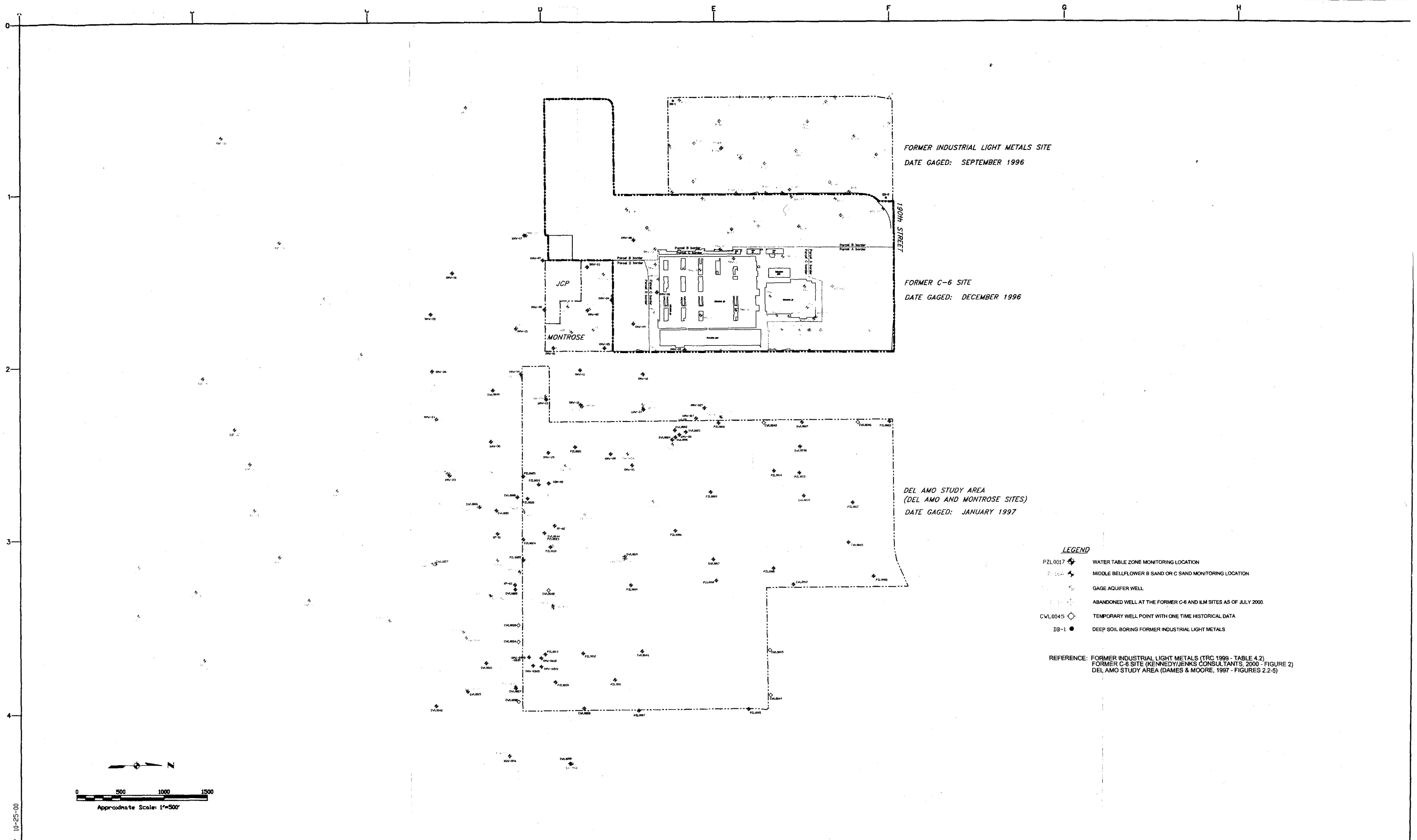

K:\BOEING\MDRC\GE-WELLMAP 10-25-00

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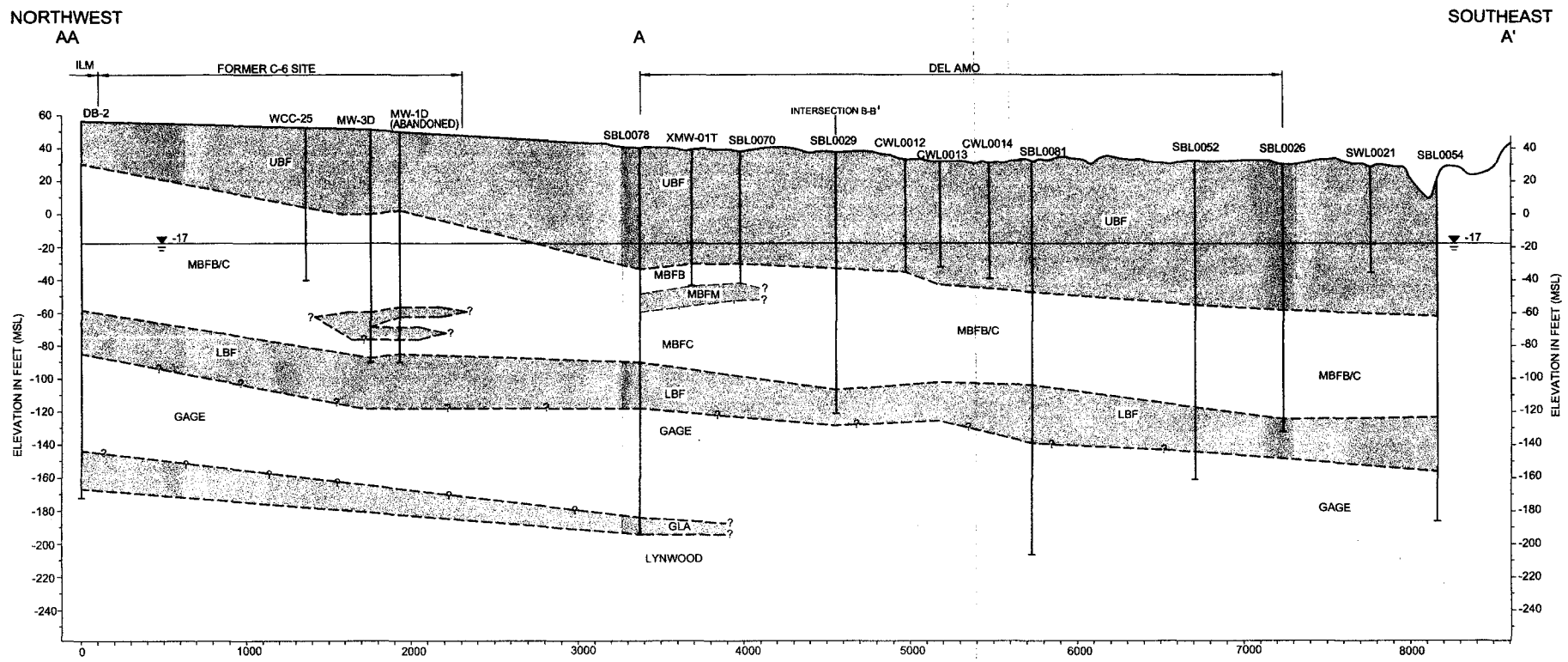
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
GROUNDWATER STATUS REPORT

Kennedy/Jenks Consultants
2151 Michelson Drive, Suite 100, Irvine, California 92612

