

Agency	Comment	Response
Tri-County Health	If an On-site Wastewater Treatment System is used then a permit will be required from Tri-County Health.	NA
Tri-County Health	TCHD recommends the following for well permits and water rights holders located within one-half mile of the proposed oil and gas well as they are likely used or will be used for drinking water for humans or animals.	Great Western invited residents within a half mile of the facility to a neighborhood meeting. At this meeting, Great Western solicited attendees with water wells to participate in the COGCC-required baseline water sampling program. If any resident would like to discuss having their water well tested, please call Great Western Community Relations at 720-317-7989.
	a. That the County or applicant notify owners of the wells or groundwater rights owners of the proposed application;	
	b. That the County refer well owners who want to test their wells to TCHD for guidance on recommended testing parameters, procedures for selection of qualified sampling professionals and laboratories, and sharing of data; and c. That the County refers well owners desiring guidance for wellhead protection to TCHD.	
Tri-County Health	Tri-County is requesting to review information regarding the source of water for workers as well as any proposed potable water systems used by workers.	Bottled water is utilized
Tri-County Health	Non-potable water stored on site should be marked accordingly.	Comment Acknowledged
Tri-County Health	Secondary containment must be provided for all on site fuel storage.	Secondary containment will be provided as required.
CPW	If possible, return the site to native habitat.	Great Western will follow reclamation regulations of the COGCC.
CPW	If prairie dogs are present on the site or if prairie dogs establish themselves on the property prior to development then a burrowing owl survey should be conducted.	Great Western will follow appropriate regulations.
CDPHE	Electrical equipment and device: Utilize electrical equipment and devices to the extent practicable in order to reduce emissions	Great Western will utilize electrical equipment and devices as required by the regulations
CDPHE	Odors: Implement BMP's to reduce Odors during each phase. Examples include but are not limited too; i. Chillers and chemicals to mask or neutralize hydrocarbon odors from drilling mud; ii. Squeegee to remove drilling fluids from drilling pipe as the pipe is removed from the wellbore; iii. Covered containers to store drilling mud; iv. Minimize use of diesel fuel	Odor BMP listed on COGCC Form 2A will be followed.
CDPHE	Management of exploration and production waste: The division recommends testing for and properly disposing of technologically enhanced naturally occurring radioactive materials (TENORM).	Great Western will manage exploration and production waste in accordance with applicable regulations.
CDPHE	Installation of pipelines: Prior to commencing commercial production, connection to pipeline with adequate takeaway capacity. i. Maximum utilization during green completions. Minimize flaring natural gas (reduce overall emissions)	Prior to commercial production, Great Western plans to connect to a third party gas pipeline. We will utilize green completions per the BMP on the Form 2A.
CDPHE	Minimize flaring: Project is located in the Denver/Metro Front Range (DMNFR) ozone nonattainment area, so the division is recommending limited use of flares to the extent practicable to facilitate emission reduction.	Great Western will minimize flaring to the extent practicable.
CDPHE	Plugging and abandonment: Implement measures to control unnecessary and excessive venting during plugging and abandonment operations.	Great Western will implement measures to control unnecessary and excessive venting during plugging and abandonment operations.
Adams County	What is the schedule for activities including but not limited to: pad construction, drilling operations, completions, and implementing interim reclamation.	Great Western expects to begin construction on the Baseline Pad in Q2 of 2019. Construction of the drill pad will take approximately 1 month to complete. For our first occupation, we intent to drill 8 wells off of this pad, taking approximately 6 days per well. Completions will follow and will take approximately 12 days per well. Interim reclamation will be conducted under company supervision per COGCC regulations after all planned wells are drilled. Our schedule is subject to change.
Adams County	Will Great Western be monitoring the site for emissions? If yes, please provide additional information.	Great Western conducts monitoring during drilling and completions and performs frequent inspections during production (AVO and LDAR).
Adams County	Will the oil and gas wells have remote shut in capabilities? If so, how will that capability assist in the response to emergencies or minimize impacts in case of an emergency?	Yes our sites are programmed with remote shut in capabilities. This capability allows us to remotely access the Control System on site and shut in any or all wells within seconds. This allows us to shut in the wells first then dispatch someone to site rather than having to go to site to shut them in.

Adams County	How frequently will the facility be inspected for mechanical integrity and emission leaks?	We are required to perform AVO (audio/visual/olfactory) inspections any time we are onsite. This allows us to catch emissions leaks as they occur. We are also required to perform periodic inspections with a FLIR camera to verify no other leaks are present. As for the mechanical integrity, we complete annual recorded pressure tests on all piping on site up to the Maximum Operating Pressure. Along with these tests, we have automated pressure gauges throughout our site that allow us to remotely monitor differential pressures on lines to help pinpoint a leak, if one were to occur. Great Western conducts ECD monitoring daily; AVO inspections weekly; and LDAR as required by Colorado Regulation 7 (initially estimated at monthly).
Adams County	Has Great Western identified and contacted private water well owners located within one-half mile from the oil and gas well pad that will be tested for baseline conditions?	Great Western invited residents within a half mile of the facility to a neighborhood meeting. At this meeting, Great Western solicited attendees with water wells to participate in the COGCC-required baseline water sampling program. Additional outreach will be conducted if more water wells are needed to meet COGCC testing requirements.
Adams County	Please provide an overall site plan showing the location of the lease area on the larger parcel. Please include the setbacks of the well locations from all property lines and the nearest right-of-way, residential structures, etc. Staff is concerned about the location of future residential uses in the Baseline Lakes subdivision. The landscape must show adequate visual mitigation from these uses.	An overall site plan, showing the whole parcel where the oil and gas site will be located has been included. The existing subdivision parcel lines are also visible for reference. Distances to the nearest property lines, right of ways, and residential structures are also included in the plan. The landscaping (and site grading) includes construction of a 12 foot high screening berm, as well as follows the Adams County requirements for industrial to residential bufferyard landscaping, per 4-16-18 - Bufferyards. Please reference the Land Use Bufferyard Summary Table on sheet L102 of the Landscape Plan.
Adams County	Screen fencing is required in addition to landscaping. All screen fencing must be located on the interior of the landscape. The submitted plan shows a chain link fence during the temporary landscape plan, but no fencing for the final. Please provide the proposed elevation showing height, design, and materials.	Great Western Operating Company and the contractor have chosen to construct a 12 foot high screening berm in lieu of a screening fence. The screening berm extends around the North (public ROW), West (Land Use), South (Land Use), and East (Land Use) sides of the well site. The requirement is a 6 foot high obscure screening fence. The screening berm will provide obscure screening of the site that is 12 feet high (double the requirement). The landscaping plan also shows landscape trees and shrubs on the outside of the berm to provide additional natural screening and improve the aesthetics of the berm. A section/elevation view of the berm and landscaping in relation to the pad and adjacent land use is included in detail 1 on sheet L104 of the landscape plan. There is a short section of the well site along the northeast pad edge that is shown to have a 2 foot high berm plus landscape trees and shrubs, per option 5 of the public right-of-way buffer as specified in section 4-16-19-01 (e). This section of the pad does not have adjacent (current or future) residential use. This area meets the requirement for screening adjacent to the public right-of-way, per this section. A section/elevation view of the is section of the
Adams County	The plan must include the proposed irrigation method (water truck, drip system, etc).	The landscape plan originally called out a landscape irrigation system would be installed in note 8 on sheet L102 of the landscape plan. This note has been expanded to include design-build notes of a "landscape drip irrigation system" to be installed by the landscape subcontractor.