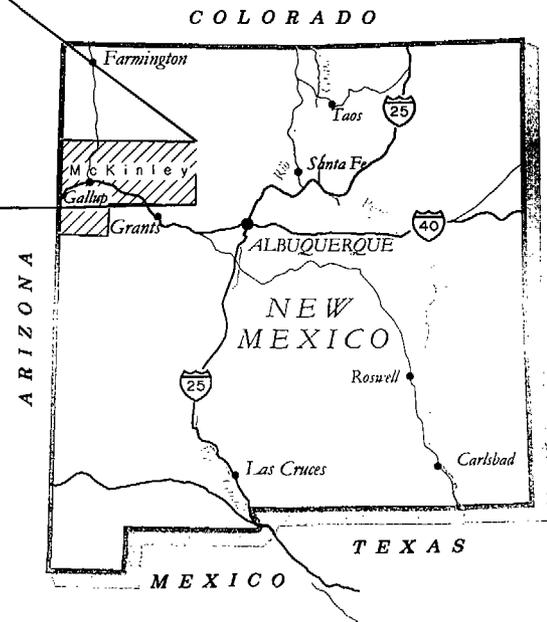
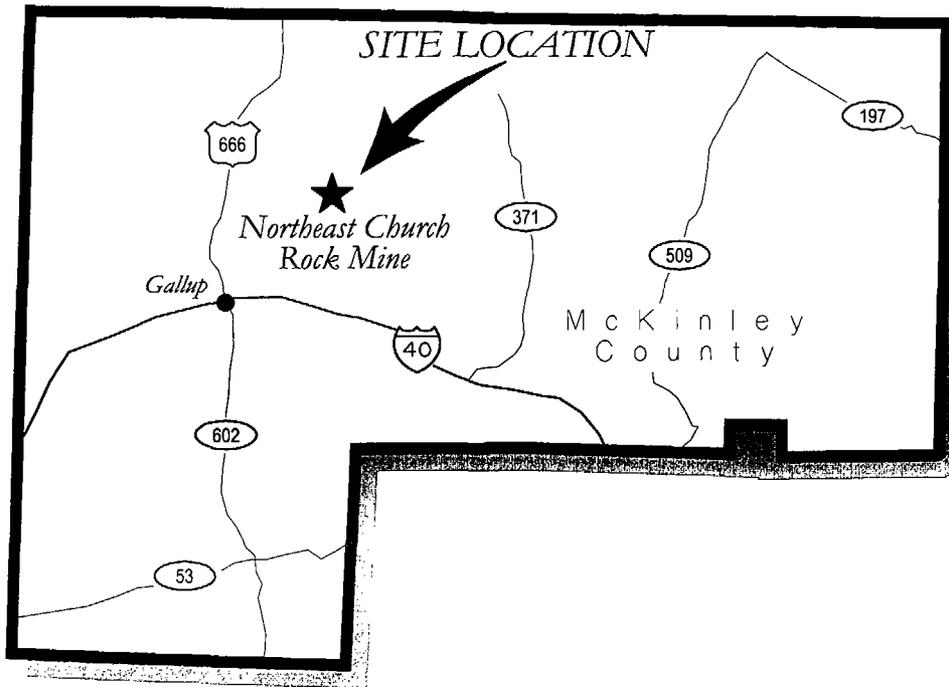

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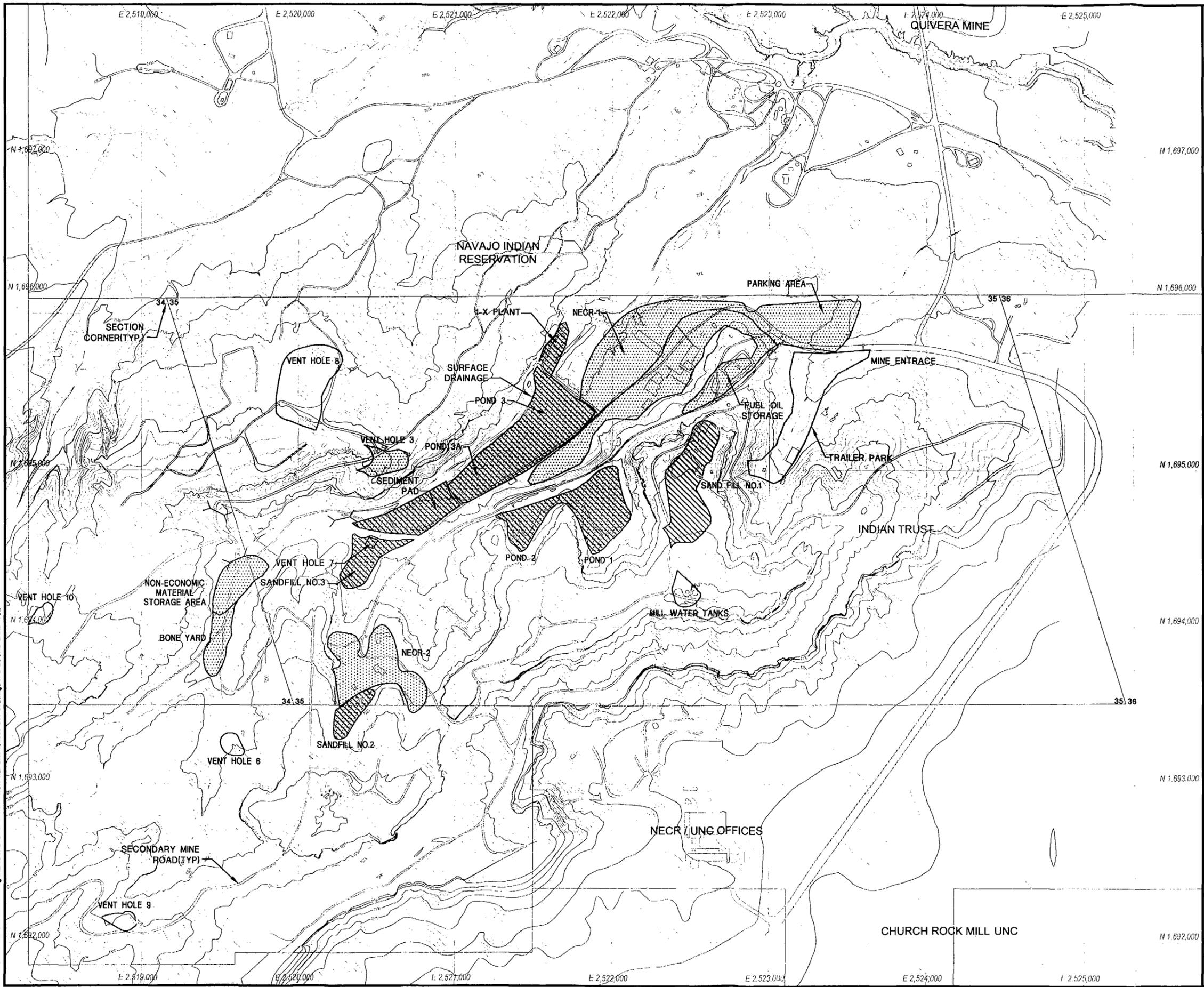


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			PROJECT No.: 1005146		
			AutoCAD FILE: 1 SITE LOCATION.dwg		
			SCALE:	FIGURE No:	
			Not to Scale	1-1	

UNC REMOVAL SITE EVALUATION REPORT



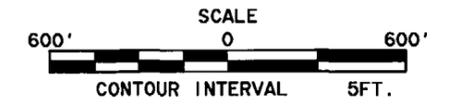
SITE LOCATION



LEGEND

- ROADS
- MINE PERMIT AREA
- FORMER NRC REGULATED AREA
- LAND OWNERSHIP - NAVAJO INDIAN RESERVATION
- LAND OWNERSHIP - UNC
- LAND OWNERSHIP - INDIAN TRUST

- NOTES:
1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
 2. NOT ALL AREAS IDENTIFIED DURING THE RSE ARE SHOWN ON THIS FIGURE.
 3. THE AREA BOUNDARIES SHOWN HERE ARE THE ORIGINAL BOUNDARIES, WHICH WERE ADJUSTED SLIGHTLY DURING THE RSE. (SEE SUBSEQUENT FIGURES)



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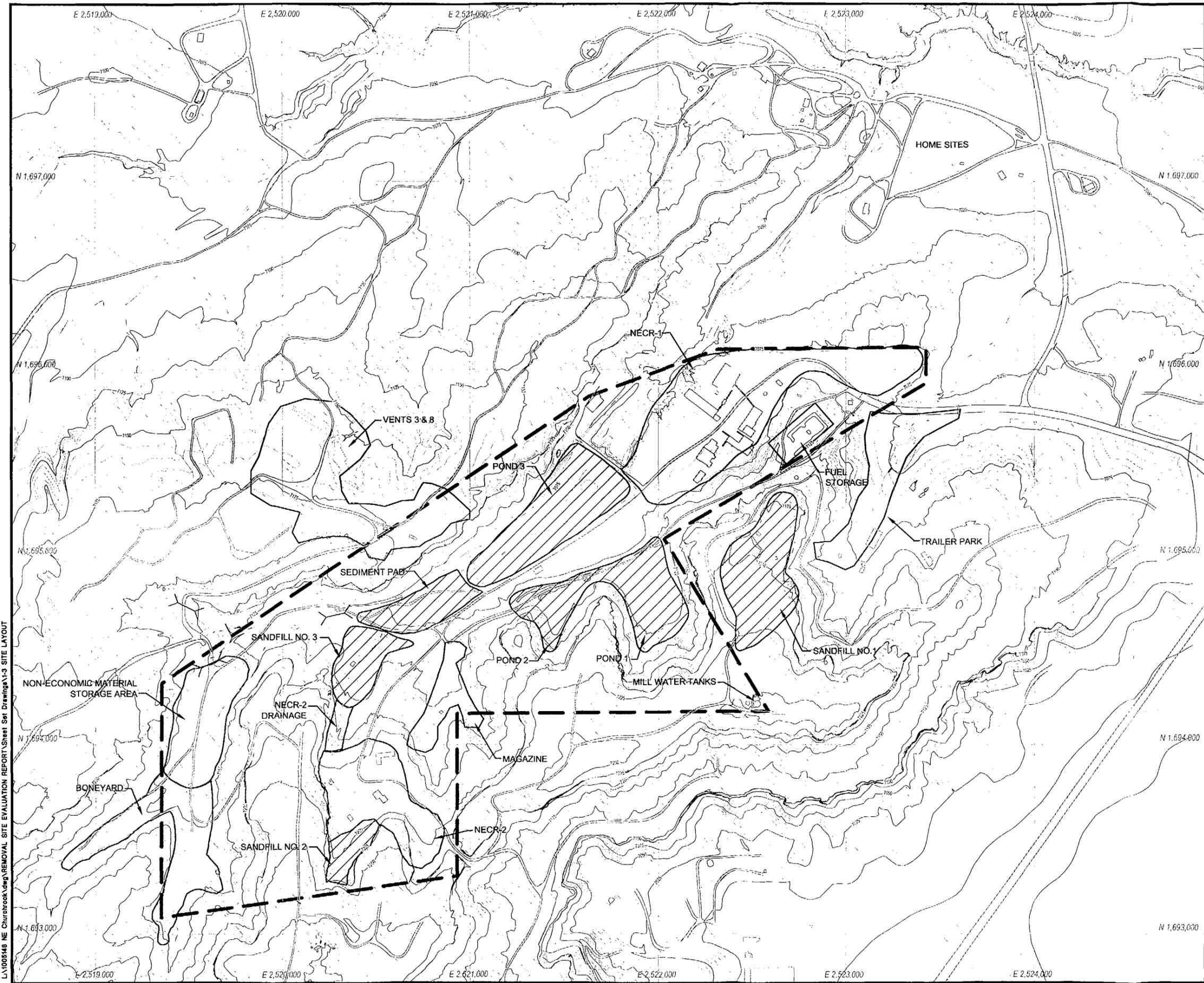
PROJECT:
REMOVAL SITE EVALUATION REPORT

DRAWING TITLE:
LOCAL LAND USE



Sheet 1 Of 1 Sheets
SCALE: As Shown
FIGURE No. 1-2

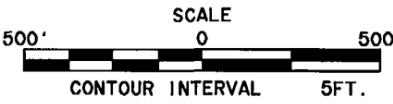
L:\100546 NE Churchrock.dwg\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\1-2 LOCAL LAND USE



LEGEND

- PERMIT BOUNDARY
- FACILITY OR FEATURE BOUNDARY (Approx.)
- NRC REGULATED AREAS RECLAIMED UNDER JURISDICTION OF NRC RADIOACTIVE MATERIAL LICENSE SUA-1475.
- CULVERT
- STRUCTURE

NOTES:
 1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.



