

SITE-SPECIFIC QUALITY ASSURANCE & QUALITY CONTROL AUDIT

Permit Closure Type – Final



PERMIT CLOSURE REPORT – DESIGNATION LAND USE CHANGE

Location ID - 323083

Location Name – BICKLER-61N68W/34SWNW

Report Date

13 Dec 2022

Soil Sage has conducted a thorough data audit as part of our Quality Assurance and Quality Control (QA/QC) protocols. The audit revealed this site has gone through a land use change.

Initial Job Assignment

Client	CIVITAS Resources
Work Assignment	179 Site Permit Closures
Date	July 20, 2022

Quality Assurance & Quality Control Audit

Auditor	Soil Sage
Audit Date	12/12/2022

Audit Methodology

The following source materials were consulted during the QA and QC audit process:

- ✓ Site Permit Closures provided by CIVITAS Resources
- ✓ Colorado Oil & Gas Information System – COGIS Database
- ✓ On-site Evaluation and Proprietary Soil Sage Drone Imagery data collection
- ✓ Review of legacy imagery for site location and facility parameters
- ✓ Natural Resources Conservation Service (NRCS) Map Unit Description
- ✓ Hydrology Map

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

Site Description

Name	BICKLER-61N68W/34SWNW		
Location ID	323083		
Operator / #	CRESTONE PEAK RESOURCES OPERATING LLC / 10633		
Field	WATTENBERG / 90750		
County / State	WELD / CO	Lat/Long	40.009021 / -104.996112 Planned Location
Facility Status	CL	Location	SWNW 34 1N68W
Facility Status Date	03/09/2018	Access Road	Pre-Existing
Facility Entities	<input checked="" type="checkbox"/>	Tank Battery	<input checked="" type="checkbox"/> Pits
	<input checked="" type="checkbox"/>	Wells	<input checked="" type="checkbox"/> Off-Location Flowlines (Form 44)
	<input type="checkbox"/>	Domestic Taps	<input checked="" type="checkbox"/> On-Location Flowlines (Form 42)
Environment Incidents & Remediation	<input type="checkbox"/>	None	<input type="checkbox"/> Spill or Release (Form 19)
	<input checked="" type="checkbox"/>	Remediation (Form 27/27A)	
Sundry Notice (Form 4)	Form 4s exist for Site Related Facilities. See individual scout card data below for report details.		
On Location Flowlines (Form 42)	Form 42s exist for Site Related Facilities. See individual scout card data below for report details.		
Off-Location Flowlines (Form 44)	<p>Form 44 Doc # & Date – 401687463 – 07/30/2018</p> <p>Reference the Closure Information for additional details for the end point location</p> <ul style="list-style-type: none"> ○ Purpose – Off-Location Flowline Registration ○ Operator Comments – None <p>Flowline Facility Information</p> <ul style="list-style-type: none"> ○ COGCC Flowline ID – 456390 ○ Operator Flowline ID – 062720181FL ○ Status & Date – AC – 08/23/2018 ○ Type of Fluids Transported – Natural Gas ○ Start Point Location ID – 323083 – Production Facilities ○ Start Point Riser Lat/Long – 40.009025 / -104.996092 (BICKLER #1) ○ Equipment at Start Point – Well ○ End Point Location ID – 335860 – Production Facilities 		

