FIGURES

LEGEND

- UNIMPROVED ROADS AND PARKING
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- BERM
- TRENCH
- ROW OF WOOD FRAMED TARGET BOXES

FIGURE 1-1
SITE LOCATION MAP
FORMER CHOCCOLOCCO CORRIDOR RANGES
PARCELS 94Q, 95Q, 96Q, 97Q AND ASSOCIATED PARCELS

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DRAWN BY: D. BOMAR | STARTING DATE: 04/29/03 | DATE LAST REV.:
PROJ. MGR.: J. YACOUB | INITIATOR: J. RAGSDALE | DWG. NO.: ...\796887es.743
ENGR. CHCK. BY: S. MORAN | DRAFT. CHCK. BY:
PROJ. NO.: 796887
DRAWN BY:
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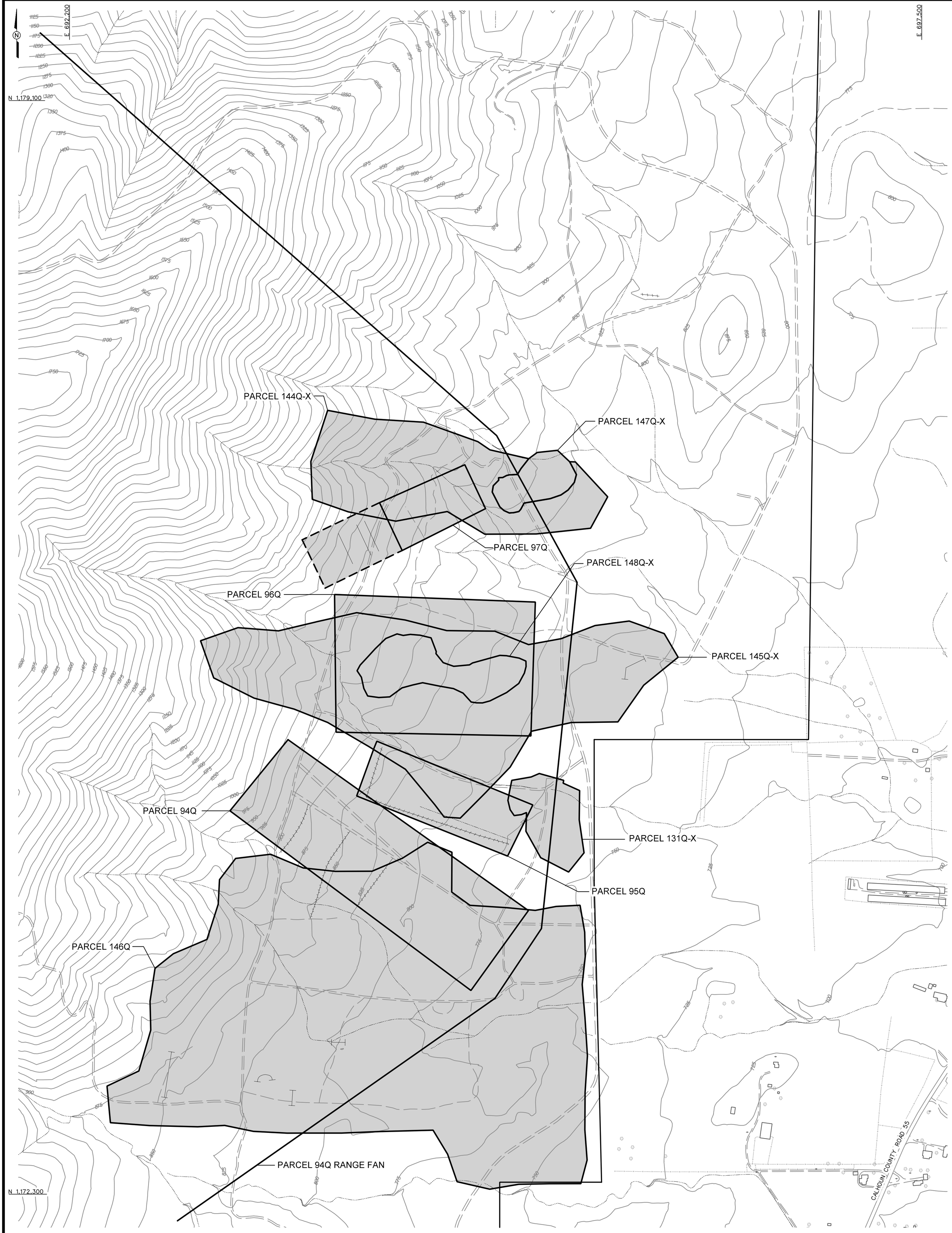
STARTING DATE: 04/29/03	DATE LAST REV.:	DRAFT. CHCK. BY:	INITIATOR: J. RAGSDALE	DWG. NO.:\796887es.744
DRAWN BY: D. BOMAR	DRAWN BY:	ENGR. CHCK. BY: S. MORAN	PROJ. MGR.: J. YACOUB	PROJ. NO.: 796887



LEGEND:

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 25 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- TRENCH
- BERM
- ROW OF WOOD FRAMED TARGET BOXES
- FENCE

