

SUMMARY OF OTHER JURISDICTIONS' RULES FOR 3 QUALITY OF LIFE ISSUES

Visual Mitigation, Traffic and Wildlife

Notes:

BMPs = Best Management Practices

CPW = Colorado Parks & Wildlife

ESAL = Equivalent Single Axis Load

LGD = Local Government Designee (Diane Kocis)

Low-Profile Tanks are 16 feet high (O&G tanks can be 32 feet in height)

OA = Operating Agreement - similar to an MOU, but operator-specific and stricter BMPs

TBD = To Be Determined

Jurisdiction	Rule Topic	Adopted or Proposed Rule and Date	Rule Summary
Adams County	Visual Mitigation	Adopted September 3, 2019	<p>Visual Mitigation Plan to include: Proposed colors, location of outdoor lighting, fencing and berming to screen the facility (fencing must be approved by Community and Economic Development Dept.)</p> <p>Colors matched to but slightly darker than the surrounding landscape for any facilities observable from public highway.</p> <p>Landscaping required.</p> <p>Site shall be properly secured.</p> <p>Remove debris promptly.</p>
Adams County	Traffic		<p>After Alternative Site Analysis, Staff will determine which site is most likely to have the least offsite impacts.</p> <p>Operator may be required to submit traffic impact studies.</p> <p>Operator can submit an independent Traffic Impact Study for consideration. Any independent study shall follow</p>

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			<p>the Traffic Impact Fee study methodology.</p> <p>Limit traffic to/from site.</p> <p>Minimize traffic on air quality action days.</p> <p>Minimize traffic impacts to infrastructure.</p> <p>Road Impact Fee and Road Maintenance Fee due at issuance of permit.</p> <p>Use existing access for truck traffic.</p> <p>No permanent tanks on site (use pipelines).</p> <p>Use temporary water lines rather than trucking water.</p> <p>Wastewater injection not allowed (that takes some traffic off the roads).</p>
Adams County	Wildlife		Operator may be required to submit Environmental Impact Assessment.
Aurora	Visual Mitigation	Operating Agreements with Conoco and Axis (aka Extraction) June 5, 2019 and July 24, 2019, respectively	<p>Visual Mitigation Plan required.</p> <p>All permanent aboveground production equipment shall be painted tan or brown.</p> <p>Low-profile tanks required if technically feasible.</p> <p>Permanent opaque fencing required around production equipment and shall be secured. Chain link not allowed.</p> <p>Landscape Plan required. Includes fencing and other BMP criteria. Operator shall</p>

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			<p>implement the Landscape Plan when new development is constructed within 1500' of a well site.</p> <p>Tree mitigation: limit the number of trees removed for the pad.</p> <p>Debris removal promptly.</p> <p>Noxious weed control. Requires Green Completions, which include having pipelines in place prior to completions.</p> <p>A combination of berms, bales and sound walls to address visual impacts (as well as noise) during drilling and completion. Reclamation</p>
Aurora	Traffic		<p>Application materials include description of road access and haul route and Road Maintenance Agreement.</p> <p>Traffic Letter or other analysis requested for Pre-Application notes as well as Traffic Management Plan.</p> <p>Transportation of raw water used for completions via pipeline.</p> <p>Permanent tanks allowed but limited to 9 tanks to reduce traffic (pipelines encouraged).</p> <p>Operator may use temporary tanks for up to one month without the need for visual screening.</p> <p>Operator shall submit a Traffic Management Plan as part of the application process that</p>

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			<p>includes proposed haul routes for transportation of equipment, water, sand, waste fluids, waste solids, mixed waste and all other materials to be hauled.</p> <p>List estimated weights of vehicles, access locations, estimated truck volumes, identification of the need for additional traffic lanes, restriction of non-essential traffic to periods outside of peak am and pm traffic periods and during school hours of schools along the routes.</p> <p>Road repairs will be addressed per the Road Maintenance Agreement.</p> <p>Injection wells not allowed within City limits (would increase traffic)</p>
Aurora	Wildlife		Wildlife Impact Mitigation Plan applicable if the wellsite is within a significant wildlife habitat as defined by CPW or is in an open space area. In such cases operator will consult with CPW.
Boulder County	Visual Mitigation	<p>Rules adopted March 23, 2017, some of “strictest in Colorado”.</p> <p>Under a moratorium that ends March 28, 2020.</p> <p>New regulations to be reviewed by Planning Commission March 17, 2020.</p>	<p>Paint equipment uniform, non-contrasting colors that blend with landscape.</p> <p>Minimize tree removal and damage to existing trees.</p> <p>Equipment removed within 30 days of completion.</p> <p>Removal of debris</p> <p>Land Disturbance Mitigation Plan, which includes visual mitigation</p>

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			Agricultural Mitigation Plan: Avoid loss of agricultural land.
Boulder County	Traffic		Transportation Plan required Detailed traffic management plan with weights of vehicles when loaded, access locations, trucking routing map, and identification of safety & mitigation measures.
Boulder County	Wildlife		Natural Resources Mitigation Plan required that deals with wildlife and wildlife habitat.
City and County of Broomfield	Visual Mitigation	Extraction Operating Agreement (O/A) October 24, 2017 New rules proposed (2019). Held workshops in February 2020 Council Study Session in March 2020. Date TBD.	Permanent facilities painted uniform non-contrasting, non-reflective colors that blend with landscape. (O/A) Permanent perimeter property fencing generally required. (O/A) Removal of debris (O/A) Proposed: Require pipelines for all freshwater, produced water, and O&G pipelines to/from O&G site. Proposed: During drilling & completion phases require minimum 32' high sound wall to screen O&G operations from view. Proposed: Require Landscaping & Visual Berming Plan for duration of operations.
City and County of Broomfield	Traffic		Traffic Management Plan (O/A) Baseline traffic analysis (O/A)

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			<p>Operators required to identify all access routes to proposed facilities. (O/A)</p> <p>Traffic Plan shall: Provide sight distance, turning volumes in/out of each site. Needs to be approved by Broomfield prior to construction. (O/A)</p> <p>Convert truck traffic volumes to ESALs using both existing volumes and proposed volumes with new O&G activities. (O/A)</p> <p>Core drill or boring samples of Broomfield roads to determine adequacy of roadway structure. (O/A)</p> <p>Identify need for additional traffic lanes. (O/A)</p> <p>Restriction of traffic to/from O&G sites to periods outside of peak traffic and school hours. (O/A)</p>
<p>City and County of Broomfield</p>	<p>Wildlife</p>		<p>Proposed: Provide baseline Environmental Impact Assessment with mitigation measures.</p> <p>Proposed: Provide Wetlands Protection Plan.</p>
<p>Commerce City</p>	<p>Visual Mitigation</p>	<p>Draft rules shared with LGD March 11, 2020</p>	<p>Visual Mitigation Plan required demonstrating how the operation will blend into the surrounding landscape that includes consideration of fencing materials, berming and use of existing vegetation and natural contours to the maximum extent possible.</p> <p>Shall include photographic simulations that include proposed mitigation measures.</p>

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Commerce City	Traffic		<p>Traffic Control Plan showing public and private roads that traverse or provide access, the trips/day for each type of vehicle, proposed haul routes and measures to mitigate the impacts.</p> <p>Traffic Impact Study required to clearly identify and distinguish impacts to City roads, showing operations and ongoing new traffic generated.</p> <p>Traffic Mitigation Plan required that includes ongoing roadway maintenance and improvements or reconstruction as well as financial assurance.</p>
Commerce City	Wildlife		<p>Application requirement: Show location of sensitive wildlife habitats, nature areas or open space identified on application.</p> <p>A Wetlands Protection Plan is required if any part of the proposed operation is adjacent to a wetland.</p>
Ft. Collins		Draft regulations went before the Planning Commission on Oct. 30, 2019 and City Council on Nov. 4, 2019. Following the public hearing, Council elected to postpone action on ordinance 2235 to allow more time for the proposed regulations to be further revised with additional stakeholder feedback.	
Greeley		Greeley will update their Code to include some new O&G rules in August 2021.	
Larimer	Visual Mitigation	Proposed Rules to go before their BoCC on March 23, 2020	<p>For all phases of site development, fencing required for security and visual aesthetics.</p> <p>Landscaping and/or fencing for screening and visual quality as</p>

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			viewed from public rights-of-way and neighboring residential areas required within 6 months from the time of well completion in accordance with requirements for the zoning district.
Larimer	Traffic		<p>Traffic Impact Analysis and Routing Plan required with all applications.</p> <p>Private access drives shall be “Local Low Volume” cross section and must include a mud and debris tracking pad at the end of the paved portion.</p>
Larimer	Wildlife		<p>Promote and protect the public health, safety and welfare, and protect the environment and wildlife by minimizing the adverse impacts of O&G facilities</p> <p>Shut down equipment leaks that pose a threat to wildlife or the environment immediately.</p> <p>Odor Mitigation Plan required for all applications describing how public and wildlife will be protected.</p> <p>Operator shall take precautions to prevent adverse environmental impacts to air, water, soil, or biological resources to the extent necessary to protect public health, safety and welfare, including the environment and Wildlife Resources to prevent unauthorized discharge or disposal of oil, gas, Exploration and Production Waste, chemical substances, trash, discarded equipment, or other oil field waste.</p>

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Thornton	Visual Mitigation	Adopted August 22, 2017. Currently under revision.	The size of the structure and surface equipment for present and future operational needs shall be minimized as much as possible without compromising safety concerns.
Thornton	Traffic		<p>Transportation Plan to include:</p> <ul style="list-style-type: none"> • Description of all proposed private and public access and haul routes for all product produced and transported, delivered equipment and materials. • Description of each vehicle type, loaded and unloaded weight and number of wheels and axles. • Description of proposed routes and anticipated times of travel to ensure that public roads and public intersections will be used in a manner to minimize delays.
Thornton	Wildlife		<p>Wildlife and Habitat Assessment Mitigation Plan to include the existing wildlife and wildlife habitat, as defined by CPW, and projected impacts and mitigation steps to avoid significant degradation.</p> <p>Shall not cause significant degradation of wildlife and habitat.</p> <p>Where siting is in a significant wildlife habitat as defined by CPW or where designated in the City's Comprehensive Plan, the operator shall implement</p>

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			procedures as recommended by CPW.
Weld County	Visual	Adopted new regulations July 22, 2019 Already in the process of code changes.	<p>Production facilities observable from any public highway shall be painted with uniform, non-contrasting, non-reflective colors matched to but slightly darker than the surrounding landscape.</p> <p>All locations shall be kept free of equipment, vehicles and supplies not necessary for use on that lease including weeds, rubbish and other waste materials and noxious weeds.</p>
Weld County	Traffic		<p>Applicant provides a statement that traffic reduction methods shall be employed where feasible, such as utilizing fresh water supply through pipelines for completions and the use of centralized storage facilities and/or transmission of crude oil pipeline.</p> <p>Provide road maintenance agreement.</p>
Weld County	Wildlife		<p>Minimize adverse impacts wherever reasonably practicable to:</p> <ol style="list-style-type: none"> 1. Avoid adverse impacts to wildlife resources. 2. Minimize the extent and severity of impacts that cannot be avoided. 3. Mitigate the effects of unavoidable remaining impacts and 4. Take into account cost effectiveness & technical feasibility to minimize impacts to wildlife resources.

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			<p>Consider: Site-specific and species-specific factors of the proposed facility. Consider alternative sites to the extent legally accessible, technologically feasible and economically practicable. Minimize surface disturbance.</p> <p>Plan new transportation networks and facilities to minimize surface disturbance and the number and length of roads.</p> <p>Establish new staging, refueling and chemical storage areas outside of riparian zones and floodplains.</p> <p>Use minimum construction widths for new Rights of Way where pipelines cross riparian areas, streams and critical habitats.</p> <p>Other requirements in Sensitive Wildlife Habitat and Restricted Surface Occupancy Area.</p>