

APPENDIX A-1: GAMMA-RADIUM CORRELATION PHOTOS

The following photographs were taken during RAES Task Order 0035 in November 2022.



PHOTOGRAPH 1

DATE: 11/19/2022

LOCATION:

OCRM-CORR02

35.61719, -108.563

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR02.



PHOTOGRAPH 2

DATE: 11/19/2022

LOCATION:

OCRM-CORR02

35.61719, -108.563

DESCRIPTION:

HPIC within the centroid of OCRM-CORR02 correlation plot.



PHOTOGRAPH 3

DATE: 11/19/2022

LOCATION:

OCRM-CORR02

35.61719, -108.563

DESCRIPTION:

Composite soil collected from within the OCRM-CORR02 correlation plot.



PHOTOGRAPH 4

DATE: 11/19/2022

LOCATION:

OCRM-CORR01

35.61706, -108.564

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR01.



PHOTOGRAPH 5

DATE: 11/19/2022

LOCATION:

OCRM-CORR01

35.61706, -108.564

DESCRIPTION:

HPIC within the centroid of OCRM-CORR01 correlation plot.



PHOTOGRAPH 6

DATE: 11/19/2022

LOCATION:

OCRM-CORR01

35.61706, -108.564

DESCRIPTION:

Composite soil collected from within the OCRM-CORR01 correlation plot.



PHOTOGRAPH 7

DATE: 11/19/2022

LOCATION:

OCRM-CORR03

35.6166,-108.5625

DESCRIPTION:

HPIC within the centroid of OCRM-CORR03 correlation plot.



PHOTOGRAPH 8

DATE: 11/19/2022

LOCATION:

OCRM-CORR04

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR04.



PHOTOGRAPH 9

DATE: 11/19/2022

LOCATION:
OCRM-CORR04

DESCRIPTION:
HPIC within the centroid of OCRM-CORR04 correlation plot.



PHOTOGRAPH 10

DATE: 11/19/2022

LOCATION:
OCRM-CORR04

DESCRIPTION:
Composite soil collected from within the OCRM-CORR04 correlation plot.



PHOTOGRAPH 11

DATE: 11/19/2022

LOCATION:
OCRM-CORR05

DESCRIPTION:
Gamma-radium
correlation plot
location OCRM-
CORR05.



PHOTOGRAPH 12

DATE: 11/19/2022

LOCATION:
OCRM-CORR05
35.6202,-108.5564

DESCRIPTION:
HPIC within the
centroid of OCRM-
CORR05 correlation
plot.



PHOTOGRAPH 13

DATE: 11/19/2022

LOCATION:

OCRM-CORR05

35.6202, -108.5564

DESCRIPTION:

Composite soil collected from within the OCRM-CORR05 correlation plot.



PHOTOGRAPH 14

DATE: 11/19/2022

LOCATION:

OCRM-CORR06

35.6212, -108.5556

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR06.



PHOTOGRAPH 15

DATE: 11/19/2022

LOCATION:

OCRM-CORR06

35.6212, -108.5556

DESCRIPTION:

HPIC within the centroid of OCRM-CORR06 correlation plot.



PHOTOGRAPH 16

DATE: 11/19/2022

LOCATION:

OCRM-CORR06

35.6212, -108.5556

DESCRIPTION:

Composite soil collected from within the OCRM-CORR06 correlation plot.



PHOTOGRAPH 17

DATE: 11/19/2022

LOCATION:

OCRM-CORR07

35.6210, -108.5549

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR07.



PHOTOGRAPH 18

DATE: 11/19/2022

LOCATION:

OCRM-CORR07

35.6210, -108.5549

DESCRIPTION:

Composite soil collected from within the OCRM-CORR07 correlation plot.



PHOTOGRAPH 19

DATE: 11/19/2022

LOCATION:

OCRM-CORR08

35.6203, -108.5539

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR08.



PHOTOGRAPH 20

DATE: 11/19/2022

LOCATION:

OCRM-CORR08

35.6203, -108.5539

DESCRIPTION:

Composite soil collected from within the OCRM-CORR08 correlation plot.



PHOTOGRAPH 21

DATE: 11/19/2022

LOCATION:

OCRM-CORR09

35.6215, -108.5546

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR09.



PHOTOGRAPH 22

DATE: 11/19/2022

LOCATION:

OCRM-CORR09

35.6215, -108.5546

DESCRIPTION:

Composite soil collected from within the OCRM-CORR09 correlation plot.



PHOTOGRAPH 23

DATE: 11/19/2022

LOCATION:

OCRM-CORR10

35.62248, -108.5548

DESCRIPTION:

HPIC within the centroid of OCRM-CORR10 correlation plot.



PHOTOGRAPH 24

DATE: 11/19/2022

LOCATION:

OCRM-CORR10

35.62248, -108.5548

DESCRIPTION:

Composite soil collected from within the OCRM-CORR10 correlation plot.



PHOTOGRAPH 25

DATE: 11/19/2022

LOCATION:

OCRM-CORR11

35.6223, -108.5551

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR11.



PHOTOGRAPH 26

DATE: 11/19/2022

LOCATION:

OCRM-CORR11

35.6223, -108.5551

DESCRIPTION:

HPIC within the centroid of OCRM-CORR11 correlation plot.



PHOTOGRAPH 27

DATE: 11/19/2022

LOCATION:

OCRM-CORR11

35.6223, - 108.5551

DESCRIPTION:

Composite soil collected from within the OCRM-CORR11 correlation plot.



PHOTOGRAPH 28

DATE: 11/19/2022

LOCATION:

OCRM-CORR12

35.6240, -108.5528

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR12.



PHOTOGRAPH 29

DATE: 11/19/2022

LOCATION:

OCRM-CORR12

35.6240, -108.5528

DESCRIPTION:

HPIC within the centroid of OCRM-CORR12 correlation plot.



PHOTOGRAPH 30

DATE: 11/19/2022

LOCATION:

OCRM-CORR12

35.6240, -108.5528

DESCRIPTION:

Composite soil collected from within the OCRM-CORR12 correlation plot.



PHOTOGRAPH 31

DATE: 11/19/2022

LOCATION:

OCRM-CORR13

35.6232, -108.5507

DESCRIPTION:

Composite soil collected from within the OCRM-CORR13 correlation plot.



PHOTOGRAPH 32

DATE: 11/19/2022

LOCATION:

OCRM-CORR14

35.6230, -108.5506

DESCRIPTION:

Composite soil collected from within the OCRM-CORR14 correlation plot.



PHOTOGRAPH 33

DATE: 11/19/2022

LOCATION:

OCRM-CORR15

35.6232, -108.5502

DESCRIPTION:

Gamma-radium correlation plot location OCRM-CORR15.