SCALE
0 300 600 FEET

FIGURE 1-2
SITE MAP
FORMER CHOCCOLOCCO CORRIDOR RANGES
PARCELS 94Q, 95Q, 96Q, 97Q AND ASSOCIATED PARCELS

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

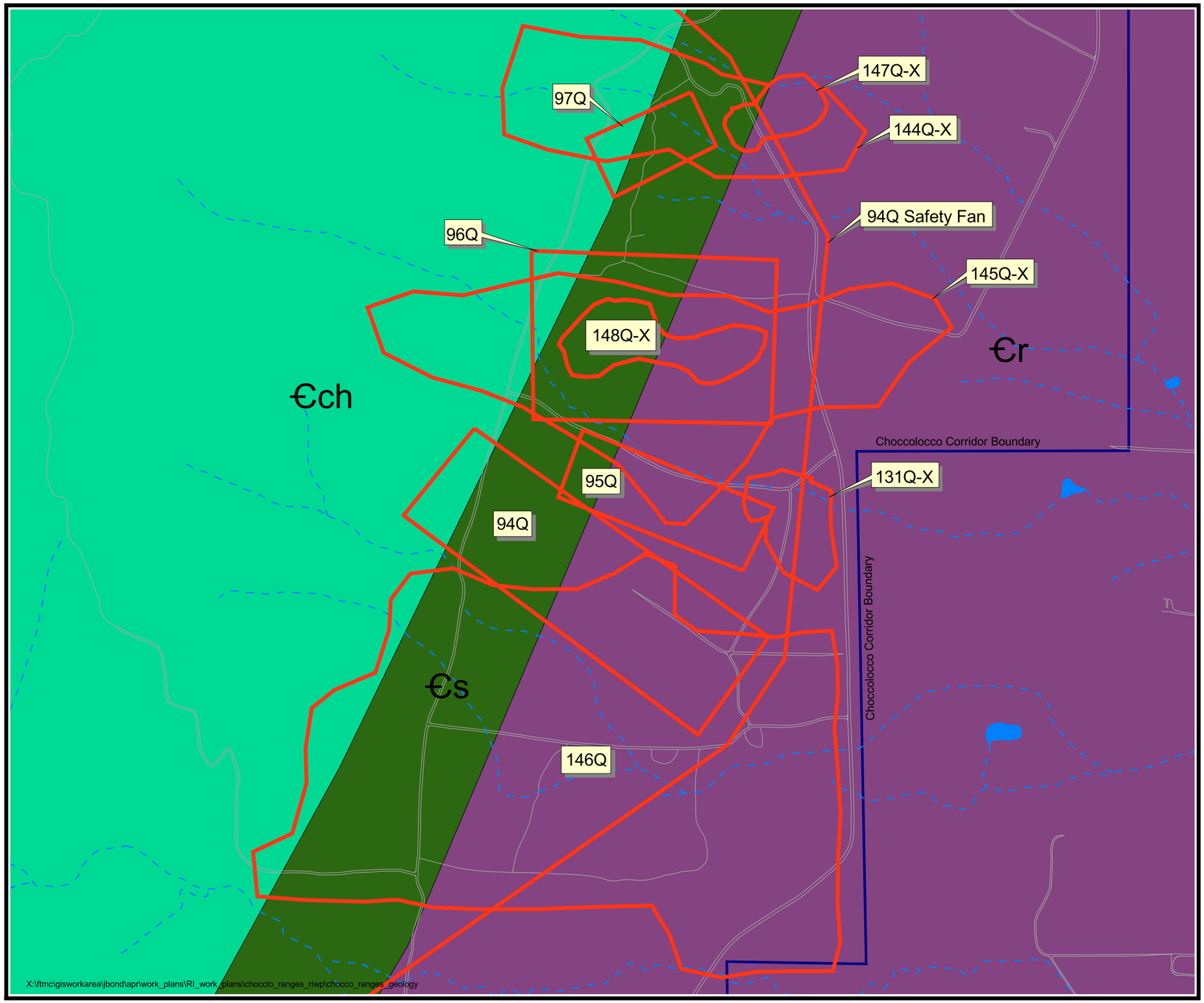


Figure 1-3

Site Geologic Map

Former
Choccolocco Corridor Ranges
Parcels 94Q, 95Q, 96Q, 97Q,
and Associated Parcels,
Fort McClellan, Alabama

Legend

- FTMC Boundary
- Parcel Boundary
- Roads
- Surface Drainage Feature (dashed where intermittent)
- Surface Water Feature (may be ephemeral)

Geology

- €c — Cambrian - Rome Formation
- €s — Cambrian - Shady Dolomite
- €ch — Cambrian - Chilhowee Group, undifferentiated

500 0 500 Feet

NAD83 State Plane Coordinates

N

Shaw™ Shaw Environmental, Inc.