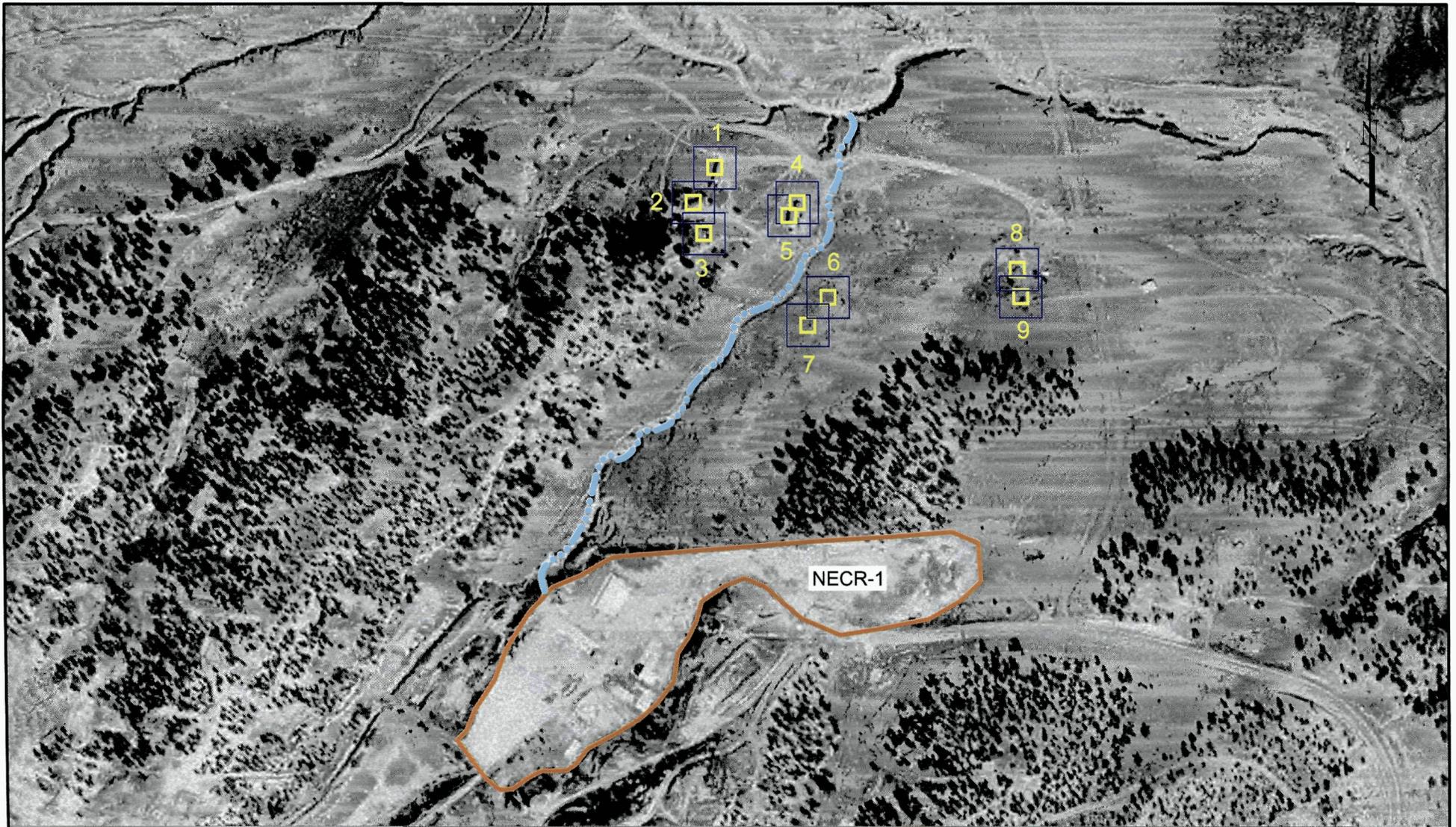
L:\00548 NE Churchrock\mg\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\1-3 SITE LAYOUT

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0	Issued For Final	09/07	T.Leeson	C.Fowler	T.Leeson

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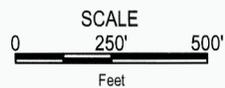
PROJECT: **REMOVAL SITE EVALUATION REPORT**
 DRAWING TITLE: **SITE LAYOUT**

MWH Sheet 1 of 1 Sheets
 SCALE: As Shown FIGURE No. 1-3



LEGEND

-  UNNAMED ARROYO
-  APPROXIMATE SURVEY BOUNDARY
-  SAMPLING AREAS
-  HOME SITES
-  HOME SITE NUMBER



NOTE: THE UNNAMED ARROYO CONTINUES SOUTHWEST ALONG THE NORTHWEST SIDE OF THE MINE SITE.

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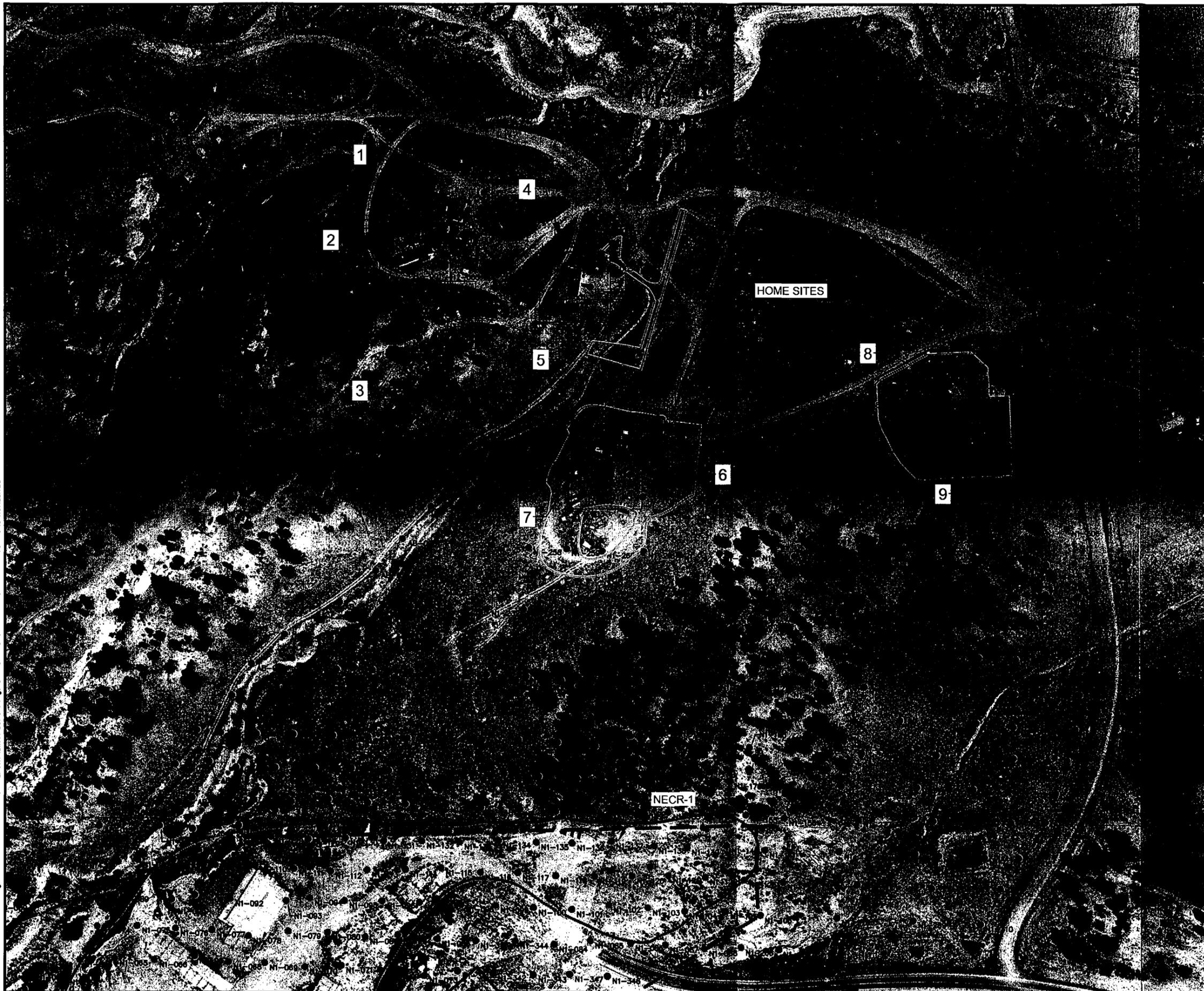
PROJECT No: 1009148
AutoCAD FILE: UNC RSEB 1-4
SCALE: As Shown
FIGURE No: 1-4



UNC REMOVAL SITE EVALUATION REPORT

LOCATIONS OF HOME SITES

LY:0006146 NE Chirahook Mining Removal Site Evaluation Report Sheet Set Drawings 2-1-1 Static Gamma Measurement Locations Homesites

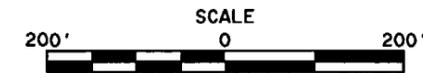


LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- GAMMA PRIMARY LOCATION
- GAMMA STEP-OUT LOCATION
- GAMMA HOMESITE LOCATION
- HOME SITE 0.5 ACRE SURVEY AREA BOUNDARY
- HOME SITE NUMBER
- EPA REMOVAL ACTION BOUNDARY (APPROXIMATE)

NOTES:

- SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
- LOCATION IDs ARE ABBREVIATED TO PREVENT OVERLAPPING LABELS.
- STATIC GAMMA MEASUREMENT LOCATIONS FOR HOME SITES 4,6,7,8,9 WERE ASSUMED TO HAVE BEEN EXCAVATED BY THE EPA (SEE APPENDIX D).
- EPA REMOVAL ACTION BOUNDARIES ARE BASED ON HAND-SKETCH MAPS AND ARE OF QUESTIONABLE ACCURACY.



