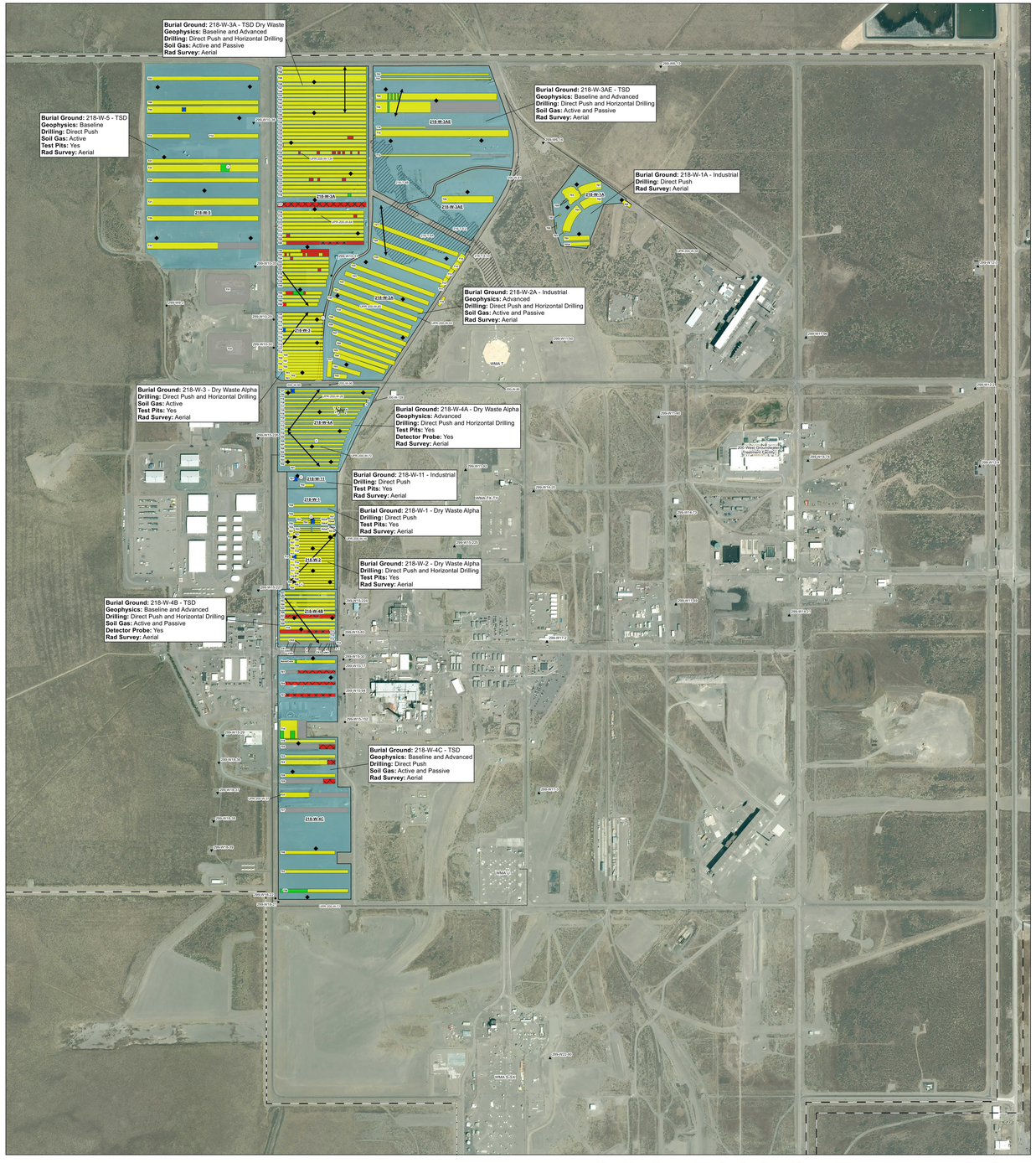
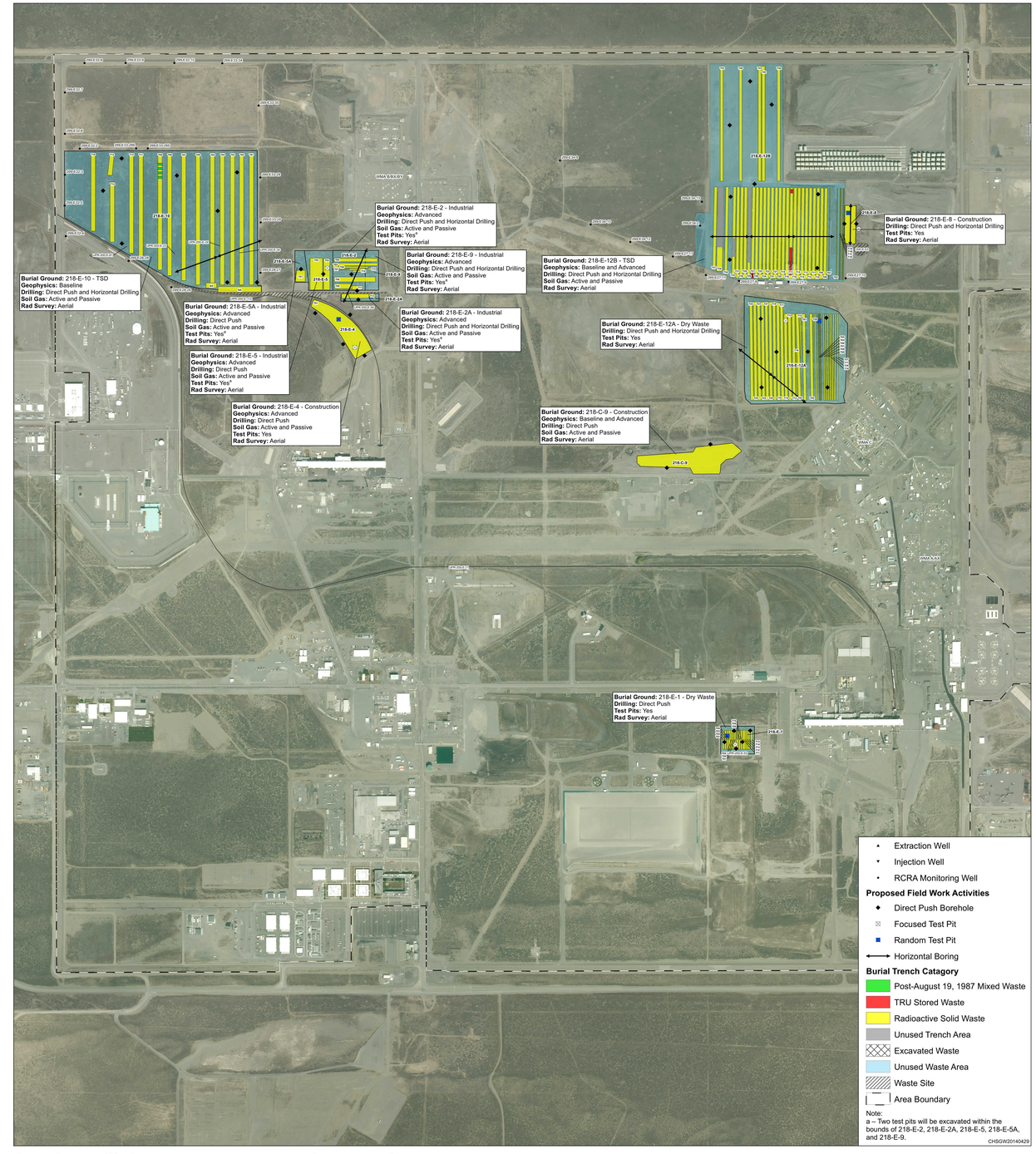
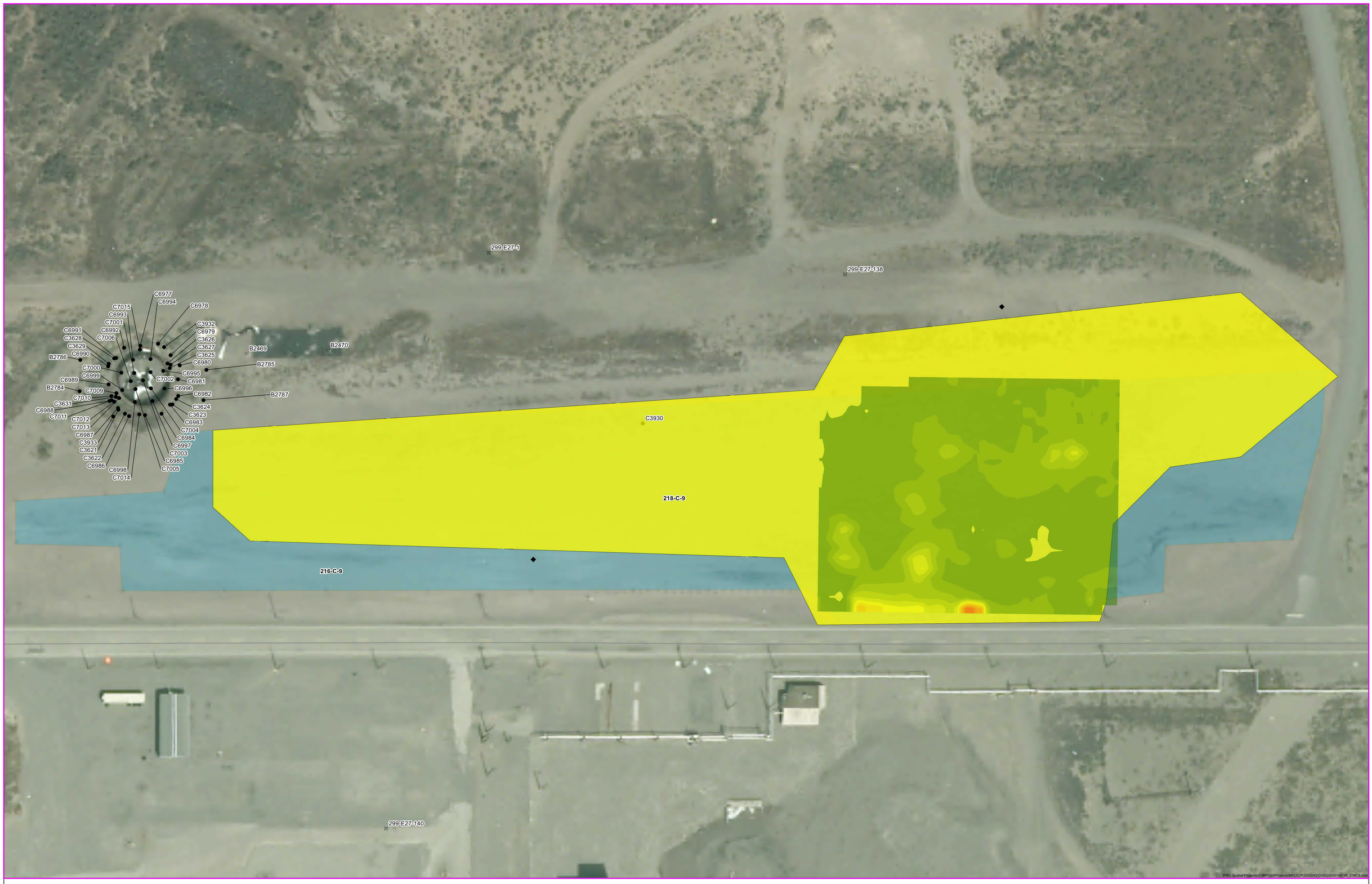
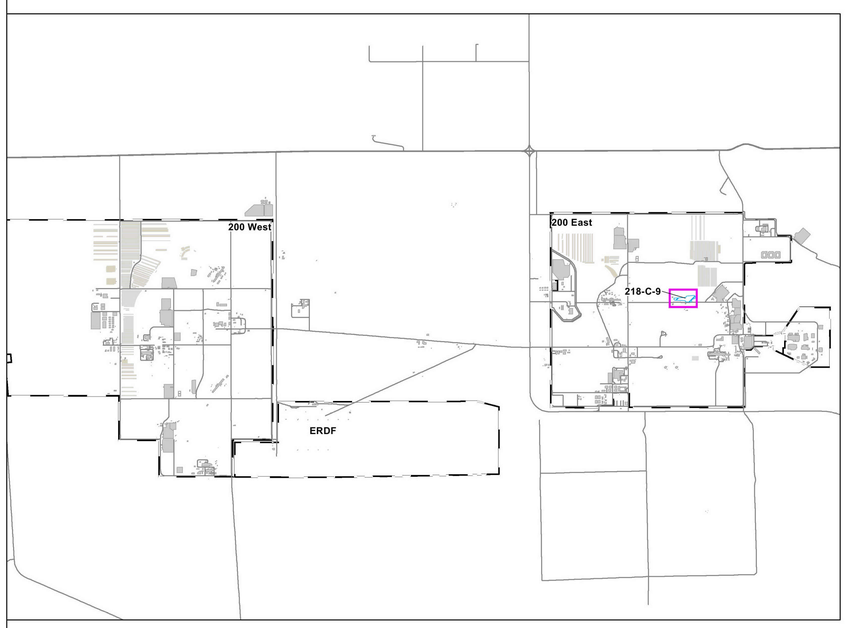




200-SW-2 Operable Unit Characterization





218-C-9 Landfill

Proposed Field Work Activities

- Direct Push Borehole
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Waste Site of Interest