U.S. Army Corps of Engineers Mobile District

Contract No. DACA21-96-D-0018

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N 1,179,100
E 692,200
E 697,500
N 1,172,300

PARCEL 143Q
PARCEL 144Q-X
PARCEL 147Q-X
PARCEL 97Q
PARCEL 148Q-X
PARCEL 96Q
PARCEL 145Q-X
PARCEL 94Q
PARCEL 131Q-X
PARCEL 95Q
PARCEL 146Q
PARCEL 94Q RANGE FAN

HR-143Q-MW01 (792.29)
HR-143Q-MW02 (799.20)
HR-144Q-MW01 (DRY)
HR-147Q-MW01 (775.70)
HR-147Q-MW02 (774.66)
HR-96Q-MW01 (807.34)
HR-148Q-MW01 (806.24)
HR-145Q-MW02 (753.15)
HR-95Q-MW01 (810.75)
HR-95Q-MW02 (800.78)
HR-145Q-MW01 (792.79)
HR-95Q-MW03 (765.83)
HR-131Q-MW01 (717.30)
HR-94Q-MW01 (881.18)
HR-94Q-MW02 (776.74)
HR-146Q-MW02 (804.48)
HR-146Q-MW01 (814.97)

G.W. FLOW

CALHOUN COUNTY ROAD 55

LEGEND:

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 25 FOOT)
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (755.71) GROUNDWATER ELEVATION (FT MSL) (OCTOBER 18, 2002)
- G.W. FLOW GROUNDWATER FLOW DIRECTION
- TREES / TREELINE
- PARCEL BOUNDARY
- INVESTIGATED BOUNDARY
- SURFACE DRAINAGE / CREEK
- TRENCH
- BERM
- ROW OF WOOD FRAMED TARGET BOXES
- FENCE
- MONITORING WELL / GROUNDWATER, SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

FIGURE 1-4
GROUNDWATER ELEVATION MAP
FORMER CHOCCOLOCCO CORRIDOR RANGES
PARCELS 94Q, 95Q, 96Q, 97Q AND ASSOCIATED PARCELS

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

SCALE
0 300 600 FEET

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N

PARCEL 144Q-X
PARCEL 147Q-X
PARCEL 97Q
PARCEL 96Q
PARCEL 148Q-X
PARCEL 145Q-X
PARCEL 131Q-X
PARCEL 95Q
PARCEL 94Q
PARCEL 146Q
PARCEL 94Q RANGE FAN

HR-144Q-DEP01
HR-144Q-DEP02
HR-144Q-DEP03
HR-144Q-DEP04
HR-144Q-GP01
HR-144Q-GP02
HR-144Q-GP03
HR-144Q-GP04
HR-144Q-MW01
HR-147Q-DEP01
HR-147Q-DEP02
HR-147Q-GP01
HR-147Q-MW01
HR-147Q-MW02
HR-97Q-DEP01
HR-97Q-GP01
HR-97Q-GP02
HR-97Q-GP03
HR-97Q-GP04
HR-97Q-GP05
HR-97Q-GP06
HR-97Q-GP07
HR-97Q-GP08
HR-97Q-GP09
HR-97Q-MW01
HR-96Q-DEP01
HR-96Q-GP01
HR-96Q-GP02
HR-96Q-GP03
HR-96Q-GP04
HR-96Q-MW01
HR-96Q-MW01(SS)
HR-145Q-GP01
HR-145Q-DEP01
HR-145Q-GP02
HR-145Q-GP03
HR-145Q-MW01
HR-145Q-MW02
HR-148Q-GP01
HR-148Q-GP02
HR-148Q-GP03
HR-148Q-MW01
HR-95Q-SW/SD01
HR-95Q-GP01
HR-95Q-GP02
HR-95Q-GP03
HR-95Q-GP04
HR-95Q-GP05
HR-95Q-GP06
HR-95Q-GP07
HR-95Q-GP08
HR-95Q-GP09
HR-95Q-DEP01
HR-95Q-DEP02
HR-95Q-MW01
HR-95Q-MW02
HR-95Q-MW03
HR-131Q-SW/SD01
HR-131Q-GP01
HR-131Q-GP02
HR-131Q-MW01
HR-131Q-DEP01
HR-94Q-GP01
HR-94Q-GP02
HR-94Q-GP03
HR-94Q-GP04
HR-94Q-GP05
HR-94Q-GP06
HR-94Q-GP07
HR-94Q-GP08
HR-94Q-GP09
HR-94Q-GP10
HR-94Q-MW01
HR-94Q-MW02
HR-146Q-DEP01
HR-146Q-DEP02
HR-146Q-DEP03
HR-146Q-DEP04
HR-146Q-DEP05
HR-146Q-DEP06
HR-146Q-GP01
HR-146Q-GP02
HR-146Q-GP03
HR-146Q-GP04
HR-146Q-GP05
HR-146Q-GP06
HR-146Q-GP07
HR-146Q-GP08
HR-146Q-GP09
HR-146Q-GP10
HR-146Q-GP11
HR-146Q-MW01
HR-146Q-MW02

CHOCCOLOCCO CORRIDOR LEASE BOUNDARY
CALHOUN COUNTY ROAD 55

LEGEND:
- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- TOPOGRAPHIC CONTOURS
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- TRENCH
- BERM
- ROW OF WOOD FRAMED TARGET BOXES
- FENCE
- UTILITY POLE
- EXISTING SURFACE WATER/SEDIMENT SAMPLE LOCATION
- EXISTING SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- EXISTING DEPOSITIONAL SOIL SAMPLE LOCATION
- EXISTING RESIDUUM MONITORING WELL LOCATION

SCALE
0 200 400 FEET

FIGURE 2-1
EXISTING SAMPLE LOCATION MAP
FORMER CHOCCOLOCCO CORRIDOR RANGES
PARCELS 94Q, 95Q, 96Q, 97Q AND ASSOCIATED PARCELS