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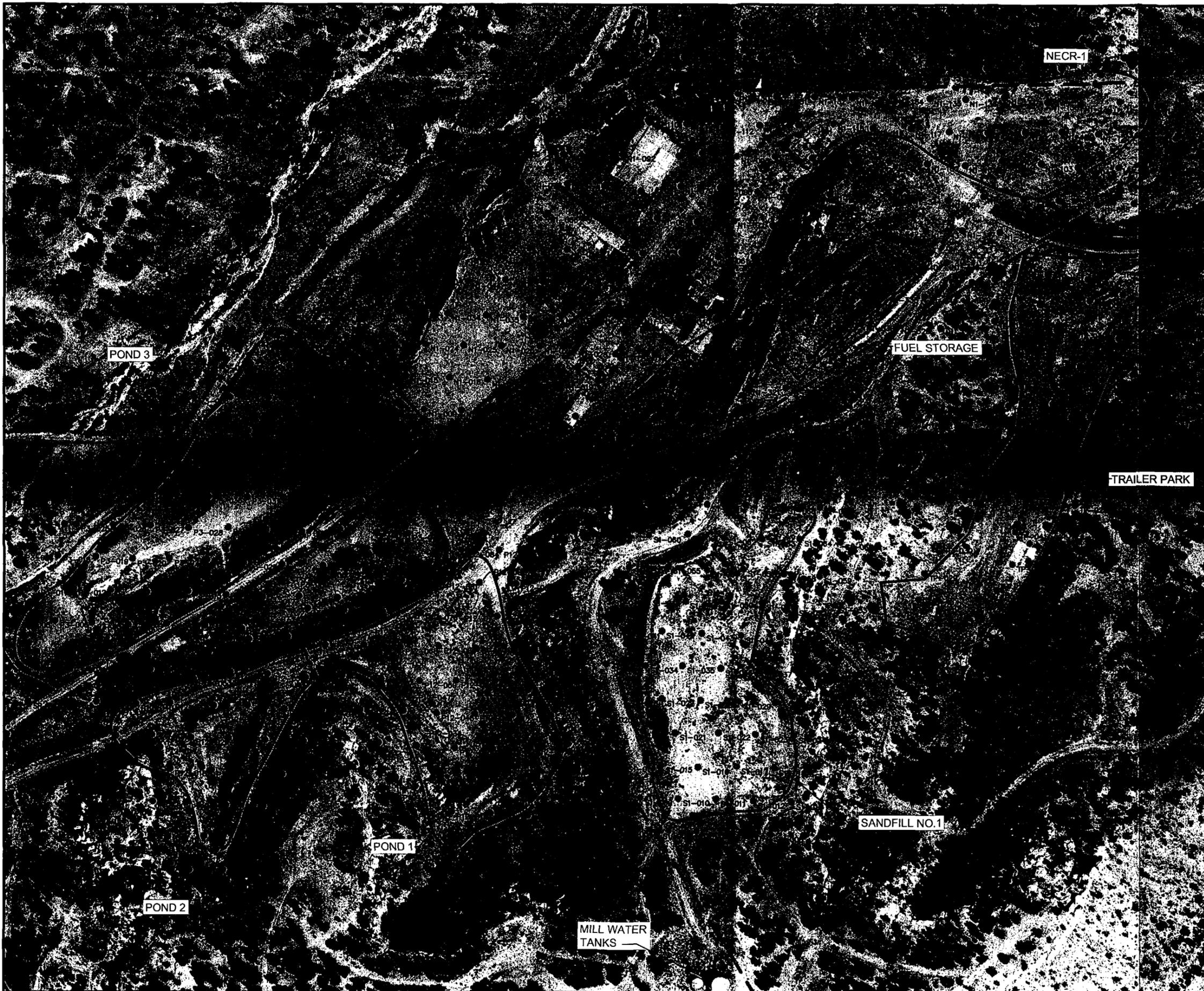
PROJECT:
REMOVAL SITE EVALUATION REPORT

DRAWING TITLE:
STATIC GAMMA MEASUREMENT LOCATIONS



Sheet 1 Of 4 Sheets
SCALE: As Shown
FIGURE No. 2-1

L:\100548 NE Chertrock\mg\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\2-1-2 STATIC GAMMA MEASUREMENT LOCATIONS

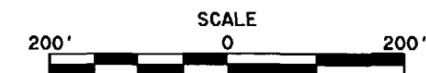


LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- GAMMA PRIMARY LOCATION
- GAMMA STEP-OUT LOCATION

NOTES:

1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
2. LOCATION IDs ARE ABBREVIATED TO PREVENT OVERLAPPING LABELS.



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PROJECT:
REMOVAL SITE EVALUATION REPORT

DRAWING TITLE:
STATIC GAMMA MEASUREMENT LOCATIONS



Sheet 2 Of 4 Sheets
SCALE: As Shown
FIGURE No. 2-1

L:\100548 NE Chertbrook\img\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\2-1-3 STATIC GAMMA MEASUREMENT LOCATIONS

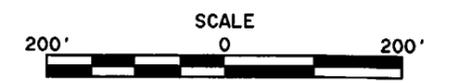


LEGEND

- — PERMIT BOUNDARY
- — SURVEY AREA BOUNDARY
- — MINE FEATURE BOUNDARY
- GAMMA PRIMARY LOCATION
- GAMMA STEP-OUT LOCATION

NOTES:

1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
2. LOCATION IDs ARE ABBREVIATED TO PREVENT OVERLAPPING LABELS.



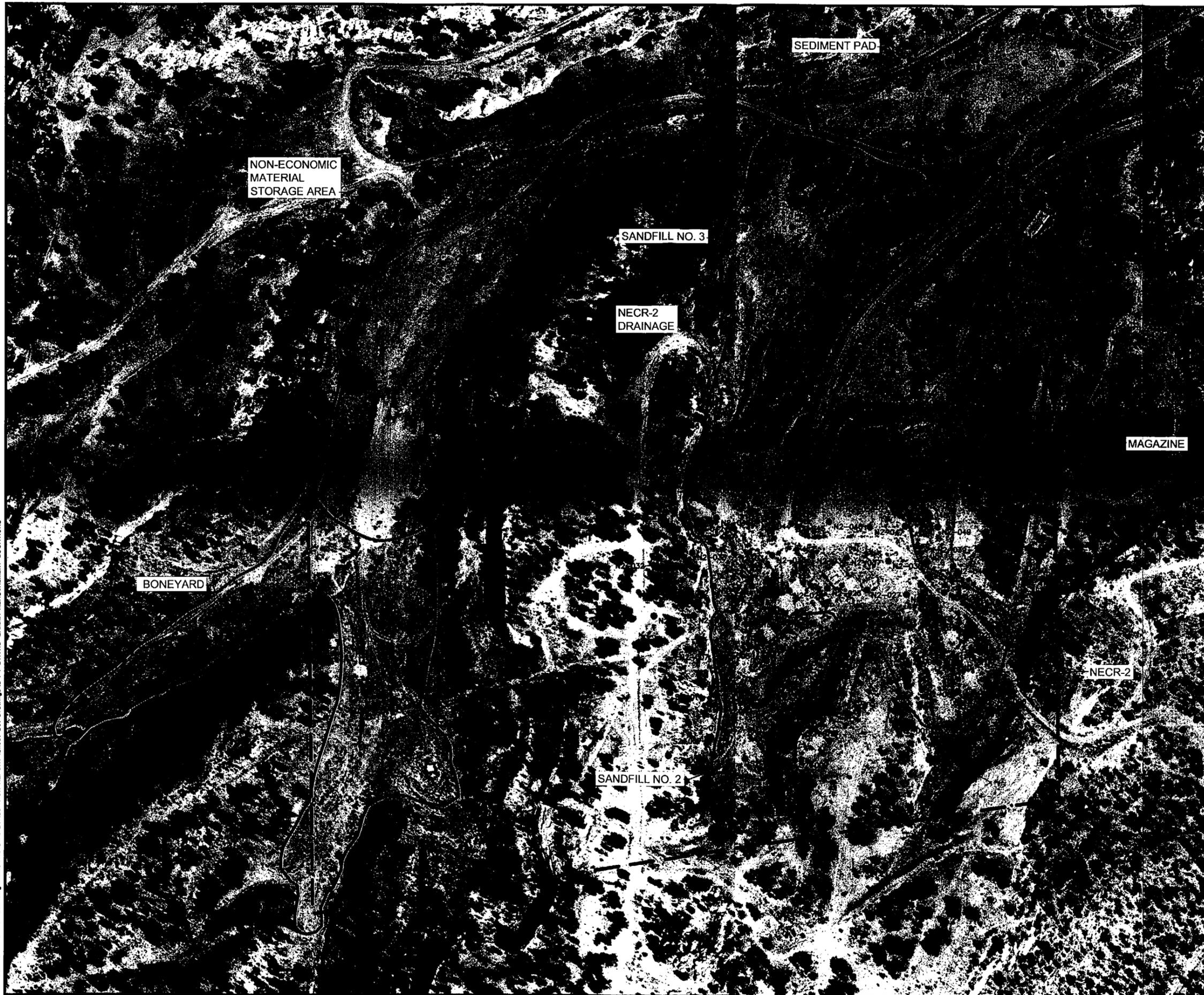
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PROJECT: **REMOVAL SITE EVALUATION REPORT**
DRAWING TITLE: **STATIC GAMMA MEASUREMENT LOCATIONS**

MWH Sheet 3 Of 4 Sheets
SCALE: As Shown FIGURE No. 2-1

L:\100548 NE Chiricahua\Removal Site Evaluation Report\Sheet Set Drawings\2-1-4 STATIC GAMMA MEASUREMENT LOCATIONS

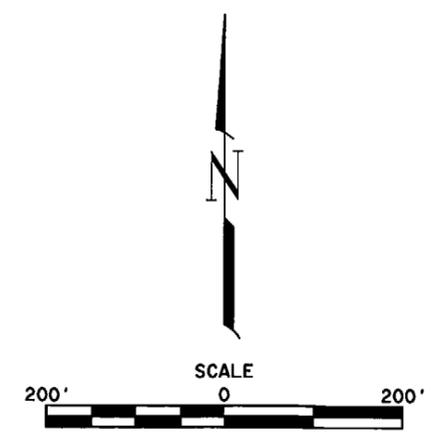


LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- GAMMA PRIMARY LOCATION
- GAMMA STEP-OUT LOCATION

NOTES:

1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
2. LOCATION IDs ARE ABBREVIATED TO PREVENT OVERLAPPING LABELS.



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REMOVAL SITE EVALUATION REPORT
DRAWING TITLE:
STATIC GAMMA MEASUREMENT LOCATIONS

MWH Sheet 4 Of 4 Sheets

SCALE: FIGURE No.
As Shown 2-1

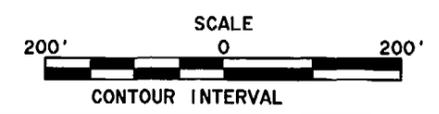
L:\005148 NE Chiricahua\Removal Site Evaluation Report\Sheet Set Drawings\2-2-1 Surface Soil Sample Locations Mine Site



LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- SURFACE SOIL SAMPLE LOCATION
- CORRELATION SAMPLE LOCATION
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

NOTES:
 1. LOCATION IDs ARE ABBREVIATED TO PREVENT OVERLAPPING LABELS.
 2. ADDITIONAL SAMPLE LOCATIONS ASSOCIATED WITH NECR-1 AND LOCATED TO THE NORTH ARE SHOWN ON FIGURE 2-3.



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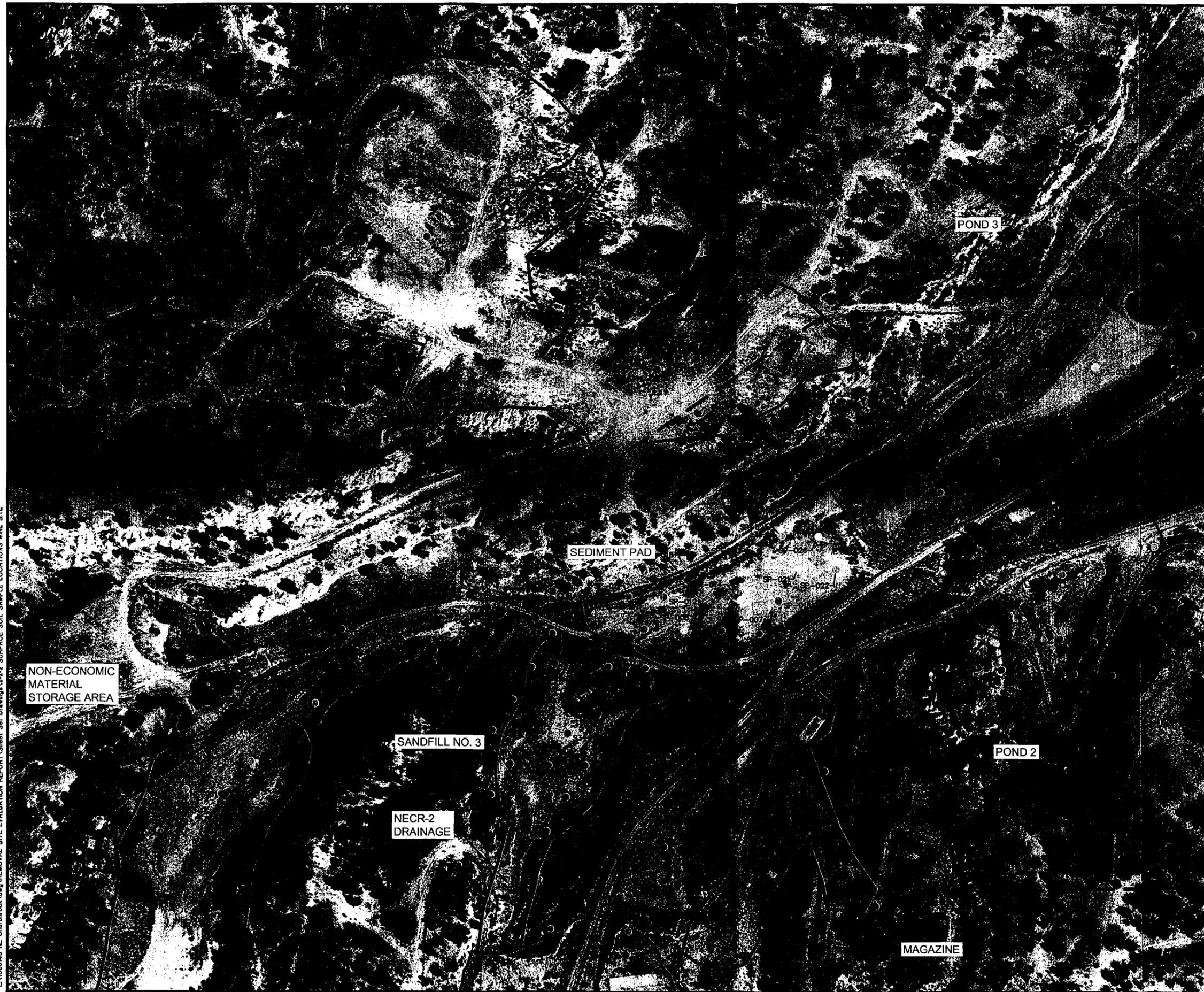
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PROJECT:
REMOVAL SITE EVALUATION REPORT
 DRAWING TITLE:
SURFACE SOIL SAMPLE LOCATIONS MINE SITE