PHOTOGRAPH 34

DATE: 11/19/2022

LOCATION:

OCRM-CORR15

35.6232, -108.5502

DESCRIPTION:

Composite soil collected from within the OCRM-CORR15 correlation plot.

APPENDIX A-2: SURFACE SOIL SAMPLING PHOTOS

The following photographs were taken during RAES Task Order 0035 in November 2022.



PHOTOGRAPH 1

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS01

35.6130, -108.5573

DESCRIPTION:

Surface soil sample
OCRM-B02-SS01-
111622.



PHOTOGRAPH 2

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS02

35.6130, -108.5572

DESCRIPTION:

Surface soil sample
OCRM-B02-SS02-
111622.



PHOTOGRAPH 3

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS03

35.6130, -108.5571

DESCRIPTION:

Surface soil sample
OCRM-B02-SS03-
111622.



PHOTOGRAPH 4

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS04

35.6130, -108.5570

DESCRIPTION:

Surface soil sample
OCRM-B02-SS04-
111622.



PHOTOGRAPH 5

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS05
35.6130, -108.5569

DESCRIPTION:

Surface soil sample
OCRM-B02-SS05-
111622.



PHOTOGRAPH 6

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS06
35.6129, -108.5573

DESCRIPTION:

Surface soil sample
OCRM-B02-SS06-
111622.



PHOTOGRAPH 7

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS07

35.6129, -108.5572

DESCRIPTION:

Surface soil sample
OCRM-B02-SS07-
111622.



PHOTOGRAPH 8

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS08

35.6129, -108.5571

DESCRIPTION:

Surface soil sample
OCRM-B02-SS08-
111622.



PHOTOGRAPH 9

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS09

35.6129, -108.5570

DESCRIPTION:

Surface soil sample
OCRM-B02-SS09-
111622.



PHOTOGRAPH 10

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS10

35.6129, -108.5569

DESCRIPTION:

Surface soil sample
OCRM-B02-SS10-
111622.



PHOTOGRAPH 11

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS11

35.6128, -108.5573

DESCRIPTION:

Surface soil sample
OCRM-B02-SS11-
111622.



PHOTOGRAPH 12

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS12

35.6128, -108.5572

DESCRIPTION:

Surface soil sample
OCRM-B02-SS12-
111622.



PHOTOGRAPH 13

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS13

35.6129, -108.5571

DESCRIPTION:

Surface soil sample
OCRM-B02-SS13-
111622.



PHOTOGRAPH 14

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS14

35.6128, -108.5570

DESCRIPTION:

Surface soil sample
OCRM-B02-SS14-
111622.



PHOTOGRAPH 15

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS15

35.6128, -108.5569

DESCRIPTION:

Surface soil sample
OCRM-B02-SS15-
111622.



PHOTOGRAPH 16

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS16

35.6128, -108.5573

DESCRIPTION:

Surface soil sample
OCRM-B02-SS16-
111622.



PHOTOGRAPH 17

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS17
35.6128, -108.5572

DESCRIPTION:

Surface soil sample
OCRM-B02-SS17-
111622.



PHOTOGRAPH 18

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS18
35.6128, -108.5571

DESCRIPTION:

Surface soil sample
OCRM-B02-SS18-
111622.



PHOTOGRAPH 19

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS19

35.6128, -108.5570

DESCRIPTION:

Surface soil sample
OCRM-B02-SS19-
111622.



PHOTOGRAPH 20

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS20

35.6128, -108.5569

DESCRIPTION:

Surface soil sample
OCRM-B02-SS20-
111622.



PHOTOGRAPH 21

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS21

35.6127, -108.5573

DESCRIPTION:

Surface soil sample
OCRM-B02-SS21-
111622.



PHOTOGRAPH 22

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS22

35.6127, -108.5572

DESCRIPTION:

Surface soil sample
OCRM-B02-SS22-
111622.



PHOTOGRAPH 23

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS23

35.6127, -108.5571

DESCRIPTION:

Surface soil sample
OCRM-B02-SS23-
111622.



PHOTOGRAPH 24

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS24

35.6127, -108.5570

DESCRIPTION:

Surface soil sample
OCRM-B02-SS24-
111622.



PHOTOGRAPH 25

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS25

35.6127, -108.5569

DESCRIPTION:

Surface soil sample
OCRM-B02-SS25-
111622.



PHOTOGRAPH 26

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS26

35.6126, -108.5573

DESCRIPTION:

Surface soil sample
OCRM-B02-SS26-
111622.



PHOTOGRAPH 27

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS27

35.6126, -108.5572

DESCRIPTION:

Surface soil sample
OCRM-B02-SS27-
111622.



PHOTOGRAPH 28

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS28

35.6126, -108.5571

DESCRIPTION:

Surface soil sample
OCRM-B02-SS28-
111622.



PHOTOGRAPH 29

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS29

35.6126, -108.5570

DESCRIPTION:

Surface soil sample
OCRM-B02-SS29-
111622.



PHOTOGRAPH 30

DATE: 11/16/2022

LOCATION:

OCRM-B02-SS30

35.6126, -108.5569

DESCRIPTION:

Surface soil sample
OCRM-B02-SS30-
111622.



PHOTOGRAPH 31

DATE: 11/17/2022

LOCATION:

OCRM-SS02-01

35.6250, -108.5544

DESCRIPTION:

Surface soil sample
OCRM-SS02-01-
111722.



PHOTOGRAPH 32

DATE: 11/17/2022

LOCATION:

OCRM-SS05-01

35.6241, -108.5506

DESCRIPTION:

Surface soil sample
OCRM-SS05-01-
111722.



PHOTOGRAPH 33

DATE: 11/17/2022

LOCATION:

OCRM-SS06-01

35.6241, -108.5510

DESCRIPTION:

Surface soil sample
OCRM-SS06-01-
111722.



PHOTOGRAPH 34

DATE: 11/17/2022

LOCATION:

OCRM-SS07-01

35.6239, -108.5507

DESCRIPTION:

Surface soil sample
OCRM-SS07-01-
111722.



PHOTOGRAPH 35

DATE: 11/17/2022

LOCATION:

OCRM-SS09-01

35.6237, -108.5513

DESCRIPTION:

Surface soil sample
OCRM-SS09-01-
111722.



PHOTOGRAPH 36

DATE: 11/17/2022

LOCATION:

OCRM-SS10-01

35.6235, -108.5529

DESCRIPTION:

Surface soil sample
OCRM-SS10-01-
111722.



PHOTOGRAPH 37

DATE: 11/17/2022

LOCATION:

OCRM-SS11-01

35.6234, -108.5523

DESCRIPTION:

Surface soil sample
OCRM-SS11-01-
111722.



PHOTOGRAPH 38

DATE: 11/17/2022

LOCATION:

OCRM-SS12-01

35.6233, -108.5515

DESCRIPTION:

Surface soil sample
OCRM-SS12-01-
111722.



