



Site Specific Final Reclamation Completion Notice – Cropland Drone Imagery

Permit Closure Report – Cropland

Location ID: 331496

Location Name: NORRIS-66N65W/16NENE

Report Date:

10/31/2024

H2E has conducted a thorough review of the data provided in this report. This report was developed in accordance with ECMC Operator Guidance – Operator supplied cropland drone imagery and information for submitting a final reclamation completion notice.

Crop Year and Type

Crop 2024 – Sugar Beets

Crop 2023 – Sugar Beets

Inspection:

Performed by	H2E Inc.
Date	8/2/2024

All pertinent data, imagery, and materials are included at the end of this report.

Location Checklist



Operator / #	PDC ENERGY INC / 69175		
Name / Location ID	NORRIS-66N65W/16NENE - 331496		
County	WELD		
Well Information	Well Name: NORRIS #16C		
	Well API #: 05-123-20782		
	Lat/Long As Drilled: 40.490000 / -104.663640		
	Plug date & Form 6S Doc. #: 11/30/2020 - 402564051		
Facility Entities		Tank Battery	Pits
	X	Wells	On-Location Flowlines (Form 42): Doc. #
		Domestic Taps	X Off-Location Flowlines (Form 44): Doc. # 402833806
Equipment on Site	X	None	Debris
		Pit mouse/rat holes, cellars backfilled	
Access Road	X	Regraded	X Contoured
		Culverts removed	Gravel removed
		Pre-existing: must provide supporting documentation	
Reclamation Status	X	Location and associated disturbances reclaimed	
		Subsidence	
Spills or Releases (Form 19)	X	No	Yes
Remediation (Form 27/27A)		No	X Yes
On-Location Flowlines	X	No	Yes
Off-Location Flowlines		No	X Yes
Inspection Corrective Actions		No	X Yes
Sundry Notice (Form 4)	No sundry notice pertaining to series 900-1200 rules was identified.		
Drone Information	Make & Model: DJI M300		
	Image Processing Software: Pix4Dmapper		
	Pilot Name & FAA Certificate #: Cameron Denison - 4729153		
	Date of FAA Certificate Issuance: 2/15/2024		



Designated Land Use Observations

Previous Land Use	Current Land Use
Reference Imagery for Infrastructure: NAIP 2015	Remotely Sensed Imagery: 8/2/2024
Designation: Oil and Gas Facility	Designation: Cropland

The following imagery sources were reviewed during this investigation:

NAIP Imagery from 2015, 2023, and historic Google Earth imagery from 1985-2023.

Site Observation Notes

No Additional Information

Closure Information

This final reclamation completion notice is intended to close the NORRIS-66N65W/16NENE location which consists of the NORRIS #16C (API # 05-123-20782) wellhead. This wellhead does not share a disturbance with any other wells or tank batteries, and the associated tank battery has its own location ID (446721) which will remain open until final reclamation has been achieved.

The NORRIS-66N65W/16NENE location is in Weld County, Colorado east of County Road 43 and south of County Road 70. There is one off-location flowline associated with this well that transports produced fluids to the associated tank battery, and was removed in December of 2020.

NORRIS #16C was reclaimed and returned to the landowner for agricultural use in 2020. The wellhead was accessed from an unnamed agricultural access road along County Road 43 that lead to the NORRIS-66N65W/16NENE location.

One corrective action (CA) was identified during the records review. This CA was identified during an inspection on 10/20/2016 by Jason Gomez and noted to securely fasten all valves, pipes, and fittings to ensure good mechanical condition per Rule 605.d. During a follow up inspection on 1/31/2017 the CA mentioned above was addressed where inspector Jason Gomez commented "Corrective actions from inspection doc #672500053 have been completed to comply with COGCC rules".

There were no spills/releases or remediation workplans associated with NORRIS #16C identified during our records review. However, a remediation workplan was identified associated with the Tank Facilities. This workplan falls under the project #16095 and was for the purpose of Pit or PW vessel closure. Project #16095 reached final resolution on 1/25/2021, signed by Rick Allison.

