A dramatic sunset scene over a snowy landscape. The sky is filled with dark, heavy clouds, with a bright, glowing sun breaking through in the center, casting a golden light across the scene. The sun is low on the horizon, creating a long, horizontal glow. In the foreground, a dark silhouette of a dog is walking across the snow. To the right, there are several vertical wooden posts, possibly remnants of a fence or a marker. The overall mood is serene and quiet.

St. Paul Island
Long-Term Groundwater Monitoring Plan

St. Paul Monitoring Wells

- 87 wells located at 8 sites on the island
- Wells provide data on groundwater contaminant concentration, fate, and transport
- Wells also provide a potential conduit for introducing contaminants to groundwater and impede the use of land

St. Paul Long-Term Groundwater Monitoring Plan

Wells will be:

- Retained for long-term monitoring
 - Trend monitoring (exceed ADEC criteria)
 - Sentinel monitoring (currently “clean” wells)
- Decommissioned

OR

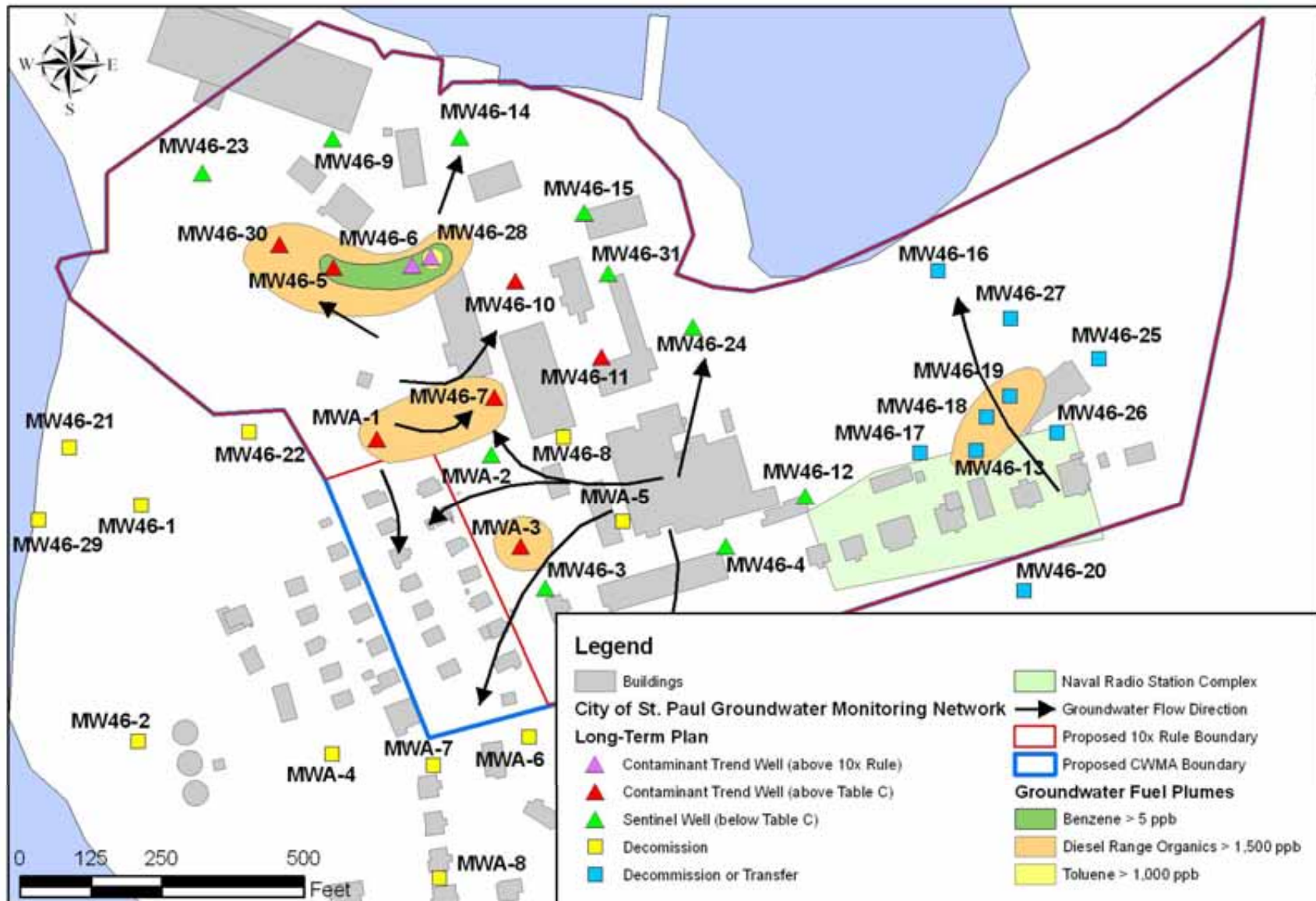
- Transferred to other parties



City of St. Paul

City of St. Paul Wells

- Currently 39 groundwater monitoring wells
 - Retain 10 wells for sentinel monitoring
 - Sample sentinel wells semiannually
 - Retain 9 wells for contaminant trend monitoring
 - Sample trend wells annually
 - Decommission 11 wells
 - Transfer or decommission 9 FUDS/3rd party wells



Figure

2-3

Groundwater Monitoring Network
City of St. Paul
St. Paul Island, Alaska

Sources: Well locations, Buildings, and Groundwater Boundaries (NOAA GIS 2005), Plume locations and Groundwater Flow (Mitretek 2005).

City of St. Paul Wells

- Retained wells to be monitored for 5 years
 - Evaluate data and recommend follow-up sampling at end of 5-year period
- Analytes will be those found in Tract 46 above ADEC criteria
 - GRO, DRO, benzene, and toluene

City of St. Paul Wells

- Decommission wells in accordance with ADEC regulations
- Offer for transfer wells in FUDS areas
 - NOAA cannot fund maintenance of wells for use in FUDS or third-party sites
 - Transferred wells may be useful for future FUDS or third party remediation work