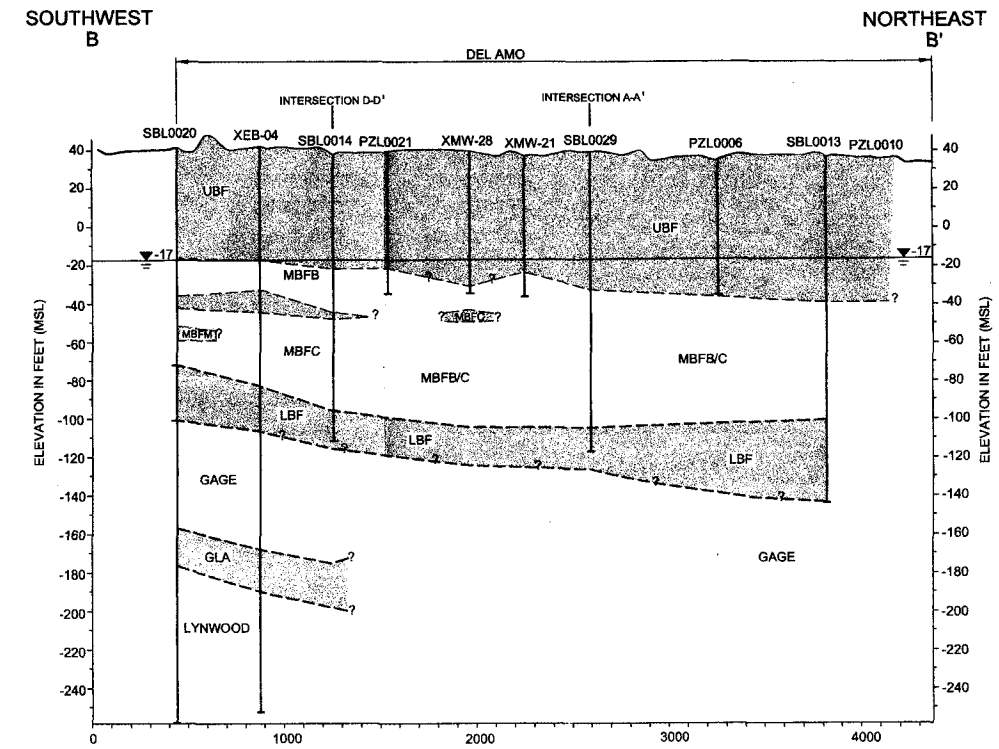
WELL LOCATION MAP

FILE NAME: GE-WELLMAP
JOB NO.: 004020.00
DATE: October 2000
SHEET 1 OF 12

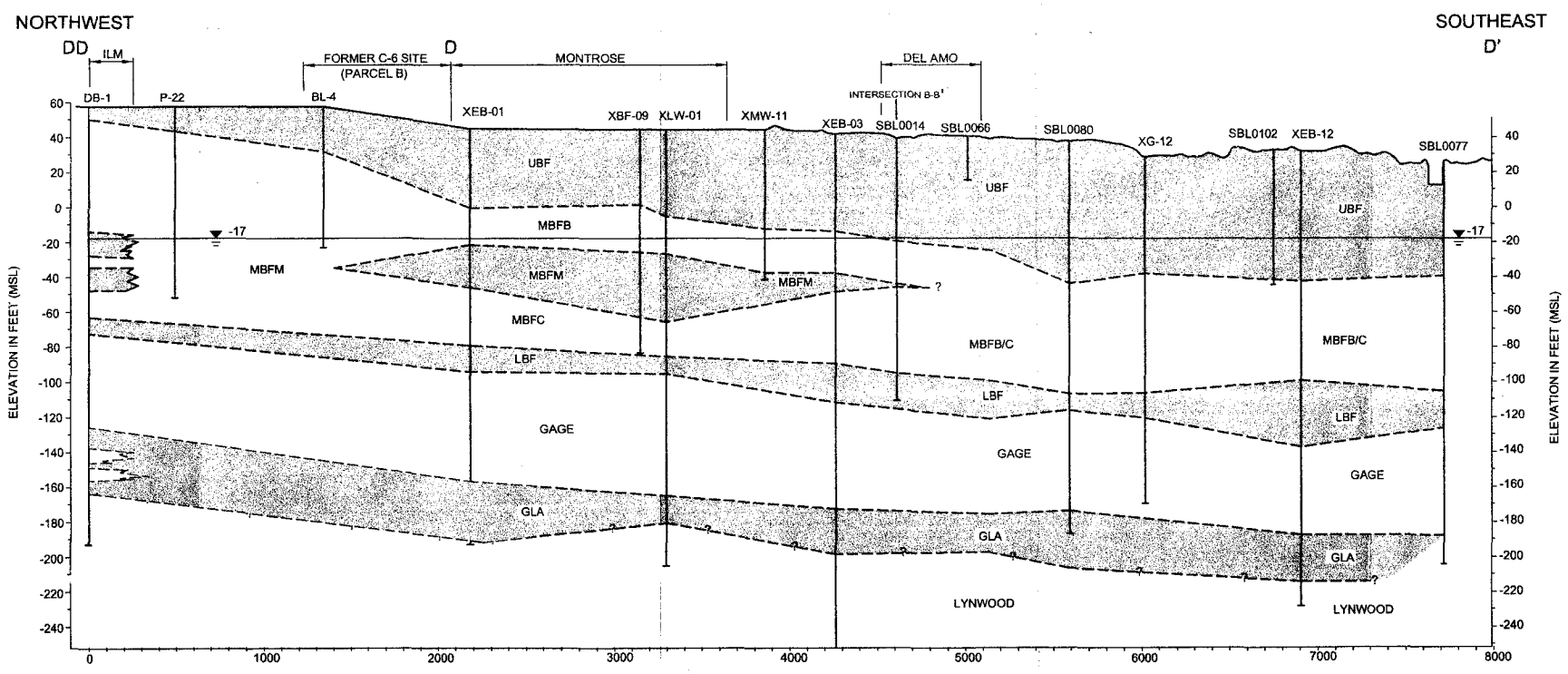
BOE-C6-0210186



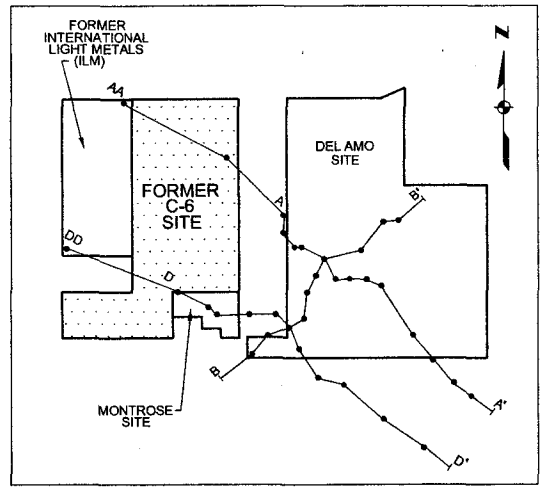
CROSS SECTION AA-A'



CROSS SECTION B-B'



CROSS SECTION DD-D'



CROSS SECTION INDEX MAP
SCALE: 1"=1600'

LEGEND

MW-3D	BOREHOLE OR MONITORING WELL LOCATION AND NAME
	PREDOMINANTLY FINE GRAINED AQUITARD STRATA
	PREDOMINANTLY COARSE GRAINED AQUITARD/AQUIFER STRATA
	BOTTOM OF BOREHOLE/MONITORING WELL
?	INTERPRETED HYDROSTRATIGRAPHIC UNIT BOUNDARY
UBF	UPPER BELLFLOWER AQUITARD
MBFB	MIDDLE BELLFLOWER AQUITARD B-SAND
MBFM	MIDDLE BELLFLOWER AQUITARD MUD
MBFC	MIDDLE BELLFLOWER AQUITARD C-SAND
LBF	LOWER BELLFLOWER AQUITARD
GAGE	GAGE AQUIFER
GLA	GAGE-LYNWOOD AQUITARD
LYNWOOD	LYNWOOD AQUIFER

0 50 100 150
Approximate Scale: 1"=50' VERTICAL

0 500 1000 1500
Approximate Scale: 1"=500' HORIZ.

NOTE:
THESE HYDROSTRATIGRAPHIC CROSS SECTIONS ARE MODIFIED FROM PLATES 3-1, 3-2 AND 3-3 IN DAMES AND MOORE (1998). BOREHOLE DATA USED TO EXTEND CROSS SECTIONS A-A' AND B-B' BENEATH FORMER C-6 AND FORMER INDUSTRIAL LIGHT METALS SITES WERE OBTAINED FROM, INTEGRATED (2000) AND TRC (1999).

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FORMER C-6 FACILITY
GROUNDWATER STATUS REPORT

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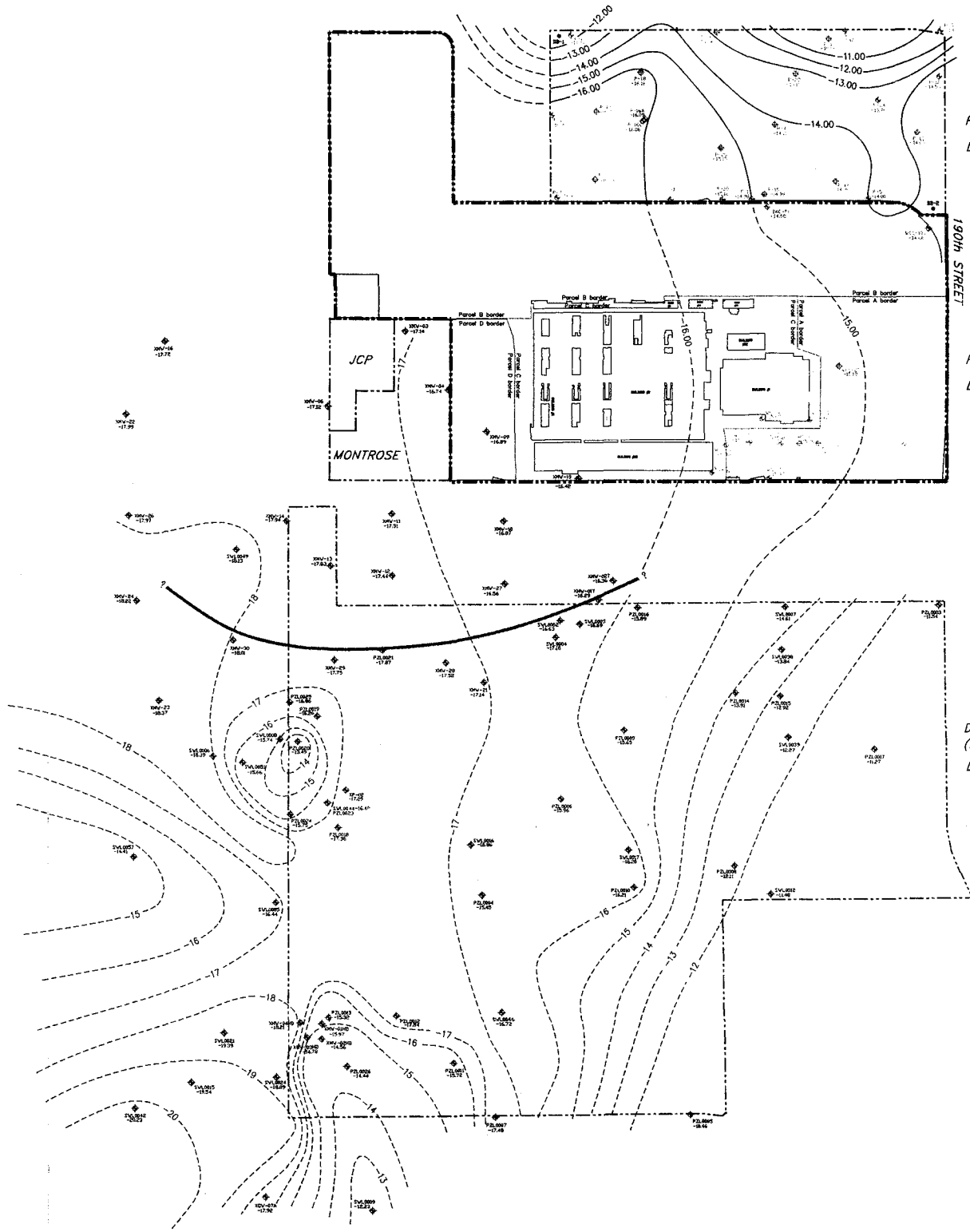
CROSS SECTIONS AA-A-A', B-B & DD-D-D'
FORMER C-6 SITE, INTERNATIONAL LIGHT METALS
DEL AMO STUDY AREA AND VICINITY

FILE NAME CROSSECT-01
JOB NO. 004020.00
DATE October 2000
SHEET 2 OF 12

K:\MDRC C-6\CROSSECT-01.dwg, 10-24-00

BOE-C6-0210187



LEGEND

PZL0017 -11.27	WATER TABLE ZONE MONITORING LOCATION AND GROUNDWATER ELEVATION IN FEET MSL
	MIDDLE BELLFLOWER B SAND OR C SAND MONITORING LOCATION AND GROUNDWATER ELVEVATION IN FEET MSL.
	ABANDONED WELL AT THE FORMER C-6 AND ILM SITES AS OF JULY 2000. AND GROUNDWATER ELEVATION IN FEET MSL
DB-2	DEEP SOIL BORING FORMER INTERNATIONAL LIGHT METALS
-20	GROUNDWATER ELEVATION CONTOUR (FEET MSL) (DASHED WHERE INFERRED)
?	INFERRED INTERSECTION OF WATER TABLE SURFACE WITH TOP OF MIDDLE BELLFLOWER B SAND. THE OVERLYING UPPER BELLFLOWER AQUITARD IS UNSATURATED WEST OF THE INFERRED INTERSECTION.

