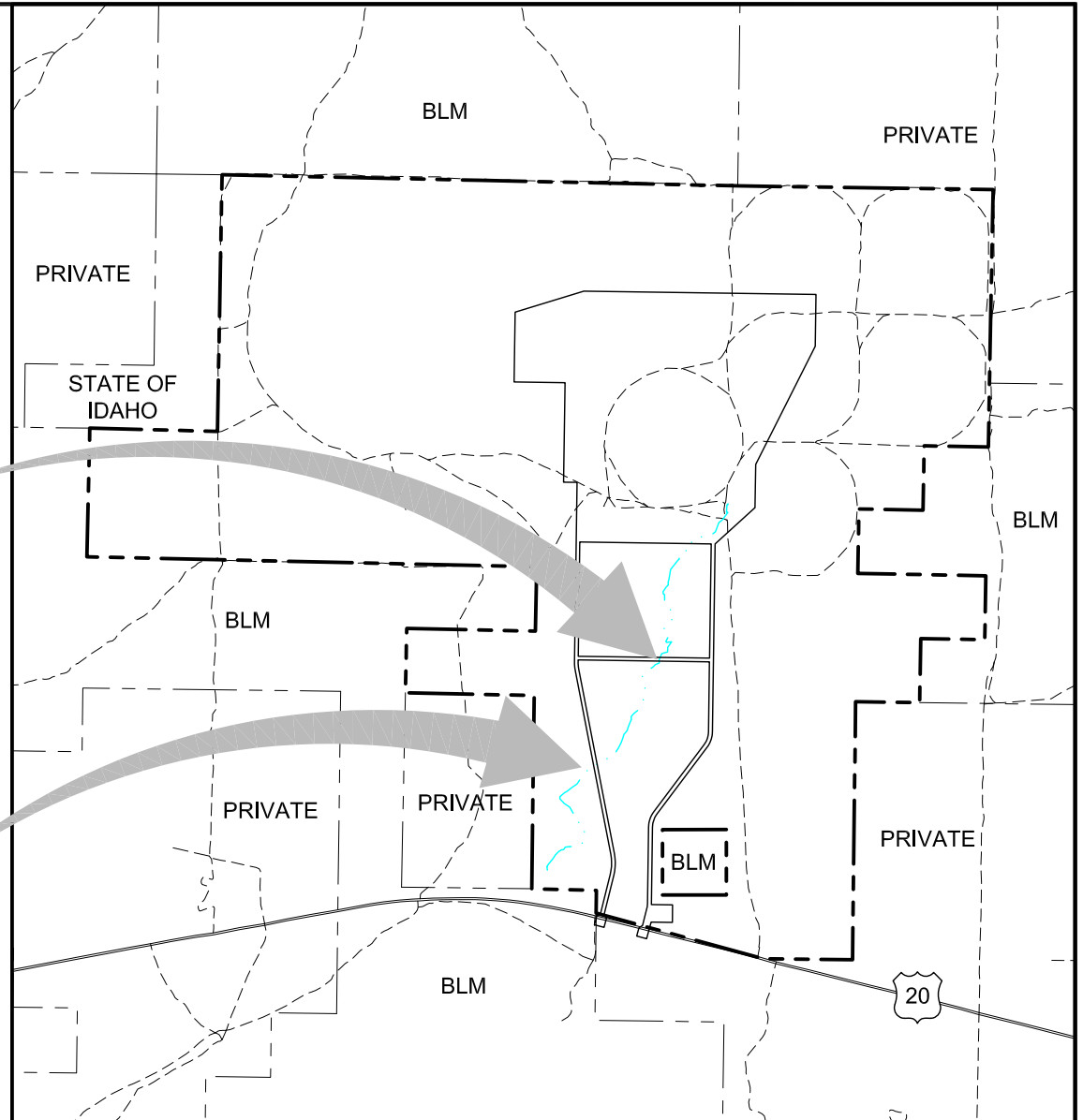
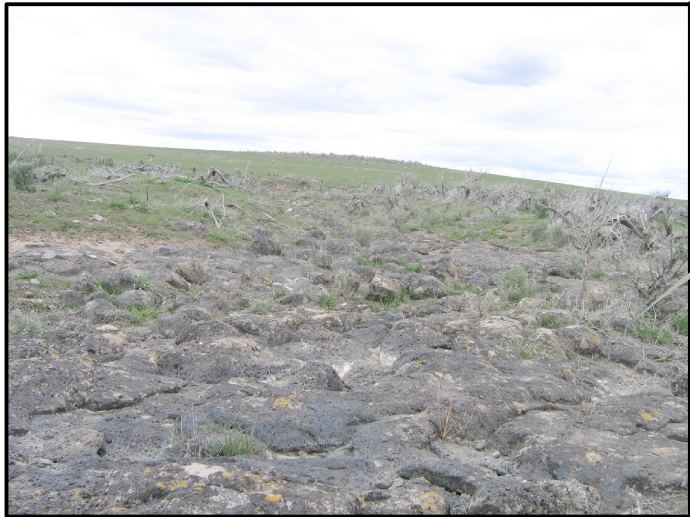


FIGURES



LEGEND:

- — — — — PROPOSED SITE BOUNDARY
- · · · · EXISTING ROADS
- — — — — DRAINAGE FEATURE

SCALE
0 1000 2000 m

SCALE
0 4000 8000 ft

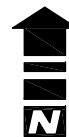
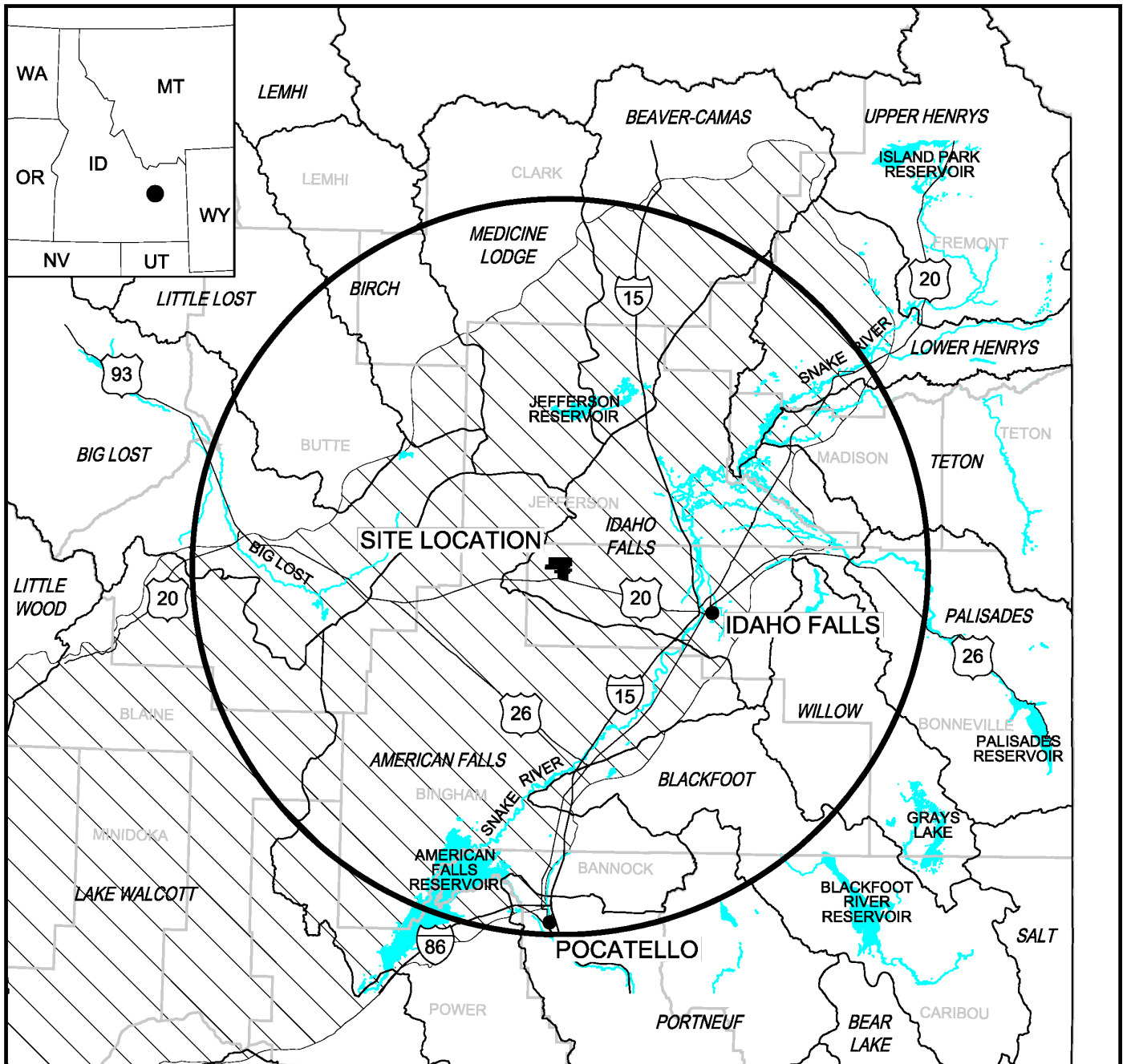


