

Agency	Comment	Response
Tri-County Health	Domestic Wastewater Management: TCHD maintains a list of licensed wastewater system cleaners, which can be used to verify the subcontractor providing wastewater service is licensed to perform the work.	Comment Acknowledged
Tri-County Health	Baseline Water Quality Testing: TCHD recommends that any owner of a water well located within one-half mile of the proposed oil and gas operation have the opportunity to obtain a baseline test prior to the initiation of development activities.	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.
Tri-County Health	Water Supply for Use by Workers: TCHD will need to review information regarding the source of water for workers as well as any proposed potable water systems.	Bottled water is utilized
Tri-County Health	Non-potable water storage should be marked with a sign indicating the water is non-potable.	Comment Acknowledged
Tri-County Health	All storage tanks must have a secondary containment area, a routine monitoring system, and best management practices implemented in order to prevent the release of contaminants.	Secondary containment will be provided as required.
Tri-County Health	Contact TCHD immediately in the event of a leak or spill from domestic wastewater system.	NA - domestic wastewater system not present
Tri-County Health	TCHD recommends including a regulatory analysis determining the applicability of state and federal air quality permitting requirements.	Great Western conducts our operations in accordance with applicable state and federal air quality regulations
Tri-County Health	TCHD encourages the applicant to follow best management practices for erosion control specifically to minimize excessive dust from land disturbing activities.	Erosion control and excessive dust BMPs are included on the COGCC Form 2A.
Tri-County Health	TCHD recommends the applicant incorporate traffic control best management practices including, but not limited to limiting traffic during specific hours if the designated truck route overlaps with a local school bus route(s).	Great Western will incorporate traffic control BMPs to the extent practicable.
CPW	Reclamation and landscaping should include diverse native vegetation representative of a native habitat.	The production phase pad area will be seeded using the Adams County seed mix, as stated in the seed mix schedule on sheet L102 of the landscaping plans. Additionally, the trees and shrubs specified on the landscaping plan are approved species to meet the Adams County landscaping requirements for this development.
CPW	If prairie dog colony is discovered the potential may exist for Burrowing owls to be present. Burrowing owls are protected by both state and federal laws. If earth-moving activities begin between March 15th and October 31st, a burrowing owl survey should be completed.	Great Western will follow appropriate regulations.
CDPHE	The proposed well pad is located in the Denver Metro North Front Range ozone non-attainment area, so electrical equipment and devices should be utilized to the extent practicable in order to reduce emissions. Flaring of natural gas should be limited to emergencies only to the maximum extent practical and should be controlled with an enclosed combustor with 98% efficiency.	Great Western will minimize flaring to the extent practicable.
CDPHE	Odors: Implement BMP's to reduce Odors during each phase. Examples include but are not limited to: 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	It has been recommended that prior to commencing commercial production the facility connect to pipeline with adequate takeaway capacity in order to: i. Maximum utilization during green completions; ii. Minimize flaring natural gas; iii. Reduce overall emissions	Prior to commercial production, Great Western plans to connect to a third party gas pipeline. We will utilize green completions, if technically feasible.
CDPHE	Implement measures to control unnecessary and excessive venting during plugging and abandonment operations.	Great Western will control unnecessary and excessive venting during plugging and abandonment operations to the extent practicable.
CDPHE	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.

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 wellpad from all property lines and the nearest right-of-way, residential structures, etc. Staff is concerned about the proximity of future residential uses adjacent to the site, as well as the pad visibility from Quebec Street. The landscape must show adequate visual mitigation.	An overall site plan, depicting the entire parcel including the location of the oil and gas site, has been included with this letter. The existing subdivision parcel lines are visible for reference. Distances to the nearest property lines, right-of-ways, and residential structures are also included on the plan. The nearest residential use is located approximately 1,270 feet to the south to a single residence (Petersen). The nearest residential use in a subdivision, is the Quebec Highlands Subdivision to the southeast. However, the single residence (Petersen) Quebec Highlands Subdivision is located over a hill to the southeast and is not within direct visual sight lines of the site, due to the hill. The nearest residential use within direct sight lines is the Springvale Subdivision to the West (over 3,000 feet) and the Heritage Todd Creek Subdivision to the North (over 4,000 feet), located across the E-470 Toll Road from the proposed site. The landscaping will include the construction of a 4 foot high split rail fence along the north and east side of the site. In previous conversations with the County, a decorative 4-foot high split rail fence would be appropriate where there is no directly adjacent residential use (approx. 500 feet). Per Adams county requirements, the fence will be located on the interior of the landscaping. The proposed landscaping along the west side of the site will follow the Adams County requirements for land use landscaping per regulation 4-16-18-01 – Bufferyard D. (Please reference the Land Use Bufferyard Summary Table on sheet L102 of the Landscape Plan for compliance comparisons.)
Adams County	The plan must include the proposed irrigation method (water truck, drip system, etc).	The landscape plan originally stated a landscape irrigation system would be installed as stated in note 9 on sheet L102. This note has been expanded to include design-build notes of a “landscape drip irrigation system” to be installed by the landscape subcontractor.
Adams County	The landscape notes indicate all trees will be mulched with red cedar mulch, however, this is not reflected in the table for % non-living material. Please revise table.	The table has been updated to show 99% living and 1% non-living, assuming a 6 foot diameter mulch circle around the trees.
Adams County	Please provide additional detail on proposed berm (height, slope ratio, etc).	A topsoil stockpile berm 10 foot high with a 3:1 slope and a 5 foot crest will be constructed at the north end of the pad (site). The topsoil berm will remain until final reclamation of the oil & gas site. The drilling phase will also include a small diversion berm as a stormwater management BMP. This berm will be 1 foot high with 3:1 side slope and a 1 foot crest. The landscape plan has been updated to reflect the berm details. The landscape plan has been updated to reflect the berm details.