

FIGURE 5-1
URANIUM CONCENTRATIONS IN THE K_d BATCH TEST SOLUTIONS

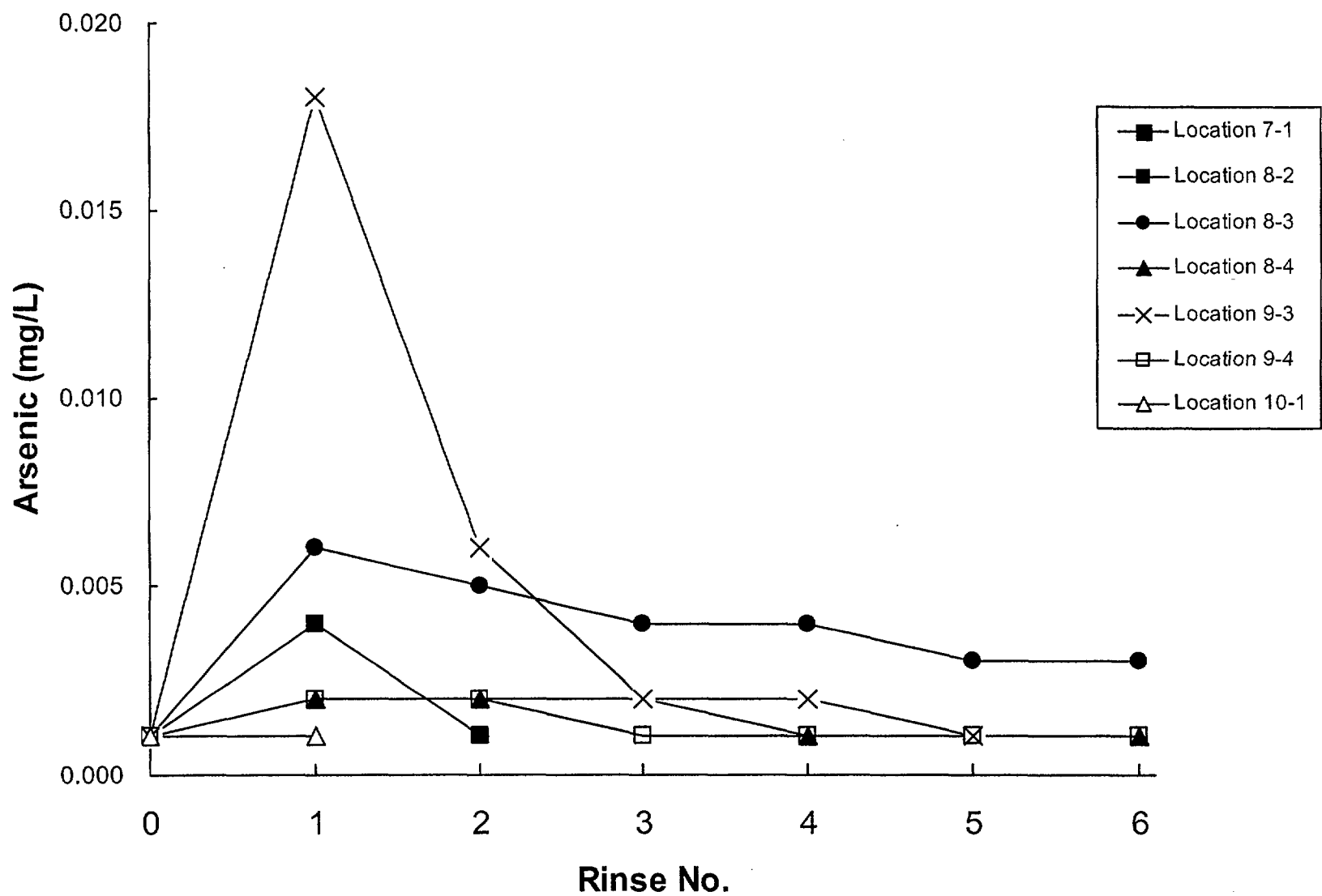
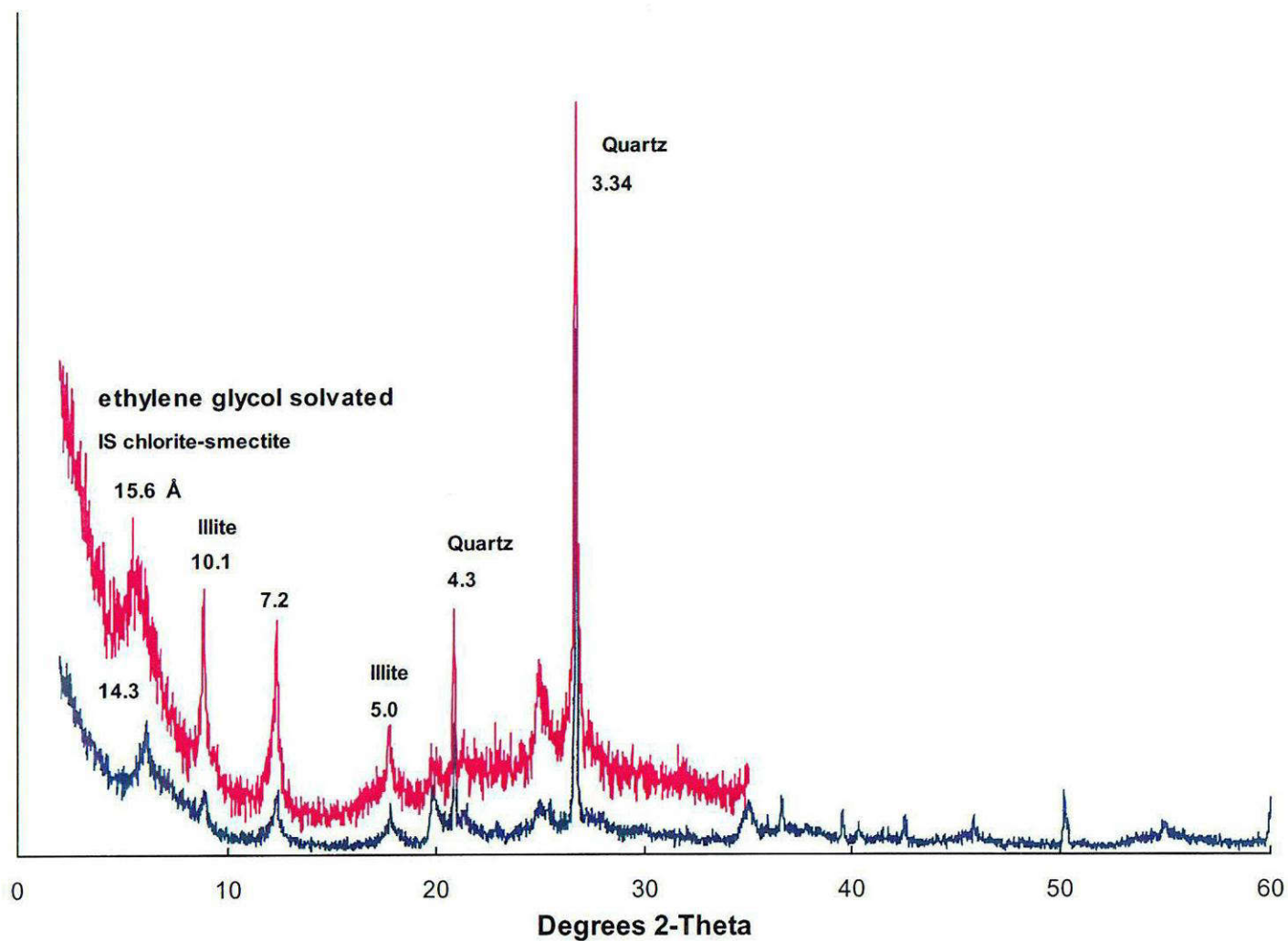


FIGURE 5-2
ARSENIC CONCENTRATIONS IN THE K_d BATCH TEST SOLUTIONS



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FIGURE 5-3
X-RAY DIFFRACTION PATTERN FOR SHALE 1 (LOCATION 7) COMPARING
THE d(001)-SPACING OF UNTREATED AND ETHYLENE GLYCOL SOLVATED
SAMPLES

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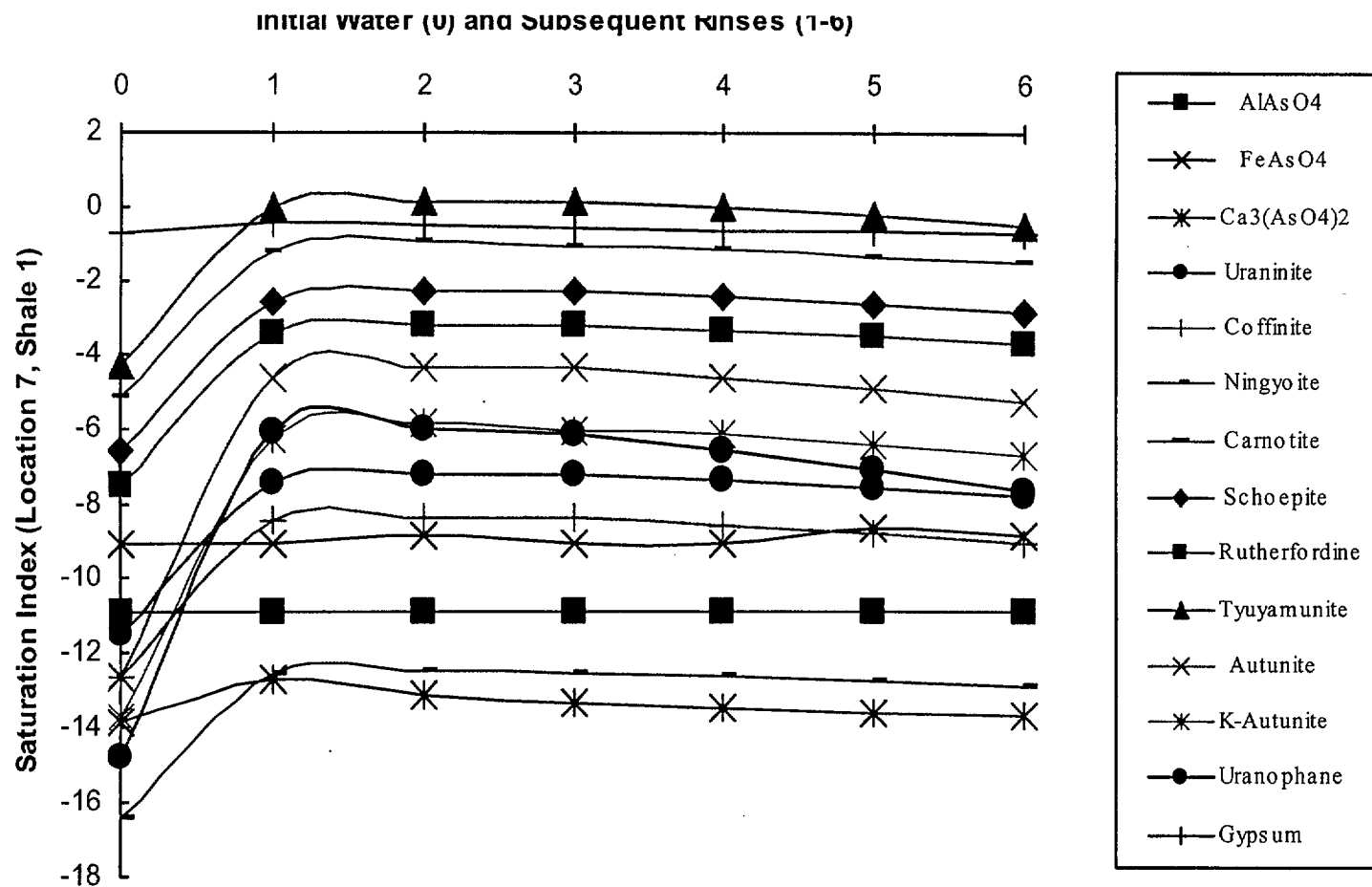


FIGURE 5-4
MINERAL SATURATION INDICES FOR THE SHALE 1 (LOCATION 7)
BATCH TEST SOLUTIONS

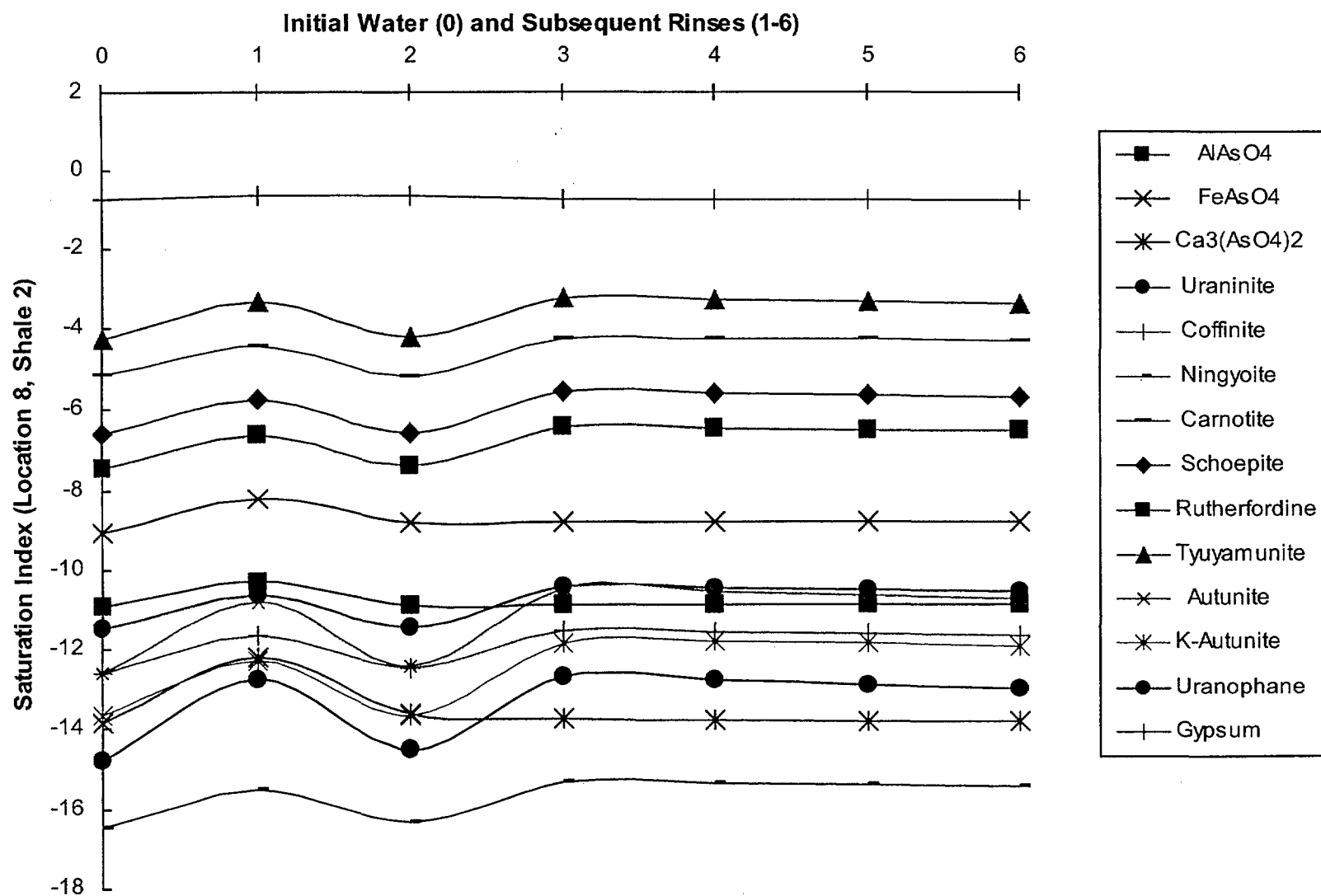


FIGURE 5-5
MINERAL SATURATION INDICES FOR THE SHALE 2 (LOCATION 8)
BATCH TEST SOLUTIONS



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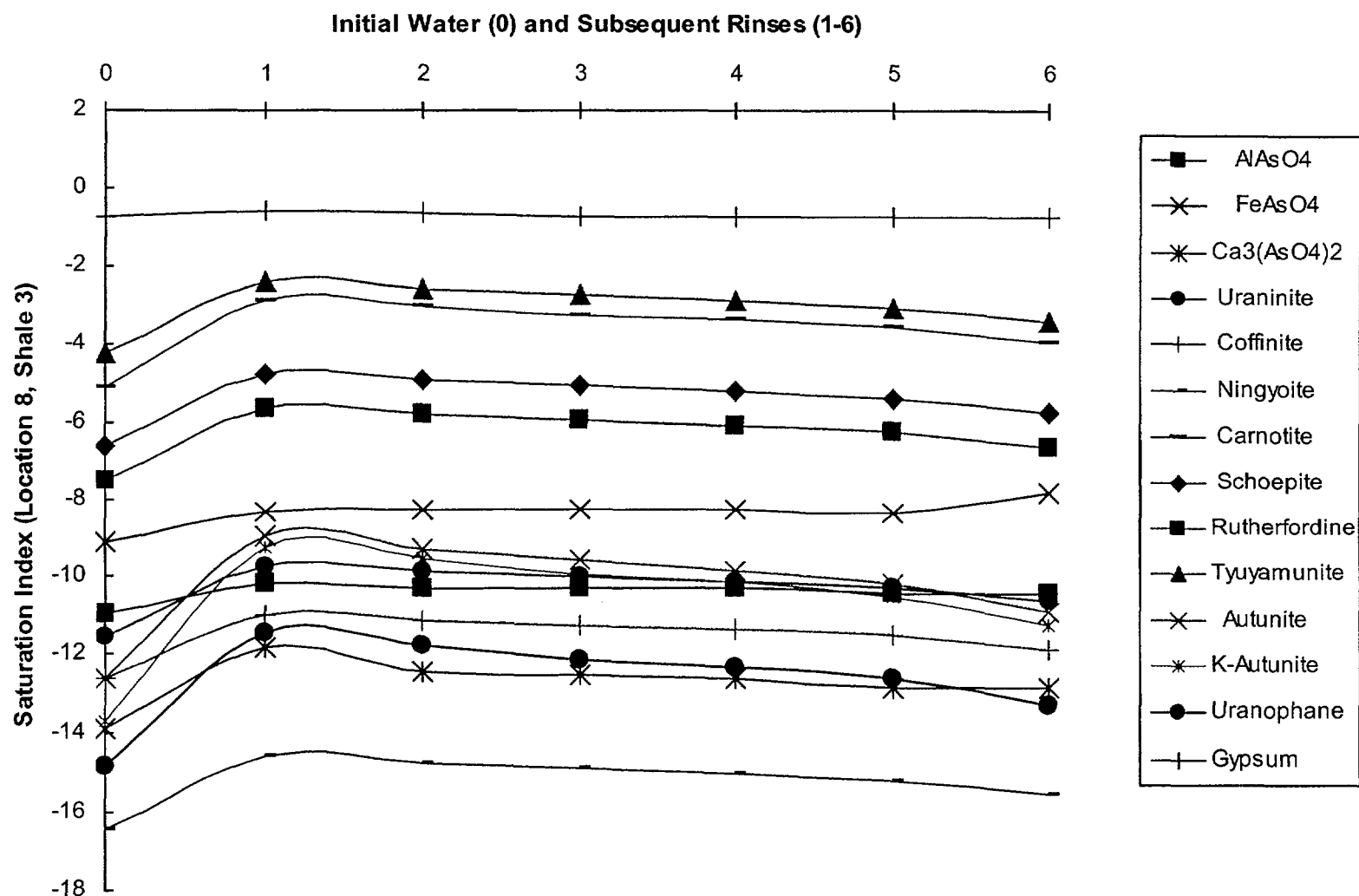


FIGURE 5-6
MINERAL SATURATION INDICES FOR THE SHALE 3 (LOCATION 8)
BATCH TEST SOLUTIONS

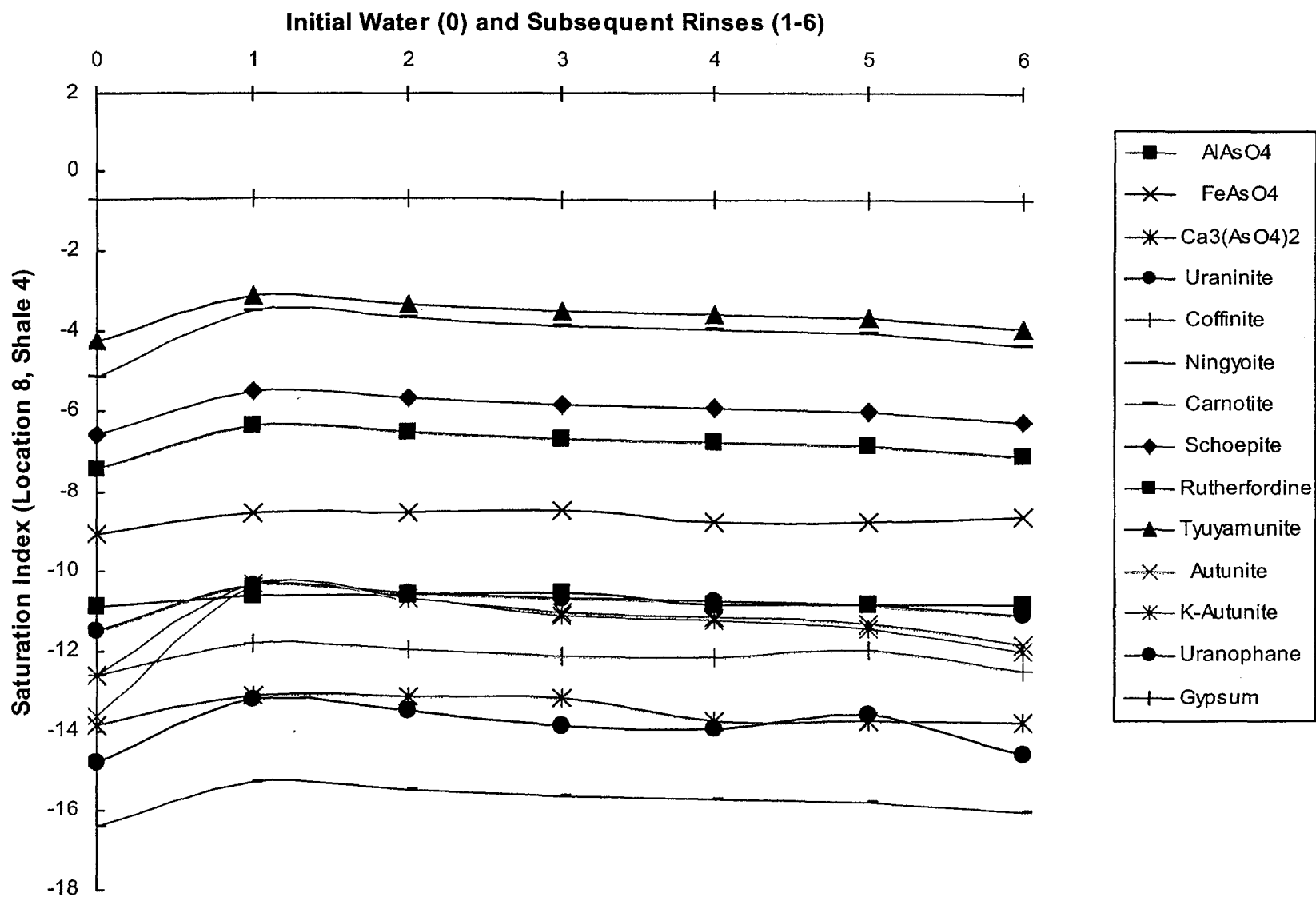


FIGURE 5-7
MINERAL SATURATION INDICES FOR THE SHALE 4 (LOCATION 8)
BATCH TEST SOLUTIONS

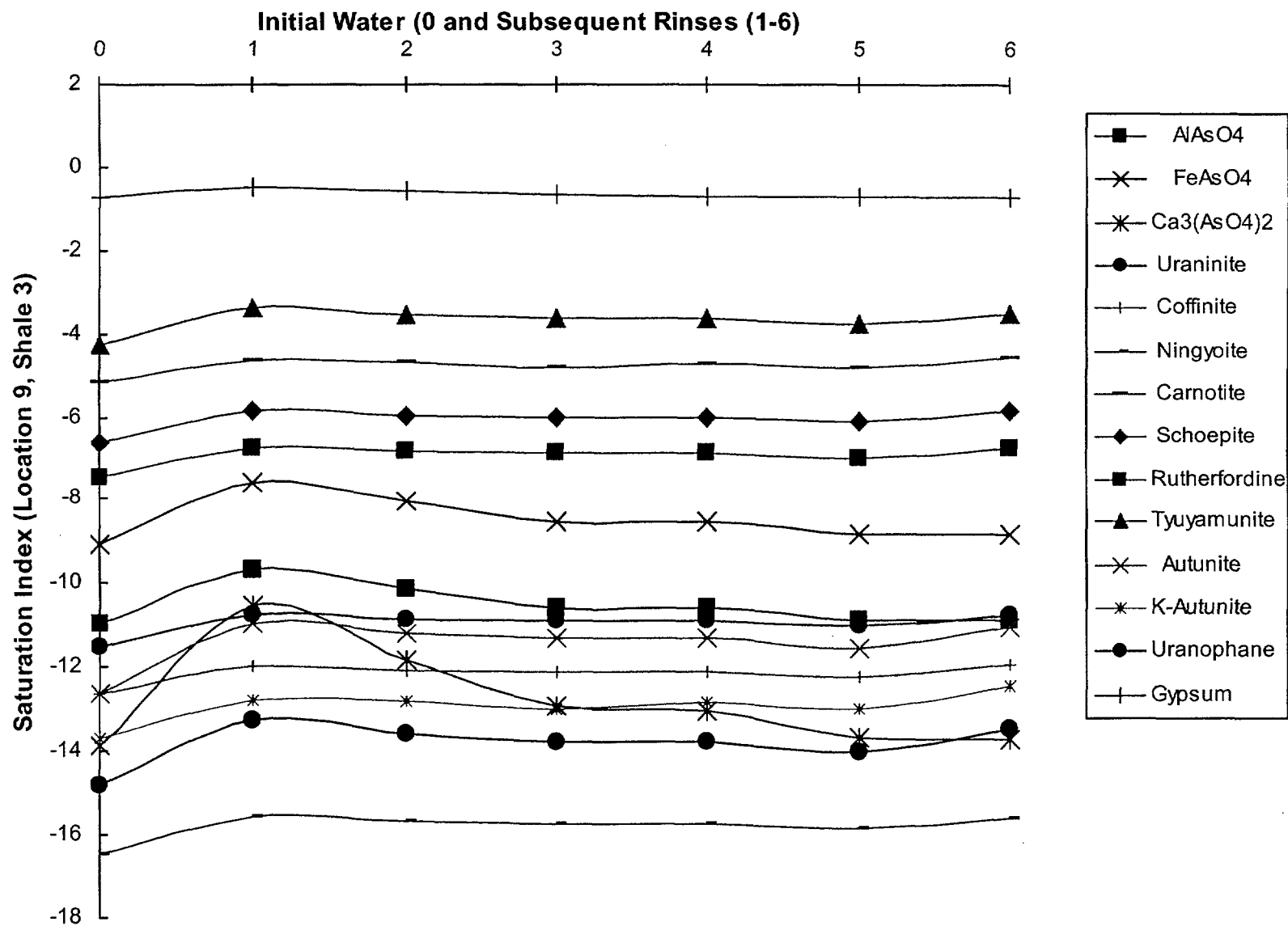


FIGURE 5-8
MINERAL SATURATION INDICES FOR THE SHALE 3 (LOCATION 9)
BATCH TEST SOLUTIONS



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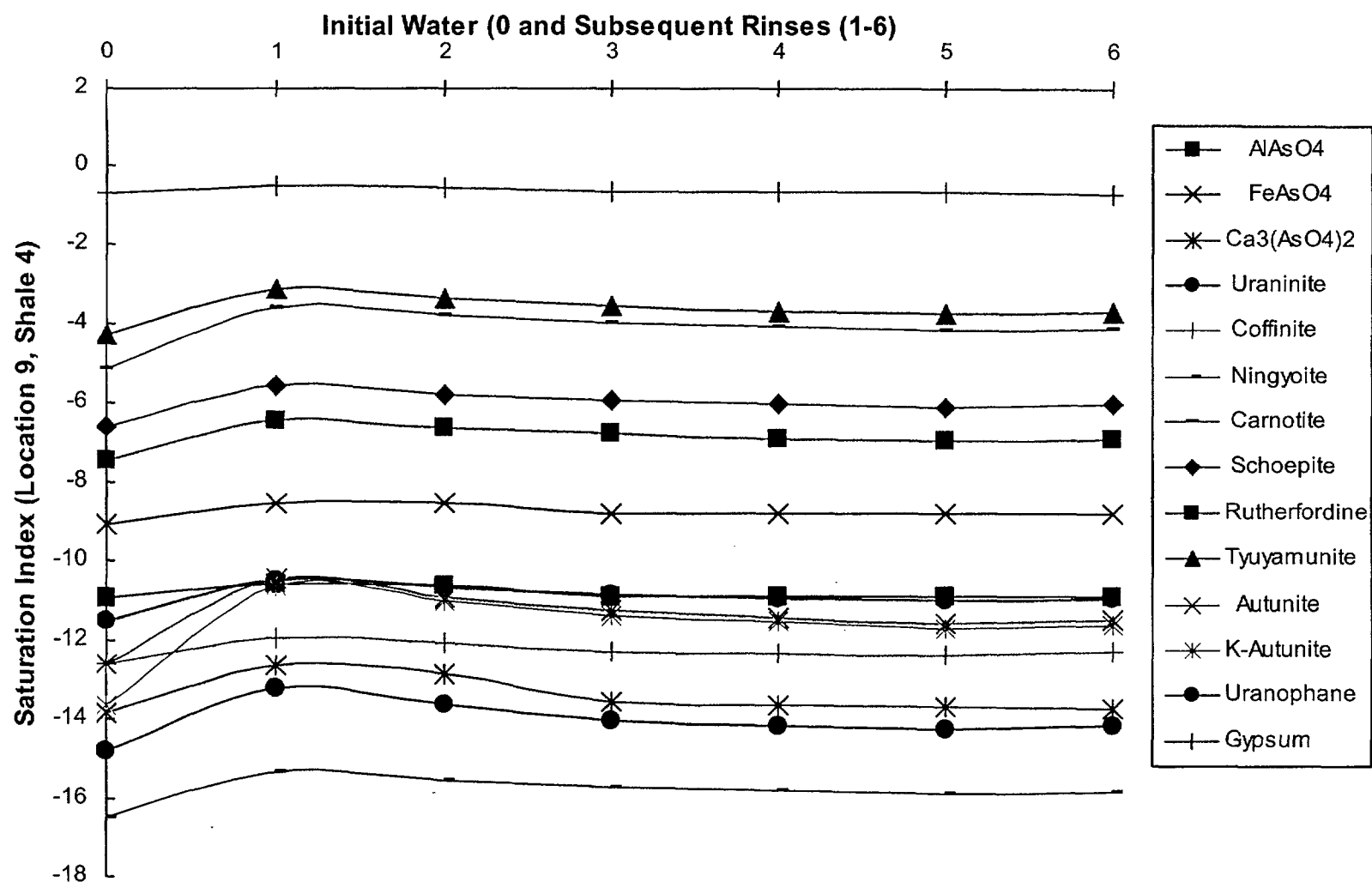


FIGURE 5-9
MINERAL SATURATION INDICES FOR THE SHALE 4 (LOCATION 9)
BATCH TEST SOLUTIONS



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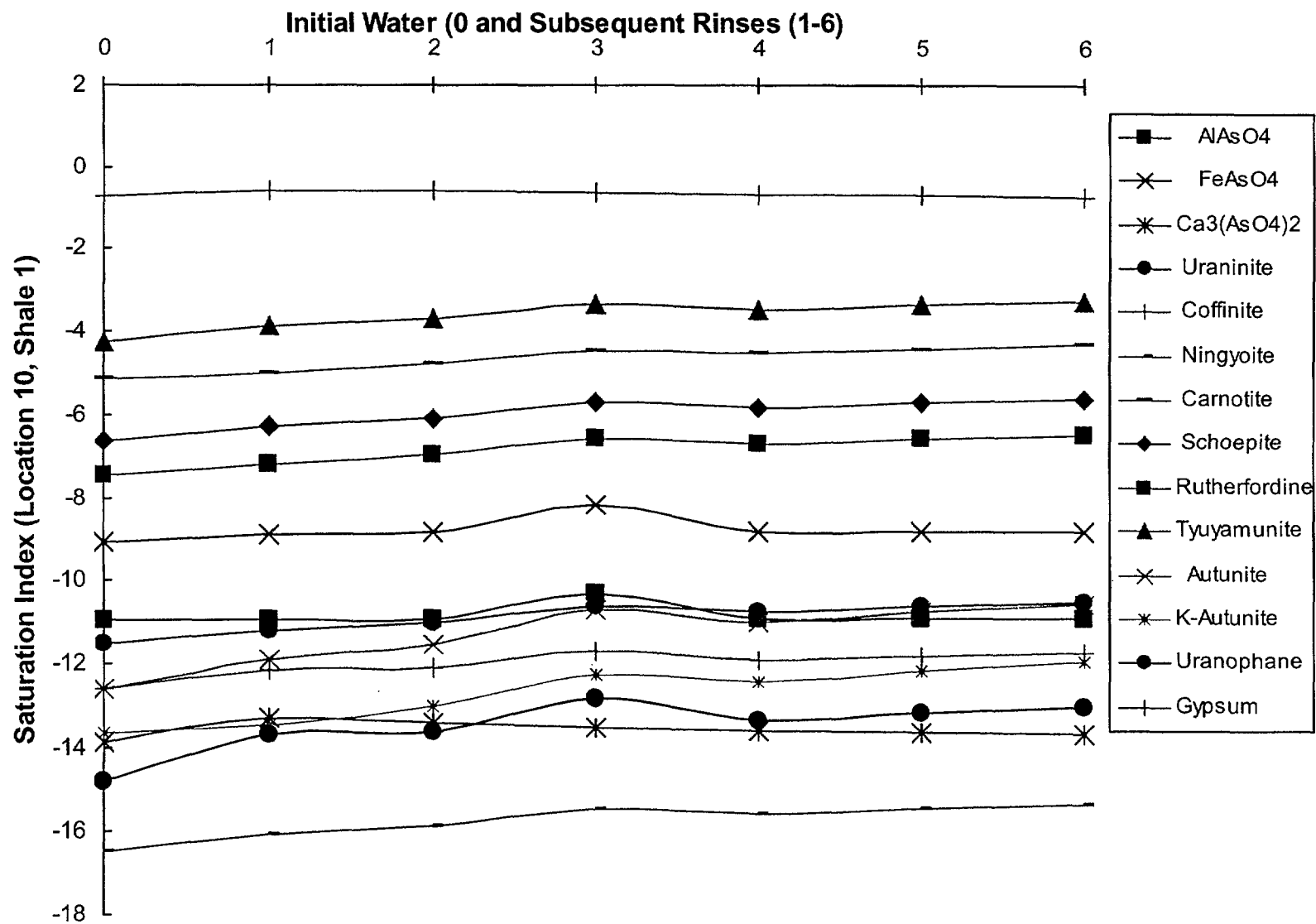


