

Land Use

Courthouse Annex • 2045 13th Street • Boulder, Colorado 80302 • Tel: 303.441.3930 • Fax: 303.441.4856 Mailing Address: P.O. Box 471 • Boulder, Colorado 80306 • www.bouldercounty.org

BOULDER COUNTY PLANNING COMMISSION AGENDA ITEM #6

October 19, 2016 – 1:30 P.M. Commissioners Hearing Room, Third Floor Boulder County Courthouse, 1325 Pearl Street

PUBLIC HEARING

<u>Docket DC-15-0003: Proposed Boulder County Land Use Code Amendments to Article 4 and Article 18 regarding firing ranges</u>

STAFF PLANNERS: Dale Case, Land Use Director and Amy Oeth, Planner II

BACKGROUND:

On June 9, 2015, the Board of County Commissioners authorized Land Use staff to pursue text amendments to the Boulder County Land Use Code specific to firing ranges. The present regulations do not offer sufficient protections to health and safety and thus, the county land use staff proposes the attached regulatory amendments.

An ongoing collaborative effort that has been taking place for several years, entitled the Northern Front Range Recreational Sport Shooting Management Partnership, is working on addressing issues around dispersed shooting in the mountains along the Front Range. The stated purpose of the collaborative effort is:

To develop a landscape-level, multi-jurisdictional strategy to provide safe, responsible and accessible recreational sport shooting opportunities while addressing conflicts near residential areas and with other recreation users across the northern Colorado Front Range.

The County's partners in this effort are U.S. Forest Service, Arapaho & Roosevelt National Forests and Pawnee National Grassland, Colorado Parks & Wildlife- Northeast Region, Clear Creek County, Gilpin County, and Larimer County.

The County recognizes the potential impacts to residents and recreational users in areas near proposed ranges. However, the County is also deeply concerned with the impacts of dispersed shooting on safety and the general ability of members of the public to enjoy the outdoors. Dedicated locations with proper safety and noise requirements will better protect values and allow the Forest Service to reduce the areas available for dispersed shooting.

In order to provide shooting opportunities as identified above, each of the involved partner counties agreed to present at least one option for a shooting or firing range. Boulder County has not yet decided on any particular site, although there are five on Forest Service land which are under preliminary consideration. The proposed regulatory amendment is to address the unique issues a

shooting range use presents from a land use perspective. The proposed regulations would permit a shooting range by Special Review in Light Industrial, General Industrial, Forestry, and Agricultural Zoning Districts. The proposed regulatory amendment is to add a framework to review individual applications to address impacts. The current docket is not to review the specifics of any one site; any future application to the County related to a specific site would need to come through the process as adopted by the Boulder County Commissioners.

<u>ATTACHMENT</u>

Referrals and public comments received in response to the proposed amendments

SUMMARY OF PROPOSED CHANGES

Staff is proposing a new use in the Land Use code which will include updates to the following sections:

- Article 18 Definitions
- Article 4-510 Recreational Uses new use A. Firing Range, Outdoor
- Article 4-602 Special Provisions

PROPOSED TEXT CHANGES

Article 18 Definitions - new definitions

18-195A: Shotfall Zones: The area of a shotgun firing range where spent shotgun shot falls to the earth and where development, other than trap or skeet houses or the equivalent facilities for other types of shotgun events, and human occupancy, other than operators of the trap, skeet or equivalent facilities, is prohibited during shooting.

18-207A: Surface Danger Zone: The area, determined by an applicant's Professional Engineer, that may reasonably expect projectile impact. The zone spans the area that could receive projectile impact resulting from direct fire, including misdirected and accidental discharges, and ricochets from any firearm. The boundaries of the zone (i.e., the length of the range and the width of the firing point or points) accommodate the ballistics of the highest powered firearms, and the range of ammunition that may be used in the permitted firing activities. Spatial requirements may be reduced or expanded in consideration of natural topographic features or manmade improvements, including but not limited to backstop and side berms, bullet traps, ricochet catchers, and overhead or ground safety baffles which will provide sufficient safety measures to protect adjacent properties.

Article 4-510 Recreation Uses – new use definition

A. Firing Range, Outdoor

- 1. Definition: A facility inclusive of its component shooting ranges, Surface Danger Zone or Shotfall Zones, parking areas, all structures for classrooms, administrative offices, ammunition storage areas and other associated improvements, for which the primary use is to provide a place for the discharge of various types of firearms. The definition excludes hunting and shooting activity occurring outside of identified and approved shooting ranges, and occasional target practice by individuals on property owned or leased by the individuals.
- 2. Districts Permitted: By Special Review in F, A, GI, LI,
- 3. Parking Requirements: to be determined through review
- 4. Loading requirements: none
- 5. Additional Provisions:

- a. Shooting and target area setbacks
 - (i) In the direction of fire and potential shotfall zone, at least the distance of travel of the largest caliber weapon to be fired. This distance can be reduced based on an engineered study and proper mitigation which reduces the Surface Danger Zone, but except where noted below shall not be closer than 1,320 feet from residential structures (whether permanent or seasonal), lodging or other occupiable or occupied structures not on the subject property, a County platted subdivision, County townsites, recreational trails, open space areas where off-trail use is allowed, designated campgrounds whether public or private, and/or any other potential hazards as identified through special use review. This setback may be reduced with a signed agreement with property owners within 1,320 feet. In all other directions, the boundary of any outdoor shooting area shall be no closer than 400 feet from residential structures (whether permanent or seasonal), lodging or other occupiable or occupied structures not on the subject property, a County platted subdivision, County townsites, recreational trails, open space areas where off-trail use is allowed, designated campgrounds whether public or private, and/or any other potential hazards as identified through special use review. This distance may be increased based on range design and noise studies during the review process.
 - (ii) Default zoning district setbacks are applicable to office, restrooms, classroom space, or other related range areas where weapons are not being fired.

4-602 Special Provisions - (new criteria/development standards)

A. Special Review for Firing Range, outdoor use

1. The following standards shall apply to the development of proposed outdoor firing ranges upon application for a special use permit. The County may vary from these standards where the applicant has demonstrated and a County-approved engineer has verified that the proposed facility includes alternative designs and features, either natural or manmade, that will otherwise mitigate the potential adverse impacts to the health, safety and welfare of owners or users of neighboring properties and the general public. County may also impose stricter standards based on range design, environmental resources and other site specific factors.

a. Range Design

- (i) Pistol and Rifle Firing Ranges. Pistol and rifle firing range design shall include sufficient land area under control of the applicant for the surface danger zone (direct fire zone, safety zones, and ricochet zones) to accommodate the ballistics of the highest powered firearms and ammunition to be used on the range. Such geographic areas shall be based on industry-accepted range design guidelines, standards, and best practices. Such spatial requirements may be reduced in consideration of natural topographic features or manmade improvements, including but not limited to, backstop and side berms, bullet traps, ricochet catchers, and overhead or ground safety baffles which will provide sufficient safety measures to protect persons or adjacent properties. The range design and operation will impact the setbacks through defining the Surface Danger Zone.
- (ii) Shotgun Ranges. Trap ranges shall have a shotfall zone on property under control of the applicant, as established by a line which extends 50 yards to the right and 50

- yards to the left of, and perpendicular to, the centerline of the trap house. From each end of said line, boundary lines having interior angles of 130 degrees shall extend down range for 300 yards. Skeet ranges shall have shotfall zones on property under control of the applicant which are a complete semi-circle with its center point located at the center point of a defined station and a radius of the semi-circle being 300 yards. Shotfall zones for trap live bird simulators, sporting clays, or other shotgun firing ranges shall be determined on a case-by-case basis.
- b. Security. The entire perimeter of Firing Range shall be fenced and signed to reduce the potential for trespass onto the property. In some areas topography or natural barriers may make fence placement unnecessary. In addition, warning signs identifying the range shall be posted around the perimeter of the parcel or parcels on which the shooting range is located such that each sign is visible and legible from the next (generally 200 yards but more frequently placed, depending on topography and vegetation). Fencing where wildlife is a concern should be designed and installed to be wildlife safe while maintaining all measures to secure a firing range and reduce potential for trespass on the property.
- c. Parking. At a minimum, there shall be 1.5 parking places for each firing position.
- d. Noise
 - (i) All firing line locations shall be located and maintained such that the sound levels generated by the discharge of firearms on the range do not exceed a 65 dB peak impulse response at existing residential structures (whether permanent or seasonal), lodging or other occupiable or occupied structures not on the subject property. The burden of proof that the proposed range will meet this standard shall rest with the applicant. All noise studies shall be performed by a professional engineer registered in the State of Colorado or other equally qualified individual.
- e. Range Orientation. All firing lines should be aimed at target lines to the northeast, north or northwest unless there is sufficient screening, natural or manmade, to eliminate the effects of glare from the sun.
- f. All backstops shall have sufficient depth of sand or other similar soft earthen material that is free of rocks, stones and other hard objects that may result in ammunition ricochets. All manmade berms shall be vegetated to reduce the potential for erosion. A manmade, mechanical backstop may be substituted upon approval. All backstops and berms shall be maintained to perform their intended functions.
- g. Firing ranges shall be developed such that there are no traveled roadways, trails, streams, ponds, lakes, or other watercourses or wetlands located within the Surface Danger Zone or within any Shotfall Zone.
- h. The developer/operator of the firing range facility shall provide to the Land Use Department at the time of application for the building permit final inspection a certification prepared by a Colorado registered engineer that the firing range facility has an environmental stewardship plan. The environmental stewardship plan may include semi-annual soil and water sampling, regular liming of the soil to prevent lead migration, reclamation and recycling of expelled ammunition and lead, and must comply with the Best Management Practices, specifically relating to lead management, as specified by the Environmental Protection Agency's (EPA's) most current edition of Best Management Practices for Lead at Outdoor Shooting Ranges.
- i. Operational Requirements

- (i) Hours of operation will be limited to the hours between 7:00 a.m. to 7:00 p.m. with the exception of shooting for educational activities which will be allowed until 9 p.m. up to one day per week, unless more restrictive hours are necessary to address impacts to surrounding areas.
- (ii) Alcohol or drugs must not be permitted on site.
- (iii) No tracer rounds or incendiary rounds permitted.
- (iv) Fire Safety and Response Plan must be filed and approved by local fire protection district and Sheriff.
- (v) Safety Plan must be filed and approved with Land Use Department and the Sheriff and range rules posted.
- (vi) At each firing range, there shall be operational large fire extinguisher(s), always immediately available for emergency use, stored at all shooting and target area.Number of extinguishers to be determined during the special use review process.
- (vii) On site emergency communication system required.
- (viii) Through the Special Review process the Board of County Commissioners (BOCC) may require periodic reviews to assure effective monitoring and operation of the range to protect the health and safety of those in the area and to ensure compliance with the special review approval. If at any time the BOCC finds the operation does not meet the design or operational expectations, they may modify existing conditions or impose additional conditions to address concerns including, without limitation, requiring on-site range staff, cameras, or corrective design measures.

i. Enforcement.

- (i) Shooting range noise ordinance violations will be enforced if the following criteria are met:
 - 1. A civil action or criminal penalty shall be sought against an approved range or its owners or operators on the grounds of noise emanating from such range that results from the operation or use of the range only upon a written complaint from a resident of Boulder County.
 - Written complaints must contain the name and address of the complainant, how long the complainant has resided at the address indicated, and the times and dates upon which the alleged excessive noise occurred. Enforceable complaints must meet the criteria of C.R.S. § 25-12-109, as amended.
- (ii) Notwithstanding j.(i) above, any other of the provisions of this section may be enforced under Article 17 of the Code or by any legal or equitable means recognized by the Colorado State Statutes and the Colorado Court Rules, as amended.
- k. Any future expansion that results in additional firing positions, a lengthened daily period of operations or increasing the length of the direct fire zone or the area of the shotfall zone in order to accommodate the use of firearms not identified in the then existing special use permit application would constitute a substantial modification under 4-603 of this Code.

