

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.
Brighton Fire	The non-emergency line for us is 303-288-1535. Please change this on the contact lists.	This has been changed on the site-specific ERP and will be included on the TRP card.
Brighton Fire	The ERP submitted is a helpful resource for your employees and responder, however in order to better aid our responders we are requesting an overview document or summary card that contains the information that may be referenced quickly by our personnel. This document should be site specific and a copy should be provided to us to be kept in the responding fire apparatus. (Great Western is already aware of this request and has stated they will get it to us as soon as it is available) The summary card should include the following at a minimum:	The TRP card for this site, as well as other sites in the Brighton Fire Rescue district, will be provided soon.
Thornton	The City of Thornton requests the opportunity to review a detailed landscaping and overall site mitigation plan. The City requests a formal landscaping plan, including information regarding proposed planting, irrigation, fencing, screening and berms. The City also requests to review a lighting plan and believes that the plan should propose to eliminate any light trespass from the site.	The landscaping plan has been provided with the AUSR application and follows Adams County landscaping requirements. As a courtesy, we have emailed the landscaping plan to the City of Thornton on 2/21/2019. Light sources will be directed downwards and away from occupied structures where possible. Permanent lighting is minimal at the location and only used when an operator is on location.
Thornton	Thornton may not have ROW for the ultimate cross section of Quebec Street. However, the development should not encroach into what would be the future ROW needed for the ultimate cross section of Quebec Street.	Great Western is working with Thornton on road improvements on Quebec Street, including not encroaching on what would be the future right of way.
Thornton	A traffic impact plan describing proposed access routes, quantity of various vehicle types, etc. must be submitted.	A traffic study has been included with the AUSR application. Additionally, as we work with Thornton on road improvements, traffic plan information will be provided.
Thornton	The construction and use of the proposed access onto Quebec Street must be a minimum of 24 feet wide with 35 foot minimum paved radii at the intersection with Quebec Street. Asphalt should be a minimum 6 inches thick for the first 24 feet of the access leading from existing edge of pavement of Quebec Street.	Great Western is currently working with the City of Thornton engineering department on Quebec Street road improvement.
Thornton	The access leading from Quebec Street should be improvement for a minimum of 200 feet.	Great Western will meet Thornton and Adams County requirements for this access.
Thornton	Mud or debris tracked on Quebec Street must be cleaned in accordance with Section 38-394 of City Code.	Great Western will follow city code requirements regarding mud or debris tracking.
Thornton	A left turn lane from Quebec Street into the access and a right turn lane from Quebec Street into the access will be required. The construction of the turn lanes must be in compliance with Thornton standards and specifications.	Great Western is currently working with the City of Thornton engineering department on Quebec Street road improvement.
Thornton	The proposed access onto Quebec Street may be required to be relocated in the future depending on how adjacent development occurs.	Comment Acknowledged
Thornton	The City of Thornton requests the opportunity to review an emergency response plan for the proposed well pad. The City also requests that the operator engage with the Thornton Fire Department and North Metro Fire Rescue District regarding emergency response planning. Additionally, the City requests initial and ongoing response training with the operator on the site. Furthermore, the City requests that no flaring occur at this site, but if flaring does occur that the City of Thornton Emergency Communications Center be notified.	North Metro Fire is the designated fire department for this site. Great Western has met with Chief Bybee at North Metro and the Chief requested that he coordinate with Thornton Fire Department. He is planning to set up a meeting between all of us and will pass on any ERP we provide.

E-470 Public Hwy Auth.	Occupying space for utility work, access, and any construction within the E-470 ROW and property owned in fee is subject to and will be in compliance with the E-470 Public Highway Authority Permit Manual, April 2008, as may be amended from time to time (the "Permit Manual") and will require an E-470 Construction or Access Permit. The administration fee is \$75,000 per acre for construction.	Great Western will apply for this Right of Way permit if we encroach upon the right of way.
E-470 Public Hwy Auth.	Clearly identify the E-470 ROW and property on drawings.	The E-470 ROW and distance to the edge of the ROW have been included on the overall site plan.
E-470 Public Hwy Auth.	Provide dimensions from the edge of the ROW to the edge of the closest proposed wells and tanks.	Dimensions from the edge of the ROW to the edge of the closest proposed wells and tanks have been included on the plan.
E-470 Public Hwy Auth.	Please advise if we can be of further assistance. For any question please contact Chuck Weiss at 303.537.3420 or cweiss@E-470.com	Comment Acknowledged
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, if technically feasible.
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.
High Plains Water Users Association	The HIGH PLAINS WATER USERS ASSOCIATION currently operates a community well at 13955 Quebec Street. I would like some assurances that the proposed Well's will not affect our community well water.	Great Western conducts baseline groundwater testing per COGCC regulations. To discuss having your water well tested, please contact us at 720-319-7978.
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 Kortum Pad in Q3 of 2019. Construction of the drill pad will take approximately 1 month to complete. For our first occupation, we intend 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. If any resident would like to discuss having their water well tested, please call Great Western Community Relations at 720-317-7989.
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, 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 within direct sight lines is the Todd Creek Farms and Wheatland Estates Subdivisions to the North and is located across the E-470 Toll Road from the proposed site. The nearest residence is located over 900 feet from the nearest well. The landscaping will include the construction of a 4 foot high split rail fence around the entire 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 north and east side of the site will follow the Adams County requirements for right-of -way landscaping per regulation 4-16-19-01-Opt 2. As there are not any adjacent uses within visual sight lines along the south edge of the site, no landscape bufferyards are planned
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 for a "landscape drip irrigation system" to be installed by the landscape subcontractor.