Drone imagery confirms that no equipment was left on site at this location after reclamation activities occurred.



Summary Acreage Table

Description	Acres
Historic Disturbance Extent	0.27
Access Road	0.07
Flowline	Not Included
Tank Battery	Not Included
Well Pad	0.20

Location Summary



Name	NORRIS-66N65W/16NENE		
Type	Wellhead		
Location ID	331496		
Operator / #	PDC Energy / 69175		
Field	WATTENBERG		
County, State	Weld, Colorado		
Lat/Long	40.490000 / -104.663640		
Location	<input type="checkbox"/> Planned Location	<input checked="" type="checkbox"/> X	As Drilled
Location Status - Date	NENE 16 6N65W 6 CL - 11/30/2020		
Facility Entities	<input type="checkbox"/>	Tank Battery	<input type="checkbox"/> Pits
	<input checked="" type="checkbox"/> X	Wells	<input checked="" type="checkbox"/> X Off-Location Flowlines (Form 44)
	<input type="checkbox"/>	Domestic Taps	<input type="checkbox"/> On-Location Flowlines (Form 42)
	<input type="checkbox"/>	Electric Utilities	<input type="checkbox"/>
Equipment on Site	<input checked="" type="checkbox"/> X	No	<input type="checkbox"/> Yes
	If yes, list: <input type="checkbox"/> Pit mouse/rat holes, cellars backfilled		
Access Road	<input checked="" type="checkbox"/> X	Regraded	<input checked="" type="checkbox"/> X Contoured
	<input type="checkbox"/>	Culverts Removed	<input type="checkbox"/> Gravel Removed
	<input type="checkbox"/> Pre-Existing (Must provide supporting documentation):		
Variance Requests	N/A		
Sundry Notice (Form 4)	N/A		
On Location Flowlines (Form 42)	N/A		
Off-Location Flowlines (Form 44)	Form 44 Doc # & Date: 402833806 - 11/23/2021		
	Purpose: FLOWLINE SYSTEM ABANDONMENT VERIFICATION		
	Abandonment Date: 8/30/2021		
	ECMC Approval Date & Signee: N/A		
	Operator Comments: N/A		
	Flowline Facility Information		
	ECMC Flowline ID: 479253		
	Operator Flowline ID: PDC Flowline System		
	Status & Date: AC - 10/25/2024		
	Flowline Type: Wellhead Line		
	Type of Fluids Transported: Crude Oil		
	Start Point Location ID: 331496		
	Start Point Riser Lat/Long: 40.490000 / -104.663640		
	Equipment at Start Point: Wellhead		
End Point Location ID: 446721			
End Point Riser Lat/Long: 40.491773 / -104.664907			
Equipment at End Point: Separator			
Field Inspection Form (Form INSP)	Form INSP Doc # & Date: 1) 672500053 - 10/20/2016 2) 672500375 - 01/31/2017		
	Status Summary: 1) Corrective Action Response Requested 2) THIS IS A FOLLOW UP INSPECTION		
	Inspected Facilities: 1) WELL 2) WELL		
	Inspection Status: 1)PR 2)PR		
	Inspection Date & Inspector: 1)10/20/2016 - Gomez, Jason 2) 01/31/2017 - Gomez, Jason		
	Comments: 1) "Securely fasten all valves, pipes, and fittings to ensure good mechanical condition per Rule 605.d." 2) CORRECTIVE ACTIONS FROM INSPETION DOC#672500055 HAVE BEEN COMPLETED TO COMPLY WITH COGCC RULES		