REFERENCE: FORMER INDUSTRIAL LIGHT METALS (TRC 1999 - TABLE 4.2)
FORMER C-6 SITE(KENNEDY/JENKS CONSULTANTS, 2000 - TABLE 3)
DEL AMO STUDY AREA (DAMES & MOORE, 1997 - FIGURES 2)

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0 25mm
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CHECKED PM

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FORMER C-6 FACILITY
GROUNDWATER STATUS REPORT

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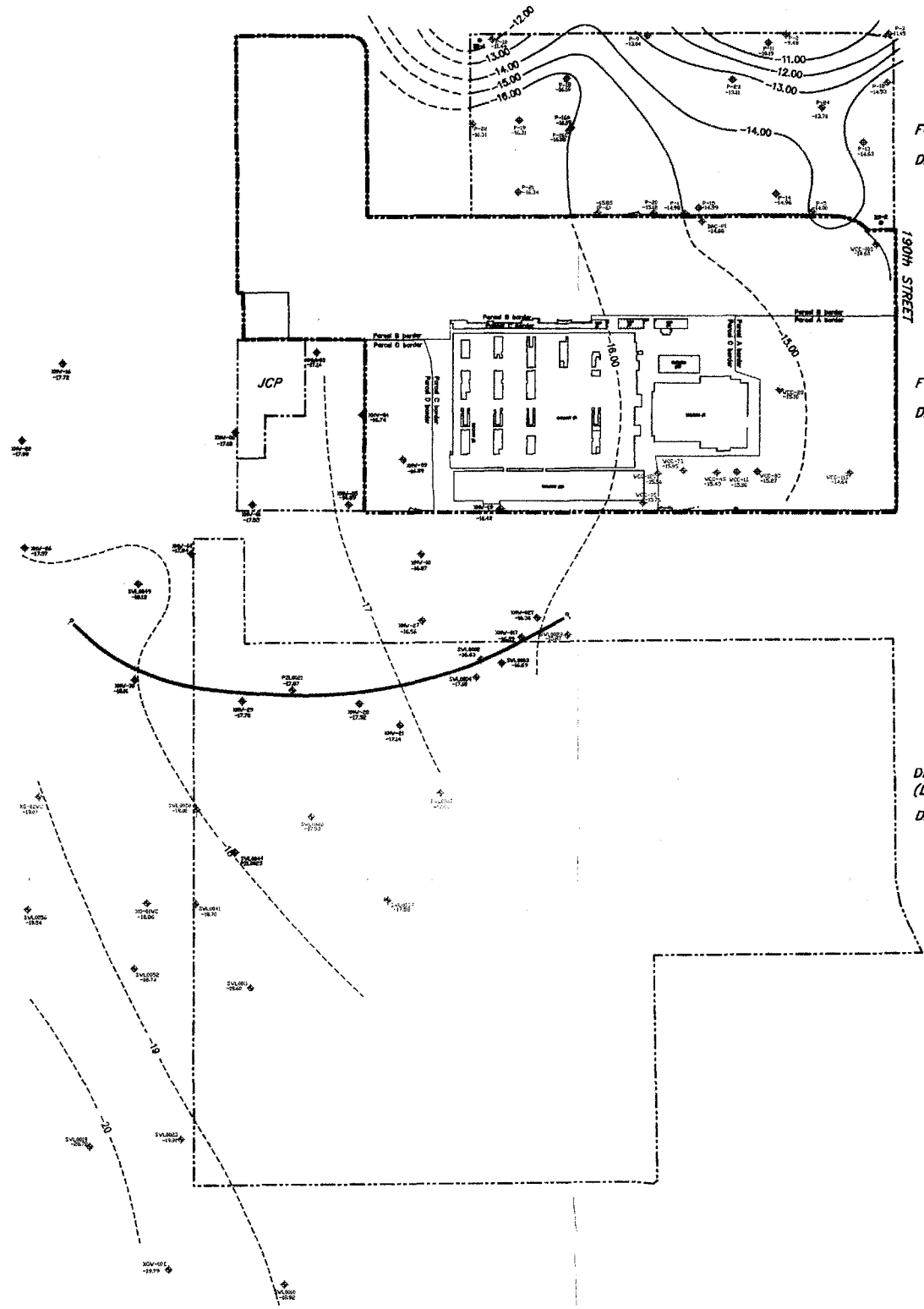
GROUNDWATER ELEVATIONS SHALLOW GROUNDWATER SYSTEM LATE 1996 - EARLY 1997

FILE NAME GE-WTRTABLE
JOB NO. 004020.00
DATE October 2000
SHEET 3 OF 12

K:\BOEING\MDRC\GE-WTRTABLE.DWG 10-25-00

BOE-C6-0210188



N

0 500 1000 1500

Approximate Scale: 1"=500'

LEGEND

PZL0017 -11.27	WATER TABLE ZONE MONITORING LOCATION AND GROUNDWATER ELEVATION IN FEET MSL
P-16A -16.06	MIDDLE BELLFLOWER B SAND OR C SAND MONITORING LOCATION AND GROUNDWATER ELVEVATION IN FEET MSL.
P-19 -16.31	ABANDONED WELL AT THE FORMER C-6 AND ILM SITES AS OF JULY 2000. AND GROUNDWATER ELEVATION IN FEET MSL
DB-2	DEEP SOIL BORING FORMER INTERNATIONAL LIGHT METALS
-20	GROUNDWATER ELEVATION CONTOUR (FEET MSL) (DASHED WHERE INFERRED)
?	INFERRED INTERSECTION OF WATER TABLE SURFACE WITH TOP OF MIDDLE BELLFLOWER B SAND. THE OVERLYING UPPER BELLFLOWER AQUITARD IS UNSATURATED WEST OF THE INFERRED INTERSECTION.

REFERENCE: FORMER INDUSTRIAL LIGHT METALS (TRC 1999 - TABLE 4.2)
FORMER C-6 SITE (KENNEDY/JENKS CONSULTANTS, 2000 - TABLE 3)
DEL AMO STUDY AREA (DAMES & MOORE, 1997 - FIGURES 3)

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NO.	REVISION	DATE	BY

SCALES

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0 — 25mm

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BOEING REALTY CORPORATION
FORMER C-6 FACILITY
GROUNDWATER STATUS REPORT

Kennedy/Jenks Consultants
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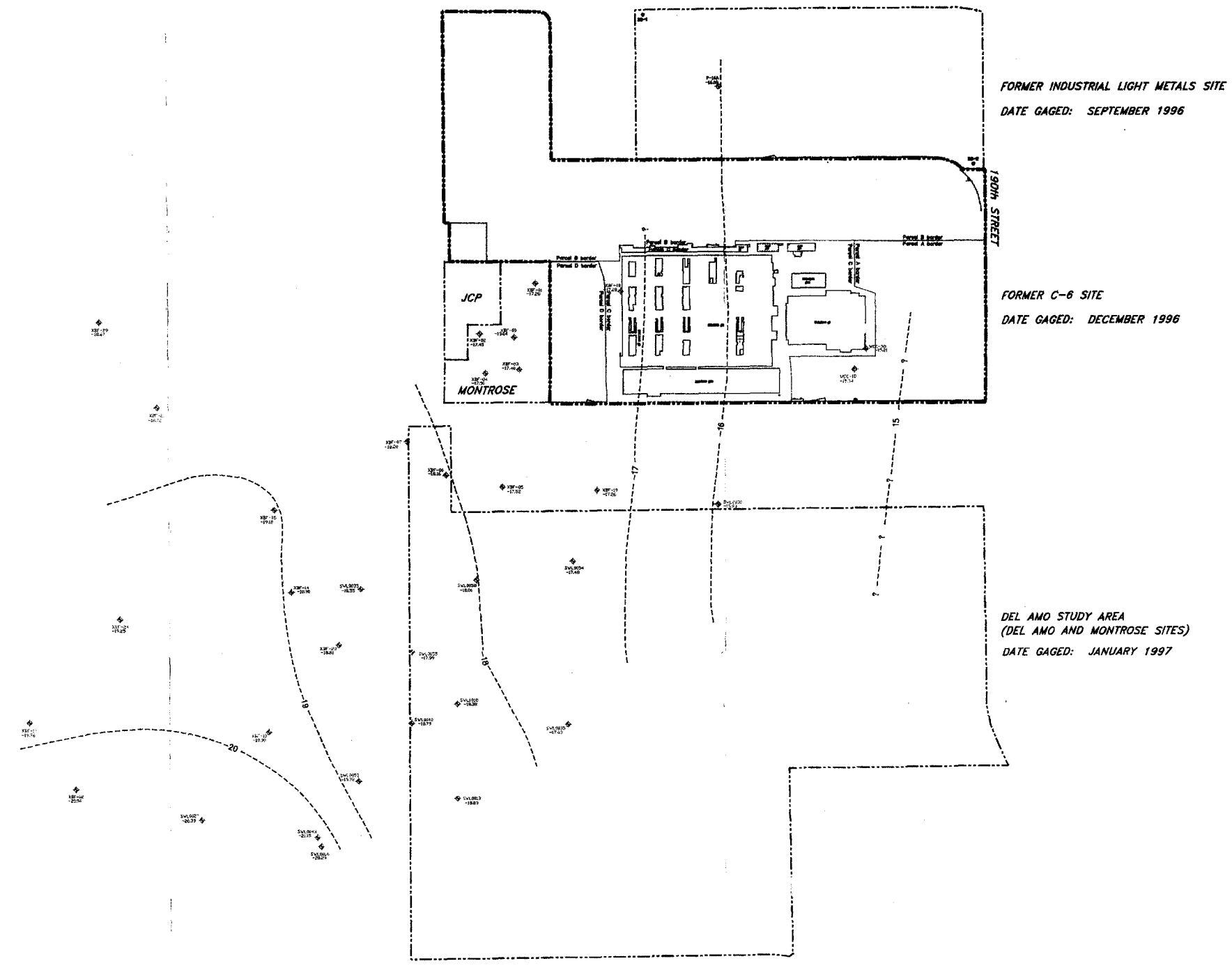
GROUNDWATER ELEVATIONS
MIDDLE BELLFLOWER SAND-B
LATE 1996 - EARLY 1997