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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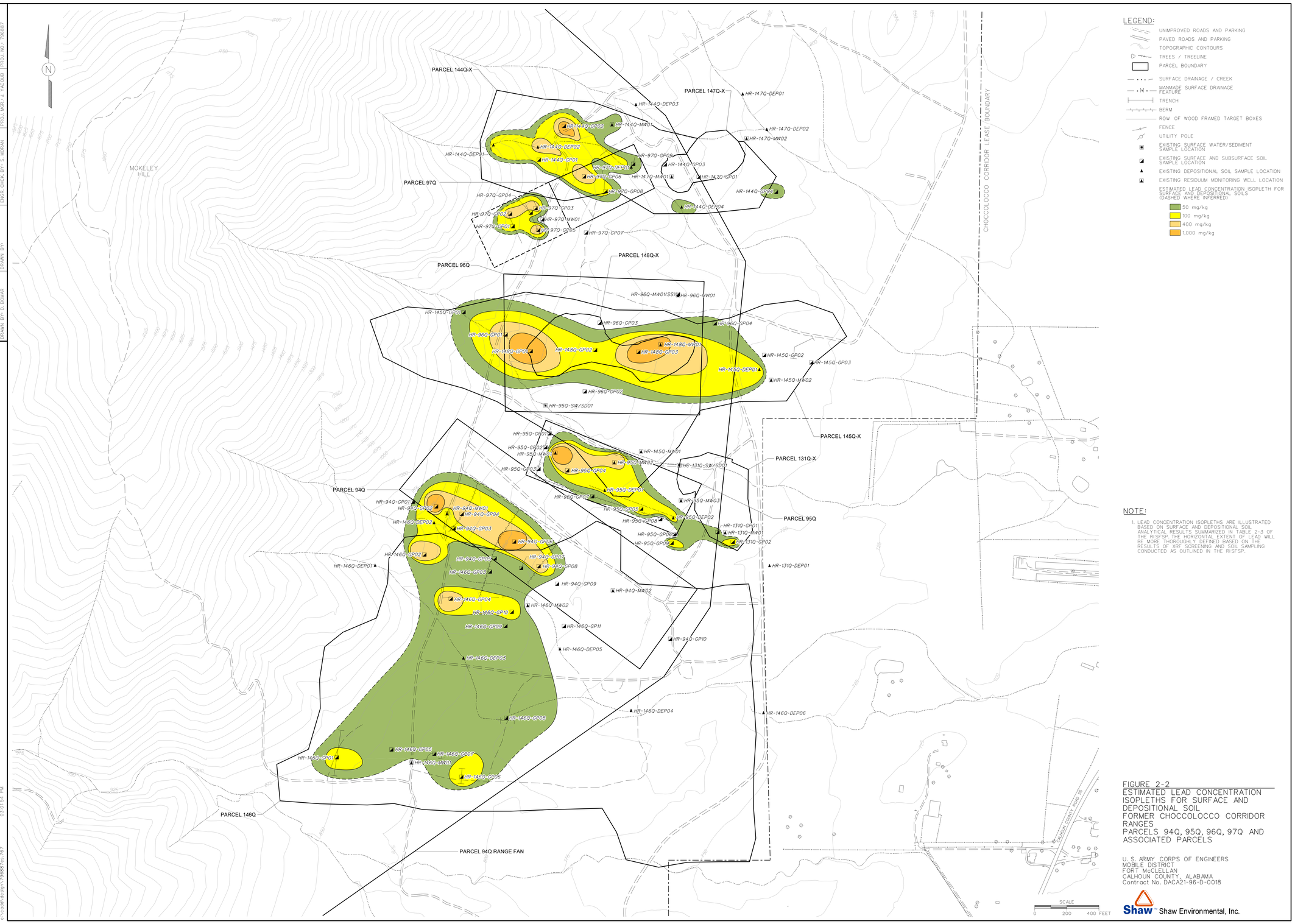

LEGEND:

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- TOPOGRAPHIC CONTOURS
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- TRENCH
- BERM
- ROW OF WOOD FRAMED TARGET BOXES
- FENCE
- UTILITY POLE
- EXISTING SURFACE WATER/SEDIMENT SAMPLE LOCATION
- EXISTING SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- EXISTING DEPOSITIONAL SOIL SAMPLE LOCATION
- EXISTING RESIDUUM MONITORING WELL LOCATION
- ESTIMATED LEAD CONCENTRATION ISOPLETH FOR SURFACE AND DEPOSITIONAL SOILS (DASHED WHERE INFERRED)
  - 50 mg/kg
  - 100 mg/kg
  - 400 mg/kg
  - 1,000 mg/kg

NOTE:

1. LEAD CONCENTRATION ISOPLETHS ARE ILLUSTRATED BASED ON SURFACE AND DEPOSITIONAL SOIL ANALYTICAL RESULTS SUMMARIZED IN TABLE 2-3 OF THE RISFSP. THE HORIZONTAL EXTENT OF LEAD WILL BE MORE THOROUGHLY DEFINED BASED ON THE RESULTS OF XRF SCREENING AND SOIL SAMPLING CONDUCTED AS OUTLINED IN THE RISFSP.