	<ul style="list-style-type: none"> ○ End Point Riser Lat/Long – 40.00699 / -104.990255 (BICKLER -61N68W/34NESW) ○ Equipment at End Point – Separator
Site Investigation and Remediation Workplan (Form 27/27A)	<p>Remediation Project # - 6889</p> <p>Form 27/27A – Doc # & Date – 2223193 – 03/12/2012</p> <ul style="list-style-type: none"> ○ Purpose – Operator (ENCANA OIL & GAS INC.) requested no further action following approved remediation activities (Doc # 2222702 – 02/07/2012). Refer to Remediation Project # 6827 below. ○ No Further Action Request Approved – 03/12/2012 by Kari Brown ○ Final Resolution – Case closed on 03/12/2012
	<p>Remediation Project # - 6827</p> <p>Form 27/27A – Doc # & Date – 2222702 – 02/07/2012</p> <ul style="list-style-type: none"> ○ Purpose – Pit/PW vessel closure ○ Operator Comments - Produced water pit was removed and replaced. Impacted soil was removed via excavation. Confirmation soil samples were collected from the excavation floor and sidewalls to ensure impacted soil above state standards. No groundwater was encountered during remediation. ○ Facility ID – 427596 ○ Facility Type - Pit ○ Approved – 02/07/2012 by Robert Chesson ○ Final Resolution – Case closed on 02/07/2012
COGIS Tank Facilities Information (Scout Card)	Remediation Summary Activity Report January 2012 from Encana Oil and Gas – Bickler #1 Tank Battery API 05-123-12529 – Reference Pit Closure Pit # 427596 (reference Pit section below for additional information)
COGIS Well Information (Scout Card)	<p>Well – BICKLER #1 – API# 05-123-12529 – FACILITY ID 244734</p> <ul style="list-style-type: none"> ○ Well Status & Date – PA – 03/09/2018 ○ Lat/Long As Drilled – 40.009021 / -104.996112 ○ Form 6 Subsequent – Doc # & Date – 401601306 – Approved on 02/12/2019 by Elliot Strathman ○ Form 4 – LOG – Doc # & Date – 401570405 – 03/14/2018 Purpose – Digital Well Log Upload (Gyro) Approved – 03/14/2018 by Richard Murray ○ Form 42 – OFF – Doc # & Date – 401568354– Submitted on 03/08/2018

	<p>Purpose – Offset Well Mitigation Completed. Permitted horizontal well requiring mitigation – API # 123-45983</p> <ul style="list-style-type: none"> ○ Form 42 – PA –Doc # & Date – 401560161 – Submitted on 03/01/2018 <p>Purpose –Start of Plugging Operations 48 Hour Notice</p> <ul style="list-style-type: none"> ○ Form 42 – BRT – Doc # & Date – 401557526 – 02/28/2018 <p>Purpose – Bradenhead Test 48 Hour notice</p> <ul style="list-style-type: none"> ○ Form INSP – PR – Doc # & Date – 681902310 – 12/06/2017 <p>Status Summary – No Follow Up Inspection Required</p> <p>Inspected Facilities – Well BICKLER 1</p> <p>Inspection Status – PR</p> <p>Inspection Date & Inspector – 12/06/2017 by Gary Helgeland</p> <p>Comments – Addressed Comments and Corrective Actions reported in Form INSP Doc # 684904622 – 10/19/2017</p>
COGIS Pit Information (Scout Card)	<p>Pit – BICKLER 1 - FACILITY ID 427596</p> <ul style="list-style-type: none"> ○ Pit Operator – ENCANA OIL & GAS INC / 100185 ○ Pit Status & Date – CL – 02/07/2012 ○ Form 27A – Supplemental Doc # & Date – 2222702 – 02/07/2012 <p>Site Facility Closure Approved – 02/07/2012 by Robert Chesson</p> <p>Final Resolution – Case closed on 02/07/2012</p>

Audit Key Findings - Designation Land Use Change Observations

PREVIOUS LAND USE	CURRENT LAND USE
<p>Reference Imagery for Infrastructure</p> <p>DRCOG 2010</p>	<p>Remotely Sense Imagery</p> <p>09/13/2022</p>
<p>Designation</p> <p>Well Pad</p>	<p>Designation</p> <p>Greenhouse Agriculture</p>

The following imagery sources were reviewed during this audit:

EarthExplorer, DRCOG 2002 - 2014, NAIP Imagery 2011, 2013, 2015, 2017, 2019, 2021, ESRI Maxar and Remotely Sensed Imagery Sep 2022

Closure Information

This Site Location shares a Natural Gas Off-location Flowline (ID 456390) with Site Location 335860 BICKLER-61N68W/34NENW (End Point).

Historical Notes

Flowline Facility ID 456390 was constructed in 09/26/1987.

The Well was permitted in 1986 and construction was completed in 1987. This timeframe corresponds to the construction of the flowline. Supporting documentation was discovered in Form 44 Doc # 401687463.