- Operational Boundary
- Roads

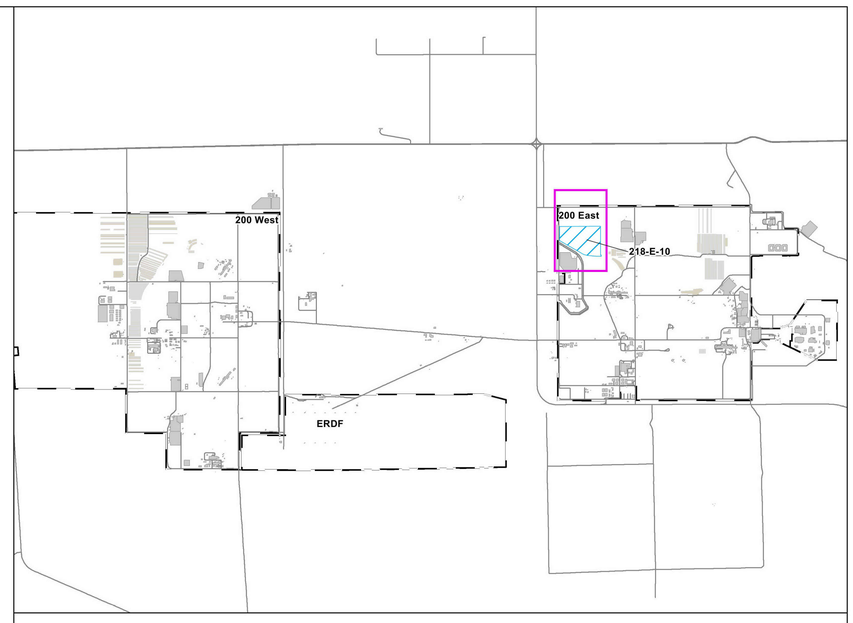
Notes:

- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 7.5 15 22.5 30 m

0 25 50 75 100 ft

CHSGW20140186



218-E-10 Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Proposed Field Work Activities

- Direct Push Borehole
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Post-August 19, 1987 Mixed Waste
- Radioactive Solid Waste

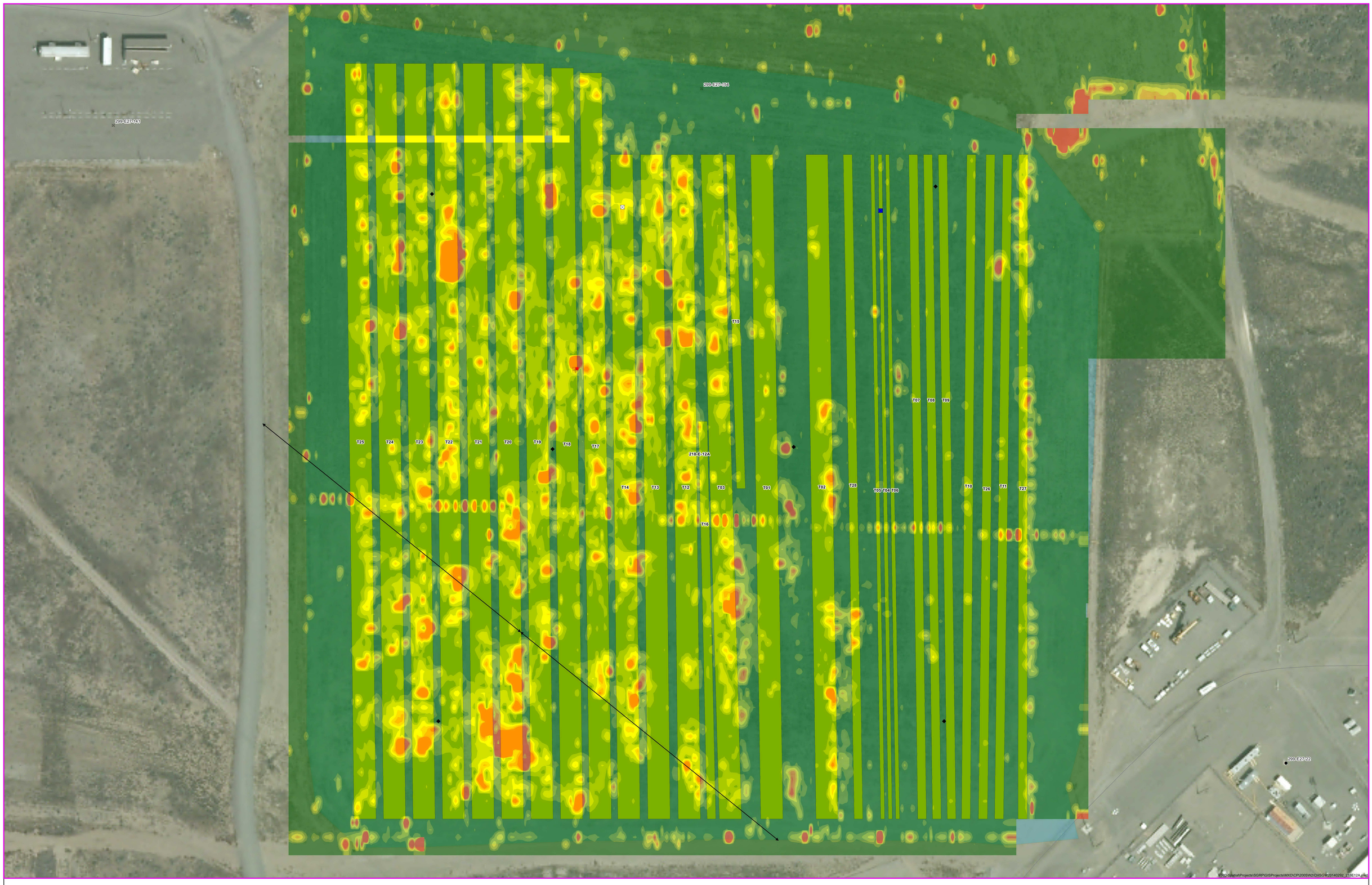
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Waste Site
- Operational Boundary
- Roads

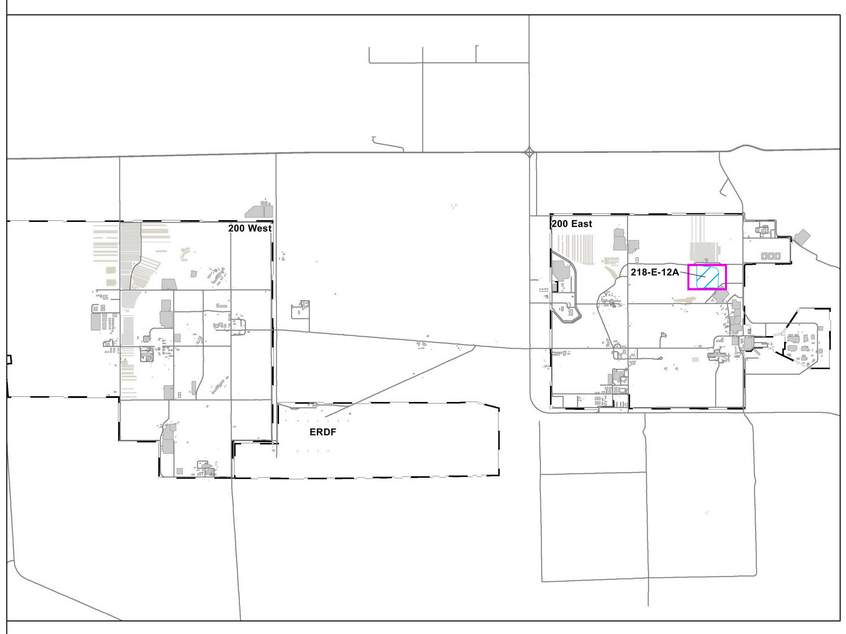
Notes:

- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 50 100 150 m
0 125 250 375 500 ft

CHSGW20140291





218-E-12A Landfill

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

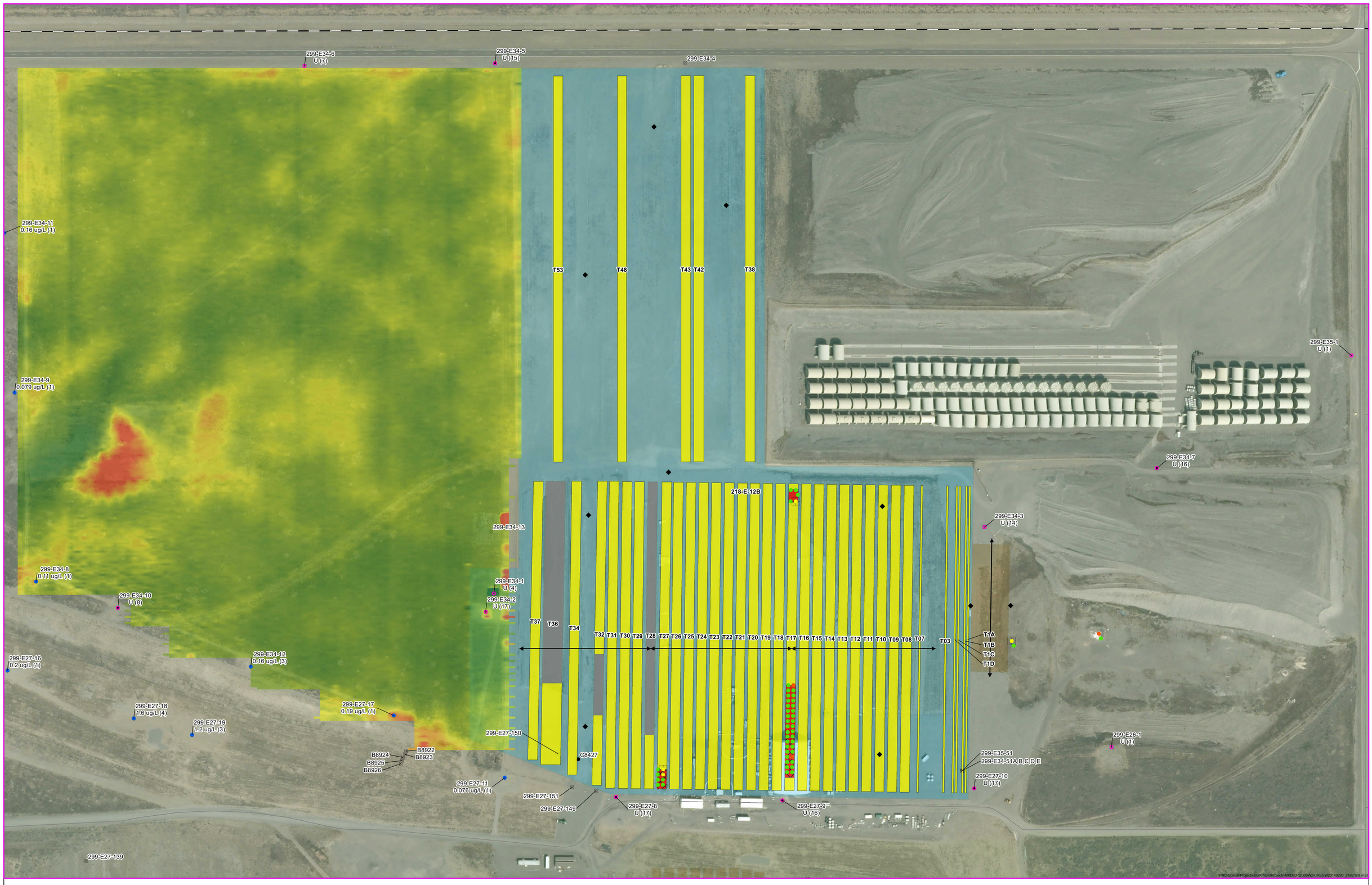
Notes:

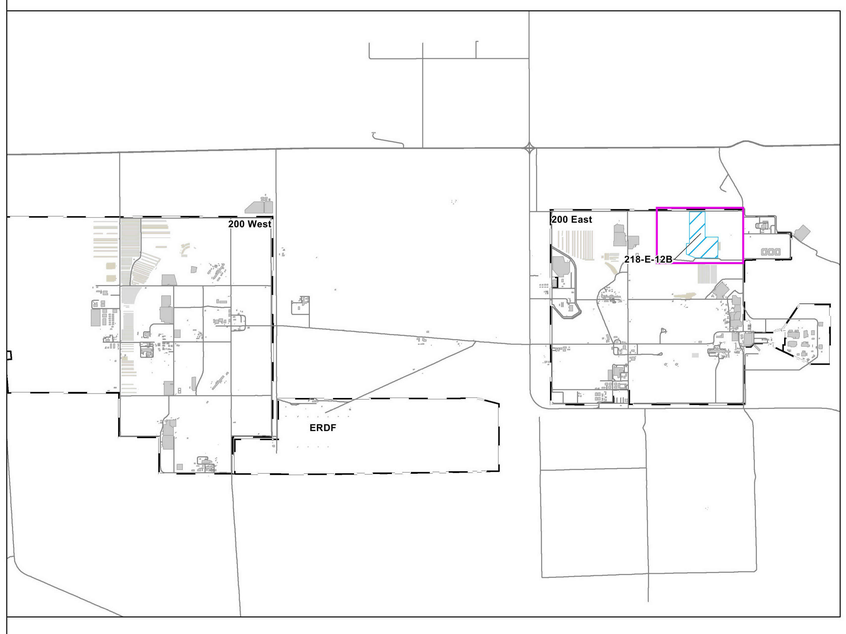
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 10 20 30 40 50 m

0 50 100 150 ft

CHSGW20140292





218-E-12B Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- TRU Stored Waste
- Radioactive Solid Waste
- Unused Trench Area
- Excavation
- Surrounding Burial Trenches
- Unused Waste Area
- Waste Site of Interest
- Operational Boundary
- Roads