PHOTOGRAPH 39

DATE: 11/17/2022

LOCATION:

OCRM-SS13-01

35.6232, -108.5526

DESCRIPTION:

Surface soil sample
OCRM-SS13-01-
111722.



PHOTOGRAPH 40

DATE: 11/17/2022

LOCATION:

OCRM-SS16-01

DESCRIPTION:

Surface soil sample
OCRM-SS16-01-
111722.



PHOTOGRAPH 41

DATE: 11/17/2022

LOCATION:

OCRM-SS17-01

35.6231, -108.5534

DESCRIPTION:

Surface soil sample
OCRM-SS17-01-
111722.



PHOTOGRAPH 42

DATE: 11/17/2022

LOCATION:

OCRM-SS18-01

35.6226, -108.5513

DESCRIPTION:

Surface soil sample
OCRM-SS18-01-
111722.



PHOTOGRAPH 43

DATE: 11/16/2022

LOCATION:

OCRM-SS1804-01

35.6221, -108.5551

DESCRIPTION:

Surface soil sample
OCRM-SS1804-01-
111622.



PHOTOGRAPH 44

DATE: 11/17/2022

LOCATION:

OCRM-SS19-01

35.6207, -108.5524

DESCRIPTION:

Surface soil sample
OCRM-SS19-01-
111722.



PHOTOGRAPH 45

DATE: 11/17/2022

LOCATION:

OCRM-SS20-01

35.6225, -108.5524

DESCRIPTION:

Surface soil sample
OCRM-SS20-01-
111722.



PHOTOGRAPH 46

DATE: 11/17/2022

LOCATION:

OCRM-SS21-01

35.6225, -108.5500

DESCRIPTION:

Surface soil sample
OCRM-SS21-01-
111722.



PHOTOGRAPH 47

DATE: 11/15/2022

LOCATION:

OCRM-SS2217-01

35.6210, -108.5557

DESCRIPTION:

Surface soil sample
OCRM-SS2215-01-
111522.



PHOTOGRAPH 48

DATE: 11/16/2022

LOCATION:

OCRM-SS2225-01

35.6211, -108.5548

DESCRIPTION:

Surface soil sample
OCRM-SS2225-01-
111622.



PHOTOGRAPH 49

DATE: 11/17/2022

LOCATION:

OCRM-SS24-01

35.6220, -108.5540

DESCRIPTION:

Surface soil sample
OCRM-SS24-01-
111722.



PHOTOGRAPH 50

DATE: 11/17/2022

LOCATION:

OCRM-SS25-01

35.6220, -108.5519

DESCRIPTION:

Surface soil sample
OCRM-SS25-01-
111722.



PHOTOGRAPH 51

DATE: 11/17/2022

LOCATION:

OCRM-SS26-01

35.6215, -108.5531

DESCRIPTION:

Surface soil sample
OCRM-SS26-01-
111722.



PHOTOGRAPH 52

DATE: 11/15/2022

LOCATION:

OCRM-SS2679-01

35.6199, -108.5558

DESCRIPTION:

Surface soil sample
OCRM-SS2679-01-
111522.



PHOTOGRAPH 53

DATE: 11/17/2022

LOCATION:

OCRM-SS27-01

35.6214, -108.5539

DESCRIPTION:

Surface soil sample
OCRM-SS27-01-
111722.



PHOTOGRAPH 54

DATE: 11/16/2022

LOCATION:

OCRM-SS2738-01

35.6197, -108.5571

DESCRIPTION:

Surface soil sample
OCRM-SS2738-01-
111622.



PHOTOGRAPH 55

DATE: 11/17/2022

LOCATION:

OCRM-SS28-01

35.6206, -108.5525

DESCRIPTION:

Surface soil sample
OCRM-SS28-01-
111722.



PHOTOGRAPH 56

DATE: 11/17/2022

LOCATION:

OCRM-SS29-01

35.6207, -108.5542

DESCRIPTION:

Surface soil sample
OCRM-SS29-01-
111722.



PHOTOGRAPH 57

DATE: 11/16/2022

LOCATION:
OCRM-SS2946A-01

DESCRIPTION:
Surface soil sample
OCRM-SS2946A-01-111622.



PHOTOGRAPH 58

DATE: 11/16/2022

LOCATION:
OCRM-SS2946B-01

DESCRIPTION:
Surface soil sample
OCRM-SS2946B-01-111622.



PHOTOGRAPH 59

DATE: 11/17/2022

LOCATION:

OCRM-SS30-01

35.6207, -108.5552

DESCRIPTION:

Surface soil sample
OCRM-SS30-01-
111722.



PHOTOGRAPH 60

DATE: 11/16/2022

LOCATION:

OCRM-SS3006-01

DESCRIPTION:

Surface soil sample
OCRM-SS3006-01-
111622.



PHOTOGRAPH 61

DATE: 11/16/2022

LOCATION:

OCRM-SS3099-01

35.6186, -108.5573

DESCRIPTION:

Surface soil sample
OCRM-SS3099-01-
111622.



PHOTOGRAPH 62

DATE: 11/17/2022

LOCATION:

OCRM-SS31-01

35.6208, -108.5565

DESCRIPTION:

Surface soil sample
OCRM-SS31-01-
111722.



PHOTOGRAPH 63

DATE: 11/17/2022

LOCATION:

OCRM-SS32-01

35.6205, -108.5564

DESCRIPTION:

Surface soil sample
OCRM-SS32-01-
111722.



PHOTOGRAPH 64

DATE: 11/17/2022

LOCATION:

OCRM-SS34-01

35.6200, -108.5546

DESCRIPTION:

Surface soil sample
OCRM-SS34-01-
111722.



PHOTOGRAPH 65

DATE: 11/17/2022

LOCATION:

OCRM-SS35-01

35.6194, -108.5569

DESCRIPTION:

Surface soil sample
OCRM-SS35-01-
111722.



PHOTOGRAPH 66

DATE: 11/17/2022

LOCATION:

OCRM-SS36-01

35.6192, -108.5548

DESCRIPTION:

Surface soil sample
OCRM-SS36-01-
111722.



PHOTOGRAPH 67

DATE: 11/18/2022

LOCATION:

OCRM-RTSW-
XS08-01

35.6163, -108.5620

DESCRIPTION:

Surface soil sample
OCR-RTSW-XS08-
01-111822

APPENDIX A-3: XRF IN SITU PHOTOS

The following photographs were taken during RAES Task Order 0035 in November 2022.



PHOTOGRAPH 1

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-01

35.6128, -108.5573

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-01.



PHOTOGRAPH 2

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-01

35.6130, -108.5573

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-01.



PHOTOGRAPH 3

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-02

35.6130, -108.5572

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-02.



PHOTOGRAPH 4

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-05

35.6130, -108.5569

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-05.



PHOTOGRAPH 5

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-06

35.6129, -108.5573

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-06.



