

Sensitive Area Determination Checklist

TEP Rocky Mountain, LLC		
Person(s) Conducting Field Inspection	None Conducted	
Site Information		
Location:	SG 11-22	Time:
Type of Facility:	Proposed Well Pad	
Environmental Conditions	N/A	
Temperature (°F)	N/A	

Has the proposed, new or existing location been designated as a sensitive area?

☐ Yes ☒ No

SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within ¼ mile of the proposed/new or existing facility?

☐ Yes ☒ No

If yes, list type of surface water feature(s), i.e. rivers, creeks, streams, seeps, springs, wetlands:

If yes, describe location relative to facility:

2. Could a potential release from the facility reach surface water features?

☐ Yes ☒ No

If yes, describe the pathway a release from the facility would likely follow to determine if the potential to impact surface water is high or low.

3. Is the potential to impact surface water from a facility release high or low?

☐ High ☒ Low

GROUNDWATER

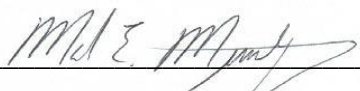
1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?
☒ Yes ☐ No
If yes, List the pit type(s): Drilling Pit on the northwest side
2. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?
☐ Yes ☒ No
3. Is the hydraulic conductivity of the underlying soil/rock material $\leq 1.0 \times 10^{-7}$ cm/sec?
☒ Yes ☐ No
4. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well which would use the same aquifer?
☐ Yes ☒ No
5. Is the proposed facility located within a 100 year floodplain?
☐ Yes (*Sensitive Area*) ☒ No (*If no, proceed to question #6.*)
6. Is the depth to groundwater known?
☐ Yes (*If yes, follow instructions provided in 6(a) of this section.*)
☒ No (*If no, follow instructions provided in 6(b) of this section.*)
 - (a) If yes, could a potential release from the proposed facility reach groundwater?
☐ Yes ☐ No
If yes, explain:
 - (b) If no:
 - (i) Evaluate surrounding soils, topography, and vegetation which may suggest the presence of shallow groundwater.
 - (ii) Gather information from surrounding well data in order to determine a depth to groundwater, i.e. State Engineers Office.
7. Is the potential to impact ground water from the facility in the event of a release high or low?
☐ High ☒ Low

Additional Comments:

As stated in the surface water portion of this sensitive area determination, there are no USGS identified drainage features located within a ¼ mile of the proposed facility. The facility, as it is currently proposed, limits the direction of a potential release to a portion of the northeastern and southeastern sides. If a potential release were to migrate off the facility on these sides, flow would be to the east southeast and south down fairly steep embankments. During facility construction, Best Management Practices (BMP's) should be installed in the form of an earthen perimeter berm on all fill slope sides. If feasible, a diversion ditch should be constructed along the fill slope sides as well to ensure total site containment in the event of a potential release. All BMPs should be monitored and maintained to ensure containment of a potential release on site.

The State Engineers Office and USGS records were reviewed and there are no permitted water wells in the immediate vicinity of the proposed facility. The closest permitted water well is located 6,701 feet (1.3 miles) to the southeast and would not provide accurate information on the depth to groundwater. Based on aerial photography review, the vegetation in the immediate vicinity of the proposed facility is dominated by juniper, sage, and bunch grasses and does not suggest the presence of shallow groundwater. There was no visual evidence of any springs or seeps. In addition, the proposed facility is located on a relatively flat area on the slope leading up to the Roan Plateau. The depth to bedrock (Wasatch or L. Green River Formations) is most likely quite shallow. Based on the topographic setting of the proposed facility it could be assumed that the depth to groundwater, if present, would be in excess of 150 feet if not greater.

Based on the information collected during this desktop review, the potential to impact groundwater has been deemed as low. The potential to impact any surface water features would be deemed to be low as well due to the distance a release would have to migrate and natural topographic highs which would prevent any fluids from reaching these features. With the potential for impacts to both surface water and groundwater being deemed as low, the proposed facility can be designated as being in a non-sensitive area.

Inspector Signature(s):  Date: 2/15/2018

Mark E. Mumby, *Env. Program Manager/RPG*
HRL Compliance Solutions, Inc.