PUBLIC NOTICE AND INVOLVEMENT

The public has been notified of the proposed Land Use Code text amendments through several forums, including:

- Land Use attended and received feedback at the Forest Service and Northern Front Range Recreational Sport Shooting Management Partnership's open houses held in the summer of 2015.
- August 8, 2016 Formal referral sent via email and postal service to applicable County referral agencies.
- August 8, 2016 Docket information including a draft of the text amendments was posted to the DC-15-0003 webpage at: http://www.bouldercounty.org/property/build/pages/lucodeupdatedc150003.aspx
- October 5, 2016 Public notice for the October 19, 2016 Boulder County Planning Commission Hearing was posted in the Daily Camera. Public comment will be taken at this hearing.
- October 7, 2016 The Planning Commission Agenda for Wednesday, October 19, 2016 was sent to the 1,123 email recipients who are subscribers to the Land Boulder Valley Comprehensive Plan, Land Comprehensive Plan or Land Use Code lists.
- October 12, 2016 The staff recommendation for the October 19, 2016 Planning
 Commission meeting including a draft of the revised proposed text amendments was posted
 to the DC-15-0003 webpage at:
 http://www.bouldercounty.org/property/build/pages/lucodeupdatedc150003.aspx

REFERENCES

To develop the language used in this code amendment, staff reviewed the following resources and example codes:

- Blount County, TN Land Use Code
- Cowlitz County, WA Land Use Code
- C.R.S. § 25-12-103 Maximum permissible noise levels
- Cumberland County, NC Land Use Code
- Forsyth County, GA Land Use Code
- Kitsap County, WA Land Use Code and proposed Ordinance Amending Kitsap County Code (KCC) Title 17 and adding a chapter for the Regulation of Shooting Facilities and Ranges (presented 1/20/15)
- Rocha, E. S., Merriam, D., (2013) Practice Shooting Ranges. American Planning Association

 Zoning Practice, Issue Number 12, pages 1-7.
- Weld County, CO Land Use Code

STAFF COMMENTS ON REFERRAL RESPONSES AND PUBLIC COMMENTS:

An initial draft of the proposed text amendments was sent out for referrals and public comment on August 8, 2016. Below is a summary of the comments received, along with discussion of which comments resulted in changes to the proposed text amendment language, which did not, and rationale for those decisions. The attachment contains a complete package of comments from referrals and the public.

Public comments regarding potential locations of firing ranges in Boulder County have been passed on to Garry Sanfacon, the Boulder County representative for the Northern Front Range Recreational Sport Shooting Management Partnership. These comments are included in the attachment since they were received during the referral process for the code amendment.

Referral comments resulting in revisions to the proposed text amendments:

A strike-through format is utilized to denote language that was deleted from the original proposal and an underline format is utilized to indicate where staff made changes or additions.

- Staff made formatting updates and small text edits based on comments received during the referral process.
- Staff received a request to "recognize that site-specific factors may require the County to impose additional restrictions on a firing range."
 - O Staff added "<u>expanded</u>" to the sentence "Spatial requirements may be reduced or <u>expanded</u> in consideration of..." under the definition of Surface Danger Zone in Article 18.
 - O This sentence was added to 4-602.F: <u>The County may also impose stricter standards</u> based on range design, environmental resources and other site specific criteria.
- One commenter suggested adding a limit to type and size of firearms used. Staff confirmed that this is covered under the definition of the Surface Danger Zone in Article 18 in the following sentence: "...The boundaries of the zone (i.e., the length of the range and the width of the firing point or points) accommodate the ballistics of the highest powered firearms, and the range of ammunition that may be used in the permitted firing activities...."
- 4-510.A.1: Per a referral comment from Boulder County Parks and Open Space, staff removed archery under Firing Range, Outdoor definition. Archery will remain under the outdoor recreation category in the Land Use Code.
- 4-510.A.5.a(i): One commenter pointed out that the proposed language only included the setback from the edge of the shotfall zone. The commenter suggested language which staff adjusted based on other comments and staff analysis. The language below was added to this section.
 - ... In all other directions, the boundary of any outdoor shooting area shall be no closer than 400 feet from residential (whether permanent or seasonal), lodging or other occupiable or occupied structures not on the subject property, a County platted subdivision, County townsites, recreational trails, known or identified social trails as identified in the site review process, open space areas where off-trail use is allowed, designated campgrounds whether public or private, and/or any other potential hazards as identified through special use review. This distance may be increased based on range design and noise studies during the review process.
- 4-510.A.5.a(i): One comment raised concern with how this sentence was originally phrased. It is possible that a potentially affected resident may not be an adjoining property owner, depending on the location of the property lines. The language was changed as follows: *This setback may be reduced with a signed agreement with property owners within 1,320 feet with the adjoining property owner.*
- 4-510.A.5.a(ii): Boulder County Parks and Open Space suggested adding "*open space areas* where off-trail use is allowed" to the list of required setbacks and staff accepted the addition.
- 4-602.F.1.b: Staff accepted a suggestion to add the underlined language to the following sentence: "Fencing where wildlife is a concern should be designed and installed to be wildlife safe while maintaining all measures to secure a firing range and reduce potential for trespass on the property."
- 4-602.F.1.d(i): Staff agreed with the suggested underlined insertion: "...All noise studies shall be performed by a professional engineer registered in the State of Colorado or other equally qualified individual." As with other land use processes, it is the applicant's responsibility to prove that the engineer is qualified.
- 4-602.F.1.h: There was a comment asking how this provision would be enforced. The provision reads as follows: "The developer/operator of the firing range facility shall provide to the Land Use Department at the time of application for the building permit final inspection

a certification prepared by a Colorado registered engineer that the firing range facility has an environmental stewardship plan. The environmental stewardship plan may include semi-annual soil and water sampling, regular liming of the soil to prevent lead migration, reclamation and recycling of expelled ammunition and lead, and must comply with the Best Management Practices, specifically relating to lead management, as specified by the Environmental Protection Agency's (EPA's) most current edition of Best Management Practices for Lead at Outdoor Shooting Ranges."

- Staff added language to 4-602.F.1.i(viii) as shown in underlined in the bullet point (and to ensure compliance with the special review approval).
- Additional language is not needed as this would be treated consistently with how the Land Use Department enforces noxious weed management plans, revegetation plans, and construction best practices.
- 4-602.F.1.i: One commenter suggested including language requiring fire extinguishers. Staff slightly modified the suggestion and proposes the following language: "At each firing range, there shall be operational large fire extinguisher(s), always immediately available for emergency use, stored at all shooting and target area. Number of extinguishers to be determined during the site review process." Staff added the second sentence to address the concern that the number of firing extinguishers would need to increase with the size of the shooting range.
 - O 4-602.F.1.i(viii): Based on comments during the referral period, staff made the following underlined changes: "Through the Special Review process the Board of County Commissioners (BOCC) may require periodic reviews to assure effective monitoring and operation of the range to protect the health and safety of those in the area and to ensure compliance with the special review approval. If at any time the BOCC finds the operation does not meet the design or operational expectations, they may modify existing conditions or impose additional conditions to address concerns including, without limitation, requiring on site range staff, cameras, or corrective design measures."
 - One comment suggested adding "environmental stewardship plan" to the end of the first sentence. Staff chose the language above since the site plan in the special review approval would include an environmental stewardship plan.
- 4-602.F.1.j.(i)(A): Staff removed the language summarizing C.R.S. § 25-12-109 per a public comment which pointed out if the statute changed, the code would also have to be updated. Staff edited the text as shown: "Written complaints must contain the name and address of the complainant, how long the complainant has resided at the address indicated, and the times and dates upon which the alleged excessive noise occurred. Enforceable complaints must meet the criteria of Complainants must have established residence within Boulder County on or before January 1, 1985. See C.R.S. § 25-12-109, as amended."
- 4-602.F.1.c: Boulder County Transportation provided the number of parking spaces required.

Referral comments not resulting in revisions to the proposed text amendments:

Underlined language denotes additions requested through the referral period that staff chose not to move forward with for the reasons summarized below. Italicized language is the current proposed language by staff.

4-510.A.1: One commenter suggested subjecting all shooting to the requirements of this ordinance, including occasional shooting. Another commenter asked for more restrictions on shooting on private property. Staff further defined private property but did not extend the requirements, as this may impose an undue burden on individual property owners. The provision now reads: "The definition excludes hunting and shooting activity occurring outside of identified and approved shooting ranges, and target practice by individuals on

- property owned or leased by the individuals where the owner or lessee receive no compensation for the use."
- 4-510.A.1: Under definition of "Firing Range, Outdoor," a commenter suggested adding the following: <u>A shooting "area" is distinguished from a shooting "range" by virtue of the latter having an on-site range manager available during hours of operation. With respect to these regulations, unless otherwise noted, a shooting area is equivalent to a shooting range. Staff chose not to use this recommendation since shooting range and shooting area are treated equally within the code.</u>
- 4-510.A.5.a.ii: Staff received a few comments about increasing the setback distances from fire and shotfall zones. After comparing the distances with other codes and adding the provision allowing the distances to be reduced or increased by range design and geological factors, staff decided to keep the proposed distances.
- 4-510.A.5.a: One commenter suggested adding this additional provision <u>The boundary of any shooting area shall be situated no closer than 1,760 feet (1/3 mile) from (a) any adjacent public or private property subject to conservation easement(s), whether any such easement is <u>publicly or privately held; and/or (b) any county-mapped or otherwise substantive wildlife migration corridor situated on either public or private property.</u> These items are addressed through development review, so additional language is not needed. Setbacks are covered under Article 4-510.A.1.</u>
- 4-602.F.1.a(i): After consideration by staff, the following suggested language in strike-through was not added to this provision: "Such geographic areas shall be based on industry-accepted range design guidelines, standards, and best practices, including but not limited to those established by the U.S. Department of Defense, Department of Energy, and other federal agencies. Staff decided that it was possible these resources might not be available over time and other private resources exist as well. It is up to the applicant to show that their range design meets these standards.
- 4-602.F.1.a(ii): One commenter expressed concern about the distance included in this provision: "Shotgun Ranges. Trap ranges shall have a shotfall zone on property under control of the applicant, as established by a line which extends 50 yards to the right and 50 yards to the left of, and perpendicular to, the centerline of the trap house. From each end of said line, boundary lines having interior angles of 130 degrees shall extend down range for 300 yards..." Based on the codes of other jurisdictions, staff is comfortable with 300 yards as a minimum distance, since this will also be reviewed as part of the special use review process.
- 4-602.F.1.d(i): Some of the referral responses said that 65dB was too high for a peak impulse response to firearm discharge and requested 50dB with a lower threshold at night. Staff compared this level to that in other codes, tested decibel readings at various distances, and visited firing ranges. Noise concerns will be evaluated during the special review process.
- 4-602.F.1.d(i): One commenter suggested adding the underlined portion to this section of the code in regard to noise studies: <u>Prior to construction</u>, the burden of proof that the proposed range will meet this standard shall rest with the applicant. The additional language is not necessary as this is already part of the review process and checking the as-built.
- 4-602.F.1.d(i): One comment suggested adding the following sentence to the end of this provision: "Acoustical tests must be performed on any proposed site prior to development." Staff decided that the previous sentence regarding noise studies covered this.
- 4-602.F.1.d: One commenter suggested adding the following provision to this section: "Post construction and during hours of operation, a firing range, whether outdoor or indoor, shall have at least one active dB sound level monitor placed appropriately at or near firing positions, whose sound levels are recorded and immediately available to all shooters on-site as well as available publicly. All firing ranges shall post prominently visible and legible signage explaining decibel threshold levels and time durations beyond which harm, whether temporary or permanent, to unprotected human hearing occurs." Staff chose not to move forward with this suggestion for the following reasons: sound levels at firing start positions