The Endpoint Riser coordinate referenced in Form 44 Doc # 401687463 places the separator in a facility that was constructed between 2008 and 2009 as ascertained from a historical image search.

The Off-Location Flowline (ID 456390) is also associated with Site Location 335860 (End Point Production Facility – equipment at End Point is a Separator).

4 Inspection photos taken 12/5/17 and the actual INSP form was completed on 12/6/17. 1 photo (of the well) is taken at the BICKLER 1 Site Location and the other 3 photos are taken down the road near the spot of the separators, well heads, and holding tanks. Ref DOC 681902311 photos INSP done on Dec 5 2017 for Dec 6 INSP report.

Site Photos

Site Investigation and Reference Area Photos

13 Sep 2022

Cardinal directional and ground perspective photos of the site



North



East



South



West



Overhead

ATTACHMENTS

Maps and Figures

Area Maps

Previous Infrastructure Overview

Current Site Overview

Hydrology – (2 CCR 404-1 – 303.b.3.G pg.34)

Background Information

Natural Resources Conservation Service (NRCS) Map Unit Description

Reference Soil Document



Infrastructure
 Facility – CL – 03/09/2018
 Well – PA – 03/09/2018
 Tank Battery – No Docs
 Pit -CL – 02/07/2012
 Road – Pre-existing
 On-Location FLO – 401568354 – 03/08/2018
 Off-Location FLO - 401687463 – 07/30/2018
 Environmental – RPN – 6889
 Resolved – 03/12/2012
 Environmental – RPN – 6827
 Resolved – 02/07/2012

CIV - 323083 - BICKLER
Map Extent - Maxar 2011

Imagery: Maxar
 Imagery Date: 25 Nov 2011
 Map Date: 10 Dec 2022
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