FILE NAME: GE-BELL-B
JOB NO.: 004020.00
DATE: October 2000
SHEET 4 OF 12

BOE-C6-0210189



LEGEND

P-16A -16.08	MIDDLE BELLFLOWER B SAND OR C SAND MONITORING LOCATION AND GROUNDWATER ELVEVATION IN FEET MSL.
WCC-1D -15.34	ABANDONED WELL AT THE FORMER C-6 AND ILM SITES AS OF JULY 2000. AND GROUNDWATER ELEVATION IN FEET MSL
DB-2	DEEP SOIL BORING FORMER INTERNATIONAL LIGHT METALS
-20	GROUNDWATER ELEVATION CONTOUR (FEET MSL) (DASHED WHERE INFERRED)
	INFERRED INTERSECTION OF WATER TABLE SURFACE WITH TOP OF MIDDLE BELLFLOWER B SAND. THE OVERLYING UPPER BELLFLOWER AQUITARD IS UNSATURATED WEST OF THE INFERRED INTERSECTION.

REFERENCE: FORMER INDUSTRIAL LIGHT METALS (TRC 1999 - TABLE 4.2)
FORMER C-6 SITE (KENNEDY/JENKS CONSULTANTS, 2000 - TABLE 3)
DEL AMO STUDY AREA (DAMES & MOORE, 1997 - FIGURES 4)

N

0 500 1000 1500

Approximate Scale 1"=500'

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NO.	REVISION	DATE	BY

SCALES

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0 — 25mm

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GROUNDWATER STATUS REPORT

Kennedy/Jenks Consultants
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GROUNDWATER ELEVATIONS
MIDDLE BELLFLOWER SAND-C
LATE 1996 - EARLY 1997

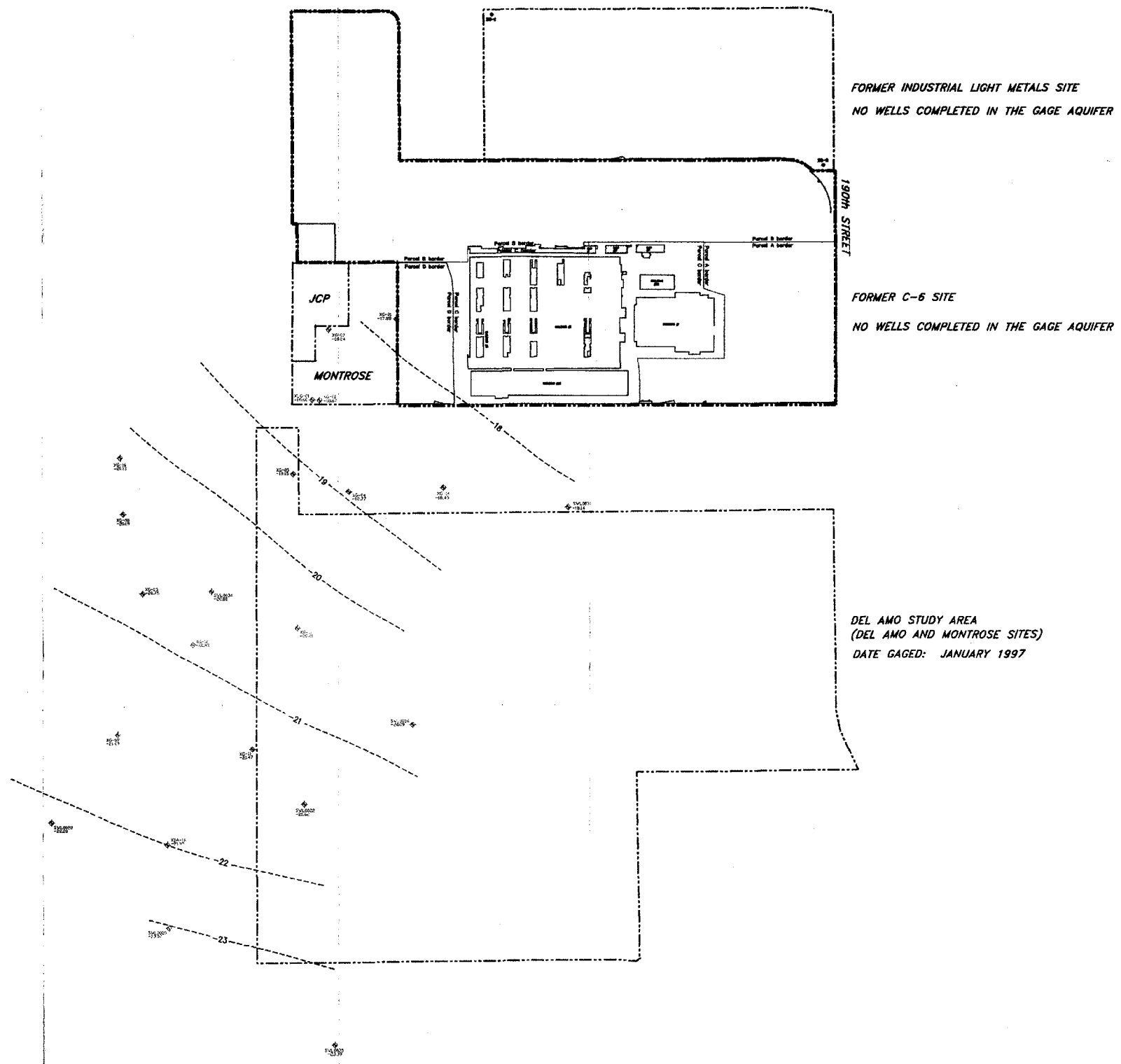
FILE NAME GE-BELL-C

JOB NO. 004020.00

DATE October 2000

SHEET 5 OF 12

BOE-C6-0210190



N

0 500 1000 2500

Approximate Scale: 1"=500'

LEGEND

XG-14 -18.49 — GAGE AQUIFER WELL GROUNDWATER ELEVATION IN FEET MSL.

DB-2 ● — DEEP SOIL BORING FORMER INTERNATIONAL LIGHT METALS

-20 — GROUNDWATER ELEVATION CONTOUR (FEET MSL) (DASHED WHERE INFERRED)

REFERENCE: FORMER INDUSTRIAL LIGHT METALS (TRC 1999 - TABLE 4.2)
FORMER C-6 SITE (KENNEDY/JENKS CONSULTANTS, 2000 - TABLE 3)
DEL AMO STUDY AREA (DAMES & MOORE, 1997 - FIGURES 5)

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NO.	REVISION	DATE	BY

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GROUNDWATER STATUS REPORT

Kennedy/Jenks Consultants
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GROUNDWATER ELEVATIONS GAGE AQUIFER LATE 1996 - EARLY 1997

FILE NAME: GE-GAGE-AQFR
JOB NO.: 004020.00
DATE: October 2000
SHEET 6 OF 12

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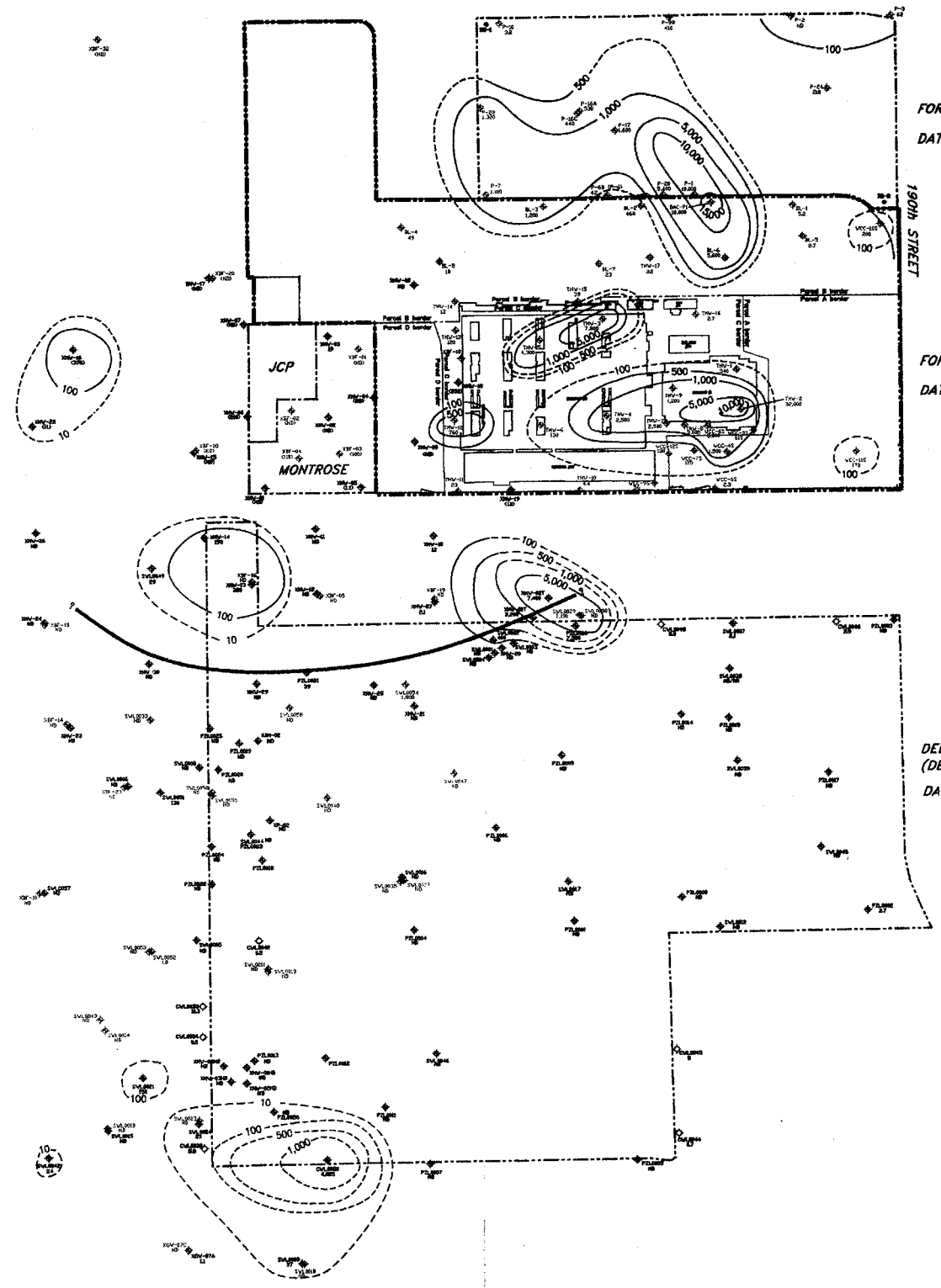