PHOTOGRAPH 6

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-07

35.6129, -108.5572

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-07.



PHOTOGRAPH 7

DATE: 11/16/2022

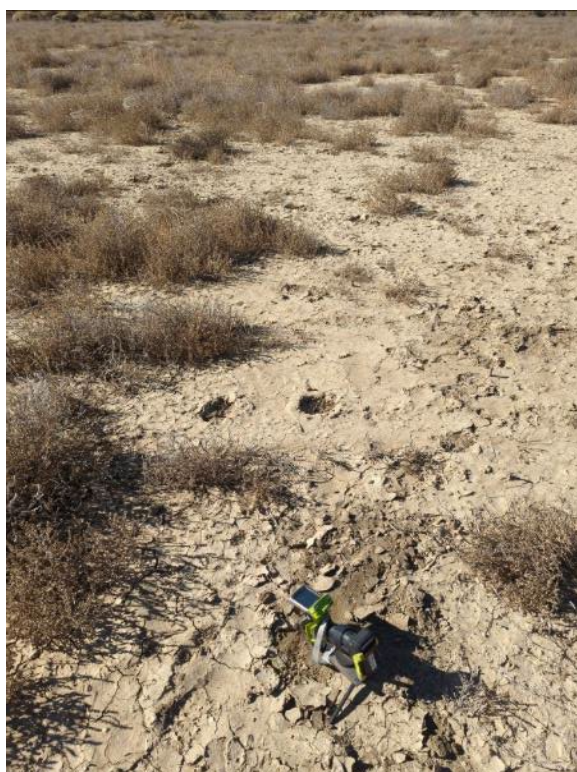
LOCATION:

111622-OCRM-
BSA02-08

35.6129, -108.5571

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-08.



PHOTOGRAPH 8

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-10

35.6129, -108.5569

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-10.



PHOTOGRAPH 9

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-11

35.6129, -108.5573

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-11.



PHOTOGRAPH 10

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-12

35.6129, -108.5572

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-12.



PHOTOGRAPH 11

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-13

35.6129, -108.5571

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-13.



PHOTOGRAPH 12

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-14

35.6129, -108.5570

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-14.



PHOTOGRAPH 13

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-15

35.6129, -108.5569

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-15.



PHOTOGRAPH 14

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-17

35.6128, -108.5572

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-17.



PHOTOGRAPH 15

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-19

35.6128, -108.5570

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-19.



PHOTOGRAPH 16

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-20

35.6128, -108.5569

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-20.



PHOTOGRAPH 17

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-21

35.6127, -108.5573

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-21.



PHOTOGRAPH 18

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-22

35.6127, -108.5572

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-22.



PHOTOGRAPH 19

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-23

35.6127, -108.5571

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-23.



PHOTOGRAPH 20

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-24

35.6127, -108.5570

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-24.



PHOTOGRAPH 21

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-25

35.6127, -108.5569

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-25.



PHOTOGRAPH 22

DATE: 11/16/2022

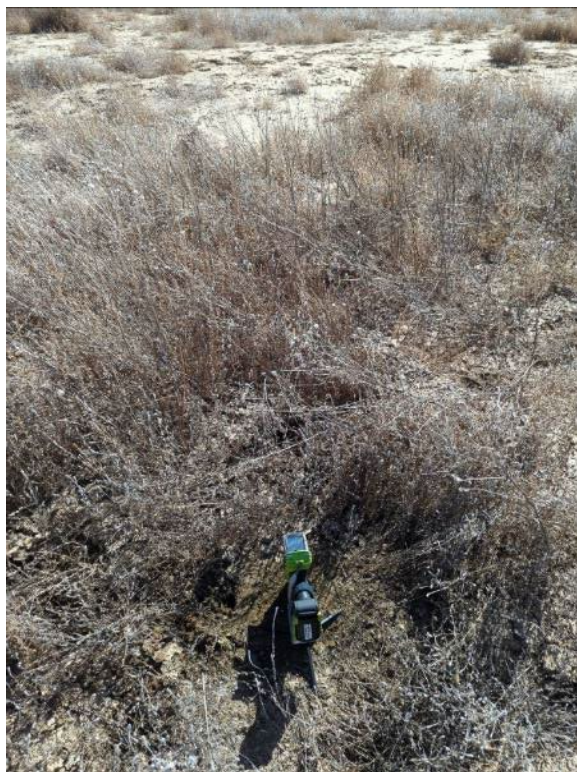
LOCATION:

111622-OCRM-
BSA02-27

35.6126, -108.5572

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-27.



PHOTOGRAPH 23

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-28

35.6126, -108.5571

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-28.



PHOTOGRAPH 24

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-29

35.6126, -108.5570

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-29.



PHOTOGRAPH 25

DATE: 11/16/2022

LOCATION:

111622-OCRM-
BSA02-30

35.6126, -108.5569

DESCRIPTION:

XRF measurement at
111622-OCRM-
BSA02-30.



PHOTOGRAPH 26

DATE: 11/16/2022

LOCATION:

OCRM-X1804

35.6221, -108.5551

DESCRIPTION:

XRF measurement at
OCRM-X1804.



PHOTOGRAPH 27

DATE: 11/16/2022

LOCATION:

OCRM-X2217

35.6210, -108.5558

DESCRIPTION:

XRF measurement at
OCRM-X2217.



PHOTOGRAPH 28

DATE: 11/16/2022

LOCATION:

OCRM-X2225

35.6211, -108.5548

DESCRIPTION:

XRF measurement at
OCRM-X2225.



PHOTOGRAPH 30

DATE: 11/16/2022

LOCATION:

OCRM-X2679

35.6199, -108.5558

DESCRIPTION:

XRF measurement at
OCRM-X2679.



PHOTOGRAPH 31

DATE: 11/16/2022

LOCATION:

OCRM-X2738

35.6197, -108.5571

DESCRIPTION:

XRF measurement at
OCRM-X2738.



PHOTOGRAPH 32

DATE: 11/16/2022

LOCATION:

OCRM-X3099

35.6186, -108.5573

DESCRIPTION:

XRF measurement at
OCRM-X3099.



PHOTOGRAPH 33

DATE: 11/19/2022

LOCATION:

OCR-RTE-X02

35.6215, -108.5535

DESCRIPTION:

XRF measurement at
OCR-RTE-X02.



PHOTOGRAPH 34

DATE: 11/19/2022

LOCATION:

OCR-RTE-X03

35.6215, -108.5525

DESCRIPTION:

XRF measurement at
OCR-RTE-X03.



PHOTOGRAPH 35

DATE: 11/19/2022

LOCATION:

OCR-RTE-X04

35.6215, -108.5513

DESCRIPTION:

XRF measurement at
OCR-RTE-X04.



