



Features: within 2,640 feet of the working pad surface (distances are measured from the nearest edge of the working pad surface [WPS] and oil and gas location [OGL])

Feature (wetlands and permitted water wells)	Distance		Direction	Gradient
	WPS	OGL		
1. NWI Riverine/NHD Stream (Intermittent):	±876'	±615'	N	Downgradient
2. NWI Riverine/NHD Stream (Intermittent):	±947'	±675'	SE	Downgradient
3. Water Well:	±450'	±270'	W	Upgradient
4. Water Well:	±871'	±706'	W	Upgradient
5. Water Well:	±1,105'	±773'	W	Upgradient
6. Water Well:	±1,114'	±782'	W	Upgradient
7. Water Well:	±1,128'	±788'	W	Upgradient
8. Water Well:	±1,447'	±1,180'	E	Upgradient
9. Water Well:	±1,702'	±1,404'	W	Upgradient
10. Water Well:	±2,126'	±1,922'	W	Upgradient
11. Water Well:	±2,534'	±2,361'	SW	Upgradient

There are no Rule 411 buffer zones, or surface waters that are 15 miles upstream of a Public Water System intake within 2,640 feet of the WPS.

Nearest Water Well: (as measured from the nearest edge of the proposed working pad surface)

Feature #	Permit #:	Receipt #:	Status	Distance & Direction/Gradient
3	48399-MH	48399	Permit Expired	±450' W. Upgradient.

Nearest Surface Water Feature: (as measured from the nearest edge of the proposed working pad surface)

Feature # and Type	Distance & Direction/Gradient
1. NWI Riverine - R4SBC/NHD Steam (Intermittent)	±876' N. downgradient.

Data Source & Notes:
 Topo Map USGS
 Water Wells: Colorado DWR
 NWI Wetlands: USFWS
 NHD Wetlands: USGS
 Floodplains: FEMA
 PWS/Rule 411 Buffers: ECMC

Publicly available data sources have not been independently verified.

Field verification surveys conducted out to 1,000 feet from the disturbance on 11/29/2023.



Site Name: State Harvard/Yale
 Surface Location: SE & NE Section 8
 T5S:R64W, Arapahoe County, Colorado
HYDROLOGY MAP
 Drawn by: HWA Wildlife Consulting Date Drawn: 9/4/2024 Revised:
 By: L. McConnell Scale: 1 in = 1,300 feet

Legend

Project Development

- Working Pad Surface (WPS)
- Disturbance (Oil and Gas Location)
- 2640-Foot WPS Buffer
- Proposed Road
- NWI Riverine
- NHD Stream/River
- NHD Artificial Path
- NHD Lake/Pond
- Public Permitted Water Well

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