LEGEND

SWL0007 2.1	GROUNDWATER MONITORING LOCATION WITH THE CONCENTRATION OF TRICHLOROETHENE (UG/L) FOR THE SAMPLING PERIODS SHOWN. CONCENTRATIONS, IN PARENTHESES INDICATE HISTORICAL DATA FROM THE MONTROSE SITE.
SWL0032 120	GROUNDWATER MONITORING LOCATION WITH THE CONCENTRATION OF TRICHLOROETHENE (UG/L) FOR THE SAMPLING PERIODS SHOWN. CONCENTRATIONS, IN PARENTHESES INDICATE HISTORICAL DATA FROM THE MONTROSE SITE.
BL-5 2.7	ABANDONED WELL AT THE FORMER C-6 AND ILM SITES AS OF JULY 2000.
CWL0034 9.5	TEMPORARY WELL POINT WITH ONE TIME HISTORICAL DATA
DB-2	DEEP SOIL BORING FORMER INTERNATIONAL LIGHT METALS
100	TRICHLOROETHENE CONCENTRATION ISOPLETH IN UG/L.
ND	ND INDICATES TRICHLOROETHENE WAS NOT DETECTED ABOVE THE DETECTION LIMIT. LIMIT NOT KNOWN.
<5.0	ND INDICATES TRICHLOROETHENE WAS NOT DETECTED ABOVE THE DETECTION LIMIT. LIMIT SHOWN.
?	INFERRED INTERSECTION OF WATER TABLE SURFACE WITH TOP OF MIDDLE BELLFLOWER 9 SAND. THE OVERLYING UPPER BELLFLOWER AQUITARD IS UNSATURATED WEST OF THE INFERRED INTERSECTION.

REFERENCE: FORMER INDUSTRIAL LIGHT METALS (TRC 1999 - TABLE 4.10)
FORMER C-6 SITE (KENNEDY/JENKS CONSULTANTS, 2000 - TABLE 2)
DEL AMO STUDY AREA (DAMES & MOORE, 1997 - FIGURES 7, 12, 17 AND 21)

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GROUNDWATER STATUS REPORT

Kennedy/Jenks Consultants
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TRICHLOROETHENE IN GROUNDWATER COMPOSITE MAP SHALLOW GROUNDWATER SYSTEM

FILE NAME GE-TCE-MMB-C
JOB NO. 004020.00
DATE October 2000
SHEET 7 OF 12

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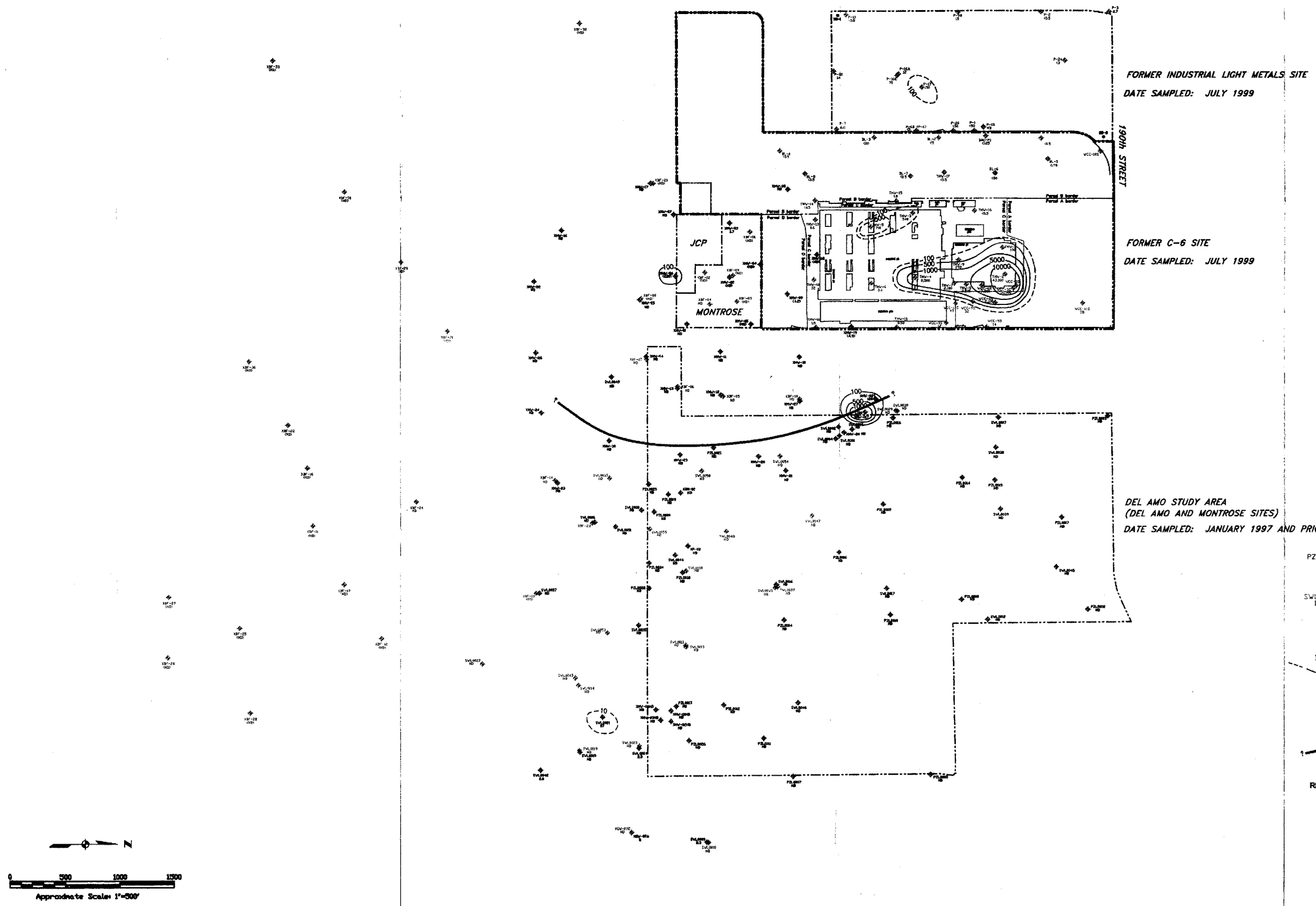

LEGEND

PZL0002 2.7	GROUNDWATER MONITORING LOCATION IN THE UPPER BELLFLOWER AQUITARD FINE GRAINED UNIT (PREDOMINATELY) THE CONCENTRATION OF 1,1-DICHLOROETHENE (UG/L) FOR THE SAMPLING PERIODS SHOWN. CONCENTRATIONS, IN PARENTHESES INDICATE HISTORICAL DATA FROM THE MONTROSE SITE.
SWL0032 120	GROUNDWATER MONITORING LOCATION IN THE MIDDLE BELLFLOWER AQUITARD B-SAND, C-SAND AND B/C-SAND THE CONCENTRATION OF 1,1-DICHLOROETHENE (UG/L) FOR THE SAMPLING PERIODS SHOWN. CONCENTRATIONS, IN PARENTHESES INDICATE HISTORICAL DATA FROM THE MONTROSE SITE.
BL-5 2.7	ABANDONED WELL AT THE FORMER C-6 AND ILM SITES AS OF JULY 2000.
DB-2 ●	DEEP SOIL BORING FORMER INTERNATIONAL LIGHT METALS
100	1,1-DICHLOROETHENE CONCENTRATION ISOPLETH IN UG/L
ND	ND INDICATES 1,1-DICHLORCETHENE WAS NOT DETECTED ABOVE THE DETECTION LIMIT. LIMIT NOT KNOWN.
<5.0	ND INDICATES 1,1-DICHLOROETHENE WAS NOT DETECTED ABOVE THE DETECTION LIMIT. LIMIT SHOWN.
? ?	INFERRED INTERSECTION OF WATER TABLE SURFACE WITH TOP OF MIDDLE BELLFLOWER B SAND. THE OVERLYING UPPER BELLFLOWER AQUITARD IS UNSATURATED WEST OF THE INFERRED INTERSECTION.