FIGURE 5-10
MINERAL SATURATION INDICES FOR THE SHALE 1 (LOCATION 10)
BATCH TEST SOLUTIONS

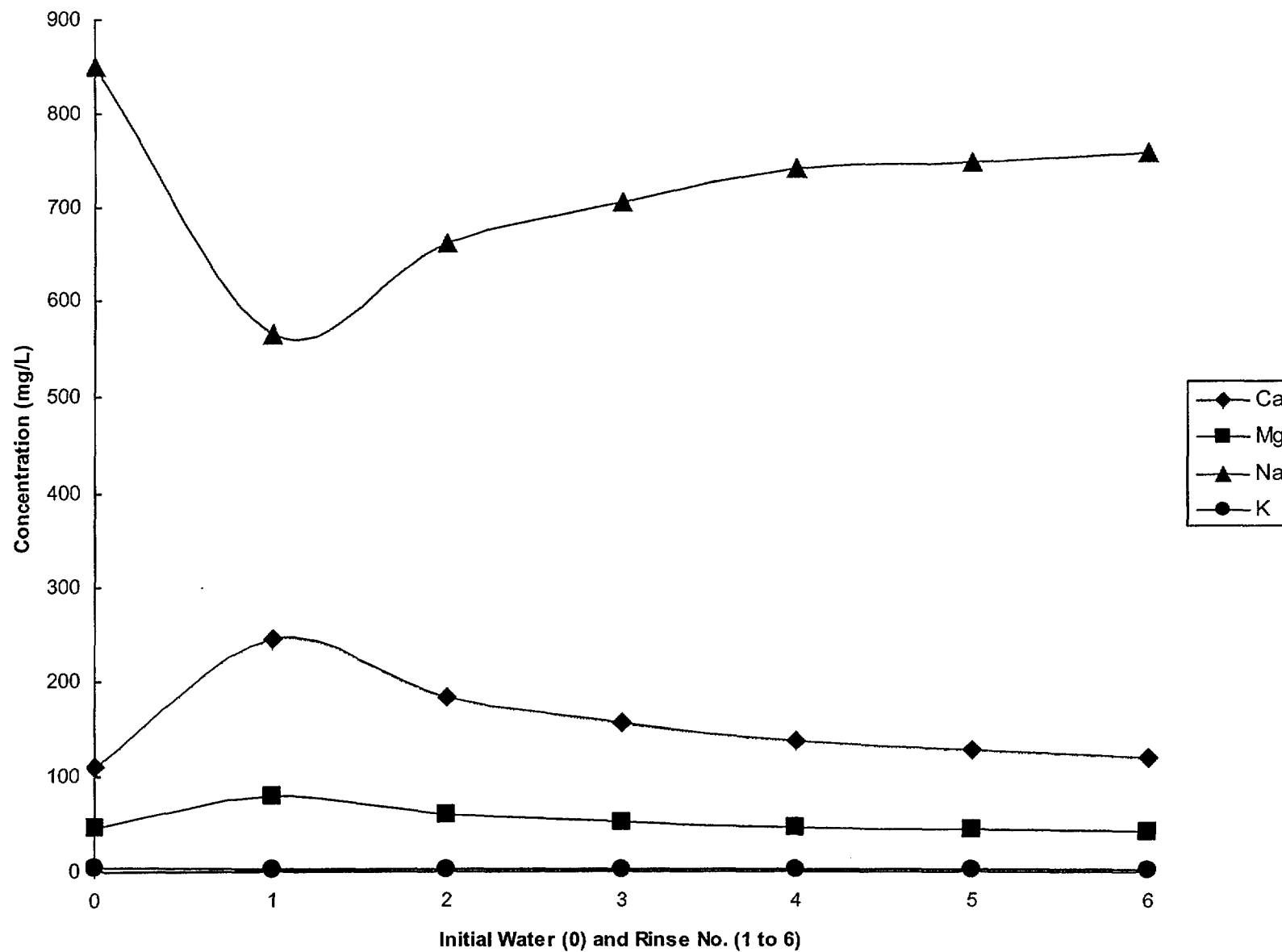


FIGURE 5-11
EXAMPLE OF MAJOR ION CHEMISTRY CHANGES DURING THE K_d
BATCH TESTING



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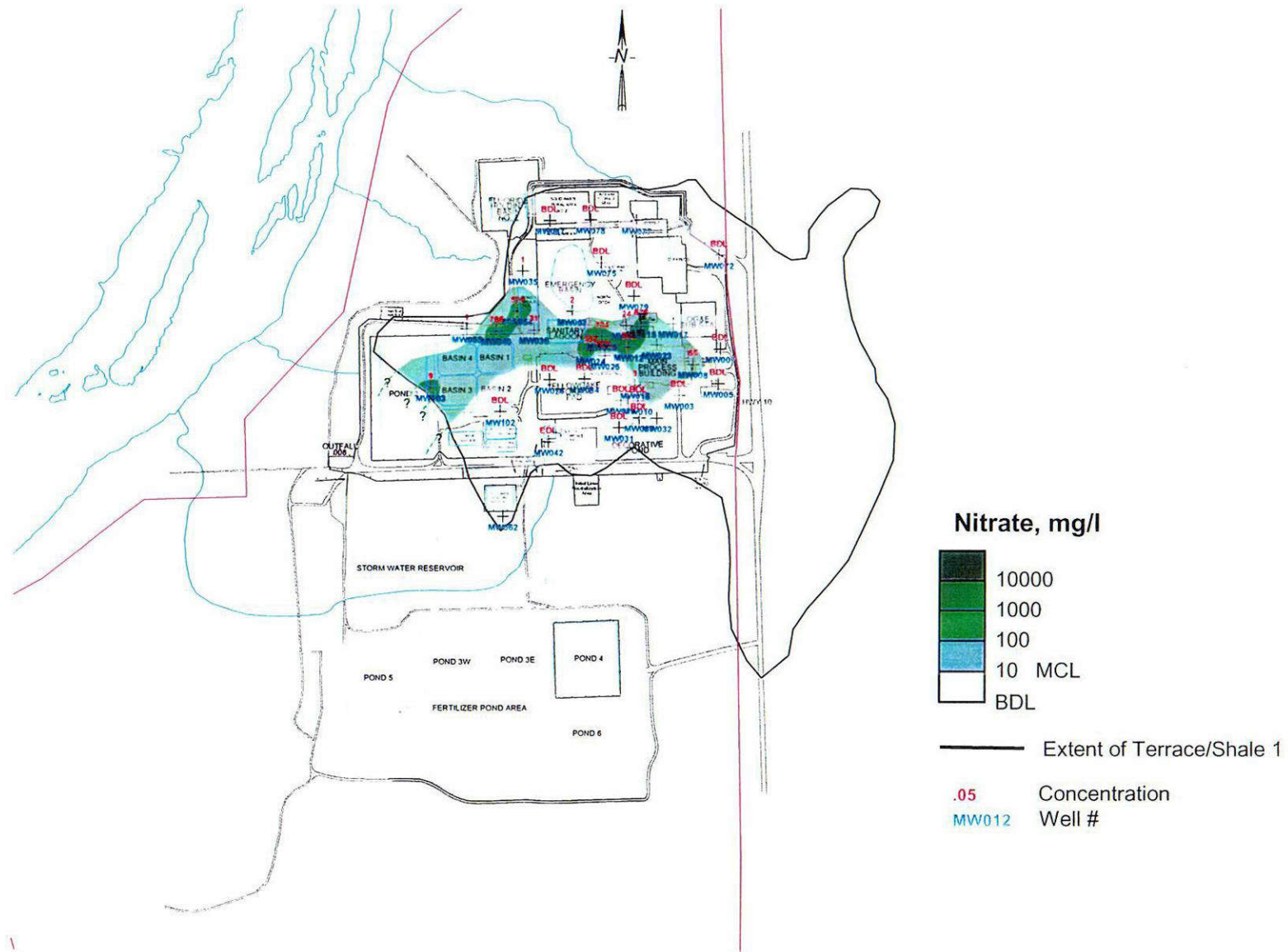


FIGURE 5-12
ISOPLETH OF NITRATE CONCENTRATIONS IN TERRACE/SHALE 1
2001 GROUNDWATER SAMPLING

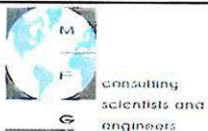
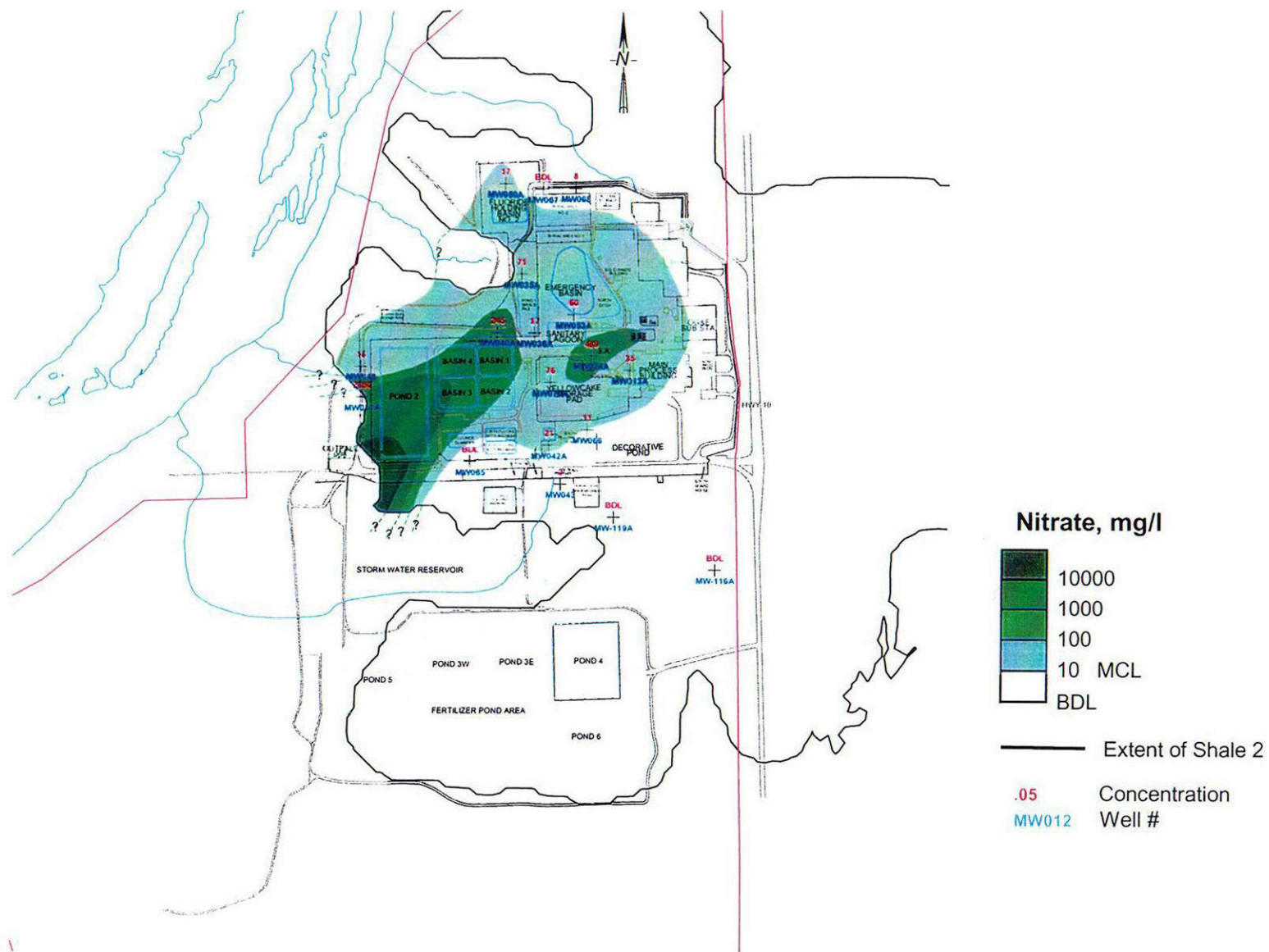
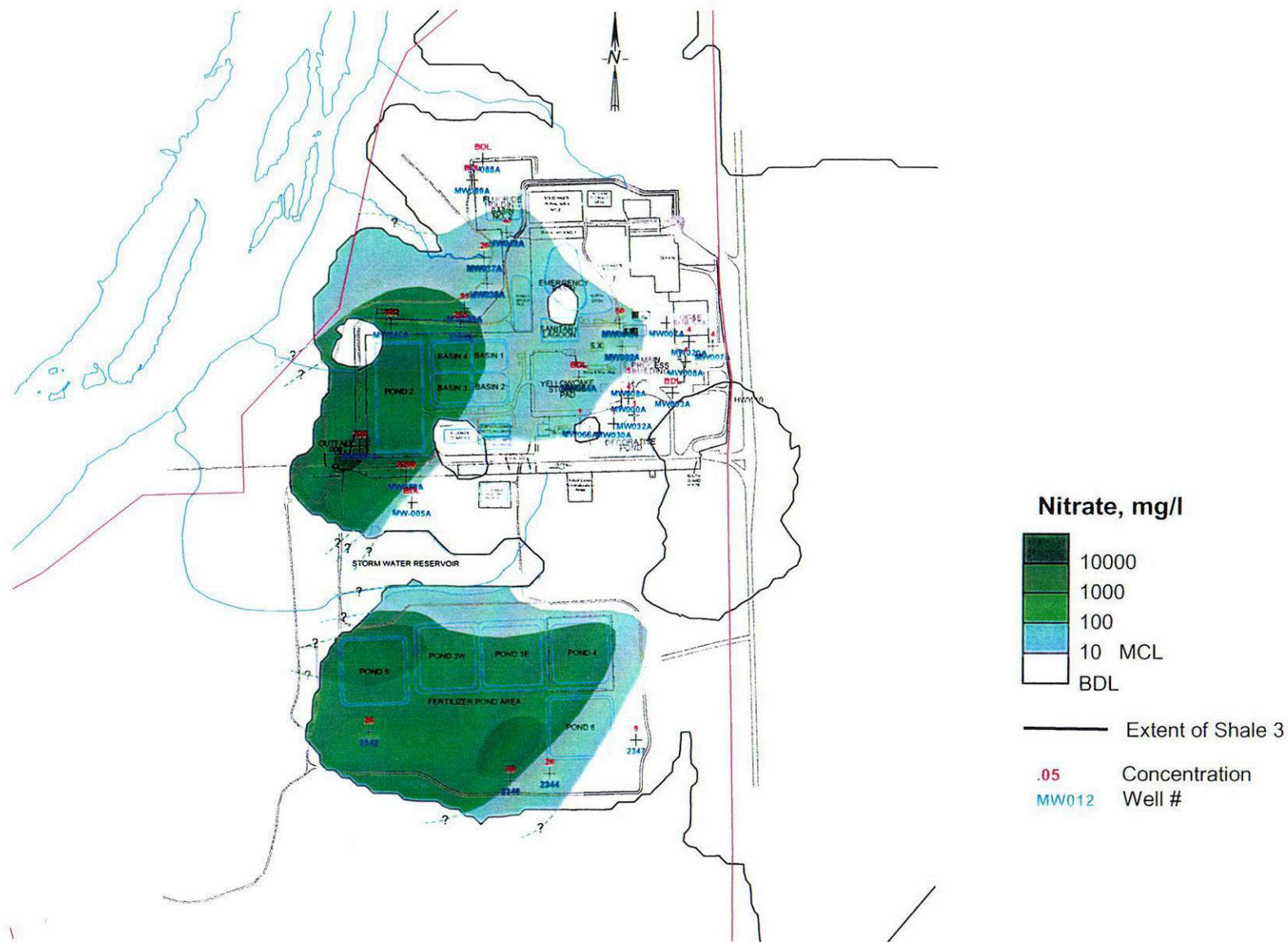


FIGURE 5-13
ISOPLETH OF NITRATE CONCENTRATIONS IN SHALE 2
2001 GROUNDWATER SAMPLING

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FIGURE 5-14
ISOPLETH OF NITRATE CONCENTRATIONS IN SHALE 3
2001 GROUNDWATER SAMPLING

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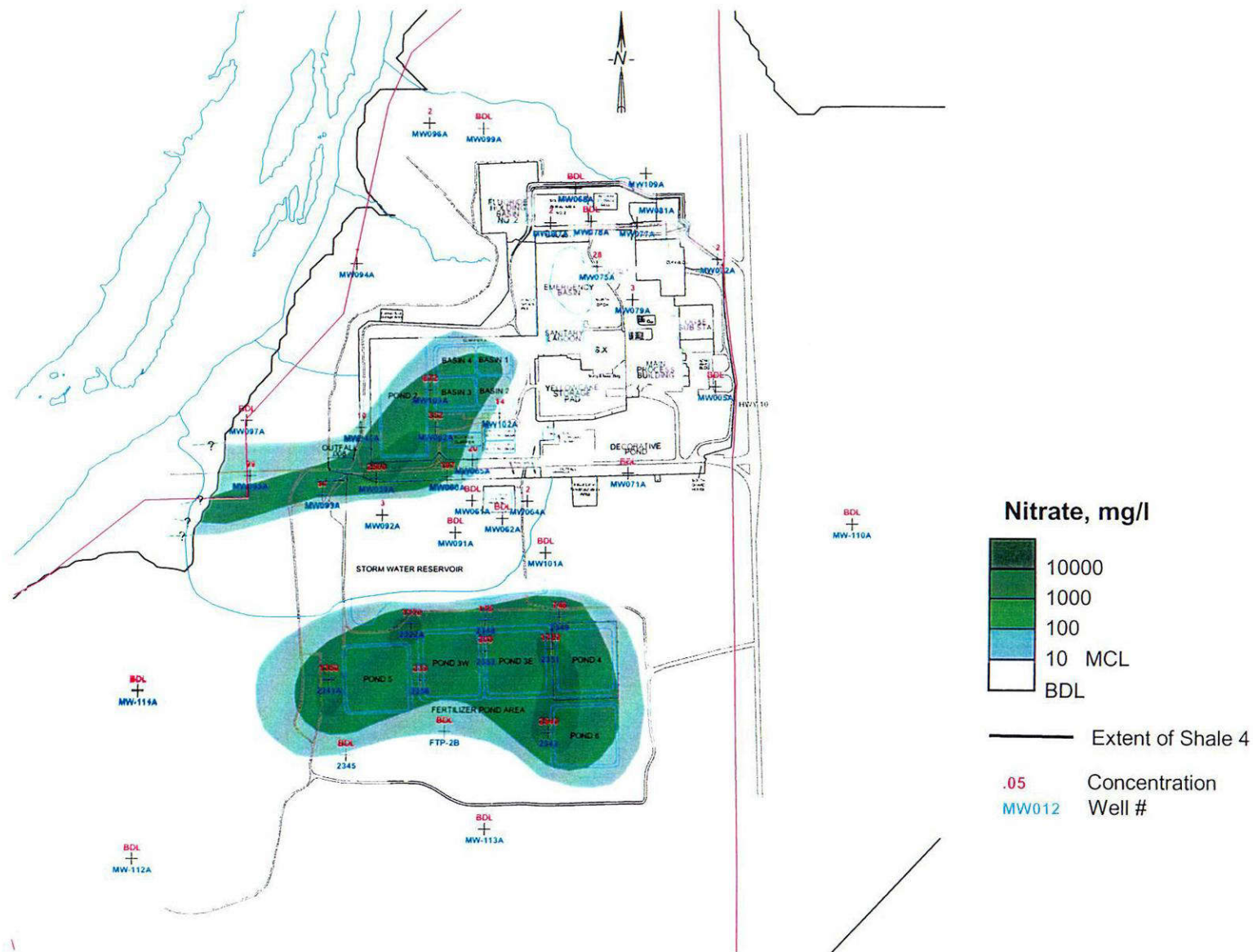
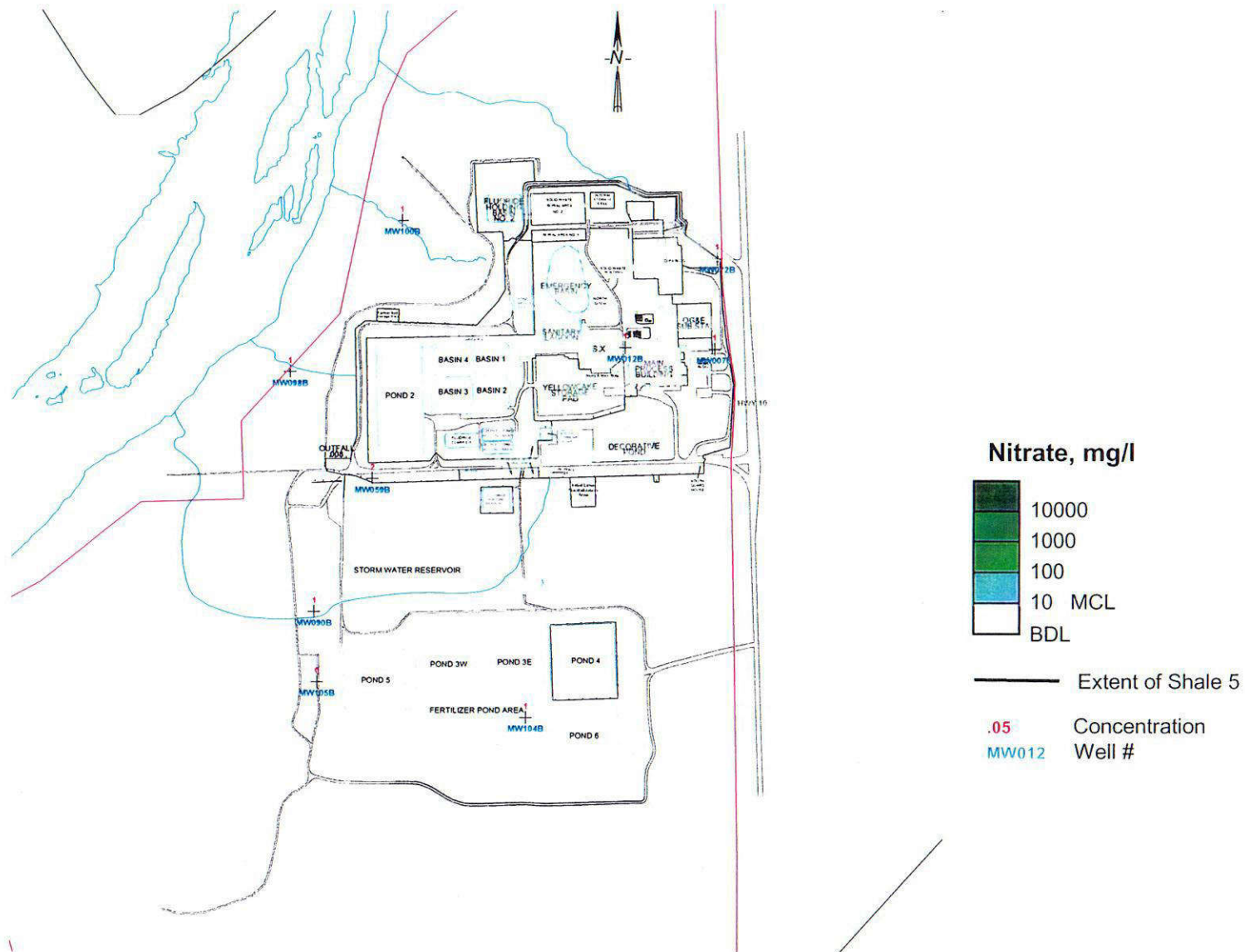


FIGURE 5-15
ISOPLETH OF NITRATE CONCENTRATIONS IN SHALE 4
2001 GROUNDWATER SAMPLING

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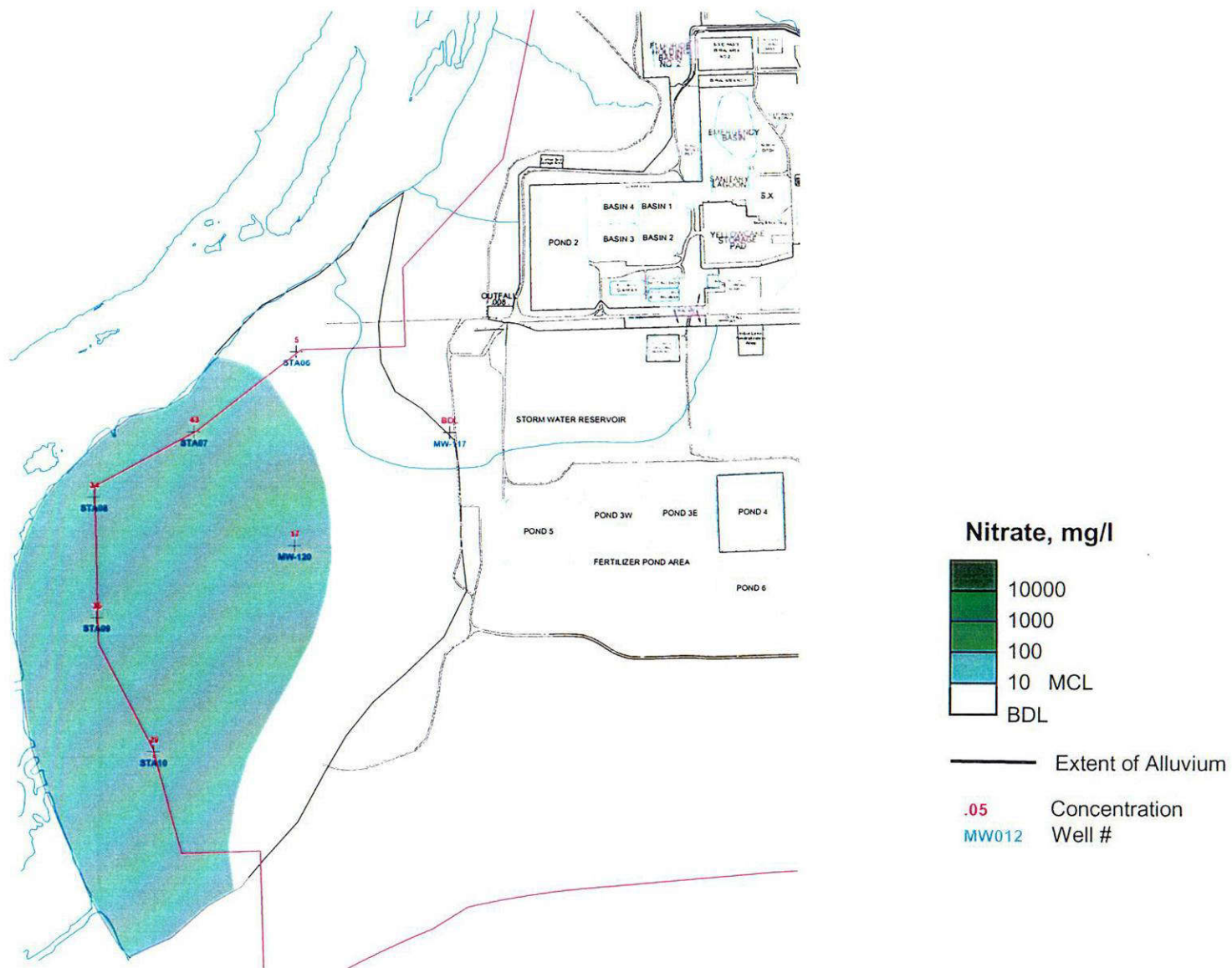
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FIGURE 5-16
ISOPLETH OF NITRATE CONCENTRATIONS IN SHALE 5
2001 GROUNDWATER SAMPLING

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File: ISOPLETH.ppt



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FIGURE 5-17
ISOPLETH OF NITRATE CONCENTRATIONS IN ALLUVIUM
2001 GROUNDWATER SAMPLING

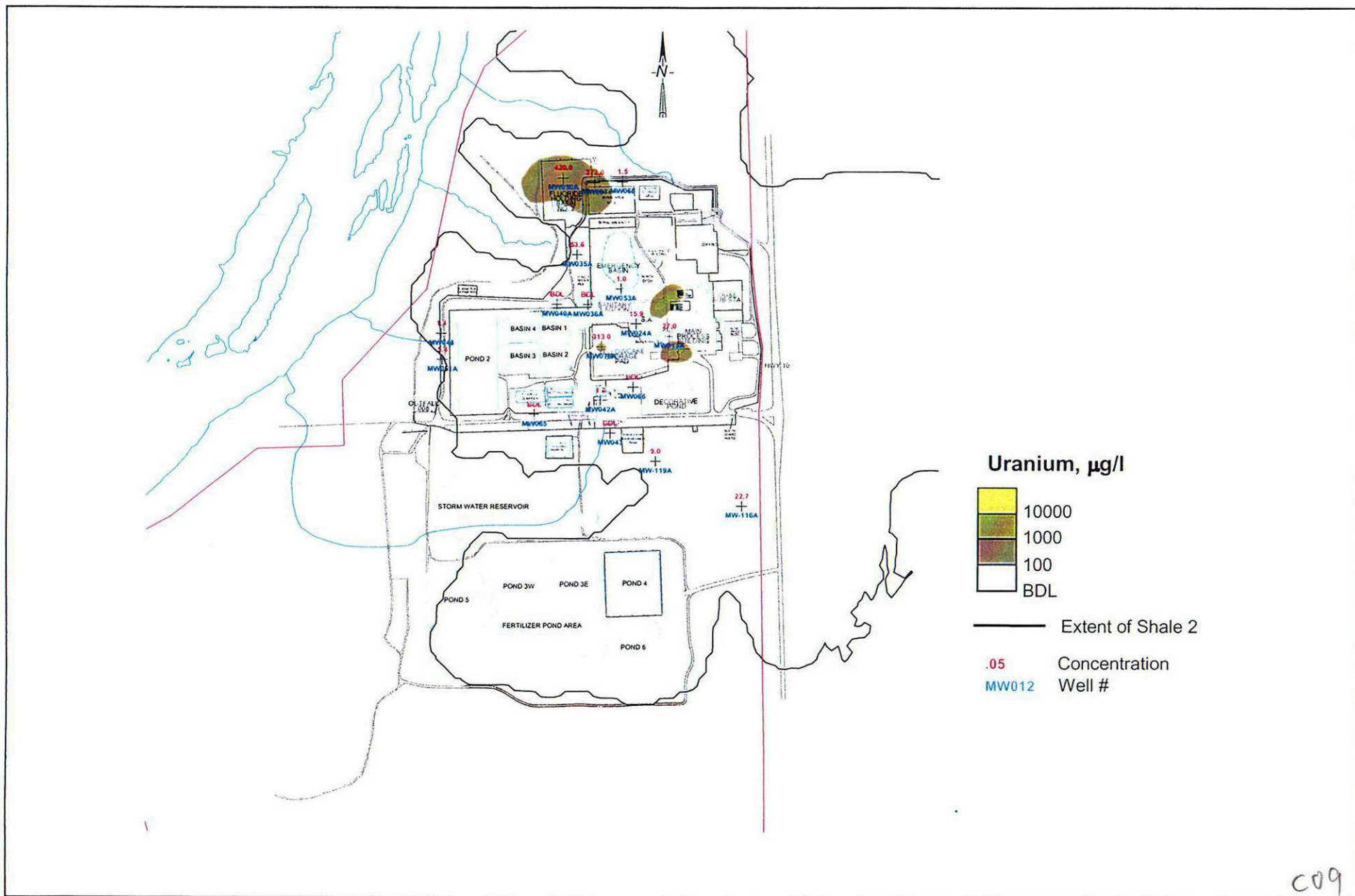
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FIGURE 5-18
ISOPLETH OF URANIUM CONCENTRATIONS IN TERRACE/SHALE 1
2001 GROUNDWATER SAMPLING