FIGURE 2-2
ESTIMATED LEAD CONCENTRATION ISOPLETHS FOR SURFACE AND DEPOSITIONAL SOIL
FORMER CHOCCOLOCCO CORRIDOR RANGES
PARCELS 94Q, 95Q, 96Q, 97Q AND ASSOCIATED PARCELS

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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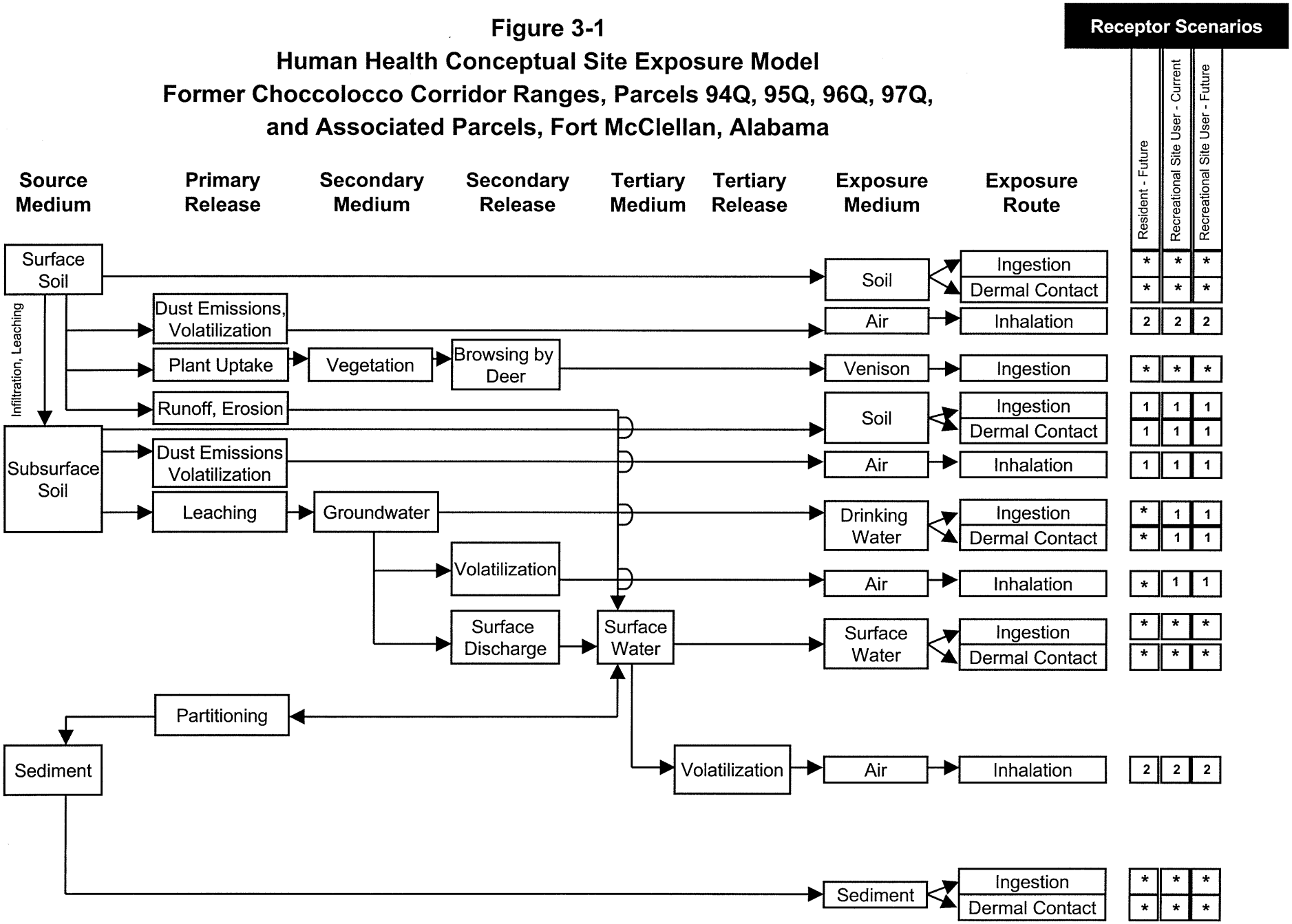
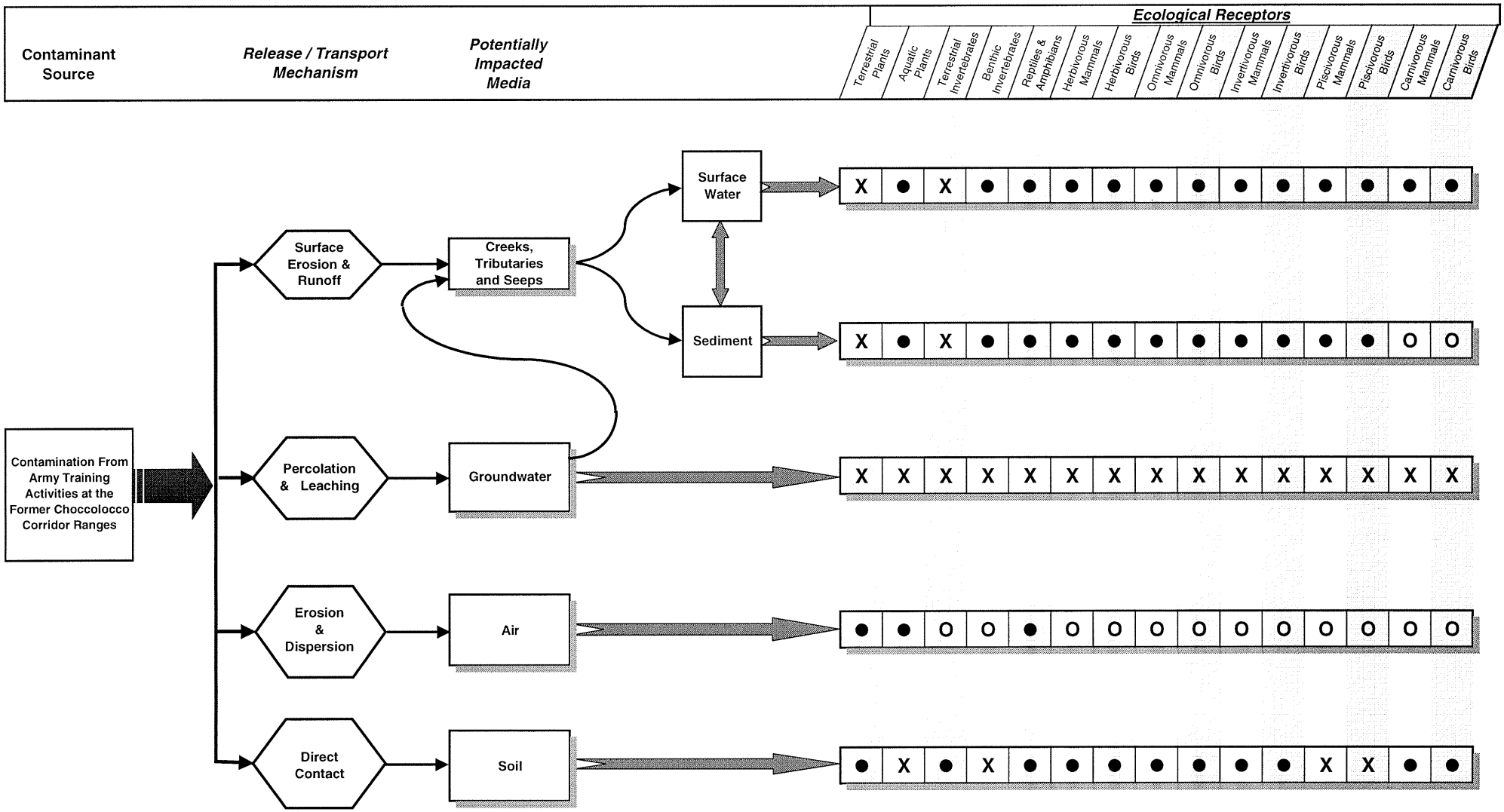
Figure 3-1
Human Health Conceptual Site Exposure Model
Former Choccolocco Corridor Ranges, Parcels 94Q, 95Q, 96Q, 97Q, and Associated Parcels, Fort McClellan, Alabama