REFERENCE: FORMER NDUSTRIAL LIGHT METALS (TRC 1999 - TABLE 4.10)
FORMER C-6 SITE (KENNEDY/JENKS CONSULTANTS, 2000 - TABLE 2)
DEL AMO STUDY AREA (DAMES & MOORE, 1997 - FIGURES 7, 12, 17 AND 21)

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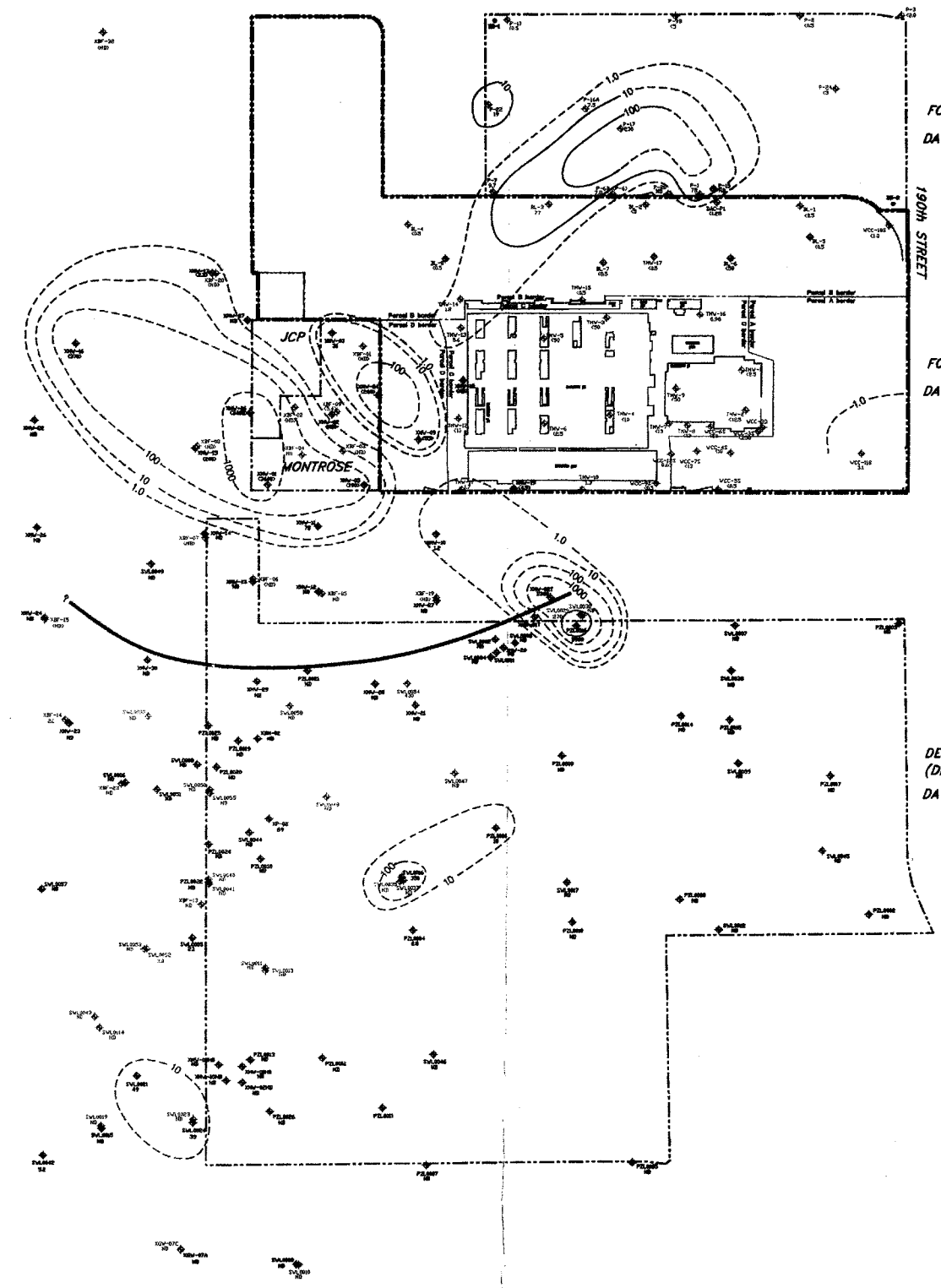
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
GROUNDWATER STATUS REPORT

Kennedy/Jenks Consultants
2151 Michelson Drive, Suite 100, Irvine, California 92612

1,1-DICHLOROETHENE IN GROUNDWATER
COMPOSITE MAP
SHALLOW GROUNDWATER SYSTEM

FILE NAME GE-DCE-MBB-C
JOB NO. 004020.00
DATE October 2000
SHEET 8 OF 12

BOE-C6-0210193



FORMER INDUSTRIAL LIGHT METALS SITE
DATE SAMPLED: JULY 1999

FORMER C-6 SITE
DATE SAMPLED: JULY 1999

DEL AMO STUDY AREA
(DEL AMO AND MONTROSE SITES)
DATE SAMPLED: JANUARY 1997 AND PRIOR

N

0 500 1000 1500
Approximate Scale: 1"=500'

LEGEND

SWL0007 2.1	GROUNDWATER MONITORING LOCATION WITH THE CONCENTRATION OF TETRACHLOROETHENE (UG/L) FOR THE SAMPLING PERIODS SHOWN. CONCENTRATIONS, IN PARENTHESES INDICATE HISTORICAL DATA FROM THE MONTROSE SITE.
SWL0032 120	GROUNDWATER MONITORING LOCATION WITH THE CONCENTRATION OF TETRACHLOROETHENE (UG/L) FOR THE SAMPLING PERIODS SHOWN. CONCENTRATIONS, IN PARENTHESES INDICATE HISTORICAL DATA FROM THE MONTROSE SITE.
P-23 2.7	ABANDONED WELL AT THE FORMER C-6 AND ILM SITES AS OF JULY 2000.
DB-2	DEEP SOIL BORING FORMER INTERNATIONAL LIGHT METALS
100	TETRACHLOROETHENE CONCENTRATION ISOPLETH IN UG/L
ND	ND INDICATES TETRACHLOROETHENE WAS NOT DETECTED ABOVE THE DETECTION LIMIT. LIMIT NOT KNOWN.
<5.0	ND INDICATES TETRACHLOROETHENE WAS NOT DETECTED ABOVE THE DETECTION LIMIT. LIMIT SHOWN.
1	INFERRED INTERSECTION OF WATER TABLE SURFACE WITH TOP OF MIDDLE BELLFLOWER B BAND. THE OVERLYING UPPER BELLFLOWER AQUITARD IS UNSATURATED WEST OF THE INFERRED INTERSECTION.

REFERENCE: FORMER INDUSTRIAL LIGHT METALS (TRC 1999 - TABLE 4.10)
FORMER C-6 SITE (KENNEDY/JENKS CONSULTANTS, 2000 - TABLE 2)
DEL AMO STUDY AREA (DAMES & MOORE, 1997 - FIGURES 7, 12, 17 AND 21)

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DRAWN MR
CHECKED PM

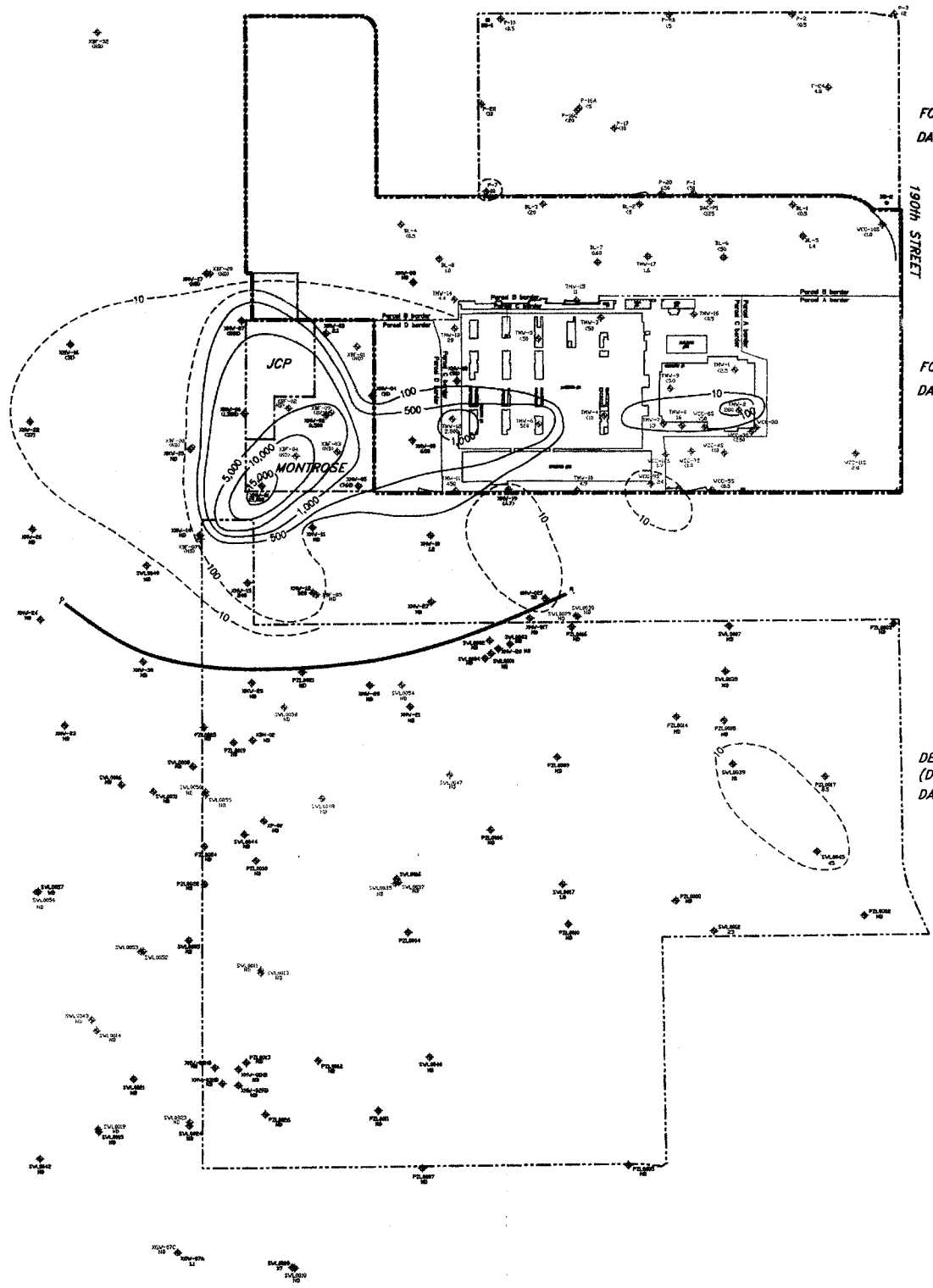
BOEING REALTY CORPORATION
FORMER C-6 FACILITY
GROUNDWATER STATUS REPORT

Kennedy/Jenks Consultants
2151 Michelson Drive, Suite 100, Irvine, California 92612

TETRACHLOROETHENE IN GROUNDWATER
COMPOSITE MAP
SHALLOW GROUNDWATER SYSTEM

FILE NAME GE-PCE
JOB NO. 004020.00
DATE October 2000
SHEET 9 OF 12

BOE-C6-0210194



LEGEND

PZL0017 8.5	GROUNDWATER MONITORING LOCATION WITH THE CONCENTRATION OF CHLOROFORM (UG/L) FOR THE SAMPLING PERIODS SHOWN. CONCENTRATIONS, IN PARENTHESES INDICATE HISTORICAL DATA FROM THE MONTROSE SITE.
P-24 4.8	GROUNDWATER MONITORING LOCATION WITH THE CONCENTRATION OF CHLOROFORM (UG/L) FOR THE SAMPLING PERIODS SHOWN. CONCENTRATIONS, IN PARENTHESES INDICATE HISTORICAL DATA FROM THE MONTROSE SITE.
BL-5 1.4	ABANDONED WELL AT THE FORMER C-6 AND ILM SITES AS OF JULY 2000.
DB-2	DEEP SOIL BORING FORMER INTERNATIONAL LIGHT METALS
100	CHLOROFORM CONCENTRATION ISOPLETH IN UG/L
ND	ND INDICATES CHLOROFORM WAS NOT DETECTED ABOVE THE DETECTION LIMIT. LIMIT NOT KNOWN.
<5.0	ND INDICATES CHLOROFORM WAS NOT DETECTED ABOVE THE DETECTION LIMIT. LIMIT SHOWN.
?	INFERRED INTERSECTION OF WATER TABLE SURFACE WITH TOP OF MIDDLE BELLFLOWER B SAND. THE OVERLYING UPPER BELLFLOWER AQUITARD IS UNSATURATED WEST OF THE INFERRED INTERSECTION.