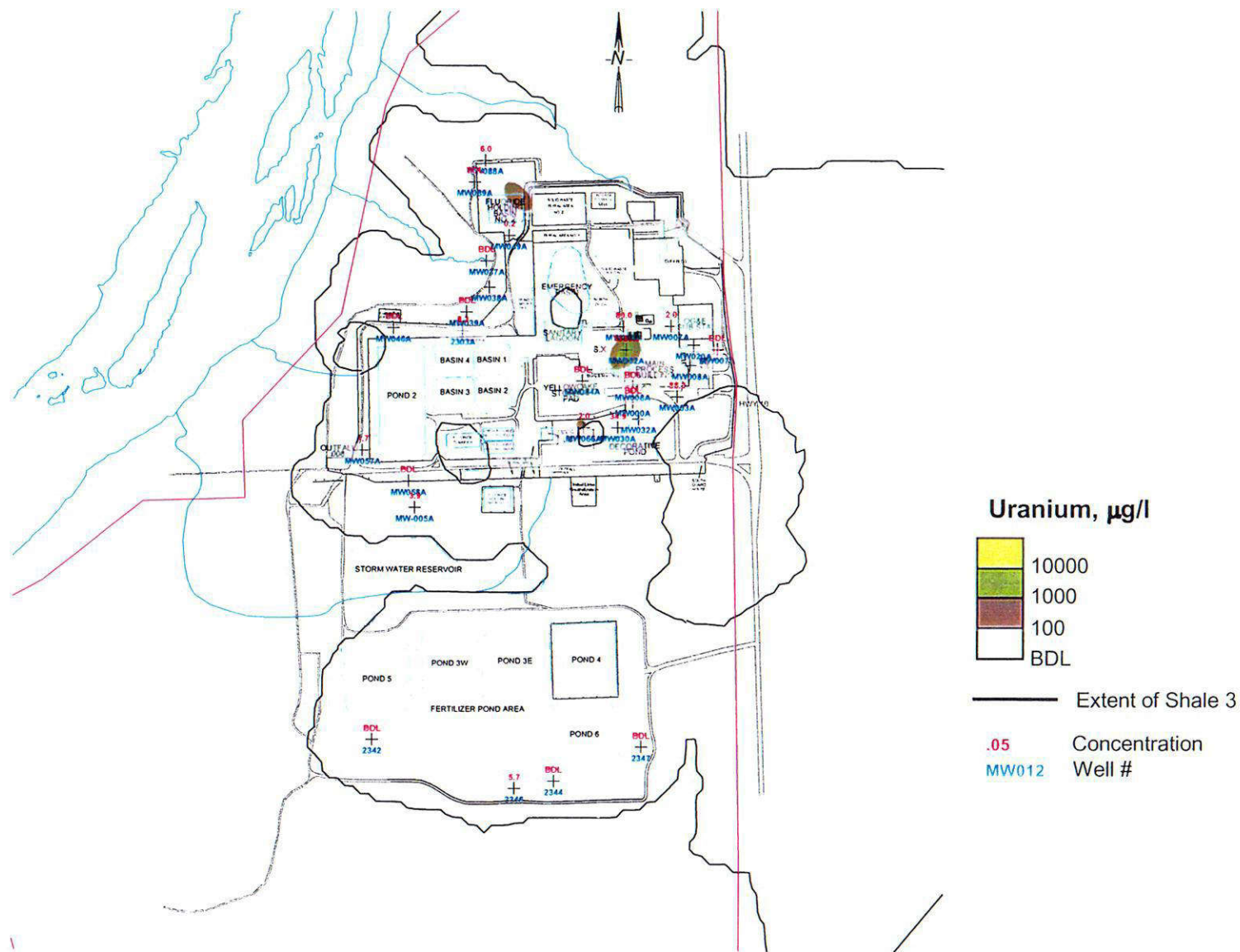
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FIGURE 5-19
ISOPLETH OF URANIUM CONCENTRATIONS IN SHALE 2
2001 GROUNDWATER SAMPLING

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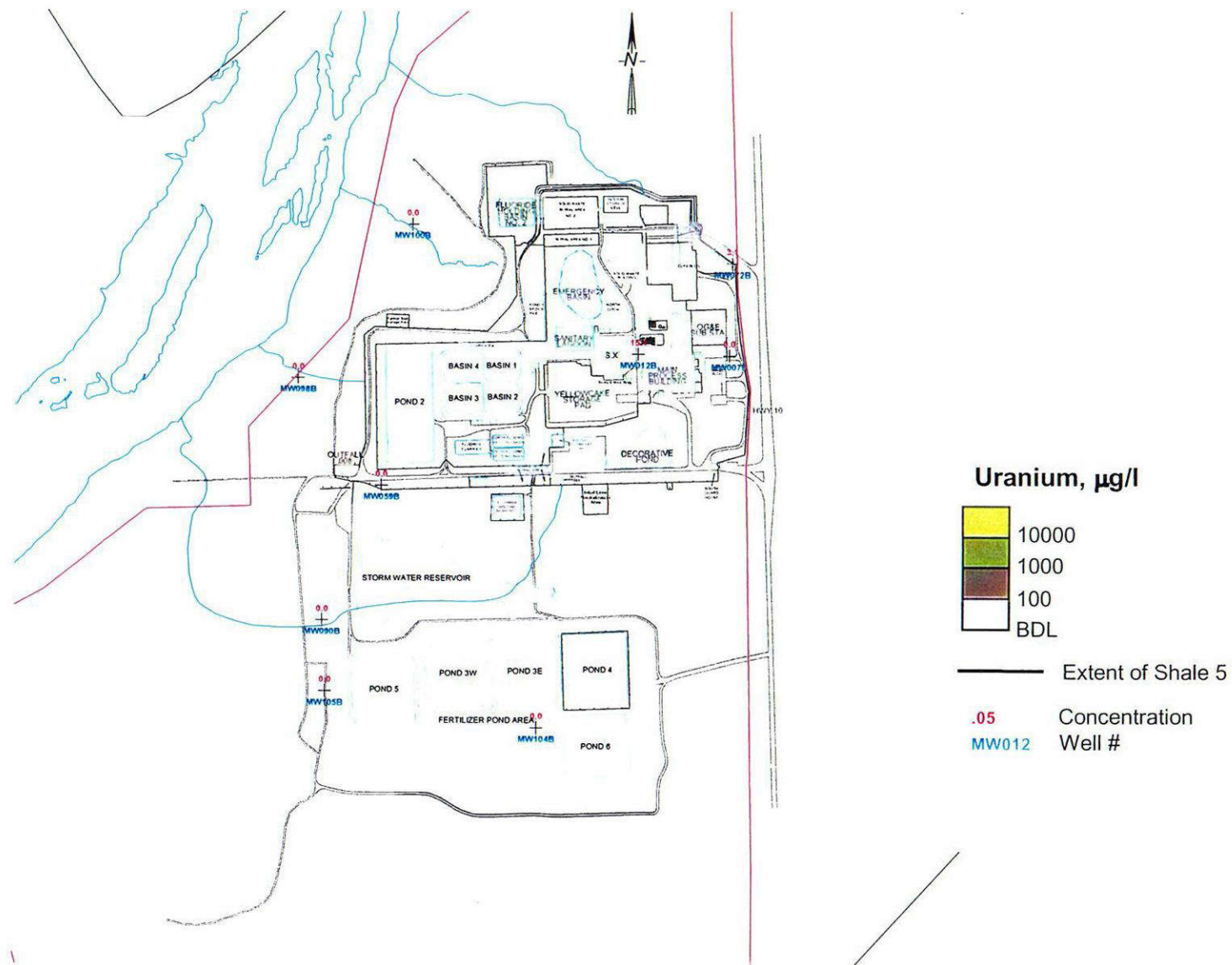
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FIGURE 5-20
ISOPLETH OF URANIUM CONCENTRATIONS IN SHALE 3
2001 GROUNDWATER SAMPLING

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File: ISOPLETH.ppt



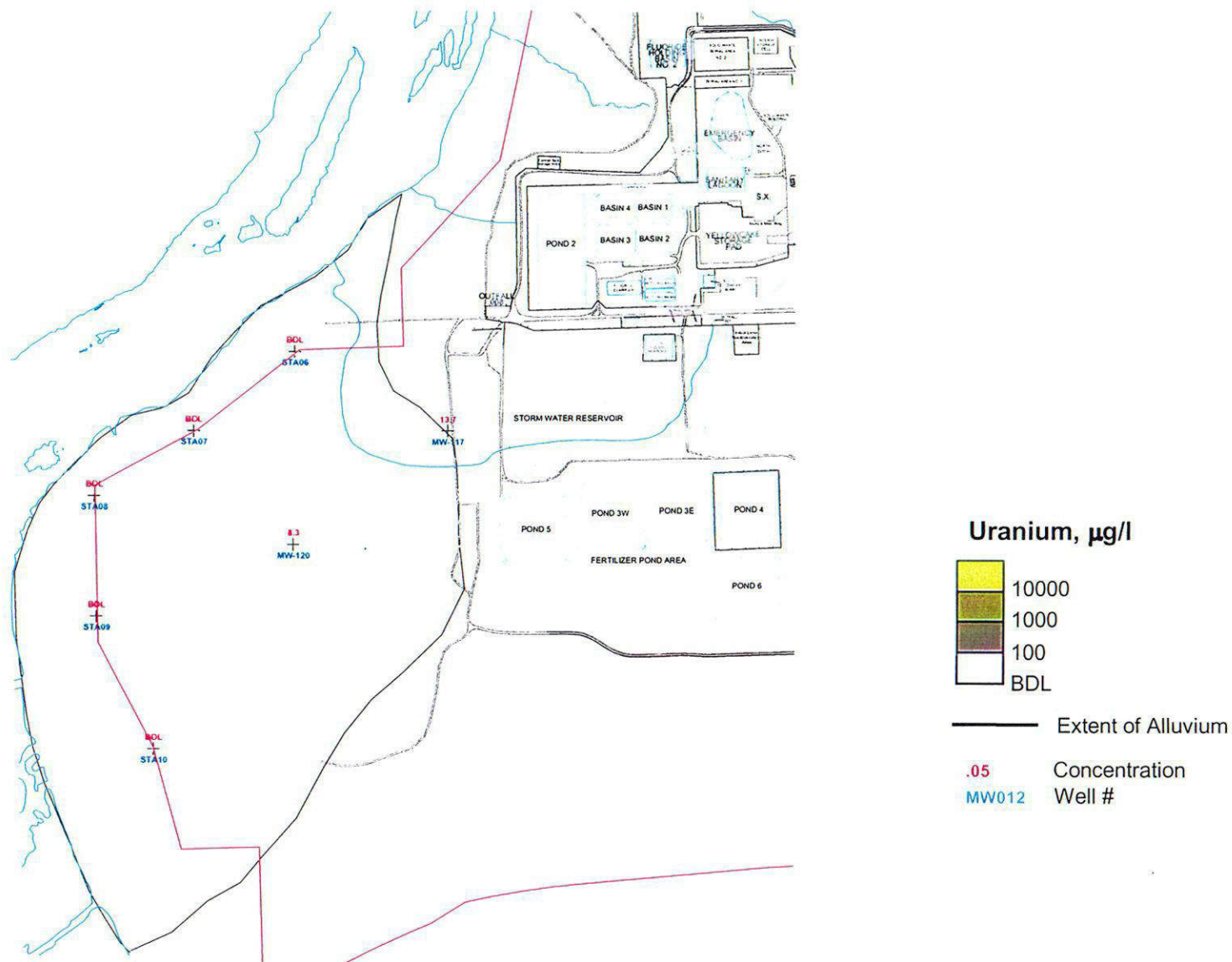
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FIGURE 5-22
ISOPLETH OF URANIUM CONCENTRATIONS IN SHALE 5
2001 GROUNDWATER SAMPLING

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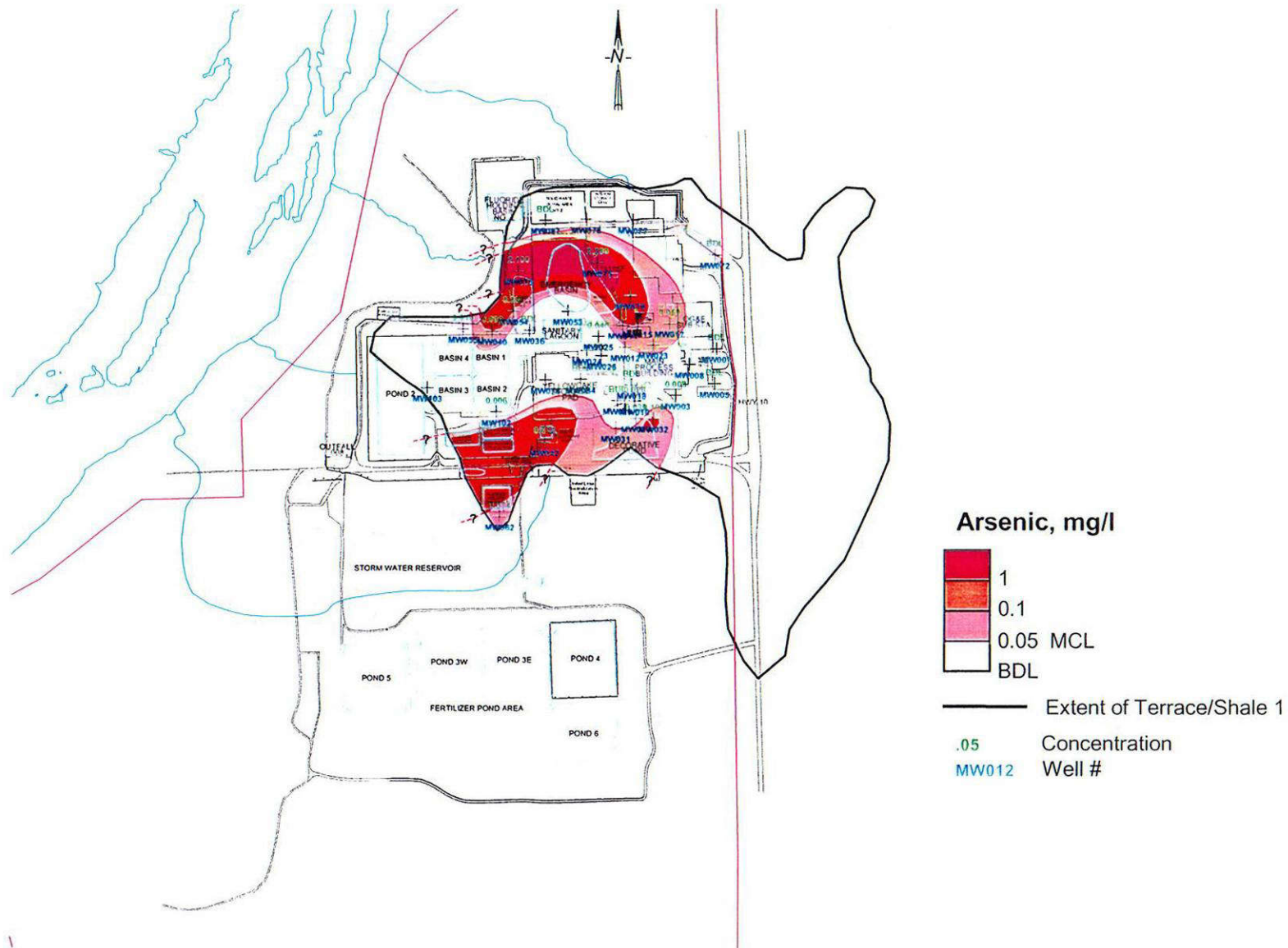
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FIGURE 5-23
ISOPLETH OF URANIUM CONCENTRATIONS IN ALLUVIUM
2001 GROUNDWATER SAMPLING

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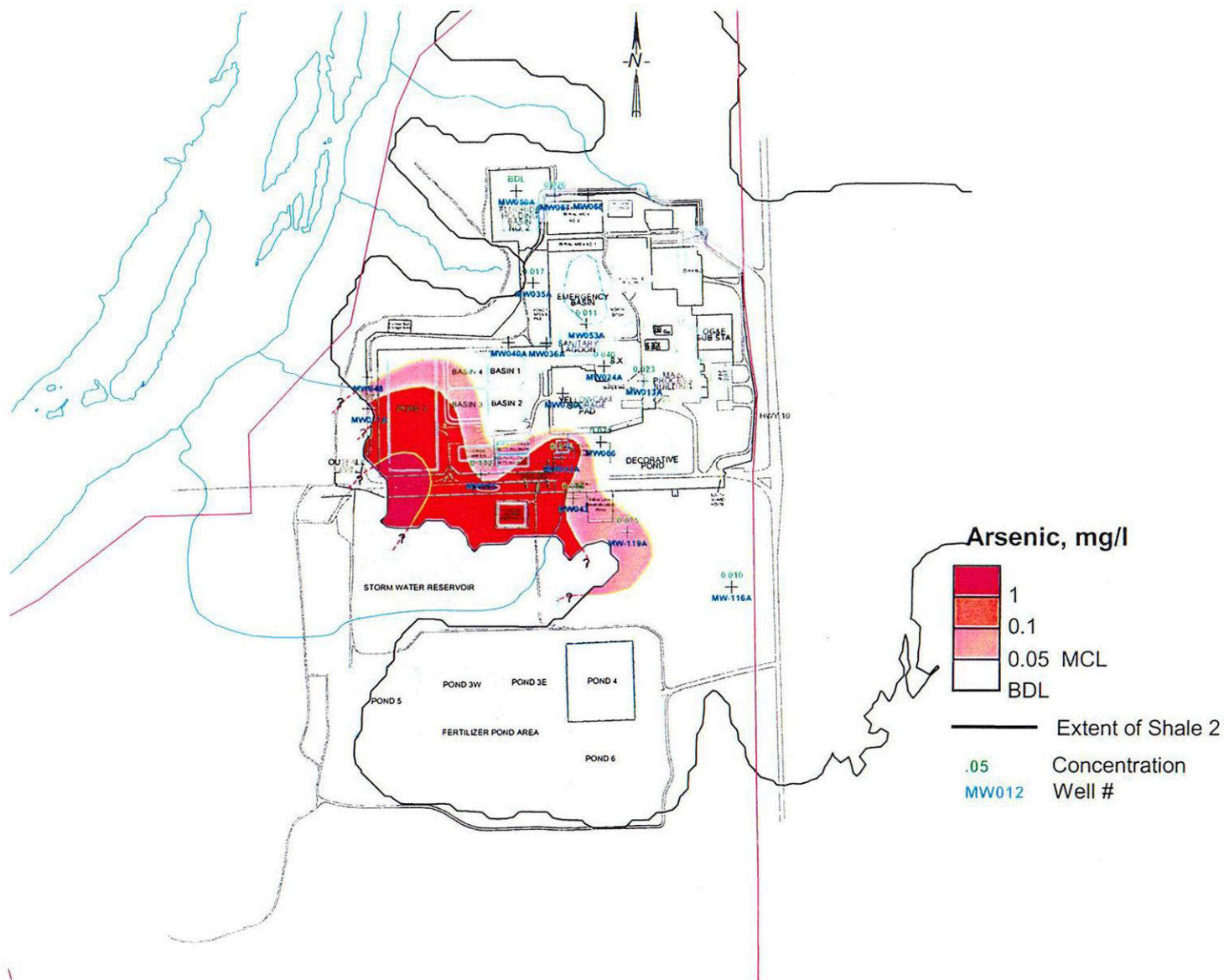
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FIGURE 5-24
ISOPLETH OF ARSENIC CONCENTRATIONS IN TERRACE/SHALE 1
2001 GROUNDWATER SAMPLING

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File: ISOPLETH.ppt



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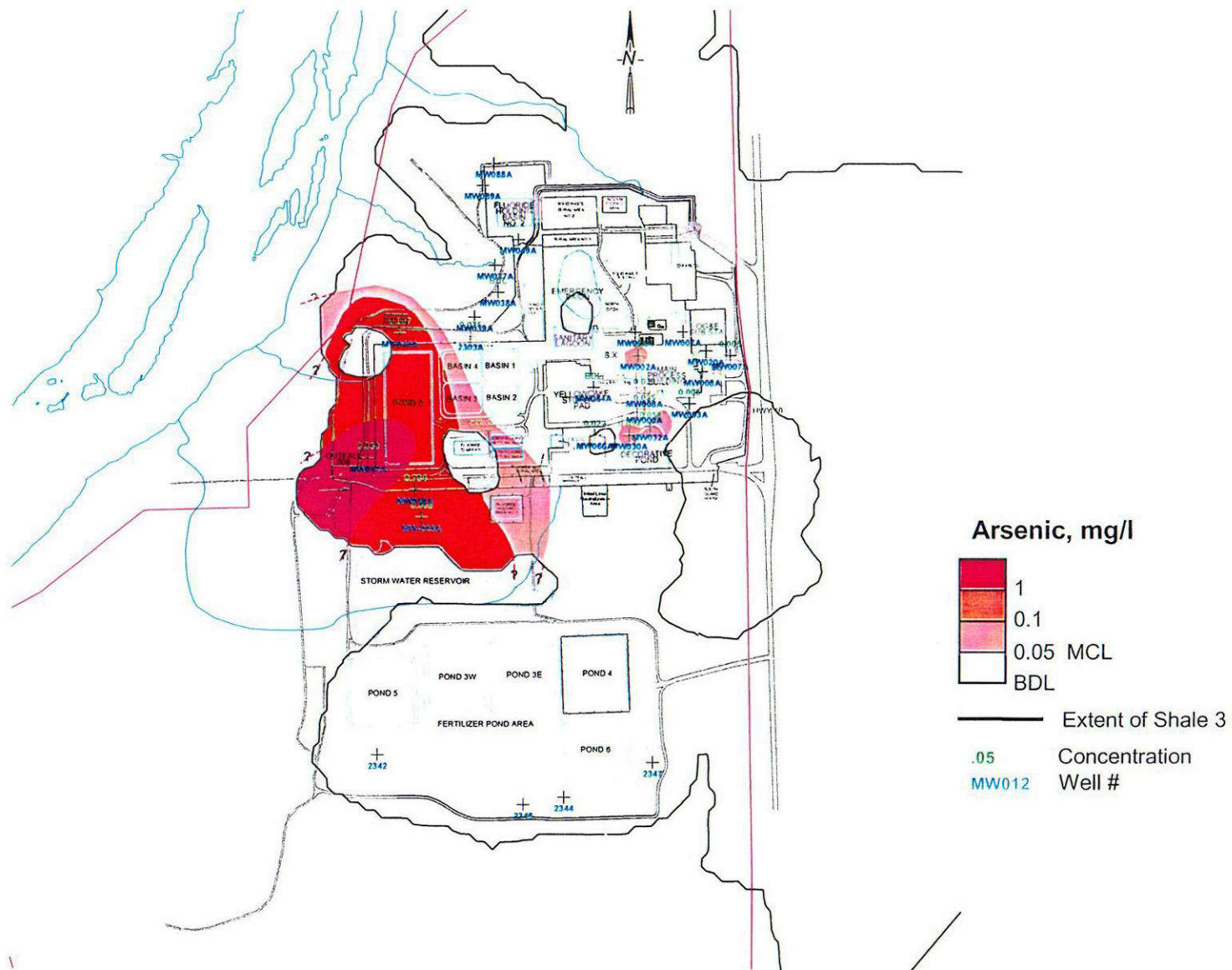
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FIGURE 5-25
ISOPLETH OF ARSENIC CONCENTRATIONS IN SHALE 2
2001 GROUNDWATER SAMPLING

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FIGURE 5-26
ISOPLETH OF ARSENIC CONCENTRATIONS IN SHALE 3
2001 GROUNDWATER SAMPLING

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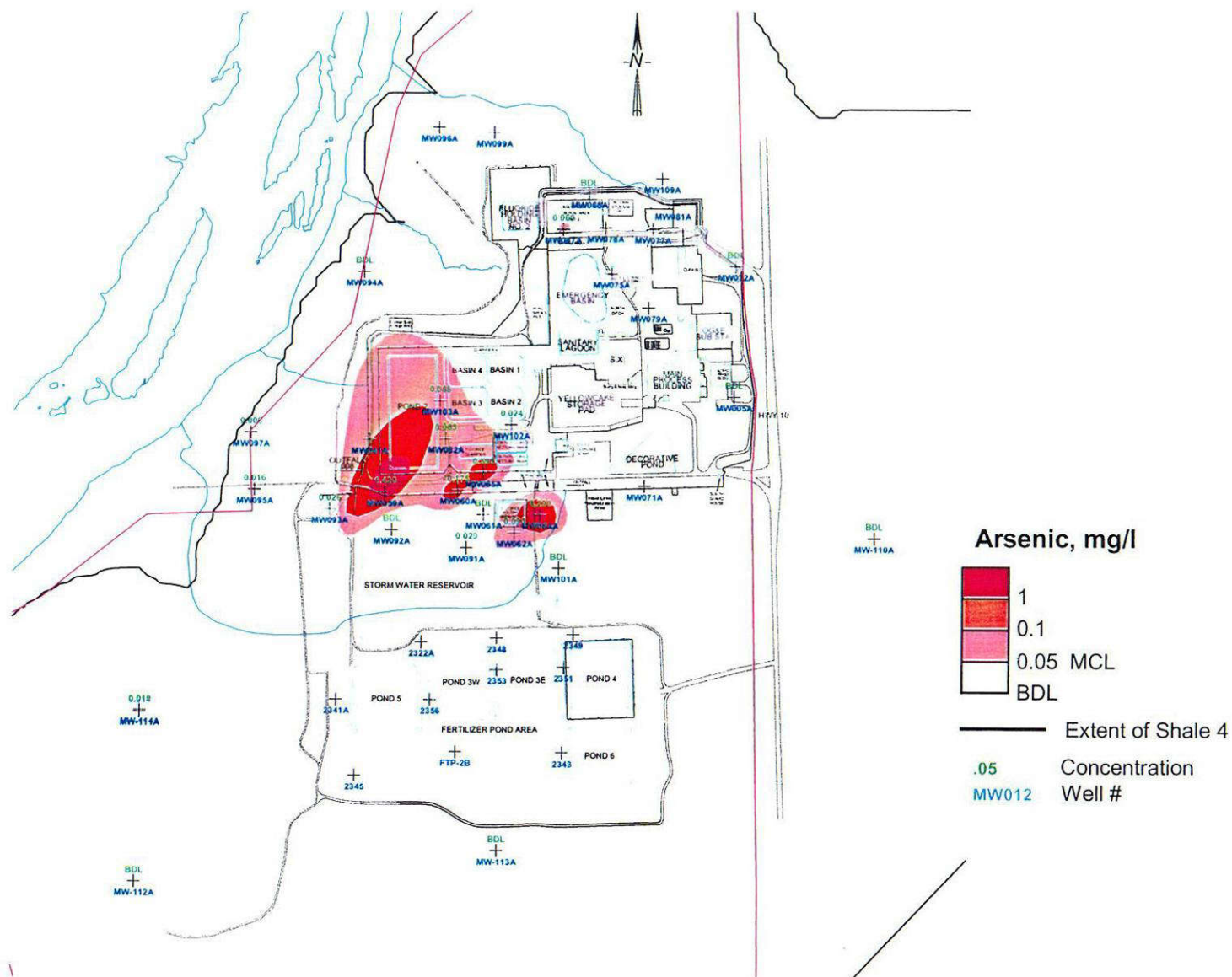
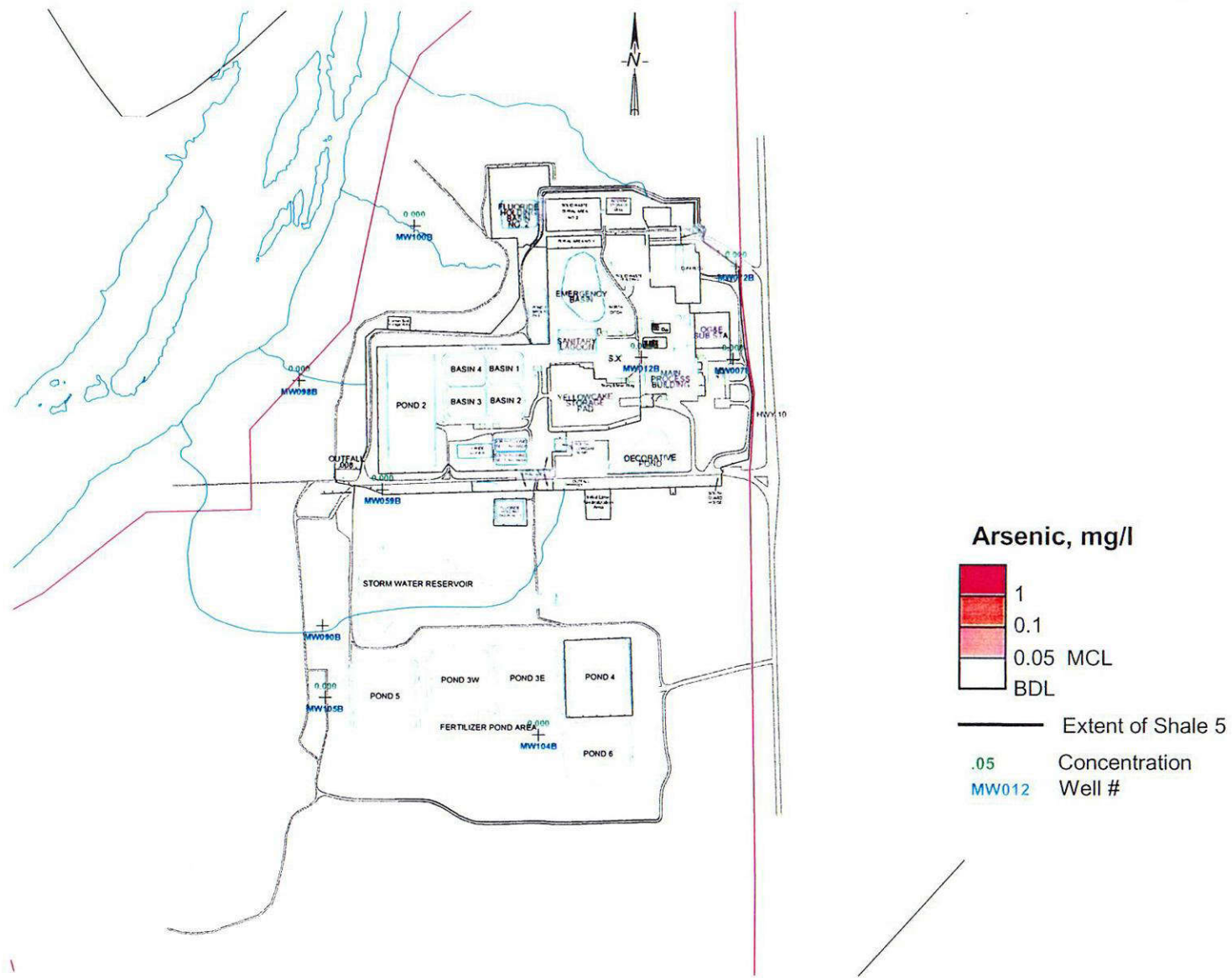


FIGURE 5-27
ISOPLETH OF ARSENIC CONCENTRATIONS IN SHALE 4
2001 GROUNDWATER SAMPLING



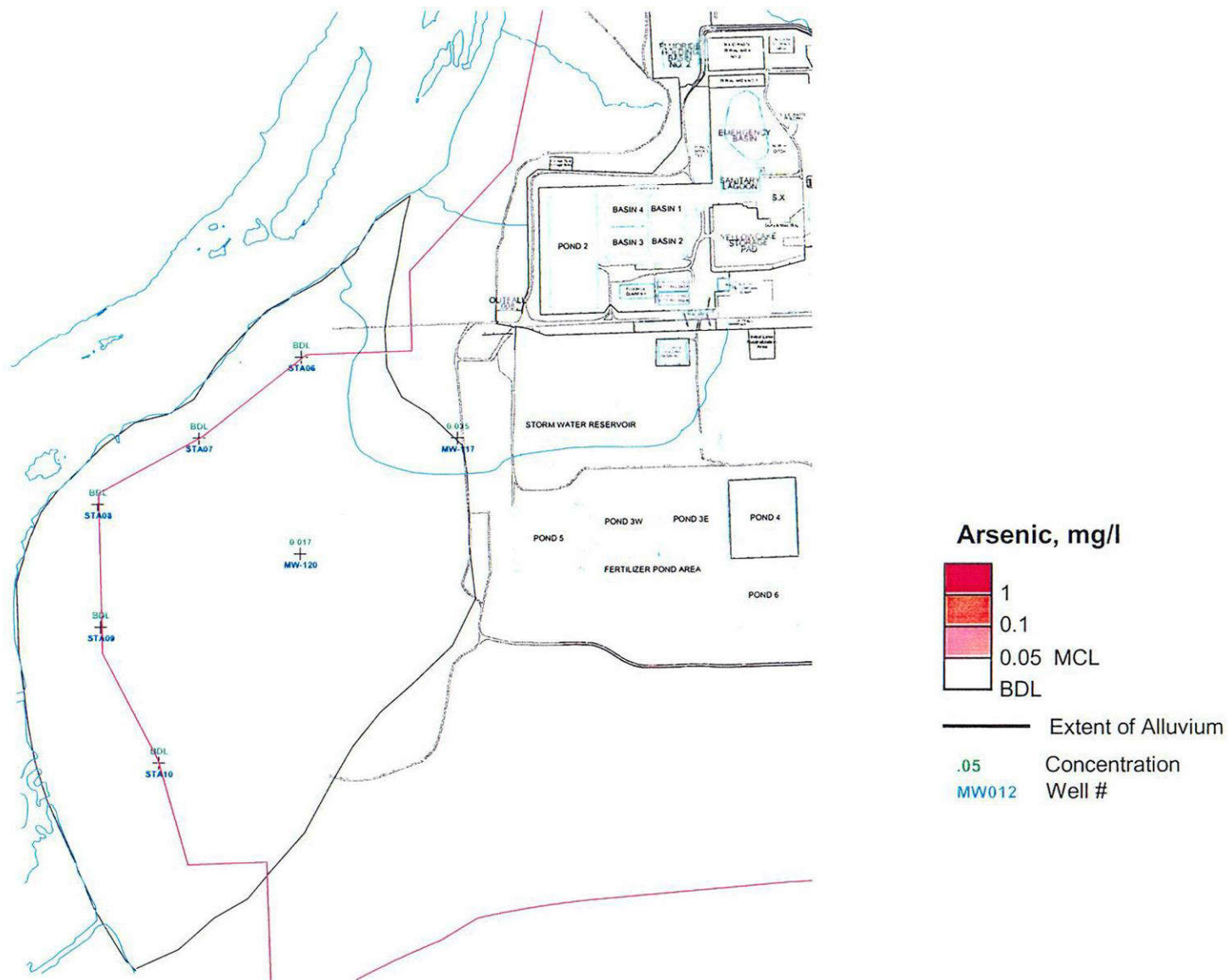
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FIGURE 5-28
ISOPLETH OF ARSENIC CONCENTRATIONS IN SHALE 5
2001 GROUNDWATER SAMPLING

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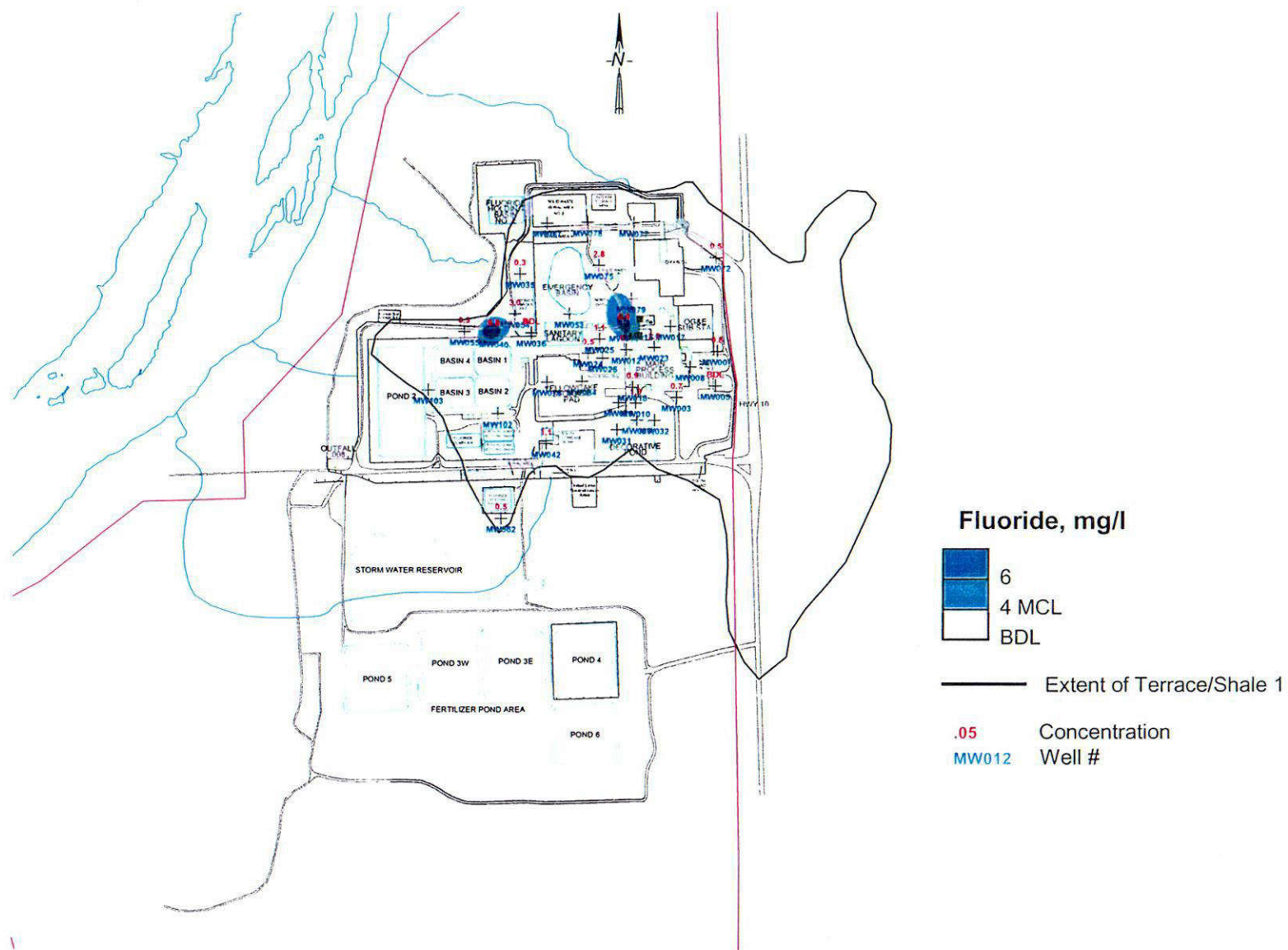
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FIGURE 5-29
ISOPLETH OF ARSENIC CONCENTRATIONS IN ALLUVIUM
2001 GROUNDWATER SAMPLING

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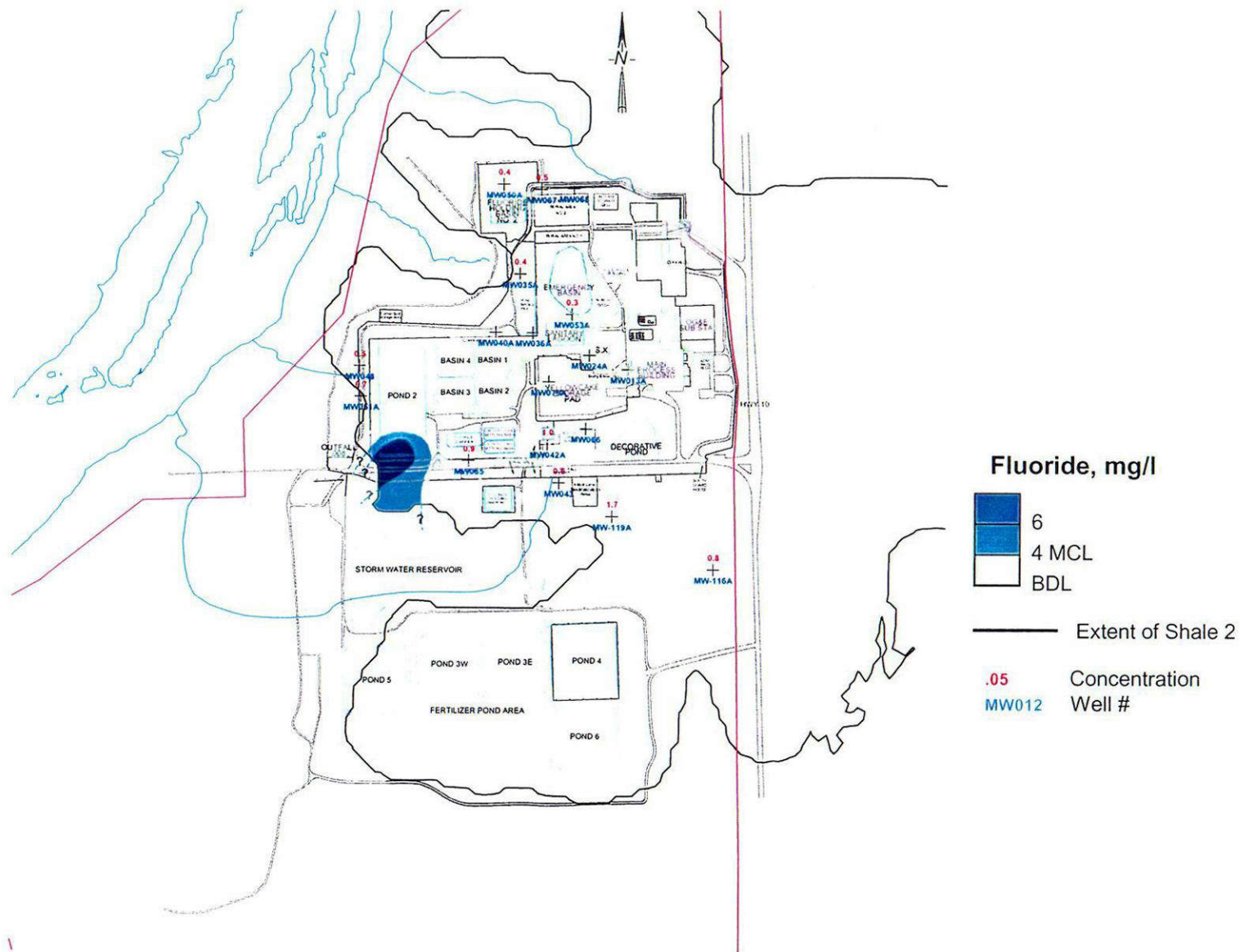
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FIGURE 5-30
ISOPLETH OF FLUORIDE CONCENTRATIONS IN TERRACE/SHALE 1
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File: ISOPLETH.ppt



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FIGURE 5-31
ISOPLETH OF FLUORIDE CONCENTRATIONS IN SHALE 2
2001 GROUNDWATER SAMPLING

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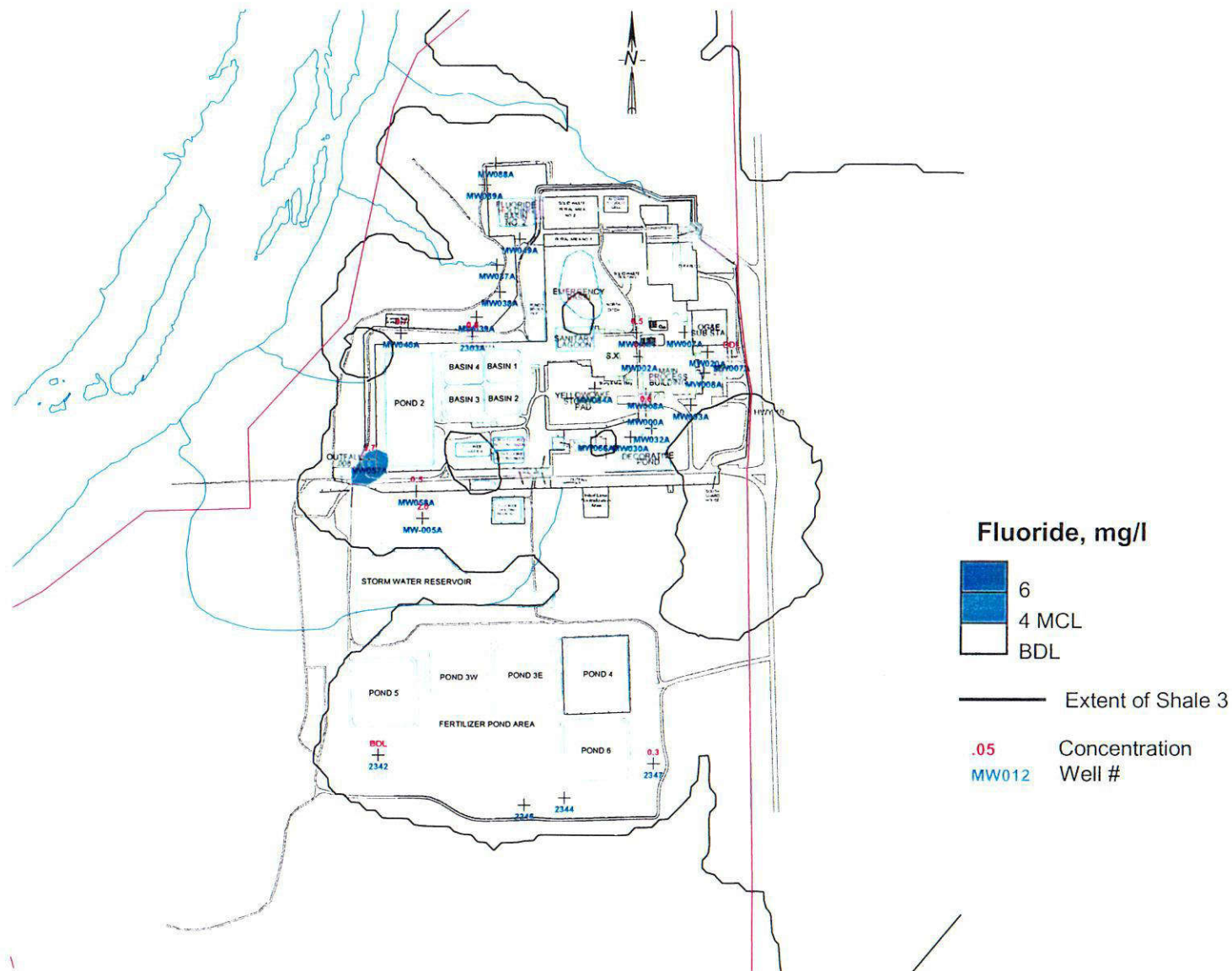


FIGURE 5-32
ISOPLETH OF FLUORIDE CONCENTRATIONS IN SHALE 3
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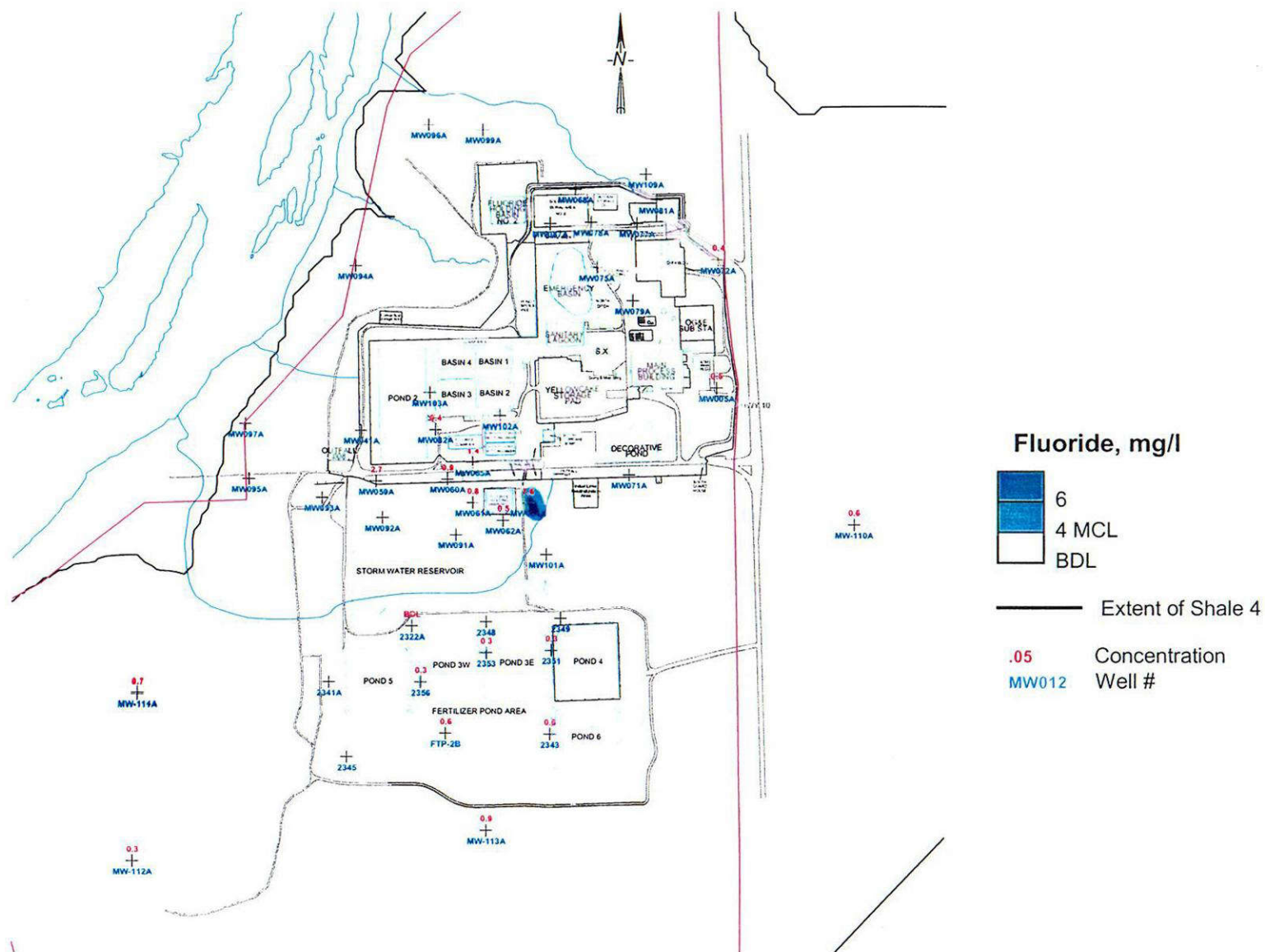


FIGURE 5-33
ISOPLETH OF FLUORIDE CONCENTRATIONS IN SHALE 4
2001 GROUNDWATER SAMPLING

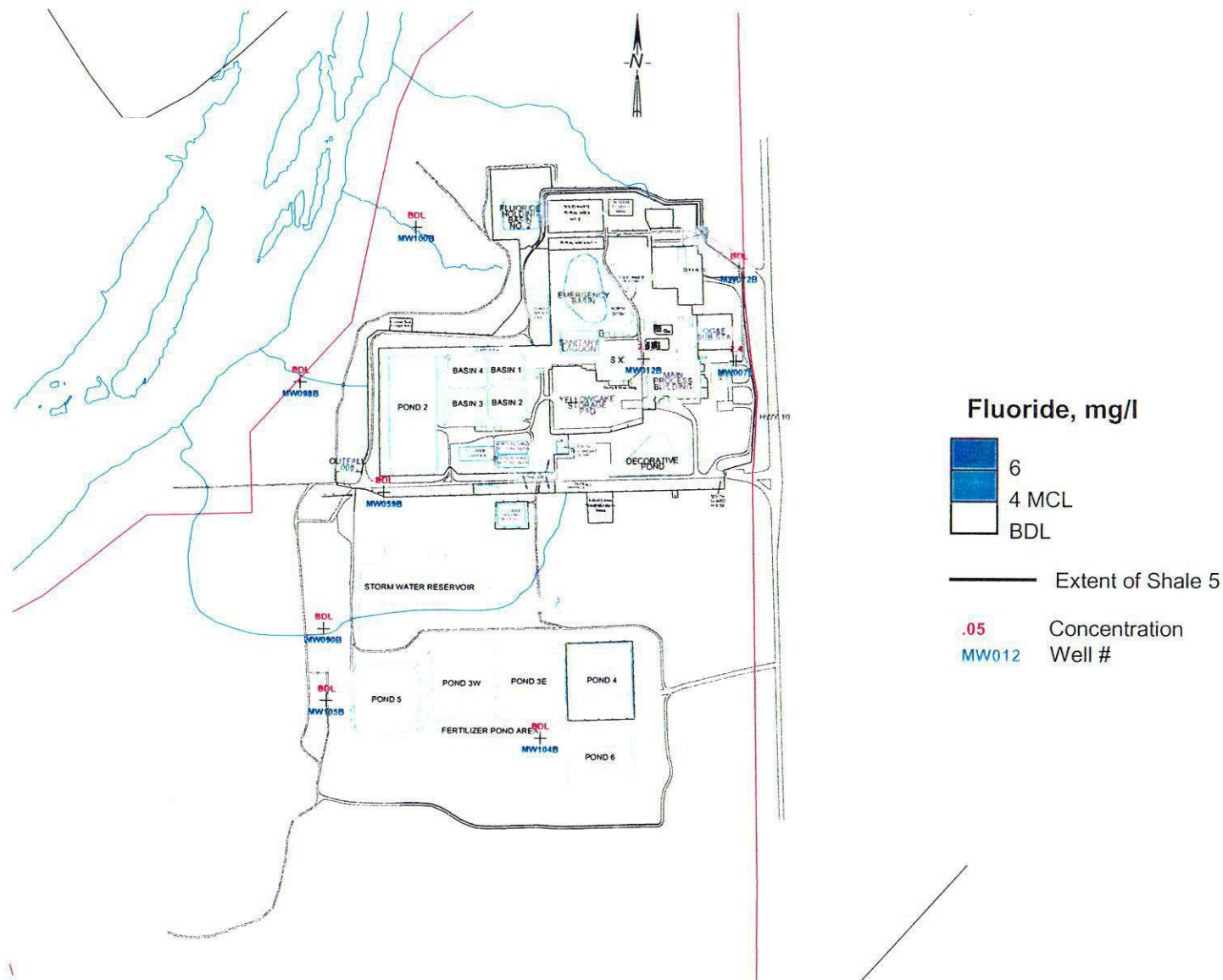
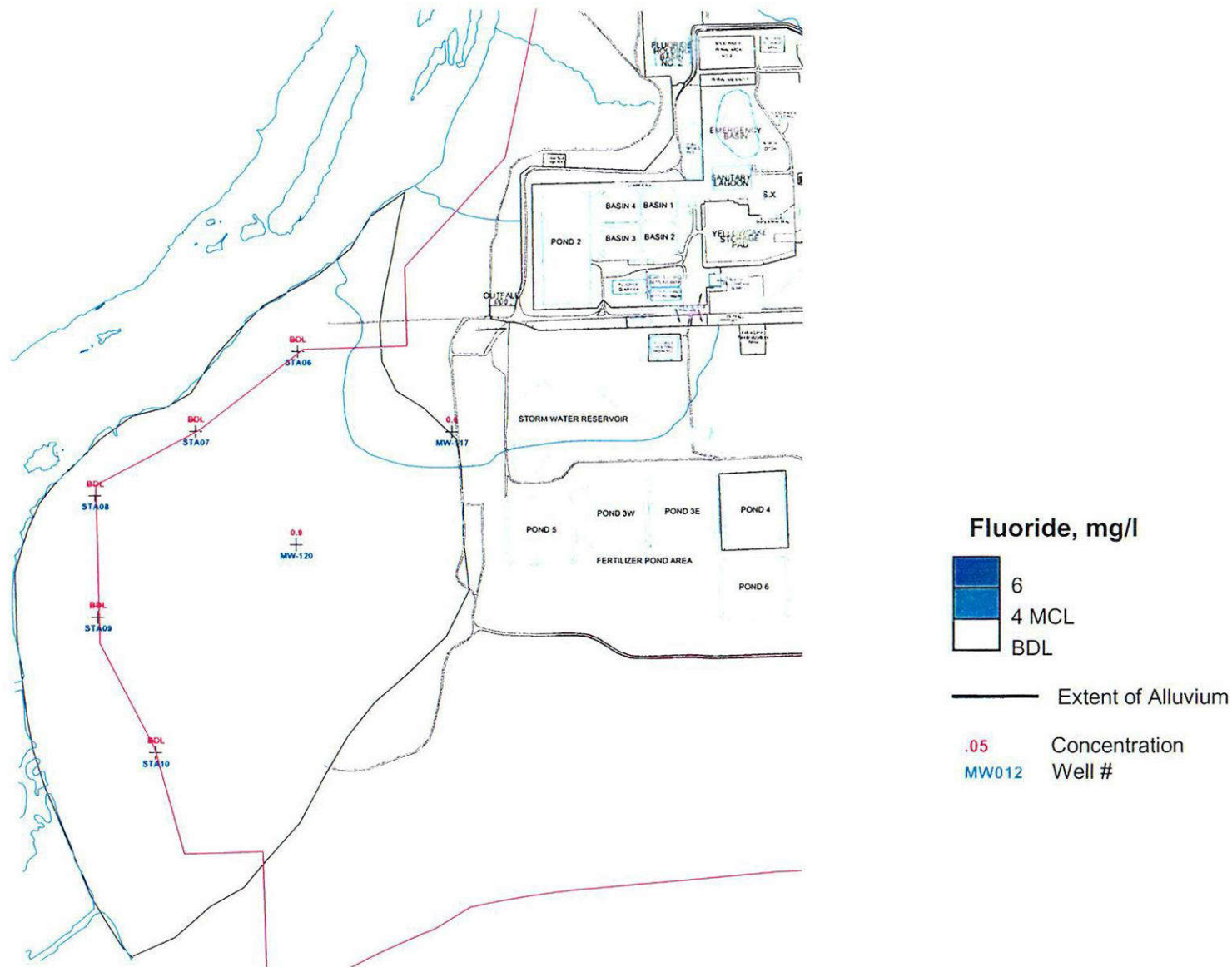


FIGURE 5-34
ISOPLETH OF FLUORIDE CONCENTRATIONS IN SHALE 5
2001 GROUNDWATER SAMPLING



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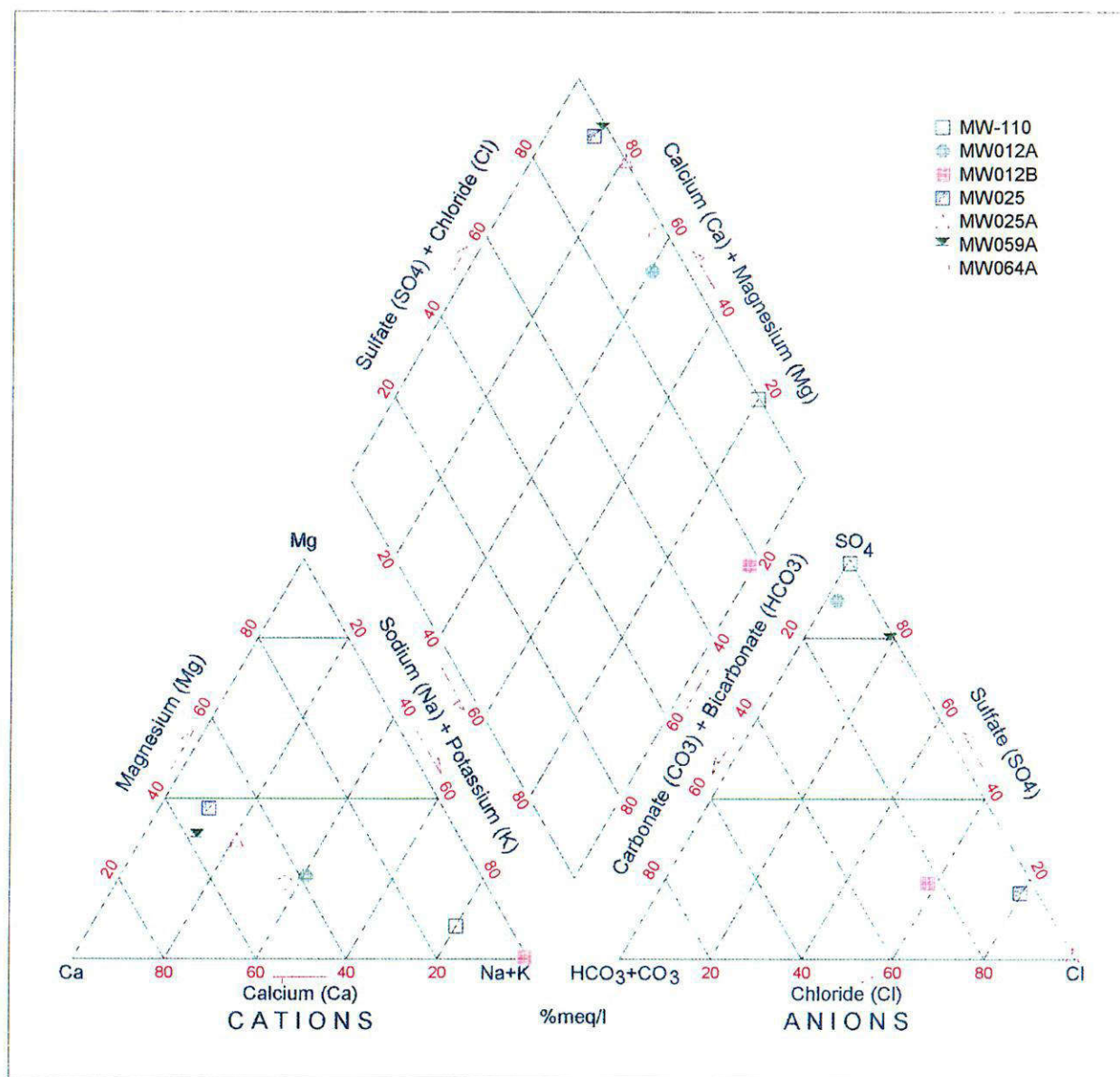
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FIGURE 5-35
ISOPLETH OF FLUORIDE CONCENTRATIONS IN ALLUVIUM
2001 GROUNDWATER SAMPLING

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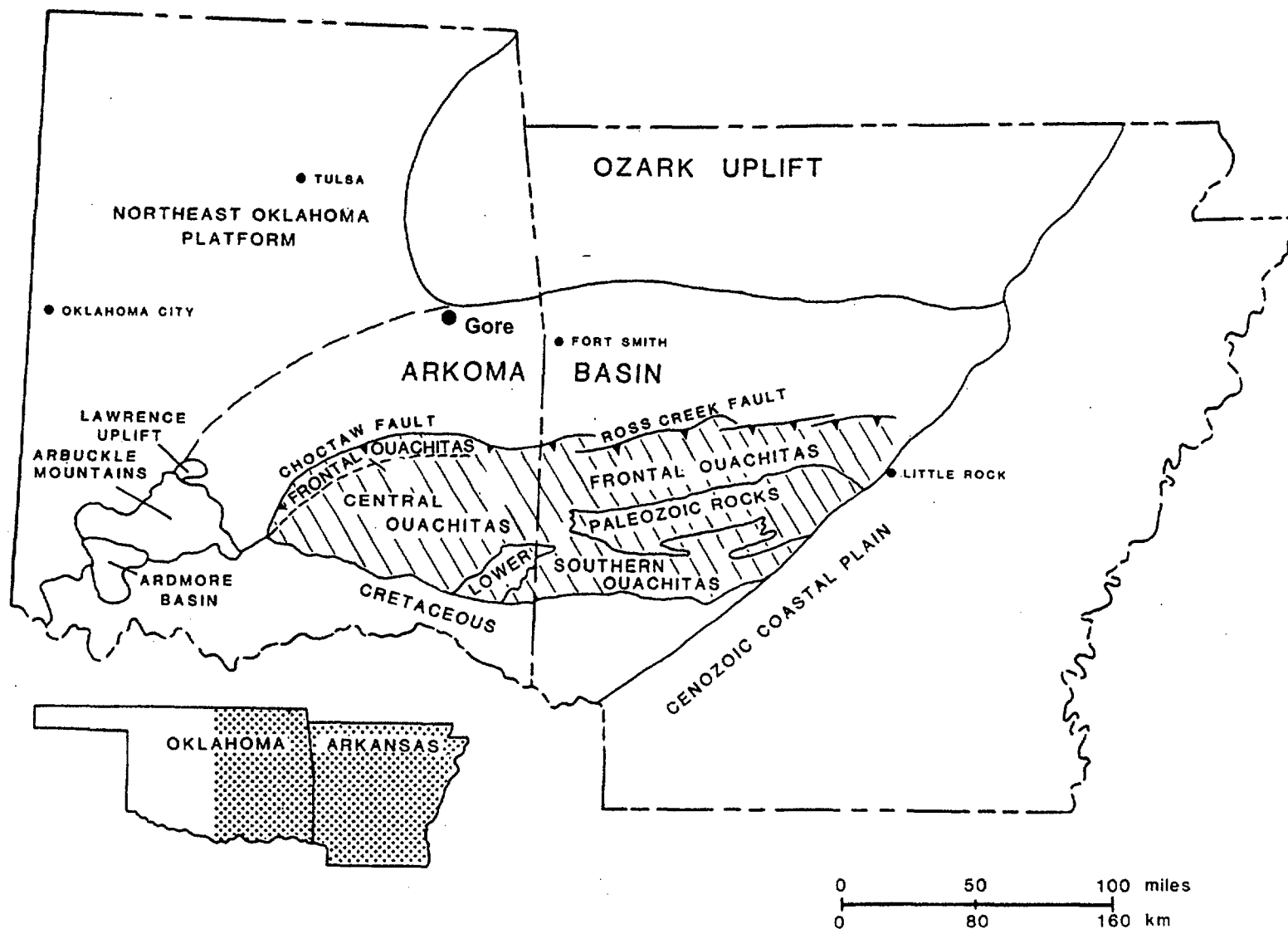
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FIGURE 5-36
TRILINEAR DIAGRAM FOR SELECTED WELL WATERS

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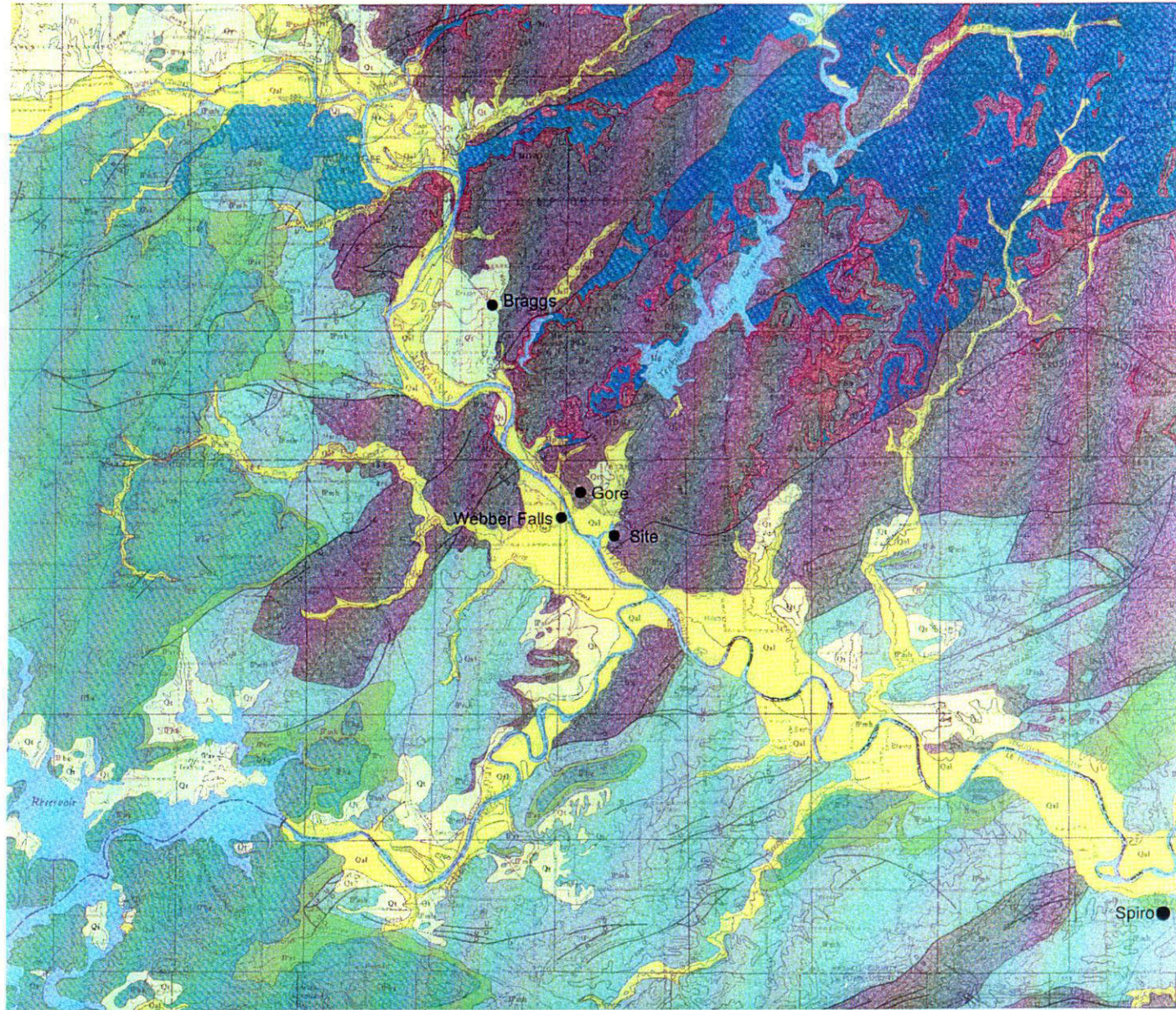
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After Sutherland, 1988

FIGURE 6-1
REGIONAL GEOLOGIC PROVINCES



After
Munchin,
1965

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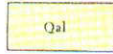


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FIGURE 6-2
REGIONAL GEOLOGIC MAP

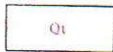
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Explanation



ALLUVIUM

Gravel, sand, silt, and clay. Yields large amounts of water of good quality along the Arkansas River and probably will yield moderate to large amounts along the Canadian River.



TERRACE DEPOSITS

Gravel, sand, silt, and clay. Yield moderate to large amounts of water of good quality locally along the Arkansas River; smaller amounts elsewhere.



BOGGY FORMATION

Shale, sandstone, and coal; includes Bluejacket Sandstone Member at base. Yields limited amounts of water of poor quality.



SAVANNA, MCALESTER, AND HARTSHORNE FORMATIONS

- IPsv** *Savanna Formation*, shale, sandstone, and coal. Yields limited amounts of water of poor quality.
- IPmh** *McAlester and Hartshorne Formations* (undifferentiated), shale, sandstone, and coal. Yield limited amounts of water of poor quality.
- IPsm** *Savanna and McAlester Formations* (undifferentiated; T. 15 N., Rs. 18, 19 E.), shale and minor sandstones. Yield limited amounts of water of poor quality.



ATOKA, BLOYD, AND HALE FORMATIONS

- IPu** Undifferentiated.
- IPa** *Atoka Formation*, shale and sandstone. Yields limited amounts of water of poor quality.
- IPbh** *Bloyd Formation*, shale and limestone; and *Hale Formation*, limestone and sandstone. Probably will yield only small amounts of water of fair to poor quality.



MISSISSIPPIAN ROCKS ABOVE CHATTANOOGA SHALE

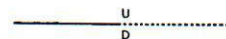
- Mu** Undifferentiated.
- Mp** *Pitkin Formation*, limestone; *Fayetteville Formation*, shale and limestone; *Hindsville Formation*, limestone and shale; and *Moorefield Formation*, limestone.
- Mkr** *Keokuk Formation*, chert; *Reeds Spring Formation*, chert and limestone; and *St. Joe "Group,"* limestone and marlstone.
- Yield small to moderate amounts of water of fair to good quality.



MISSISSIPPIAN, DEVONIAN, SILURIAN, AND ORDOVICIAN ROCKS, UNDIFFERENTIATED

- Mississippian and Devonian. *Chattanooga Shale*, shale.
- Devonian. *Sallisaw Formation*, limestone, sandstone, and chert; and *Frisco Formation*, limestone.
- Silurian. *Quarry Mountain Formation*, limestone; *Tenkiller Formation*, limestone; and *Blackgum Formation*, limestone and dolomite.
- Ordovician. *Sylvan Shale*, shale; *Fernvale Limestone*, limestone; *Fite Limestone*, limestone; *Tyner Formation*, shale, sandstone, dolomite, and limestone; *Burgen Sandstone*, sandstone and minor shales and limestones; and *Cotter Dolomite*, dolomite.
- Limestone, dolomite, and sandstone units may yield small to moderate amounts of water of fair to good quality; shale units probably will yield only limited amounts of water of poor to fair quality.

The stratigraphic nomenclature and age determinations used herein are those accepted by the Oklahoma Geological Survey and do not necessarily agree with those of the U. S. Geological Survey.



Fault

Dotted where concealed; U, upthrown side; D, downthrown side

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FIGURE 6-2a
EXPLANATION OF GEOLOGIC MAP

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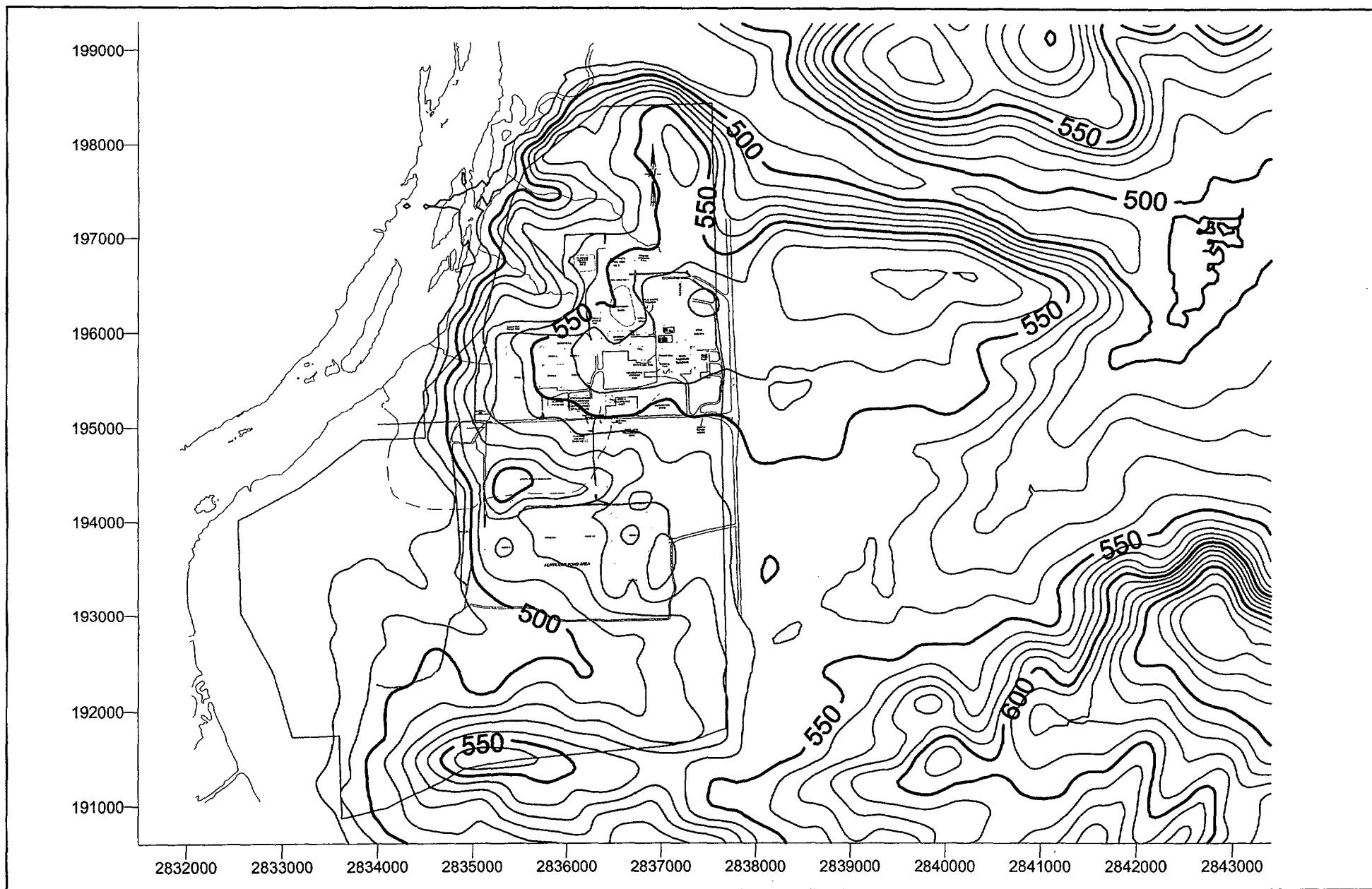
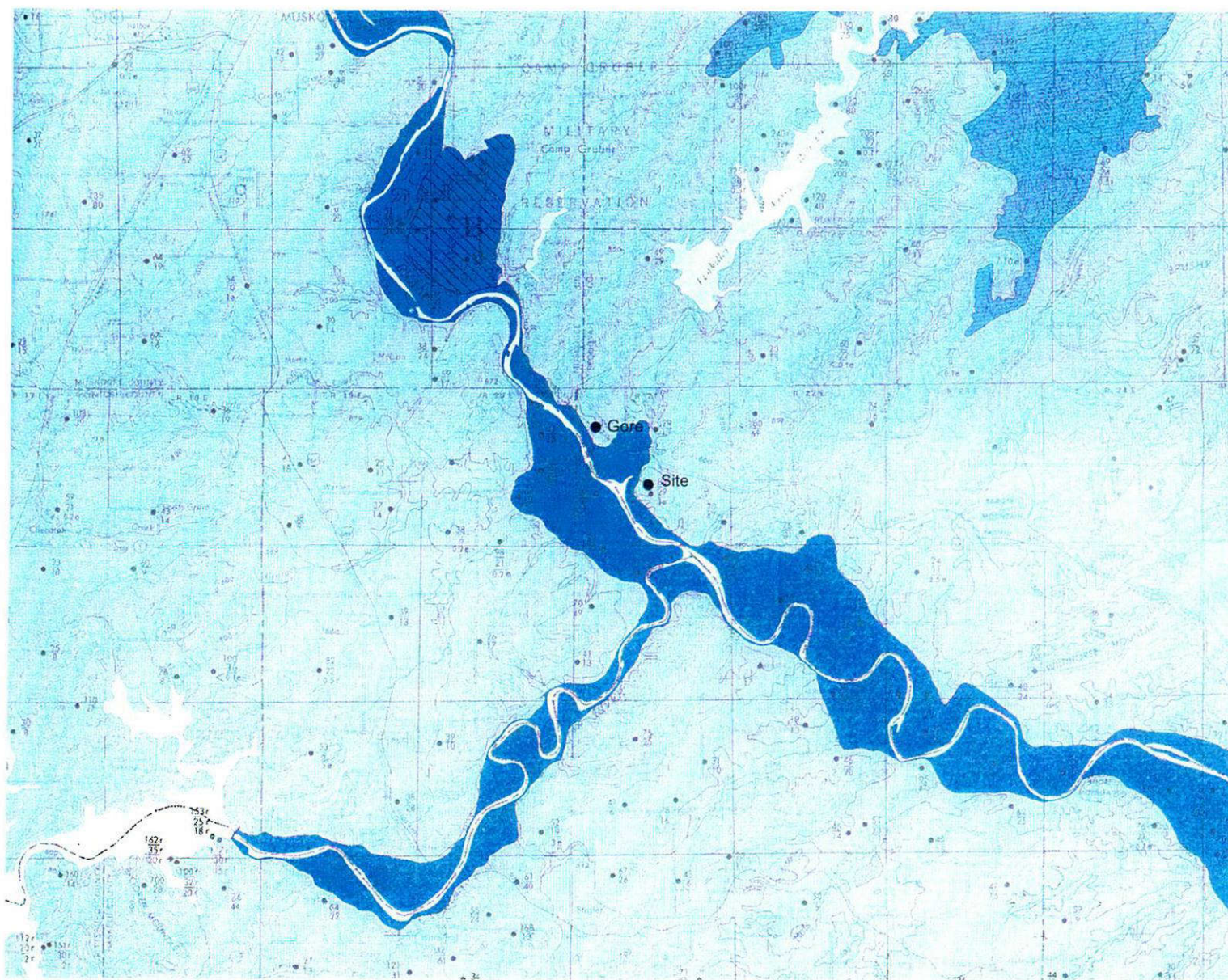


FIGURE 6-5
SITE TOPOGRAPHICAL SURFACE

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FIGURE 6-6
REGIONAL HYDROLOGICAL UNITS

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Explanation



Most favorable for ground-water supplies

This area includes alluvium along the Arkansas and Canadian Rivers and some terrace deposits along the Arkansas River. Wells in alluvium along the Arkansas River are reported to yield up to 900 gpm (gallons per minute); larger yields might be obtained locally. Alluvium along the Canadian River is untested, but yields comparable to those from alluvium of the Arkansas River probably could be obtained. Area A, shown by diagonal lines in Tulsa and Wagoner Counties, is underlain by terrace deposits, up to 60 feet thick, that are reported to yield as much as 125 gpm locally. Area B, shown by diagonal lines near Braggs, is also underlain by terrace deposits, up to 90 feet thick, that may yield up to 100 gpm.



Moderately favorable for ground-water supplies

This area is underlain by the Keokuk and Reeds Spring Formations and, in T. 13 N., R. 23 E., by rocks of pre-Mississippian age. Wells in the Keokuk and Reeds Spring Formations are reported to yield as much as 20 gpm and, locally, more. A few springs yield several hundred gallons per minute. Some of the limestones and sandstones, particularly the Burgen Sandstone in T. 13 N., R. 23 E., and in the vicinity of Qualls, are reported to yield up to 20 gpm.



Least favorable for ground-water supplies

The area is underlain by shale, siltstone, and sandstone of Pennsylvanian age and by terrace deposits mainly along the shores of Eufaula Reservoir. Most wells in the shale, siltstone, and sandstone yield only a fraction of a gallon per minute to a few gallons per minute. A few wells are reported to yield as much as 20 gpm. In local areas, terrace deposits along Eufaula Reservoir may yield 10 gpm or possibly more.

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Well

Upper number is depth of the well in feet; middle number is depth to water in feet below land surface in 1966 and 1967; lower number is yield of the well in gallons per minute. * = estimated value, r = reported value, f = flowing well, + = height of water level above ground level, u = unknown.

3*

Spring

Number beside spring symbol is yield in gallons per minute. * = estimated yield. Yield data obtained in 1966.

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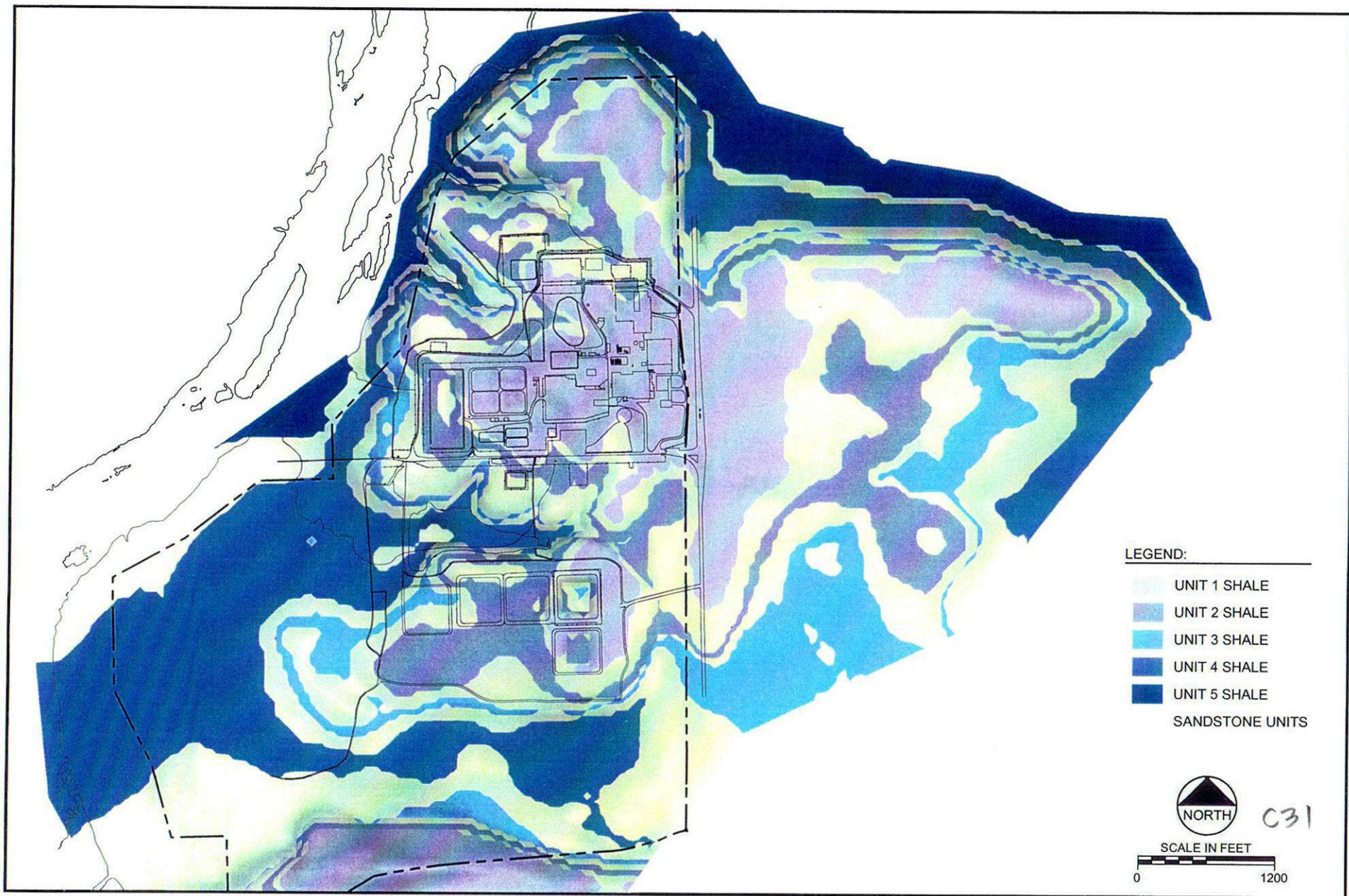
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FIGURE 6-6a
EXPLANATION OF REGIONAL
HYDROLOGICAL UNITS

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FIGURE 7-1
HYDROSTRATIGRAPHIC MODEL
BEDROCK GEOLOGY MAP

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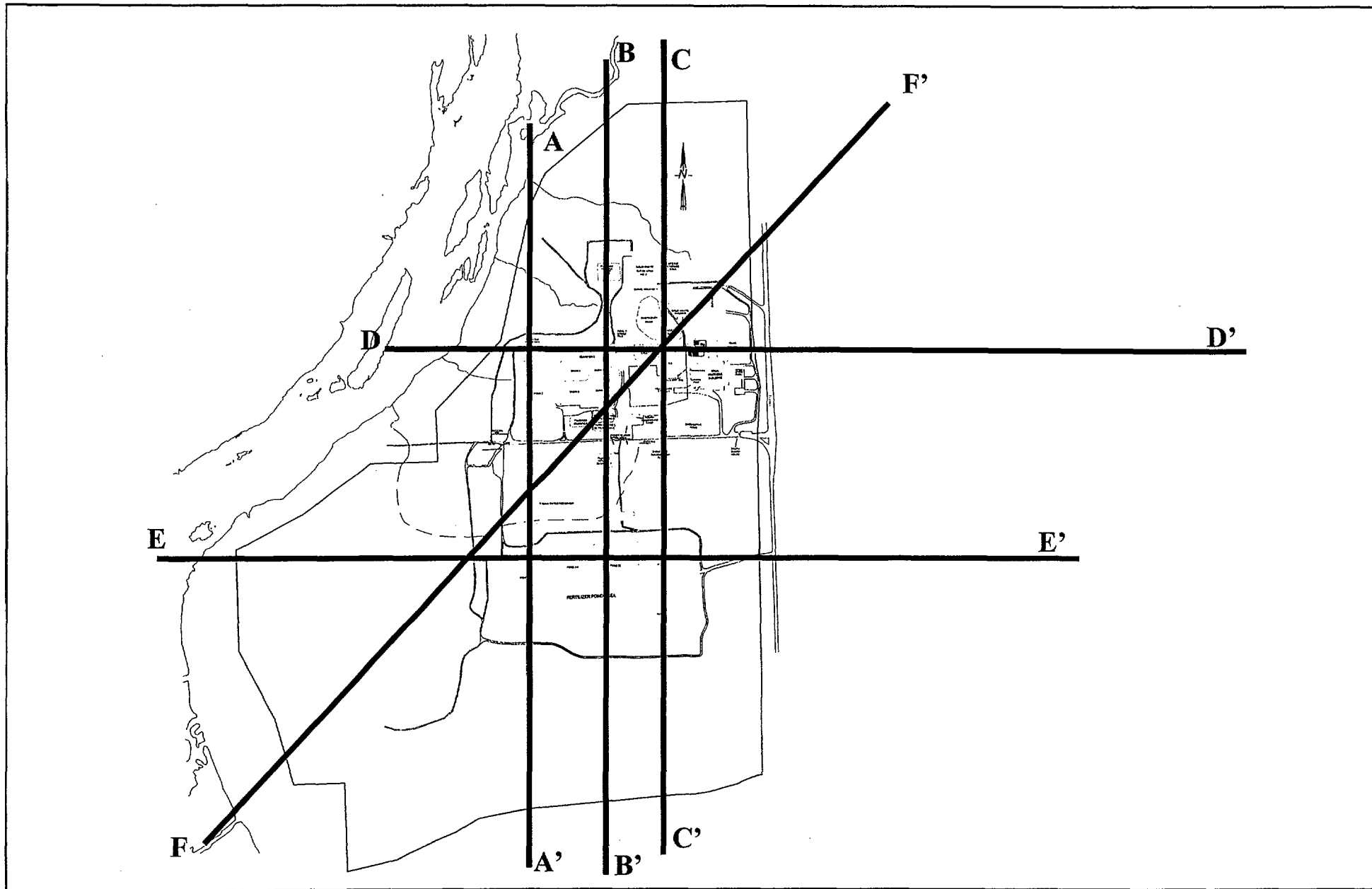
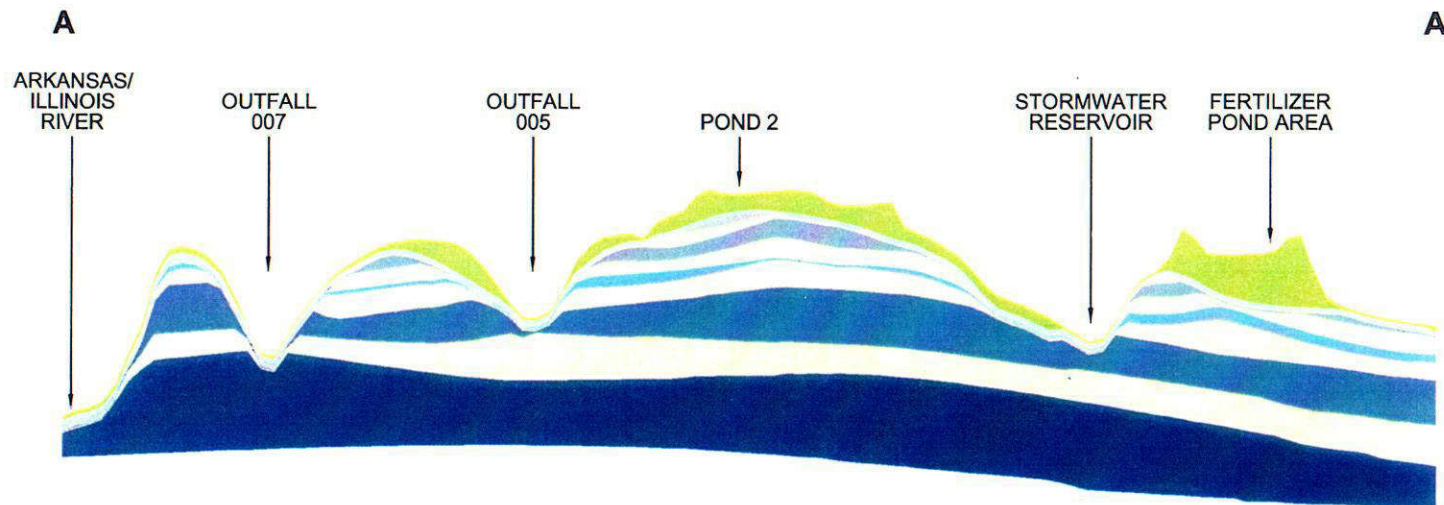


FIGURE 7-2
GEOLOGIC CROSS-SECTION LOCATIONS

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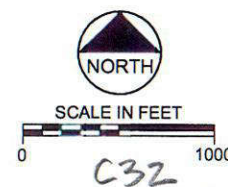
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LEGEND:

- ALLUVIUM AND COLLUVIUM TERRACE DEPOSIT
- UNIT 1 SHALE
- UNIT 2 SHALE
- UNIT 3 SHALE
- UNIT 4 SHALE
- UNIT 5 SHALE
- SANDSTONE UNITS

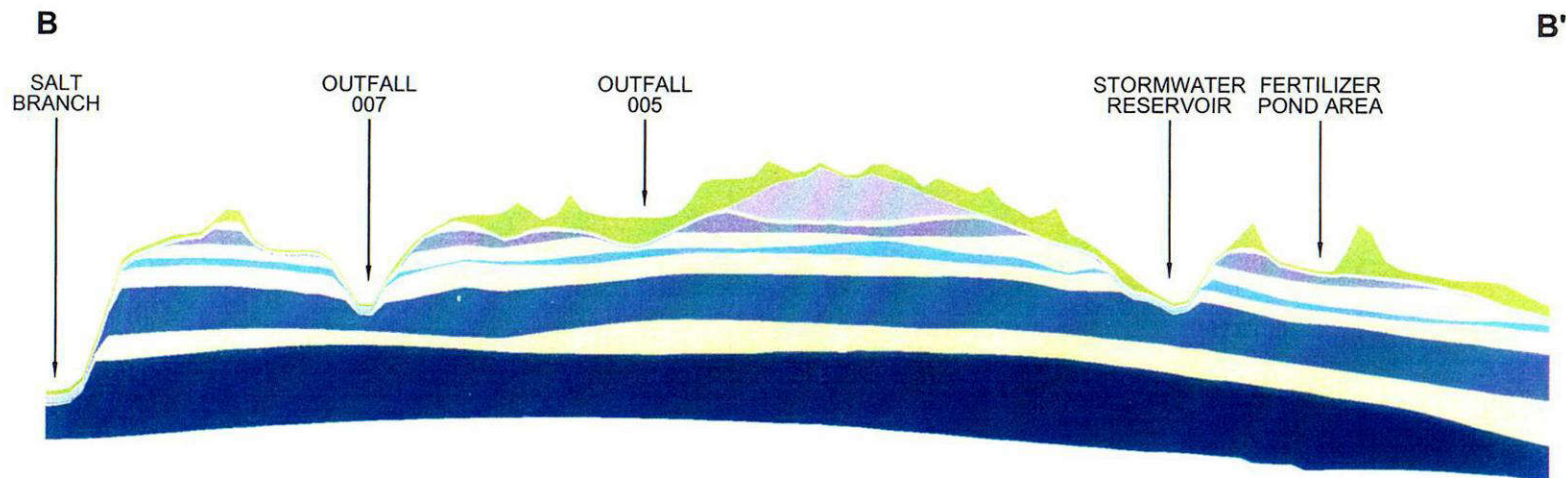
VERTICAL EXAGGERATION = 10x



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FIGURE 7-3
LAYER 1
HYDROSTRATIGRAPHIC MODEL CROSS SECTION A-A'

Date:	OCTOBER 2002
Project:	100734\REVISED-20"
File:	SECTIONS.dwg



LEGEND:

- ALLUVIUM AND COLLUVIUM TERRACE DEPOSIT
- UNIT 1 SHALE
- UNIT 2 SHALE
- UNIT 3 SHALE
- UNIT 4 SHALE
- UNIT 5 SHALE
- SANDSTONE UNITS

VERTICAL EXAGGERATION = 10x

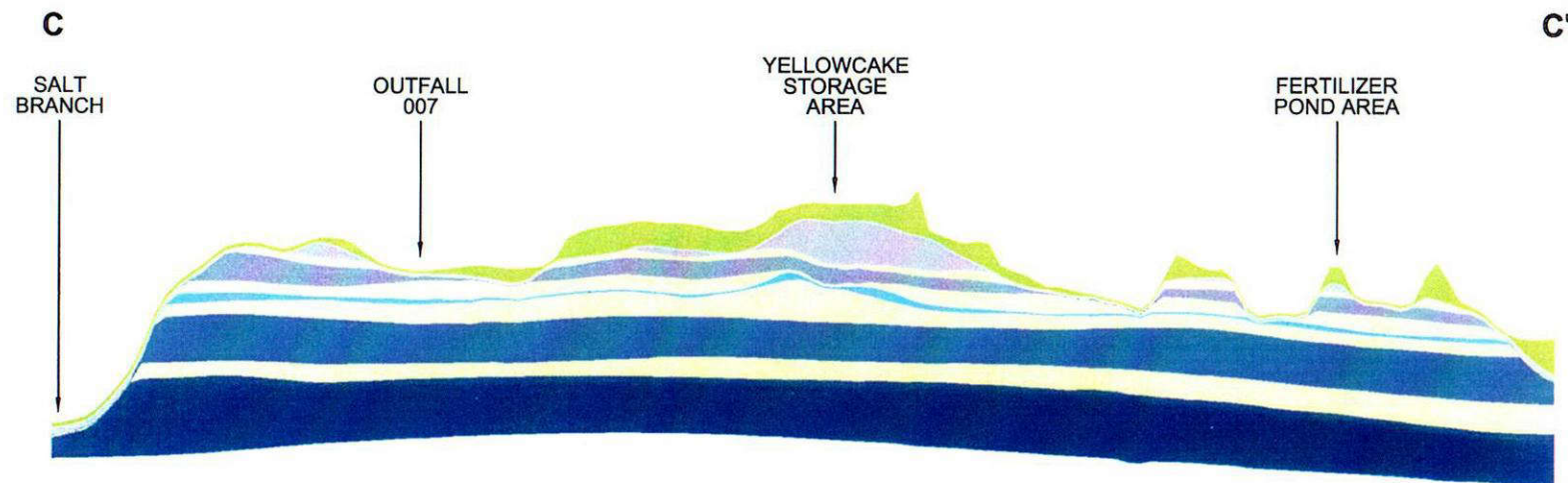


FIGURE 7-4
LAYER 2
HYDROSTRATIGRAPHIC MODEL CROSS SECTION B-B'

Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	SECTIONS.dwg



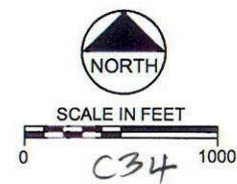
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LEGEND:

- ALLUVIUM AND COLLUVIUM TERRACE DEPOSIT
- UNIT 1 SHALE
- UNIT 2 SHALE
- UNIT 3 SHALE
- UNIT 4 SHALE
- UNIT 5 SHALE
- SANDSTONE UNITS

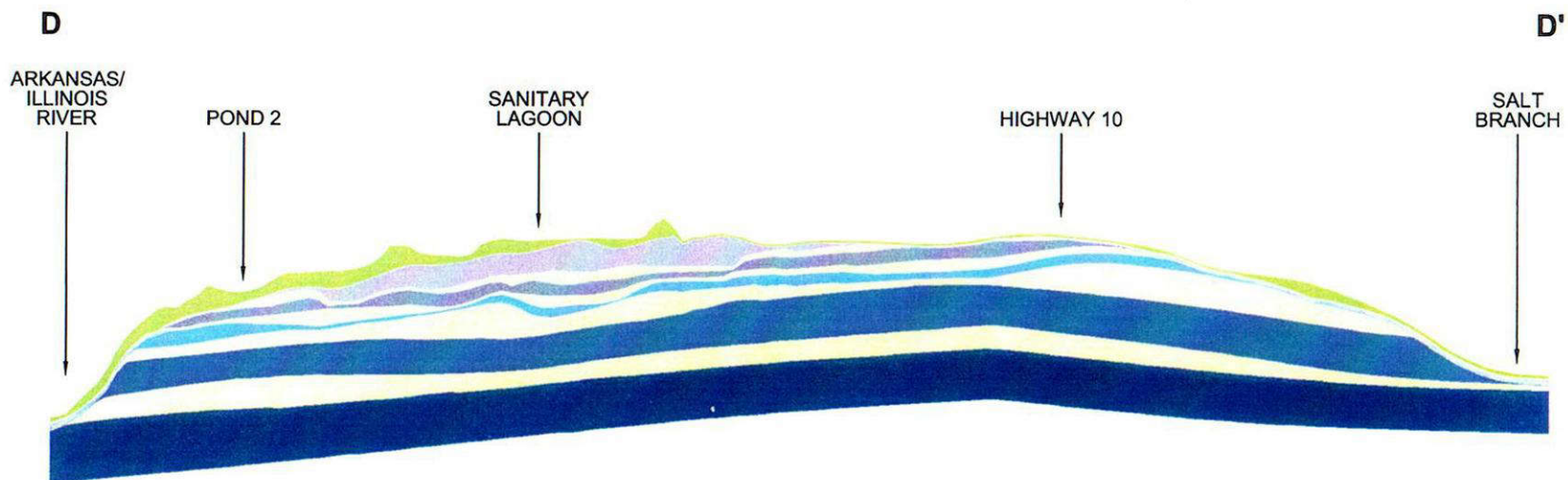
VERTICAL EXAGGERATION = 10x



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FIGURE 7-5
LAYER 3
HYDROSTRATIGRAPHIC MODEL CROSS SECTION C-C'

Date:	OCTOBER 2002
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File:	SECTIONS.dwg



LEGEND:

- ALLUVIUM AND COLLUVIUM TERRACE DEPOSIT
- UNIT 1 SHALE
- UNIT 2 SHALE
- UNIT 3 SHALE
- UNIT 4 SHALE
- UNIT 5 SHALE
- SANDSTONE UNITS

VERTICAL EXAGGERATION = 10x

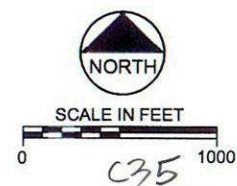


FIGURE 7-6
LAYER 4
HYDROSTRATIGRAPHIC MODEL CROSS SECTION D-D'

Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	SECTIONS.dwg

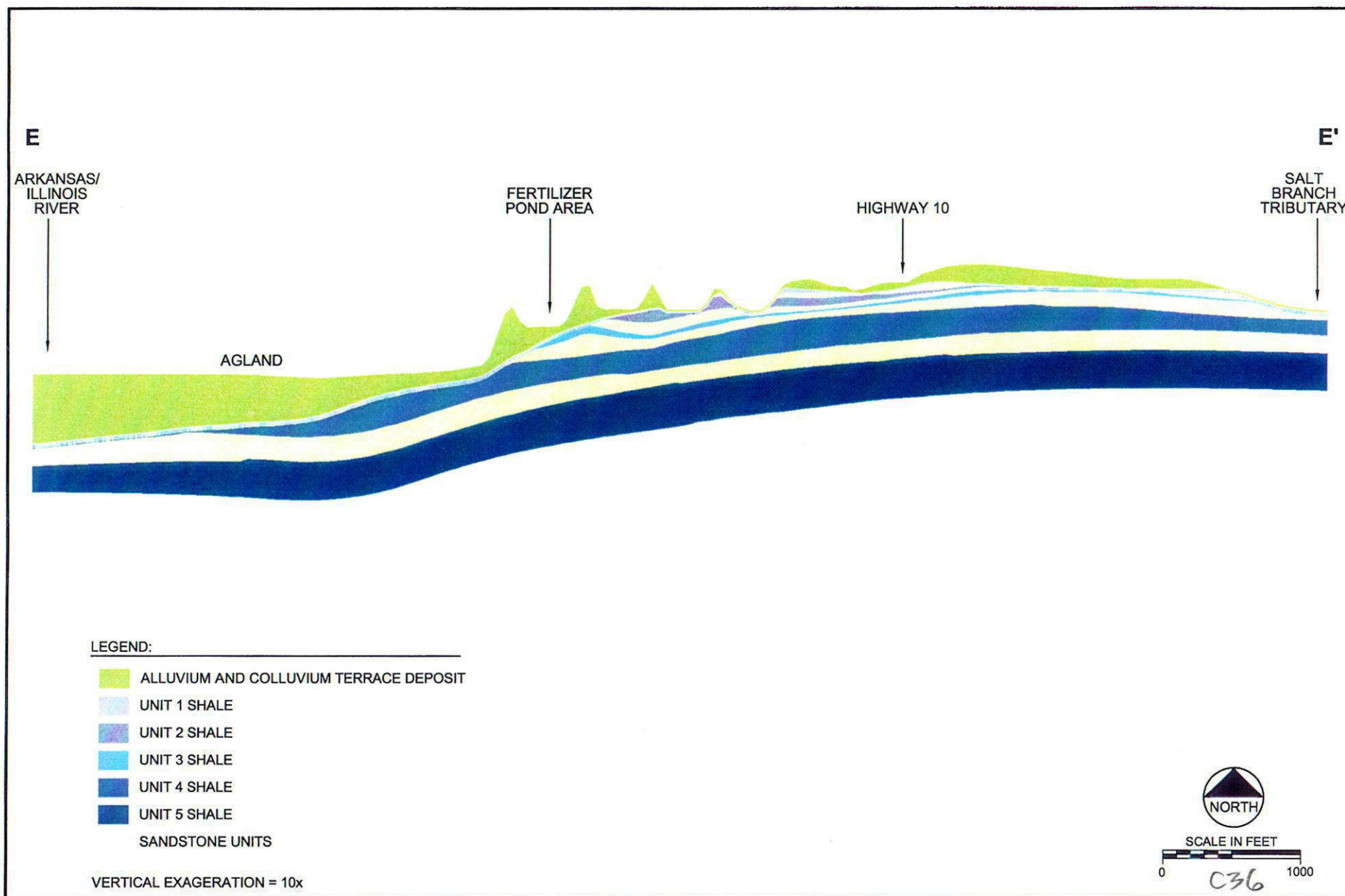
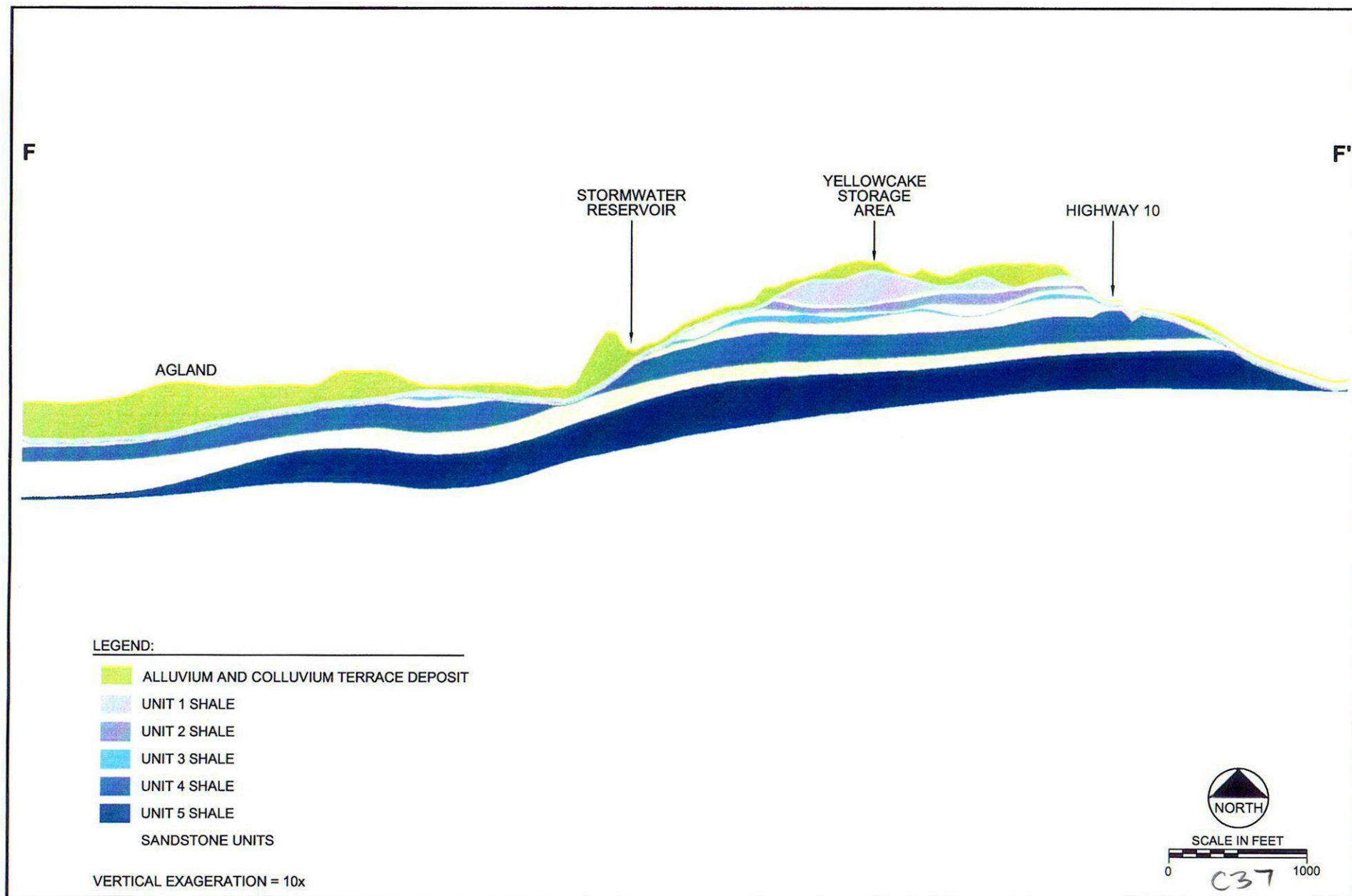


FIGURE 7-7
LAYER 5
HYDROSTRATIGRAPHIC MODEL CROSS SECTION E-E'

Date:	OCTOBER 2002
Project:	100734\REVISED-20"
File:	SECTIONS.dwg



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FIGURE 7-8
LAYER 6
HYDROSTRATIGRAPHIC MODEL CROSS SECTION F-F'

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File:	SECTIONS.dwg

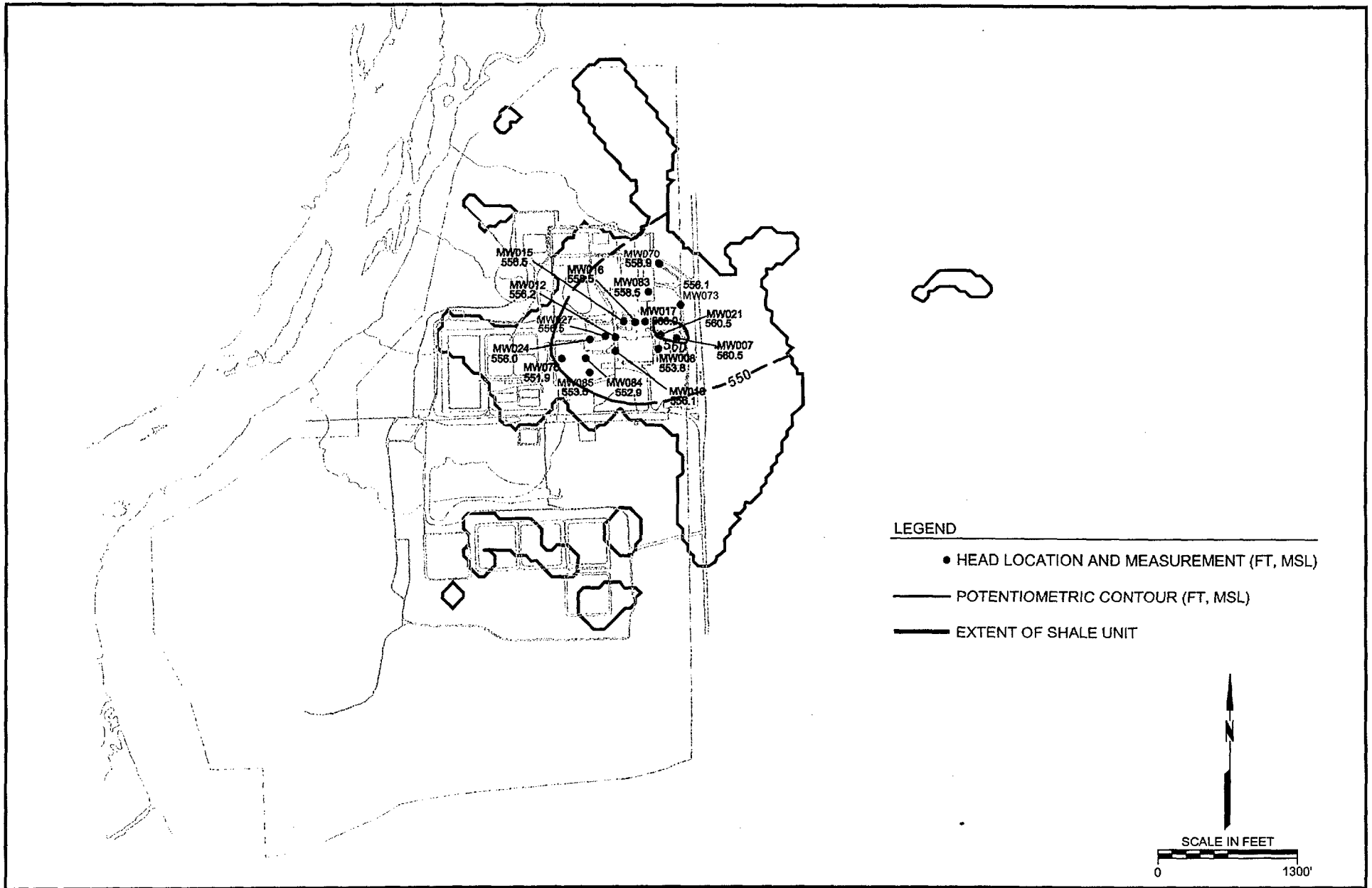


FIGURE 7-9
POTENTIOMETRIC SURFACE SHALE 1
JUNE 2001

Date:	OCTOBER 2002
Project:	100734
File:	SHALE.dwg



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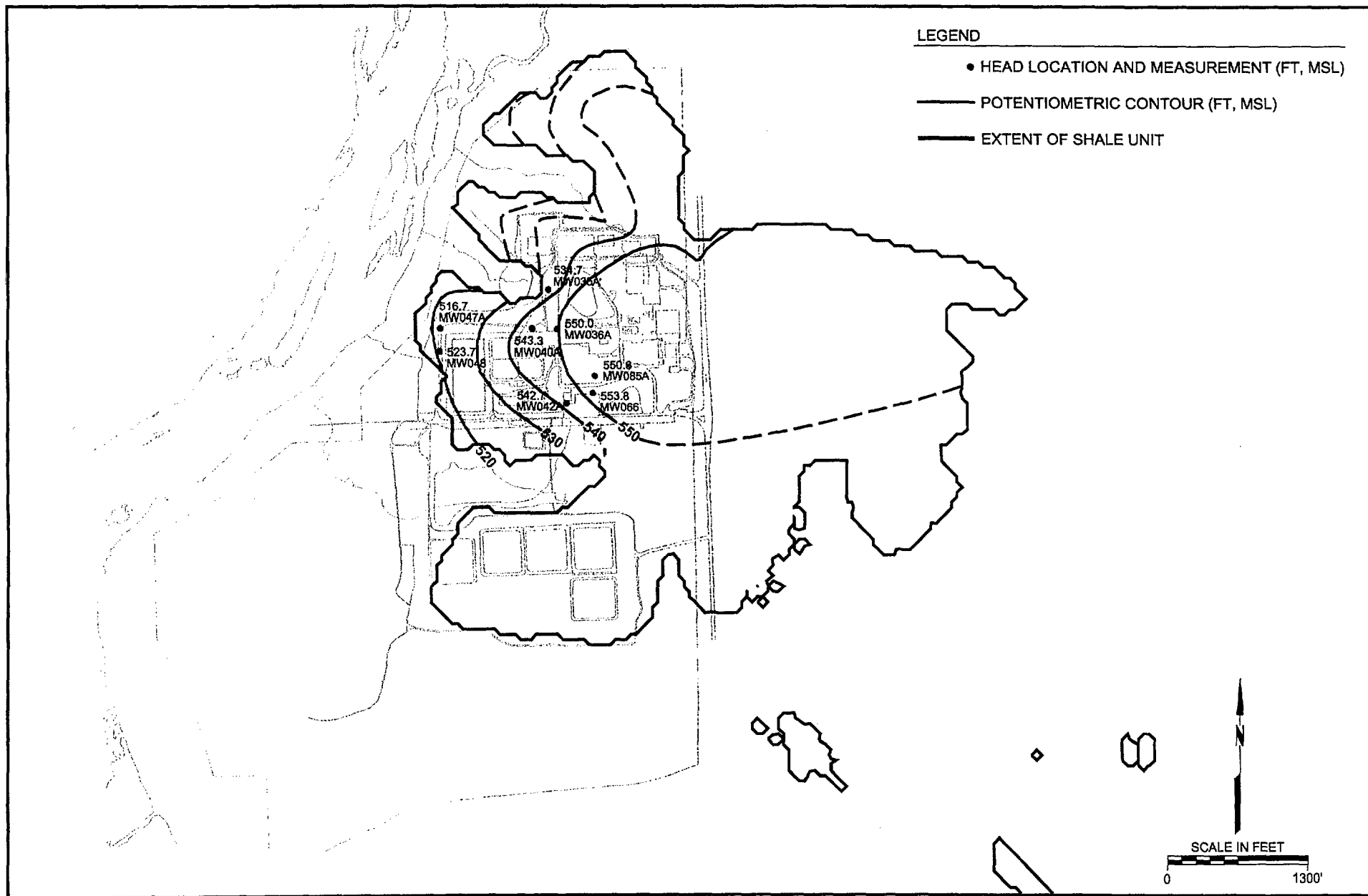


FIGURE 7-10
POTENTIOMETRIC SURFACE SHALE 2
JUNE 2001



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Date: OCTOBER 2002

Project: 100734

File: SHALE.dwg

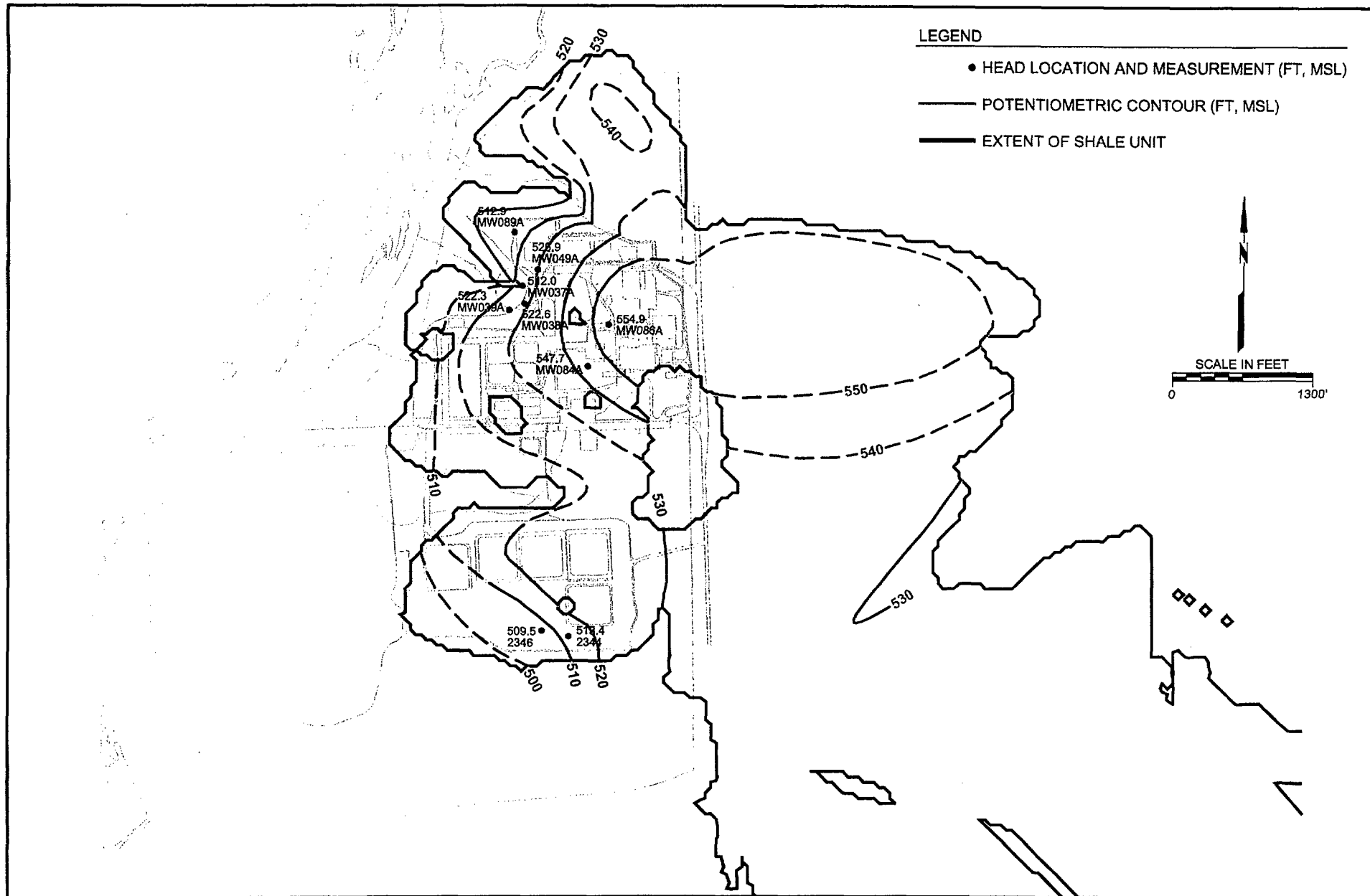


FIGURE 7-11
POTENTIOMETRIC SURFACE SHALE 3
JUNE 2001

Date:	OCTOBER 2002
Project:	100734
File:	SHALE.dwg

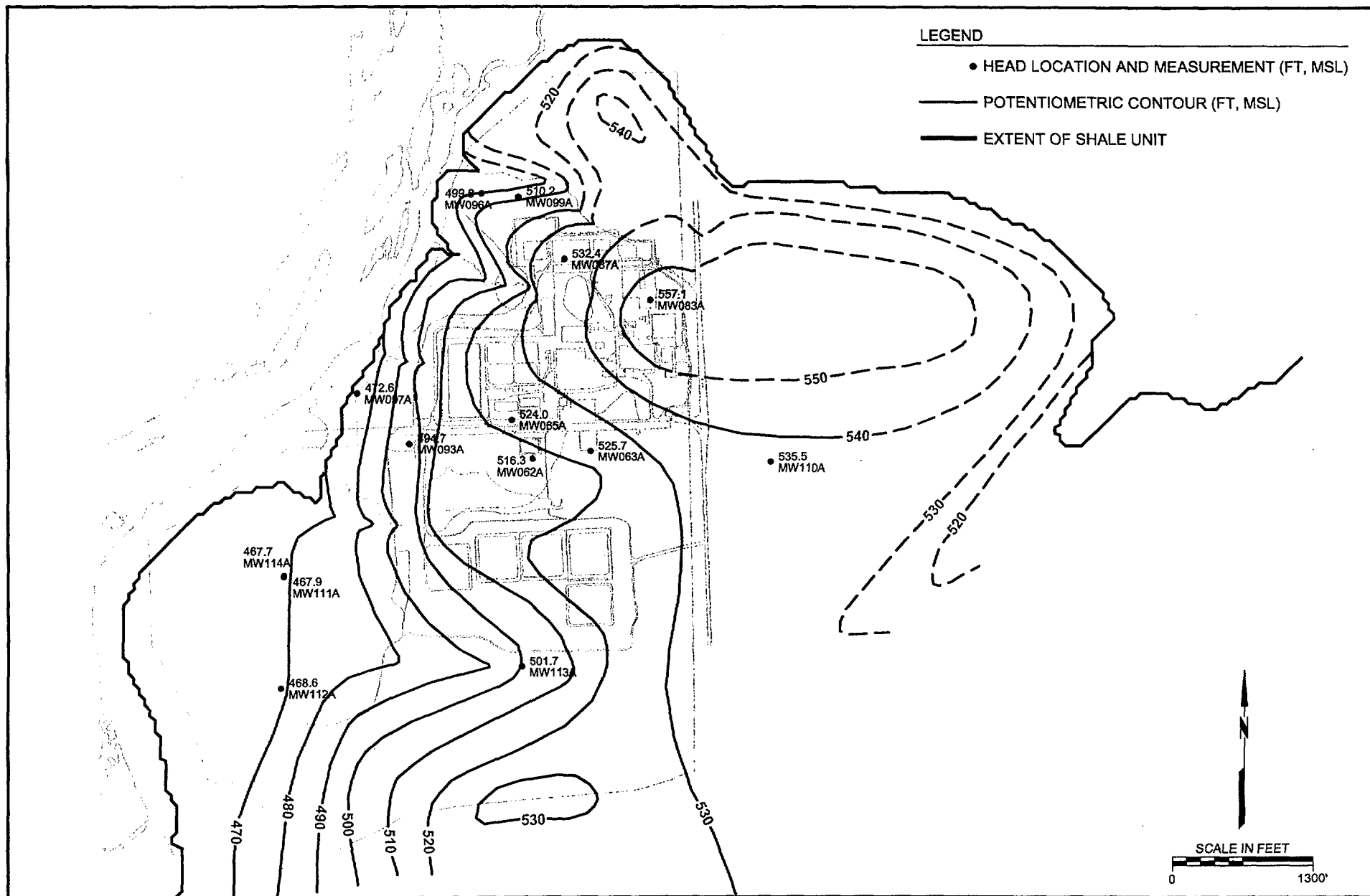


FIGURE 7-12
POTENTIOMETRIC SURFACE SHALE 4
JUNE 2001

Date:	OCTOBER 2002
Project:	100734
File:	SHALE.dwg

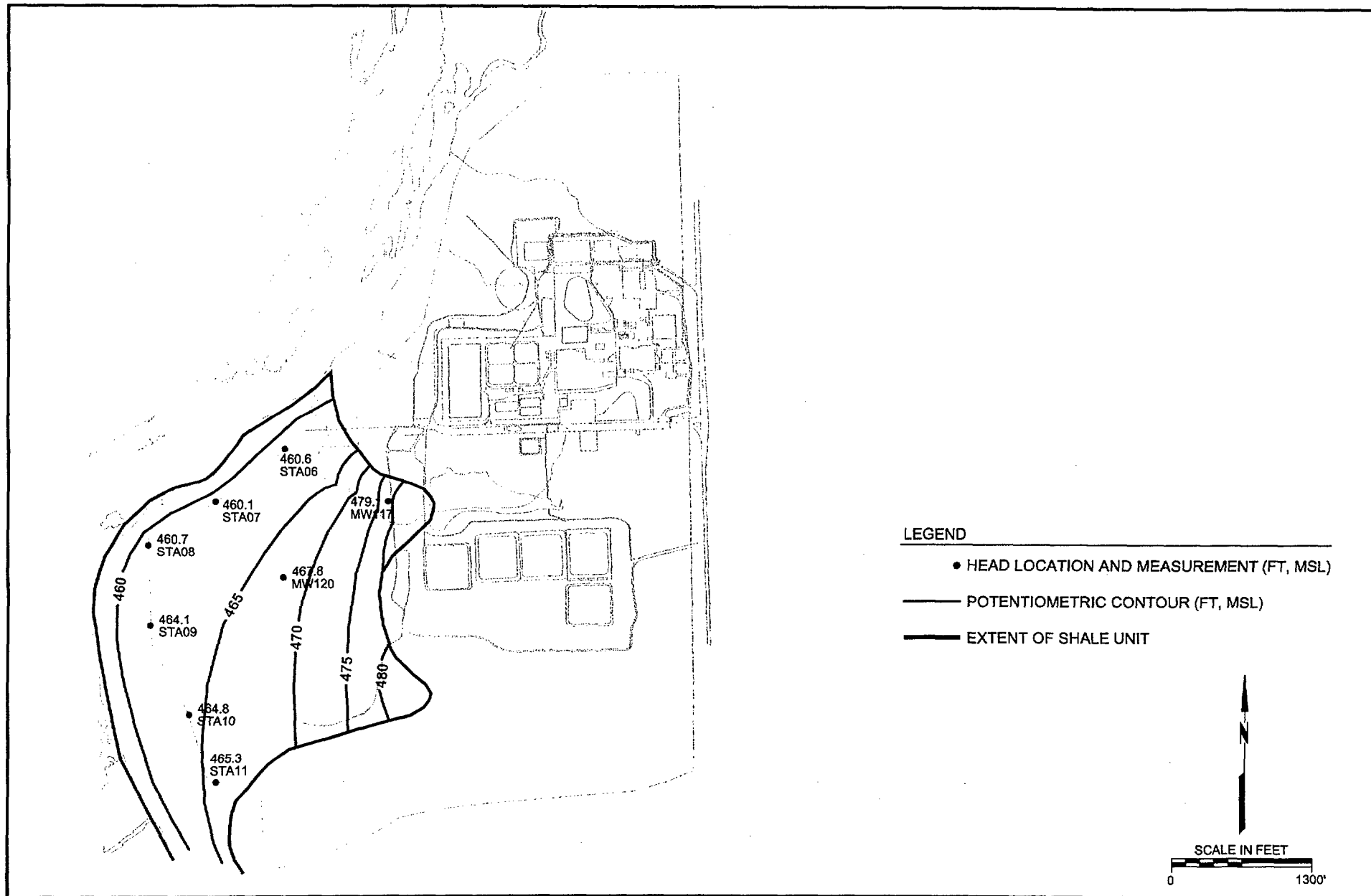
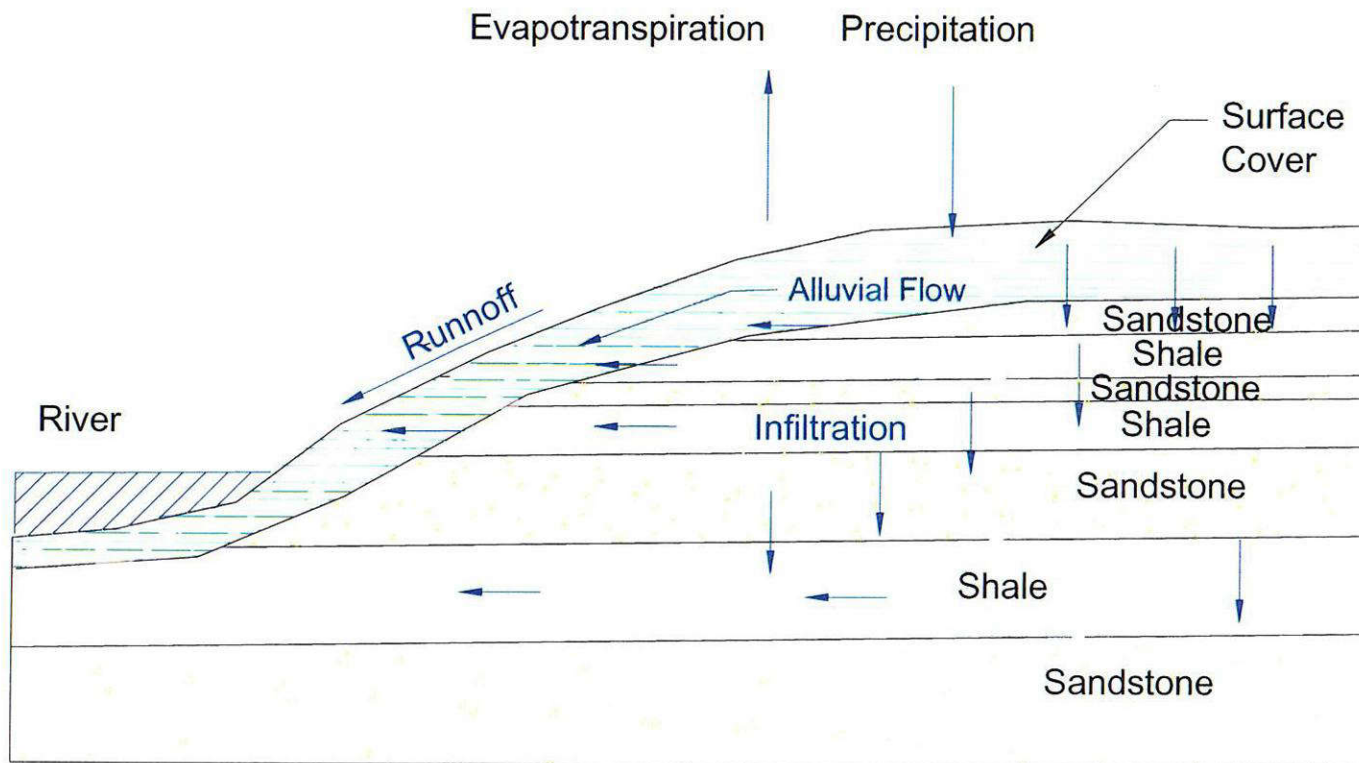
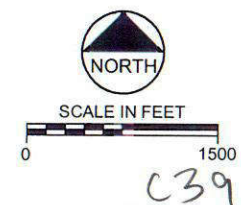


FIGURE 7-13
POTENTIOMETRIC SURFACE ALLUVIUM
5 JUNE 2001



C38

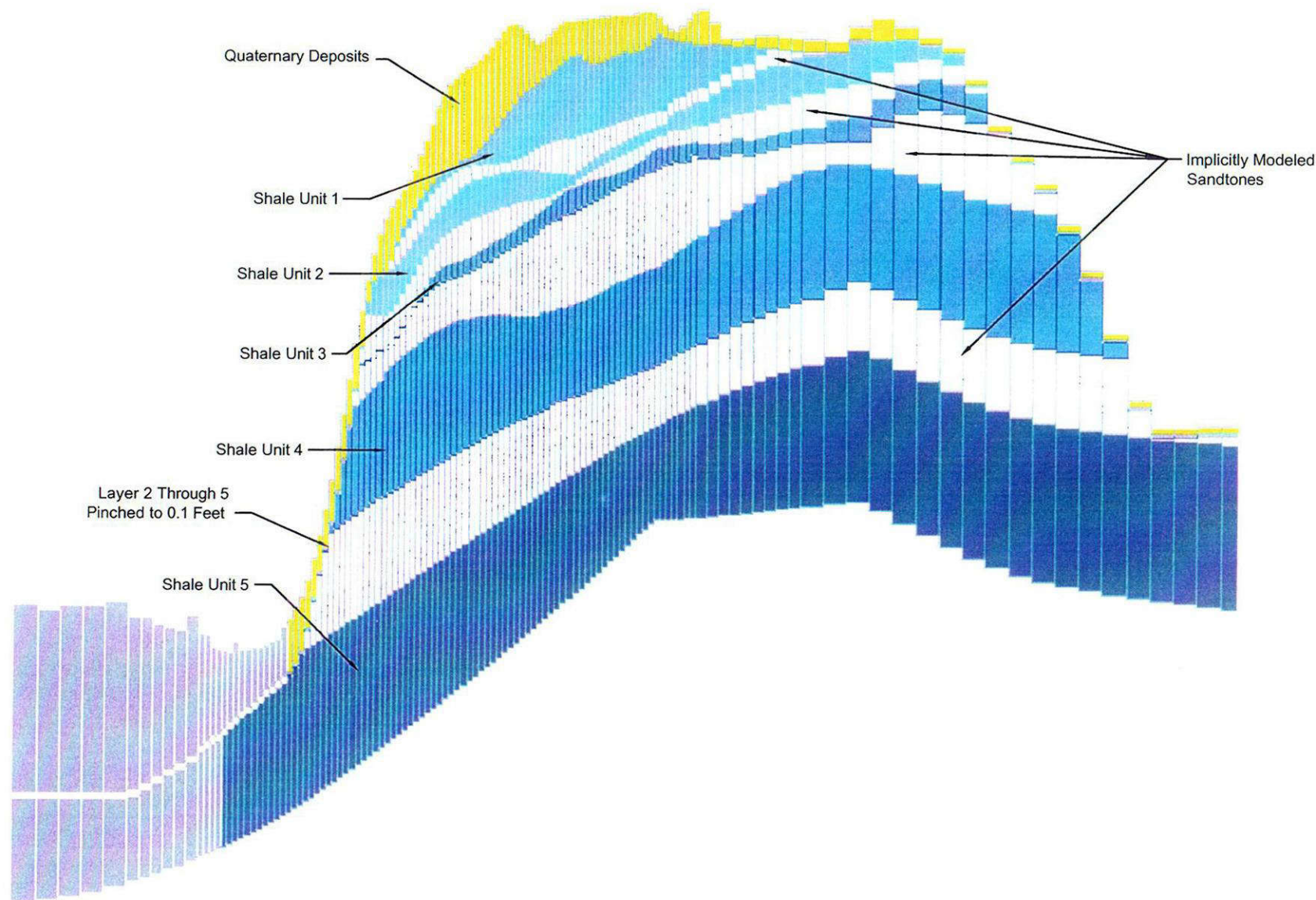
FIGURE 7-14
CONCEPTUALIZED HYDROGEOLOGY



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FIGURE 8-1
MODEL DOMAIN

Date:	OCTOBER 2002
Project:	100734
File:	FIG 8-1.DWG



C40



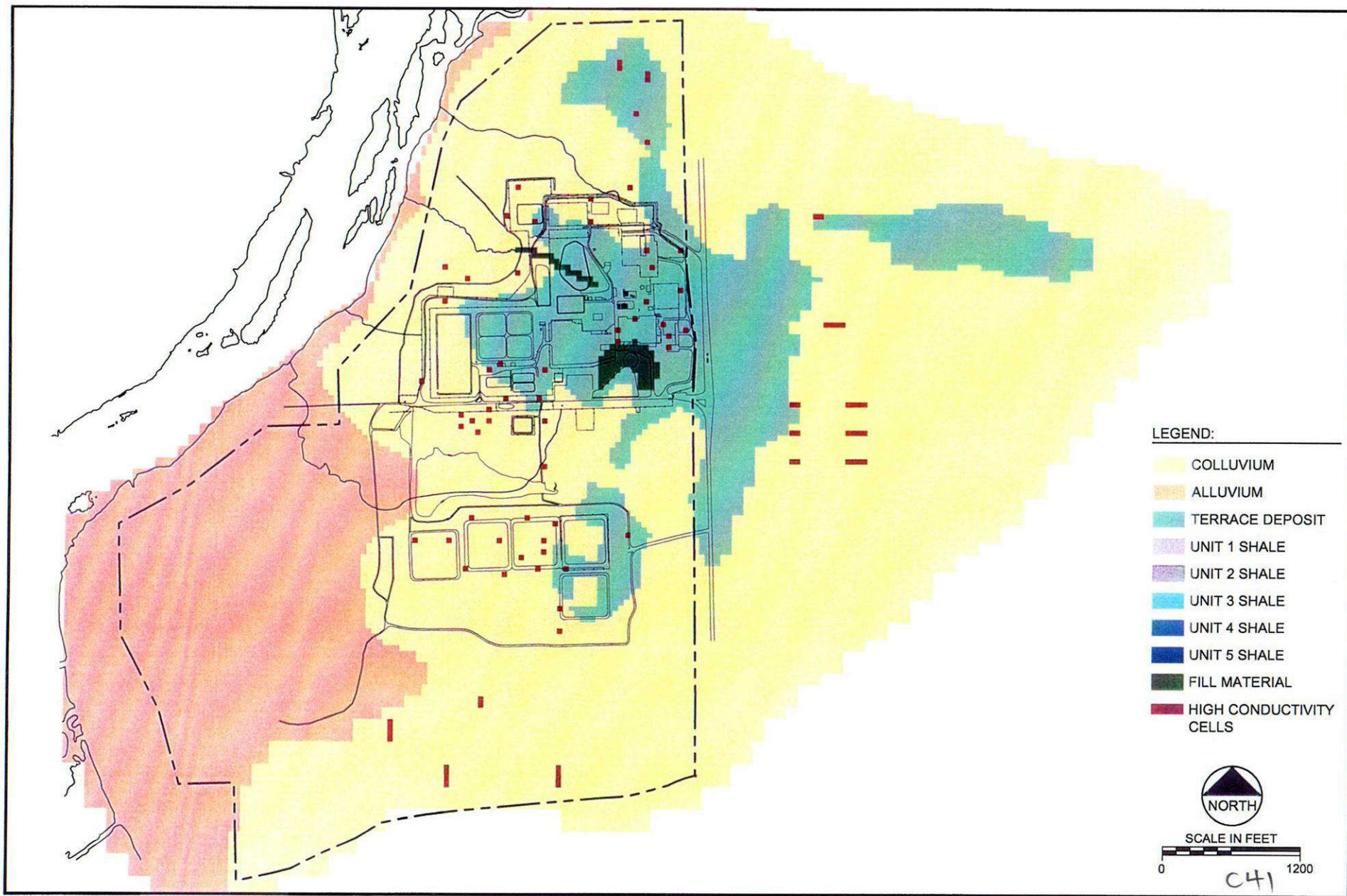
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FIGURE 8-2
MODEL GRID CROSS-SECTION

Date: OCTOBER 2002

Project: 100734

File: XSEC.DWG



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FIGURE 8-3
LAYER 1
HYDROLOGIC UNITS

Date: OCTOBER 2002
Project: 100734\REVISED-20*\n
File: HYDRO-UNITS.dwg

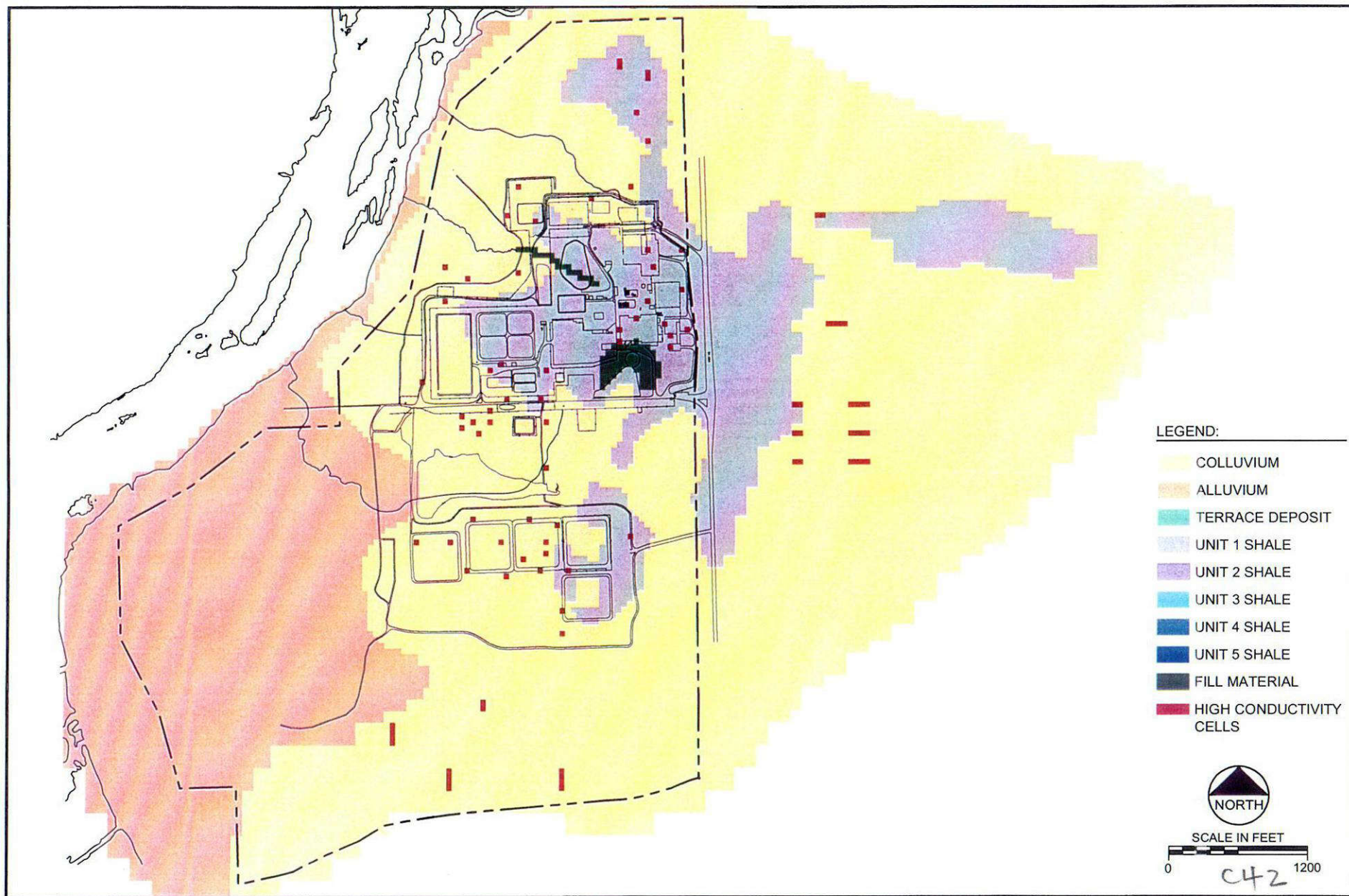
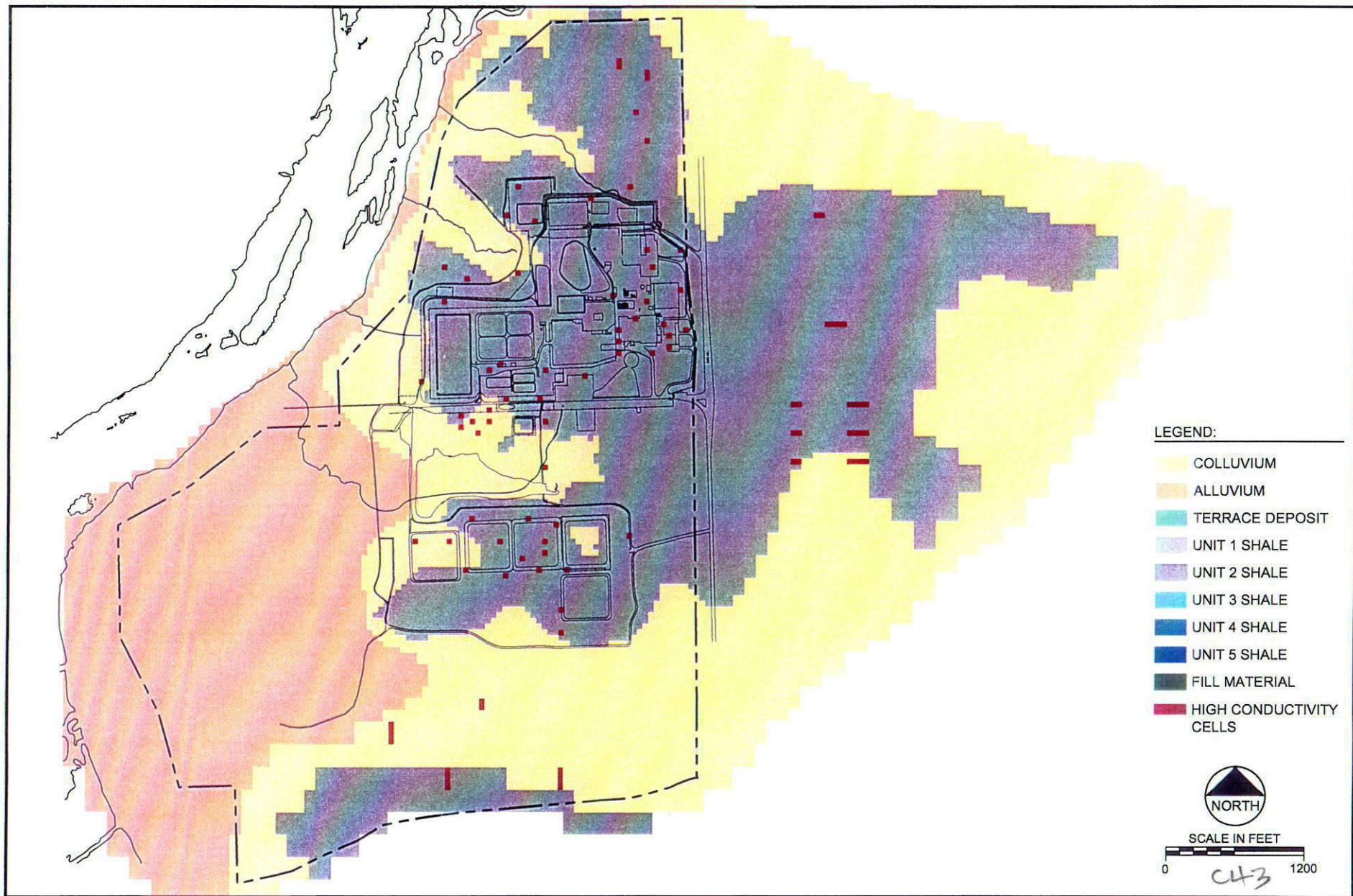


FIGURE 8-4
LAYER 2
HYDROLOGIC UNITS



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Project: 100734\REVISED-20*1
File: HYDRO-UNITS.dwg



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FIGURE 8-5
LAYER 3
HYDROLOGIC UNITS

Date: OCTOBER 2002
Project: 100734\REVISED-20*\nFile: HYDRO-UNITS.dwg

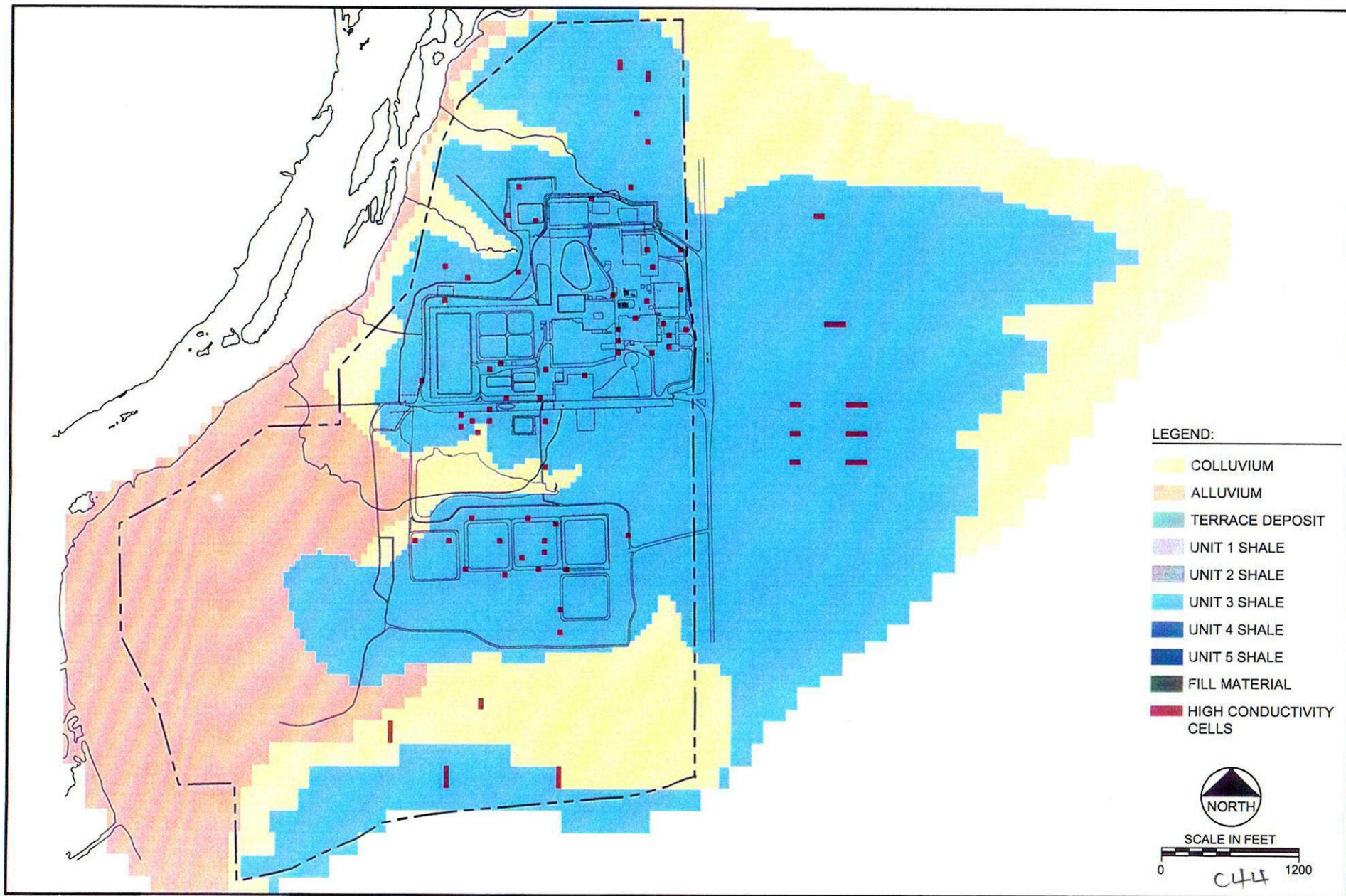


FIGURE 8-6
LAYER 4
HYDROLOGIC UNITS

Date: OCTOBER 2002
Project: 100734\REVISED-20\1
File: HYDRO-UNITS.dwg

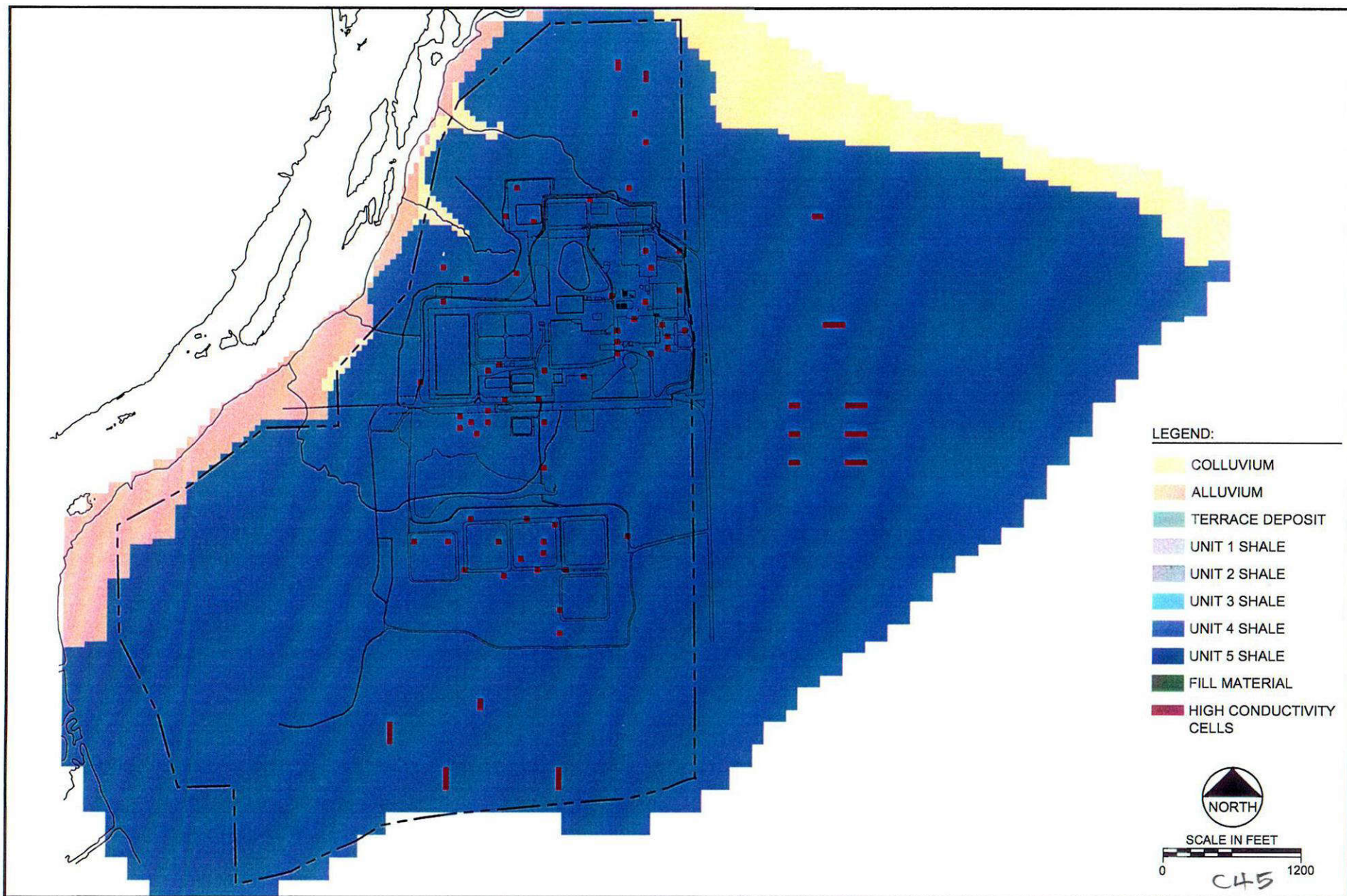


FIGURE 8-7
LAYER 5
HYDROLOGIC UNITS

Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	HYDRO-UNITS.dwg

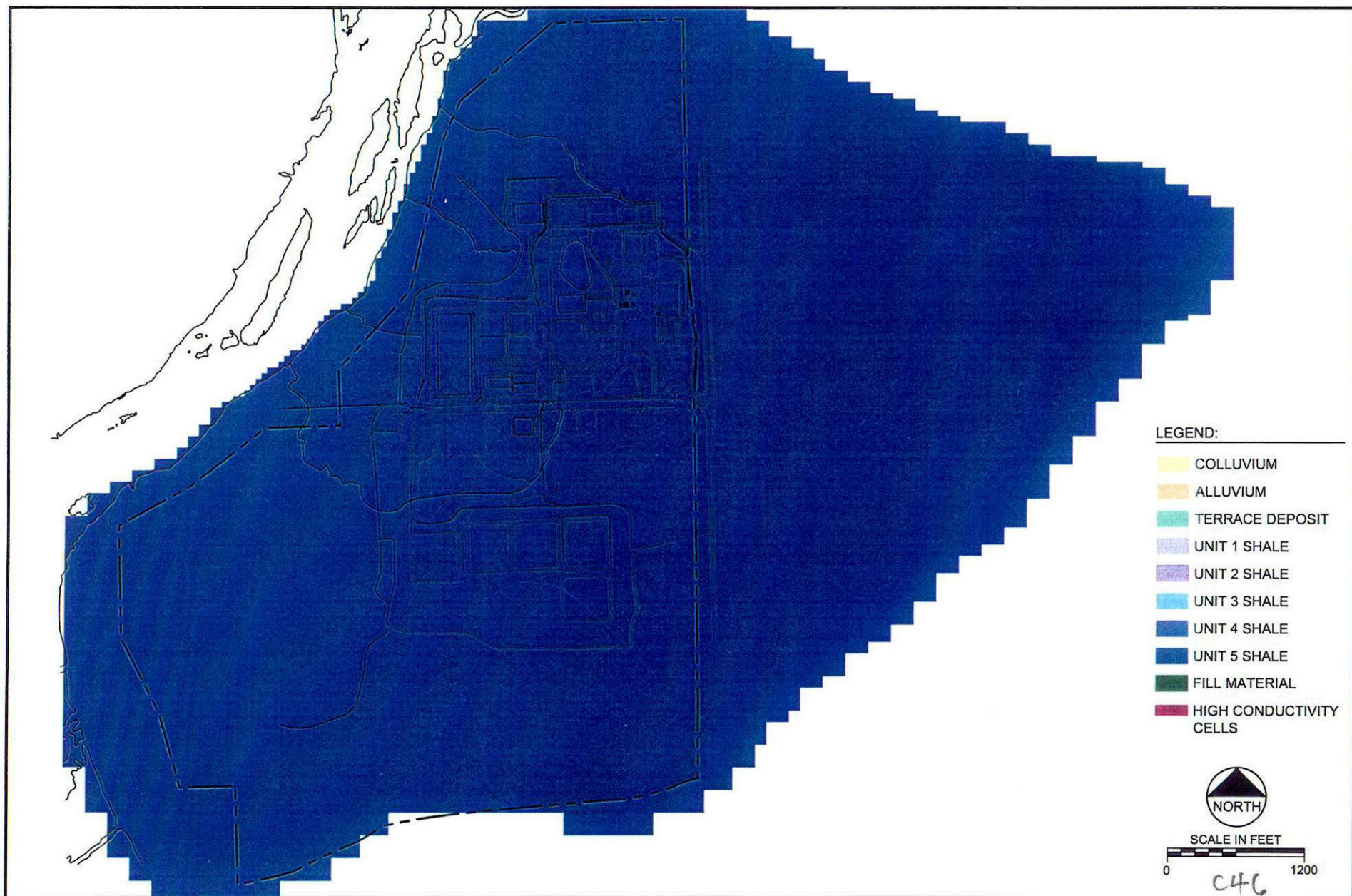


FIGURE 8-8
LAYER 6
HYDROLOGIC UNITS

Date: OCTOBER 2002
Project: 100734\REVISED-20*\
File: HYDRO-UNITS.dwg

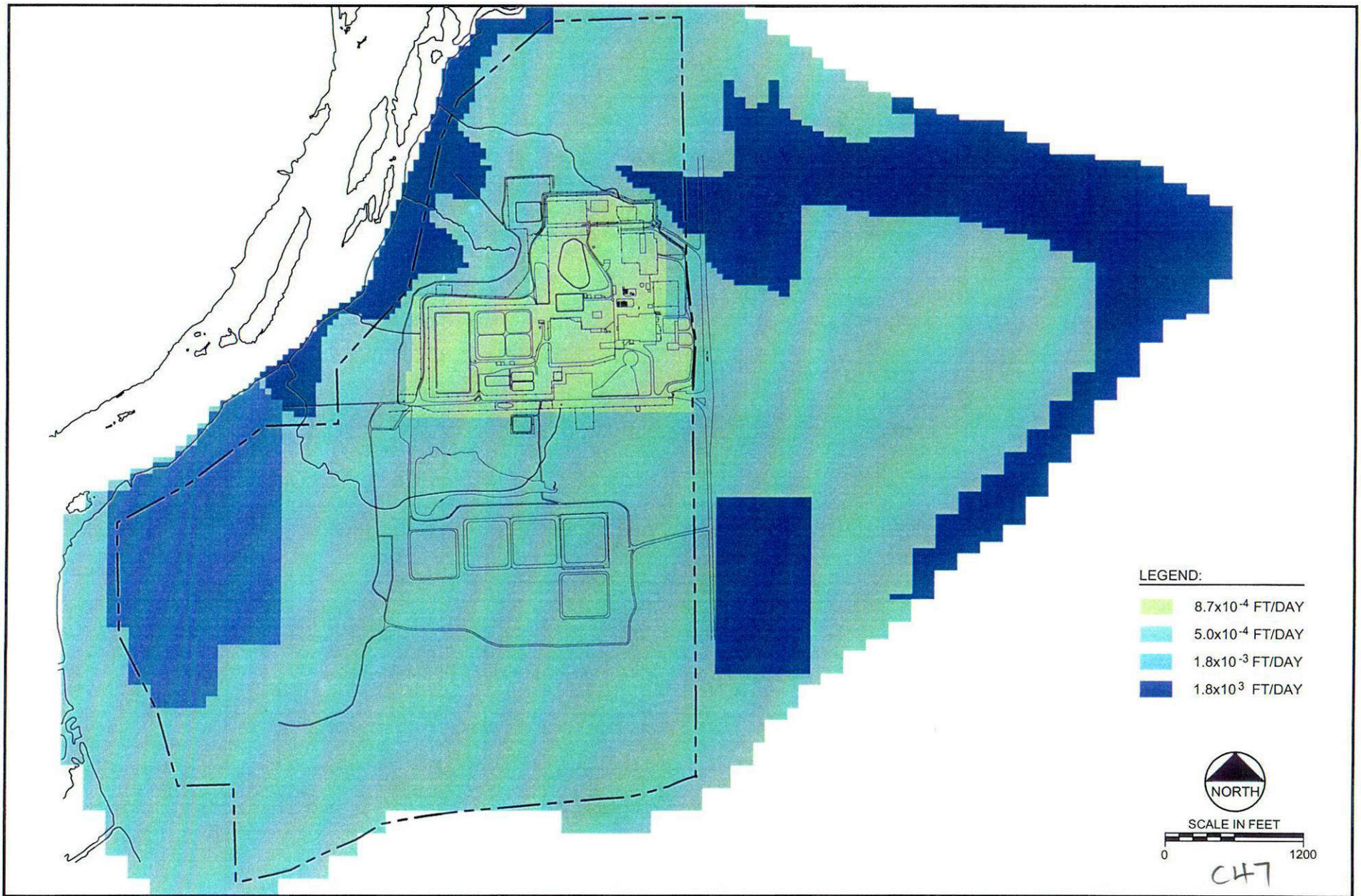
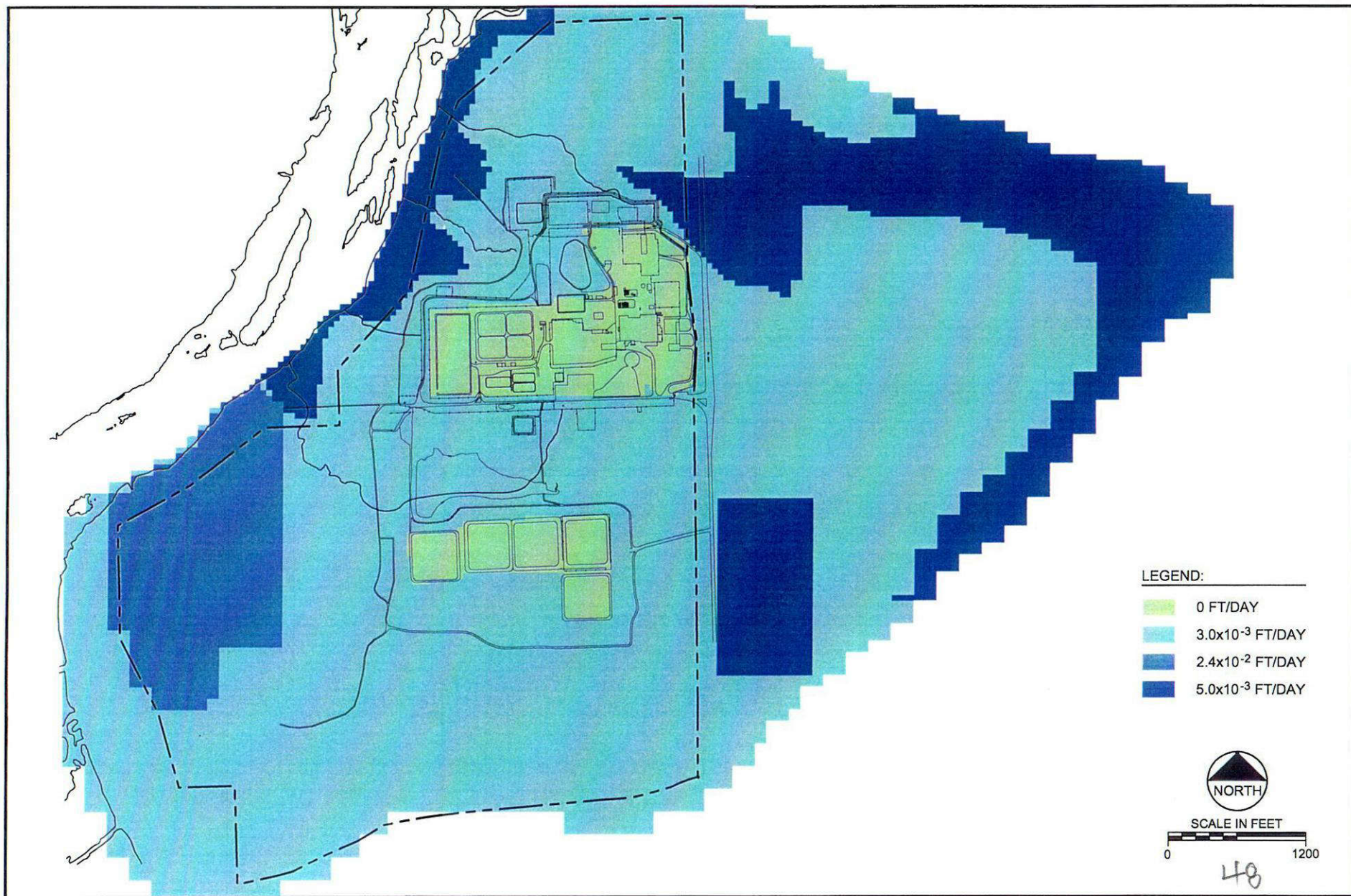


FIGURE 8-9
LAYER 1
RECHARGE RATES



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 File: RATES.dwg



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FIGURE 8-10
LAYER 1
EVAPOTRANSPIRATION RATES

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Project: 100734\REVISED-20*\nFile: RATES.dwg

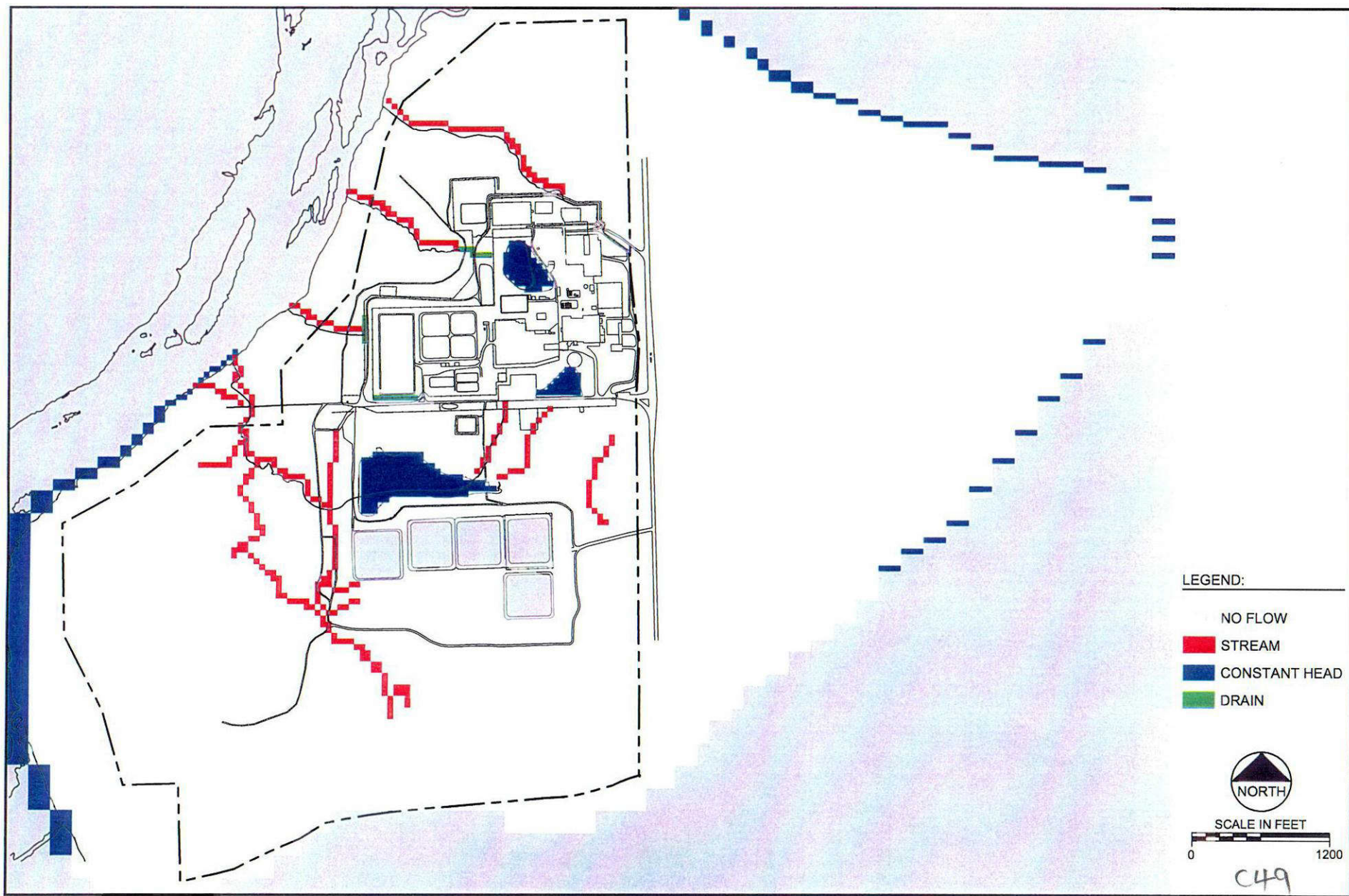


FIGURE 8-11
LAYER 1
BOUNDARY CONDITIONS

Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	BND-COND.dwg



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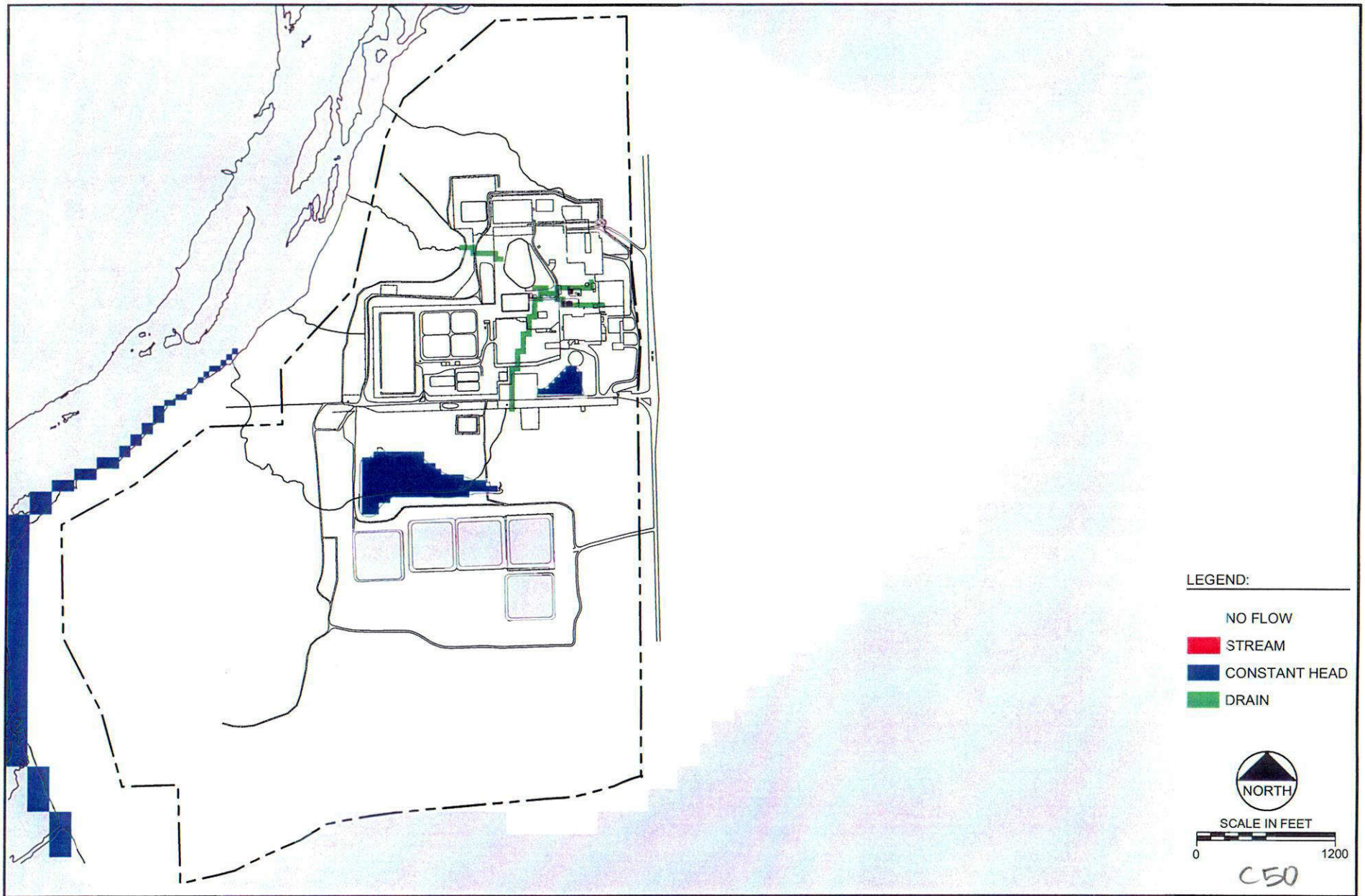


FIGURE 8-12
LAYER 2
BOUNDARY CONDITIONS

Date:	OCTOBER 2002
Project:	100734\REVISED-20"
File:	BND-COND.dwg



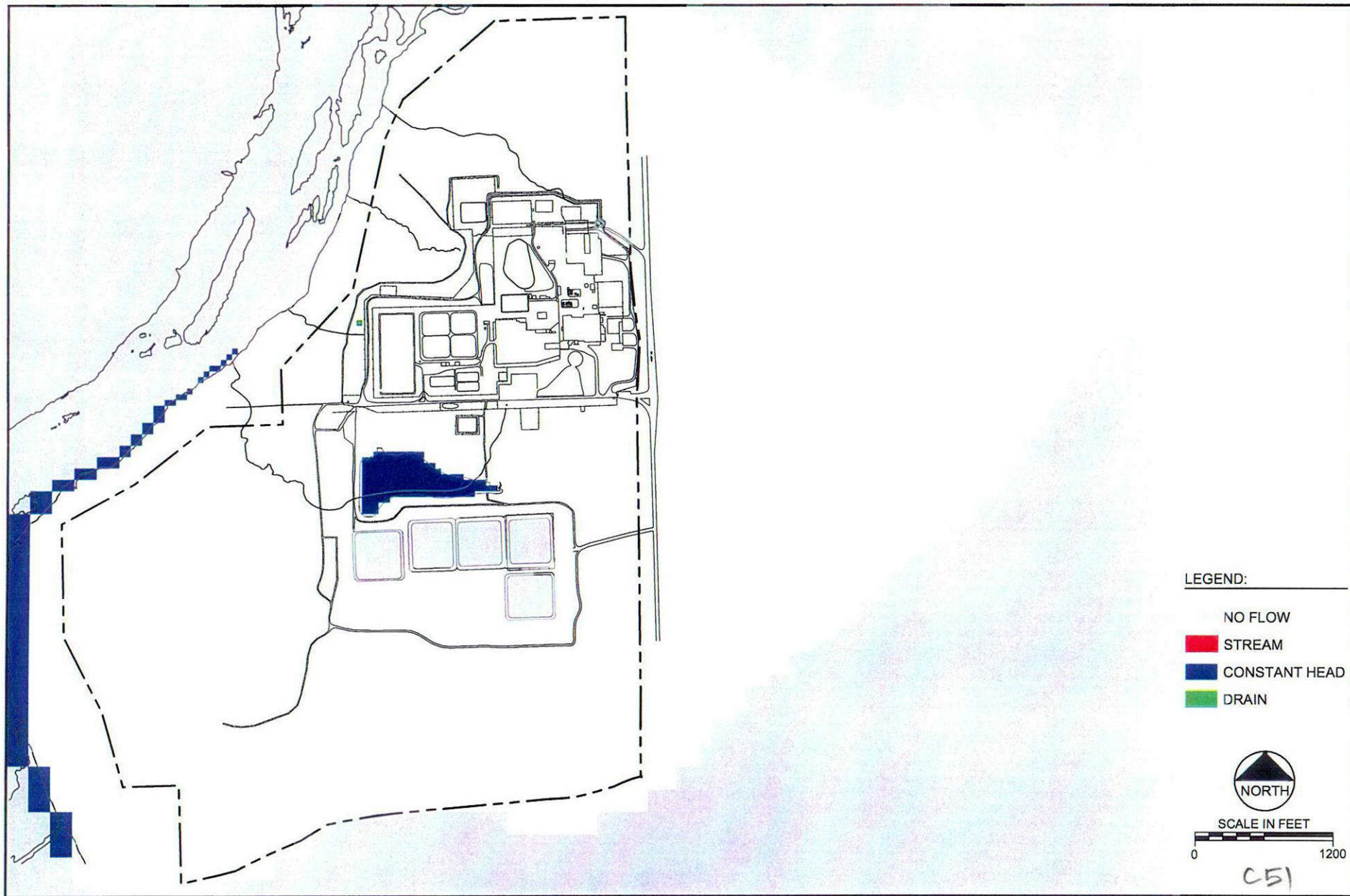


FIGURE 8-13
LAYER 3
BOUNDARY CONDITIONS

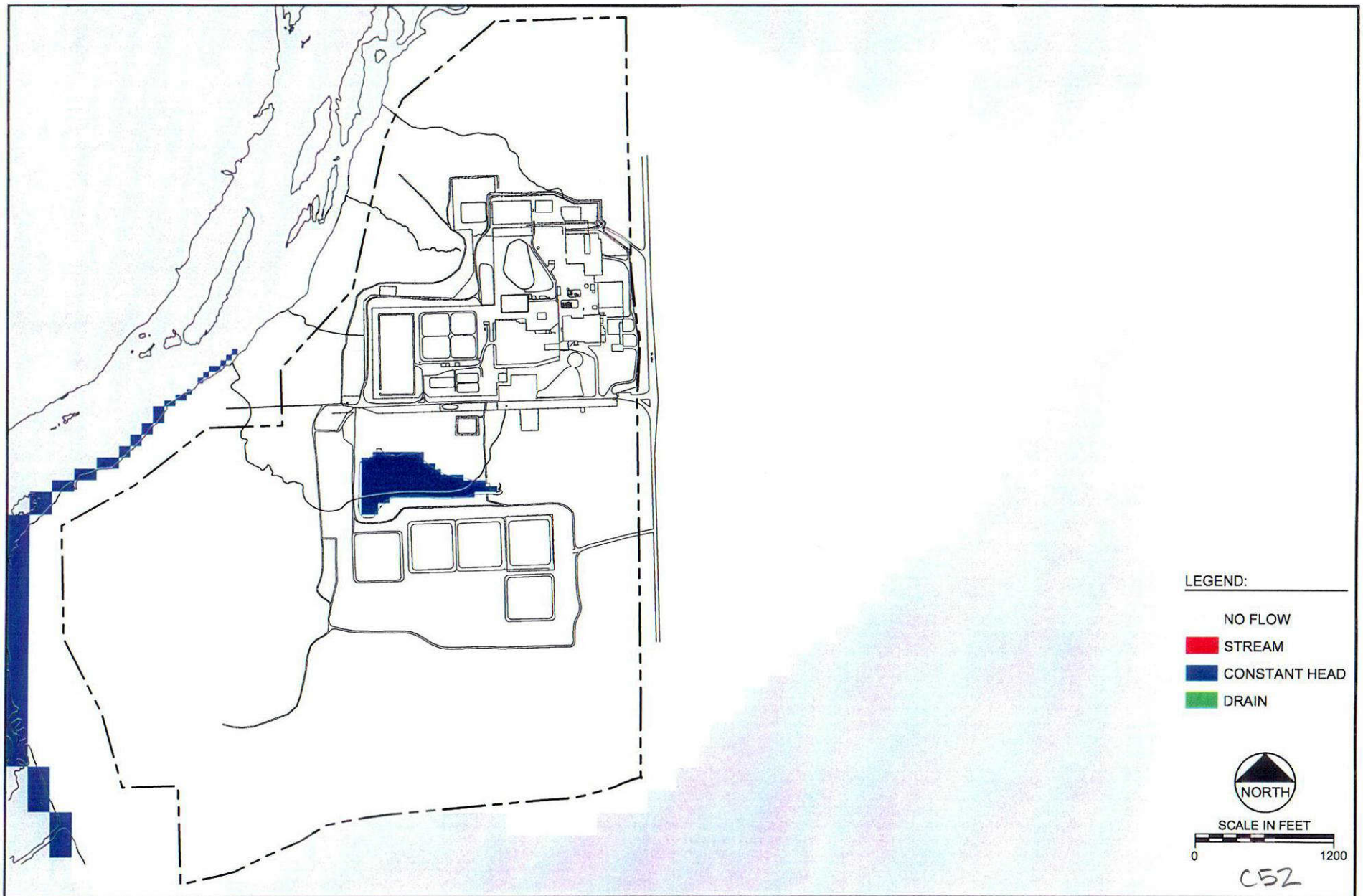
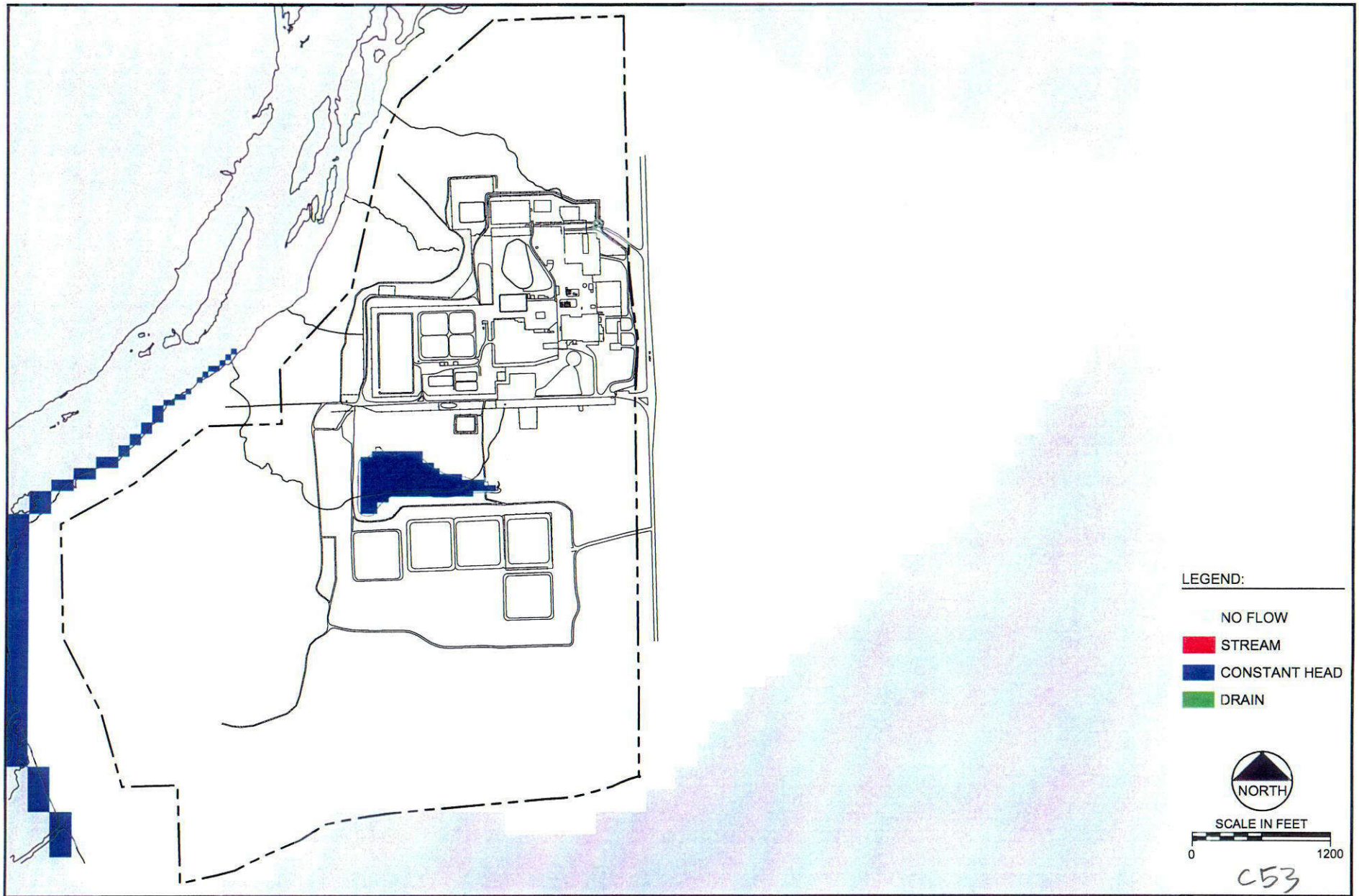


FIGURE 8-14
LAYER 4
BOUNDARY CONDITIONS



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FIGURE 8-15
LAYER 5
BOUNDARY CONDITIONS

Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	BND-COND.dwg

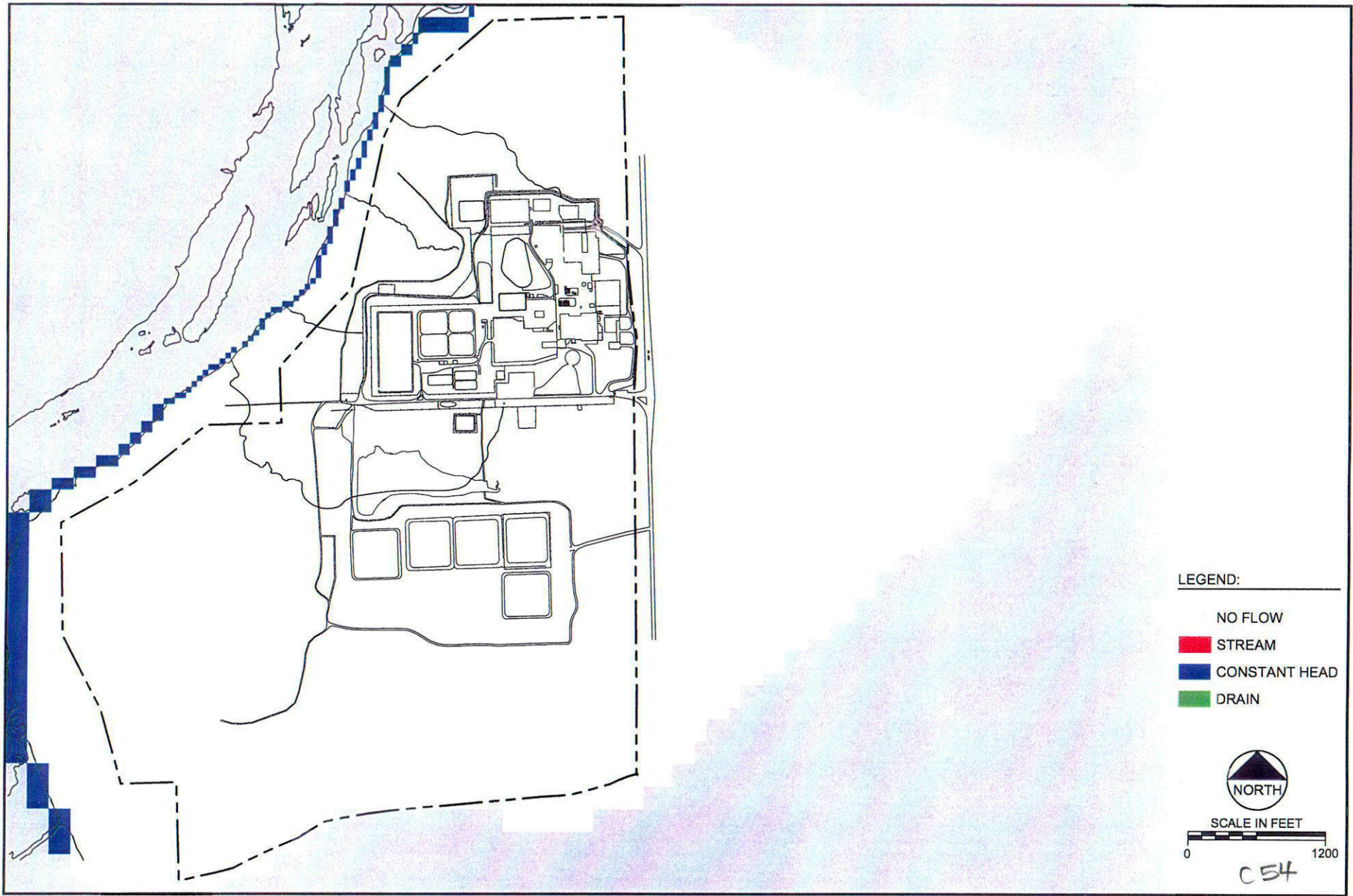
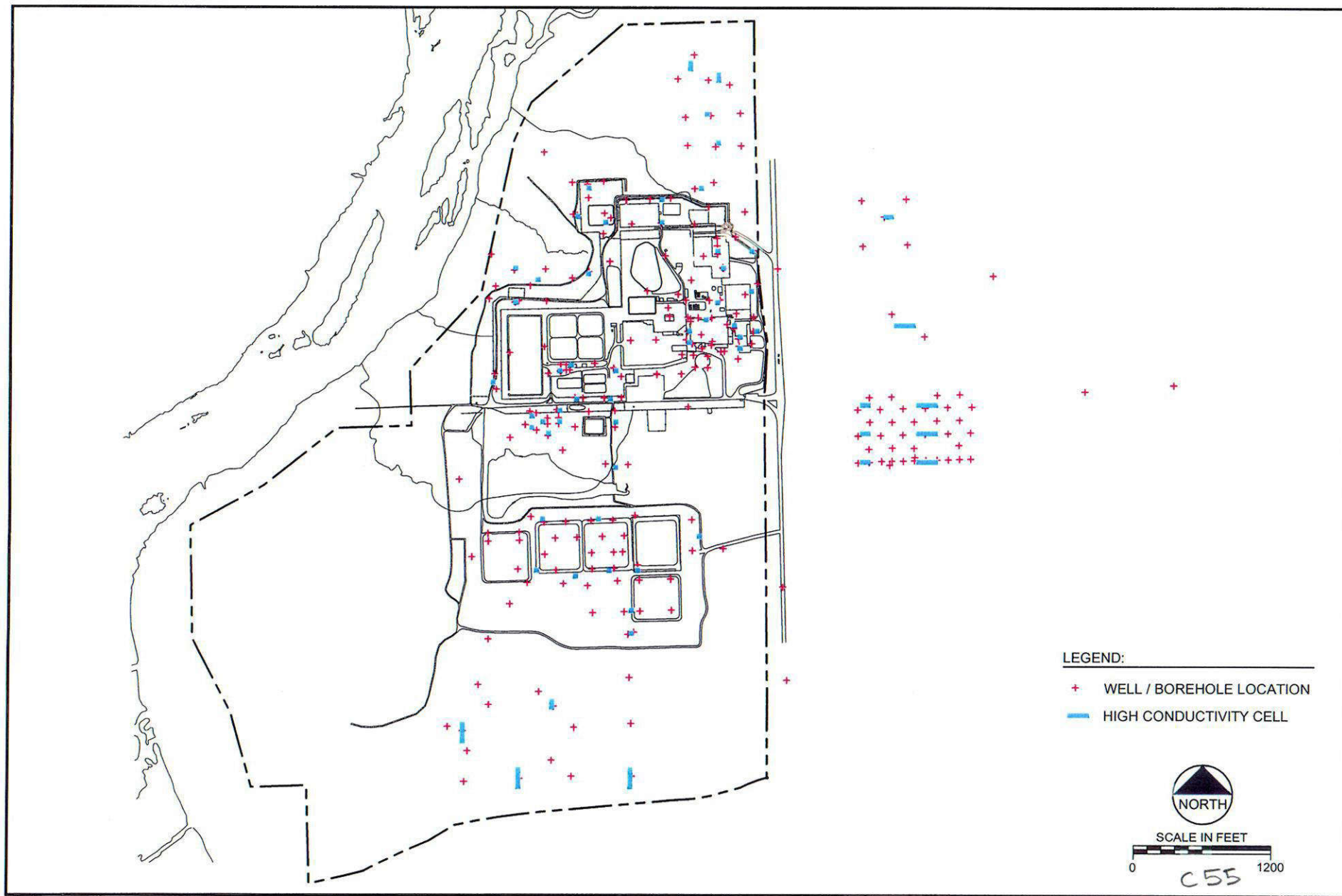


FIGURE 8-16
LAYER 6
BOUNDARY CONDITIONS

Date:	OCTOBER 2002
Project:	100734\REVISED-20\
File:	BND-COND.dwg



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FIGURE 8-17
LOCATION OF
HIGH CONDUCTIVITY CELLS

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Project: 100734\REVISED-20*\nFile: CELL-HICOND.dwg

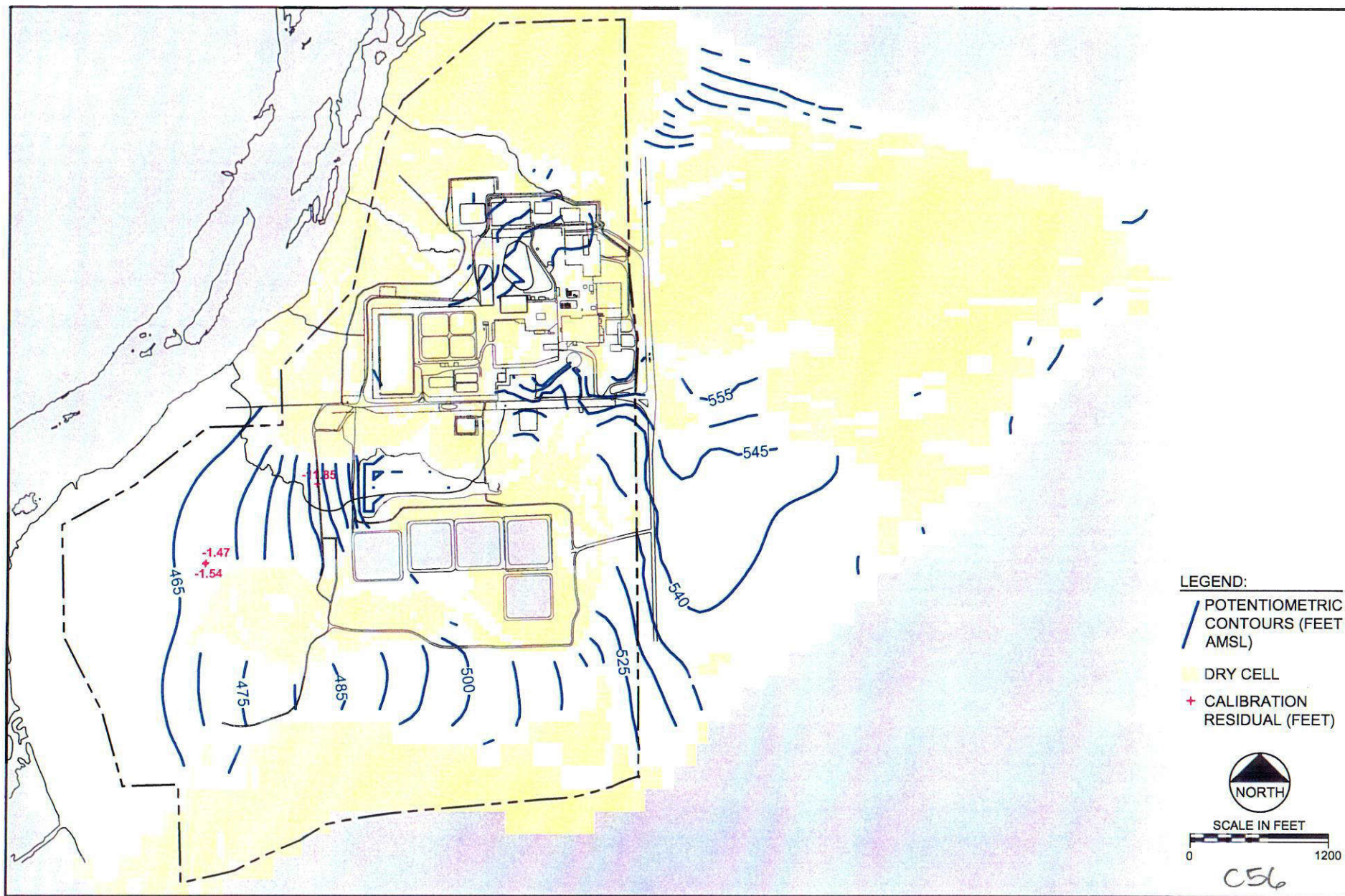


FIGURE 8-18
LAYER 1
CALIBRATED HEADS

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Project:	100734\REVISED-20\
File:	CAL-HEADS.dwg



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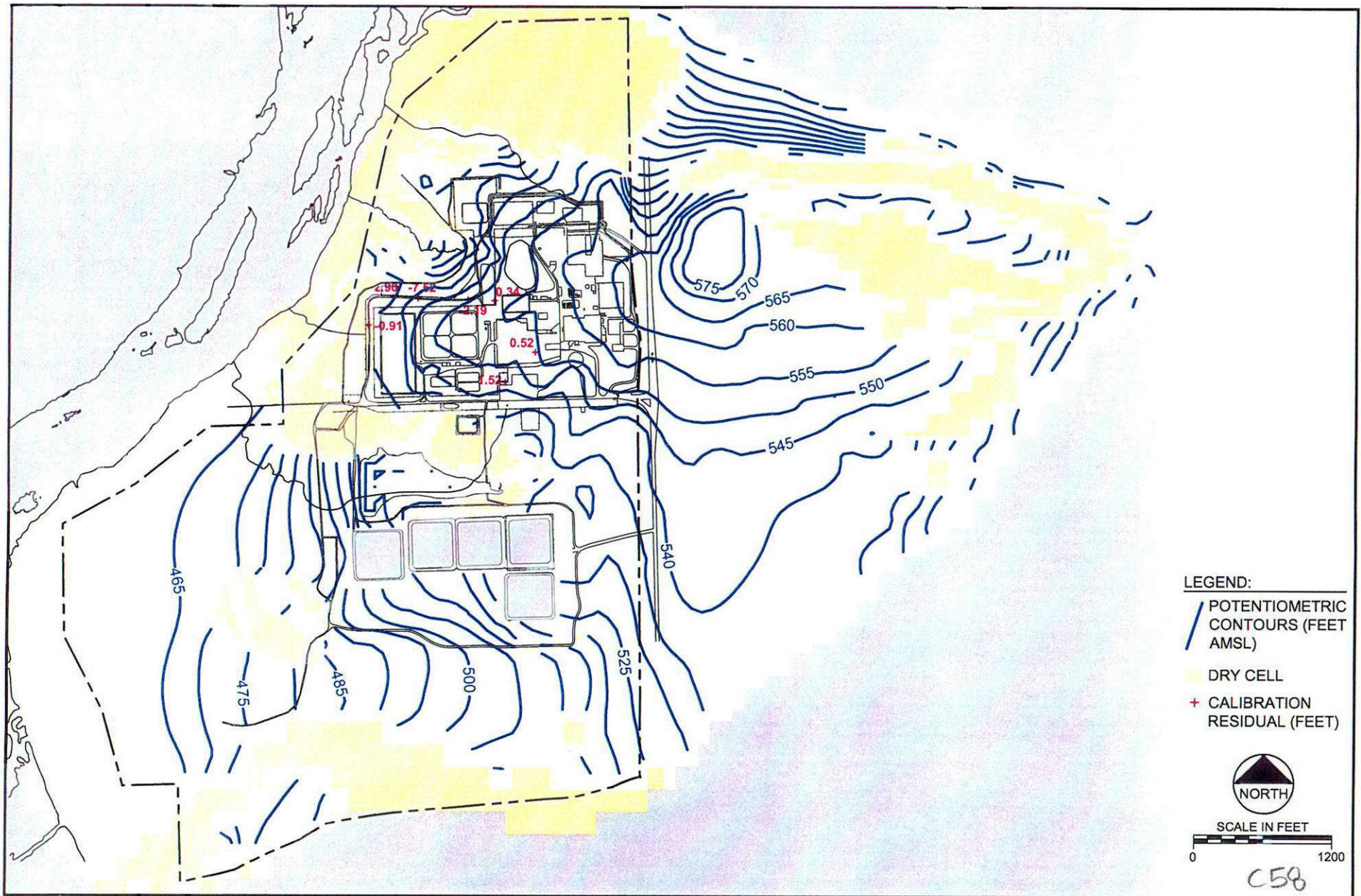


FIGURE 8-20
LAYER 3
CALIBRATED HEADS

Date:	OCTOBER 2002
Project:	100734\REVISED-20*
File:	CAL-HEADS.dwg