

## Sensitive Area Determination Checklist

<b>TEP Rocky Mountain, LLC</b>		
<b>Person(s) Conducting Field Inspection</b>	None Conducted	
<b>Site Information</b>		
Location:	RWF 12-20 Tank Pad	Time:
Type of Facility:	Proposed Tank Pad	
<b>Environmental Conditions</b>		
Temperature (°F)		

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: There is one (1) unnamed USGS identified intermittent drainage.

If yes, describe location relative to facility: The unnamed intermittent drainage is located 173 feet to the southwest of the proposed 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):
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 or geologic 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 is one (1) unnamed USGS identified drainage feature located within a ¼ mile of the proposed facility. The facility, as it is currently proposed, limits the direction of a potential release to the southeastern side. If a potential release were to migrate off the facility on this side, flow would be to the southeast following the gently sloping natural topography. 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 1,767 feet to the south 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 fairly scarce and consists primarily of sage and bunch grasses which does not suggest the presence of shallow groundwater. There was no visual evidence of any springs or seeps. Based on the topographic setting of the proposed facility and previous studies conducted at the existing facility to the south it could be assumed that the depth to groundwater would be in excess of 50 feet if not greater.

Based on the information collected during this desktop review, the potential to impact groundwater has been deemed as low. Although the unnamed intermittent drainage to the southwest is in fairly close proximity to the proposed facility, the potential to impact it would be low. The proposed facility will be situated in a low lying area between the existing access road to the east and a slight topographic high to the west. Therefore if a potential release were to migrate off the southern side, flow would be to the southeast parallel to the drainage and access road towards and onto the existing centralized E&P facility to the south. 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: 7/17/2018

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