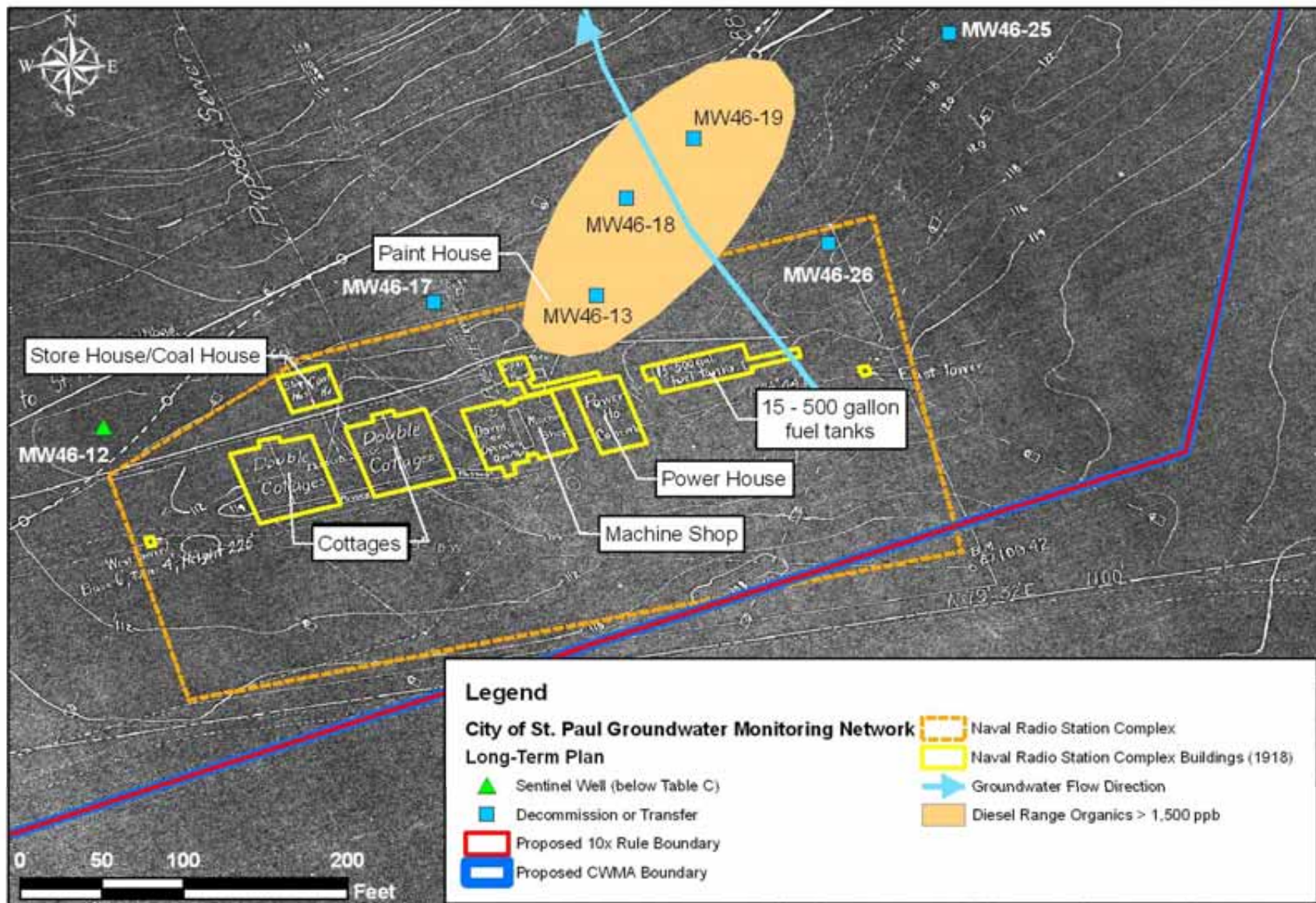


Figure
2-4

Groundwater Monitoring Network
Naval Radio Station Complex
St. Paul Island, Alaska

Sources: NOAA Pribilof Project GIS (2005), Groundwater Plume and Flow Direction (Mitretek 2005), Naval Radio Station Historical Map (A.C. Reynolds, 1918, based on 1917 surveys by William Hayne).



Salt Lagoon Diesel Seep



Salt Lagoon Diesel Seep