PHOTOGRAPH 36

DATE: 11/19/2022

LOCATION:

OCR-RTE-X05

35.6215, -108.5502

DESCRIPTION:

XRF measurement at
OCR-RTE-X05.



PHOTOGRAPH 37

DATE: 11/19/2022

LOCATION:

OCR-RTE-X06

35.6214, -108.5491

DESCRIPTION:

XRF measurement at
OCR-RTE-X06.



PHOTOGRAPH 38

DATE: 11/19/2022

LOCATION:

OCR-RTE-X07

35.6215, -108.5481

DESCRIPTION:

XRF measurement at
OCR-RTE-X07.



PHOTOGRAPH 39

DATE: 11/19/2022

LOCATION:

OCR-RTE-X08

35.6215, -108.5469

DESCRIPTION:

XRF measurement at
OCR-RTE-X08.



PHOTOGRAPH 40

DATE: 11/19/2022

LOCATION:

OCR-RTE-X09

35.6215, -108.5458

DESCRIPTION:

XRF measurement at
OCR-RTE-X09.



PHOTOGRAPH 41

DATE: 11/19/2022

LOCATION:

OCR-RTE-X10

35.6215, -108.5447

DESCRIPTION:

XRF measurement at
OCR-RTE-X10.



PHOTOGRAPH 42

DATE: 11/19/2022

LOCATION:

OCR-RTE-X11

35.6215, -108.5436

DESCRIPTION:

XRF measurement at
OCR-RTE-X11.



PHOTOGRAPH 43

DATE: 11/19/2022

LOCATION:

OCR-RTE-X12

35.6215, -108.5424

DESCRIPTION:

XRF measurement at
OCR-RTE-X12.



PHOTOGRAPH 44

DATE: 11/19/2022

LOCATION:

OCR-RTNE-X02

35.6227, -108.5542

DESCRIPTION:

XRF measurement at
OCR-RTNE-X02.



PHOTOGRAPH 45

DATE: 11/19/2022

LOCATION:

OCR-RTNE-X05

DESCRIPTION:

XRF measurement at
OCR-RTNE-X05.



PHOTOGRAPH 46

DATE: 11/19/2022

LOCATION:

OCR-RTNE-X06

35.6253, -108.5511

DESCRIPTION:

XRF measurement at
OCR-RTNE-X06.



PHOTOGRAPH 47

DATE: 11/19/2022

LOCATION:

OCR-RTNE-X07

35.6259, -108.5503

DESCRIPTION:

XRF measurement at
OCR-RTNE-X07.



PHOTOGRAPH 48

DATE: 11/18/2022

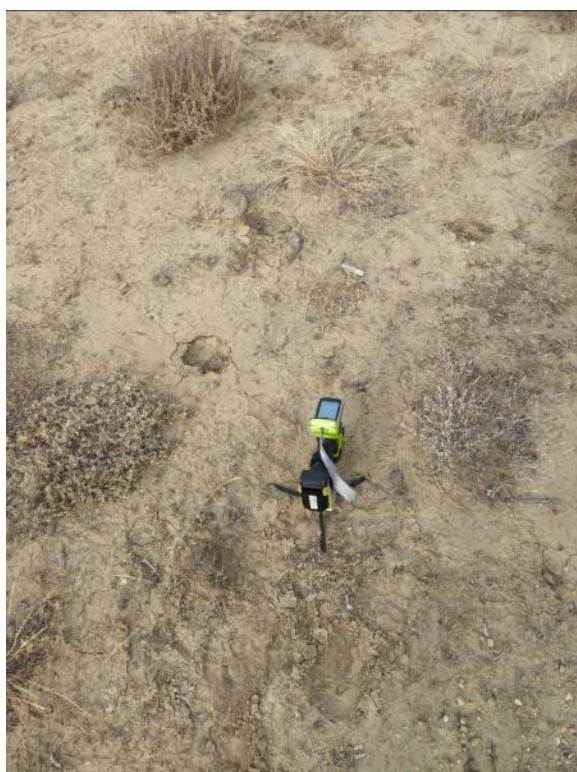
LOCATION:

OCR-RTNE-X08

35.6265, -108.5496

DESCRIPTION:

XRF measurement at
OCR-RTNE-X08.



PHOTOGRAPH 49

DATE: 11/18/2022

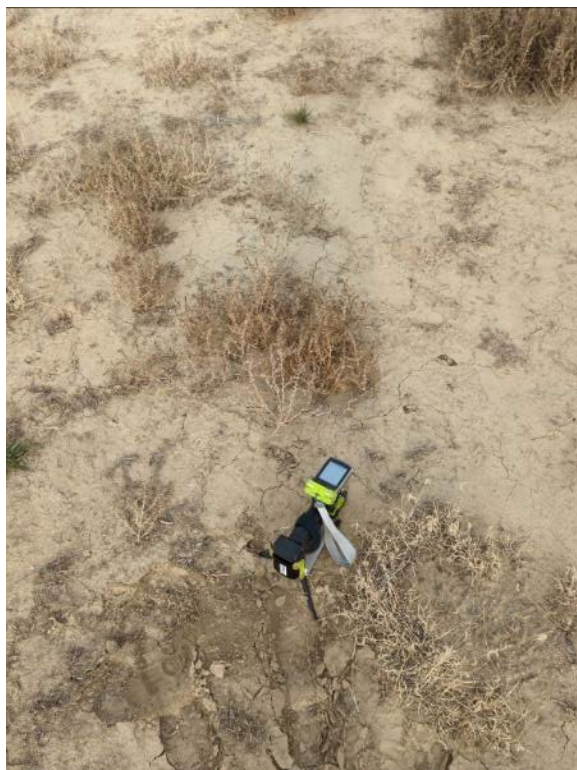
LOCATION:

OCR-RTNE-X09

35.6272, -108.5488

DESCRIPTION:

XRF measurement at
OCR-RTNE-X09.



PHOTOGRAPH 50

DATE: 11/18/2022

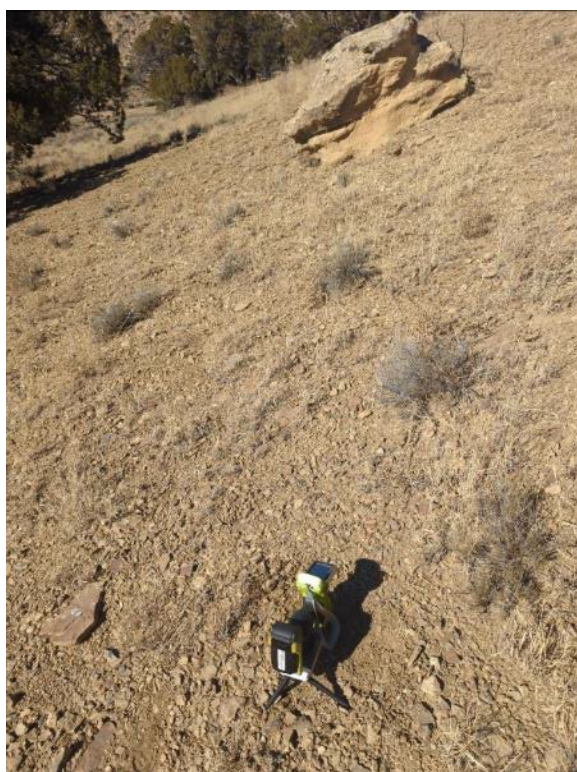
LOCATION:

OCR-RTNE-X10

35.6278, -108.5480

DESCRIPTION:

XRF measurement at
OCR-RTNE-X10.