Sheet 1 Of 3 Sheets
 SCALE: As Shown
 FIGURE No. 2-2

L:\006148 NE Chaco Creek and Removal Site Evaluation Report\Sheet Set Drawings\2-2 SURFACE SOIL SAMPLE LOCATIONS MINE SITE



LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- SURFACE SOIL SAMPLE LOCATION
- CORRELATION SAMPLE LOCATION
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

NOTES:
 1. LOCATION IDs ARE ABBREVIATED TO PREVENT OVERLAPPING LABELS.
 2. ADDITIONAL SAMPLE LOCATIONS ASSOCIATED WITH NECR-1 AND LOCATED TO THE NORTH ARE SHOWN ON FIGURE 2-3.



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REMOVAL SITE EVALUATION REPORT
 DRAWING TITLE:
SURFACE SOIL SAMPLE LOCATIONS MINE SITE



Sheet 2 Of 3 Sheets
 SCALE: As Shown FIGURE No. **2-2**

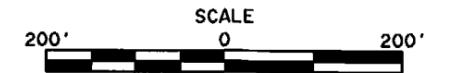
L:\005148 NE Churobrook.dwg\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\2-2.3 SURFACE SOIL SAMPLE LOCATIONS MINE SITE



LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- SURFACE SOIL SAMPLE LOCATION
- CORRELATION SAMPLE LOCATION
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION

NOTES:
 1. LOCATION IDs ARE ABBREVIATED TO PREVENT OVERLAPPING LABELS.
 2. ADDITIONAL SAMPLE LOCATIONS ASSOCIATED WITH NECR-1 AND LOCATED TO THE NORTH ARE SHOWN ON FIGURE 2-3.



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REMOVAL SITE EVALUATION REPORT
 DRAWING TITLE:
SURFACE SOIL SAMPLE LOCATIONS MINE SITE



Sheet 3 Of 3 Sheets
 SCALE: As Shown
 FIGURE No. 2-2

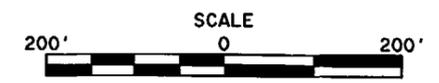
LA 100548 NE Charbrook King REMOVAL SITE EVALUATION REPORT Sheet Set Drawings 2-3 SURFACE SOIL SAMPLE LOCATIONS HOME SITES



LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- SOIL SAMPLE LOC., HOME SITES
- SOIL SAMPLE LOCATION, NECR-1
- CORRELATION SAMPLE LOCATION
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- HOME SITE 0.5 ACRE SURVEY AREA BOUNDARY
- HOME SITE NUMBER
- EPA REMOVAL ACTION BOUNDARY (APPROXIMATE)

- NOTES:
1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
 2. LOCATION IDs ARE ABBREVIATED TO PREVENT OVERLAPPING LABELS.
 3. SURFACE SOIL SAMPLES COLLECTED AT HOME SITES 4,6,7,8,9 WERE ASSUMED TO HAVE BEEN EXCAVATED BY THE EPA (SEE APPENDIX D).
 4. EPA REMOVAL ACTION BOUNDARIES ARE BASED ON HAND-SKETCH MAPS AND ARE OF QUESTIONABLE ACCURACY.



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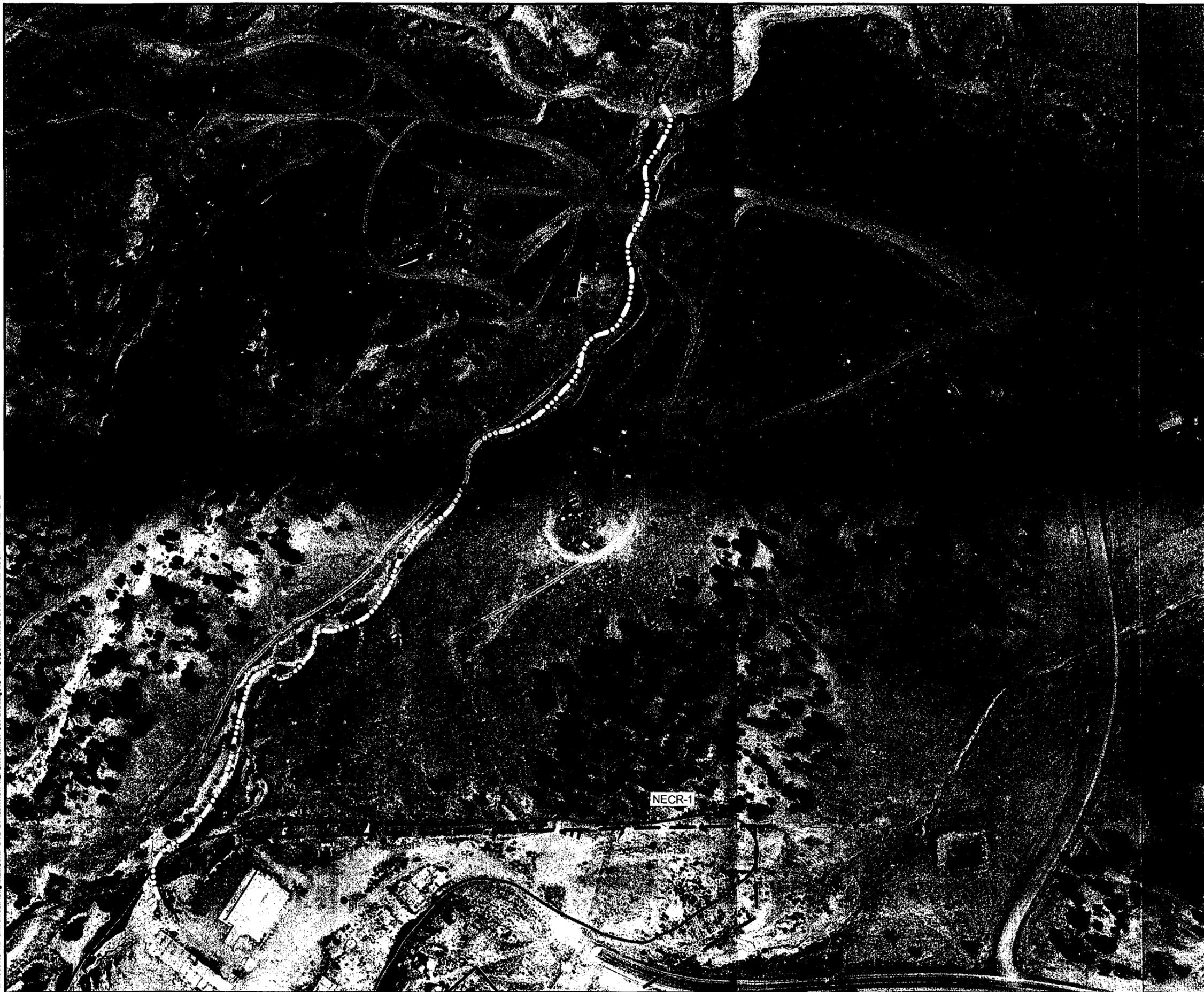
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REMOVAL SITE EVALUATION REPORT

DRAWING TITLE:
SURFACE SOIL SAMPLE LOCATIONS HOME SITES

MWH

Sheet 1 of 1 Sheets
SCALE: As Shown
FIGURE No. 2-3

L:\005648 NE Charcotrook Mining Removal Site Evaluation Report\Sheet Set\Drawings\2-4.1 SUBSURFACE SOIL SAMPLE LOCATIONS MINE SITE



LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- ARROYO
- TEST PIT LOCATION
- SOIL BORING LOCATION



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PROJECT: **REMOVAL SITE EVALUATION REPORT**
DRAWING TITLE: **SUBSURFACE SOIL SAMPLE LOCATIONS MINE SITE**



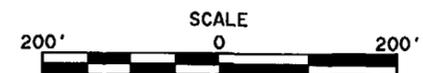
Sheet 1 Of 3 Sheets
SCALE: As Shown
FIGURE No. 2-4

L:\100548 NE Churchbrook\img\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\2-4.2 SUBSURFACE SOIL SAMPLE LOCATIONS MINE SITE



LEGEND

-  PERMIT BOUNDARY
-  SURVEY AREA BOUNDARY
-  ARROYO
-  TEST PIT LOCATION
-  SOIL BORING LOCATION



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PROJECT: **REMOVAL SITE EVALUATION REPORT**
 DRAWING TITLE: **SUBSURFACE SOIL SAMPLE LOCATIONS MINE SITE**

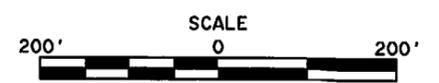
 Sheet 2 Of 3 Sheets
SCALE: As Shown FIGURE No. 2-4

L:\00546 NE Chetrock\dep\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\2-4.3 SUBSURFACE SOIL SAMPLE LOCATIONS MINE SITE



LEGEND

- PERMIT BOUNDARY
- === SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- TEST PIT LOCATION
- SOIL BORING LOCATION



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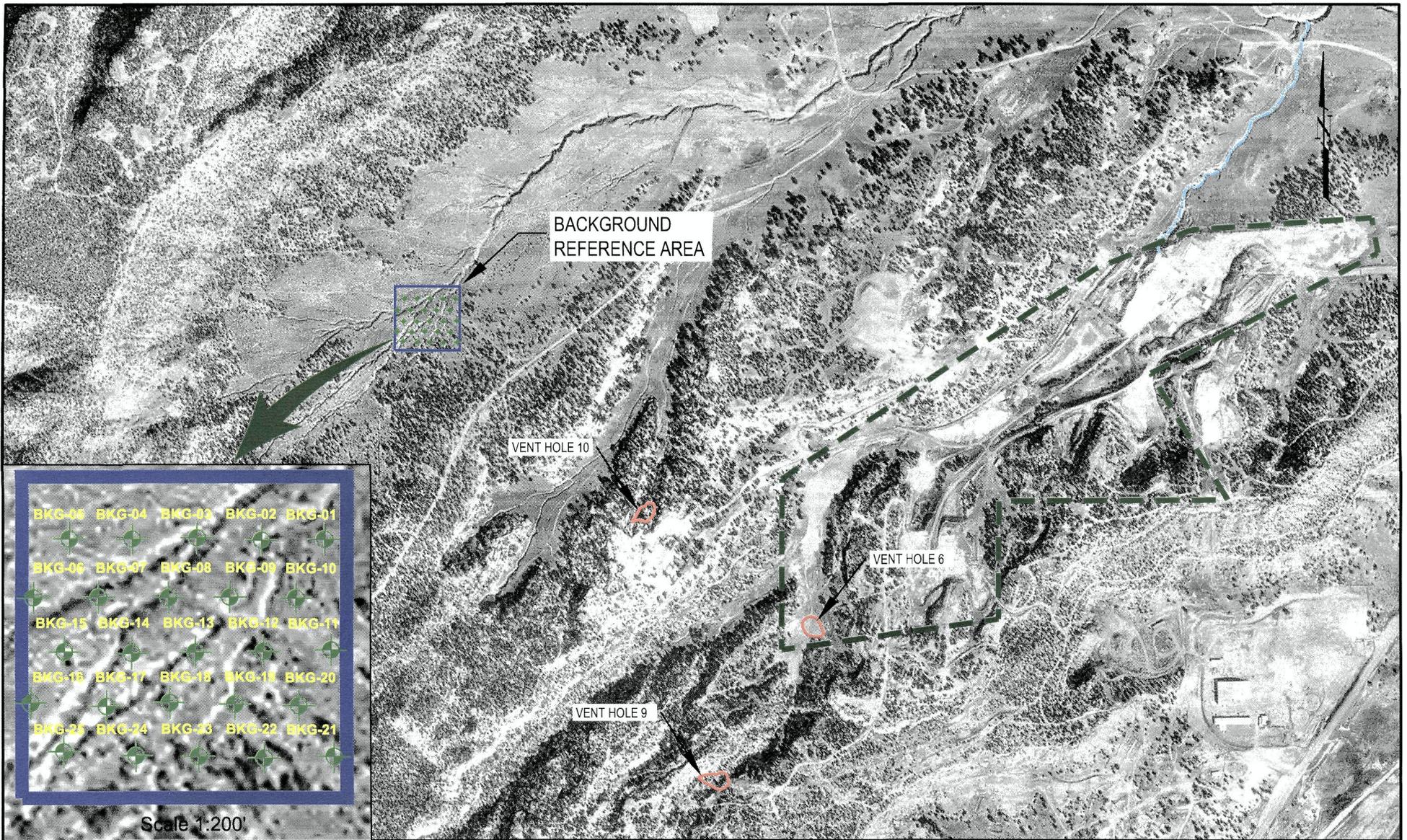
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PROJECT: **REMOVAL SITE EVALUATION REPORT**