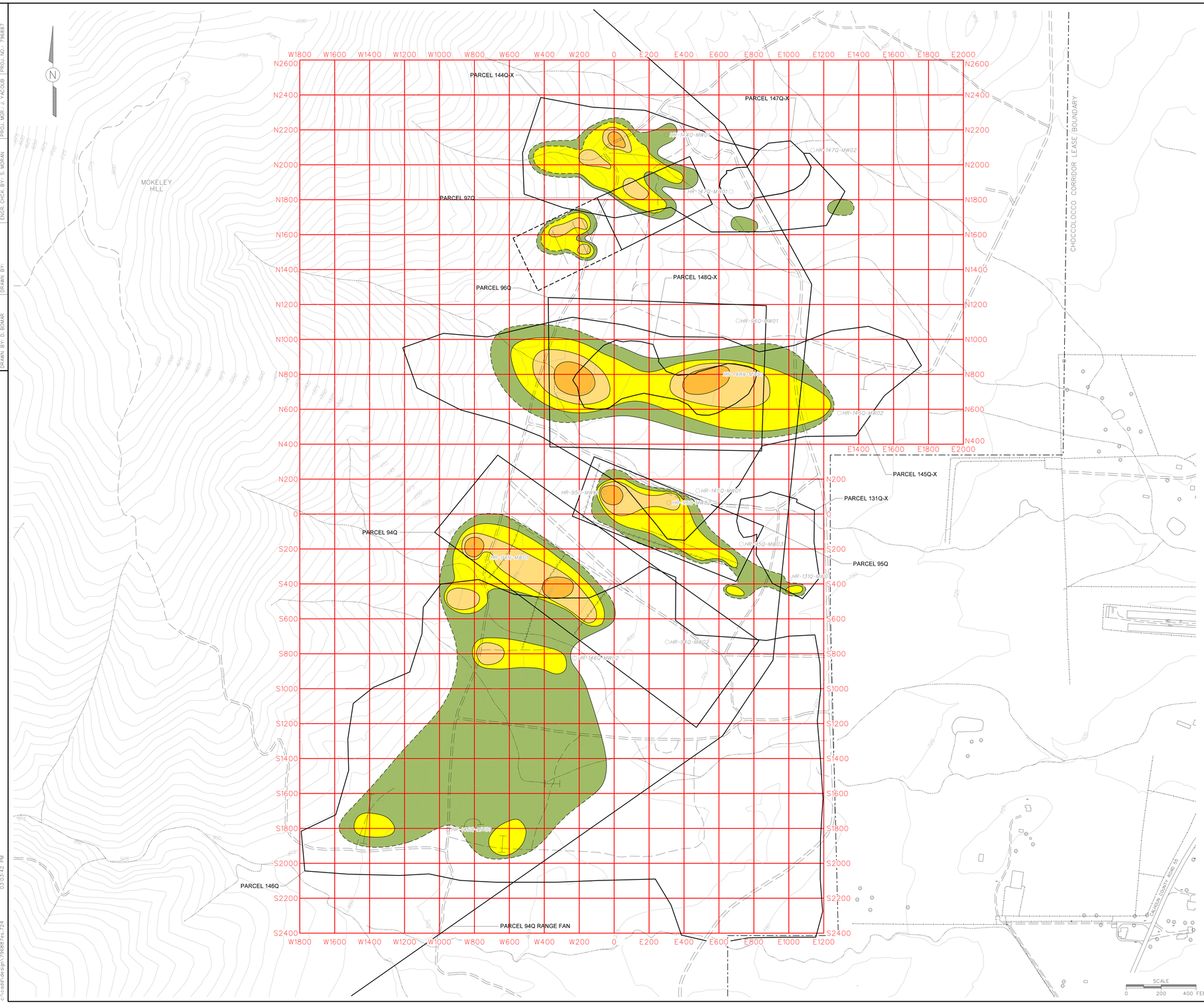
* = Complete exposure pathway evaluated in the streamlined risk assessment.
1 = Incomplete exposure pathway.
2 = Although theoretically complete, this pathway is judged to be insignificant and is not evaluated in the streamlined risk assessment.