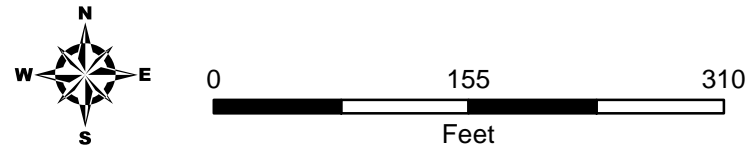
Inspection Corrective Actions (CAs)	INSP #672500053 stated "Securely fasten all valves, pipes, and fittings to ensure good mechanical condition per Rule 605.d."		
Environmental Incidents & Remediation	<input type="checkbox"/>	None	<input type="checkbox"/> Spill or Release (Form 19)
	<input checked="" type="checkbox"/>	Remediation (Form 27/27A)	
Spill or Release (Form 19)	N/A		
Site Investigation and Remediation Workplan (Form 27/27A)	Remediation Project #: 16095		
	Form 27 Initial Doc # & Date: 402527215 - 11/06/2020		
	Purpose: Pit or PW vessel Closure		
	Notes: N/A		
	Form 27 Supplemental Docs # & Date: 402527215 - 01/06/2021		
	Purpose: Pit or PW vessel Closure		
	Operator Comments: PDC Energy is submitting a produced water vessel closure request for the Norris 3 & 16C location.		
	ECMC Comments: N/A		
	ECMC COAs: Based on the information presented, it appears that no further action is necessary at this time and the COGCC approves the closure request. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if ground water is found to be impacted, then further investigation and/or remediation activities may be required. In addition, the surface area disturbed by the remediation activity shall be reclaimed in accordance with the 1000 Series Reclamation Rules.		
	Closure Request Approved: 1/25/2021		
Final Resolution: 1/25/2021 - Rick Allison			
COGIS Tank Facilities Information (Scout Card)	Tank Battery Name: Norris 3		
	Facility ID: 446722		
	Status & Date: AC - 7/19/2016		
	Lat/Long: 40.491773 / -104.664907		
	Notes: This TANK BATTERY record was generated 07/19/2016 using information from facilityID 446721.		
	Form 4 Doc # & Date: N/A		
COGIS Well Information (Scout Card)	Well Name: NORRIS #16C		
	Facility ID: 262768		
	Status & Date: PA - 11/30/2020		
	Lat/Long: 40.490000 / -104.663640		
	Notes: N/A		
	Form 4 Doc # & Date: N/A		
Purpose: N/A			

Pre-Plugging Active Operations Location Overview



PDC Form 4 Final Reclamation - Pre Plugging Overview

NORRIS 16C

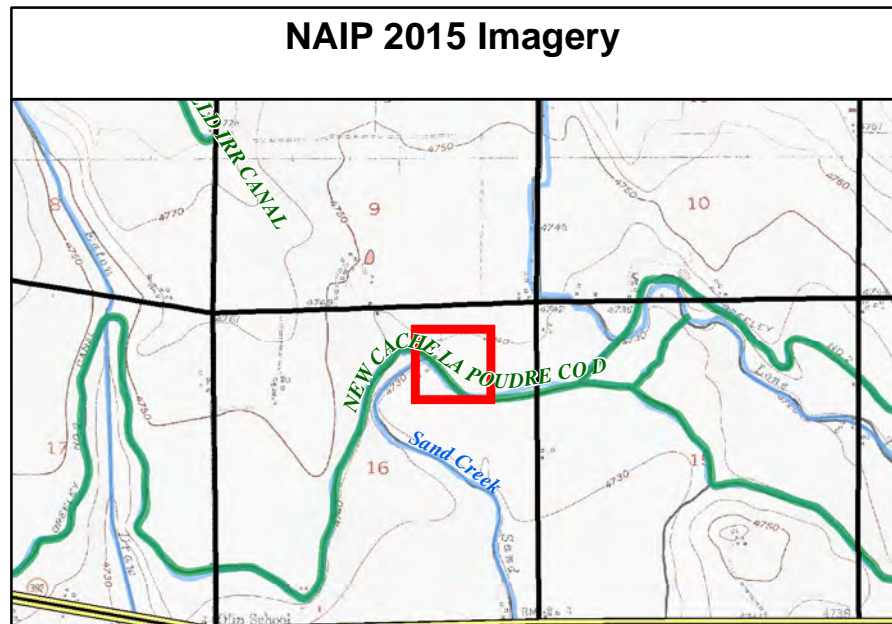


Editor: CDenison
File: PDC_Drone_Rec_PrePlugging_DDP

Scale: 1:1,400
Date: 11/8/2024

- Well Head
- Former Tank Battery Disturbance
- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Removed