DRAWING TITLE: **SUBSURFACE SOIL SAMPLE LOCATIONS MINE SITE**



Sheet 3 Of 3 Sheets
SCALE: As Shown
FIGURE No. 2-4



BACKGROUND REFERENCE AREA

VENT HOLE 10

VENT HOLE 6

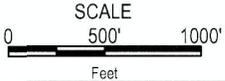
VENT HOLE 9

BKG-05 BKG-04 BKG-03 BKG-02 BKG-01
 BKG-06 BKG-07 BKG-08 BKG-09 BKG-10
 BKG-15 BKG-14 BKG-13 BKG-12 BKG-11
 BKG-16 BKG-17 BKG-18 BKG-19 BKG-20
 BKG-25 BKG-24 BKG-23 BKG-22 BKG-21

Scale 1:200'

LEGEND

- UNNAMED ARROYO
- PERMIT BOUNDARY
- SURFACE SOIL SAMPLE LOCATION

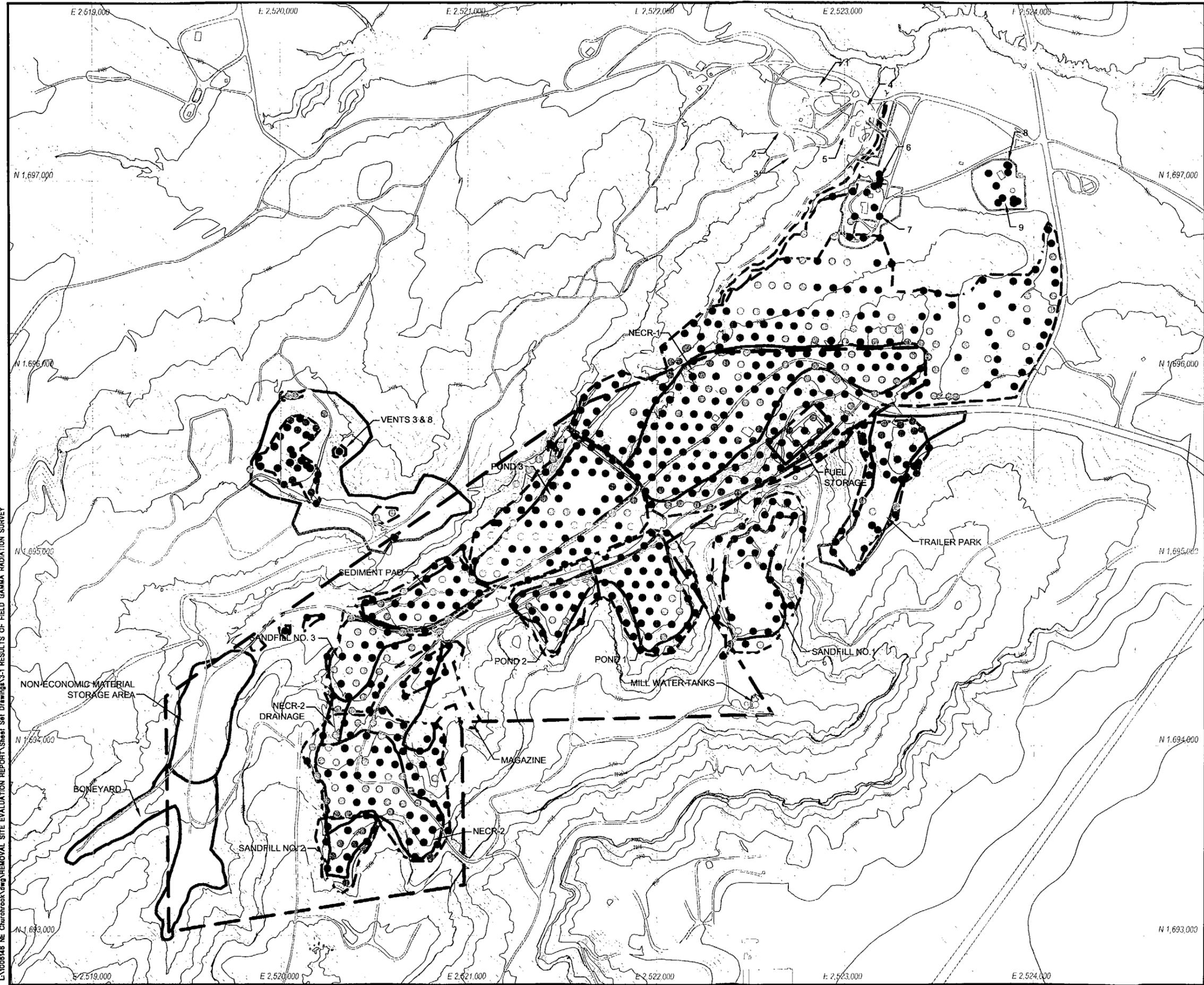


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PROJECT No.: 1005148			AutoCAD FILE: SURFACE SOIL SAMPLE LOCATIONS		
SCALE: As Shown			FIGURE No: 2-5		



UNC REMOVAL SITE EVALUATION REPORT

SURFACE SOIL SAMPLE LOCATIONS BACKGROUND REFERENCE AREA



LEGEND

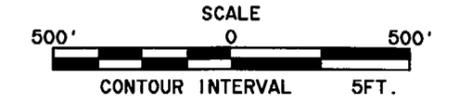
- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- AREAS ABOVE FIELD SCREENING LEVEL
- HOME SITE NUMBER
- EPA REMOVAL ACTION BOUNDARY (APPROXIMATE)

STATIC GAMMA MEASUREMENT LOCATIONS SHOWING EQUIVALENT Ra-226 (pCi/g) CONCENTRATION

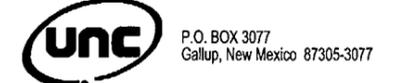
- < 2.24
- 2.25 ~ 6.72
- 6.73 ~ 22.4
- 22.4 ~ 50
- > 50

NOTES:

1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
2. EQUIVALENT Ra-226 CONCENTRATION (pCi/g) BASED ON CORRELATION WITH GAMMA (CPM) READINGS FROM STATIC SURVEY.
3. STATIC GAMMA MEASUREMENT LOCATIONS FOR HOME SITES 4,6,7,8,9 WERE ASSUMED TO HAVE BEEN EXCAVATED BY THE EPA (SEE APPENDIX D).
4. EPA REMOVAL ACTION BOUNDARIES ARE BASED ON HAND-SKETCH MAPS AND ARE OF QUESTIONABLE ACCURACY.



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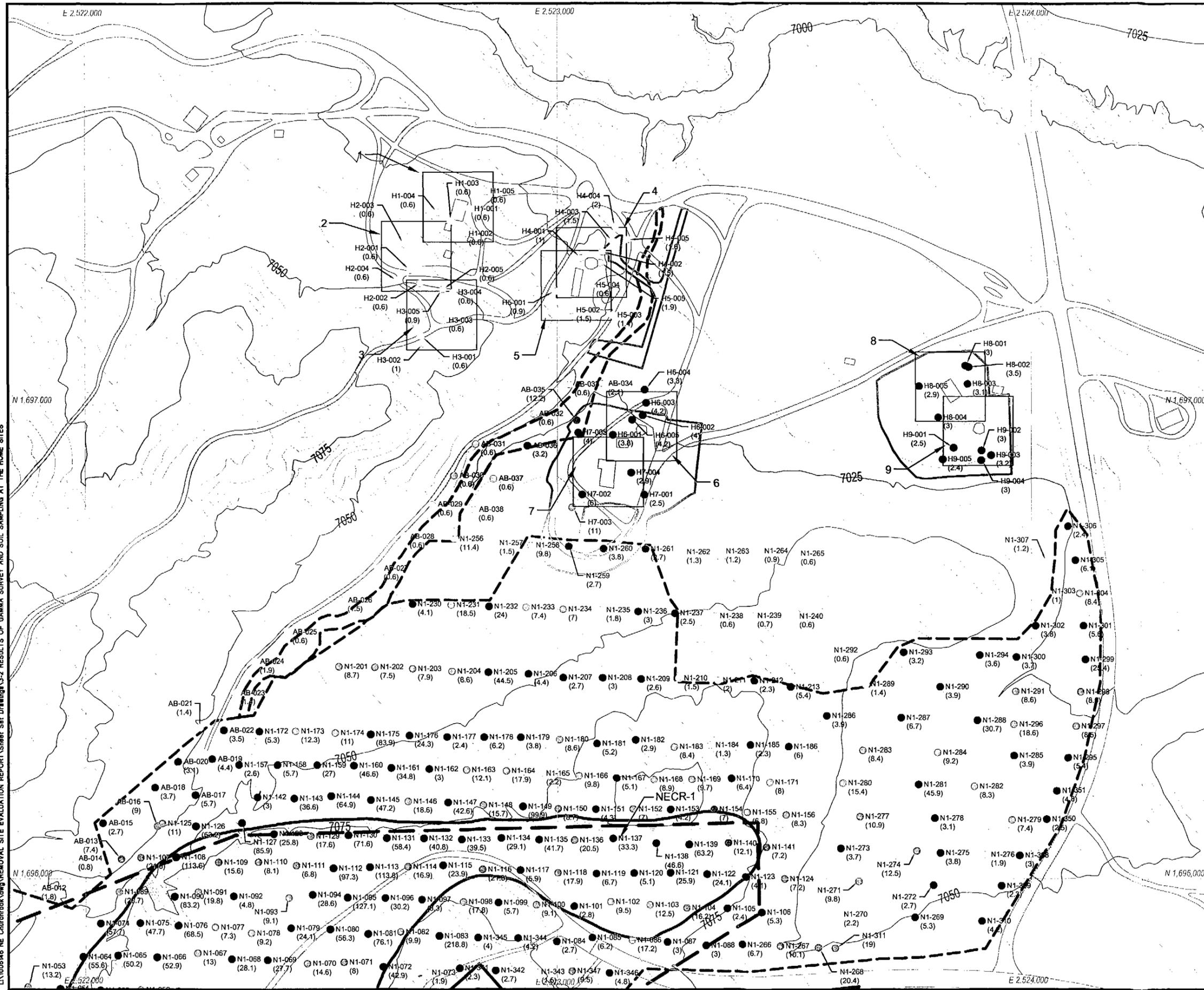


PROJECT: **REMOVAL SITE EVALUATION REPORT**
 DRAWING TITLE: **RESULTS OF FIELD GAMMA RADIATION SURVEY**

MWH

Sheet 1 Of 1 Sheets
 SCALE: As Shown FIGURE No. 3-1

L:\000548 NE Churook\img\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\3-1 RESULTS OF FIELD GAMMA RADIATION SURVEY



LEGEND

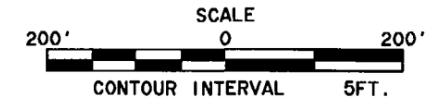
- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- AREAS ABOVE FIELD SCREENING LEVEL
- HOME SITE 0.5 ACRE SURVEY AREA BOUNDARY
- HOME SITE NUMBER
- EPA REMOVAL ACTION BOUNDARY (APPROXIMATE)

STATIC GAMMA MEASUREMENT LOCATIONS SHOWING EQUIVALENT Ra-226 (pCi/g) CONCENTRATION

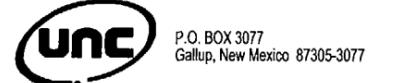
- < 2.24
- 2.25 ~ 6.72
- 6.73 ~ 22.4
- 22.4 ~ 50
- > 50

(1.3) Ra-226 LABORATORY RESULTS (pCi/g)

- NOTES:**
1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
 2. THE FSC BOUNDARY IS BASED ON SOIL ANALYTICAL RESULTS AND GAMMA MEASUREMENTS SHOWN ON FIGURE 3-1.
 3. SAMPLE LOCATIONS SHOWN FOR HOME SITES 4,6,7,8,9 WERE ASSUMED TO HAVE BEEN EXCAVATED BY THE EPA (SEE APPENDIX D).
 4. EPA REMOVAL ACTION BOUNDARIES ARE BASED ON HAND-SKETCH MAPS AND ARE OF QUESTIONABLE ACCURACY.