REFERENCE: FORMER INDUSTRIAL LIGHT METALS (TRC 1999 - TABLE 4.10)
FORMER C-6 STIE (KENNEDY/JENKS CONSULTANTS, 2000 - TABLE 2)
DEL AMO STUDY AREA (DAMES & MOORE, 1997 - FIGURES 7, 12, 17 AND 21)

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NO.	REVISION	DATE	BY

SCALES
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0 — 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED: PM
DRAWN: MR
CHECKED: PM

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
GROUNDWATER STATUS REPORT

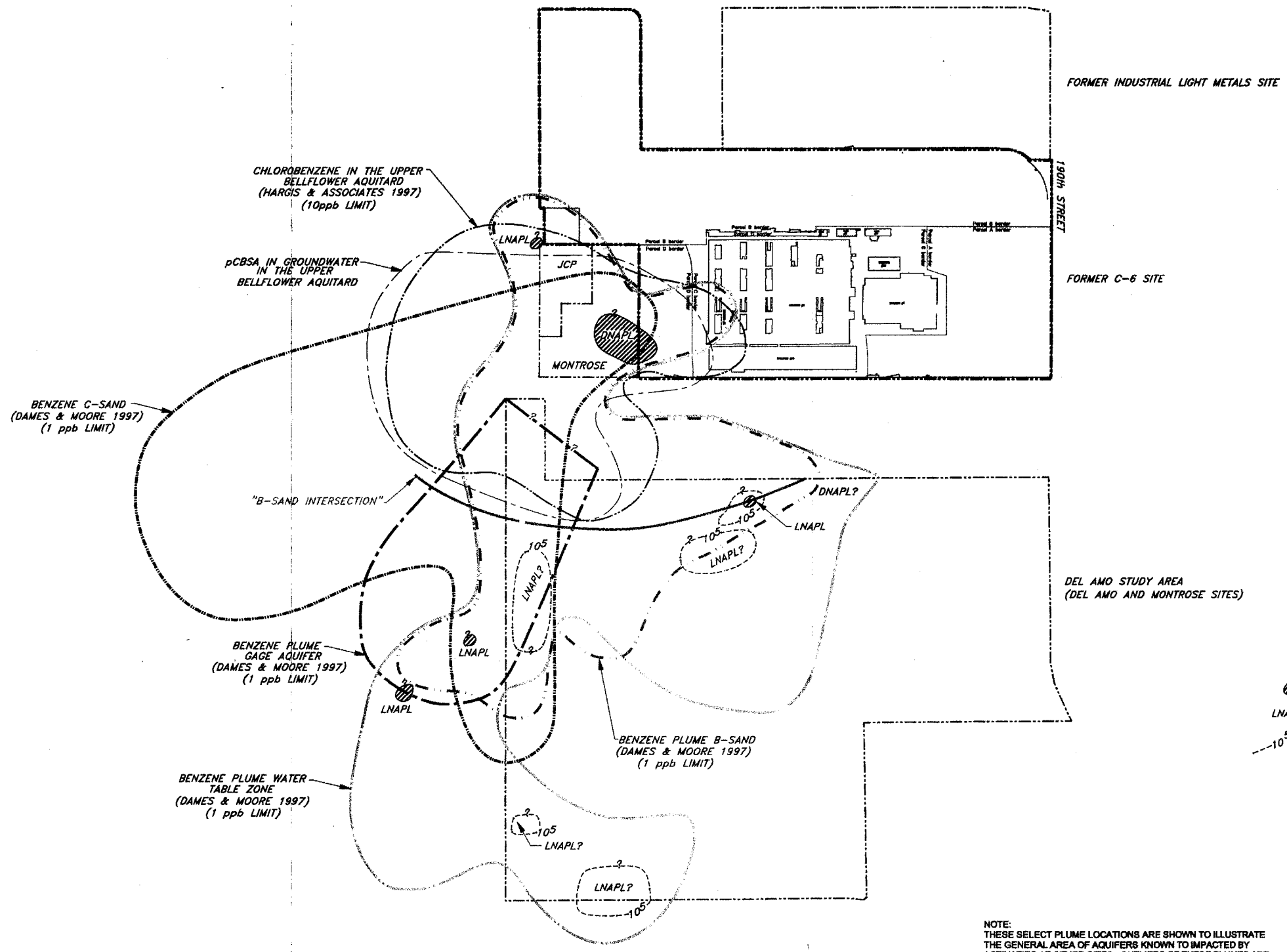
Kennedy/Jenks Consultants
2151 Michelson Drive, Suite 100, Irvine, California 92612

CHLOROFORM IN GROUNDWATER COMPOSITE MAP SHALLOW GROUNDWATER SYSTEM

FILE NAME: GE-CFORM
JOB NO.: 004020.00
DATE: October 2000
SHEET 10 OF 12

K:\Boeing\MDRC C-6\GE-CFORM.dwg, 10-25-00

BOE-C6-0210195



LEGEND

- APPROXIMATE AREA OF KNOWN LNAPL/DNAPL (DASHED AND QUERIED WHERE EXTENT IS UNDEFINED)
- LNAPL — APPROXIMATE LOCATION OF SUSPECTED LNAPL/DNAPL
- 10^5 — BENZENE CONCENTRATION ISOPLETH (100,000 UG/L)

NOTE:
THESE SELECT PLUME LOCATIONS ARE SHOWN TO ILLUSTRATE THE GENERAL AREA OF AQUIFERS KNOWN TO IMPACTED BY ACTIVATIES AT OTHER SITES. OUTLIERS OF THESE PLUMES ARE NOT SHOWN. CONSULT DAMES & MOORE, (1997) AND HARGIS AND ASSOCIATES (1997) FOR ADDITIONAL DETAILS.

N

0 500 1000 1500
Approximate Scale: 1"=500'