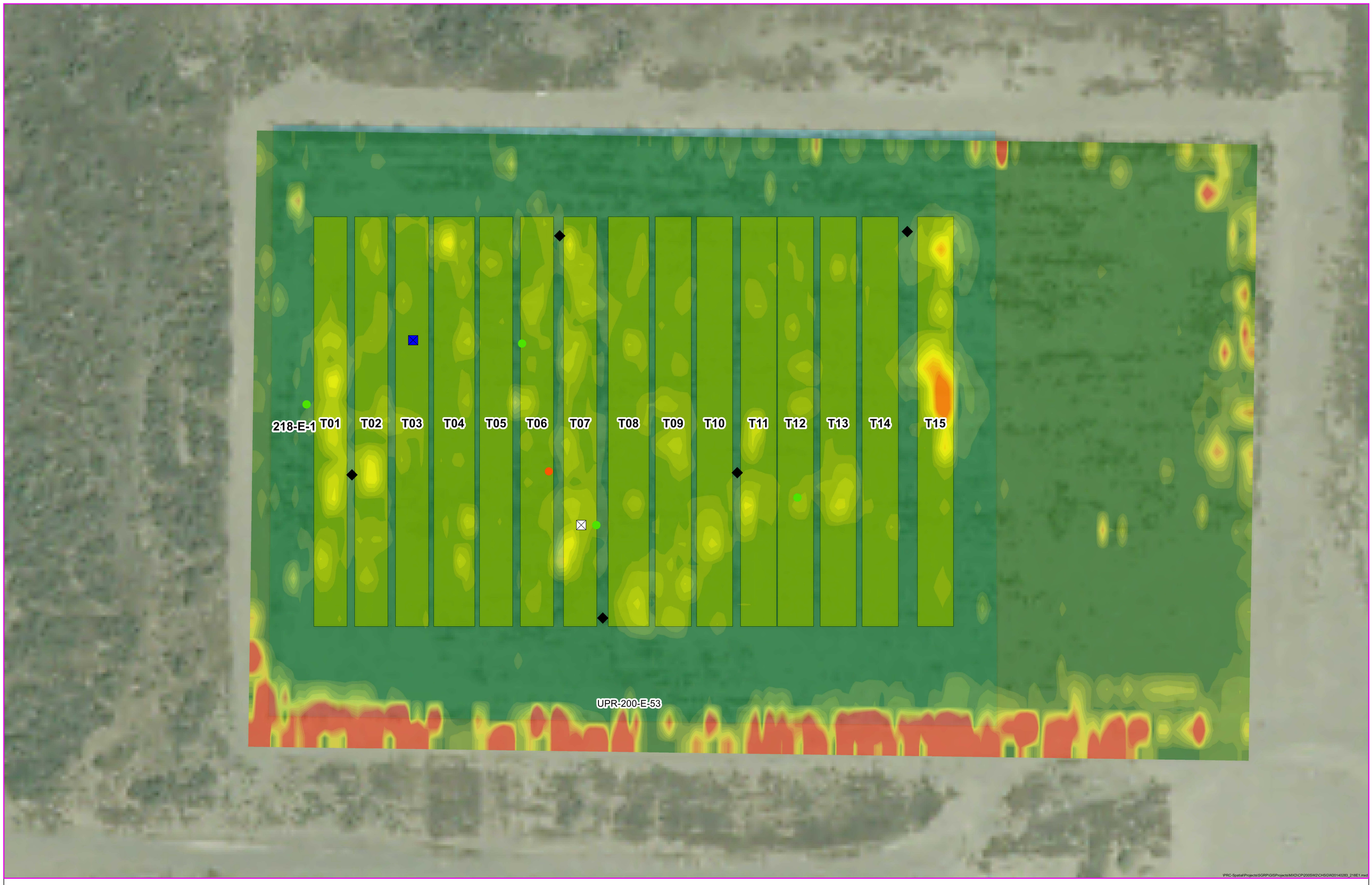
Notes:

- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 25 50 75 100 m

0 75 150 225 300 ft

CHSGW20140293



218-E-1 Landfill

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest

- Waste Site
- Operational Boundary
- Roads

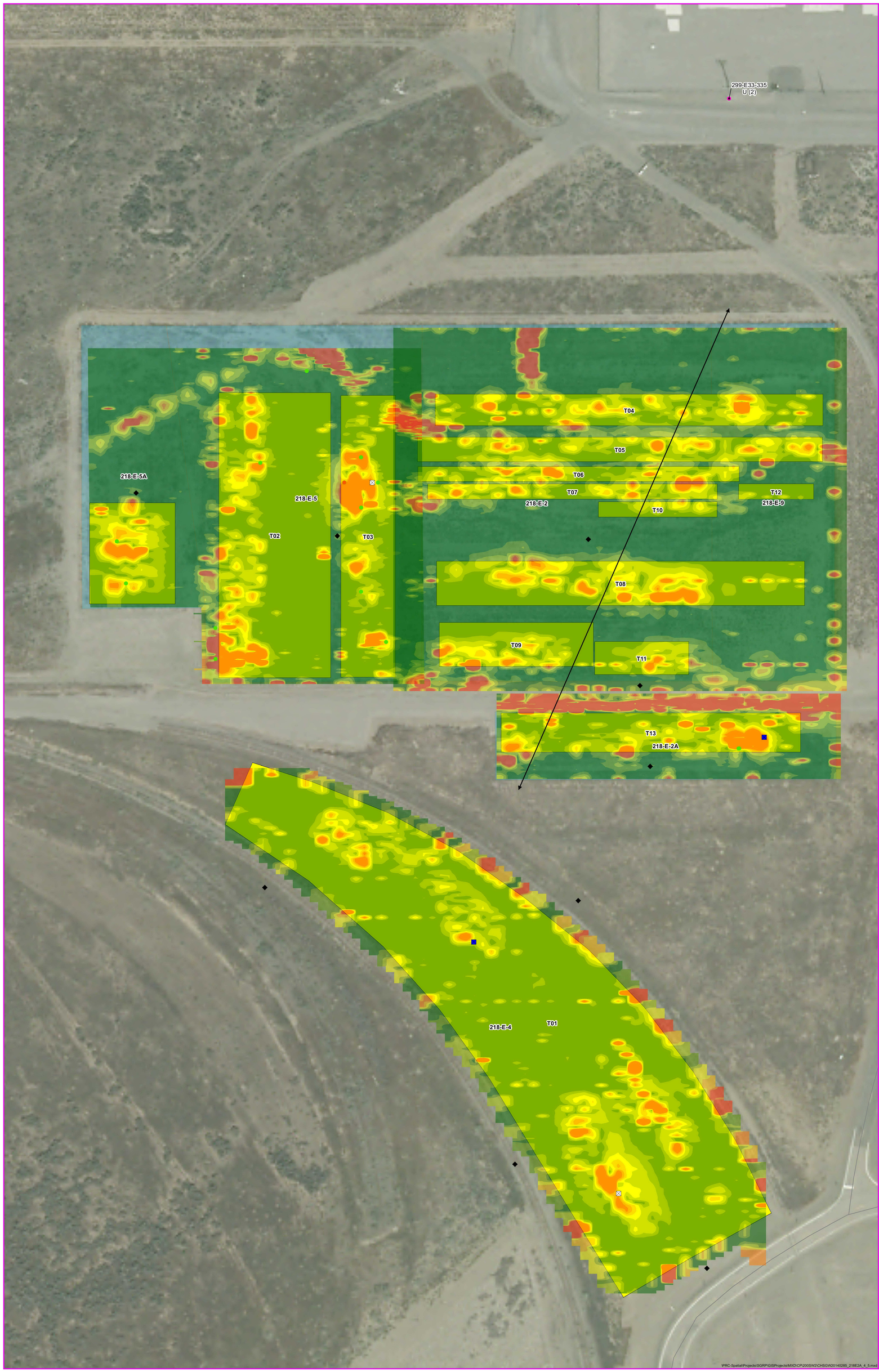
Notes:

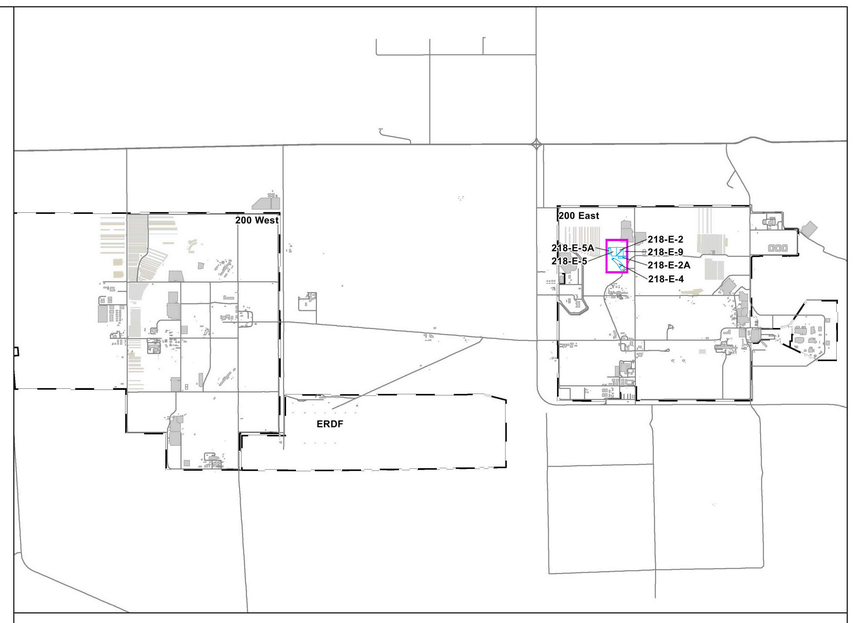
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 5 10 15 m

0 10 20 30 40 50 ft

CHSGW20140283





218-E-2, 2A, 4, 5, 5A, & 9 Landfills

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

Notes:

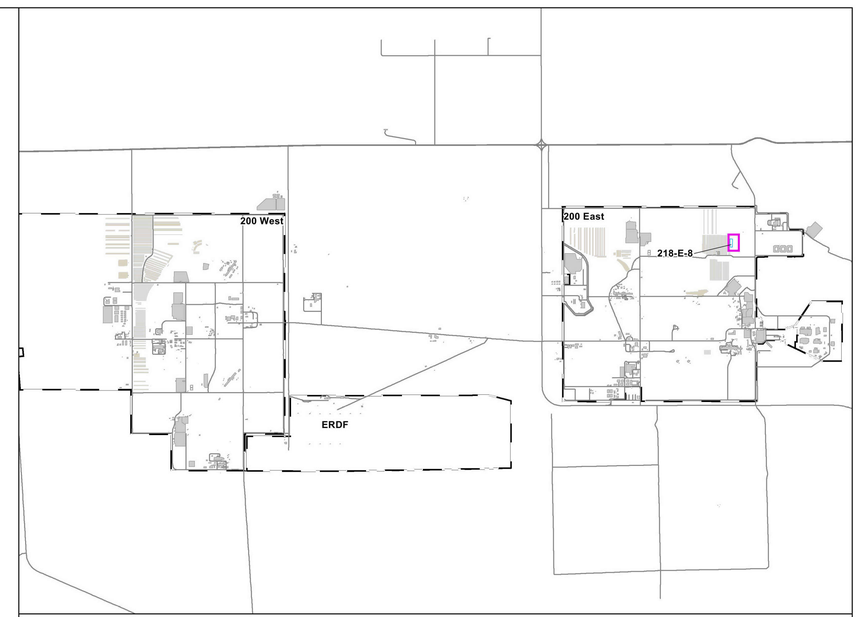
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 10 20 30 40 50 m

0 50 100 150 ft

CHSGW20140285

\\PRC-Spatial\Projects\SGRP\GISProjects\MXD\CP200SW2\CHSGW20140285_218E2A_4_5.mxd



218-E-8 Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Potential Burial Trench Location (see 1969 aerial image)
- Roads

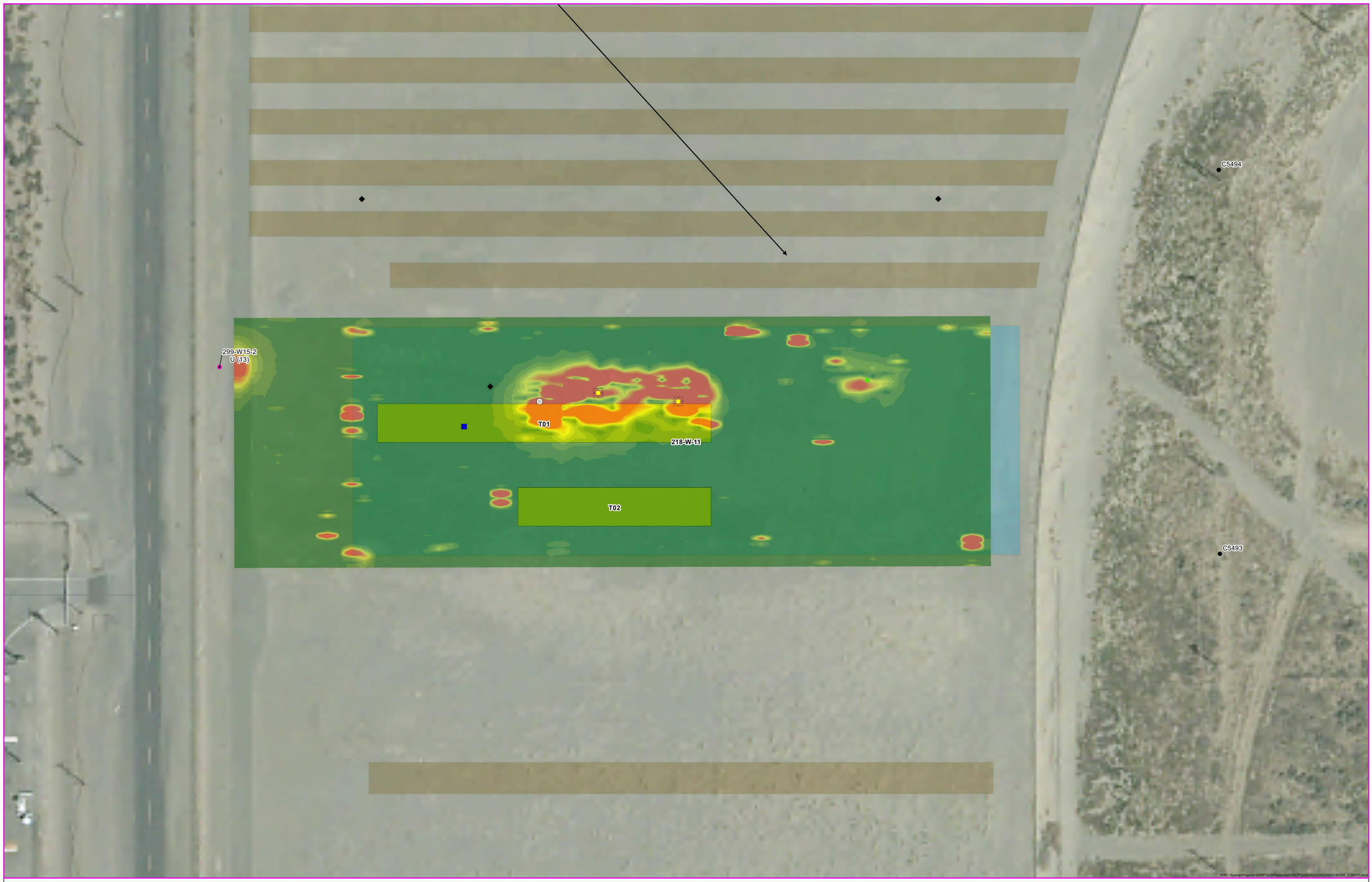
Notes:

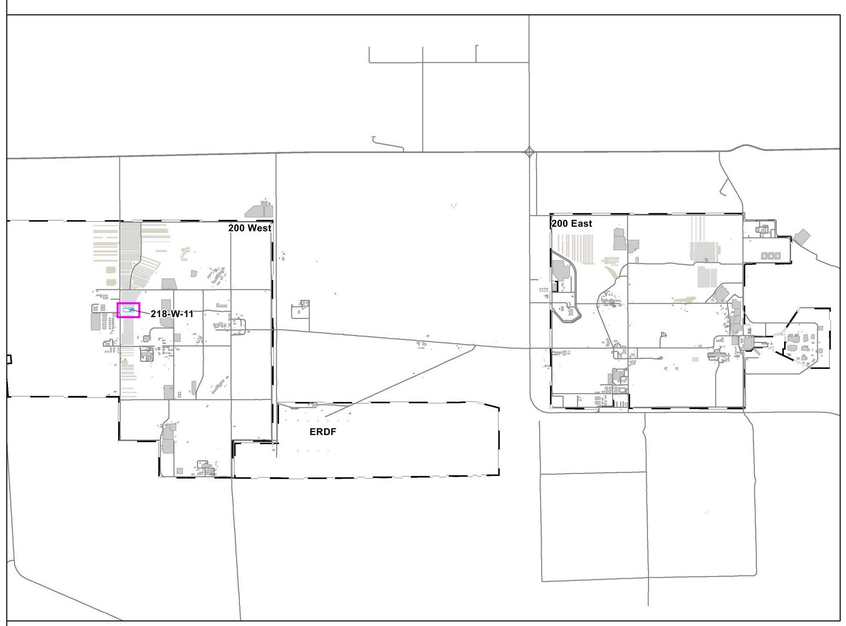
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 7.5 15 22.5 30 m

0 25 50 75 100 ft

CHSGW20140289





218-W-11 Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

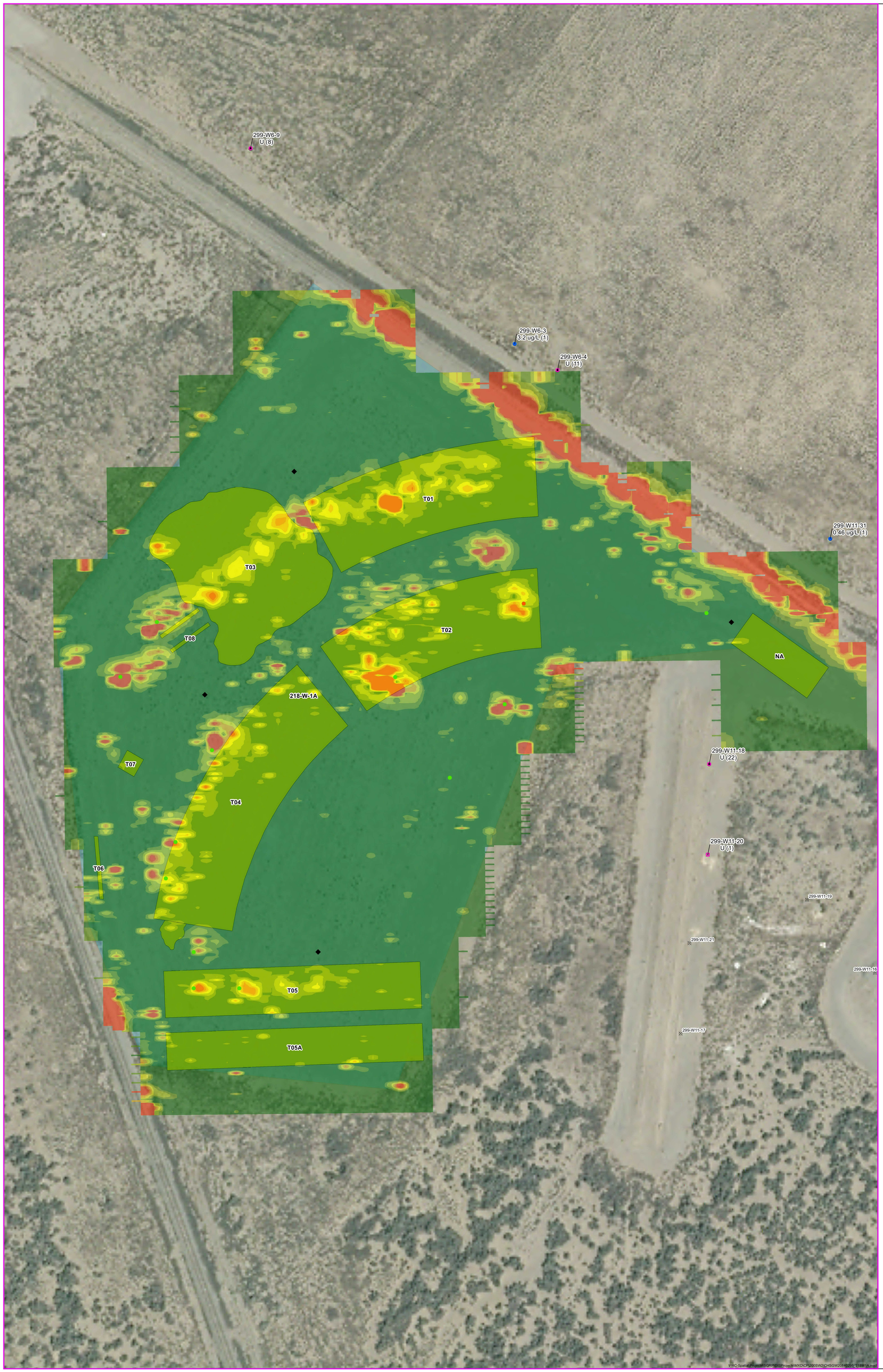
Notes:

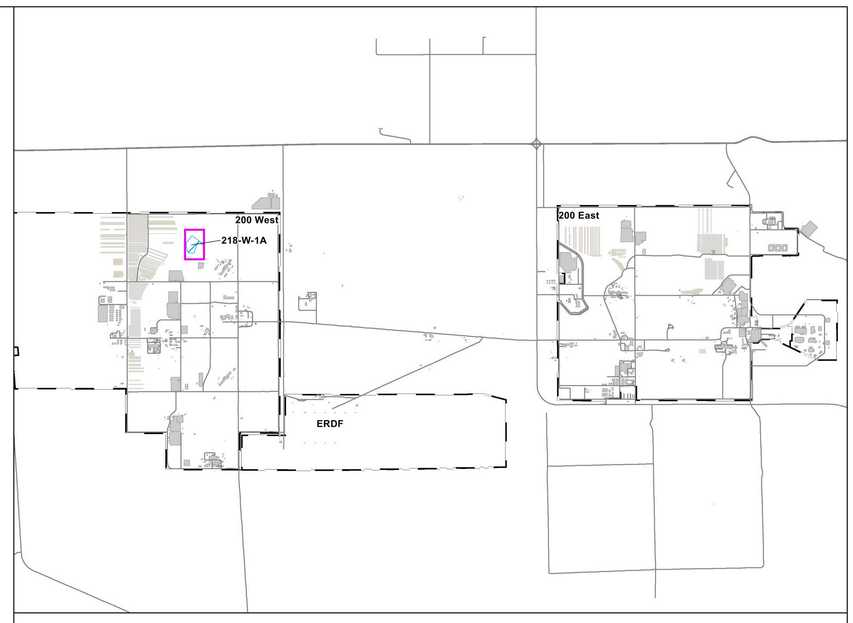
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 10 20 30 m

0 25 50 75 100 ft

CHSGW20140304





218-W-1A Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole

Well Locations

- In Use Location
- Decommissioned Location

Burial Trench Catagory

- Radioactive Solid Waste

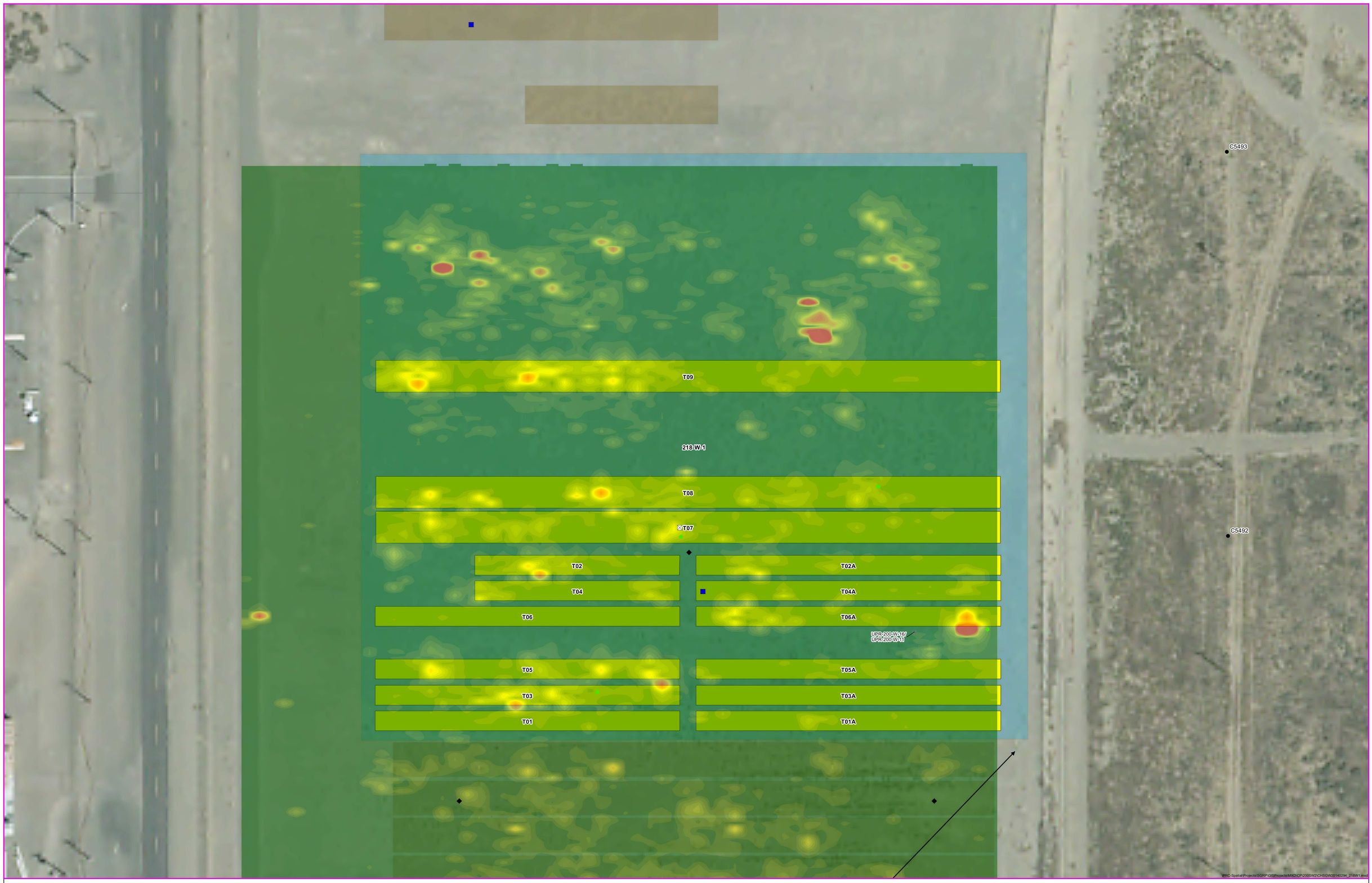
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

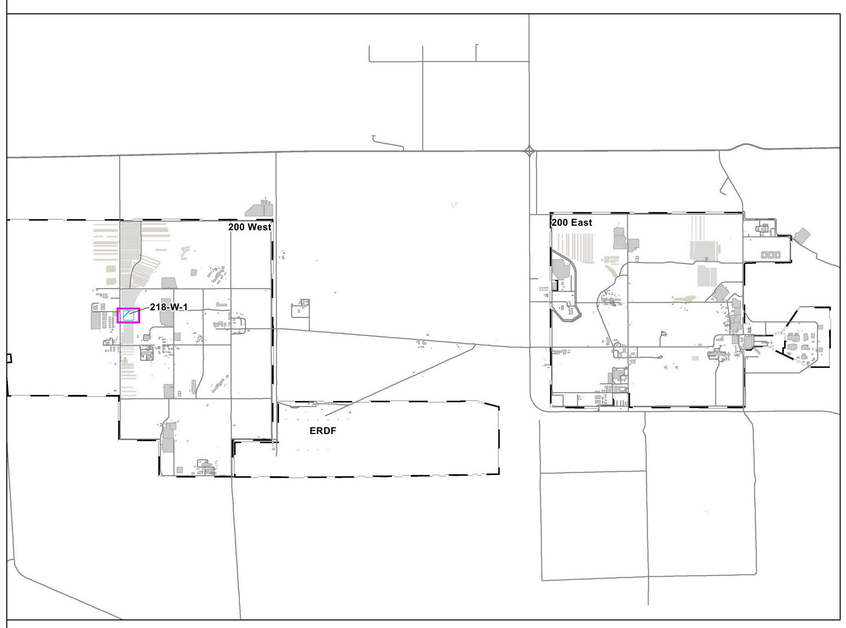
Notes:

- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 10 20 30 40 m
0 30 60 90 120 ft

CHSGW20140295





218-W-1 Landfill

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Waste Site
- Operational Boundary
- Roads

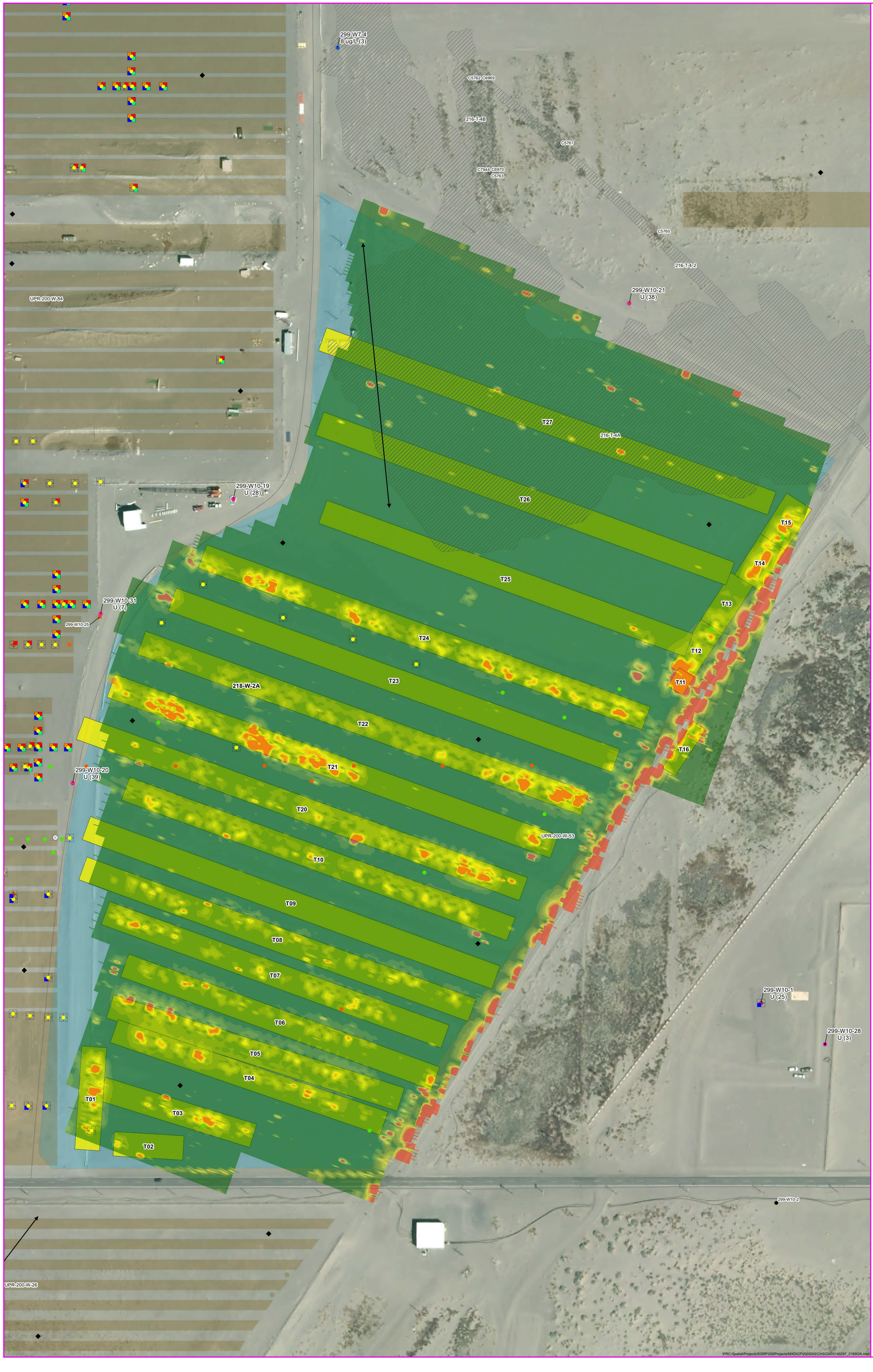
Notes:

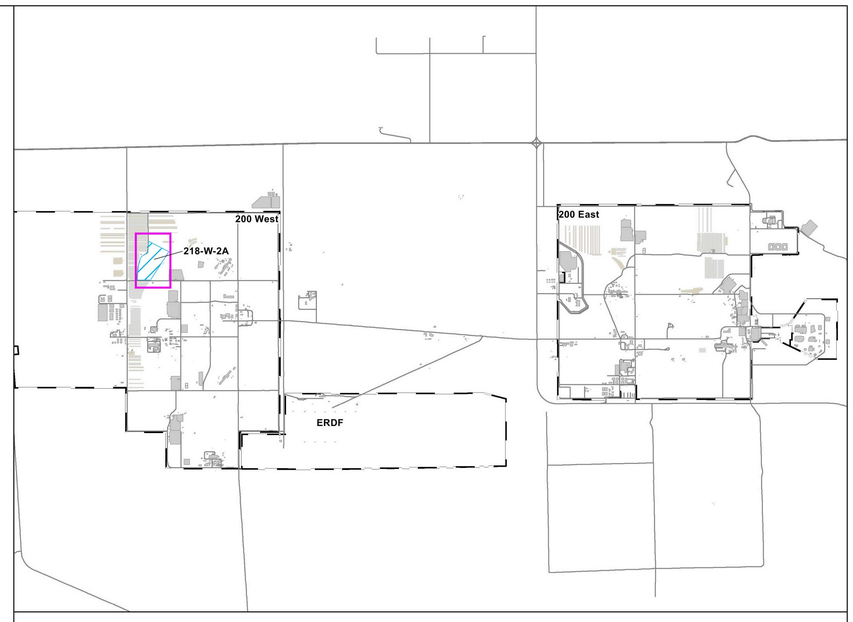
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 6 12 18 24 m

0 25 50 75 100 ft

CHSGW20140294





218-W-2A Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Waste Site
- Operational Boundary
- Roads

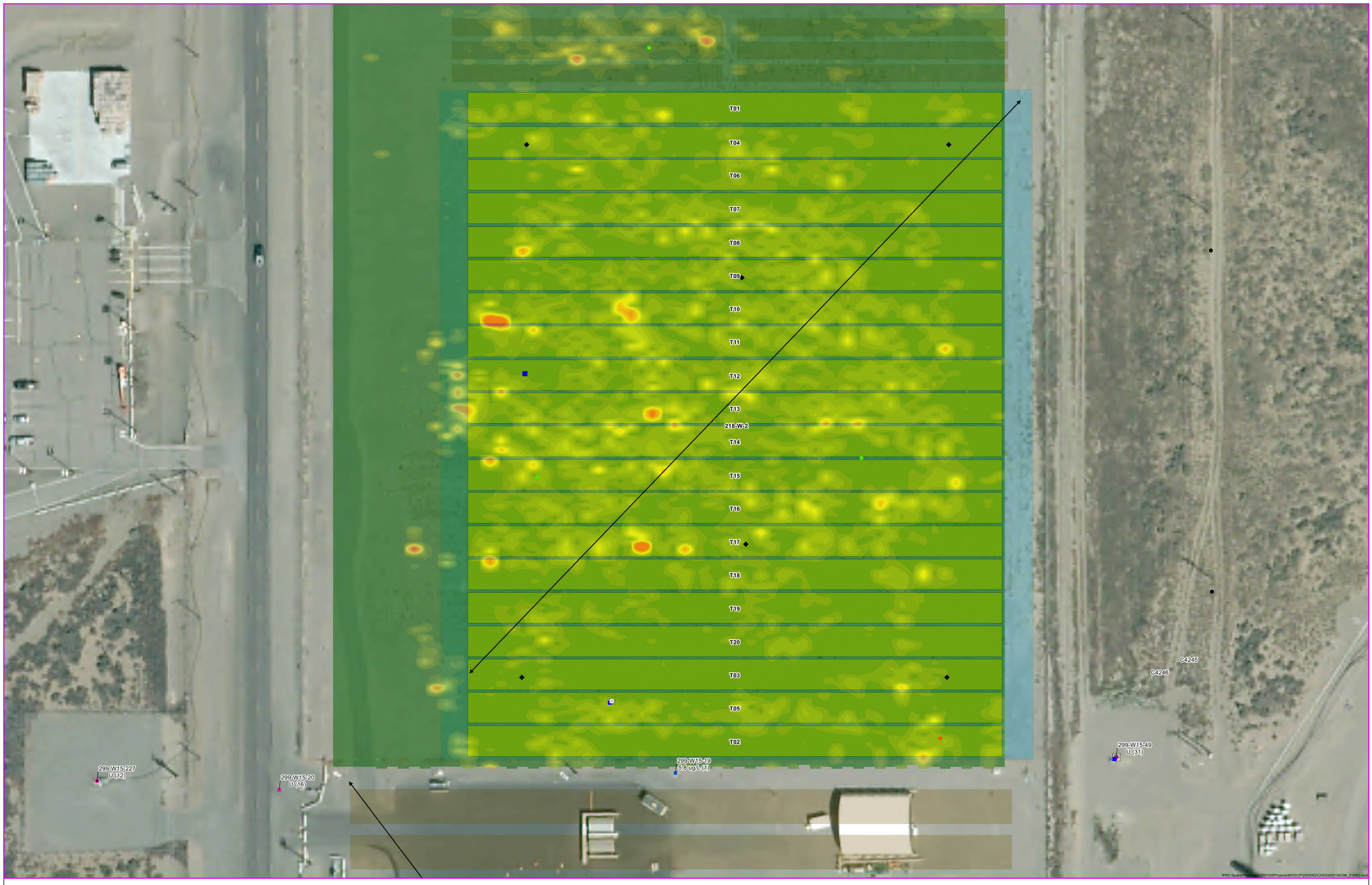
Notes:

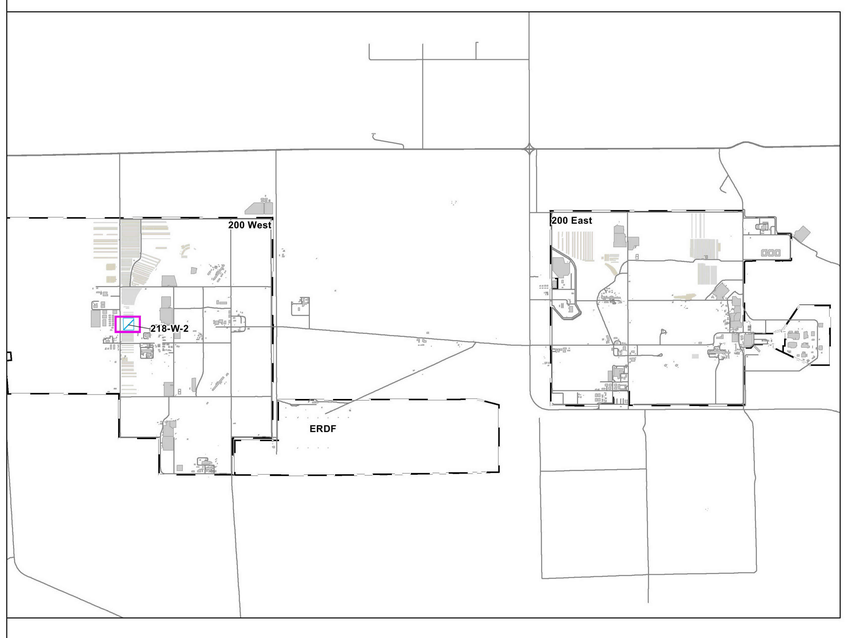
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 25 50 75 100 m