Figure 3.4-1

Rev. 1

Drainage Feature and Location

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LEGEND:

— 80 km (50 mi) RADIUS



SNAKE RIVER PLAIN AQUIFER



LEMHI HYDROLOGIC UNIT CODE (HUC)

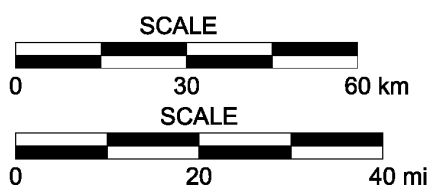
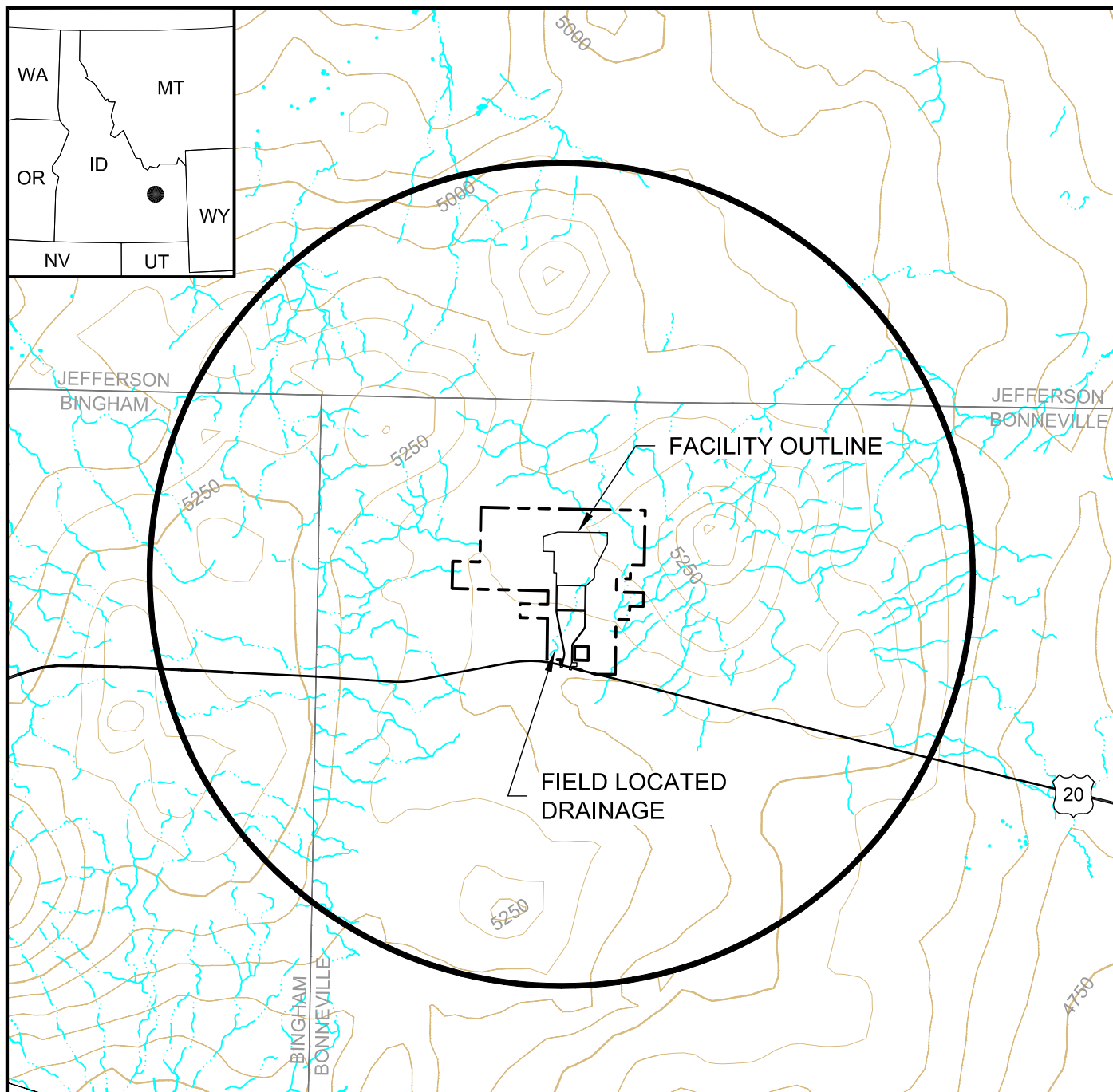


Figure 3.4-2

Regional Hydrologic Features
Within 80 km (50 mi)

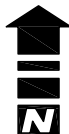
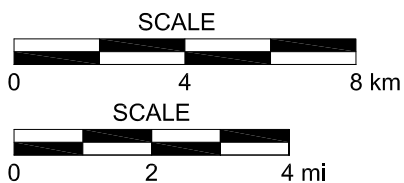
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LEGEND:

- 5250 — APPROXIMATE EXISTING
GROUND SURFACE CONTOUR
AND ELEVATION, ft
- - - PROPOSED SITE BOUNDARY
- 8 km (5 mi) RADIUS
- · — · — DRAINAGE



NOTE:

1. GROUND SURFACE CONTOUR
ELEVATIONS ARE SHOWN IN FEET.
METRIC CONVERSION IS 1 m = 3.281 ft

Figure 3.4-3

Local Hydrologic Features
Within 8 km (5 mi)