K:\MDRC C-6\GE-PLUMES.dwg, 10-25-00

BOE-C6-0210196

USE OF DOCUMENTS

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NO.	REVISION	DATE	BY

SCALES
0 — 1"
0 — 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

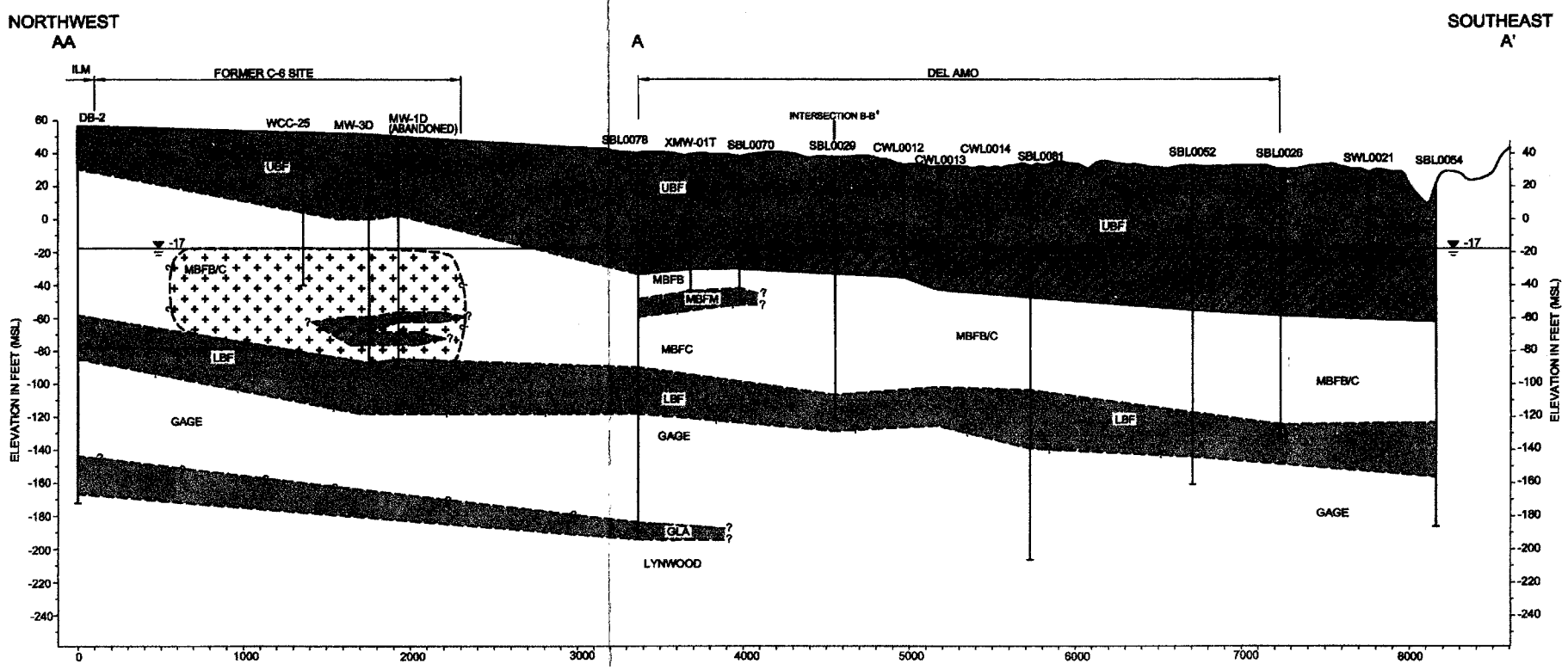
DESIGNED: PM
DRAWN: BXB
CHECKED: PM

BOEING REALTY CORPORATION
FORMER C-6 FACILTIY
GROUNDWATER STATUS REPORT

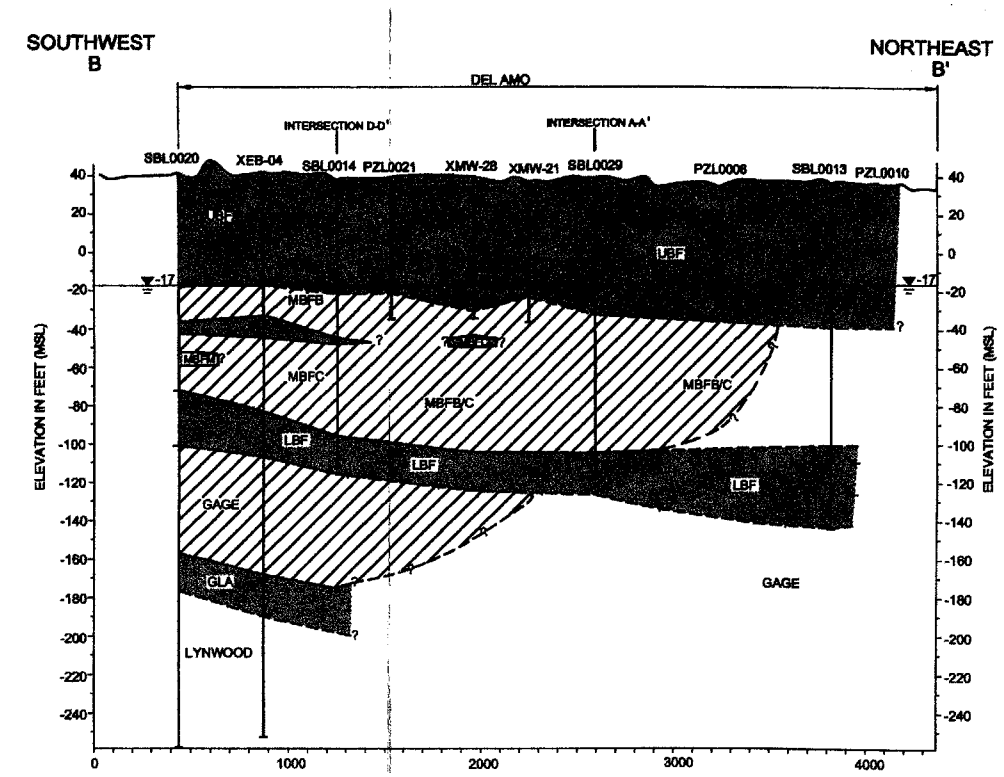
Kennedy/Jenks Consultants
2151 Michelson Drive, Suite 100, Irvine, California 92612

PRIMARY LOCATIONS OF SELECTED VOC PLUMES IN THE VICINITY OF BOEING C-6

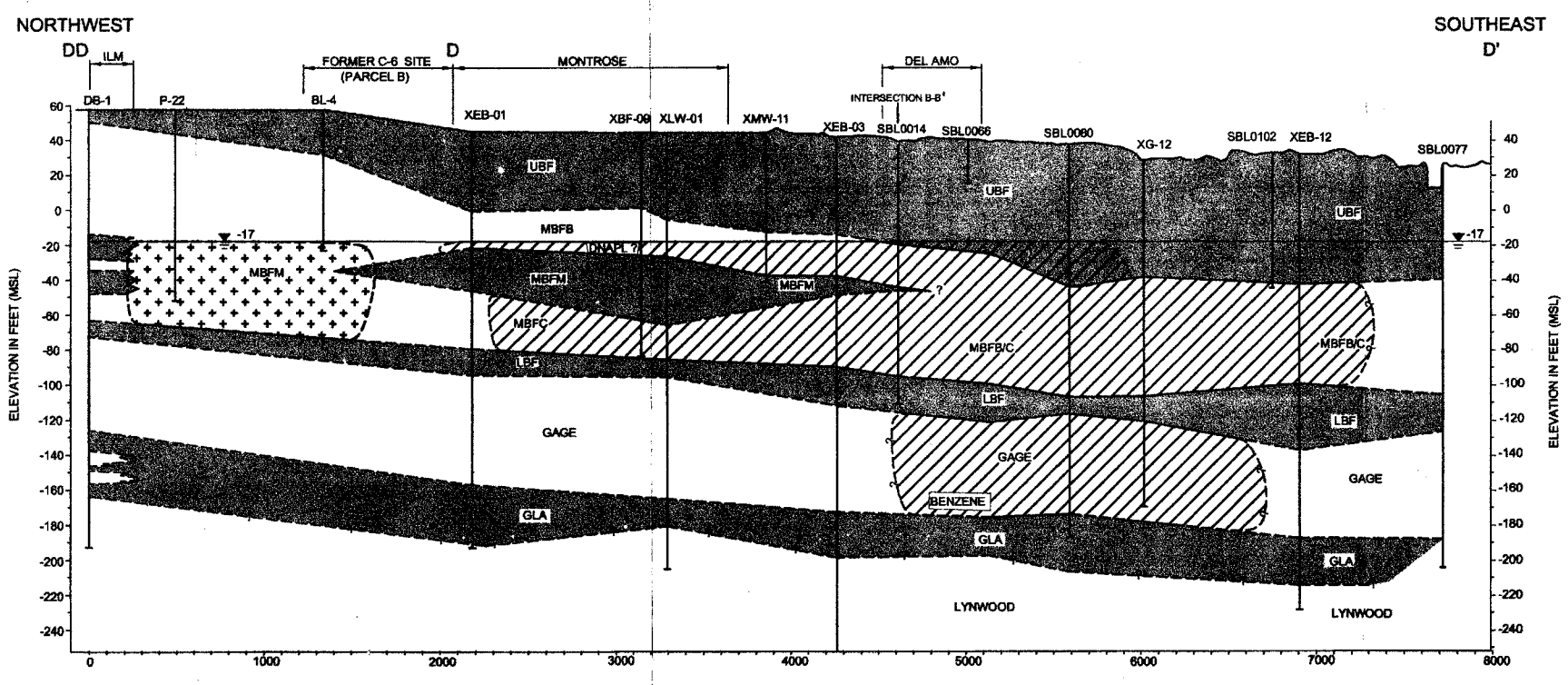
FILE NAME: GE-PLUMES
JOB NO.: 004020.00
DATE: October 2000
SHEET 11 OF 12



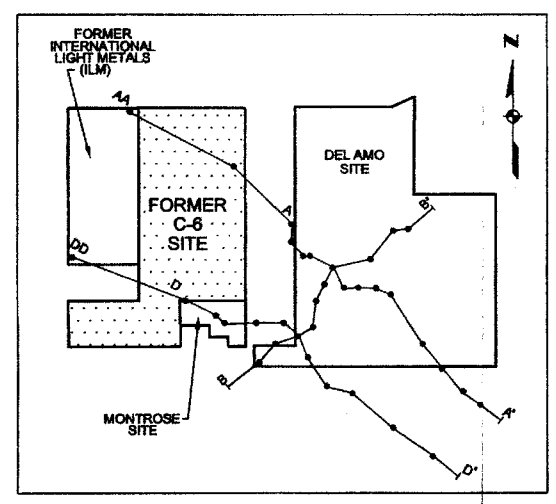
CROSS SECTION AA-A'



CROSS SECTION B-B'



CROSS SECTION DD-D'



CROSS SECTION INDEX MAP
SCALE: 1"=1600'

LEGEND

MW-3D	BOREHOLE OR MONITORING WELL LOCATION AND NAME
	PREDOMINANTLY FINE GRAINED AQUITARD STRATA
	PREDOMINANTLY COARSE GRAINED AQUITARD/AQUIFER STRATA
	BOTTOM OF BOREHOLE/MONITORING WELL
---?	INTERPRETED HYDROSTRATIGRAPHIC UNIT BOUNDARY
UBF	UPPER BELLFLOWER AQUITARD
MBFB	MIDDLE BELLFLOWER AQUITARD B-SAND
MBFM	MIDDLE BELLFLOWER AQUITARD MUD
MBFC	MIDDLE BELLFLOWER AQUITARD C-SAND
LBF	LOWER BELLFLOWER AQUITARD
GAGE	GAGE AQUIFER
GLA	GAGE-LYNWOOD AQUITARD
LYNWOOD	LYNWOOD AQUIFER
	ESTIMATED EXTENT OF AQUIFER IMPACTED BY PRIMARY CONTAMINANTS FROM FORMER C-6 AND ILM SITES ALL LIMITS ARE QUESTIONABLE.
	ESTIMATED EXTENT OF AQUIFER IMPACTED BY PRIMARY CONTAMINANTS FROM MONTROSE AND DEL AMO SITES. ALL LIMITS ARE QUESTIONABLE.

0 50 100 150
Approximate Scale: 1"=50' VERTICAL

0 500 1000 1500
Approximate Scale: 1"=500' HORIZ.

NOTE:
THESE HYDROSTRATIGRAPHIC CROSS SECTIONS ARE MODIFIED FROM PLATES 3-1, 3-2 AND 3-3 IN DAMES AND MOORE (1996). BOREHOLE DATA USED TO EXTEND CROSS SECTIONS A-A' AND B-B' BENEATH FORMER C-6 AND FORMER INDUSTRIAL LIGHT METALS SITES WERE OBTAINED FROM, INTEGRATED (2000) AND TRC (1999).

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NO.	REVISION	DATE	BY

SCALES
0 — 1"
0 — 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

DESIGNED PM
DRAWN BXB
CHECKED PM

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
GROUNDWATER STATUS REPORT

Kennedy/Jenks Consultants
2151 Michelson Drive, Suite 100, Irvine, California 92612

ESTIMATED PLUME LOCATIONS IN CROSS SECTION

FILE NAME CROSSECT-02
JOB NO. 004020.00
DATE October 2000
SHEET 12 OF 12

K:\MDRC C-6\CROSSECT-02.dwg, 10-25-00

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