0 75 150 225 300 ft

CHSGW20140297





218-W-2 Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

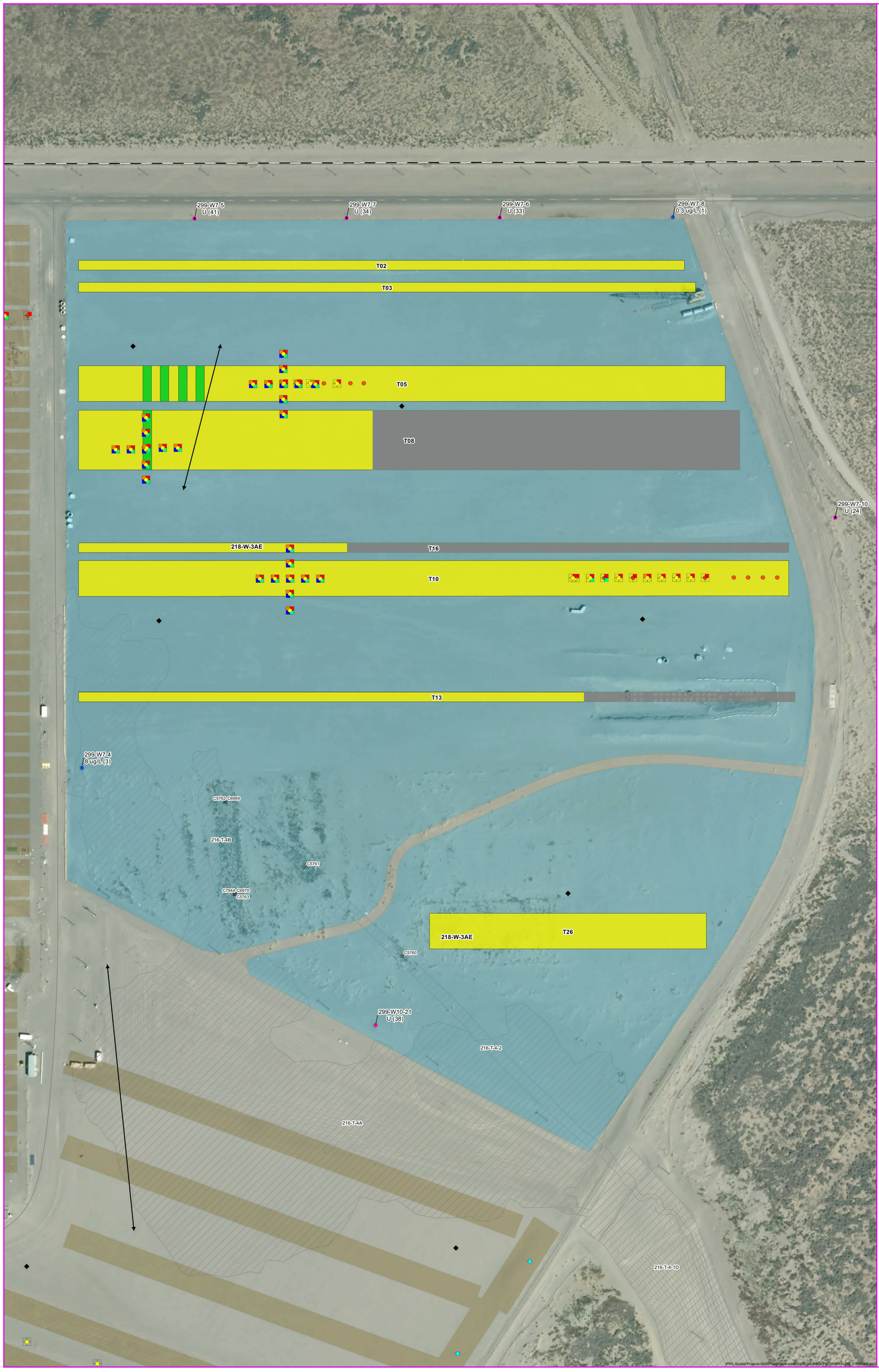
Notes:

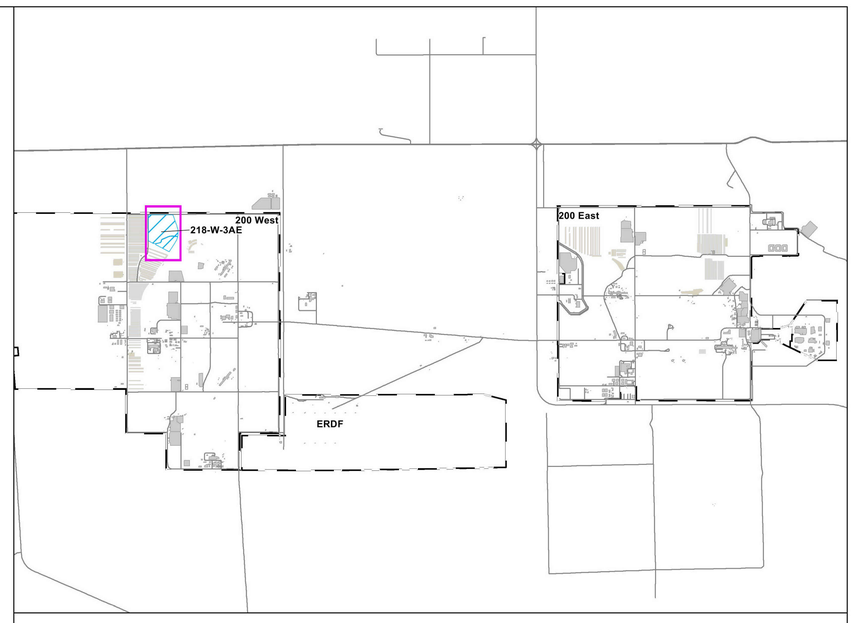
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 7.5 15 22.5 30 m

0 25 50 75 100 ft

CHSGW20140296





218-W-3AE Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location

Burial Trench Catagory

- Post-August 19, 1987 Mixed Waste
- Radioactive Solid Waste
- Unused Trench Area
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

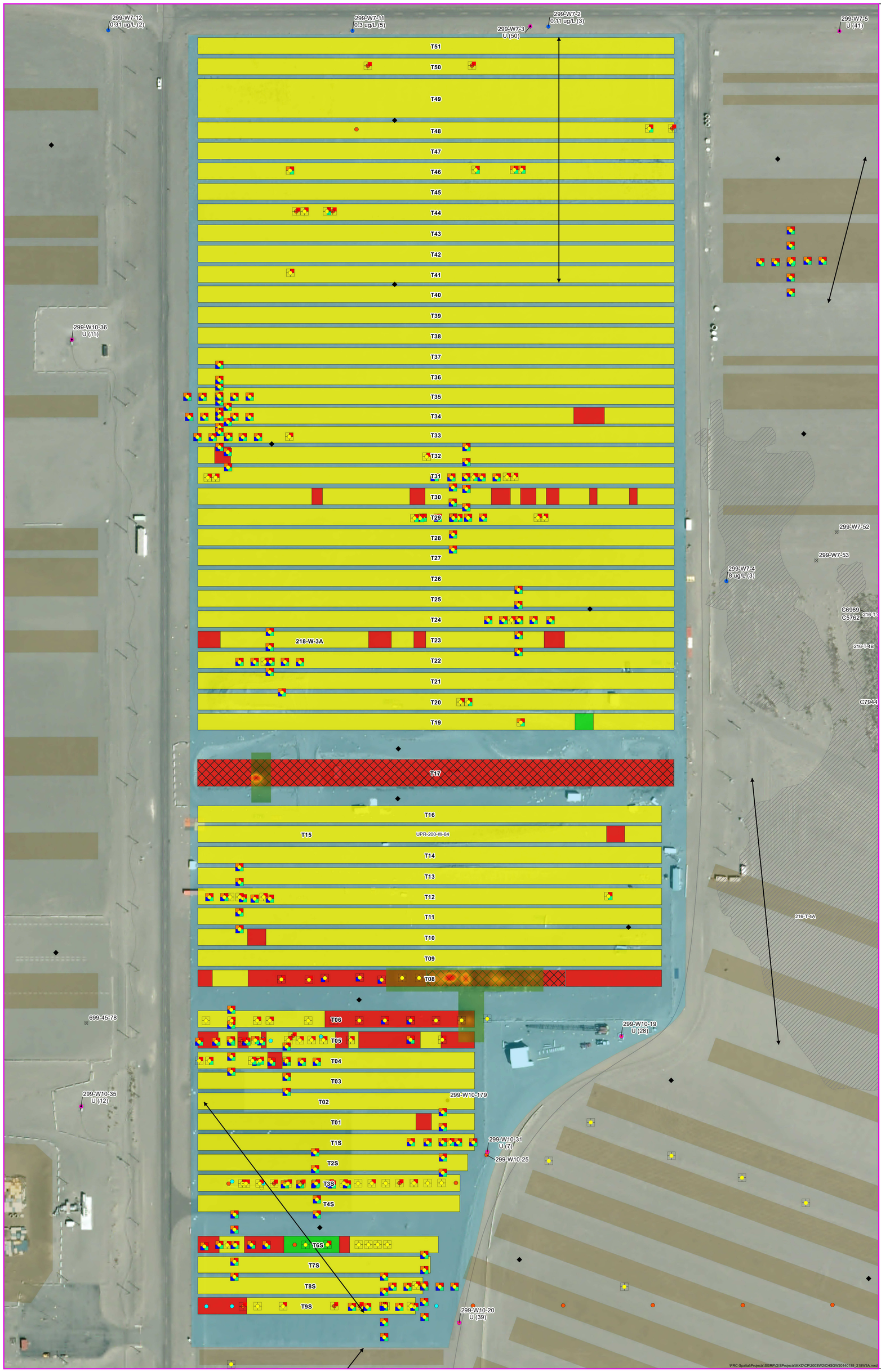
Notes:

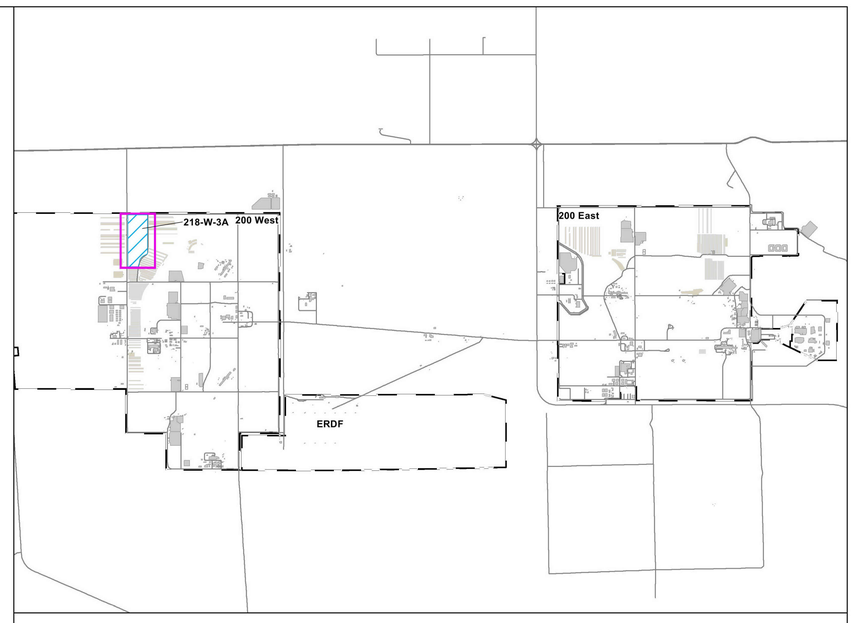
- Landfill boundary and trench locations are approximate.
- Aerial imagery from 2012.

0 25 50 75 100 m

0 75 150 225 300 ft

CHSGW20140299





218-W-3A Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas: no detects

Proposed Field Work Activities

- Direct Push Borehole
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Post-August 19, 1987 Mixed Waste
- TRU Stored Waste
- Radioactive Solid Waste
- Excavated Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Waste Site
- Operational Boundary
- Roads

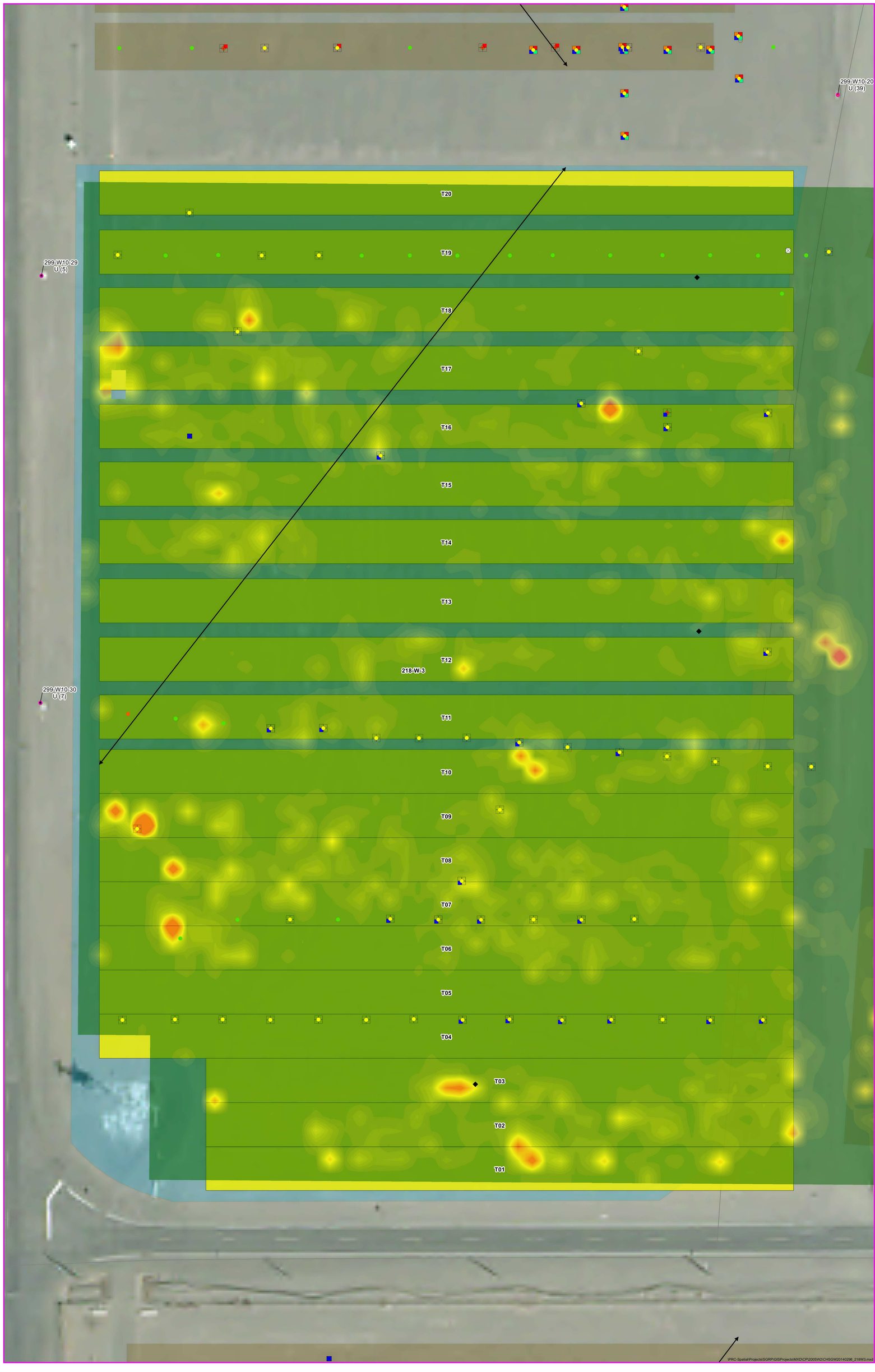
Notes:

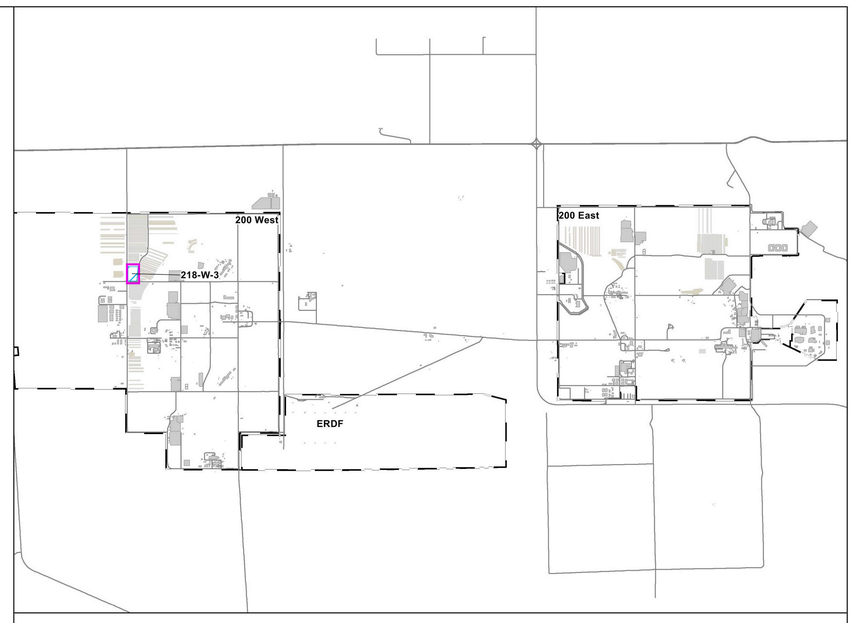
- Landfill boundary and trench locations are approximate.
- Geophysical survey results are shown as background colors in red (highest intensity signal), yellow (medium), and green (lowest). High intensity signals suggest the presence of natural objects, waste, or soil matrices with high electrical conductivity.
- Aerial imagery from 2012.

0 25 50 75 100 m

0 75 150 225 300 ft

CHSGW20140185





218-W-3 Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location

Burial Trench Catagory

- Radioactive Solid Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

Notes:

- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 7.5 15 22.5 30 m

0 25 50 75 100 ft

CHSGW20140298

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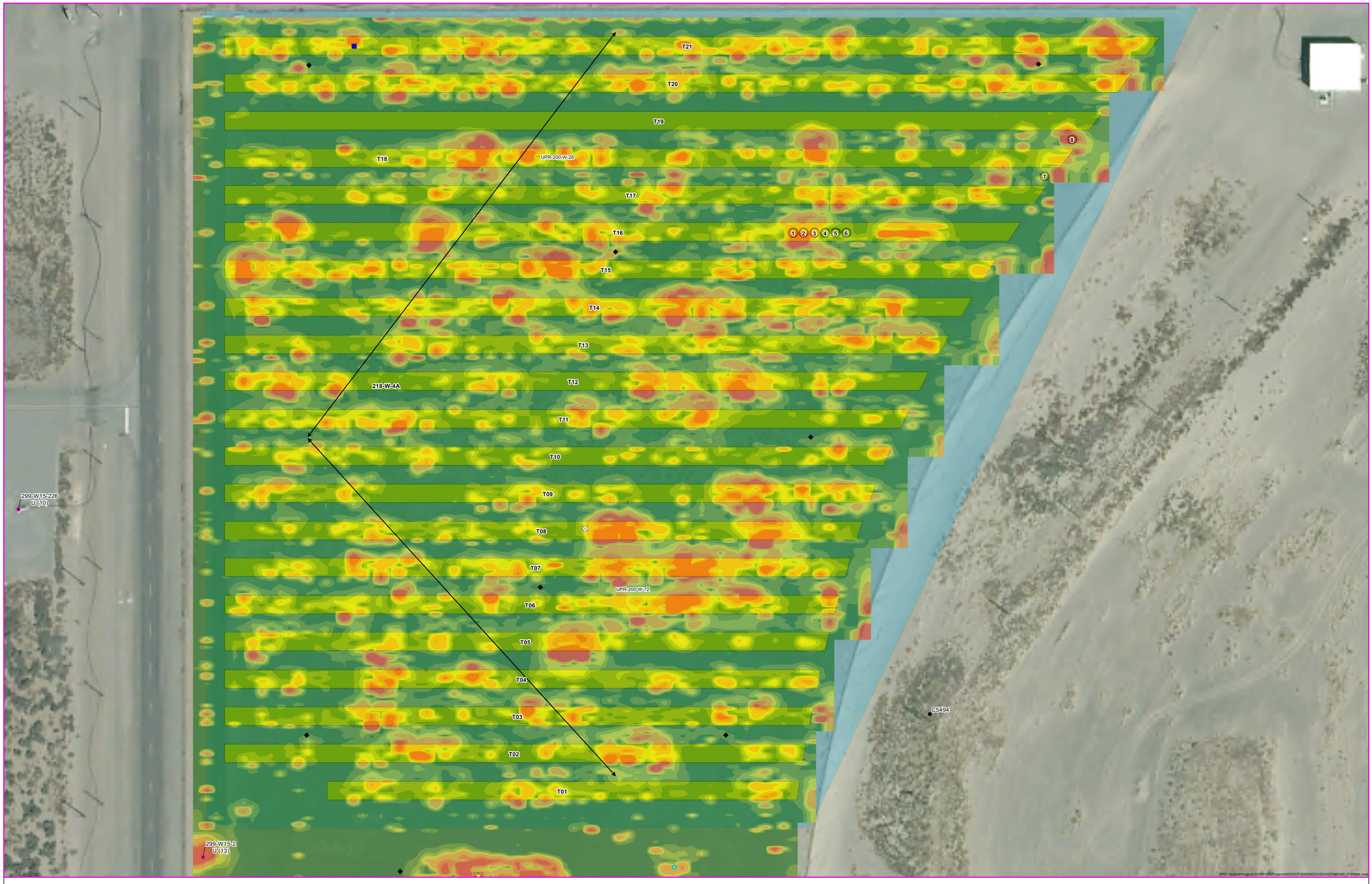
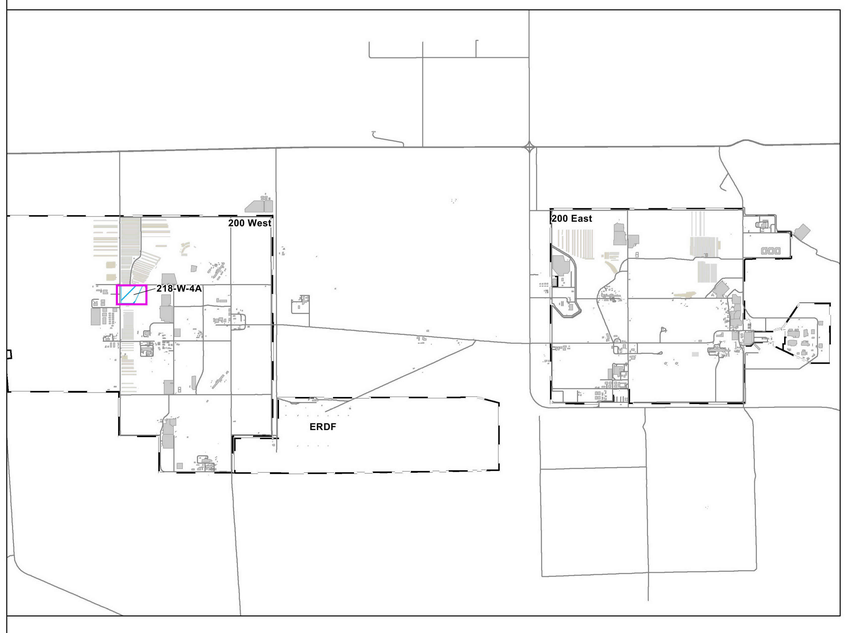




218-W-4A Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Radioactive Solid Waste
- Caisson
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Waste Site
- Operational Boundary
- Roads

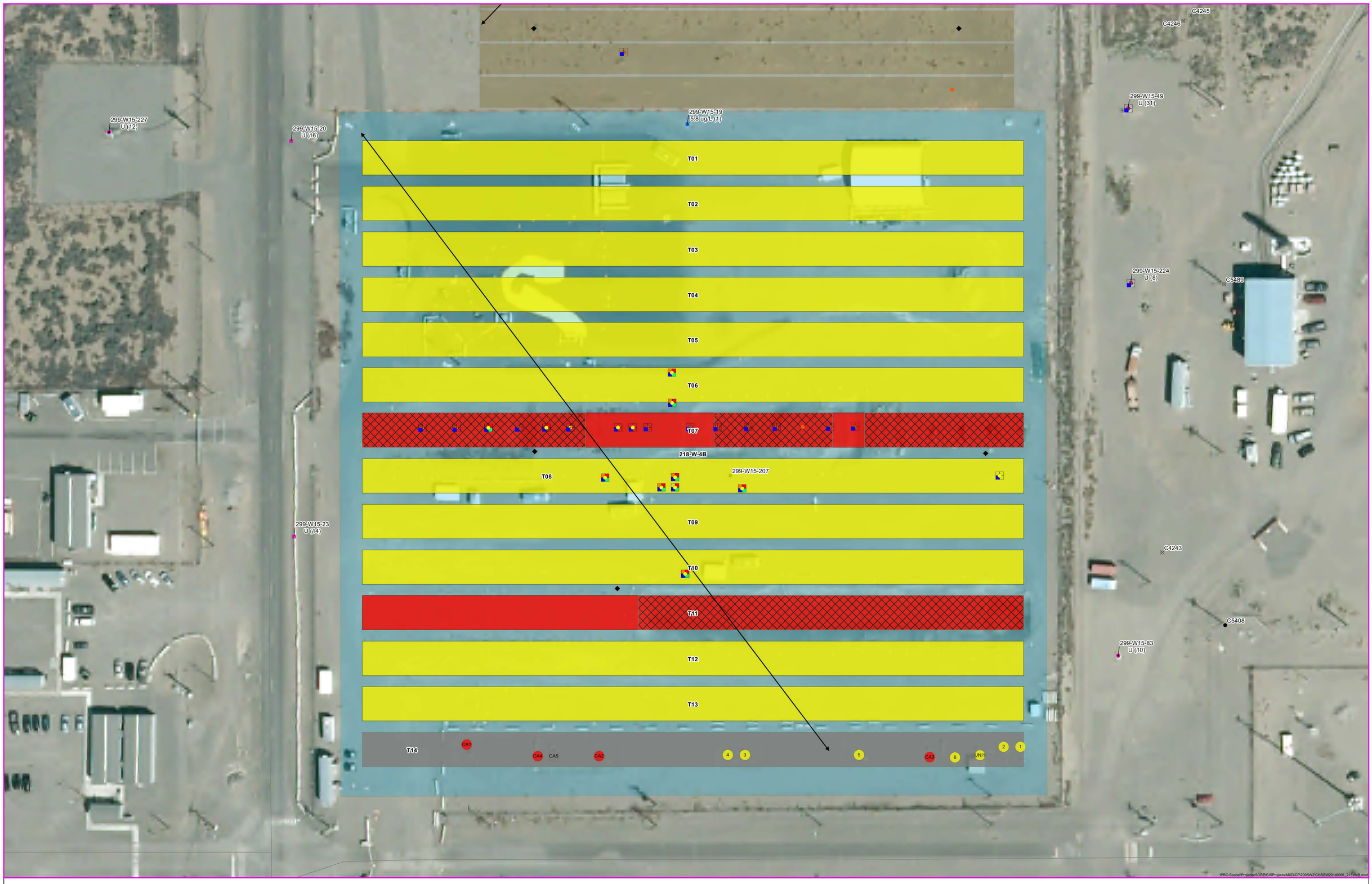
Notes:

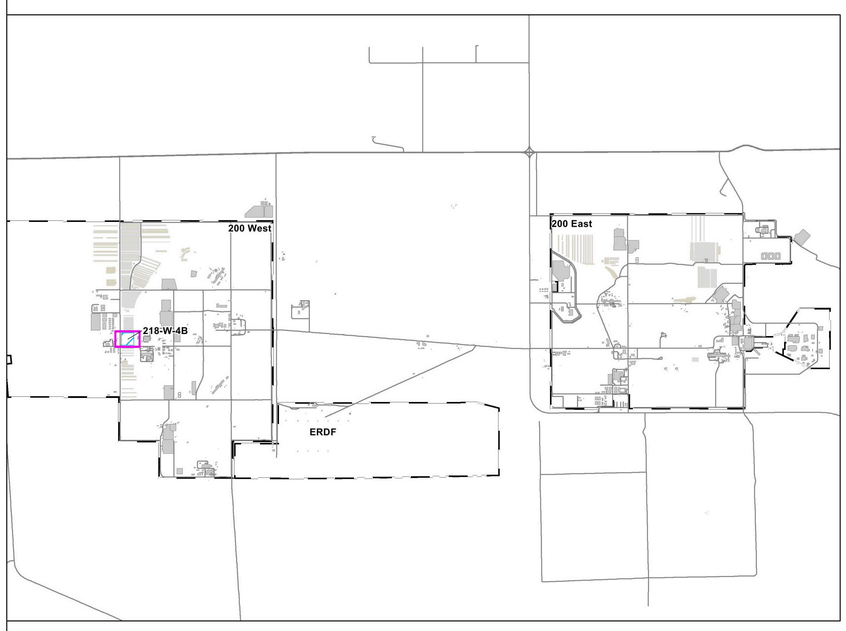
- Landfill boundary and trench locations are approximate.
- Geophysical survey results are shown as background colors in red (highest intensity signal), yellow (medium), and green (lowest). High intensity signals suggest the presence of natural objects, waste, or soil matrices with high electrical conductivity.
- Aerial imagery from 2012.

