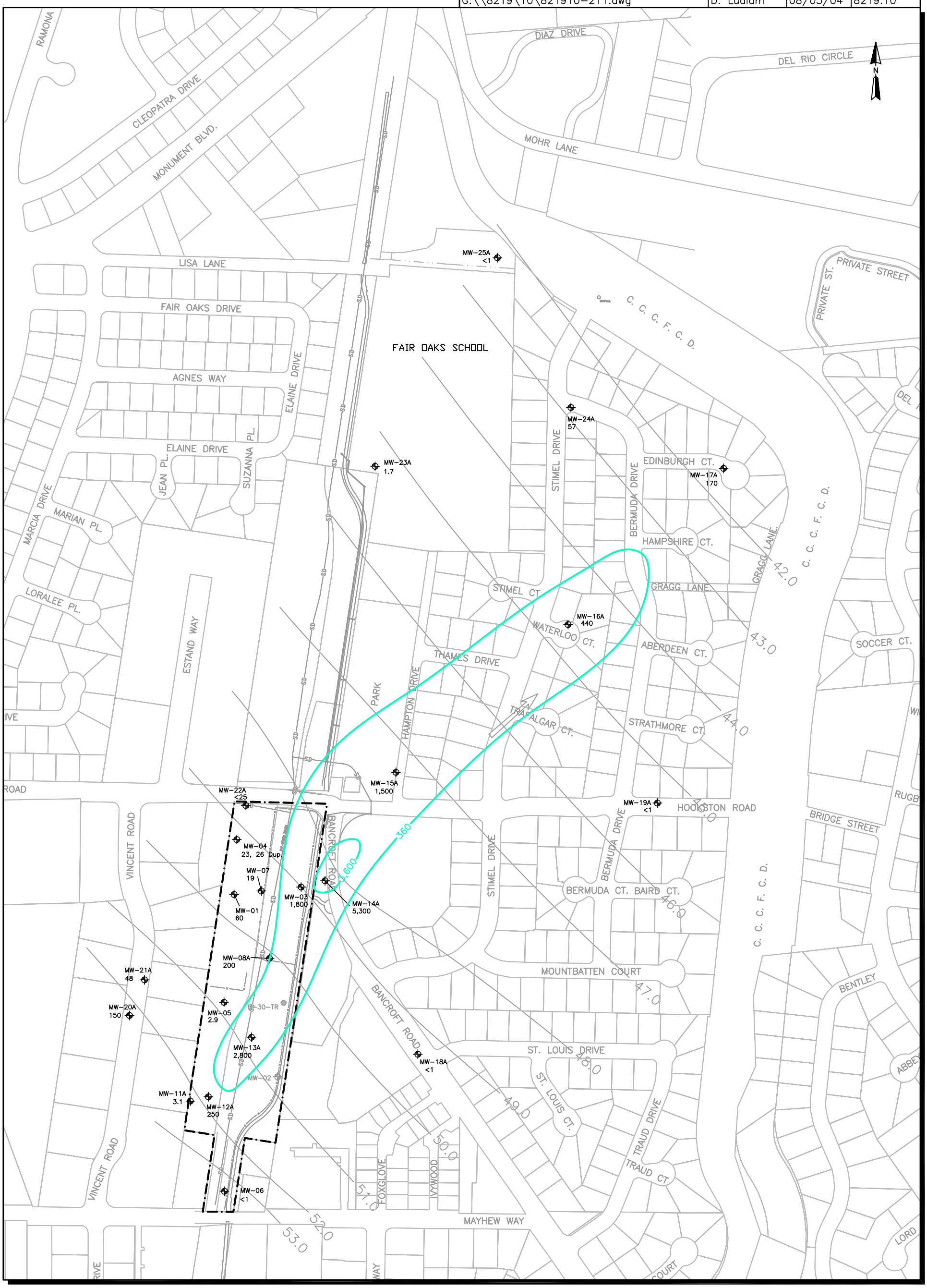
Note: RWQCB lowest (Chronic) freshwater Surface Water Body Habitat Goal = 120 μg/L PCE

0 300
FEET

Figure 11-6
PCE Ground Water Concentrations, Compared to Chronic Surface Water Standards
B Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
G:\\8219\10\821910-211.dwg	D. Ludlam	08/05/04	8219.10



LEGEND

- Monitoring Well location
- 0.79 — TCE concentration (µg/L)
- 1 — TCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, A–Zone, July 2004 (feet above mean sea level)

Note: RWQCB lowest (Chronic) freshwater Surface Water Body Habitat Goal = 360 µg/L TCE

0 300
FEET

Figure 11-7

TCE Ground Water Concentrations, Compared to Chronic Surface Water Standards
A Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
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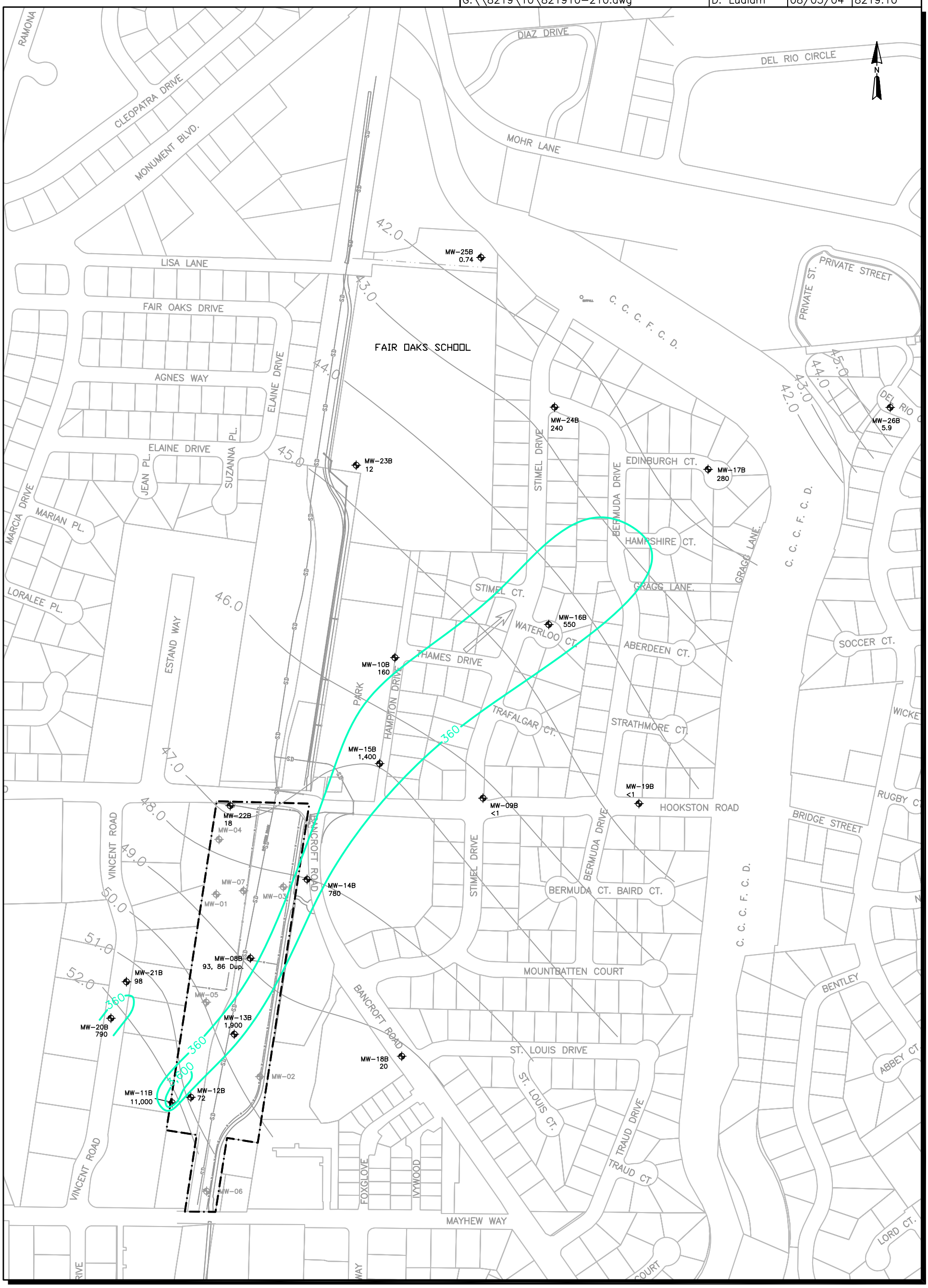

LEGEND

- Monitoring Well location
- 0.79 — TCE concentration (μg/L)
- 1 — TCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, B-Zone, July 2004 (feet above mean sea level)

Note: RWQCB lowest (Chronic) freshwater Surface Water Body Habitat Goal = 360 μg/L TCE

0 300
FEET

Figure 11-8

TCE Ground Water Concentrations, Compared to Chronic Surface Water Standards
B Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
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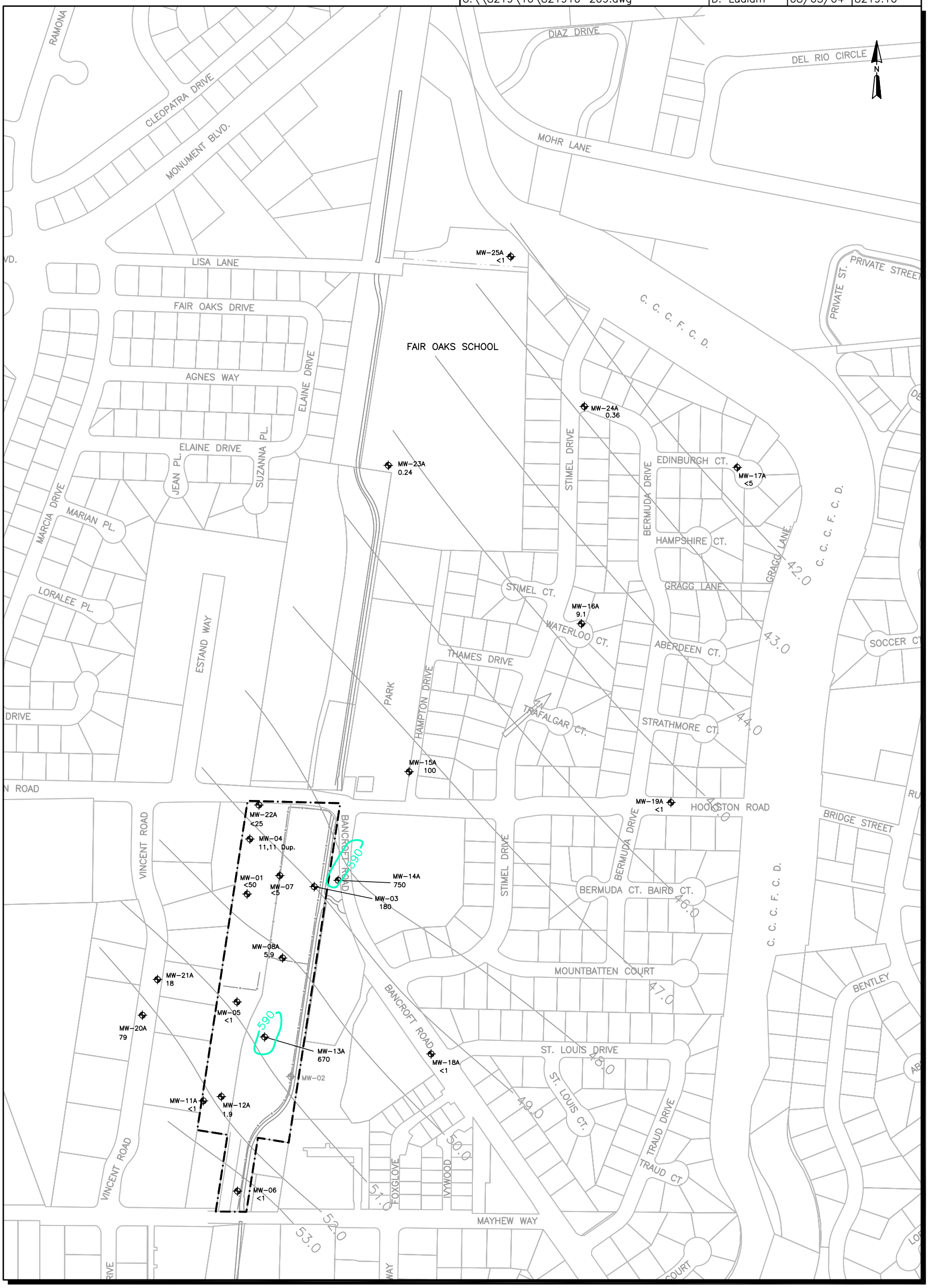

LEGEND

- Monitoring Well location
- 0.79 — cis-1,1-DCE concentration (µg/L)
- 1 — cis-1,1-DCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, A-Zone, July 2004 (feet above mean sea level)

Note: RWQCB lowest (Chronic) freshwater Surface Water Body Habitat Goal = 590 µg/L cis-1,2-DCE

0 300
FEET

Figure 11-9

cis-1,2-DCE Ground Water Concentrations, Compared to Chronic Surface Water Standards
A Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
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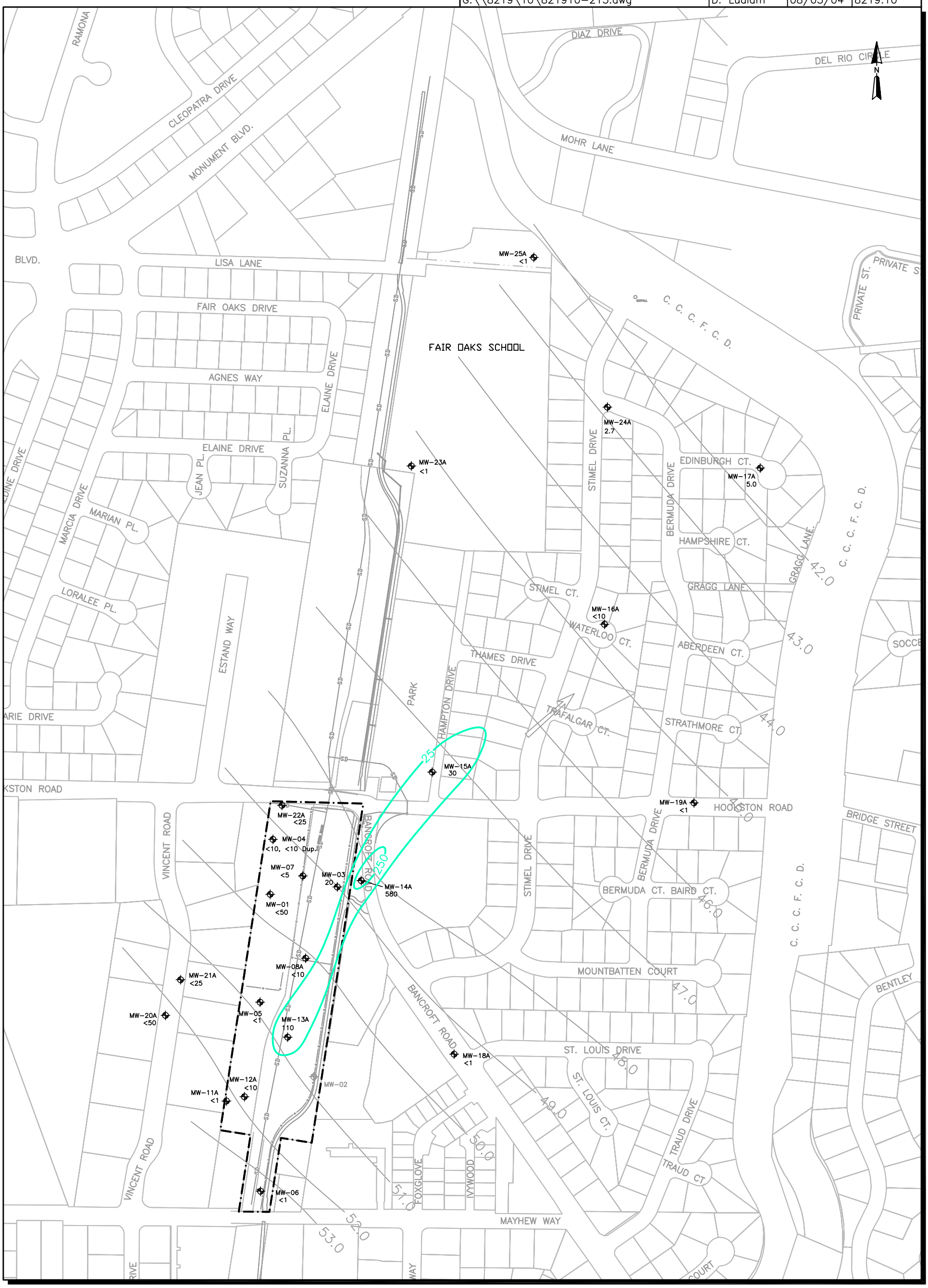

LEGEND

Monitoring Well location

0.79 — 1,1-DCE concentration (μg/L)

1 — 1,1-DCE in ground water contour, dashed where inferred
Data collected second quarter 2004

Site Boundary

Ground water elevation contour, A-Zone, July 2004 (feet above mean sea level)

Note: RWQCB lowest (Chronic) freshwater Surface Water Body Habitat Goal = 25 μg/L cis-1,1-DCE

0 300
FEET

Figure 11-10

1,1-DCE Ground Water Concentrations, Compared to Chronic Surface Water Standards
A Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File:	Drawn By:	Date:	Project No.
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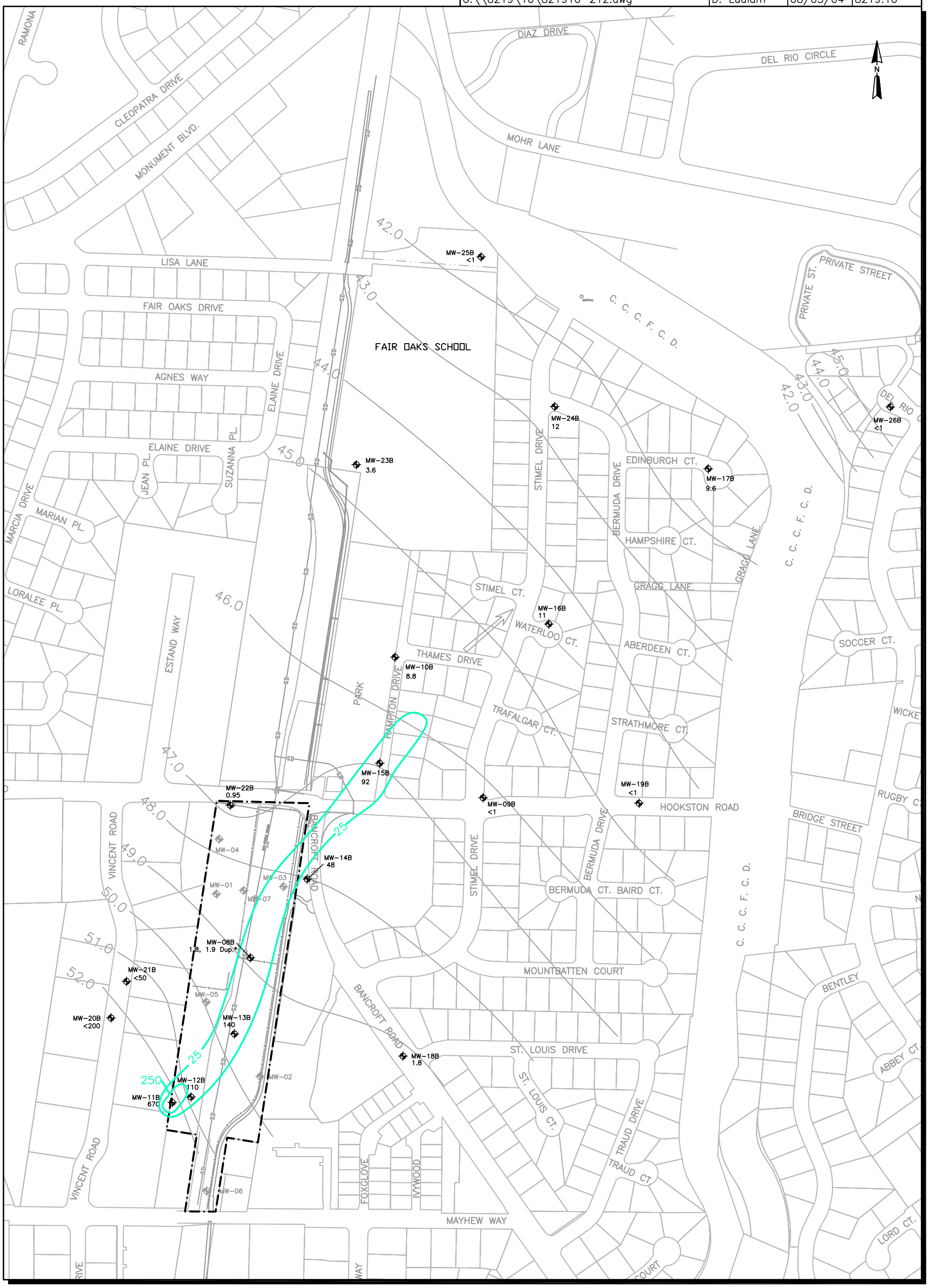

LEGEND

- Monitoring Well location
- 0.79 — 1,1-DCE concentration (µg/L)
- 1 — 1,1-DCE in ground water contour, dashed where inferred
  Data collected second quarter 2004
- Site Boundary
- Ground water elevation contour, B-Zone, July 2004 (feet above mean sea level)
- * Data not used for contouring based on historical results

Note: RWQCB lowest (Chronic) freshwater Surface Water Body Habitat Goal = 25 µg/L cis-1,1-DCE

0 300
FEET

Figure 11-11

1,1-DCE Ground Water Concentrations, Compared to Chronic Surface Water Standards
B Zone Ground Water
Hookston Station Project
Pleasant Hill, California

ERM 07/04

CAD File: G:\8219/10/821910-182.dwg
Drawn By: D. Ludlam
Date: 08/04/04
Project No. 8219.10

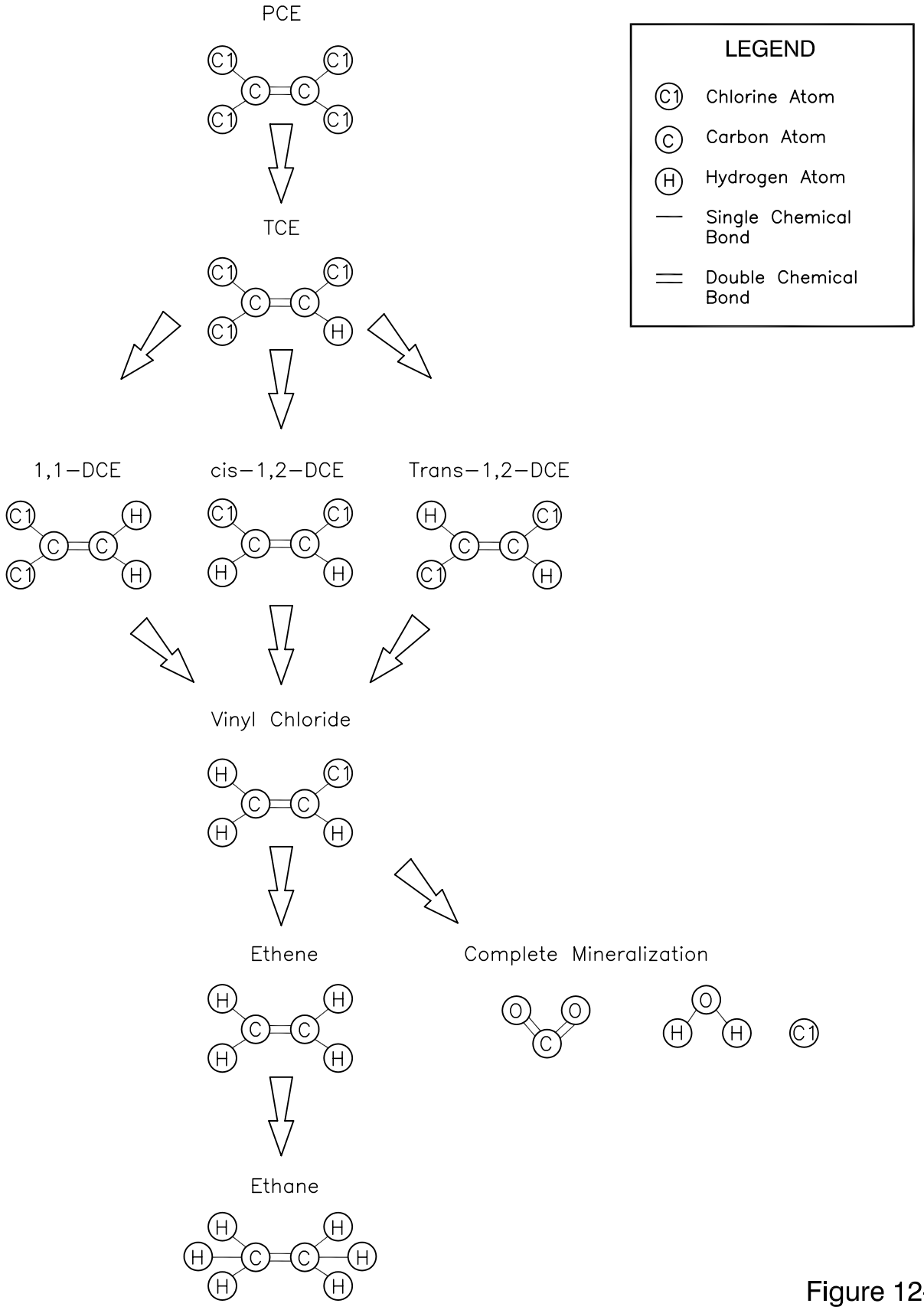

Figure 12-1

Reductive Dehalogenation of Chlorinated Ethenes
Hookston Station Project
Pleasant Hill, California

(from Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water; USEPA, September 1998)

ERM *09/01*