◆ Wells	▭ Separator
▭ Disturbance Extent	▭ Flowline
▭ Tank Battery	

0 0.02 0.04 0.09 Miles

Overall Disturbance:
0.65 Acres

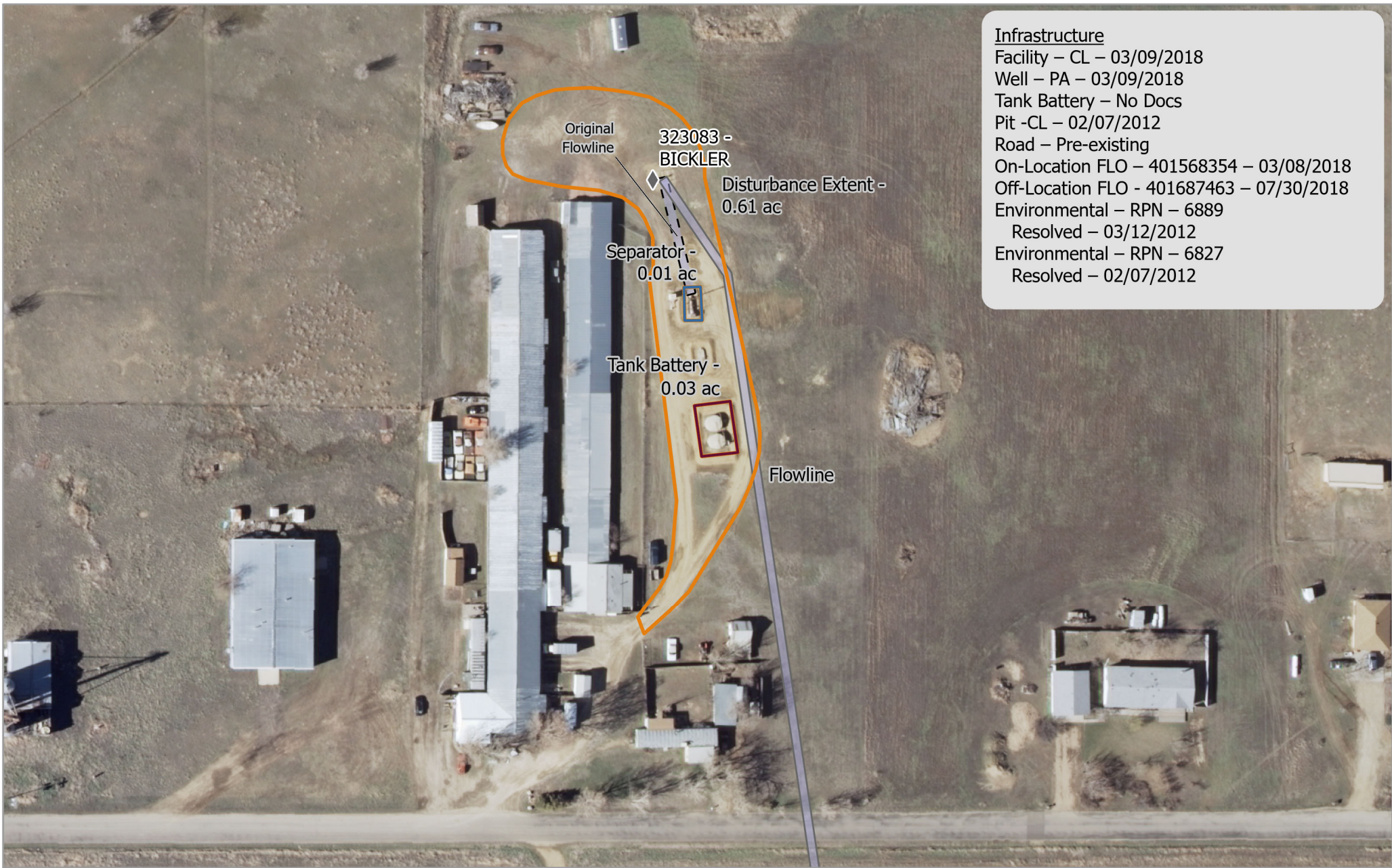
Scale: 1:2,400

Pad Location:
40.009021
-104.996112

N



Service Credits - Maxar, Microsoft



Infrastructure
 Facility – CL – 03/09/2018
 Well – PA – 03/09/2018
 Tank Battery – No Docs
 Pit -CL – 02/07/2012
 Road – Pre-existing
 On-Location FLO – 401568354 – 03/08/2018
 Off-Location FLO - 401687463 – 07/30/2018
 Environmental – RPN – 6889
 Resolved – 03/12/2012
 Environmental – RPN – 6827
 Resolved – 02/07/2012

CIV - 323083- BICKLER
Map Extent - DRCOG 2010

Imagery: DROCG
 Imagery Date: 2010
 Map Date: 10 Dec 2022
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