Figure 3-2
Ecological Conceptual Site Exposure Model
Former Choccolocco Corridor Ranges, Parcels 94Q, 95Q, 96Q, 97Q, and Associated Parcels
Fort McClellan, Calhoun County, Alabama



Key To Potential Exposure Routes

●	- Potentially complete exposure pathway
X	- Incomplete exposure pathway
O	- Potentially complete exposure pathway but insignificant



LEGEND:

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- TOPOGRAPHIC CONTOURS
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- TRENCH
- BERM
- ROW OF WOOD FRAMED TARGET BOXES
- FENCE
- UTILITY POLE
- EXISTING RESIDUUM MONITORING WELL LOCATION
- XRF SAMPLE LOCATION GRID (200 ft x 200 ft) LOCATION OF HR-148Q-MW01 EQUALS GRID NODE N1175583, E694829. XRF SURFACE SOIL SAMPLE LOCATION WILL BE COLLECTED AT EACH GRID NODE
- ESTIMATED LEAD CONCENTRATION ISOPLETH FOR SURFACE AND DEPOSITIONAL SOILS (DASHED WHERE INFERRED)
  - 50 mg/kg
  - 100 mg/kg
  - 400 mg/kg
  - 1,000 mg/kg

NOTES:

1. GRID NODES ARE LABELED BY DISTANCE AND DIRECTION FROM APPROXIMATE CENTER POINT OF GRID (e.g., N200, W200) AND WILL BE LOCATED BY ACTUAL COORDINATES OF THE U.S. STATE PLANE COORDINATE SYSTEM, ALABAMA EAST ZONE, NORTH AMERICAN DATUM OF 1983.
2. LEAD CONCENTRATION ISOPLETHS ARE ILLUSTRATED BASED ON SURFACE AND DEPOSITIONAL SOIL ANALYTICAL RESULTS SUMMARIZED IN TABLE 2-3 OF THE RISFSP. THE HORIZONTAL EXTENT OF LEAD WILL BE MORE THOROUGHLY DEFINED BASED ON THE RESULTS OF XRF SCREENING AND SOIL SAMPLING CONDUCTED AS OUTLINED IN THE RISFSP.

FIGURE 4-1
PROPOSED XRF SAMPLE LOCATION GRID MAP
FORMER CHOCCOLOCCO CORRIDOR RANGES
PARCELS 94Q, 95Q, 96Q, 97Q AND ASSOCIATED PARCELS