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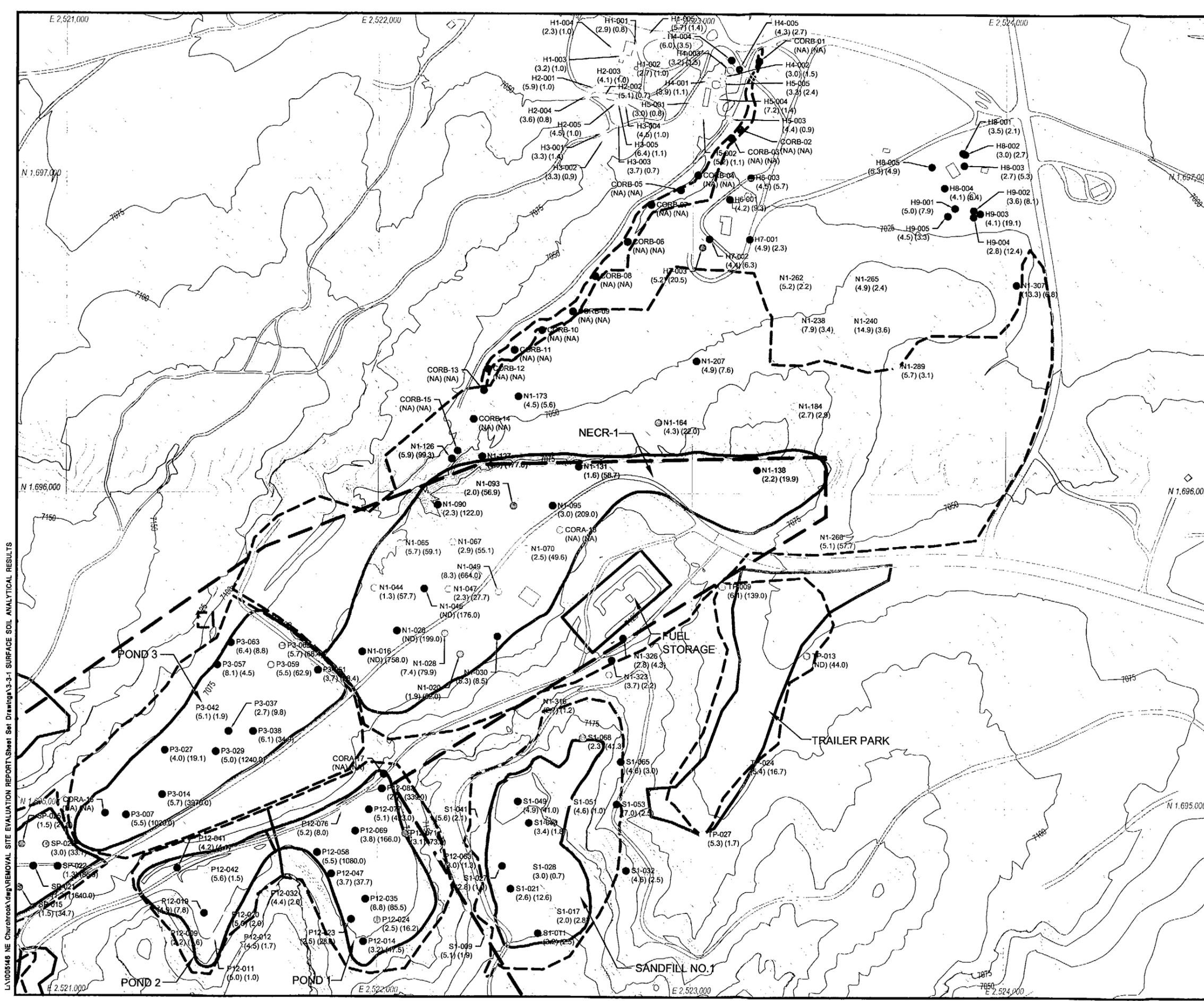


PROJECT: **REMOVAL SITE EVALUATION REPORT**
 DRAWING TITLE: **RESULTS OF GAMMA SURVEY AND SOIL SAMPLING AT THE HOME SITES**

MWH

Sheet 1 Of 1 Sheets
 SCALE: As Shown
 FIGURE No. 3-2

L:\100546 NE Chuhrook.kmg\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\3-2 RESULTS OF GAMMA SURVEY AND SOIL SAMPLING AT THE HOME SITES



LEGEND

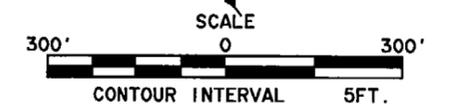
- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- AREAS ABOVE FIELD SCREENING LEVEL
- HOME SITE 0.5 ACRE SURVEY AREA BOUNDARY
- HOME SITE NUMBER
- EPA REMOVAL ACTION BOUNDARY (APPROXIMATE)

SURFACE SOIL SAMPLE LOCATIONS SHOWING Ra-226 LABORATORY RESULTS (pCi/g)

- < 2.24
- 2.25 ~ 6.72
- 6.73 ~ 22.4
- 22.4 ~ 50
- > 50
- AS, U (mg/Kg)
- NOT-ANALYZED

NOTES:

1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
2. EQUIVALENT Ra-226 CONCENTRATION (pCi/g) BASED ON CORRELATION WITH GAMMA (CPM) READINGS FROM STATIC SURVEY.
3. THE FSC BOUNDARY IS BASED ON SOIL ANALYTICAL RESULTS AND GAMMA MEASUREMENTS SHOWN ON FIGURE 3-1.
4. SAMPLE LOCATIONS SHOWN FOR HOME SITES 4,6,7,8,9 WERE ASSUMED TO HAVE BEEN EXCAVATED BY THE EPA (SEE APPENDIX D).
5. EPA REMOVAL ACTION BOUNDARIES ARE BASED ON HAND-SKETCH MAPS AND ARE OF QUESTIONABLE ACCURACY.



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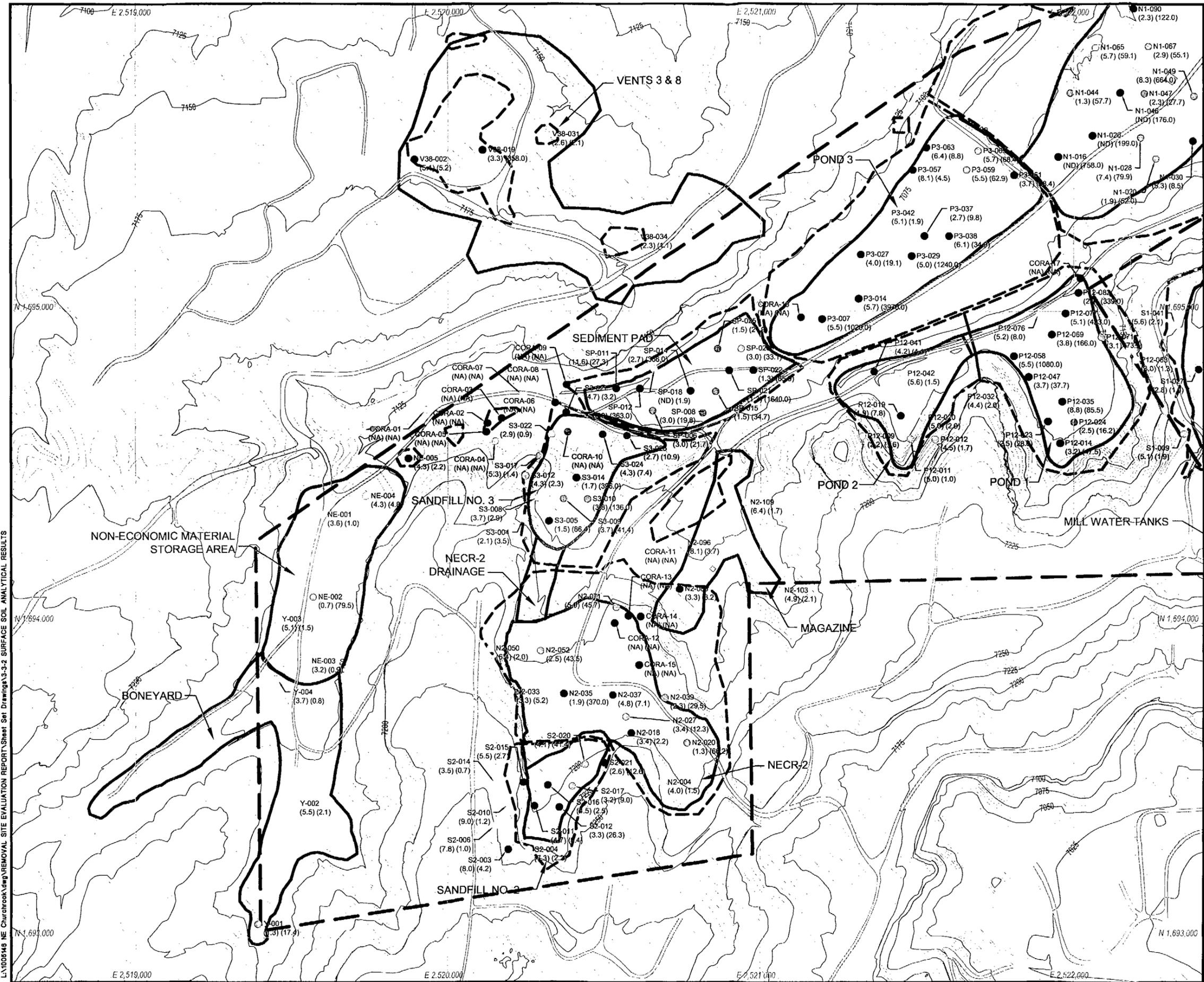
PROJECT: **REMOVAL SITE EVALUATION REPORT**

DRAWING TITLE: **SURFACE SOIL ANALYTICAL RESULTS**



Sheet 1 Of 2 Sheets
SCALE: As Shown
FIGURE No. 3-3

L:\00548 NE Chiricahua Removal Site Evaluation Report\Sheet Set Drawings\3-3-1 SURFACE SOIL ANALYTICAL RESULTS



LEGEND

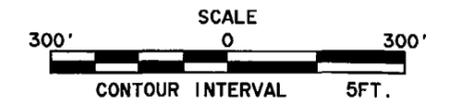
- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- AREAS ABOVE FIELD SCREENING LEVEL

SURFACE SOIL SAMPLE LOCATIONS SHOWING Ra-226 LABORATORY RESULTS (pCi/g)

- < 2.24
- 2.25 ~ 6.72
- 6.73 ~ 22.4
- 22.4 ~ 50
- > 50
- (2.7,5.3) AS, U (mg/Kg)
- NA NOT-ANALYZED

NOTES:

1. SURFACE TOPOGRAPHY GENERATED FROM AERIAL PHOTOGRAPHS DATED MAY 2007 BY COOPER AERIAL SURVEYS CO. NEW MEXICO WEST STATE PLANE COORDINATES, NAD 83.
2. EQUIVALENT Ra-226 CONCENTRATION (pCi/g) BASED ON CORRELATION WITH GAMMA (CPM) READINGS FROM STATIC SURVEY.
3. THE FSC BOUNDARY IS BASED ON SOIL ANALYTICAL RESULTS AND GAMMA MEASUREMENTS SHOWN ON FIGURE 3-1.
4. SAMPLE LOCATIONS SHOWN FOR HOME SITES 4,6,7,8,9 WERE ASSUMED TO HAVE BEEN EXCAVATED BY THE EPA (SEE APPENDIX D).
5. EPA REMOVAL ACTION BOUNDARIES ARE BASED ON HAND-SKETCH MAPS AND ARE OF QUESTIONABLE ACCURACY.



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PROJECT:
REMOVAL SITE EVALUATION REPORT

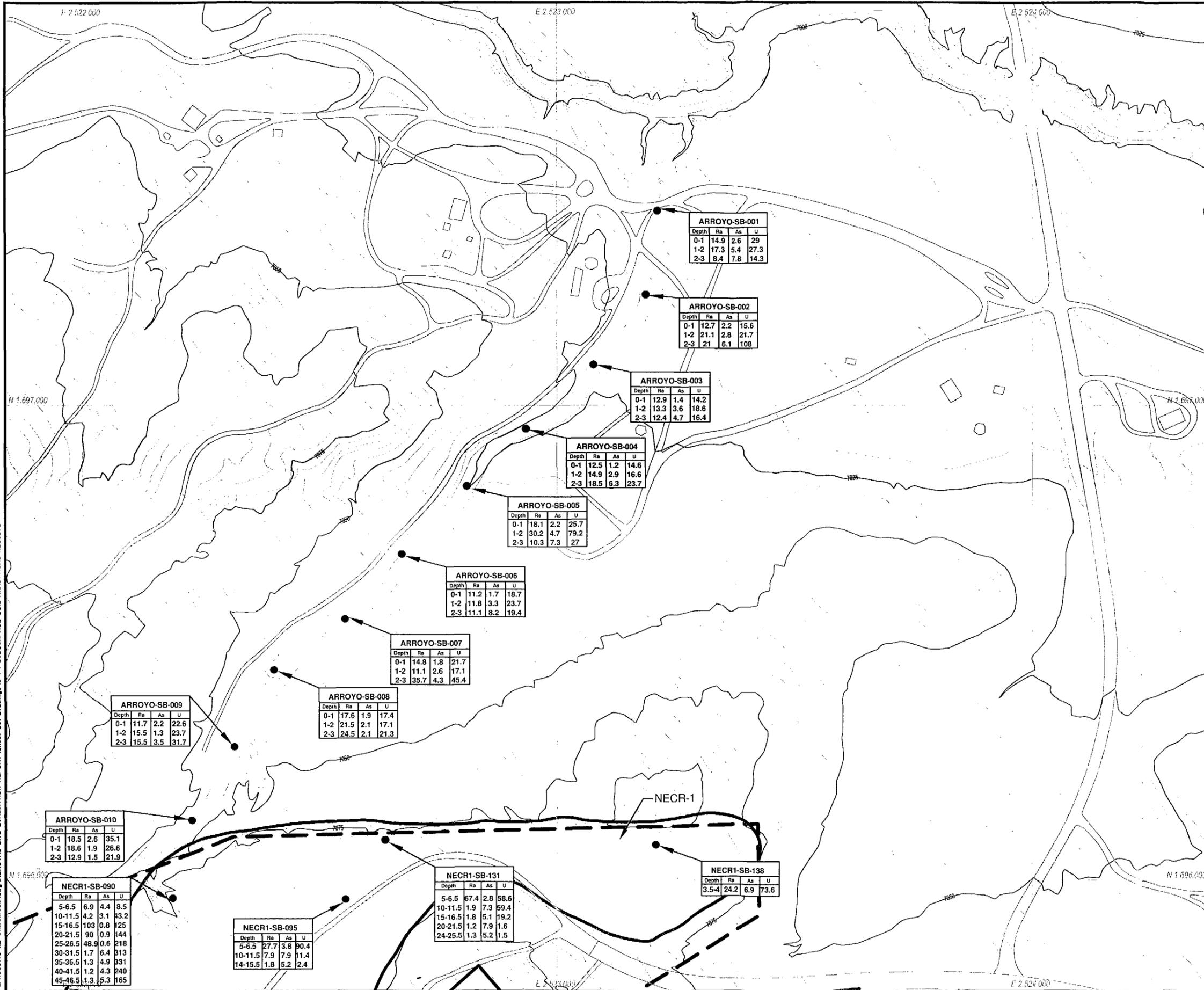
DRAWING TITLE:
SURFACE SOIL ANALYTICAL RESULTS



Sheet 2 Of 2 Sheets
SCALE: As Shown
FIGURE No. 3-3

L:\00548 NE Churchrock\mg\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\3-3 SURFACE SOIL ANALYTICAL RESULTS

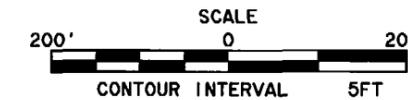
L:\005148 NE Churchbrook\deg\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\3-4-1 SUBSURFACE SOIL ANALYTICAL RESULTS



LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- TEST PIT LOCATION
- SOIL BORING LOCATION

NOTES:
 1. Ra-226 CONCENTRATIONS ARE IN pCi/g ;
 AS AND U ARE IN mg/Kg.
 2. DEPTH IN FEET bgs.



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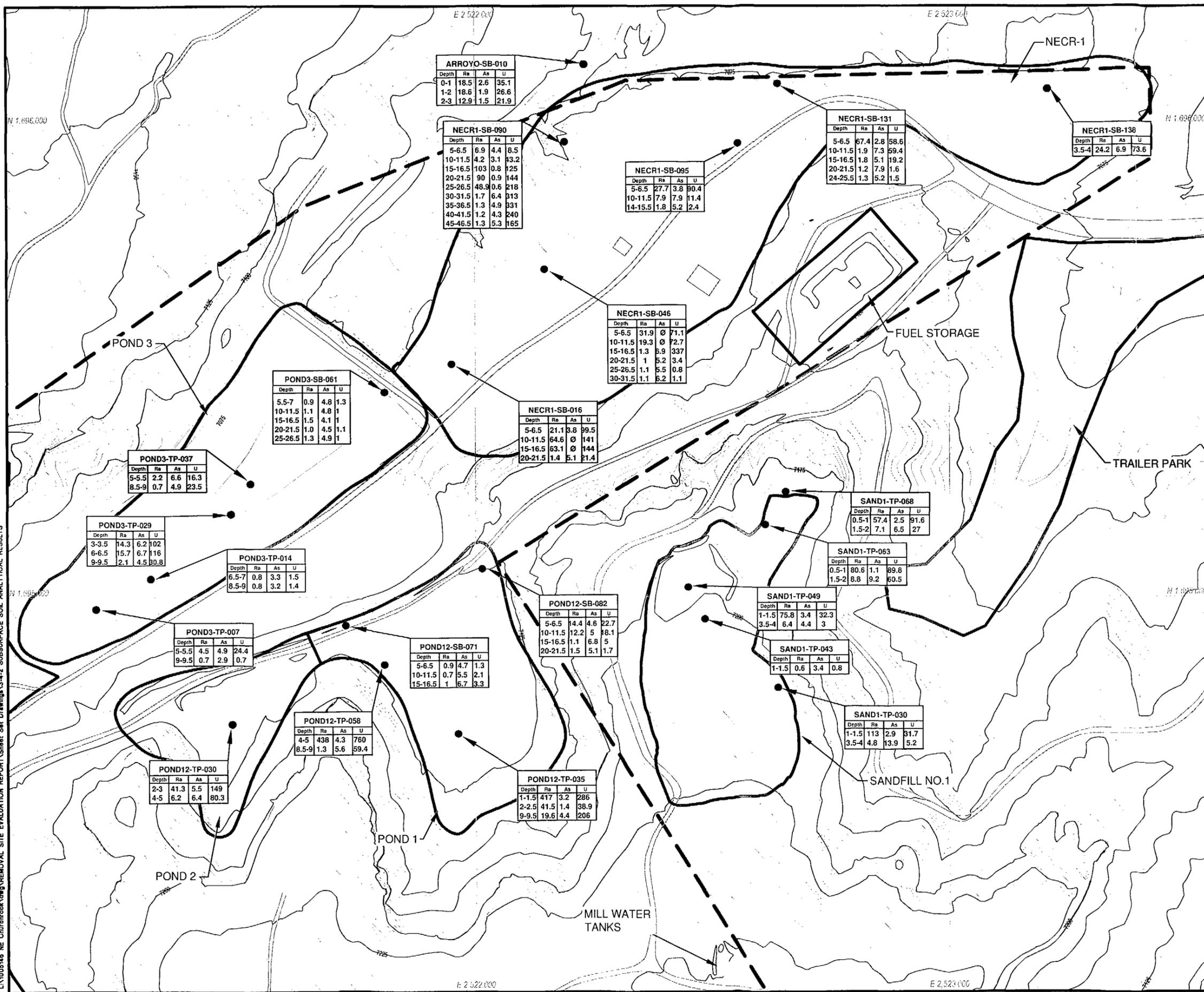
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REMOVAL SITE EVALUATION REPORT
 DRAWING TITLE:
SUBSURFACE SOIL ANALYTICAL RESULTS



Sheet 1 of 3 Sheets
 SCALE: As Shown
 FIGURE No. 3-4

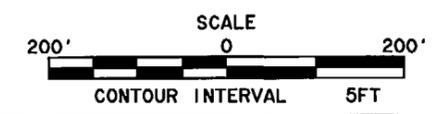
L:\1005148 NE Churchcreek.dwg REMOVAL SITE EVALUATION REPORT SHEET Set Drawings 3-4-2 SUBSURFACE SOIL ANALYTICAL RESULTS



LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- ARROYO
- TEST PIT LOCATION
- SOIL BORING LOCATION

NOTES:
 1. Ra-226 CONCENTRATIONS ARE IN pCi/g ;
 AS AND U ARE IN mg/Kg.
 2. DEPTH IN FEET bgs.



