

Trinity Oilfield Services & Rentals, LLC

Delineation Plan



Company: Cambrian Management **Address:** P.O. Box 272, Midland, TX 79702 **Telephone #:** (432) 631-4398

Site Name: Dorstate SWD **NMOCD Reference#:** 2RP-4364

Surface Owner: State of New Mexico **Mineral Owner:** State of New Mexico

Unit Letter: H (SE/NE) **Section:** 27 **Township:** 25S **Range:** 28E **County:** Eddy **GPS Coordinates:** 32.102684 N -104.068565 W

Depth to Ground Water: 60' - 65' **Distance to Surface Water Body:** ☐ <200' ☐ 200' - 1,000' ☒ >1,000'

Wellhead Protection Area: <1,000' from Water Source or <200' from Domestic Water Source? ☐ Y ☒ N

NMOCD Ranking Score: 10 **Soil Remediation Levels (mg/kg):** Benzene: 10 BTEX: 50 TPH: ☐ 100 Chloride: ☐ 250
☒ 1,000 ☒ 500
☐ 5,000 ☐ 1,000

Date/Time of Release: Unknown **Type of Release:** Produced Water **Approximate Volume of Release:** See Below

Background Information:

On August 23, 2017, a representative of the New Mexico State Land Office (NMSLO) notified Cambrian Management (Cambrian) and the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office via email that a release (or series of releases) had occurred at the Dorstate Salt Water Disposal (SWD). It was determined that driver inattention and excess rainwater had caused the on-site sumps to overflow, resulting in the release of approximately 25 barrels of produced water. The release may have commingled with unrelated historical releases that occurred prior to the operation of the site by Cambrian. Based on a preliminary environmental site assessment, the releases impacted a portion of the SWD pad, access road, and adjacent pastureland. Impacted areas are present within a total area measuring approximately 210,000 square feet.

A "Release Notification & Corrective Action" form (C-141) was submitted to the NMOCD on August 24, 2017, and is provided as Appendix A. General photographs of the release site are provided in Appendix B. A "Site Location Map" is provided as Figure 1.

Proposed Activities:

A series of delineation trenches will be advanced to investigate the vertical and horizontal extent of impacted soil. The trenches will be spaced at approximate 75-foot horizontal intervals, in a grid-like pattern, and will be located on the Dorstate SWD pad, along the caliche access road, and in the adjacent pastureland to the east and northeast of the facility. The trenches will be advanced in 1- to 2-foot vertical intervals, and soil samples collected from the floors of the trenches will be field-screened with a chloride test kit and/or photo-ionization detector (PID). The trenches will be advanced until field-screens suggest contaminants of concern are below the recommended remediation action levels established for the site by the NMOCD or to a maximum depth of 15 feet below ground surface. Selected soil samples will be submitted to an NMOCD-approved laboratory for confirmatory analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride using Environmental Protection Agency Methods SW 846-8021b, SW 846-8015M, and 300, respectively.

The locations of the proposed delineation trenches are depicted in Figure 2, "Proposed Delineation Map".

Upon receipt of laboratory analytical results from the delineation event, an "Environmental Site Summary & Remediation Proposal" (Work Plan) will be developed, outlining an appropriate soil remediation strategy for the site. The Work Plan will be submitted to both the NMOCD and NMSLO for review and approval prior to conducting any excavation activities.

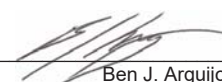
Enclosures:

Figure 1: Site Location Map

Figure 2: Proposed Delineation Map

Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Photographs


Ben J. Arguijo
Project Manager
10/16/2017

Figures

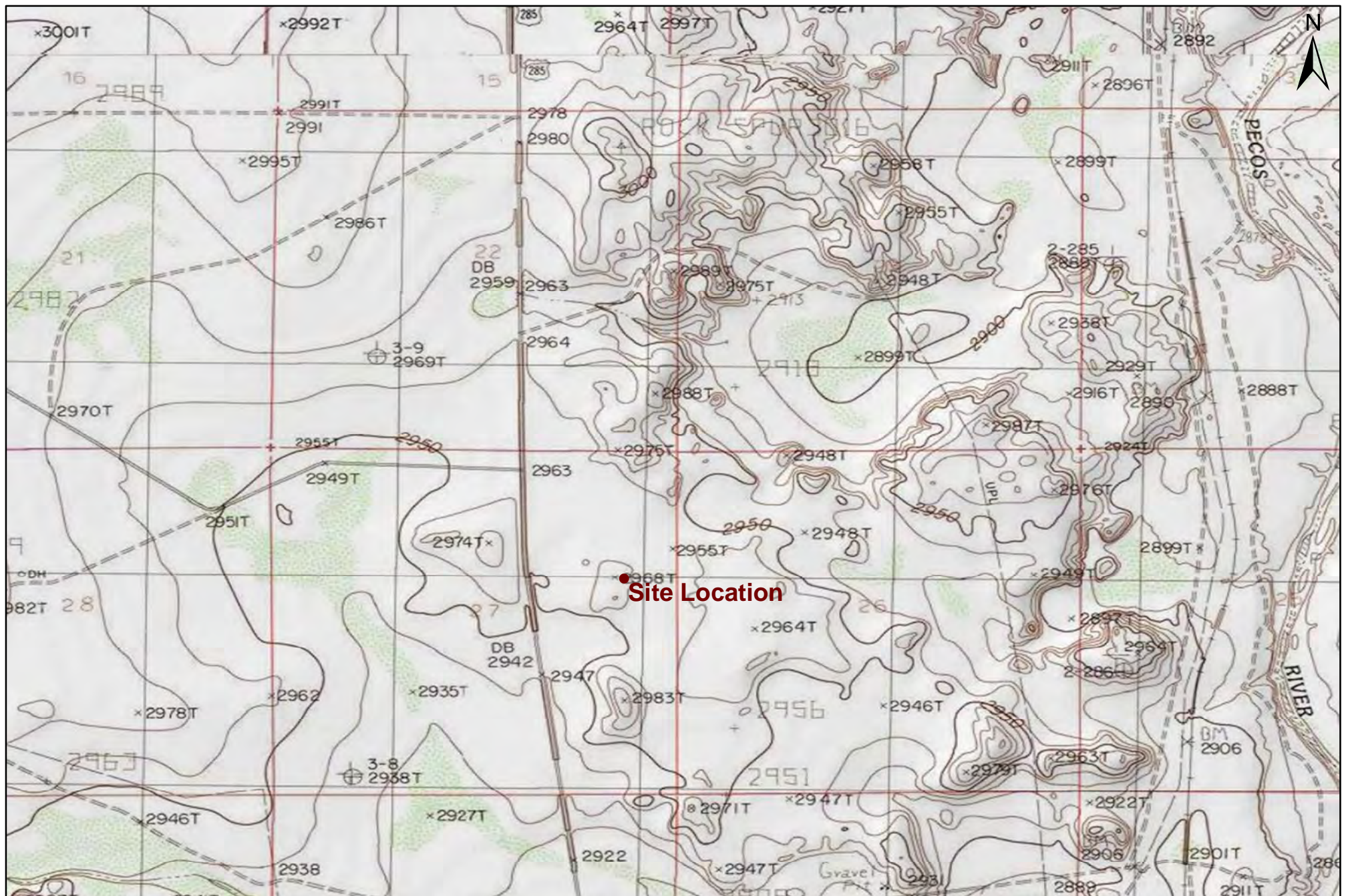


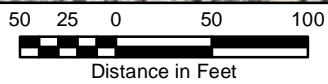
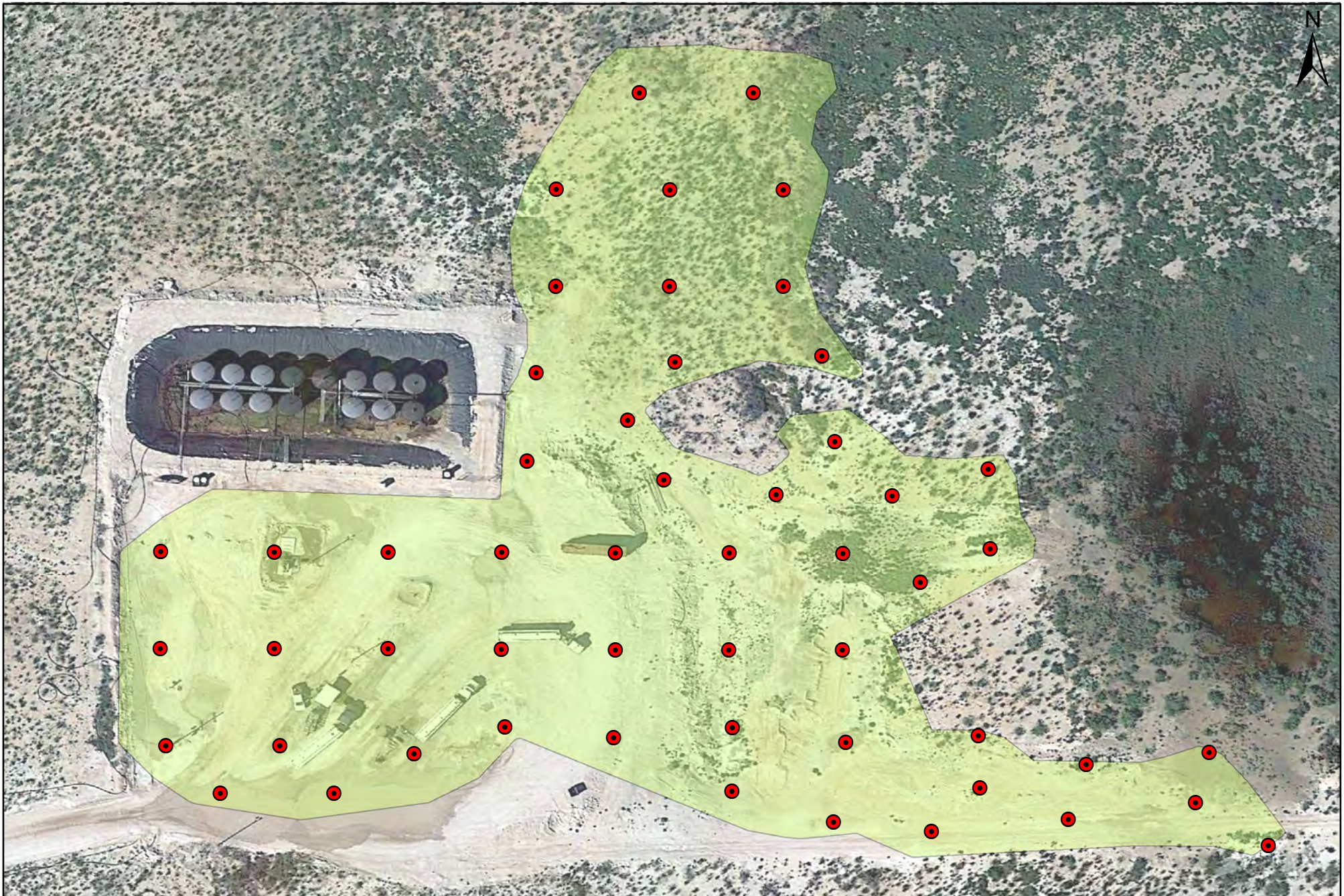
Figure 1
Site Location Map
Cambrian Management
Dorstate SWD
Eddy County, New Mexico
NMOCD Reference #: 2RP-4364



Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
October 5, 2017	Scale: 1" = 2,000'

2,000 1,000 0 2,000
Distance in Feet



Legend

- Stained Area
- Proposed Sample Location

Figure 2
Proposed Delineation Map
Cambrian Management
Dorstate SWD
Eddy County, New Mexico
NMOCD Reference #: 2RP-4364



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Drawn By: BJA	Checked By: CTR
October 5, 2017	Scale: 1" = 100'

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

AUG 29 2017

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1724135283

198688

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Cambrian Management, Ltd.	Contact	Mike Anthony
Address	PO Box 972, Midland, TX 79702	Telephone No.	432-631-4398
Facility Name	Dorset SWD	Facility Type	SWD

Surface Owner	Mineral Owner	API No.	30-015-23728
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	27	25S	28E	1980	North	660	East	Eddy

Latitude 32.109684 Longitude 104.068565 NAD83

NATURE OF RELEASE

Type of Release	Water, Produced Water	Volume of Release	25 bbls	Volume Recovered	0
Source of Release		Date and Hour of Occurrence		Date and Hour of Discovery	8-23-17
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	0:04 PM		
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Overflowing bumps due to truck drivers inattention and excess rainwater.

We will get soil samples and Trinity Environmental and proceed with proper remediation and cleanup

Describe Area Affected and Cleanup Action Taken.*

Pasture land and SWD location

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Denise Jones	OIL CONSERVATION DIVISION	
Printed Name: Denise Jones	Signed By: [Signature] Approved by Environmental Specialist:	
Title: Regulatory Analyst	Approval Date: 8/29/17	Expiration Date: N/A
E-mail Address: djones@cambrianmngmt.com	Conditions of Approval: See attached	Attached: SRP-4B6A
Date: 8-24-17 Phone: 432-620-9181		

* Attach Additional Sheets If Necessary

Appendix B

Photographs



Dorstate SWD - Release Site (Looking Northwest)



Dorstate SWD - Release Site (Looking North-Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North-Northwest)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking West)



Dorstate SWD – Release Site (Looking West)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking Southwest)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking West-Northwest)



Dorstate SWD – Release Site (Looking West-Northwest)