◆ Wells	▭ Separator
▭ Disturbance Extent	▭ Flowline
▭ Tank Battery	

0 0.01 0.02 0.04 Miles

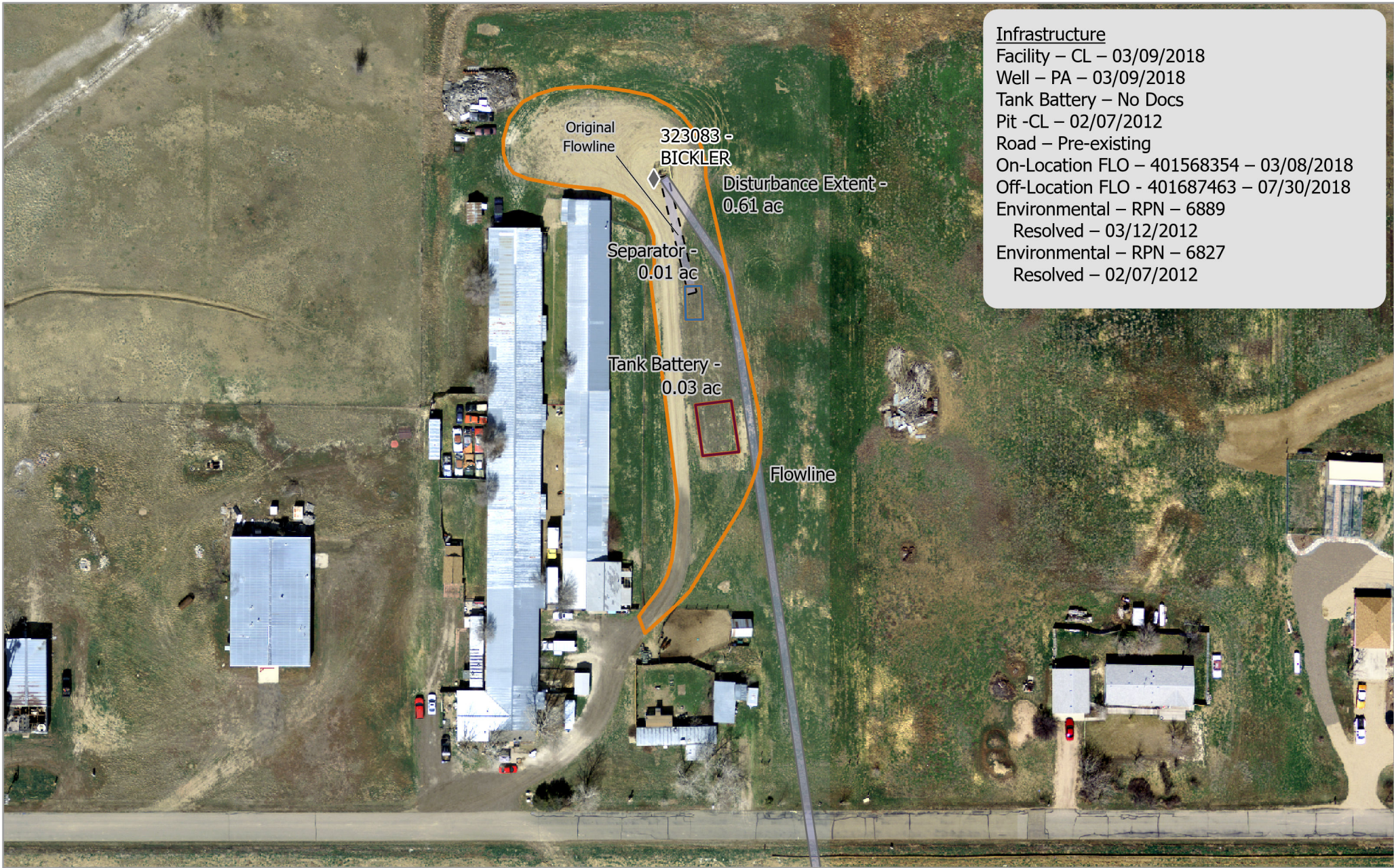
Overall Disturbance: 0.65 Acres
 Scale: 1:1,200

Pad Location:
 40.009021
 -104.996112

N



Service Credits - Maxar, Microsoft



Infrastructure
 Facility – CL – 03/09/2018
 Well – PA – 03/09/2018
 Tank Battery – No Docs
 Pit -CL – 02/07/2012
 Road – Pre-existing
 On-Location FLO – 401568354 – 03/08/2018
 Off-Location FLO - 401687463 – 07/30/2018
 Environmental – RPN – 6889
 Resolved – 03/12/2012
 Environmental – RPN – 6827
 Resolved – 02/07/2012

CIV - 323083 - BICKLER
Map Extent - DRCOG 2014 large

Imagery: DROCG
 Imagery Date: 2014
 Map Date: 10 Dec 2022
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

◆ Wells	▭ Separator
▭ Disturbance Extent	▭ Flowline
▭ Tank Battery	

0 0.01 0.02 0.04 Miles

Overall Disturbance:
0.65 Acres

Scale: 1:1,200

Pad Location:
40.009021
-104.996112



Service Credits - Maxar, Microsoft



Infrastructure
 Facility – CL – 03/09/2018
 Well – PA – 03/09/2018
 Tank Battery – No Docs
 Pit -CL – 02/07/2012
 Road – Pre-existing
 On-Location FLO – 401568354 – 03/08/2018
 Off-Location FLO - 401687463 – 07/30/2018
 Environmental – RPN – 6889
 Resolved – 03/12/2012
 Environmental – RPN – 6827
 Resolved – 02/07/2012

**CIV - 323083- BICKLER
 Map Extent - Overview**

Imagery: RS Orthomosaic & DSM
 Imagery Date: 13 Sep 2022
 Map Date: 10 Dec 2022
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