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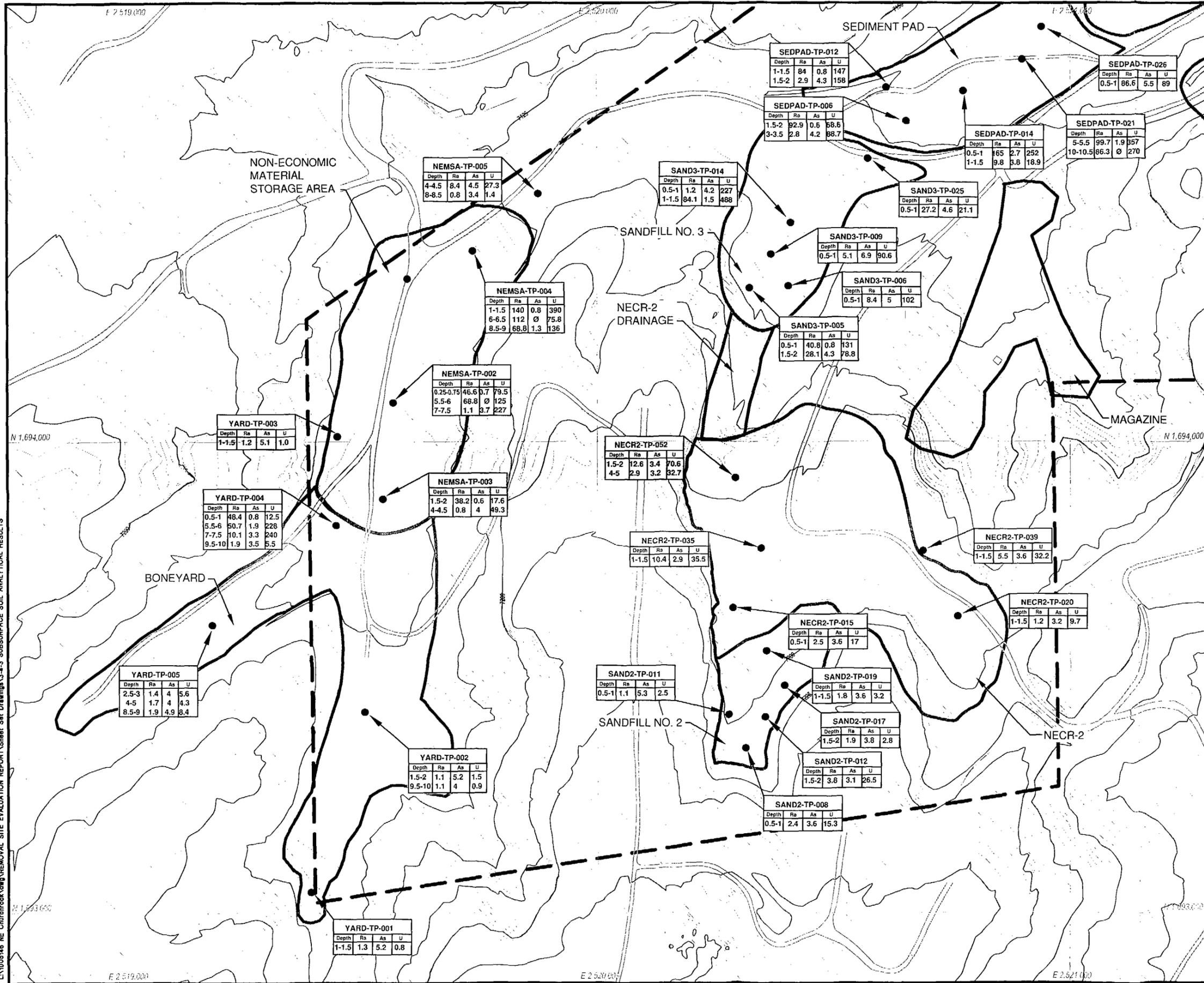
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REMOVAL SITE EVALUATION REPORT
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SUBSURFACE SOIL ANALYTICAL RESULTS



Sheet 2 Of 3 Sheets
 SCALE: As Shown
 FIGURE No. 3-4

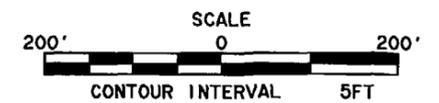
L:\1005148 NE Churchhook\env\REMOVAL SITE EVALUATION REPORT\Sheet Set Drawings\3-4-3 SUBSURFACE SOIL ANALYTICAL RESULTS



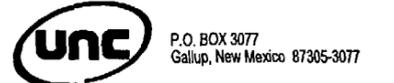
LEGEND

- PERMIT BOUNDARY
- SURVEY AREA BOUNDARY
- MINE FEATURE BOUNDARY
- TEST PIT LOCATION

NOTES:
 1. Ra-226 CONCENTRATIONS ARE IN pCi/g ;
 AS AND U ARE IN mg/Kg.
 2. DEPTH IN FEET bgs.



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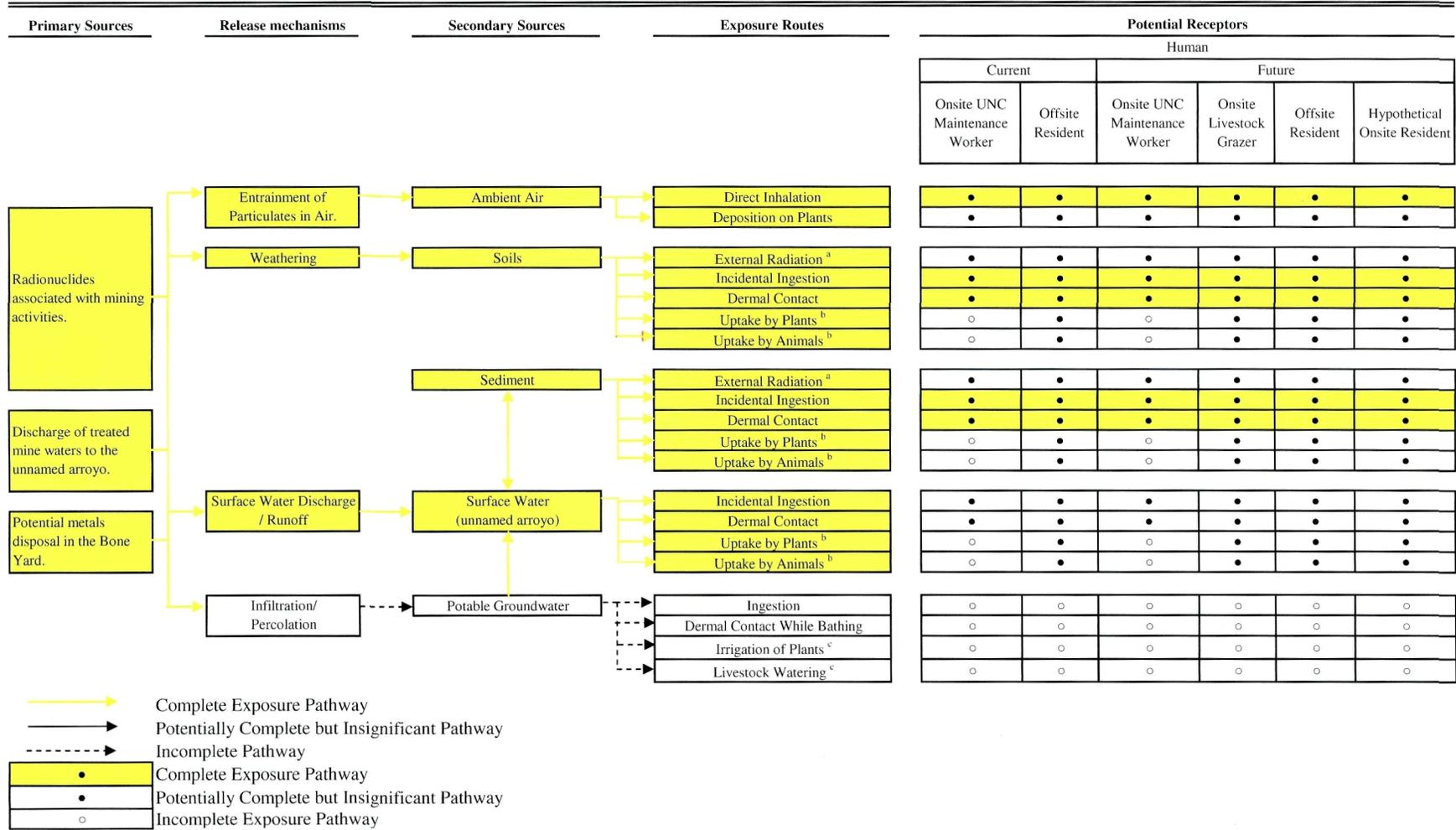


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REMOVAL SITE EVALUATION REPORT
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SUBSURFACE SOIL ANALYTICAL RESULTS



Sheet 3 of 3 Sheets
 SCALE: As Shown
 FIGURE No. 3-4

FIGURE 4-1
HUMAN HEALTH CONCEPTUAL SITE MODEL (SCENARIO 1)
NORTHEAST CHURCH ROCK MINE
NEW MEXICO

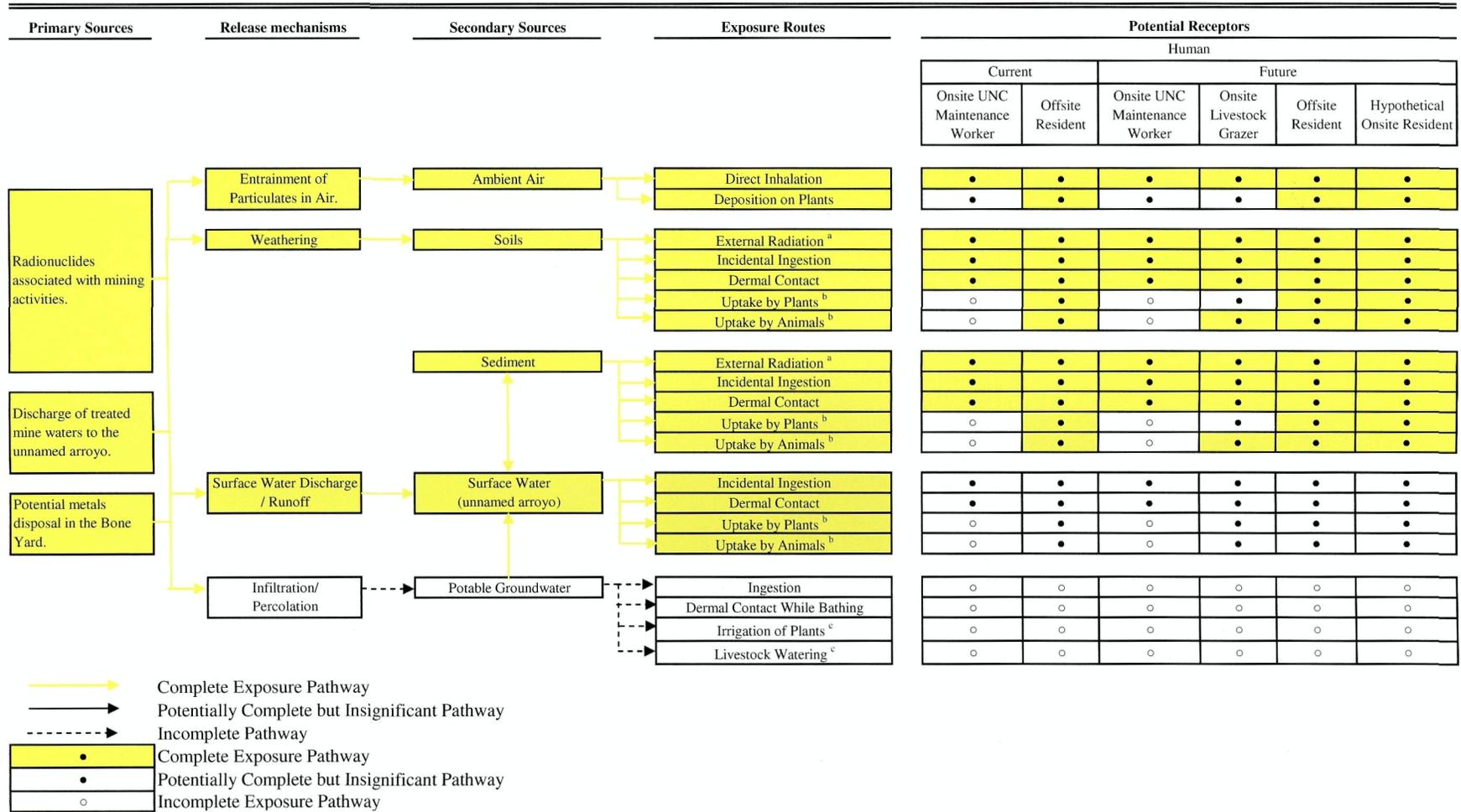


Notes:

- ^a This pathway represents direct gamma radiation to an individual from radionuclides in soil.
- ^b This pathway refers to the consumption of home-grown produce and locally raised meat and eggs.
- ^c Potable groundwater is present at a depth of 1,500 to 1,800 feet below ground surface, and is separated from shallow non-potable groundwater by several hundred to 1,000 ft. of aquitard. Therefore, domestic and agricultural groundwater pathways are considered incomplete.

FIGURE 4-2

HUMAN HEALTH CONCEPTUAL SITE MODEL (SCENARIO 2)
NORTHEAST CHURCH ROCK MINE
NEW MEXICO



Notes:

^a This pathway represents direct gamma radiation to an individual from radionuclides in soil.

^b This pathway refers to the consumption of home-grown produce and locally raised meat and eggs, with the exception of the Onsite Livestock Grazer where only meat consumption is considered complete between the plant and animal uptake pathways.

^c Potable groundwater is present at a depth of 1,500 to 1,800 feet below ground surface, and is separated from shallow non-potable groundwater by several hundred to 1,000 ft. of aquitard. Therefore, domestic and agricultural groundwater pathways are considered incomplete.