PHOTOGRAPH 51

DATE: 11/19/2022

LOCATION:

OCR-RTNE-X11

35.6285, -108.5472

DESCRIPTION:

XRF measurement at
OCR-RTNE-X11.



PHOTOGRAPH 52

DATE: 11/19/2022

LOCATION:

OCR-RTNE-X12

35.6289, -108.5466

DESCRIPTION:

XRF measurement at
OCR-RTNE-X12.



PHOTOGRAPH 53

DATE: 11/19/2022

LOCATION:

OCR-RTNW-X01

35.6221, -108.5565

DESCRIPTION:

XRF measurement at
OCR-RTNE-X01.



PHOTOGRAPH 54

DATE: 11/19/2022

LOCATION:

OCR-RTNW-X02

35.6227, -108.5573

DESCRIPTION:

XRF measurement at
OCR-RTNW-X02.



PHOTOGRAPH 56

DATE: 11/19/2022

LOCATION:

OCR-RTNW-X03

35.6233, -108.5581

DESCRIPTION:

XRF measurement at
OCR-RTNW-X03.



PHOTOGRAPH 57

DATE: 11/19/2022

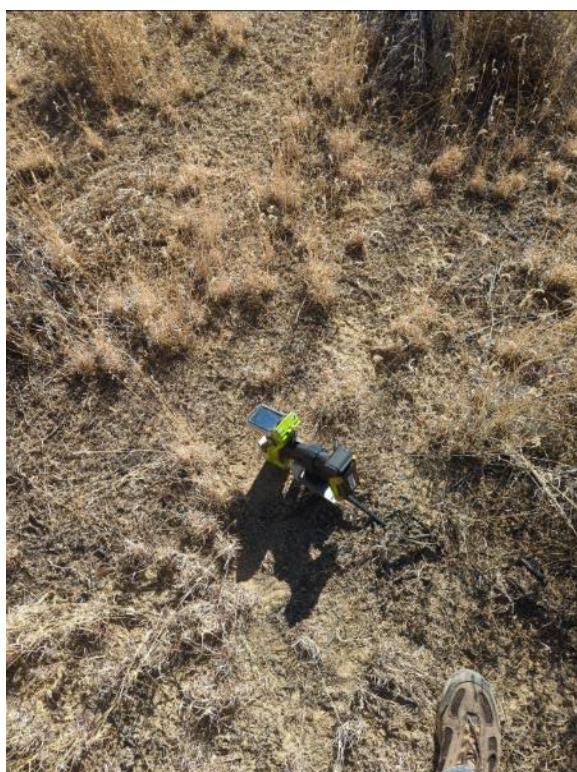
LOCATION:

OCR-RTNW-X04

35.6240, -108.5589

DESCRIPTION:

XRF measurement at
OCR-RTNW-X04.



PHOTOGRAPH 58

DATE: 11/19/2022

LOCATION:

OCR-RTNW-X05

35.6246, -108.5597

DESCRIPTION:

XRF measurement at
OCR-RTNW-X05.



PHOTOGRAPH 59

DATE: 11/19/2022

LOCATION:

OCR-RTNW-X07

DESCRIPTION:

XRF measurement at
OCR-RTNW-X07.



PHOTOGRAPH 60

DATE: 11/19/2022

LOCATION:

OCR-RTN-X02

35.6222, -108.5558

DESCRIPTION:

XRF measurement at
OCR-RTN-X02.



PHOTOGRAPH 61

DATE: 11/19/2022

LOCATION:

OCR-RTN-X03

35.6232, -108.5558

DESCRIPTION:

XRF measurement at
OCR-RTN-X03.



PHOTOGRAPH 62

DATE: 11/19/2022

LOCATION:

OCR-RTN-X04

35.6241, -108.5558

DESCRIPTION:

XRF measurement at
OCR-RTN-X04.



PHOTOGRAPH 63

DATE: 11/19/2022

LOCATION:

OCR-RTN-X06

35.6259, -108.5558

DESCRIPTION:

XRF measurement at
OCR-RTN-X06.



PHOTOGRAPH 64

DATE: 11/19/2022

LOCATION:

OCR-RTN-X07

35.6264, -108.5559

DESCRIPTION:

XRF measurement at
OCR-RTN-X07.



PHOTOGRAPH 65

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X02

35.6203, -108.5543

DESCRIPTION:

XRF measurement at
OCR-RTSE-X02.



PHOTOGRAPH 66

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X03

35.6195, -108.5534

DESCRIPTION:

XRF measurement at
OCR-RTSE-X03.



PHOTOGRAPH 67

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X04

35.6189, -108.5526

DESCRIPTION:

XRF measurement at
OCR-RTSE-X04.



PHOTOGRAPH 68

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X05

35.6183, -108.5518

DESCRIPTION:

XRF measurement at
OCR-RTSE-X05.



PHOTOGRAPH 69

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X06

35.6176, -108.5510

DESCRIPTION:

XRF measurement at
OCR-RTSE-X06.



PHOTOGRAPH 70

DATE: 11/19/2022

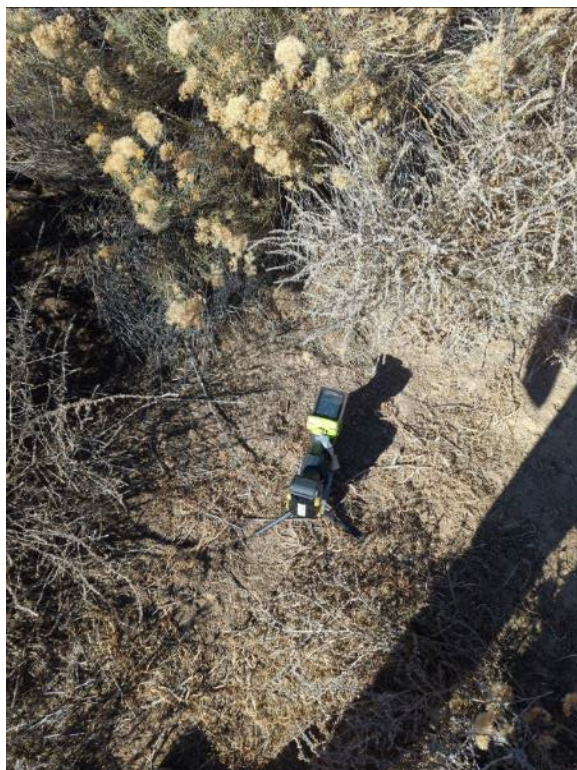
LOCATION:

OCR-RTSE-X07

35.6170, -108.5503

DESCRIPTION:

XRF measurement at
OCR-RTSE-X07.