- measure at about 140-145 dB(A) consistently; most firing ranges require hearing protection; staff could not find an example of type of set-up, and decibel readers at this location may lead a user to think that hearing protection is optional.
- 4-602.F.1.d: One commenter suggested this additional provision: <u>Any outdoor firing range whose shooting area is situated within one mile of any school, lodging or other occupiable or occupied structures not on the subject property (including any religious facility or retreat), residence (permanent or seasonal), public park or open space, property under conservation easement, campsites (either private or public, whether dispersed or officially maintained), or recreational trails (either private or public), shall operate on no more than three of the days between Monday and Friday (inclusive), and shall operate only every other weekend otherwise, subject to the exemption that no earlier than one year after start of operation, a firing range for which in the previous year there have been no verifiable noise complaints or violations of the property line peak impulse response limit of Section F-4-a herein shall be permitted to operate during any day of the week. Staff chose not to include this as there are already locational provisions in 4-510.A.5, the requirements would be too difficult to enforce, and 4-602.F.1.i(viii) allows the County to modify conditions if there are issues.</u>
- 4-602.F.1.g: Staff chose not to include the following suggested underlined addition as appropriate setbacks will be reviewed during the special use review. "Firing ranges shall be developed such that there are no traveled roadways, trails, streams, ponds, lakes, or other watercourses or wetlands located within the Surface Danger Zone or within any Shotfall Zone or within 1320 feet in any other direction.
- 4-602.F.1.h: There was a suggestion to add the underlined sentence to the end of this provision: The developer/operator of the firing range facility shall provide to the Land Use Department at the time of application for the building permit final inspection a certification prepared by a Colorado registered engineer that the firing range facility has an environmental stewardship plan...Prior to development of the firing range, the developer/operator shall remediate any existing environmental hazards or pollution, including lead and other wastes or conditions, posing risks to human health or the environment. Staff chose not to include this because it is too broad, and staff would review these items and set conditions if needed during special use review.
- 4-602.F.1.i(viii): One comment suggested having on-site supervisors present during all hours of operation. Staff chose not to include this as an initial requirement as it is too burdensome.
- 4-602.F.1.j(i): There were a few comments on this section. Staff chose not to include a third provision which was suggested as follows: *The County shall maintain records of all noise and/or other complaints concerning any shooting range or area, regardless of whether the County has an enforcement right under C.R.S. § 25-12-109, as amended. Such records shall be available to the public as long as the shooting range or area remains in operation, or remains temporarily closed, and shall be kept for no less than 10 years after permanent closure.* Staff chose not to include this language, The Boulder County Sheriff's Department logs noise complaints, and Land Use staff records land use complaints that are enforceable under C.R.S. § 25-12-109.

TEXT AMENDMENT CRITERIA ANALYSIS

Article 16-100.B. contains the criteria for amending the text of the Land use Code.

Staff finds that these criteria are met in the context of this Docket. The existing text is in need of amendment because the present regulations do not offer enough protections to health and safety. A collaborative effort to address issues around dispersed shooting in the mountains along the Front Range has been ongoing for several years. The County is concerned with the impacts of dispersed shooting on the safety and the general ability of members of the public to enjoy the outdoors, and recognizes the potential impacts to residents and recreational users in any area near a proposed range. Dedicated locations with proper safety and noise requirements will better protect values and allow the

Forest Service to reduce the areas available for dispersed shooting. The amendments are also not contrary to the intent or purpose of the Code and are in accordance with the Boulder County Comprehensive Plan.

RECOMMENDATION

The Land Use staff finds that the proposal can meet all of the applicable criteria for a Land Use Code Text Amendment, as noted above. Therefore, Land Use staff recommends that the Boulder County Planning Commissioners approve Docket DC-15-0003: Proposed Boulder County Land Use Code Amendments to Article 4 and Article 18 regarding firing ranges.

 From:
 Bernard Cyr

 To:
 Case, Dale

 Cc:
 Dianna Osborn

Subject: Questions and comments regarding Docket DC-15-0003

Date: Wednesday, August 24, 2016 2:54:47 PM

To: Dale Case

From: Bernard Cyr, bcyrious@gmail.com, 14587 N 83rd St, Longmont, CO 80503

Re: Questions and comments regarding *Docket DC-15-0003: Proposed Boulder County Land Use Code Amendments to Article 4 and Article 18 regarding firing ranges*

Dale,

Regarding the "Definition A" of "Article 4-510- I. Firing Range, Outdoor" of *Docket DC-15-0003:*

- 1. What frequency and duration of shooting constitutes "occasional target practice by individuals on property owned or leased by the individuals"?
- 2. Does once per week for 1 to 1 1/2 hours qualify as "occasional target practice"?
- 3. Must an individual who owns or leases the property be present during the shooting?

I strongly believe that once per week for 1 hour or more should define the land usage as a "Firing Range, Outdoor" according to the above cited article and that such land usage should be subject to all the article provisions and requirements for a "Firing Range".

In addition, I believe that <u>all</u> land usage for outdoor shooting, including "occasional target practice", should be subject to the requirements of "Article 4-510- I. Firing Range, Outdoor E. Additional Provisions: 1. Shooting and target area setbacks". Please explain why all shooting should not at least be subject to these safety provisions?

Thank you for your attention to these questions and comments, Bernard Cyr bcyrious@gmail.com

14587 N 83rd St, Longmont, CO 80503

From: Riley, Anita A.
To: Case, Dale
Cc: Thomas, Mike

Subject: RE: Referral packet for Docket DC-15-0003: Proposed Boulder County Land Use Code Amendments to Article 4

and Article 18 regarding firing ranges

Date: Tuesday, August 30, 2016 8:59:11 AM

Attachments: DC-15-0003 Text Amendments Regarding Firing Ranges.doc

Dale.

Attached is the Transportation Department referral response for the above referenced docket. Thanks.

Anita Riley, Senior Planner
Boulder County Transportation Department
PO Box 471, Boulder, CO 80306
(303) 441-4581
aariley@bouldercounty.org

From: Milner, Anna

Sent: Monday, August 08, 2016 3:25 PM

To: Carson Hatcher, Mindy; Flax, Ron; Goodell, Gary; HealthWaterQuality-EnvironmentalBP LU; Hippely, Hannah; James, Brian; Riley, Anita A.; Sanchez, Kimberly; Schroeder, Chad; Swirhun, Lesley; Thomas, Mike; West, Ron; Willits, Amelia; #CAreferral; Wagner, Mike; ranger298@coloradoranger.org; paulc@nederlandco.org; editorsof@aol.com; Sanfacon, Garry; Buckles, Kristina; Lombardi, Alicia **Cc:** Case, Dale

Subject: Referral packet for Docket DC-15-0003: Proposed Boulder County Land Use Code Amendments to Article 4 and Article 18 regarding firing ranges

Please find attached the electronic Referral packet for **Docket DC-15-0003: Proposed Boulder**

County Land Use Code Amendments to Article 4 and Article 18 regarding firing ranges.

Responses should be returned by **August 31, 2016.** (Boulder County internal departments and agencies: Please attach the referral comments in Accela.) Please direct any questions to <u>Dale Case</u>.

Best Regards,

Anna

Anna Milner

Admin. Lead Tech. | Planning Division Boulder County Land Use Dept. | PO Box 471 | Boulder, CO 80306 (720) 564-2638 (Direct) | (303) 441-4856 (Fax)



Transportation Department

2525 13th Street, Suite 203 • Boulder, Colorado 80304 • Tel: 303.441.3900 • Fax: 303.441.4594 Mailing Address: P.O. Box 471 • Boulder, Colorado 80306 • www.bouldercounty.org

August 30, 2016

TO: Dale Case, Director, Land Use Department

FROM: Anita Riley, Senior Planner

SUBJECT: Docket #DC-15-0003: Proposed Boulder County Land Use Code

Amendments to Article 4 and Article 18 regarding firing ranges

The Transportation Department has reviewed the above referenced docket and finds no conflicts. Staff does suggest that a minimum parking requirement of 1.5 spaces per firing position be considered. It appears to be consistent with a number of jurisdictions that recognize this use and is consistent with neighboring Jefferson County.

This concludes our comments at this time.

From: Wobus, Nicole
To: Oeth, Amy

Subject: FW: Ask a Planner - Web inquiry from David Swoboda - Docket DC-15-0003

Date: Thursday, September 01, 2016 8:52:48 AM

-----Original Message-----

From: Ask A Planner [mailto:no-reply@wufoo.com]

Sent: Tuesday, August 30, 2016 12:37 AM

To: #LandUsePlanner

Subject: Ask a Planner - Web inquiry from David Swoboda - Docket DC-15-0003

If your comments are regarding a specific docket, please enter the docket number: Docket DC-15-0003

Name: David Swoboda

Email Address: dfswoboda@aol.com Phone Number: (303) 938-9978

Please enter your question or comment: Docket DC-15-0003: Proposed Boulder County Land Use Code

Amendments to Article 4 and Article 18 regarding firing ranges

Section 4-602.F.4

I question the following:

All noise studies shall be performed by a professional engineer registered in the State of Colorado or other qualified individual.

"other qualified individual" is unacceptably vague and should be deleted. Without identifying what "qualified" means this eliminates any qualification whatsoever.

Public record acknowledgement:

I acknowledge that this submission is considered a public record and will be made available by request under the Colorado Open Records Act.



Land Use

Courthouse Annex • 2045 13th Street • Boulder, Colorado 80302 • Tel: 303.441.3930 • Fax: 303.441.4856 Malling Address: P.O. Box 471 • Boulder, Colorado 80306 • www.bouldercounty.org

<u>Docket DC-15-0003: Proposed Boulder County Land Use</u> <u>Code Amendments to Article 4 and Article 18 regarding firing ranges</u>

Request: Land Use Code Text amendments drafting a use definition for firing or shooting range and related definition and process changes. (Staff planners: Amy Oeth and Dale Case)

Dear Stakeholder/Interested Party,

On June 9, 2015, the Board of County Commissioners authorized Land Use staff to pursue text amendments to the Boulder County Land Use Code specific to firing ranges. This is the initial referral draft of the proposed regulations. We value your comments and ideas for improvement.

Why: The present regulations do not offer enough protections to health and safety and thus, the County has drafted the attached regulatory amendments.

A collaborative effort to address issues around dispersed shooting in the mountains along the Front Range has been ongoing for several years. The stated purpose of the collaborative effort is:

To develop a landscape-level, multi-jurisdictional strategy to provide safe, responsible and

To develop a landscape-level, multi-jurisdictional strategy to provide safe, responsible and accessible recreational sport shooting opportunities while addressing conflicts near residential areas and with other recreation users across the northern Colorado Front Pange.

The County's partners in this effort are U.S. Forest Service, Arapaho & Poosevelt National Forests and Pawnee National Grassland, Colorado Parks & Wildlife, Northeast Region, Boulder County, Clear Creek County, Gilpin County, and Larimer County.

The County recognizes the potential impacts to residents and recreational users in any area near a proposed range. However, the County is also deeply concerned with the impacts of dispersed shooting on the safety and the general ability of members of the public to enjoy the outdoors. Dedicated locations with proper safety and noise requirements would better protect values and allow the Forest Service to reduce the areas available for dispersed shooting.

In order to provide shooting opportunities as identified above, each of the involved partner counties agree to present at least one option for a shooting or firing range.

Boulder County has not yet decided on any particular site, although there are five on Forest Service Land which are under preliminary consideration. This regulatory amendment is to address the unique issues a shooting range use presents from a land use perspective. The current draft regulations would permit a shooting range by right in Transitional, Business, Commercial, Light Industrial, and General Industrial Zoning Districts. And it could be allowed through Special Review in Forestry, Agricultural and Mountain Institutional Zoning Districts.

This initial referral draft is to garner feedback and make necessary changes to the draft before it starts the public hearing process.

A draft of the proposed text amendments is attached to this letter for your review. You may also view the proposed draft text amendments and future revisions in our office or online at: http://www.bouldercounty.org/property/build/pages/lucodeupdatedc150003.aspx

The docket review process for the proposed amendments will include a public hearing before the Boulder County Planning Commission, tentatively scheduled for September 21, 2016, and a public hearing before the Boulder County Board of County Commissioners, to be scheduled within a month or two after Planning Commission. Public comments will be taken at both hearings. Confirmation of hearing dates and times will be published online at the link above and in local newspapers.

The Land Use staff and County Commissioners value comments from individuals and referral agencies. Please check the appropriate response below or send a letter or email with your comments. All comments will be made part of the public record. If you have any questions regarding this docket, please contact us at (303) 441-3930. <a href="mailto:docket.nlease.contact.

Please return responses to the above address by August 31, 2016. Late responses will be reviewed as the process permits.

We have revie	wed the pro	posal and have no	conflicts.			
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Agency or Address	[140	LINDEN	AVE	BOULDER	(0	80304

From: <u>Douglas McKenna</u>
To: <u>Case, Dale</u>

Subject: Substantive Comments on Docket DC-15-0003 (draft "Firing Range Regulations")

Date: Wednesday, August 31, 2016 9:50:05 AM

Dale Case Boulder County Land Use Dept. 2045 13th Street Boulder, Colorado 80302

August 31, 2016

by Hand Delivery and eMail

Re: Proposed Outdoor Shooting Area/Range Regulations

Dear Mr. Case,

I have reviewed the draft regulations for shooting ranges/areas, and would like to provide the following corrections, suggestions, and comments. I have submitted these in writing to your office, and sent this by email, so that you may benefit from any cutting and pasting using the latter email text.

To synopsize, the primary issues that concern me are that: (1) there is nothing concerning setbacks in directions other than the direction of shooting; (2) there is no specal setback protection for adjacent properties that have been protected by conservation easement, nor (3) for substantive wildlife migration corridors already mapped by the county. Also, (4) why are private trail systems or private campsites not protected as much as public ones? (Yes, such private trails/campsites exist). (5) All outdoor firing ranges within one mile earshot of others should be permitted to operate only half the time to give noise respite to others, unless the firing range can demonstrate that there have been no violations of the boundary noise limits in the past year. Operating full-time should be a privilege earned by being quiet, not a right to harm others on a year-round daily basis.

The language I've created below addresses some of these concerns.

There should also be requirements for unattended outdoor shooting areas, as opposed to attended outdoor shooting ranges.

In the following, I've created inline edits, typos, or additions. The original text of your draft is in a first pair of []s, and my changed text is inside the second pair. General comments about an adjoining text change are in $\{\{ ... \}\}$ s. Search for "][" in the email version of these notes to find the edits and additional text.

Article 4-510

I. Firing Range, Outdoor

A. Definition:

A facility, including its component shooting ranges, Surface Danger Zone [][]or shotfall zones, [][]parking areas, all structures for classrooms, administrative offices, ammunition [][or other]storage areas and other associated improvements, for which the primary use is to provide a place for the discharge of various types of firearms or [][for]the practice of archery. [The][This] definition excludes hunting and shooting activity occurring outside of identified and approved shooting ranges, and occasional target practice by individuals on property owned or leased by the [those]individuals. [][A shooting "area" is distinguished from a shooting "range" by virtue of the latter having an on-site range manager available during hours of operation. With respect to these regulations, unless otherwise noted, a shooting area is equivalent to a shooting range.]

. . .

E. Additional Provisions:

- 1. Shooting and target area setbacks
- a. In the direction of fire and potential shotfall zone, at least the distance of travel of the largest caliber weapon to be fired. This distance can be reduced based on an engineered study and proper mitigation which reduces the Surface Danger Zone, but in no case shall it be closer than 1,320 feet from residential[][(whether permanent or seasonal)], lodging or other [occupied][occupiable or occupied] structures not on the subject property, a County platted subdivision, recreational trails[][whether public or private], [and][and/or] campgrounds[][whether public or private]. This setback may be reduced with a signed agreement with the adjoining property owner.
- {{This setback language is ONLY with respect to one side of the shooting range, the side farthest from the shooters (downrange or shotfall zone). The language provides no setbacks whatsoever for the other (two, three, or more) sides. There is also nothing distinguishing indoor from outdoor ranges, which might have differing setbacks.}}
- [][In all other directions, the boundary of any outdoor shooting area shall in no case be closer than 1,000 feet from residential (whether permanent or seasonal), lodging or other occupiable or occupied structures not on the subject property, a County platted subdivision, recreational trails whether public or private, and/or campgrounds whether public or private.]
- [][c. The boundary of any shooting area shall be situated no closer than 1760 feet (1/3 mile) from (a) any adjacent public or private property subject to conservation easement(s), whether any such easement is publicly or privately held; and/or (b) any county-mapped or otherwise substantive wildlife migration corridor situated on either public or private property.]

4-602

- F-2. Security. The entire perimeter of Firing Range shall be fenced and signed to reduce the potential for trespass [on to][onto] the property. In some areas topography or natural barriers may make fence placement unnecessary. In addition, warning signs identifying the range shall be posted around the perimeter of the parcel or parcels on which the shooting range is located such that each sign is visible and legible from the next (generally 200 yards but more frequently placed, depending on topography and vegetation). Fencing where wildlife is a concern should be designed and installed to be wildlife safe[][.]
- F-4. Noise. [][a.]All firing line locations shall be located and maintained such that the sound levels generated by the discharge of firearms on the range do not exceed a 65 dB peak impulse response at [the][any range] property line. [The][Prior to construction, the] burden of proof that the proposed range will meet this standard shall rest with the applicant. All noise studies shall be performed by a professional engineer registered in the State of Colorado or other qualified individual.
- [][b. Post construction and during hours of operation, a firing range, whether outdoor or indoor, shall have at least one active dB sound level monitor placed appropriately at or near firing positions, whose sound levels are recorded and immediately available to all shooters on-site as well as available publicly. All firing ranges shall post prominently visible and legible signage explaining decibel threshold levels and time durations beyond which harm, whether temporary or permanent, to unprotected human hearing occurs.]
- [][c. Any outdoor firing range whose shooting area is situated within one mile of any school, lodging or other occupiable or occupied structures not on the subject property (including any religious facility or retreat), residence (permanent or seasonal), public park or open space, property under conservation easement, campsites (either private or public, whether dispersed or officially maintained), or recreational trails (either private or public), shall operate on no more than three of the days between Monday and Friday (inclusive), and shall operate only every other weekend otherwise, subject to the exemption that no earlier than one year after start of operation, a firing range for which in the previous year there have been no verifiable noise complaints or violations of the property line peak impulse response limit of Section F-4-a herein shall be permitted to operate during any day of the week.]
- F-7. Firing ranges shall be developed such that there are no traveled roadways, trails, streams, ponds, lakes, or other watercourses or wetlands located [][either]within the Surface Danger Zone or within any Shotfall Zone[.][, or within 1320 feet in any other direction.]

F-8. The developer/operator of the firing range facility shall provide to the Land Use Department at the time of application for the building permit final inspection a certification prepared by a Colorado registered engineer that the firing range facility has an environmental stewardship plan. The environmental stewardship plan may include semi-annual soil and water sampling, regular liming of the soil to prevent lead migration, reclamation and recycling of expelled ammunition and lead, and must complywith the Best Management Practices, specifically relating to lead management, as specified by the Environmental Protection Agency's (EPA's) most current edition of Best Management Practices for Lead at Outdoor Shooting Ranges.

{{Who is in charge of enforcing this plan? How often are inspections or testing of the facility, and by whom? Is the shooting range operator required to affirm that the plan is being kept to? How often should a shooting range owner be required to demonstrate that the plan is being adhered to, and that mitigation is being accomplished? Self-enforcement won't work!}}

F-9. Operational requirements

d. Fire Safety and Response Plan [file with][filed with and approved by] local fire protection district and Sheriff.

[][h. At each shooting area or range, there shall be no less than _____ operational large fire extingisher(s), always immediately available for emergency use, stored at both the near shooting and the far target area.]

{{The number of fire extinguishers should probably rise with the size of the shooting range, or number of simultaneous shooters it can accomodate.}}

F-10. Enforcement

a.ii. ... C.R.S. § 25-12-[109][109, as amended].

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[][c. The County shall maintain records of all noise and/or other complaints concerning any shooting range or area, regardless of whether the County has an enforcement right under C.R.S. § 25-12-109, as amended, or not. Such records shall be available to the public as long as the shooting range or area remains in operation, or remains temporarily closed, and shall be kept for no less than 10 years after permanent closure.]{{Suppose an operator violates all sorts of regulations and closes, only to open a new shooting range elsewhere. The public needs to know about past violations!}}

Hope this helps. Thanks.

/s/

Doug McKenna, personally and Doug McKenna, President Silver Spruce Ranch, Inc.

1140 Linden Avenue Boulder CO 80304

Email: doug@mathemaesthetics.com

Dale Case Boulder County Land Use Dept. 2045 13th Street Boulder, Colorado 80302

August 31, 2016

by Hand Delivery and eMail

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4-602

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Hope this helps. Thanks.

Doug McKenna, personally and

Doug McKenna, President Silver Spruce Ranch, Inc.

1140 Linden Avenue Boulder CO 80304

Email: doug@mathemaesthetics.com

From: West, Ron

To: Oeth, Amy; Case, Dale

Subject: DC-15-0003

Date: Wednesday, August 31, 2016 3:25:02 PM

Attachments: DC-15-0003 firing ranges.pdf

Please see attached (minimal) referral.



Parks and Open Space

5201 St. Vrain Road • Longmont, Colorado 80503 303.678.6200 • Fax: 303.678.6177 • www.bouldercounty.org

TO: Amy Oeth and Dale Case, Land Use Department

FROM: Ron West, Natural Resource Planner

DATE: August 31, 2016

SUBJECT: Docket DC-15-0003, Code Amendment Regarding Firing Ranges

Staff has reviewed the submitted materials, and has limited comment, mostly editorial. Overall, the changes seem reasonable.

Article 18, Shotfall Zones – If sub-clauses are removed, the sentence reads, "The areas of a shotgun firing range where spent shotgun shot falls to the earth and where development...and human occupancy...is prohibited during active shooting." This needs clarification. Development and occupancy are only prohibited when shooting is "active?"

Article 18, Surface Danger Zone – Should read, "...accommodate the ballistics of **the** highest...."

Article 4-150 I.A – No caps on Surface Danger Zone? And, shouldn't it read, "...surface danger zone and [not or] shotfall zones..."? According to the LU Code version that is online, this should be 4-150 J, not I. I is already Ski Area.

Article 4-150 I.E.1.a -- Consider adding to the list of uses needing to be 1320 feet distant: "open space areas where off-trail use is allowed."

Article 4-602 F.9.b – Should read, "Alcohol or drugs must not **be** permitted."

Article 4-602 F.9.d – Change "file" to "must be filed."

Archery – As written, would this preclude archery "ranges" (without any kind of structure – just a series of targets in the woods) **if** an arrow could fall outside of the boundaries of the parcel? Or, if one of the listed uses is within 1320 feet? Or,? The archery aspect throughout the draft is cursory and vague.

From: <u>David Pinkow</u>
To: <u>Case, Dale</u>

Subject: Re: Code amendments re firing ranges

Date: Wednesday, August 31, 2016 5:33:47 PM

Dale,

Thanks very much.

Dave

On Wed, Aug 31, 2016 at 5:01 PM, Case, Dale < dcase@bouldercounty.org> wrote:

Yes. The comments are all accepted.

> On Aug 31, 2016, at 4:51 PM, David Pinkow < pinkow@gmail.com> wrote:

>

> Dale,

>

> Attached is a copy of my comments on the proposed Boulder County Land Use Code Amendments regarding firing ranges. I attempted to hand deliver a hard copy of my comments to your office, but found the office had closed at 11 AM owing to a staff function. Consequently, I slid the hard copy under the door--I hope they are delivered to you.

>

> The reason for a hard copy is that I appended a CD recording of firearms shooting at the old Allenspark Dumpsite that I thought would be enlightening for you to hear.

>

> I hope that you will accept my comments as having been submitted by the deadline of August 31, 2016.

>

> Thank you very much.

_

> Sincerely,

>

> David Pinkow

> <D Pinkow to BOCO Land Use 16-8-31 re firing ranges.pdf>

2815 Heidelberg Dr. Boulder, CO 80305 August 31, 2016

Mr. Dale Case Boulder County Land Use 2045 13th St. Boulder, CO 80302

Dear Director Case,

Thank you for the opportunity to comment on the proposed Boulder County Land Use Code Amendments regarding firing ranges.

I appreciate the thoughtful manner in which Boulder County has approached writing these amendments, which draw on concepts, terminology and standards adopted by recognized authorities experienced in shooting-range design. That Boulder County has recognized the importance of defining such things as surface-danger, shot-fall and ricochet zones is gratifying.

It is heartening to note several areas in the proposed amendments where evaluation and standards are to be adjudicated by a qualified professional engineer. However, the requirements are weakened in Article 4-602 F, 4 with the reference to an "other qualified individual." Lacking the mention of any particular qualification, the impact of this statement is considerably weakened. I would like to suggest strengthening the statement at least by stipulating "other <u>equally</u> qualified individual."

Regarding the areas to be used for skeet shooting, BOCO should be aware that the range of 00 shot is over 2,500 feet at altitudes being considered for shooting ranges. A shotfall zone of 300 yards is inadequate. Altitude makes a significant difference in the distance a projectile will travel. Effective altitude is measured according to "density altitude," which is greatly affected by temperature. On a hot day, density altitude can exceed 12,000 feet at a true altitude of 8,000 feet. Since the range of shot is determined in part by its size, BOCO should consider defining the size of allowable shot and reconsider the size of its proposed shotfall zones.

Both safety and noise are affected by the size and type of firearms utilized. I would urge BOCO to establish limits on both the caliber and capability of allowable firearms. Personally, I cannot ascribe any redeeming value to the firing a 50-caliber automatic machine gun for recreational purposes—something that was not uncommon at the old Allenspark Dump Site, when it was utilized as a location for dispersed recreational shooting.

Use of the term "occupied" structures is ambiguous. The US Forest Service restricts shooting within 150 yards of a "residence or building." I think those are better terms.

Range orientation. Restriction of range orientation to "north only" is unnecessary. I have visited the Green Mill Sportsman's Club in Erie, CO, where the orientation of all ranges is to the south. The ranges at that club are well constructed and very popular.

Regarding noise propagation and attenuation: It is of the utmost importance that sophisticated sound tests be performed at any site prior to its serious consideration as a shooting range. Topography of the area is an important consideration—for both safety and projection of unwanted noise. Simply taking a decibel reading a property boundary is not adequate. For example, owing to obstructions, rises and dips in terrain or other anomalies, noise may project at a much greater intensity at an elevation other than ground level. As a result of their topical features, some locals may inherently develop a greater resonance or echo than others.

I am submitting, as part of these comments, a recording of firearms discharged at the old Allenspark Dumpsite along with a map depicting locations of recording and shooting activity. No artificial enhancement or addition of resonance was made to the recordings.

The recording may also serve as a comparison to the projection of noise at the Green Mill Sportsman's Club in Erie, CO, where the surrounding terrain is basically flat, and there are twenty-foot berms surrounding each of the individual shooting venues. I understand that representatives of Boulder County have visited that site.

I am fully aware of Colorado Revised Statute 25-12-109, which limits the ability of individuals and municipalities to challenge or restrict the amount of noise emanating from qualifying sport shooting ranges. Once a shooting range has been approved for a particular locale, there will be little flexibility in regulation of the noise emanating from that venue.

This is to inform you that I fully support the comments being submitted on behalf the Glacier View Neighbors' Association by attorney John Putnam of the firm Kaplan, Kirsch and Rockwell.

Thank you again for inviting comments on the proposed land use changes.

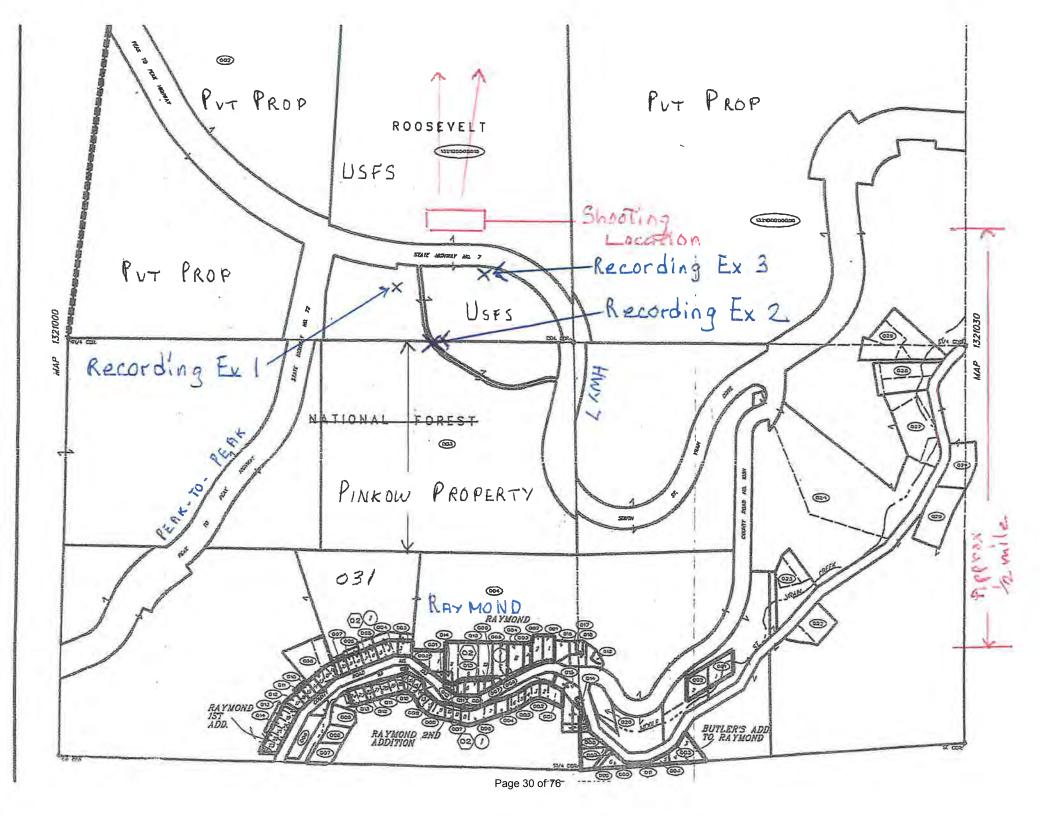
Sincerely,

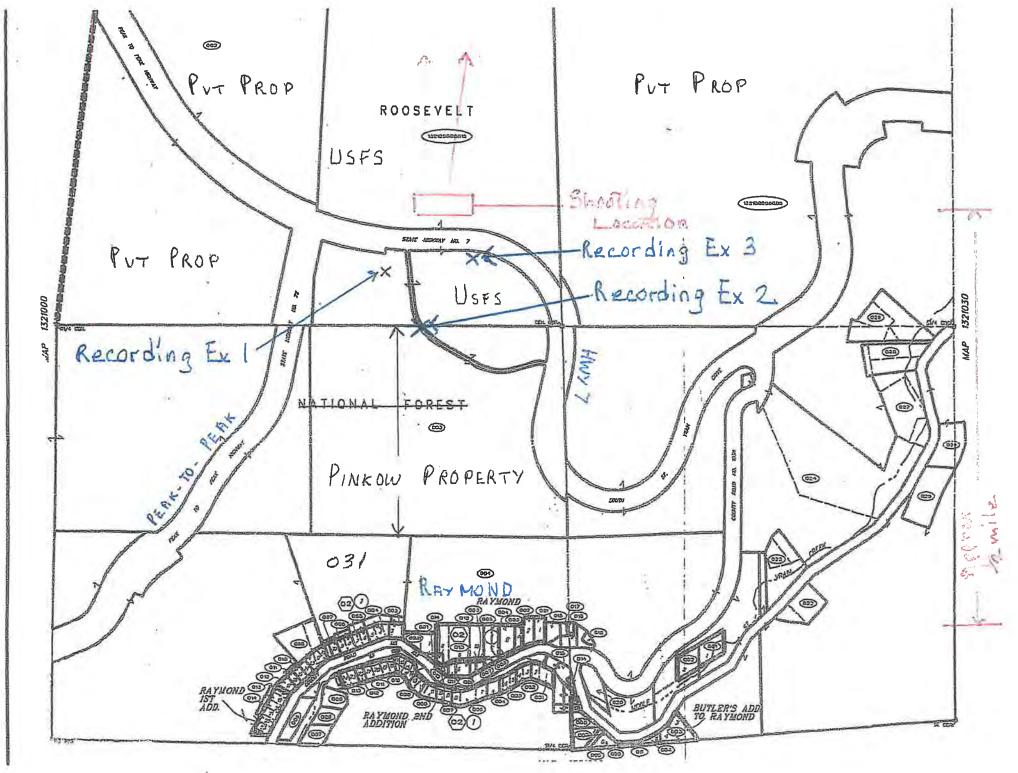
David J. Pinkow,

Daily Printer

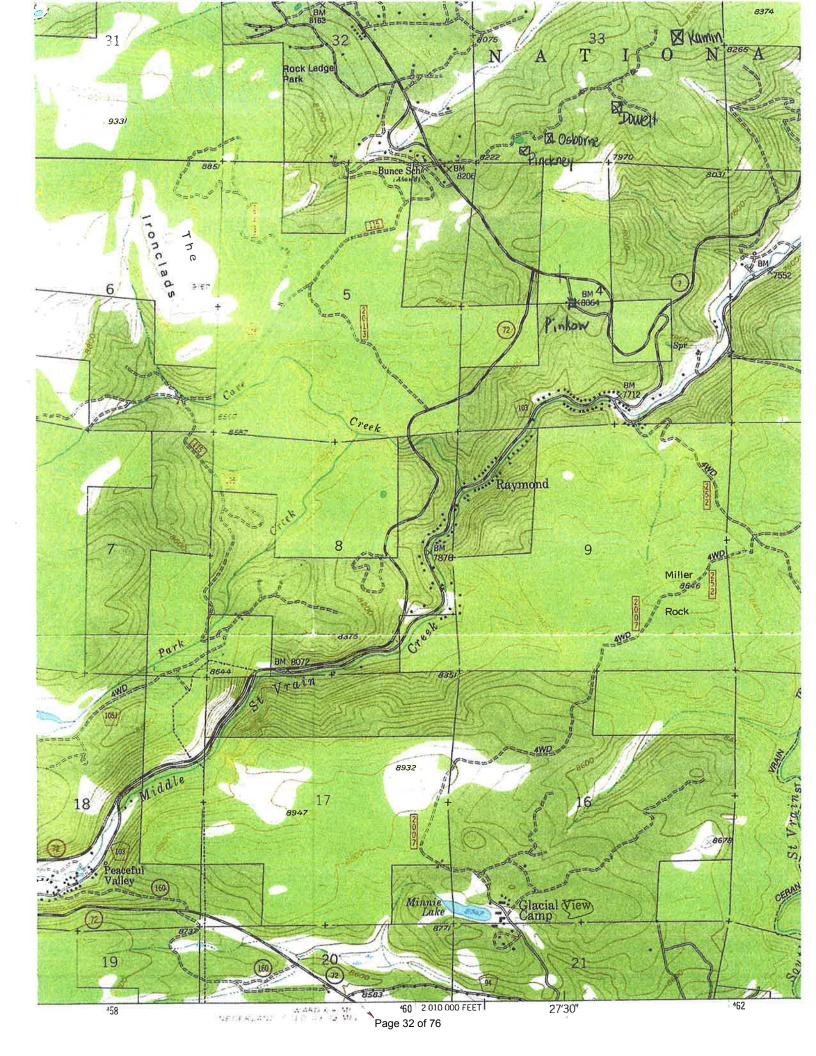
Boulder Resident and owner of property at 19354 Highway 7

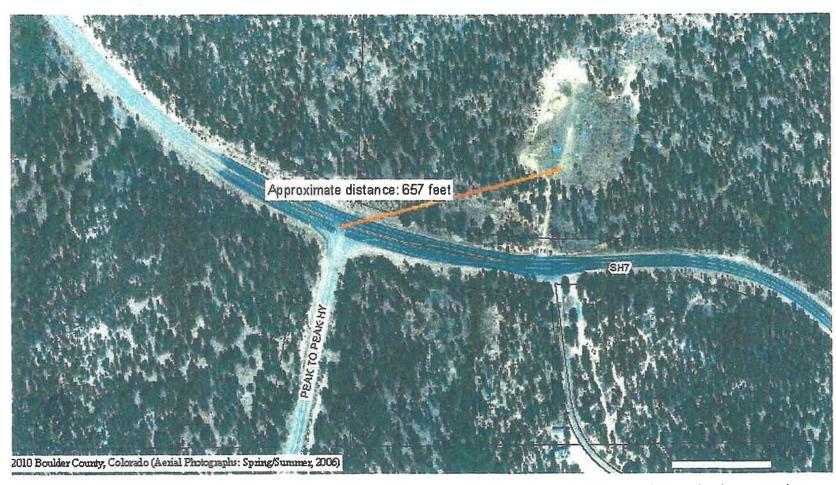
attachments: CD recording and map of State Highway 7 at State Highway 72



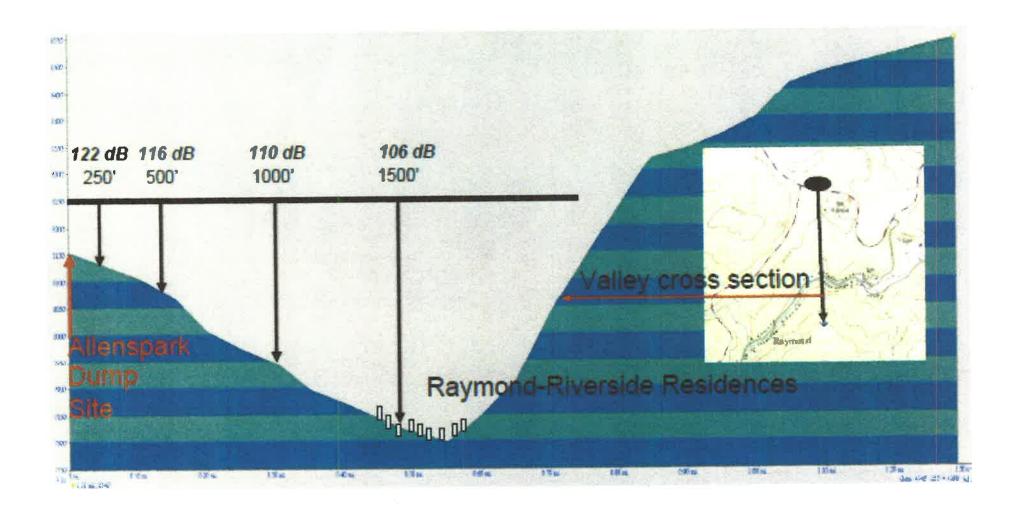


Page 31 of 76

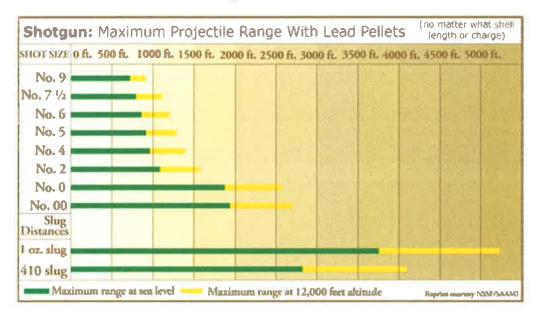


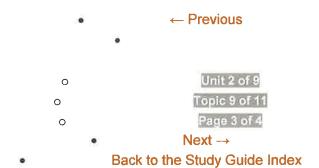


Boulder County Fri Jun 18 15:53:27 MDT 2010 This map is intended for display purposes only and is not intended for any legal representations



Maximum Projectile Range—Shotgun





Federal Noise Control Act

42 U.S.C. §4901 et seq. (1972)

Inadequately controlled noise presents a growing danger to the health and welfare of the Nation's population, particularly in urban areas. The major sources of noise include transportation vehicles and equipment, machinery, appliances, and other products in commerce. The Noise Control Act of 1972 establishes a national policy to promote an environment for all Americans free from noise that jeopardizes their health and welfare.

http://www.euro.who.int/en/what-we-do/health-topics/environmental-health/noise

World Health Organization

Excessive noise seriously harms human health and interferes with people's daily activities at school, at work, at home and during leisure time. It can disturb sleep, cause cardiovascular and psychophysiological effects, reduce performance and provoke annoyance responses and changes in social behaviour.



Expensions 1124 Azipalson Avenus Soute 104 Ikadiler, CCO 80300

Sciephone 303-245-7070 facsimile 303-245-7075 www.nypoment.com

June 22, 2010

John E. Putnam Kaplan Kirsch & Rockwell LLP 1675 Broadway, Suite 2300 Denver, CO 80202

Subject: Old Allenspark Dumpsite and Proposed Shooting Range

Exponent Project No. 1003733.000

Dear John:

At your request, I visited the subject site and reviewed the available documents regarding historical use of the site and the Concept Plan from the U.S. Forest Service regarding development of the site as a shooting range. Based on the information reviewed, and prior experience with health-based evaluation and remediation of contaminated sites, I have several reservations about the development of this site for use as a shooting range. I have also conferred with environmental engineers and ecologists within Exponent in developing my thinking in this regard. The specifics of my concerns are elucidated below. Please know that I would be pleased to expand on the technical detail of any of these comments, at your request.

The area being proposed for development is a former dump site, interchangeably referred to as the Raymond Dump, Allenspark Dumpsite, Raymond-Allenspark Dump, and the Raymond-Allenspark Sanitary Landfill. Dumps, and even the more technically-engineered and managed landfills, are well known as sources of release of chemical contamination to the environment. This occurs because of the diversity of chemicals that may have been deposited in the dumps, as well as resulting from subsequent interactions within the dump. For example, toxic chemicals that may have been deposited in the dump, such as household or industrial waste, might include metals, chlorinated solvents, and pesticides from household use. Management practices such as burning of municipal trash, as was done at this location, would be expected to generate dioxins and polycyclic aromatic hydrocarbons (PAHs) within what are now the confines of the filled area. Additionally, chemistry that occurs within the filled area over time can result in conditions that favor release of toxic chemicals; for example, low pH and redox conditions are known to liberate metals from dumps and landfills, and explosive and noxious gases such as methane and hydrogen sulfide, respectively, are widely known to be created within landfills and require active mitigation.

Although it is common in some areas to develop former landfill areas to a "higher use," such development should not occur without thorough characterization of the area to ensure that development does not compromise the health and safety of area residents, visitors, or wildlife.

John E. Putnam June 22, 2010 Page 2

My investigation indicates that at this point in time the former Raymond Dump is not appropriate for development. My comments here focus on the issues that any development could exacerbate the release of toxic chemicals to the environment, that structural modifications of the area are not appropriate, and that the Concept Plan from the U.S. Forest Service does not provide an adequate basis to substantiate development in the area.

This dump appears to be completely uncharacterized with regard to the potential for release of toxic chemicals to the environment. Records from the Boulder County Health Department indicate that materials deposited in the dump included municipal waste, clothing, furniture, cars, appliances, demolition debris, "drums," and "other." Records also indicate disposal of sanitary wastes in designated portions of the dump, and that periodic burning was conducted to minimize the volume of waste in the dump.

Review of historical records also indicates a history of poor management practices and ongoing illegal dumping. Lack of oversight of the dump while it was active limits the ability to predict the types of contamination that might be contained within the dump. I have not been able to locate any records of an engineered closure, characterization or monitoring, and inspection of the site provides no indication of historic or ongoing monitoring. Conversely, a brief physical inspection of the site does provide indications that releases from the dump may be occurring. Specifically, the presence of hydrophytic vegetation (such as reeds and rushes) in water collected on the surface of the dump indicates the presence of perennial water (as opposed to temporary ponding of runoff). No seeps were readily identifiable on the face of the dump; however, groundwater daylights in a spring approximately 50 meters down gradient from the dump, and may in fact be a conduit for contamination from the dump to the Middle St. Vrain River.

Given the apparent lack of baseline characterization of this former dump, it would be inappropriate for the U.S. Forest Service to promote development of the area. Site characterization needs to be conducted to ensure that the use of heavy equipment on the site, recontouring of the area, or additional development and activity will not destabilize the dump in a manner that will increase the potential for release of toxic chemicals. Releases of chemicals from the site would impact area wildlife that rely on downgradient stream flow in this area, as well as having the potential for causing increased releases to the Middle St. Vrain River. Land moving, construction, and shooting are also not appropriate in the absence of characterization of the potential for releases of explosive or noxious gases that are commonly associated with landfills and which could present a safety hazard to workers and recreational users of the area.

Although it appears that characterization of the dump has not been conducted, some recent surface soil sampling indicates that soil lead levels in the area currently exceed health-based thresholds for both protection of human health and wildlife. Lead is well known to be associated with neurological toxicity in humans following long-term exposure to even low levels. It can also be toxic following acute exposures to higher levels. Young children have



John E. Putnam June 22, 2010 Page 3

reportedly suffered significant health effects or death following accidental ingestion of objects that contain high concentrations of lead. The adverse effect of lead on wildlife has also been established. Toxicity in both avian and mammalian species includes effects on the biochemistry, behavior, physiology, pathology, reproduction, growth, or survival. Effects of short-term exposures by mammals is not well studied, but several investigations have indicated that individual birds can be killed following accidental ingestion or intentional dosing of as little as one single piece of lead shot.

In two grab samples collected from the dump site, soil lead concentrations exceeded 800 ppm. The presence of these elevated levels in the surface horizon of the soil indicates that the source of the lead is associated with the use of the area as an informal shooting range. Presence at the surface also allows for direct contact with the contamination by humans that may visit the area and by wildlife receptors. Although there are no human health-based screening levels specific to shooting ranges, these reported concentrations exceed both the residential soil lead threshold of 400 mg/kg and the threshold for soils in industrial areas of 800 mg/kg that have been established by U.S. Environmental Protection Agency (EPA). Perhaps equally or more relevant to this site, the measured concentrations significantly exceed EPA's screening criteria for ecological receptors (i.e., ecological soil screening levels (Eco SSLs). The Eco SSLs for lead in soil are set at 11 mg/kg for protection of avian species, 56 mg/kg for protection of mammalian species, and 120 mg/kg for protection of plant life.

In addition to the potential for development to contribute to or exacerbate the release of toxic chemicals from the dump, the continued use or expanded development of the site could result in or complicate liabilities for any toxic releases that might occur from the site in the future. One would think that the U.S. Forest Service would be irresponsible to sanction activities that might result in additions to any contamination already existing in the dump; once contaminants are comingled, separating liability becomes complex.

Based on inspection of the site, review of historic records, and evaluation of recent data, any development of this area is not appropriate in the absence of a meaningful effort to characterize baseline conditions. This characterization should encompass a characterization of wastes within the profile of the historic dump, potential releases of contaminants from the dump, and the stability of the area to machinery and for development. To date, the information compiled by the U.S. Forest Service does not provide the minimum substantiation for any sanctioned activity or development of the area.

Sincerely,

Sr. Managing Scientist

 $\mathbf{E}^{\mathbf{x}_{\mathsf{m}}}$

SCHOMER AND ASSOCIATES, INC.

Consultants in Acoustics and Noise Control

Paul D. Schomer, Ph.D., P.E.
Member; Board Certified
Institute of Noise Control Engineering

2117 ROBERT DRIVE
CHAMPAIGN, ILLINOIS 61821
PHONE: (217) 359-6602

FAX: (217) 359-3303

22 June 2010

Mr. John Putnam, Kaplan Kirsch Rockwell, LLP 1675 Broadway, Suite 2300 Denver, CO 80202

Mr. John Putnam,

The US Forest Service proposes to permit construction of a shooting range on what is known as the "Old Allenspark Dumpsite." Paul Schomer of Schomer and Associates Inc. has reviewed this proposal using the following materials:

- 1. Two topographical maps of the old Allenspark dumpsite and proposed shooting range, both by Jon Bell dated June 16, 2010 and April 4, 2010
- 2. Area map entitled: Allenspark Shooting Study
- 3. Site schematic entitled: Allenspark Recreational Shooting Project: Proposed Action Site Concept Plan
- 4. A set of three photographs of the present study site

The Proposed Action Site Concept Plan, item 3 above, offers little detail on which to make a thorough noise assessment. The proposed plan appears to indicate at least three types of weapons: pistols, rifles, and shotguns. One example weapon from each of these three types of weapons has been selected for study and is listed in table 1. For operations, we have assumed a "busy hour" of 5 shooters for each of the 3 types of weapons, each shooter firing 60 rounds per hour (1 round per minute). This rate of fire calculates to 300 rounds per hour for each of the 3 types of weapons for a total of 900 rounds per hour, 15 rounds per minute—a reasonably conservative "busy hour" rate of fire.

The received sound levels have been calculated at 3 locations, each of which appears to have line-of-sight directly to the proposed range. The received sound levels have been calculated using the methods and procedures of ISO 9613-2—Acoustics—Attenuation of Sound during Propagation Outdoors—Part 2: General method of calculation. For each weapon and location the following metrics have been calculated: Peak sound level, A-weighted fast maximum sound level, A-weighted sound exposure level (ALEQ.-slow maximum sound level), and the 1-hour A-weighted equivalent level (ALEQ). Of these, the A-weighted fast maximum sound level and the A-weighted sound exposure level (ALEQ.-slow maximum sound level) corresponding to the metric required by the Colorado State statute and the Boulder County ordinance. Both statute and ordinance set the maximum level for impulsive sound at 50 dBA. Since, for

small arms, the fast A-weighed sound level is about 7 decibels higher than the ASEL, and the statute and ordinance are silent on which to choose, we compare the lower-level ASEL to the criterion level of 50 dB.

Table 1. Characteristics of the 3 weapons chosen for this analysis: 1 shotgun, 1 pistol, and 1 rifle

	Weapon	Caliber	Ammunition	V0	mass	length	rounds
				(m/s)	(g)	(mm)	per hour
Shotgun	Beretta 686, barrel length 70 cm; diameter 18.8mm (3/4 narrowing). Elevation 30 degrees, muzzle height 2.0 m		Winchester Trap AA Plus, 24 g (lead) 2.2mm				20
Pistol	Beretta 9mm M92 F compact	9mm	9mm sharp M/41	ca. 340	7	15	20
Rifle	Rifle M/87 (precision)	7.62mm	cal.308 Winchester Match 12.3g		12.3		20

The calculated levels, criteria, and exceedances are all listed in table 2. The rifle sound levels are predicted based on the rifle firing towards the Dowell and Kamin residences and always from the Pinkow residence. The shotgun and a pistol lines-of-fire are assumed to be perpendicular to lines from the firing site to any of the three residences. In general, the rifle produces the largest ASEL. This rifle generated ASEL is much higher than the 50 dB criterion at all three calculation positions. Table 2 also includes a prediction for the hourly ALEQ, and compares these predictions to a common criterion of 55 dB. For this notional calculation, 900 rounds per hour (15 per minute) is assumed, 300 rounds for each type of weapon. In accordance with ISO 1996—1 and ANSI S-12.9—Part 4, a 12-dB penalty is added to the calculated ALEQ to account for the "highly impulsive" nature of small arms firing sound.

All of the calculated ASEL exceed the 50 dB criterion by a great deal—the smallest exceedances are over 20 dB. For reference, 20 dB corresponds to a 100-fold increase in energy. All of the calculated ALEQ exceed the 55 dB criterion. The exceedances are almost the same large number of decibels as for ASEL. These two metrics encompass what is used for many to most environmental noise regulations in the United States.

Other propagation factors tend to cancel each other out. The dip in the terrain north of the two knolls, the air-to-ground propagation caused by the knolls, and rocky surfaces all tend to increase the received sound levels over the predictions herein; and the forest cover will tend to decrease the received sound levels. From my experience, I estimate that the combination of factors that will increase the received sound levels are as great or greater than the one factor that can decrease the received sound levels.

Thus, within a reasonable degree of scientific certainty, I predict that noise levels emanating from the proposed range will exceed applicable Colorado State and County noise regulations by a very substantial amount. The predicted exceedances are huge. And exceedances will exist out to a distance of 2 to 3 miles from the firing position. Because of the huge exceedances, and the relatively large number of homes near the proposed range, this project should be considered as controversial and with large impacts. Thus, a full EIS should be generated.

Table2. Calculation results for the indicated metrics at the 3 residences indicated

Residence	Kamin	Dowell	Pinkow	
Distance (ft); source to receiver	4,500	3200	800	
Distance (ft); source to barrier	900	900	400	
Effective Barrier height (ft)	45	50	15	
Lpeak	110.2	112.7	114.7	
ASEL	71.6	74.5	74.3	
Criterion	50	50	50	
Exceedance	21.6	24.5	24.3	
LEQ(hr)	61.1	64.0	65.8	
Adj LEQ	73.1	76.0	77.8	
Criterion	55	55	55	
Exceedance	18.1	21.0	22.8	

Signed:

Paul Schomer, Ph.D., P.E.

Paul Schoren

Member, Board Certified; Institute of Noise Control Engineering

PROPOSED ALLENSPARK RECREATIONAL SHOOTING RANGES

ENVIRONMENTAL ASSESSMENT SCOPPING COMMENTS

The scope for the Environmental Assessment for the proposed "Allenspark Recreational Shooting Project" should address the numerous significant off-site safety issues created by the proposed project. These include:

- Errant projectiles falling in the Surface Danger Zone created by the rifle range to the North of the proposed ranges.
- 2) Errant projectiles falling in the Surface Danger Zone created by the pistol range to the East of the proposed ranges.
- 3) Errant projectiles falling in the Surface Danger Zone created by the shotgun range.
- 4) The off-range hazard created by the limited property available for projectiles exiting the shooting areas.
- 5) The off-range hazard created by the lack of ownership and control of the down range SDZ areas.
- The off-range hazard created by the lack of fences, gates, and other security measures leading to unauthorized shooting at the proposed ranges
- 7) The off-range hazard created by the lack of supervision at each of the ranges during the shooting.
- 8) The off-range hazard created by the lack of required berms and baffles at the ranges.
- 9) Use of the ranges by law enforcement organizations.
- 10) The absence of a plinking range and other ranges.
- 11) Consideration of future development and activities in the vicinity of the range.
- 12) Consideration of alternatives sites including other locations and the no-build alternative.

ALLENSPARK RECREATIONAL SHOOTING PROJECT" EA HAZARD ASSESSMENT

The scope of the EA should include preparation of a site specific off-range Hazard Assessment.

The "Allenspark Recreational Shooting Project", the EA hazard assessment should employ

basic standards and procedures for a hazard assessment as commonly used for facilities involving private and public safety.

To evaluate the off-site safety hazard created by the Allenspark Recreational Shooting grange, it is important to establish the Surface Danger Zone or SDZ created by the range; its extent and if the range has full control of the properties within the SDZ. The SDZ is the area that errant bullets exiting the range can impact.

Circumstances to be considered that commonly result in errant bullets exiting the Allenspark Recreational Shooting range to be addressed should include;

- Shooters shoot from alternative locations and not from the designated firing sheds.
- Shooters are unaware of the distance their bullets can travel and the hazard created,
- Shooters set up and shoot at make-shift and multiple targets in various locations,
- Shooters engage in un-aimed and "hip-shooting",
- Shooters engage in rapid and automatic fire shooting,
- Shooters who are novices or who are inexperienced and have not had firearms safety training,
- Shooters under the influence of alcohol or drugs,
- Shooters using guns that are not properly sighted in,
- Shooters who either accidentally or intentionally shoot in an unsafe direction.
- Novice and inexperienced shooters holding an incorrect sight picture.
- Shooters with physical impairments,
- Shooters who "flinch" (close their eyes and/or pull off-target) when shooting.
- Unauthorized shooters entering on to the property.
- Unintentional discharges.

THE ALLENSPARK RECREATIONAL SHOOTING PROJECT PISTOL RANGE

It appears that the Allenspark Recreational Shooting pistol range will not be fully enclosed and will have large open air blue-sky areas. It is understood the pistol range will have an

unspecified enclosure located at each of the firing positions but that there will be neither overhead nor ground baffles down range nor berms on each side of the range. Nor are there facilities to be provided for range management and supervision at the pistol range.

Thus the EA scope should address that shooters will be able to see blue-sky and that bullets could pass over the berm and penetrate into the blue-sky creating a Safety Danger Zone downrange. The extent of this SDZ should be based on common pistols used by shooters, capable of hitting off-range properties and residences out to a distance of over a mile to the East of the pistol range. The EA scope should address pistol shooting positions from standing to bench rest and that a variety of weapons will be used..

THE ALLENSPARK RECREATIONAL SHOOTING PROJECT RIFLE RANGE

It appears that the Allenspark Recreational Shooting rifle range will not be fully enclosed and will have large open air blue-sky areas. It is understood the rifle range will have an unspecified enclosure located at each of the firing positions and a berm downrange, but that there will be no overhead or ground baffles down range nor a berm on the left of the range. Nor are there facilities to be provided for range management and supervision at the rifle range.

Thus the EA scope should address that shooters will be able to see blue-sky and that bullets could pass over the berms and penetrate into the blue-sky creating a Safety Danger Zone downrange. The extent of this SDZ should be based on common rifles used by shooters, capable of hitting off-range properties and residences out to a distance of approximately three miles to the North from the rifle range and beyond the project map. The EA scope should address all rifle shooting positions from standing to prone and that a variety of weapons will be used.

THE ALLENSPARK RECREATIONAL SHOOTING PROJECT SHOTGUN RANGE

From the information available it is understood the shotgun range is only for skeet shooting. In accord to the NRA Range Source Book, this will create a SDZ or shotfall area with a 180 degree arc extending out 900 feet. Specific information on the shotgun range configuration and shooting position was not provided.

ABSENCE OF "PLINKING" AND OTHER RANGES:

22 June 2010 4 of 4

The limited size of the range limits shooting activities that would be anticipated to be included in any new public shooting range such as areas for 300 and 500 yard rifle shooting, "plinking", a silhouette shooting range, or the very popular cowboy action shooting.

The absence of a "plinking" range poses a hazard in as much as the rifle range in particular will be used for this activity.

The proposed Allenspark Recreational Shooting Project shooting ranges as configured, located in a populated area, pose a material hazard to the surrounding properties and their residents. Preventing the ranges from posing such a hazard will be a significant and difficult challenge.

Prepared By:

M. Muel

Roy Ruel, PE

All-Engineers, LLC

From: Nate Hunt

To: Case, Dale; Oeth, Amy

Subject: Comments on Land Use Code Amendments regarding Firing Ranges

Date: Tuesday, September 06, 2016 11:55:26 AM

Attachments: Comments on Boulder Land Use Amendments re Shooting Ranges.pdf

Dear Mr. Case:

I am emailing regarding the proposed Land Use Amendments for Firing Ranges. I submitted comments to you on behalf of the Glacier View Neighbors Association last week on August 31, 2016 (see e-mail below). At the time I tried e-mailing our comments, the Boulder County website was not functioning and I could not obtain the e-mail addresses for submitting comments. I called and left a message requesting your e-mail address but did not receive a response. It appears I submitted the comments to an incorrect e-mail address. My apologies for the incorrect spelling of your last name on the letter.