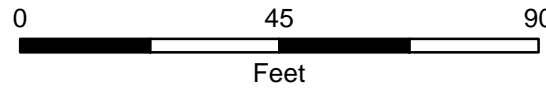
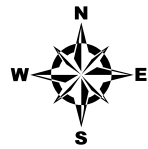
NAIP 2015 Imagery





PDC Form 4 Final Reclamation - Pre Plugging Overview

NORRIS 16C

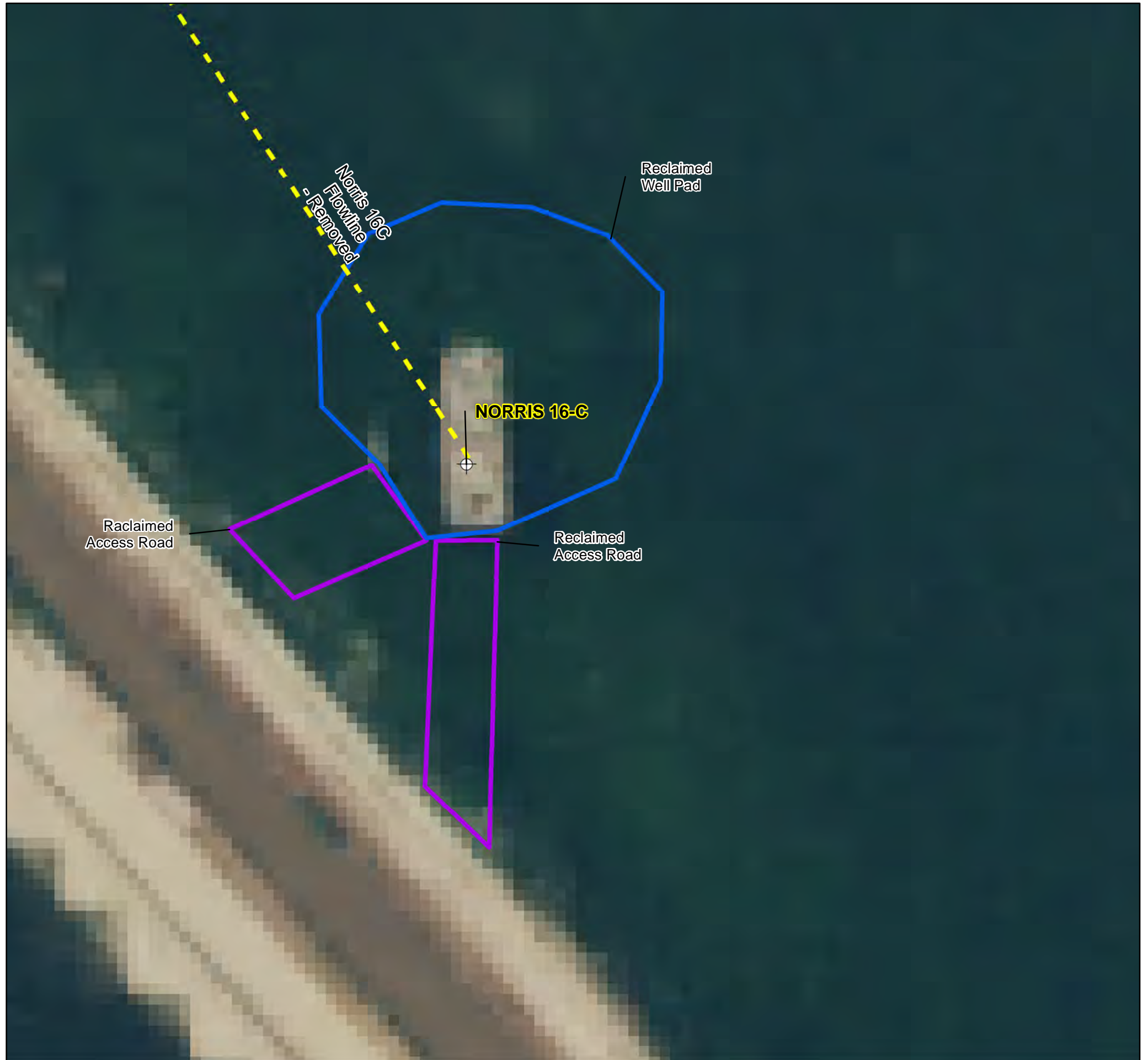
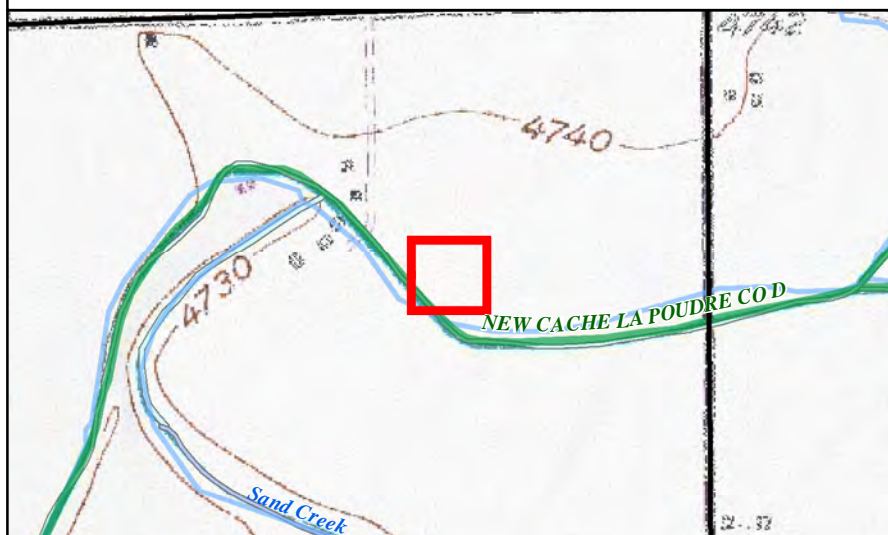