- Currently 5 groundwater monitoring wells
 - Retain 1 well for sentinel monitoring
Sample sentinel well semiannually
 - Retain 1 well for contaminant trend monitoring
Sample trend well annually
 - Visually inspect for sheens on the salt lagoon channel
 - Decommission 3 wells



Figure
2-5

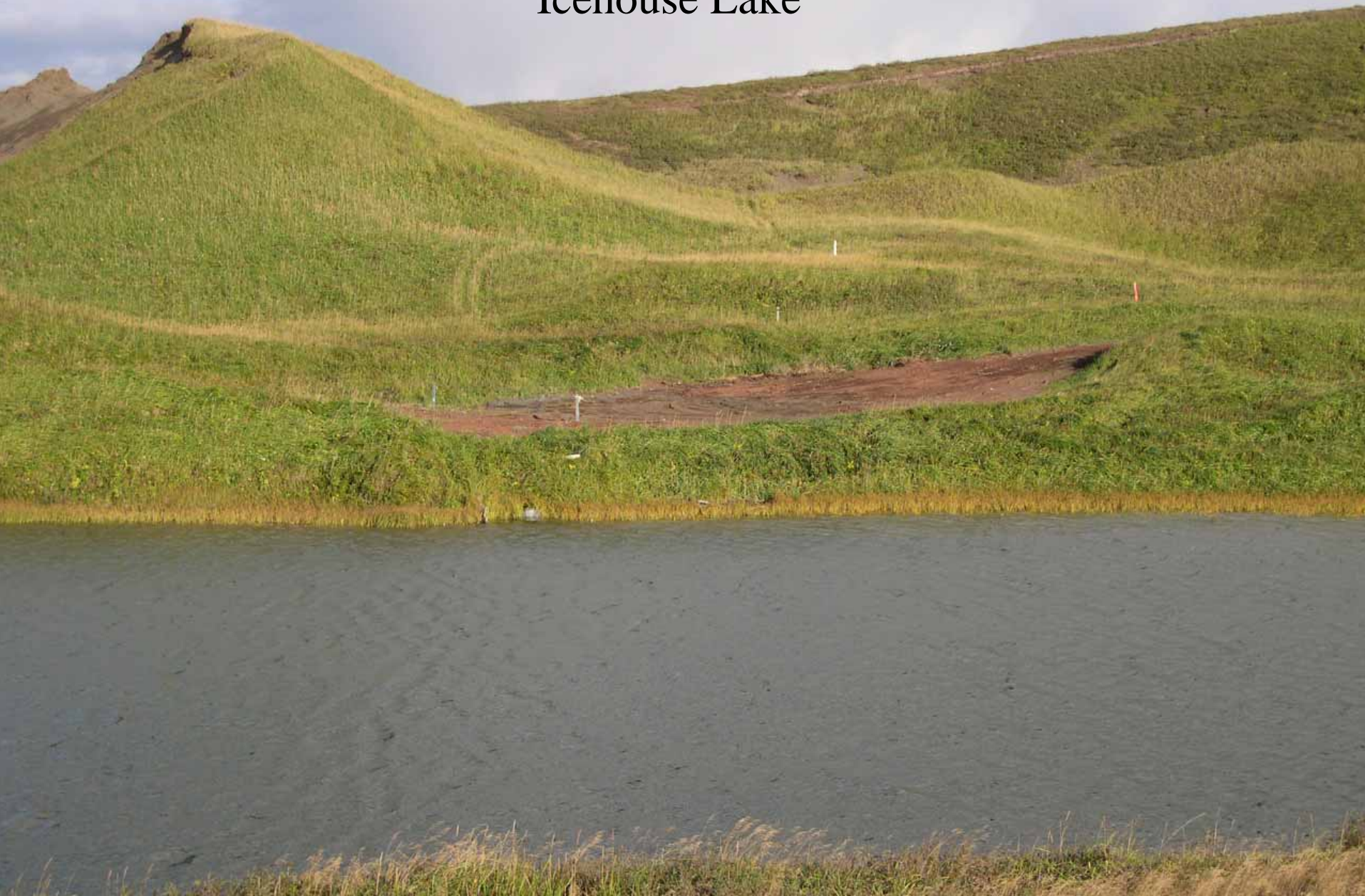
Groundwater Monitoring Network
Diesel Seep
St. Paul Island, Alaska

Sources: Well Locations and
Excavation Extent (NOAA GIS
2005), Satellite Imagery (Ikonos
2001).

Salt Lagoon Diesel Seep

- Retained wells to be monitored for 3 years
 - Evaluate data and recommend follow-up sampling at end of 3-year period
- Analytes will be those found in the Diesel Seep Site above ADEC cleanup criteria
 - DRO

Icehouse Lake



Icehouse Lake

- Currently 6 groundwater monitoring wells
 - Retain 2 wells for sentinel monitoring
Sample sentinel wells semiannually
 - Retain 1 well for contaminant trend monitoring
Sample trend well annually
 - Decommission 3 wells



Figure
2-6

Groundwater Monitoring Network
Icehouse Lake
St. Paul Island, Alaska

Sources: Well Locations and
Scoria Pad (NOAA GIS 2005),
Satellite Imagery (Ikonos 2001).

Icehouse Lake

- Retained wells to be monitored for 3 years
 - Evaluate data and recommend follow-up sampling at end of 3 year period
- Analytes will be those found at Icehouse Lake above ADEC requirements
 - DRO, GRO, Lead (Dissolved and Total)



Lukanin Bay

Lukanin Bay

- Decommission 3 existing wells



Figure

2-7

Groundwater Monitoring Network
Lukanin Bay
St. Paul Island, Alaska

Sources: Well Locations
(NOAA GIS 2005), Satellite
Imagery (Ikonos 2001).



St. Paul Landfill/Tract 42



St. Paul Landfill/Tract 42

- Currently 8 groundwater monitoring wells
 - Retain 8 wells for sentinel/contaminant trend monitoring
 - Sample wells annually



Figure
2-8

Groundwater Monitoring Network
St. Paul Municipal Landfill
St. Paul Island, Alaska

Sources: Well Locations and
Tract 42 (NOAA GIS 2005),
Satellite Imagery (Ikonos 2001).



St. Paul Landfill/Tract 42

- Retained wells to be monitored for 5 years
 - Evaluate data and recommend follow-up sampling at end of 5-year period
- Analytes will be those found in PCS placed in Cell C, plus lead due to one sample exceedance
 - DRO, GRO, benzene, toluene, ethylbenzene, xylene, lead (dissolved and total)

NWS Land Spreading Area and Oil Drum Dump Site



NWS Land Spreading Area and Oil Drum Dump Site

- Currently 8 groundwater monitoring wells
 - Retain 4 wells for contaminant trend monitoring
 - Sample trend wells annually
 - Transfer or decommission 4 Oil Drum Dump Site (TPA Site 1) wells

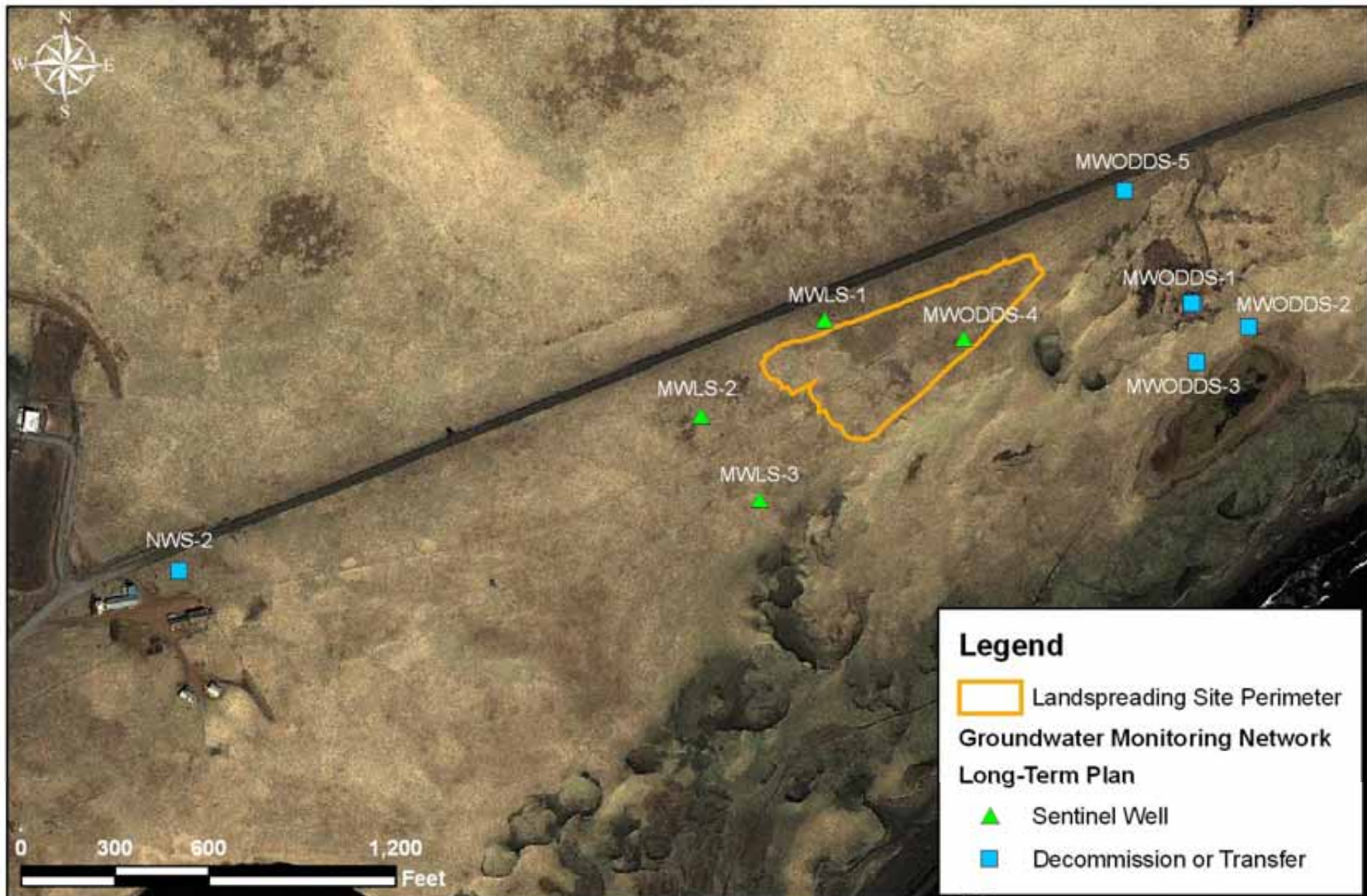


Figure
2-9

Groundwater Monitoring Network
National Weather Service, Landspreading Area,
and Oil Drum Dump Site
St. Paul Island, Alaska

Sources: Well Locations
(NOAA GIS 2005), Satellite
Imagery (Ikonos 2001).



NWS Land Spreading Area and Oil Drum Dump Site

- Retained wells to be monitored for 3 years
 - Evaluate data and recommend follow-up sampling at end of 3-year period
- Analytes will be those found in PCS placed in the area
 - GRO, DRO, benzene, toluene, ethylbenzene, xylene

Vehicle Boneyard



Vehicle Bone Yard

- Currently 13 monitoring wells
 - All will be decommissioned or transferred

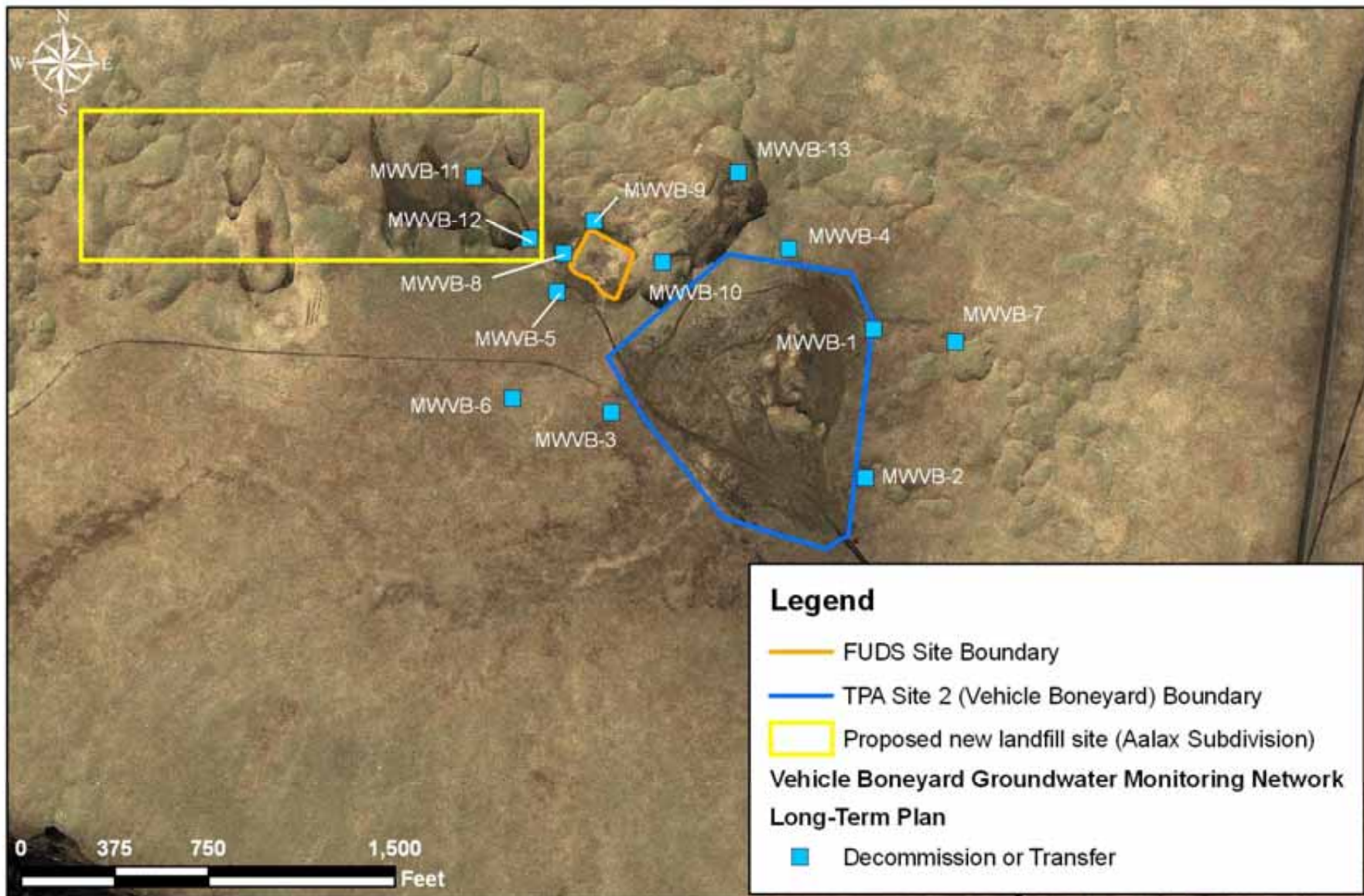


Figure
2-10

Groundwater Monitoring Network
Vehicle Boneyard
St. Paul Island, Alaska

Sources: Well Locations
(NOAA GIS 2005), Satellite
Imagery (Ikonos 2001).



Telegraph Hill Scoria Pit



Telegraph Hill Scoria Pit

- Decommission or transfer 5 monitoring wells



Figure
2-11

Groundwater Monitoring Network
Telegraph Hill
St. Paul Island, Alaska

Sources: Well Locations
(NOAA GIS 2005), Satellite
Imagery (Ikonos 2001).