0 10 20 30 40 50 m

0 50 100 150 ft

CHSGW20140300





218-W-4B Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- TRU Stored Waste
- Radioactive Solid Waste
- Unused Trench Area
- Excavated Waste
- Caisson: Red = Alpha; Yellow = LLW
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

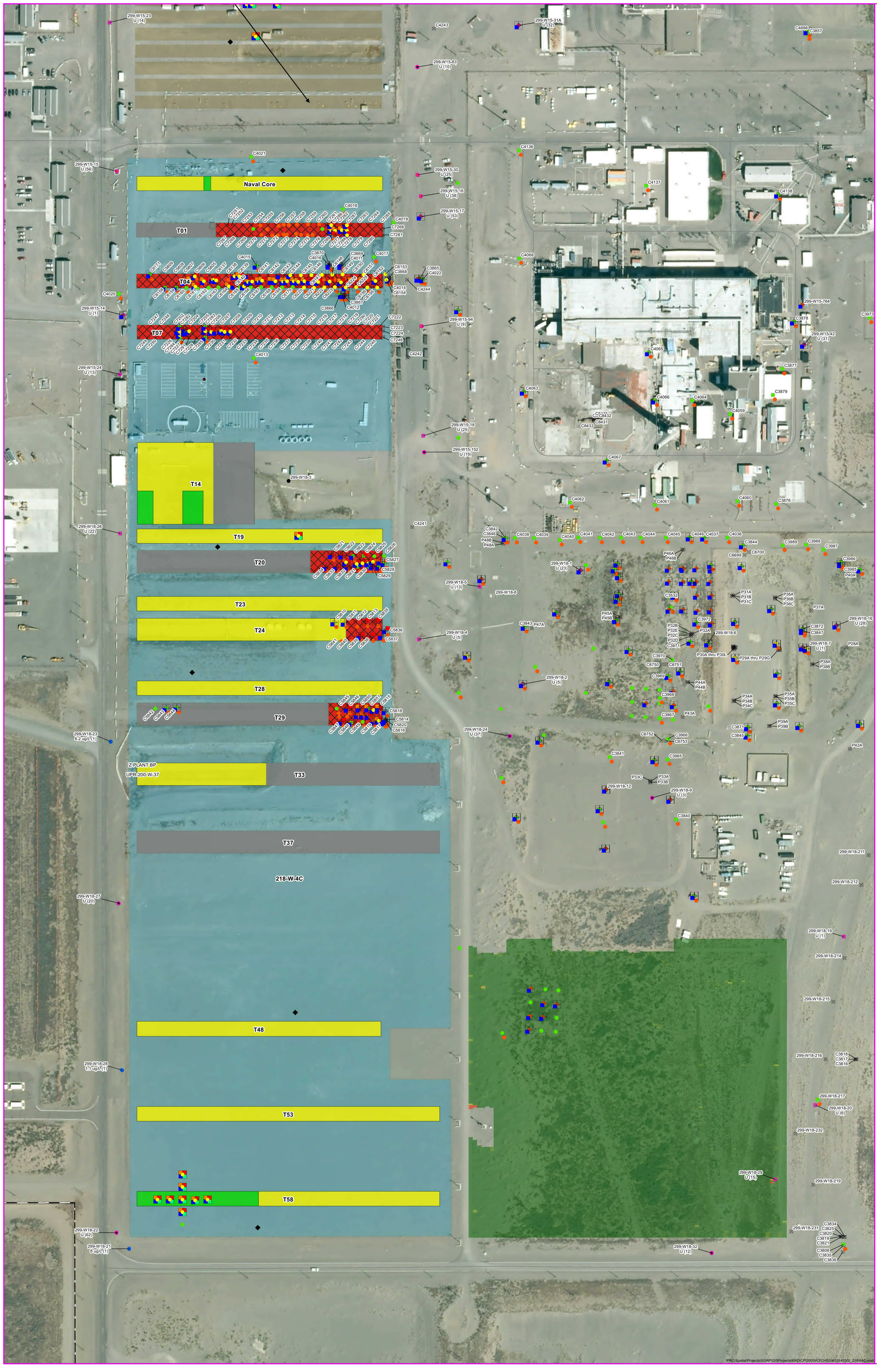
Notes:

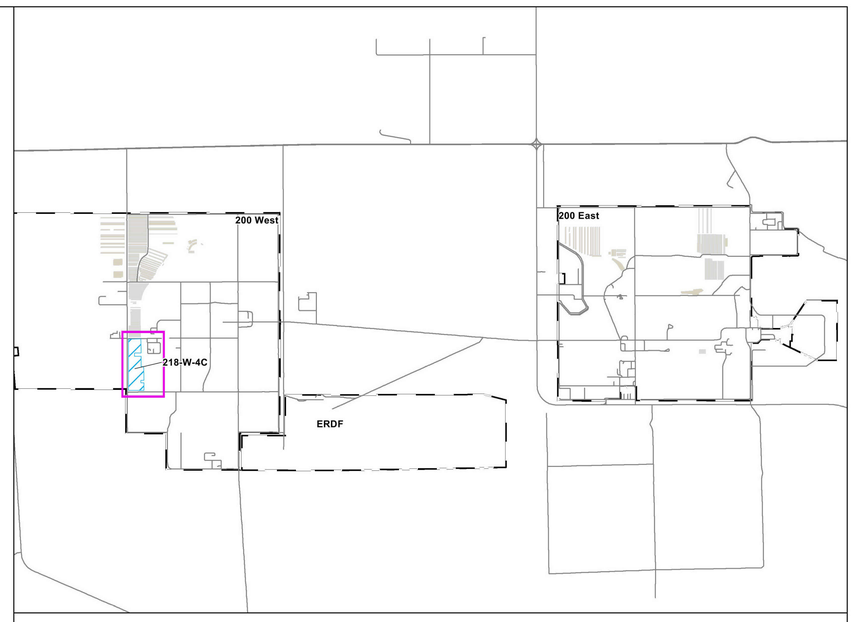
- Landfill boundary and trench locations are approximate.
- Aerial imagery from 2012.

0 10 20 30 m

0 25 50 75 100 ft

CHSGW20140301a





218-W-4C Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location

Burial Trench Catagory

- Post-August 19, 1987 Mixed Waste
- TRU Stored Waste
- Radioactive Solid Waste
- Unused Trench Area
- Excavated Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Waste Site
- Operational Boundary
- Roads

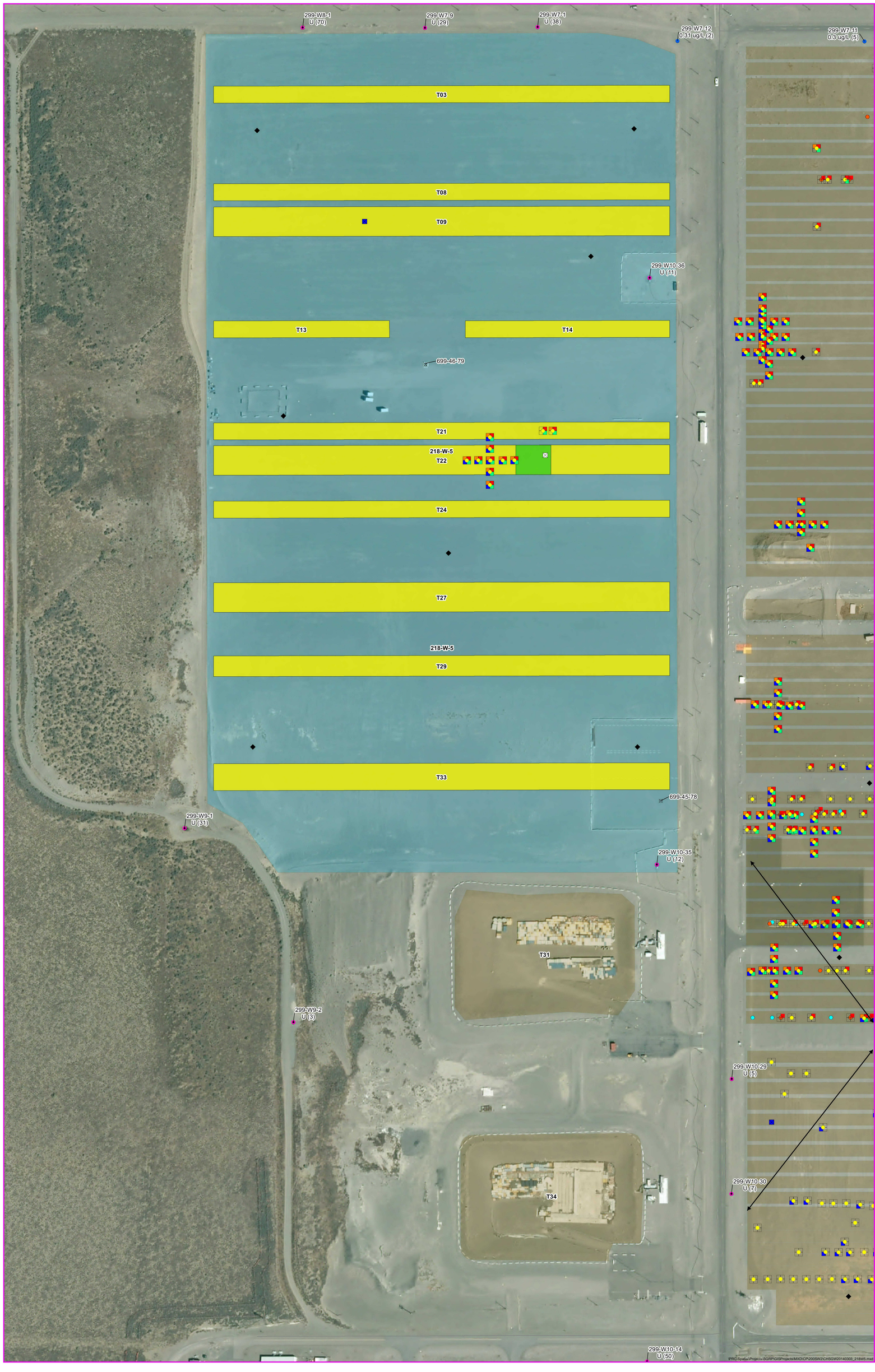
Notes:

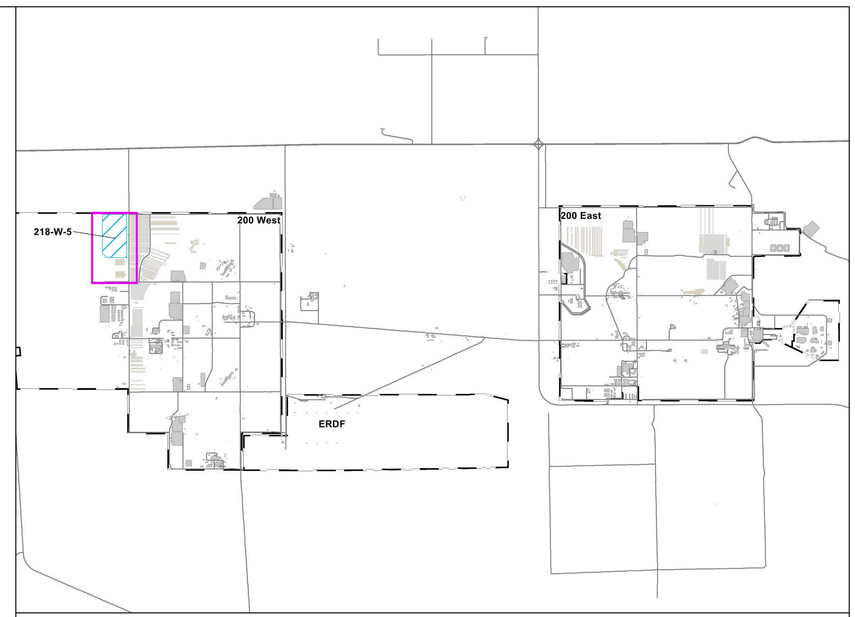
- Landfill boundary and trench locations are approximate.
- Red/Yellow/Green shading represents approximate location of a geophysical survey performed at the given location. Red represents high values; Green represents low values.
- Aerial imagery from 2012.

0 25 50 75 100 m

0 75 150 225 300 ft

CHSGW20140302a





218-W-5 Landfill

Groundwater Data

- 1,1,1-TCA Detect
- 1,1,1-TCA Non-Detect

Well Label = Well Name
max concentration or U (total number of detects or if U, total number of samples)

Specific Detected Soil Gas Contaminants

- 1,1,1-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- Carbon tetrachloride
- Tetrachloroethene

Soil Gas Locations

- Points with Detects
- Sampled for soil gas; no detects

Proposed Field Work Activities

- Direct Push Borehole
- Focused Test Pit
- Random Test Pit
- Horizontal Boring

Well Locations

- In Use Location
- Decommissioned Location
- Proposed Location

Burial Trench Catagory

- Radioactive Solid Waste
- Post-August 19, 1987 Mixed Waste
- Unused Waste Area
- Surrounding Burial Trenches
- Waste Site of Interest
- Operational Boundary
- Roads

Notes:

- Landfill boundary and trench locations are approximate.
- Aerial imagery from 2012.

0 40 80 120 m

0 100 200 300 400 500 ft

CHSGW20140303a

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