Editor: CDenison
File: PDC_Drone_Rec_PrePlugging_DDP

Prepared by:
Scale: 1:400
Date: 11/8/2024

- Well Head
- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Removed

NAIP 2015 Imagery

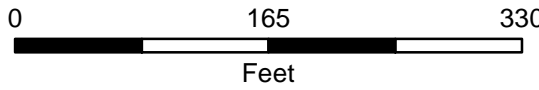


Post-Plugging and Abandonment Location Overview



PDC Form 4 Final Reclamation - Post Plugging Overview

NORRIS 16C

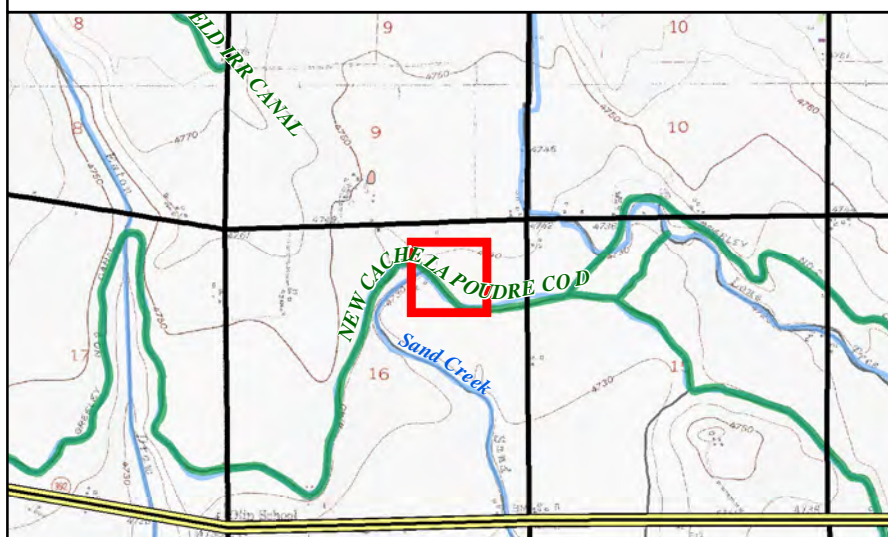


Prepared by:
Scale: 1:1,500
Date: 11/11/2024

