

Sensitive Area Determination Checklist

Williams Production RMT Company – Valley		
Person(s) conducting inspection	Ashlee Lane	10/14/2009
Site Information		
Location:	SG 23-29 well pad	
Site Activity:	None-proposed location	
Personnel on-site:	None:	
Environmental Conditions	Cloudy, cool, showers	
Temperature (°F)	~50	

1. Will the pit of the proposed facility contain hydrocarbons and chlorides or other E&P wastes?

☒ Yes ☐ No

If yes, list pit type(s): Drilling pit, Flare pit

SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within the ¼ mile buffer zone?

☒ Yes ☐ No

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

Smith Gulch

If yes, describe location relative to facility:

It is located approximately 20 to 50 feet southwest of the proposed edge of the pad.

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

☒ Yes ☐ No

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

Based on the proposed location a potential release could flow off the southwest edge of the pad and directly into Smith Gulch. In addition a potential release could affect Smith Gulch depending on how the access road is constructed.

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

☐ High ☒ Low

GROUNDWATER

1. Is the site of the proposed facility underlain by an unconfined aquifer?
☒ Yes ☐ No (*If no, this section does not need to be completed.*)
2. Is the hydraulic conductivity of the underlying soil or bedrock $\geq 1.0 \times 10^{-7}$ cm/sec?
☐ Yes ☒ No
3. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well?
☐ Yes ☒ No
4. Is the proposed facility located within a 100 year floodplain?
☐ Yes (*Sensitive Area*) ☒ No (*If no, proceed to question #5.*)
5. Is the depth to groundwater known?
☐ Yes (*If yes, follow instructions provided in 5(a) of this section*)
☒ No (*If no, follow instructions provided in 5(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 and vegetation which may suggest the presence of shallow groundwater
 - (ii) Drill a soil boring to determine depth to groundwater.
 - (iii) Model hydro geologic conditions to determine if the potential to impact groundwater is high or low.
6. Is the potential to impact ground water from a facility release high or low?
☐ High ☒ Low

Additional Comments:

The proposed pad essentially lies adjacent to Smith Gulch, which near its source, is considered intermittent based on field observations and vegetative cover. However in the vicinity of the proposed pad, Smith Gulch appears to ephemeral based on the vegetation in and around the bottom of the creek. Therefore, based on the location of the proposed pad, a potential release to flowing surface waters from this location would be low.

There is no groundwater data available for the area in close proximity to the proposed location. However based on vegetative cover it does not appear shallow groundwater is present. In

addition based on field observations: when the pad is constructed it appears that the cut portions of the location will be in the Wasatch Formation, which in this immediate vicinity, appears to be predominantly shale which would have low hydraulic conductivities. Based on the above information and field observations this pad can be designated as being in a non-sensitive area

Inspector(s) Signature(s):

M/E M/pt

Date: 10/22/2009

Ashlee hane

Date: 10/14/2009

Ashlee hane