◆ Wells	▭ Separator
▭ Disturbance Extent	▭ Flowline
▭ Tank Battery	

0 0.02 0.04 0.09 Miles

Overall Disturbance:
0.65 Acres

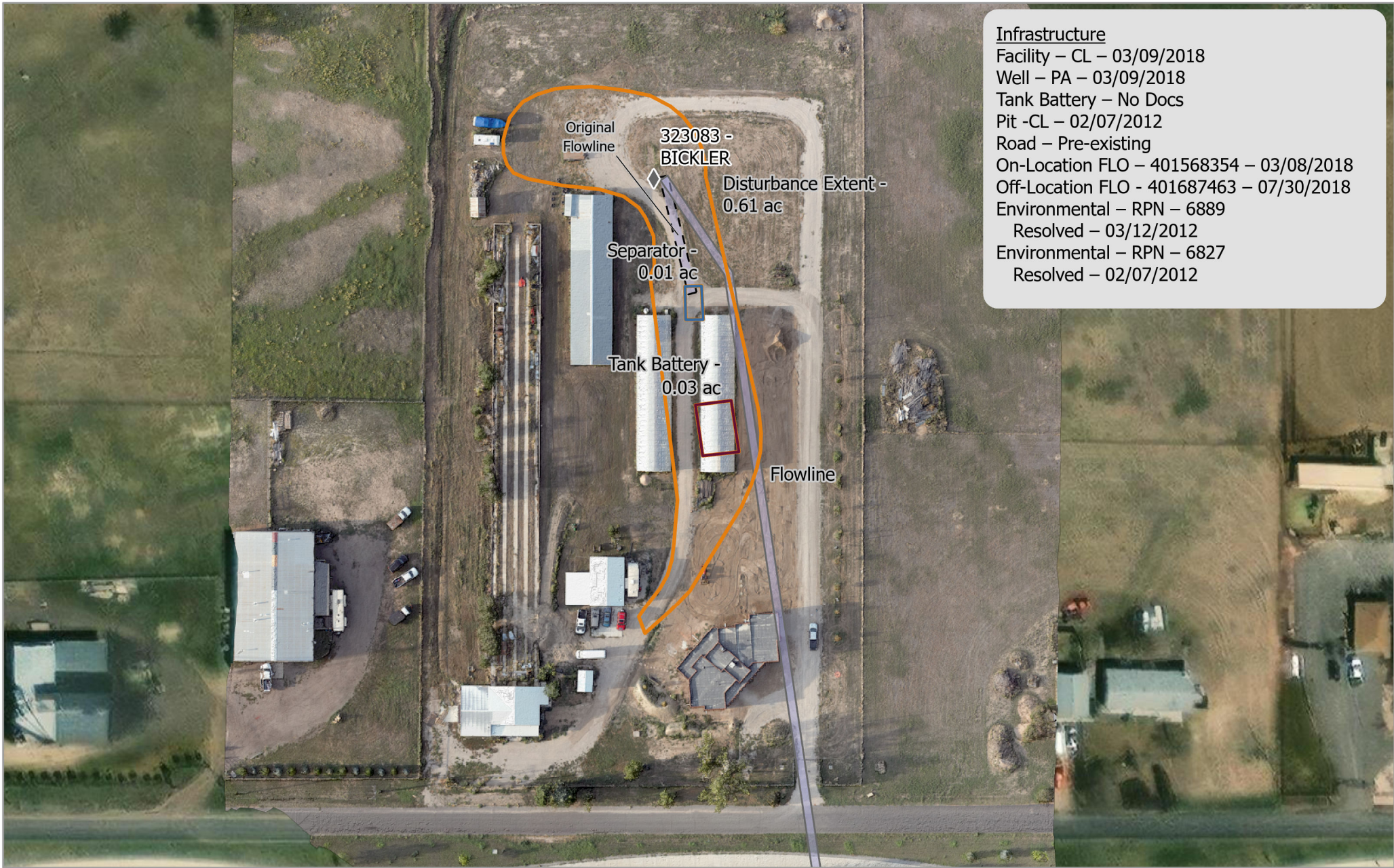
Scale: 1:2,400

Pad Location:
40.009021
-104.996112

N



Service Credits - Maxar, Microsoft



Infrastructure
 Facility – CL – 03/09/2018
 Well – PA – 03/09/2018
 Tank Battery – No Docs
 Pit -CL – 02/07/2012
 Road – Pre-existing
 On-Location FLO – 401568354 – 03/08/2018
 Off-Location FLO - 401687463 – 07/30/2018
 Environmental – RPN – 6889
 Resolved – 03/12/2012
 Environmental – RPN – 6827
 Resolved – 02/07/2012