Editor: CDenison
File: PDC_Drone_Rec_PostPlugging_DDP

- Well Head
- Reclaimed Tank Battery Disturbance
- Reclaimed Separator Disturbance
- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Removed

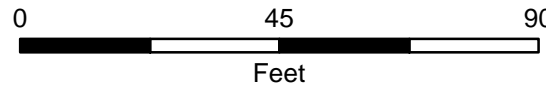
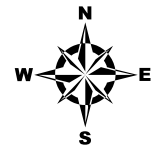
2024 Drone Imagery





PDC Form 4 Final Reclamation - Post Plugging Overview

NORRIS 16C

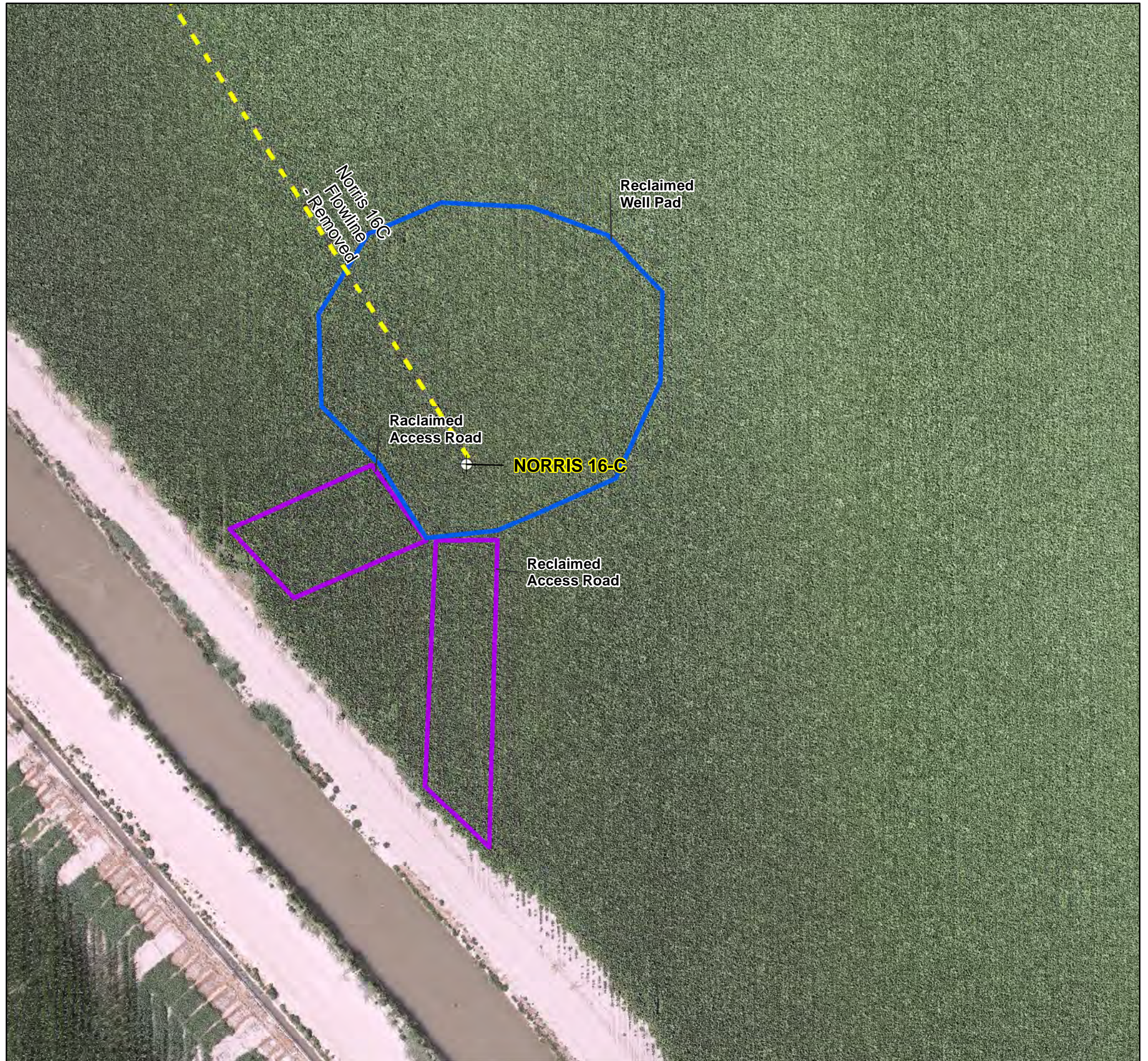
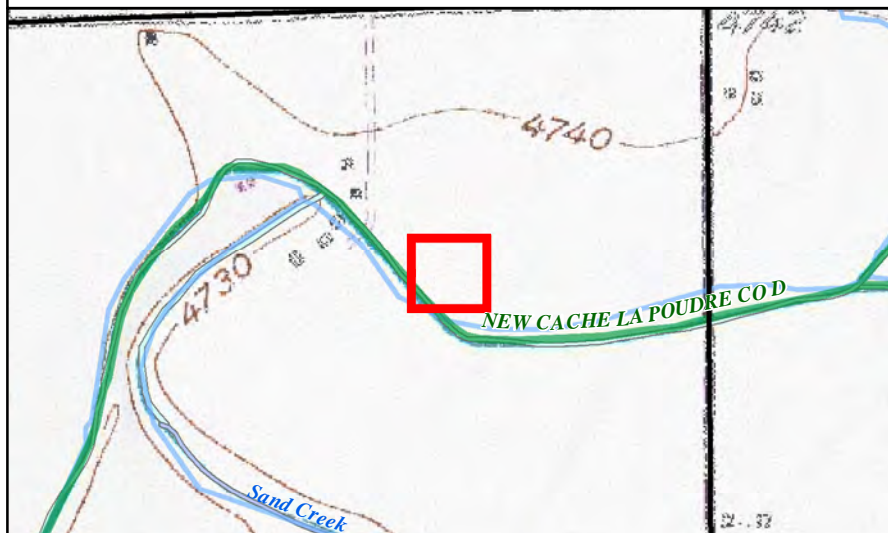