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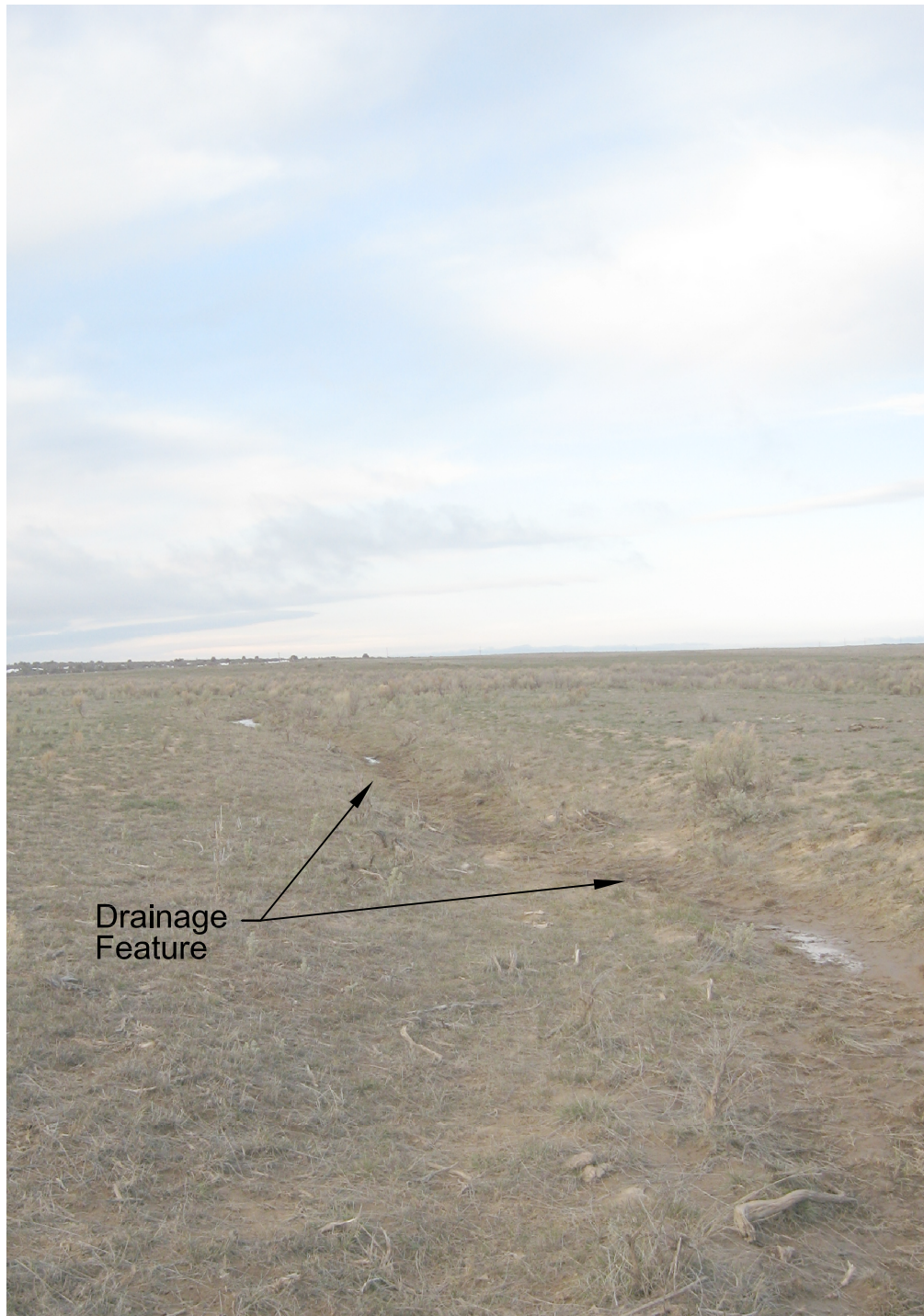
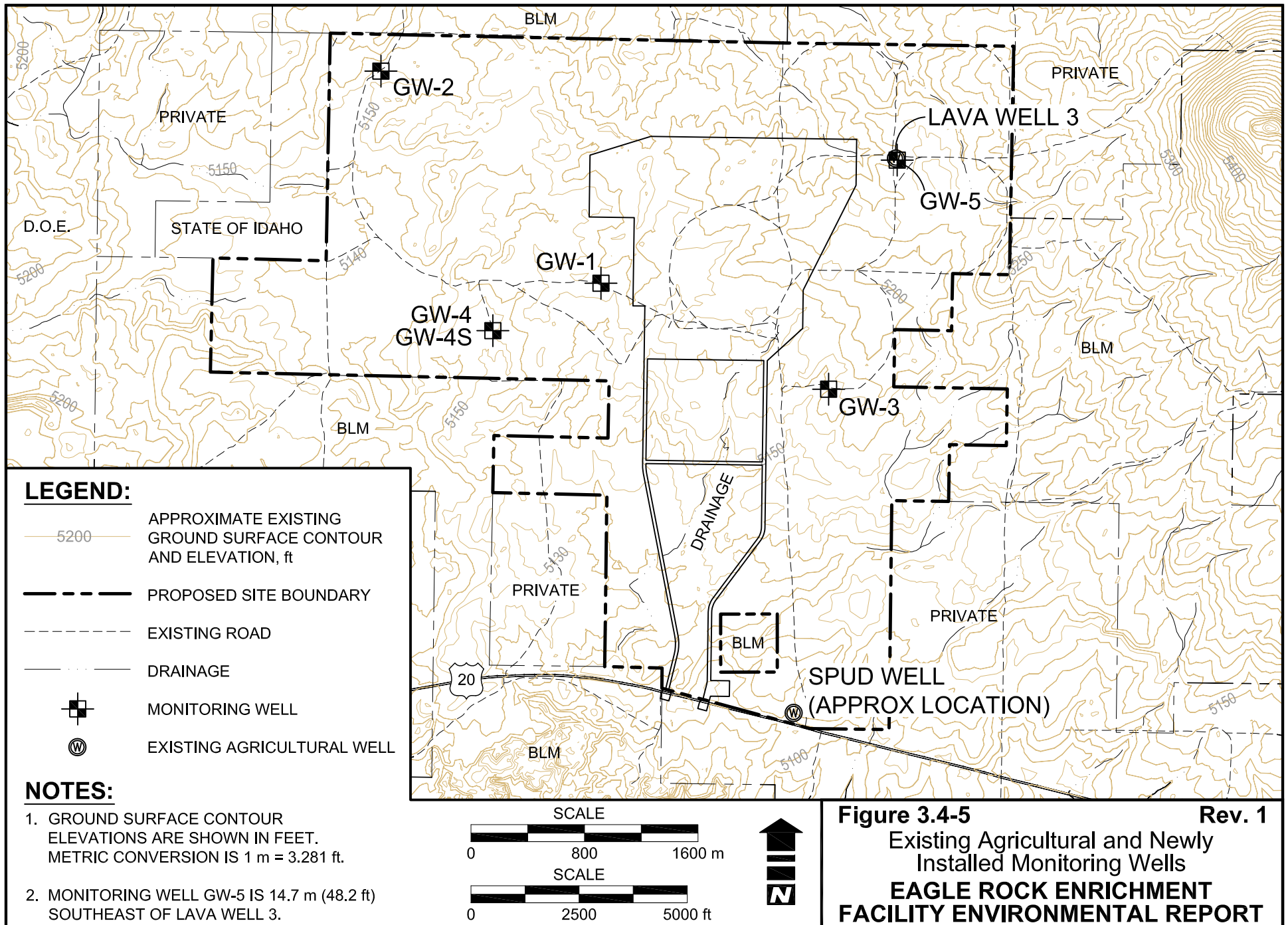


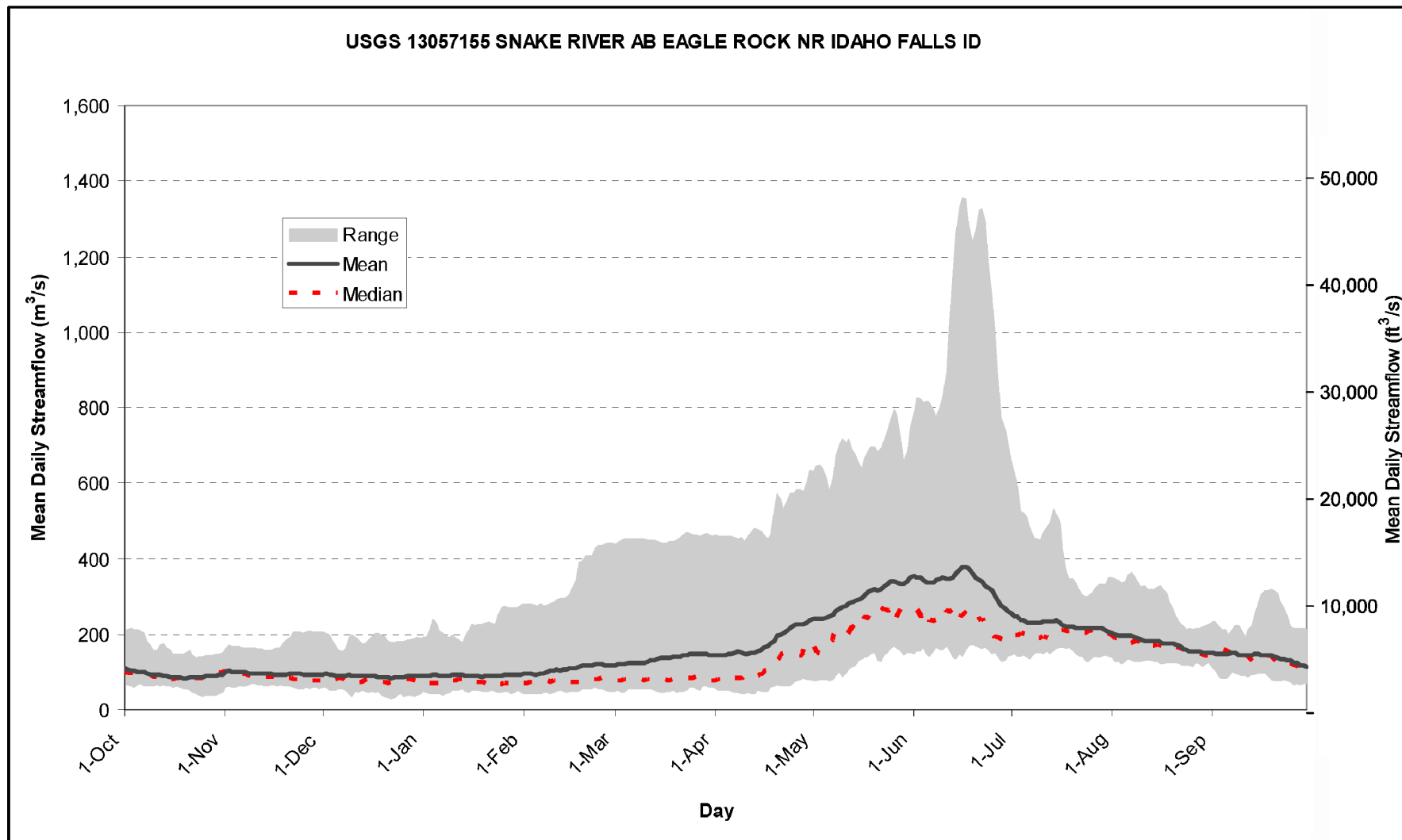
Figure 3.4-4

Rev. 1

Photo of Small Drainage Feature

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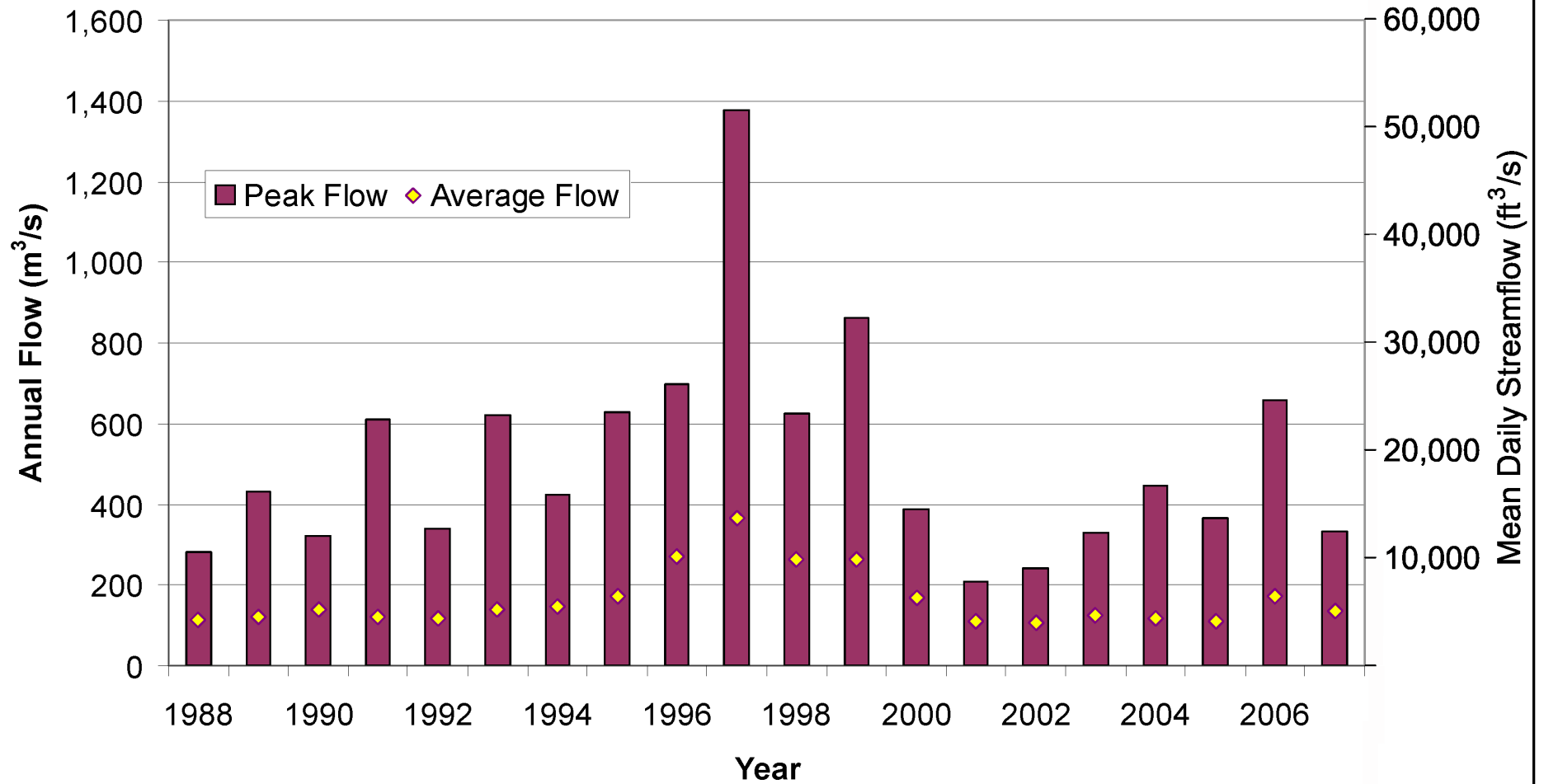




DATA SOURCE: USGS, 2008

Figure 3.4-6 **Rev. 1**
 Snake River above Eagle Rock
 near Idaho Falls Hydrograph
EAGLE ROCK ENRICHMENT
FACILITY ENVIRONMENTAL REPORT

USGS 13057155 SNAKE RIVER AB EAGLE ROCK NR IDAHO FALLS ID



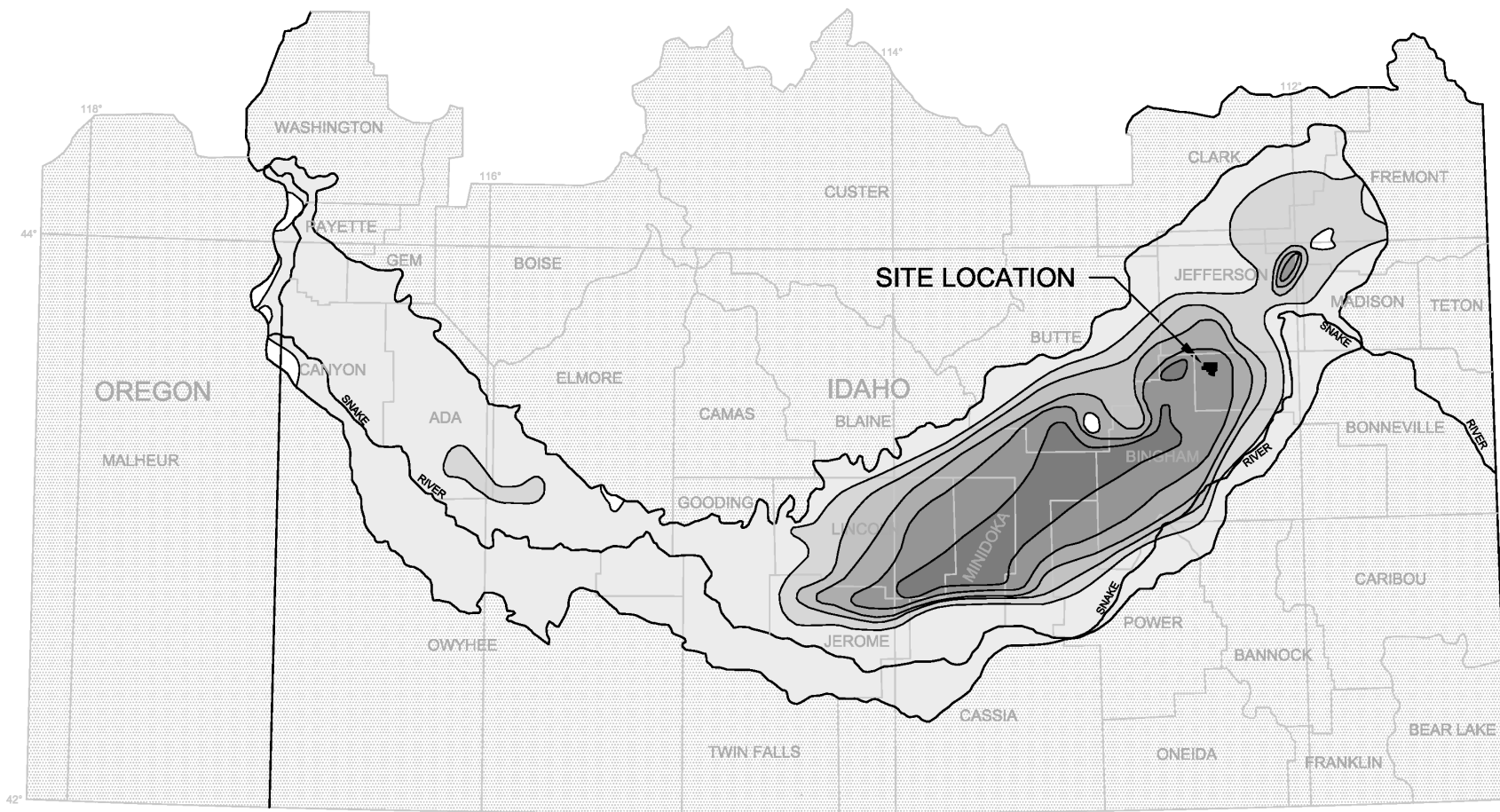
DATA SOURCE: USGS, 2008

Figure 3.4-7

Rev. 1

Annual Flows in the Snake River

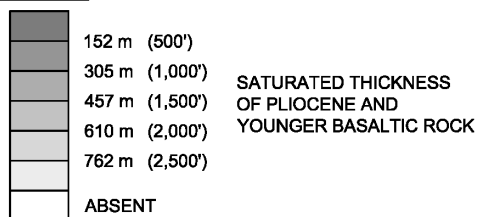
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BASE MODIFIED FROM U.S. GEOLOGICAL
SURVEY DIGITAL DATA, 1:2,000,000, 1972

NOTE: ADAPTED FROM WHITEHEAD (WHITEHEAD, 1994).

LEGEND



NOTE: CONVERSIONS FROM ENGLISH TO
METRIC UNITS ARE APPROXIMATIONS DUE
TO ROUNDING.

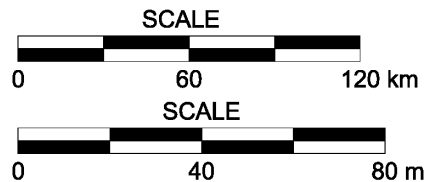
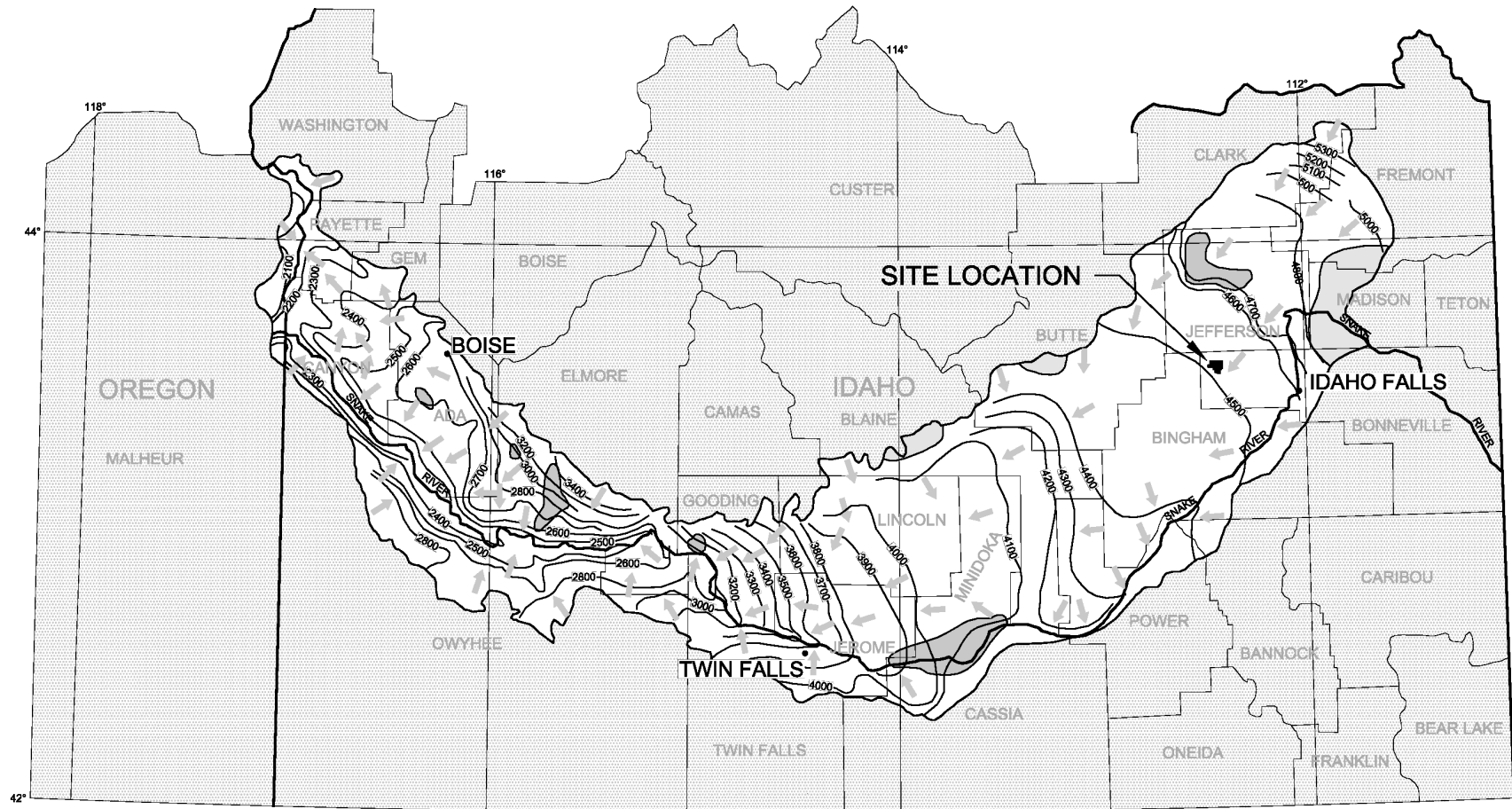


Figure 3.4-8

Saturated Thickness of Pliocene and
Younger Basaltic Rocks in the ESRP Aquifer
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Rev. 1



BASE MODIFIED FROM U.S. GEOLOGICAL SURVEY DIGITAL DATA, 1:2,000,000, 1972

NOTE: ADAPTED FROM WHITEHEAD (WHITEHEAD, 1994).

LEGEND

—5300— AREA WHERE LOCAL AQUIFER OR PERCHED WATER BODIES OVERLIE REGIONAL AQUIFER SYSTEM

● WATER TABLE CONTOUR - SHOWS ALTITUDE OF REGIONAL WATER TABLE DURING SPRING 1980. CONTOUR INTERVAL, IN FEET, IS VARIABLE. DATUM IS SEA LEVEL.

← DIRECTION OF GROUNDWATER MOVEMENT

NOTE:

1. WATER CONTOUR ELEVATIONS ARE SHOWN IN FEET. METRIC CONVERSION IS 1 m = 3.281 ft

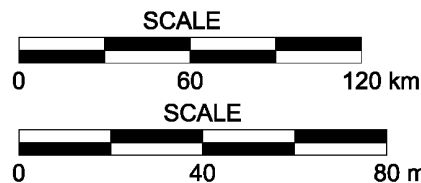
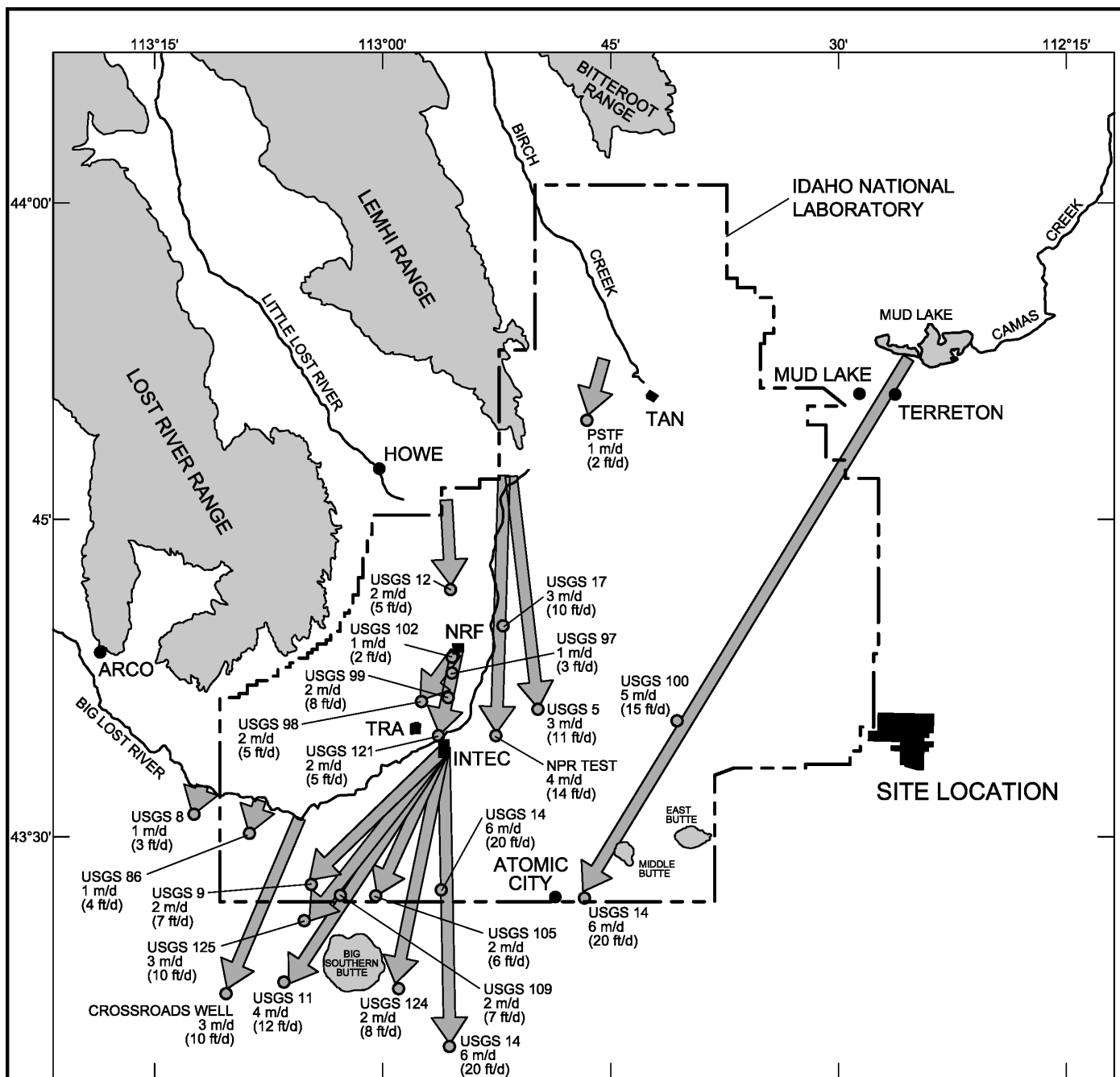


Figure 3.4-9

Rev. 1
Groundwater Elevations and General Direction
of Groundwater Movement in the SRP Aquifer

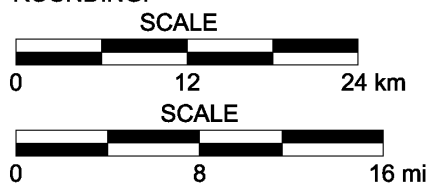
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Base from U.S. Geological Survey digital data, 1:24,000 and 1:100,000 Universal Transverse Mercator projection, Zone 12 Datum is North American Datum of 1927

NOTES:

1. GROUNDWATER VELOCITIES ARE BASED ON CHLORIDE-36 AND TRITIUM DATA AT IDAHO NATIONAL LABORATORY (ACKERMAN, 2006).
2. ADAPTED FROM ACKERMAN, 2006.
3. CONVERSIONS FROM ENGLISH TO METRIC UNITS ARE APPROXIMATIONS DUE TO ROUNDING.



LEGEND:



GROUNDWATER FLOW DIRECTION BASED ON LOCATION OF WELL SAMPLED AND INTERPRETED SOURCE OF GROUNDWATER



WELL IN THE USGS WATER LEVEL MONITORING NETWORK AND IDENTIFIER WITH CALCULATED GROUNDWATER FLOW VELOCITY

Figure 3.4-10

Rev. 1

Groundwater Velocities in the ESRP
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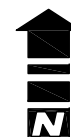
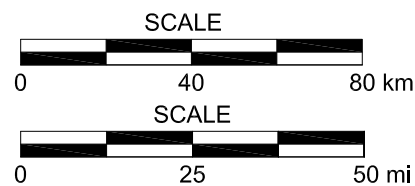
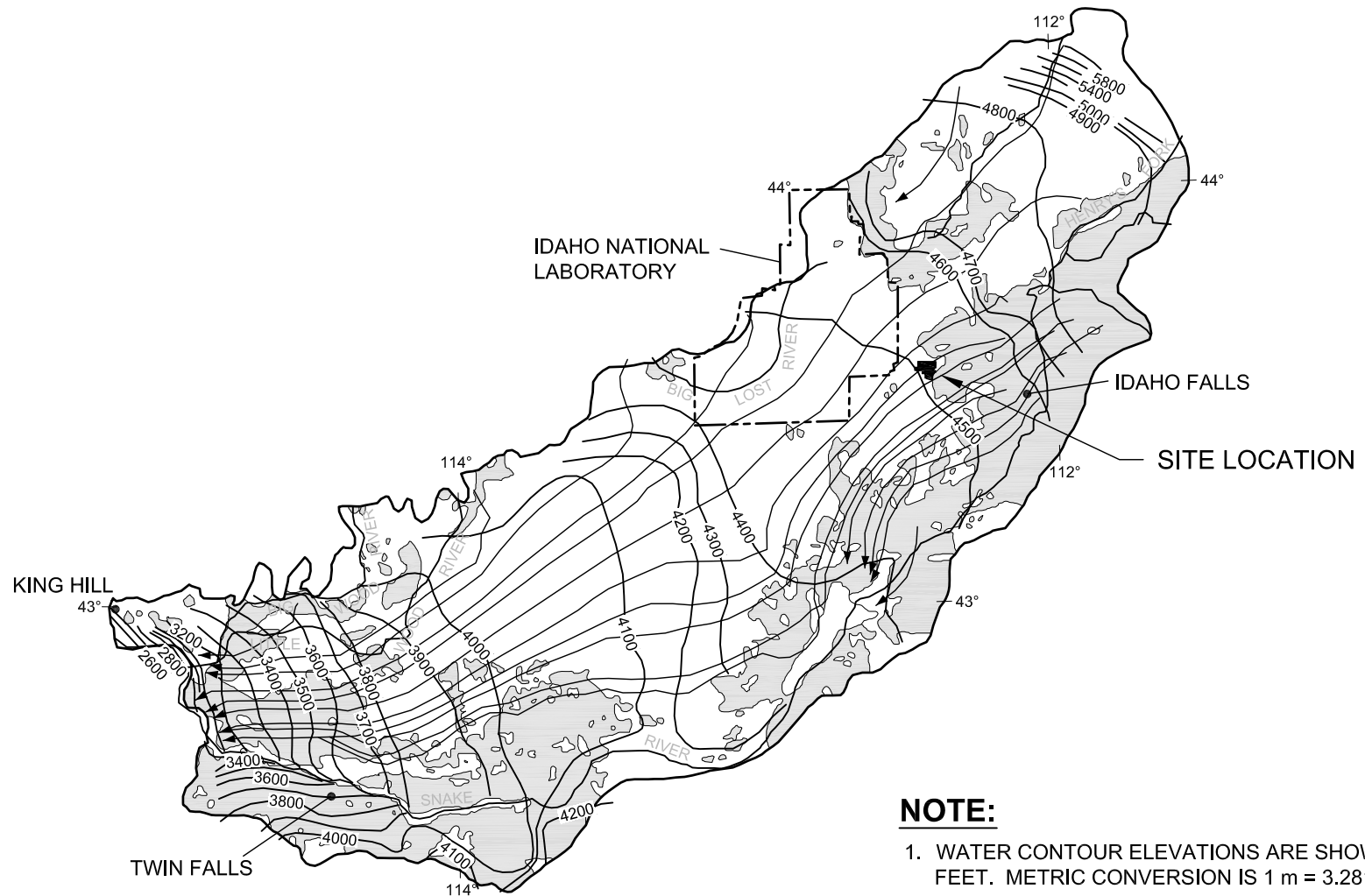
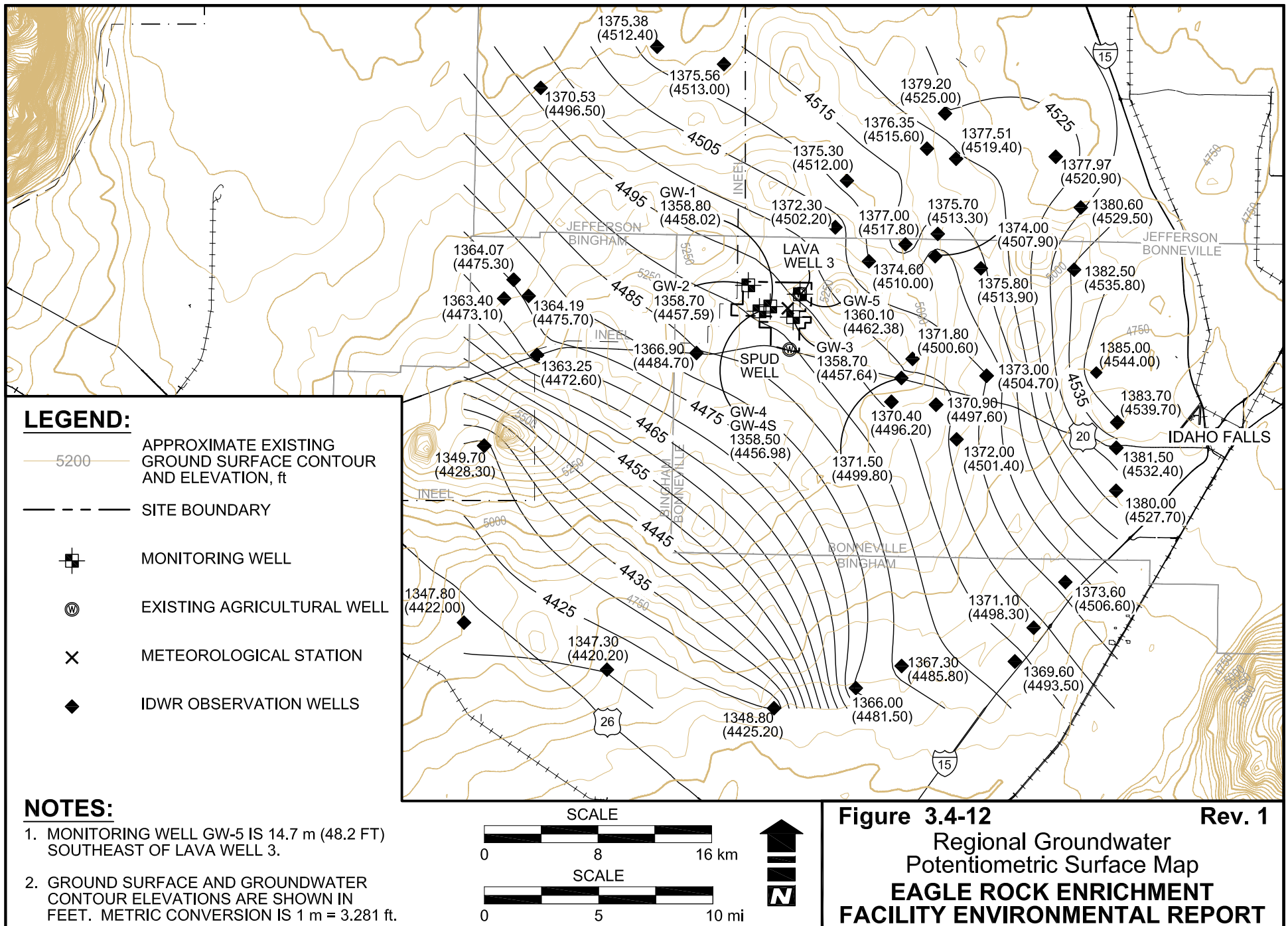


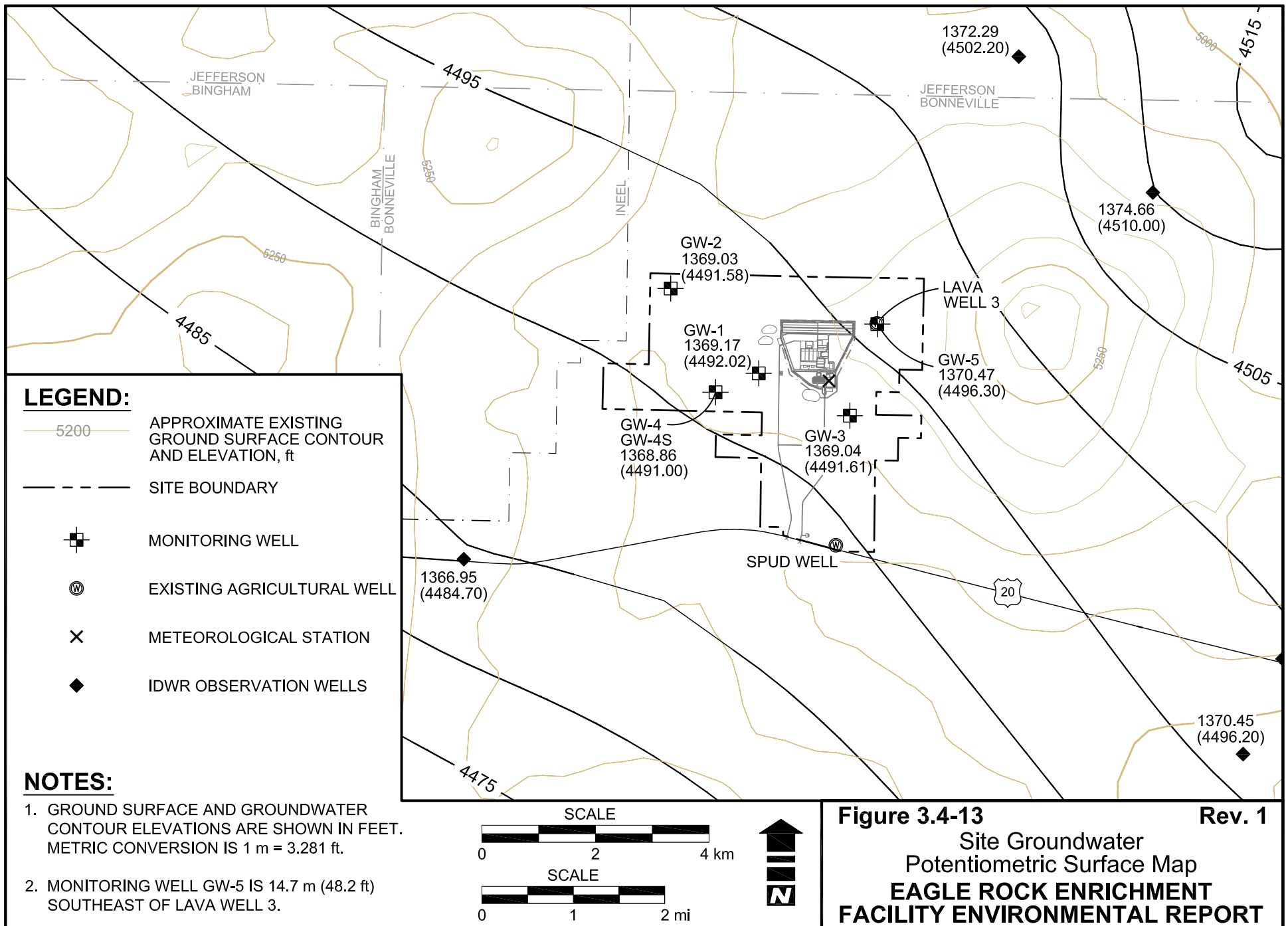
Figure 3.4-11

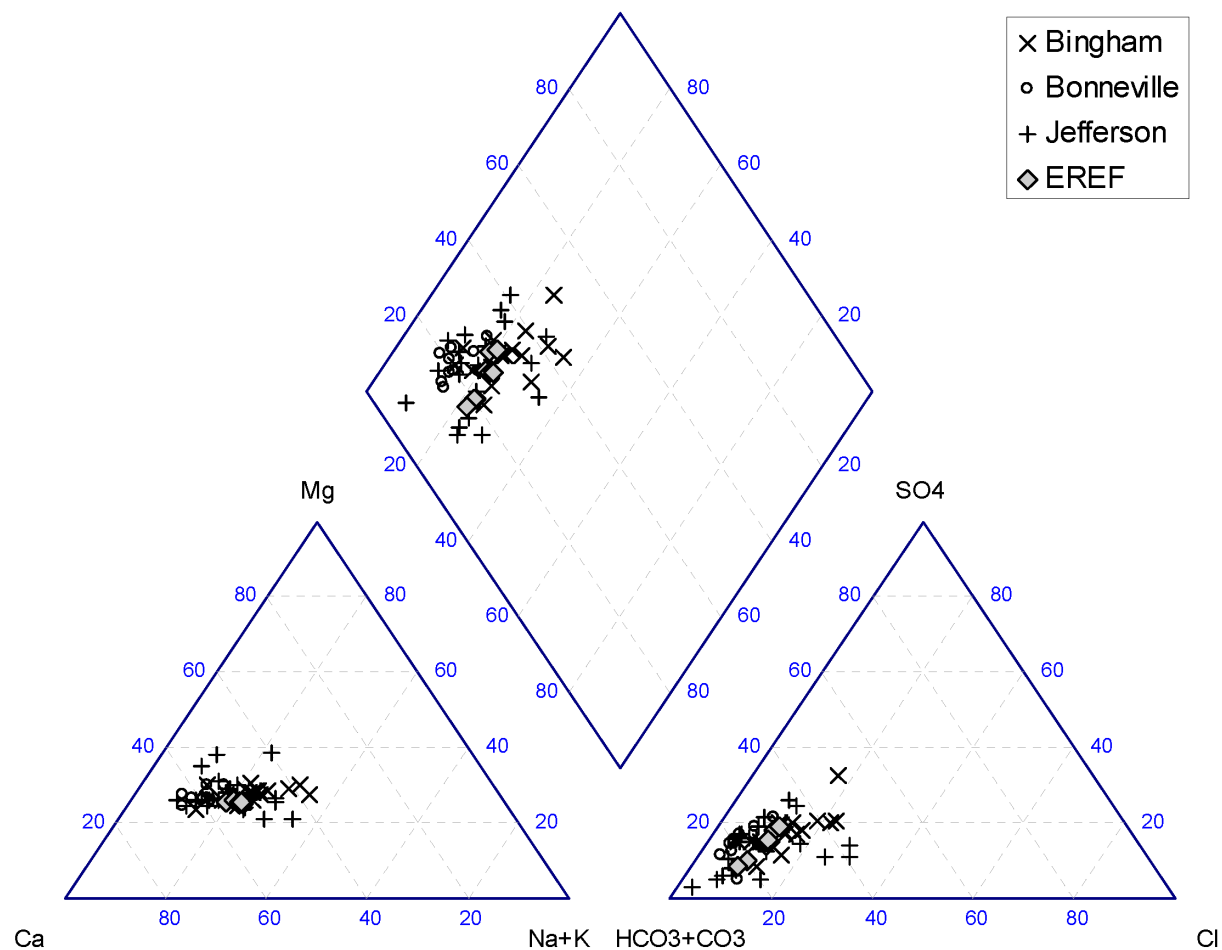
Rev. 1

Water Elevations and Flow
Directions in the ESRP Aquifer

**EAGLE ROCK ENRICHMENT
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NOTE: DIAGRAM BASED ON DATA FROM WELLS IN BINGHAM, BONNEVILLE, AND JEFFERSON COUNTIES REPORTED BY WOOD (WOOD, 1988) AND SITE SPECIFIC DATA.

Figure 3.4-14

Rev. 1

Piper Diagram Showing Major Elemental Compositions of Groundwater in the ESRP Aquifer

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