CIV - 323083- BICKLER
Map Extent - Overview

Imagery: RS Orthomosaic & DSM
 Imagery Date: 13 Sep 2022
 Map Date: 10 Dec 2022
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

Legend

◆ Wells	▭ Separator
▭ Disturbance Extent	▭ Flowline
▭ Tank Battery	

0 0.01 0.02 0.04 Miles

Overall Disturbance:
0.65 Acres

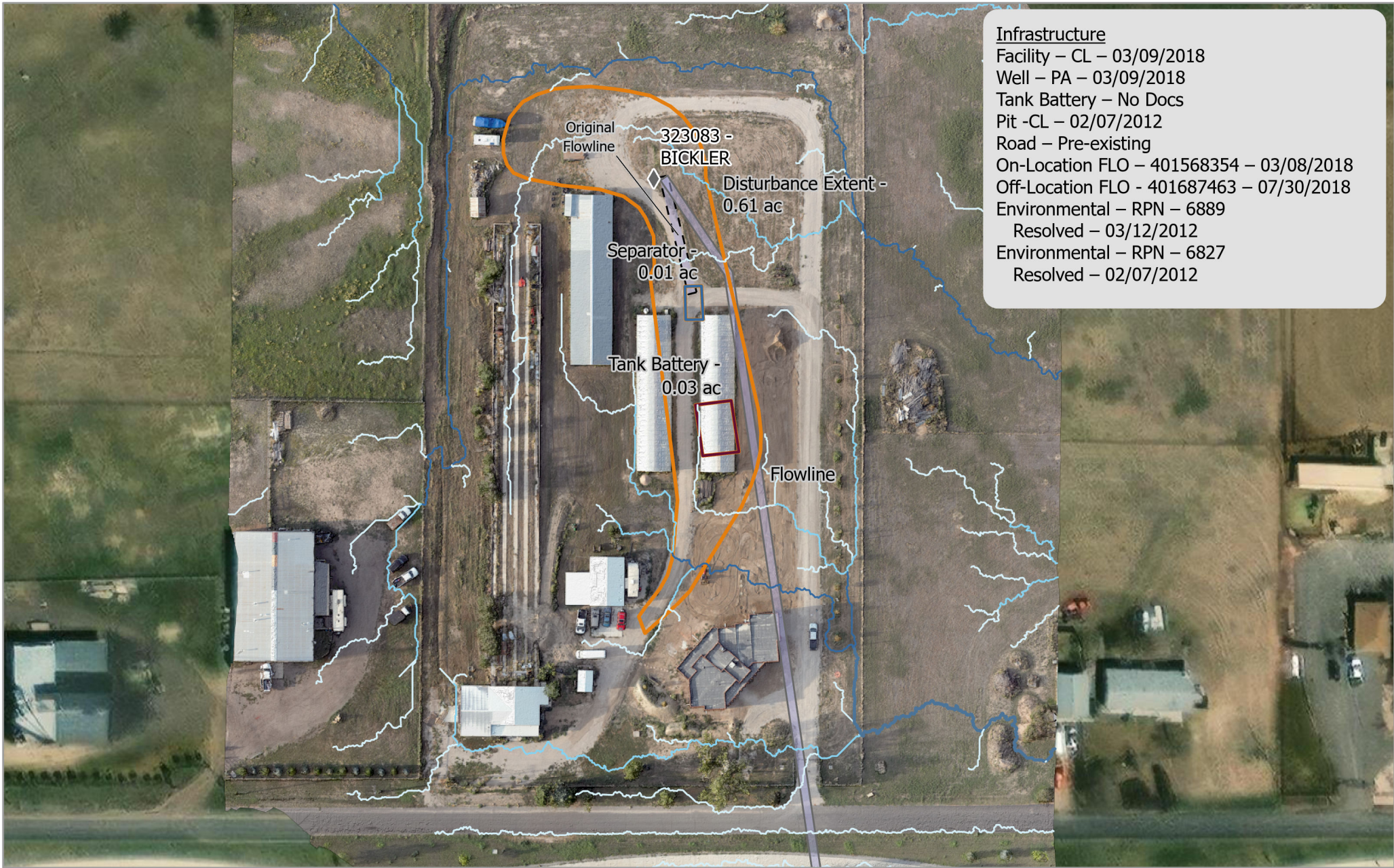
Scale: 1:1,200

Pad Location:
40.009021
-104.996112

N



Service Credits - Maxar, Microsoft



Infrastructure
 Facility – CL – 03/09/2018
 Well – PA – 03/09/2018
 Tank Battery – No Docs
 Pit -CL – 02/07/2012
 Road – Pre-existing
 On-Location FLO – 401568354 – 03/08/2018
 Off-Location FLO - 401687463 – 07/30/2018
 Environmental – RPN – 6889
 Resolved – 03/12/2012
 Environmental – RPN – 6827
 Resolved – 02/07/2012

CIV - 323083- BICKLER
Map Extent - Hydrology

Imagery: RS Orthomosaic & DSM
 Imagery Date: 13 Sep 2022
 Map Date: 10 Dec 2022
 Datum: WGS 1984 UTM Zone 13N
 POC: Soil Sage

◆ Wells	Stream Order
▭ Disturbance Extent	— 1
▭ Tank Battery	— 2
▭ Separator	— 3
▭ Flowline	— 4

0 0.01 0.02 0.04 Miles

Overall Disturbance:
0.65 Acres

Pad Location:
40.009021
-104.996112

Scale: 1:1,200



Service Credits - Maxar, Microsoft