Editor: CDenison
File: PDC_Drone_Rec_PostPlugging_DDP

Prepared by:
Scale: 1:400
Date: 11/11/2024

- Well Head
- Reclaimed Well Pad Disturbance
- Reclaimed Access Road Disturbance
- Flowline - Removed

2024 Drone Imagery



Cardinal Direction Drone Photos of the Reclaimed Area

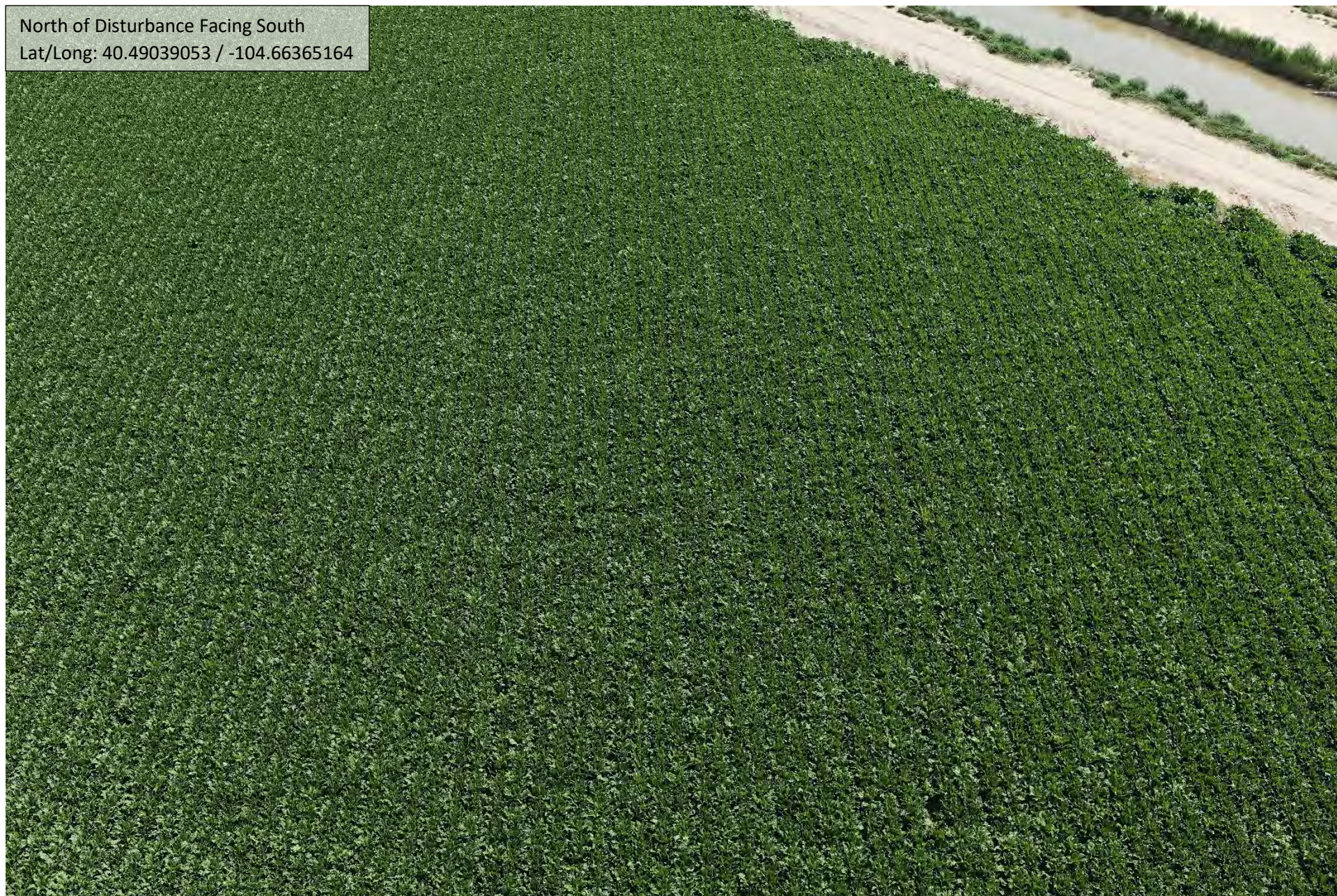
Photo Dates:

8/2/2024

Drone Photo Height:

100'

North of Disturbance Facing South
Lat/Long: 40.49039053 / -104.66365164



South of Disturbance Facing North
Lat/Long: 40.48952764 / -104.66363275



West of Disturbance Facing East

Lat/Long: 40.49004639 / -104.66321350



East of Disturbance Facing West

Lat/Long: 40.49001144 / -104.66415942



Cardinal Direction Drone Photos of the Reference Area

Photo Dates:

8/2/2024

Drone Photo Height:

100'

Reference Area North of the Reclaimed Area
Lat/Long: 40.49039875 / -104.66365619



Reference Area South of the Reclaimed Area
Lat/Long: 40.48952308 / -104.66362872



Reference Area West of the Reclaimed Area
Lat/Long: 40.49000825 / -104.66416697



Reference Area East of the Reclaimed Area
Lat/Long: 40.49004936 / -104.66320606



Reference Photo for Cropland Growth Stage

Cropland Reference Photo (Sugar Beets)
Lat/Long: 40.48929000 / -104.66134667