PHOTOGRAPH 71

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X08

35.6164, -108.5494

DESCRIPTION:

XRF measurement at
OCR-RTSE-X08.



PHOTOGRAPH 72

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X09

35.6157, -108.5487

DESCRIPTION:

XRF measurement at
OCR-RTSE-X09.



PHOTOGRAPH 73

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X10

35.6151, -108.5479

DESCRIPTION:

XRF measurement at
OCR-RTSE-X10.



PHOTOGRAPH 74

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X11

35.6145, -108.5471

DESCRIPTION:

XRF measurement at
OCR-RTSE-X11.



PHOTOGRAPH 75

DATE: 11/19/2022

LOCATION:

OCR-RTSE-X12

35.6138, -108.5462

DESCRIPTION:

XRF measurement at
OCR-RTSE-X12.



PHOTOGRAPH 76

DATE: 11/19/2022

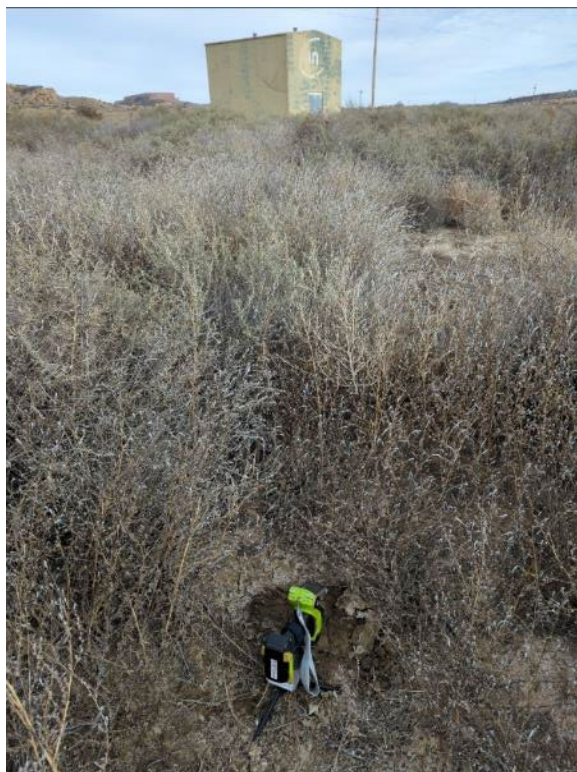
LOCATION:

OCR-RTSW-X01

35.6208, -108.5550

DESCRIPTION:

XRF measurement at
OCR-RTSW-X01.



PHOTOGRAPH 77

DATE: 11/18/2022

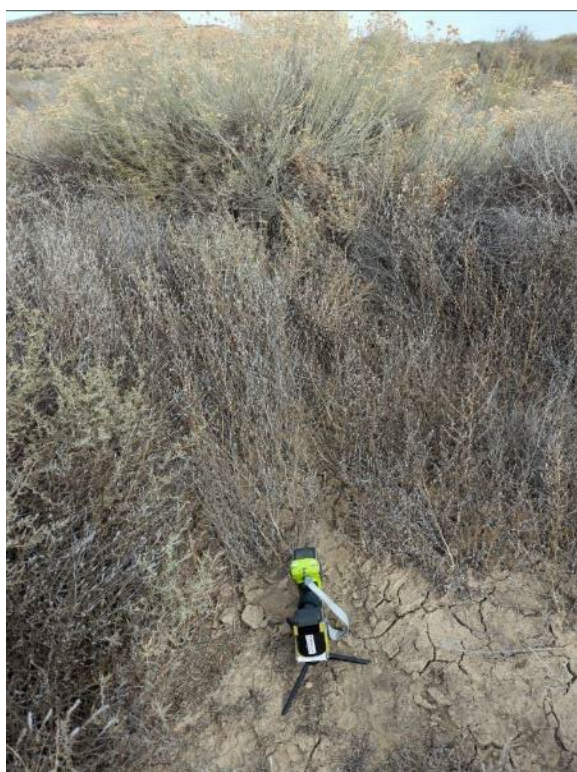
LOCATION:

OCR-RTSW-X04

35.6189, -108.5589

DESCRIPTION:

XRF measurement at
OCR-RTSW-X04.



PHOTOGRAPH 78

DATE: 11/18/2022

LOCATION:

OCR-RTSW-X05

35.6182, -108.5597

DESCRIPTION:

XRF measurement at
OCR-RTSW-X05.



PHOTOGRAPH 79

DATE: 11/18/2022

LOCATION:

OCR-RTSW-X06

35.6176, -108.5604

DESCRIPTION:

XRF measurement at
OCR-RTSW-X06.



PHOTOGRAPH 80

DATE: 11/18/2022

LOCATION:

OCR-RTSW-X07

35.6169, -108.5612

DESCRIPTION:

XRF measurement at
OCR-RTSW-X07.



PHOTOGRAPH 81

DATE: 11/18/2022

LOCATION:

OCR-RTSW-X08

35.6163, -108.5620

DESCRIPTION:

XRF measurement at
OCR-RTSW-X08.



PHOTOGRAPH 82

DATE: 11/18/2022

LOCATION:

OCR-RTSW-X09

35.6156, -108.5627

DESCRIPTION:

XRF measurement at
OCR-RTSW-X09.



PHOTOGRAPH 83

DATE: 11/18/2022

LOCATION:

OCR-RTSW-X10

35.6150, -108.5635

DESCRIPTION:

XRF measurement at
OCR-RTSW-X10.



PHOTOGRAPH 84

DATE: 11/18/2022

LOCATION:

OCR-RTSW-X11

35.6144, -108.5642

DESCRIPTION:

XRF measurement at
OCR-RTSW-X11.



PHOTOGRAPH 85

DATE: 11/18/2022

LOCATION:

OCR-RTSW-X12

35.6137, -108.5651

DESCRIPTION:

XRF measurement at
OCR-RTSW-X12.



PHOTOGRAPH 86

DATE: 11/19/2022

LOCATION:

OCR-RTS-X01

35.6205, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X01.



PHOTOGRAPH 87

DATE: 11/19/2022

LOCATION:

OCR-RTS-X02

35.6196, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X02.



PHOTOGRAPH 88

DATE: 11/19/2022

LOCATION:

OCR-RTS-X03

35.6187, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X03.