Soil Properties

USDA Soil Description

Location ID / Name	323083- BICKLER-61N68W34SWNW
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Reference Soil Information

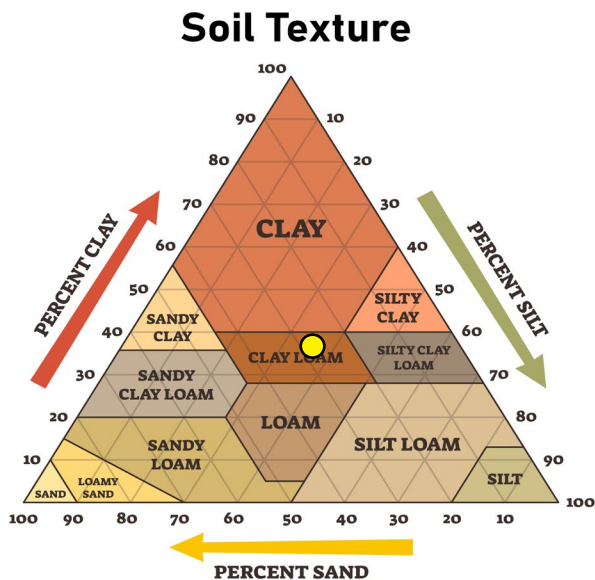
The location of the site is contained within one soil type, Ulm clay loam.

Map Unit 66 Reference Soil information - Ulm clay loam

This soil is formed from alluvium and/or eolian deposits derived from shale. Landform is plains, with the Clayey Plains Ecological Site. Soils are well drained with a high water holding capacity, and slope 0-3 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Partical Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-10	Clay Loam	1.28	29-33-38	7.7	0.5	0.0	1.40
10-20	Clay	1.24	26-30-44	7.9	1.0	0.0	0.69
20-30	Clay Loam	1.28	27-34-39	8.2	1.0	0.0	0.25
30-40	Clay Loam	1.28	27-34-39	8.2	1.0	0.0	0.25
40-50	Clay Loam	1.28	27-34-39	8.2	1.0	0.0	0.25
50 +	Clay Loam	1.28	27-34-39	8.2	1.0	0.0	0.25

Soil Texture Triangle reflect the 0-10 in depth



Erosion Potential (10 inches)

- K Factor, Whole soil - .24. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.
- Wind Erodibility Group – 6. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible.