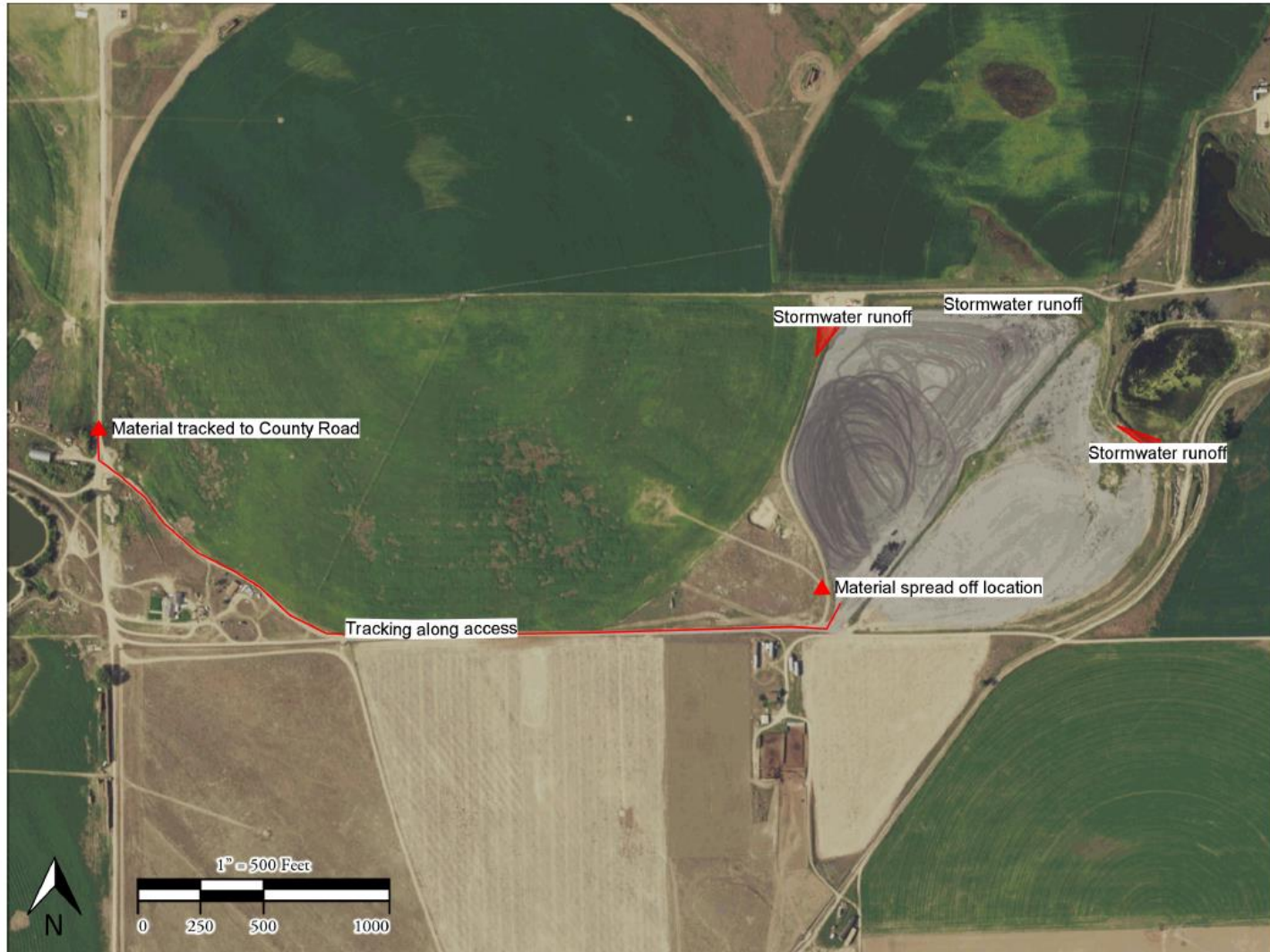


PDC Ludwig #3



Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



9/7/2016 Aerial imagery



6/9/2017 Aerial imagery

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255

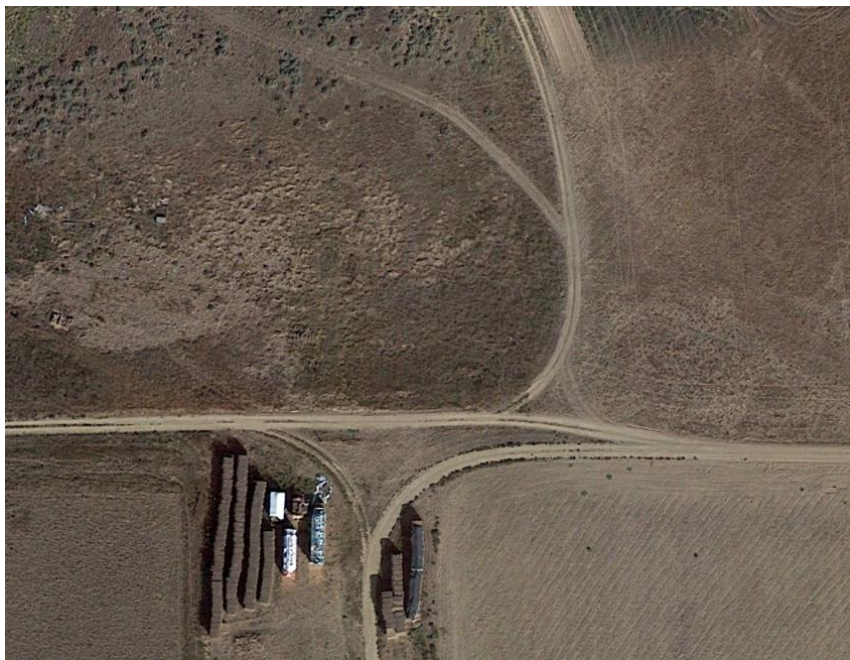


10/17/2017 Aerial imagery



5/31/2018 Aerial imagery

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Access road pre-disturbance (9/7/2016)



Access road during operations (5/31/2018)

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Photo 1 – Access road compared to adjacent undisturbed landowners road.

Photo 2 – Access road at county road.

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Photo 3 – Stockpiled material prior to being spread.



Photo 4 – Material on neighboring property to the south.

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Photo 5 – Perimeter berm not visible below weeds; thin crust of transported bentonitic material on top of native soil.



Photo 6 – Perimeter berm not visible below weeds; thin crust of transported bentonitic material on top of native soil.

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Photo 7 – Material being transported offsite into neighboring cropland by stormwater.



Photo 8 – Material being transported offsite into neighboring cropland by stormwater.

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Photo 9 – Material spread offsite during spreading activities near access road.



Photo 10 – Material transported offsite to the west by stormwater.

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Photo 11 –Active spreading area, spreading is to a depth greater than 3”.



Photo 12 – Inactive area with salt crust, large clumps of cuttings not incorporated into native soil. Weeds present throughout, no other growth observed.

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Photo 13 – Heavy rilling and salt deposits on inactive area.



Photo 14 – Foreground: Inactive area with channeling and salt deposits.
Background: Active spreading area and cuttings stockpile.

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255

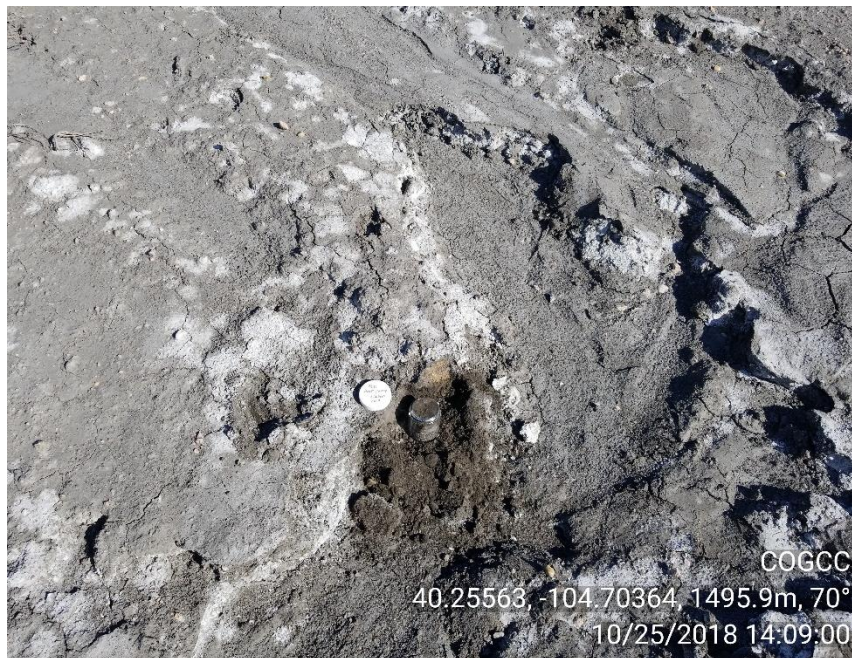


Photo 15 – Post incorporation sample location.



Photo 16 – Background sample location.

Inspection Photos
Location Name: Ludwig #3
Facility ID: 444255



Photo 17 – Cuttings sample location.



Photo 18 – Active spreading sample location.