PHOTOGRAPH 88

DATE: 11/19/2022

LOCATION:

OCR-RTS-X04

35.6178, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X04.



PHOTOGRAPH 89

DATE: 11/19/2022

LOCATION:

OCR-RTS-X05

35.6169, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X05.



PHOTOGRAPH 90

DATE: 11/19/2022

LOCATION:

OCR-RTS-X06

35.6160, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X06.



PHOTOGRAPH 91

DATE: 11/19/2022

LOCATION:

OCR-RTS-X07

35.6151, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X07.



PHOTOGRAPH 92

DATE: 11/19/2022

LOCATION:

OCR-RTS-X08

35.6142, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X08.



PHOTOGRAPH 93

DATE: 11/19/2022

LOCATION:

OCR-RTS-X09

35.6133, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X09.



PHOTOGRAPH 94

DATE: 11/19/2022

LOCATION:

OCR-RTS-X10

35.6124, -108.5557

DESCRIPTION:

XRF measurement at
OCR-RTS-X10.



PHOTOGRAPH 95

DATE: 11/18/2022

LOCATION:

OCR-RTW-X01

35.6214, -108.5569

DESCRIPTION:

XRF measurement at
OCR-RTW-X01.



PHOTOGRAPH 96

DATE: 11/18/2022

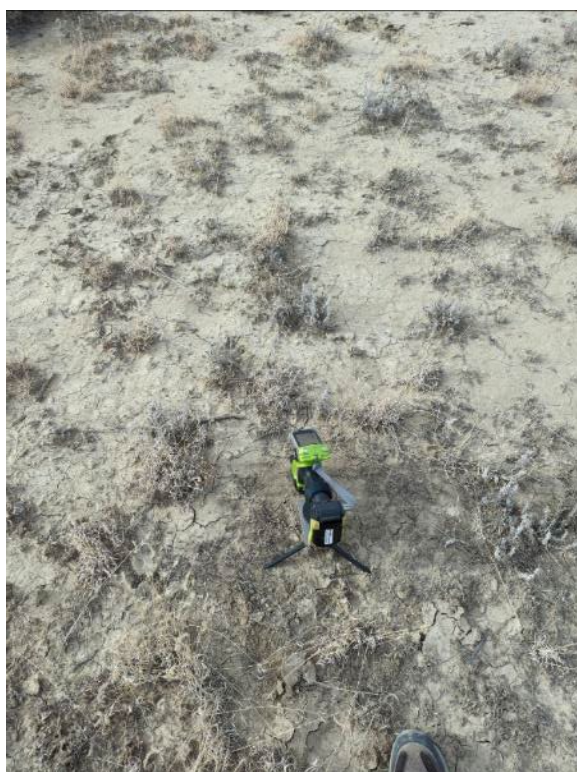
LOCATION:

OCR-RTW-X02

35.6214, -108.5580

DESCRIPTION:

XRF measurement at
OCR-RTW-X02.



PHOTOGRAPH 97

DATE: 11/18/2022

LOCATION:

OCR-RTW-X03

35.6214, -108.5591

DESCRIPTION:

XRF measurement at
OCR-RTW-X03.



PHOTOGRAPH 98

DATE: 11/18/2022

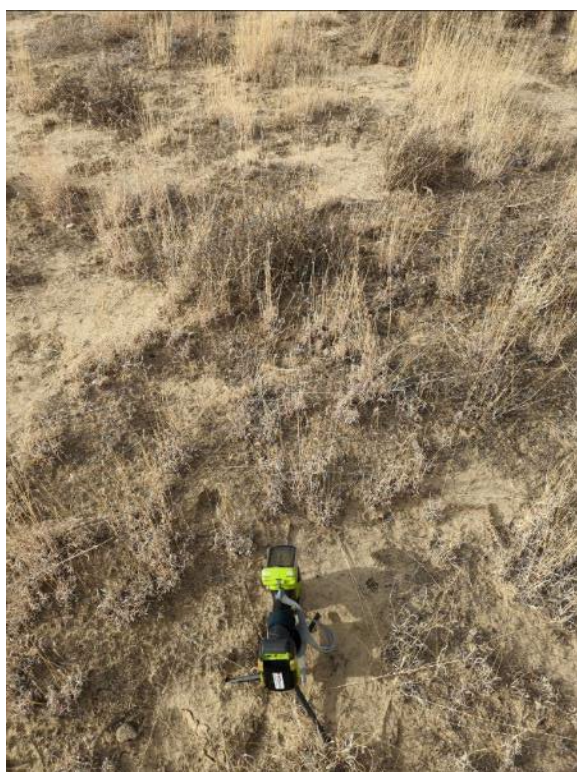
LOCATION:

OCR-RTW-X04

35.6214, -108.5602

DESCRIPTION:

XRF measurement at
OCR-RTW-X04.



PHOTOGRAPH 99

DATE: 11/18/2022

LOCATION:

OCR-RTW-X05

35.6214, -108.5613

DESCRIPTION:

XRF measurement at
OCR-RTW-X05.



PHOTOGRAPH 100

DATE: 11/18/2022

LOCATION:

OCR-RTW-X06

35.6214, -108.5624

DESCRIPTION:

XRF measurement at
OCR-RTW-X06.



PHOTOGRAPH 101

DATE: 11/18/2022

LOCATION:

OCR-RTW-X07

35.6214, -108.5635

DESCRIPTION:

XRF measurement at
OCR-RTW-X07.



PHOTOGRAPH 102

DATE: 11/18/2022

LOCATION:

OCR-RTW-X08

35.6214, -108.5645

DESCRIPTION:

XRF measurement at
OCR-RTW-X08.



PHOTOGRAPH 103

DATE: 11/18/2022

LOCATION:

OCR-RTW-X09

35.6214, -108.5657

DESCRIPTION:

XRF measurement at
OCR-RTW-X09.

APPENDIX A-4: OTHER PHOTOS

The following photographs were taken during RAES Task Order 0035 in November 2022.



PHOTOGRAPH 1

DATE: 11/15/2022

LOCATION:

35.6258, -108.5494

DESCRIPTION:

Old, abandoned cars and other debris in arroyo.



PHOTOGRAPH 2

DATE: 11/17/2022

LOCATION:

35.6205, -108.5525

DESCRIPTION:

Ore rock identified on berm.



PHOTOGRAPH 3

DATE: 11/14/2022

LOCATION:

35.6245, -108.5505

DESCRIPTION:

Underground access.



PHOTOGRAPH 4

DATE: 11/17/2022

LOCATION:

35.62062, -108.5570

DESCRIPTION:

Berm with elevated
gamma readings,
>75,000 cpm.



PHOTOGRAPH 5

DATE: 11/17/2022

LOCATION:
35.62062, -108.5570

DESCRIPTION:
Berm with elevated
gamma readings,
>75,000 cpm