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
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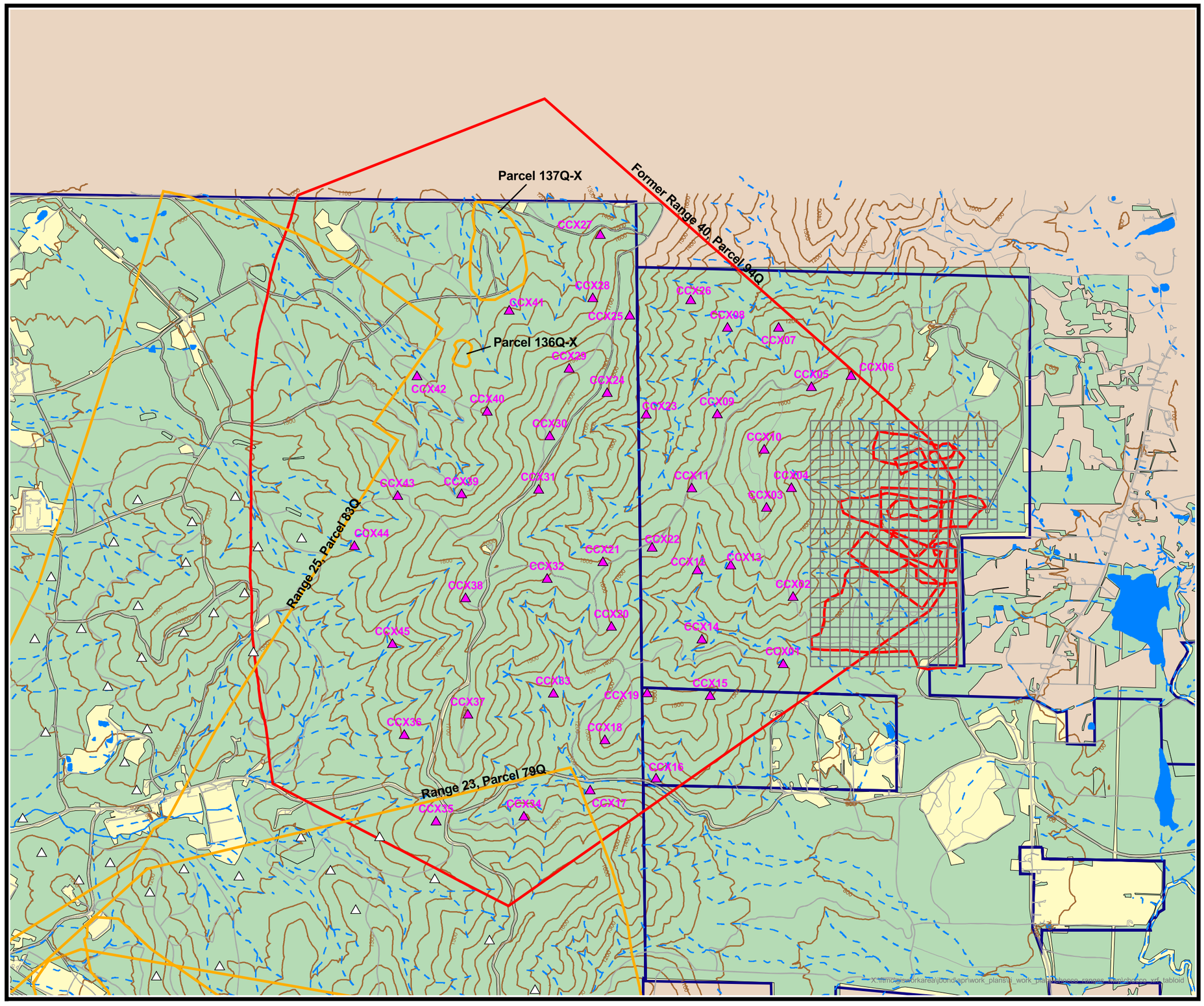
Figure 4-2

Proposed Range Fan XRF Sample Locations

Former
Choccolocco Corridor Ranges,
Parcels 94Q, 95Q, 96Q, 97Q,
and Associated Parcels,
Fort McClellan, Alabama



Legend

- FTMC Boundary
- Choccolocco Corridor Parcel Boundary and Range Fan
- Parcel Boundary/Range Fan
- Roads
- Surface Drainage Feature (dashed where intermittent)
- Topographic Contour (100-foot interval)
- Existing XRF Sample Location
- Proposed XRF Sample Location
- Surface Water Feature (may be ephemeral)
- Wooded (on post)

2000 0 2000 Feet

NAD83 State Plane Coordinates

N

Shaw™ Shaw Environmental, Inc.

U.S. Army Corps of Engineers Mobile District

Contract No. DACA21-96-D-0018

LEGEND:

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- TOPOGRAPHIC CONTOURS
- TREES / TREELINE
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- TRENCH
- BERM
- ROW OF WOOD FRAMED TARGET BOXES
- FENCE
- UTILITY POLE
- PROPOSED SURFACE WATER/SEDIMENT SAMPLE LOCATION
- PROPOSED SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- PROPOSED GROUNDWATER, SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- EXISTING RESIDUUM MONITORING WELL LOCATION (TO BE RESAMPLED)
- ESTIMATED LEAD CONCENTRATION ISOPLETH FOR SURFACE AND DEPOSITIONAL SOILS (DASHED WHERE INFERRED)
  - 50 mg/kg
  - 100 mg/kg
  - 400 mg/kg
  - 1,000 mg/kg

NOTE:

1. LEAD CONCENTRATION ISOPLETHS ARE ILLUSTRATED BASED ON SURFACE AND DEPOSITIONAL SOIL ANALYTICAL RESULTS SUMMARIZED IN TABLE 2-3 OF THE RISFSP. THE HORIZONTAL EXTENT OF LEAD WILL BE MORE THOROUGHLY DEFINED BASED ON THE RESULTS OF XRF SCREENING AND SOIL SAMPLING CONDUCTED AS OUTLINED IN THE RISFSP.

FIGURE 4-3
PROPOSED SAMPLE LOCATION MAP
FORMER CHOCCOLOCCO CORRIDOR RANGES
PARCELS 94Q, 95Q, 96Q, 97Q AND ASSOCIATED PARCELS

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

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