Please let me know that you have received this email and the attached comments.

Thank you, Nate

Nate Hunt

Kaplan Kirsch & Rockwell LLP 1675 Broadway #2300 Denver, CO 80202 nhunt@kaplankirsch.com 303.825.7000 http://www.kaplankirsch.com

KAPLAN KIRSCH ROCKWELL

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Please consider our environment before printing this email.

From: Nate Hunt

Sent: Wednesday, August 31, 2016 4:48 PM

To: 'dchase@bouldercounty.org'

Cc: John Putnam

Subject: Comments on Land Use Code Amendments regarding Firing Ranges

Dear Mr. Chase:

Attached are comments submitted on behalf of Glacier View Neighbors Association regarding the proposed Land Use Code Amendments relating to firing ranges. Thank you for your consideration and please confirm your receipt of these comments.

Thanks, Nate



August 31, 2016

VIA E-MAIL

Dale Chase Land Use Planning Division Boulder County, Colorado 2045 13th Street Boulder, CO 80302

Re: DC-15-0003: Land Use Code Amendments Regarding Firing and Shooting

Ranges

Dear Mr. Chase:

On behalf of the Glacier View Neighbors Association and a number of individual landowners in and around Allenspark (collectively, "Glacier View"), I am submitting these comments regarding the Land Use Planning Division's ("Division") proposed ordinance amendments for firing ranges in Boulder County (the "amendments"). Glacier View generally supports the proposed amendments, but believes that some modifications to the amendments are necessary to ensure the attainment of the County's objective of protecting public safety and the compatibility of firing ranges with surrounding land uses. Glacier View's recommendations will improve the amendments' measures intended to address negative impacts caused by firing ranges.

Glacier View does not make its recommendations lightly or in a vacuum. recommendations are based on a long and difficult history with a recreational shooting area at the former Allenspark Dump, located on a small 97-acre parcel of National Forest land near the junction of Highways 72 and 7 and surrounded by private property. The families that comprise Glacier View have been actively involved with issues related to recreational sport-shooting since 2006, when a wildfire sparked by recreational shooting at the Dump developed into a large, uncontrolled forest fire that threatened their properties and lives. Rain and the effective response of fire fighters prevented a major catastrophe caused by irresponsible shooters. For several years, the downrange residents experienced numerous near-misses from the reckless shooting of automatic and semiautomatic weapons in the vicinity of several residences. That dangerous shooting continued until the U.S. Forest Service closed the Dump to shooting in April, 2010.

Dale Chase August 31, 2016 Page 2

Since then, Glacier View has fought to prevent the Dump from being used as a firing range, including the submission of detailed comments on the unsuitable nature of the site and commissioning studies regarding the impact and design of firing ranges.

The Allenspark Dump is an example of a shooting area that is dangerously incompatible with surrounding land uses due to the insufficient space at the site to create separation adequate for safety and protection from noise impacts. Glacier View is encouraged by the proposed restrictions and offers further recommended changes with the objective of further enhancing safety and compatibility with nearby residential areas and other land uses.

Surface Danger Zone and Firing Range Definitions. As residents surrounding the Allenspark Dump shooting area, we have firsthand knowledge of the dangers presented by a nearby firing range. Thus, we strongly support the County's designation of a Surface Danger Zone. Because the Zone is a key safety component of a firing range, we recommend the following additions to ensure maximum safety:

- Section 18-xxx should expressly recognize that site-specific factors may require the County to impose additional restrictions on a firing range. The definition of "Surface Danger Zone" contemplates the reduction of spatial requirements—i.e., safety margins or measures—in consideration of topographic features and manmade improvements. However, it is important that the amendments make clear that the spatial requirements are a floor, not a ceiling. At certain sites, additional spatial requirements and other measures may be appropriate despite the presence of topographic features that serve as mitigating measures. We recommend that the Division include language expressly recognizing its authority to impose additional spatial requirements and safety measures necessary to address the particular conditions of a site and the surrounding properties.
- Expand the setback in Section 4-510.1.E. Our experience demonstrates that 1,320 feet from residences is an insufficient setback. We recommend a minimum setback of one mile (approximately 5,280 feet) from residences, even if special safety features are employed, such as no-blue-sky overhead baffles. This addresses the range of dangers posed by rifles commonly used at ranges, even with baffles in place.

Dale Chase August 31, 2016 Page 3

• Variances to the setback in Section 4-510.1.E should require a signed agreement by all relevant property owners. Many residents that make up Glacier View were affected by the shooting activities at Allenspark Dump, despite not having property directly adjoining the site. However, the amendments' provision allowing a setback to be reduced through an agreement with "the adjoining property owner" unreasonably vests that individual, no matter how small their property may be or how it is situated, with the ability to sign away the minimum setback, despite the fact that a firing range may pose dangers to residents far beyond the immediate property adjoining a firing range. Thus, we recommend that the setback wavier provision be replaced with a broader provision that ensures potentially affected persons are included in decisions to reduce setbacks.

Specific Criteria/Development Standards. We support the County's proposed designed criteria in Section 4-602, but believe they can be improved with the following modifications:

- Expressly recognize that the County may impose additional protections to address site-specific conditions. Again, while the regulations afford the County discretion to deviate from the standards where topographic features may mitigate potential adverse effects, it does not expressly afford the County discretion to impose stricter standards on a particular site. It is important that the amendments expressly recognize the County may impose stricter standards even where site conditions have the potential to mitigate effects of a firing range.
- Section 4-602.F.1.a should include range design standards established by the federal government. While we support the County's establishing criteria for the firing range design, it is important that the County consider other design guidelines in addition to those established by the firearm industry. Thus, we recommend amending Section 4-602.F.1.a to state: "Such geographic areas should be based on industry-accepted range design guidelines, standards and best practices, including those established by the U.S. Department of Defense, Department of Energy, and other federal agencies."
- Section 4-602.F.2 should ensure that security is not compromised. We support the amendments' security provision and also believe that minimizing impacts to wildlife is important. However, fencing intended to accommodate wildlife should not compromise measures intended to ensure human safety and prevent trespass on the property. Accordingly, we recommend modifying Section 4-602.F.2 to

state: "Fencing where wildlife is a concern should be designed and installed to be wildlife safe while maintaining all measures intended to secure a firing range and reduce potential for trespass on the property."

- Section 4-602.F.4's noise level threshold should be reduced. Based on our experience and extensive evaluation of noise impacts at the Allenspark Dump, we believe that the 65 dB peak impulse response at the property line is insufficient to ensure compatibility with surrounding residences. Consistent with Boulder County's noise restrictions in Ordinance 92-28, we urge the County to require that sound levels generated by the discharge of firearms on a range do not exceed 50 dB peak impulse response at the property line. Further, given that noise is one of the primary concerns with shooting ranges, in addition to the dangers posed by firearms, the amendments should require (1) that acoustical tests be performed on any proposed site prior to development, and (2) that assessment of acoustic impacts on surrounding land uses consider topography that may affect the projection and resonance of sound. Determining whether a site is acoustically compatible with the surrounding effected properties will inform the design of a potential firing range and would help prevent future conflicts that may arise from noise impacts.
- Section 4-602.F.8 should require environmental remediation prior to development of a site. An environmental stewardship plan is critical to ensuring that a proposed range has minimal impact on the surrounding environment. However, consistent with that provision, the amendments should require that currently existing conditions—including any contamination from previous land use (such as a shooting range, landfill or other venue)—should be cleaned up prior to development of a site as an approved firing range. The firing range at Allenspark Dump highlights the importance of addressing existing environmental issues at a site prior to construction of the range. The Dump contains noxious and potentially dangerous materials and the development of the range would expose materials and destabilize the site. Ascertaining existing levels of contamination and mitigating them would provide the County with a baseline of the conditions at the site, including soil quality, against which the County can evaluate the future environmental impacts of a firing range.

Accordingly, we recommend adding the following requirement to Section 4-602.F.8: "Prior to development of the firing range, the developer/operator shall

remediate any existing environmental hazards or pollution, including lead and other wastes or conditions, posing risks to human health or the environment."

- Section 4-602.F.9 should be amended to enhance public safety. Although Section 4-602.F.9's operation requirements are a good start to ensuring public safety, we urge the County to provide additional safety measures. First, Section 4-602.F.9.e should expressly require approval by the Land Use Department and Sheriff of a Safety Plan before development of a firing range. Second, effective supervision of a firing range is paramount to ensuring the safe and responsible operation of a range. In the interest of public safety, it is critical that the County requires that professional firing range supervisors must be present during all hours of operation of the range.
- Section 4-602.F.9.g should be amended to ensure compliance with the environmental stewardship plan. To ensure that a firing range is being operated in an environmentally sensitive manner, the amendments should expressly provide for the County's review of the range to ensure compliance with the environmental stewardship plan. Accordingly, Section 4-602.F.9.g should be amended as follows: "Through the Special Review process the Board of County Commissioners (BOCC) may require periodic reviews to assure effective monitoring and operation of the range to protect the health and safety of those in the area and to ensure compliance with the environmental stewardship plan. If at any time the BOCC finds the operation does not meet the design or operational expectations or the environmental stewardship plan, they may modify existing conditions or impose additional conditions to address concerns."
- Section 4-602.F.10.a.ii's "established residence" requirement is unreasonable and must be stricken from the amendments. Glacier View is concerned with Section 4-602.F.10.a.ii's restriction that "Complainants must have established residence within Boulder County on or before January 1, 1985." Although the provision is based on the C.R.S. § 25-12-109, there is no apparent justification for the restriction, which has the effect of providing only those people who have been living in Boulder County for over 30 years with the right to initiate enforcement against excessive noise caused by a firing range. This provision is arbitrary, unlawful, and would violate the constitutional protections of due process and equal rights. It also undermines the intent of the ordinance, which is to ensure *all* "residents and recreational users in any area near a proposed range" in Boulder

Dale Chase August 31, 2016 Page 6

County are adequately protected. The existing resident restriction must be stricken from the amendments.

Thank you for considering Glacier View's comments and please contact Nate Hunt or me at (303)825-7000 if you have any questions or would like additional information.

Sincerely,

John/E. Putnam

Referral comments regarding potential firing range sites, not Land Use Code proposal DC-15-0003

A STATEMENT OF CONCERNS

From: THE PEAK TO PEAK SCENIC BYWAY COALITION

1. GENERAL CONCERNS:

The Peak-to-Peak Scenic Byway Coalition represents the shared interests of a great many property owners and other stakeholders in the Front Range's high country along the Peak-to-Peak Highway, primarily in Boulder County. The Coalition comprises the owners of ranches, permanent residences, summer residences, off-grid residences, wilderness cabins, and land—including large adjacent tracts under Conservation Easement to either Boulder County or the Nature Conservancy—as well as renters, visitors, hikers, backpackers, family campers, mountain bikers, students, fishermen, birders, rock climbers, equestrians, religious retreats, wedding parties, veterans, photographers, students, researchers, and many other wilderness, wildlife, and forest stakeholders who regularly enjoy, use, or study western Boulder County's spectacular mountains, lakes, wildlife, and forest.

Our Coalition was formed out of concern about the obvious inappropriateness of the five possible target shooting area sites in the Peak-to-Peak corridor that have been chosen by the County Commissioners and the Northern Front Range Recreational Sport Shooting Management Partnership (the "Partnership"), of which Boulder County is a member. The Partnership is considering at least one of these sites to recommend to the U.S. Forest Service, essentially as a "sacrifice zone," in furtherance of the Forest Service's desire to build designated target shooting areas in the increasingly populated Front Range. This "sacrifice" supposedly counterbalances the Forest Service's well-documented need to ban unregulated dispersed shooting in that portion of the Arapaho/Roosevelt National Forest.

The Coalition takes no stand against the right to own a firearm nor against a designated shooting area that is placed on an appropriate, non-destructive site. Indeed, many, perhaps most, of us in the mountains are responsible gun owners. What we are concerned about is recreational firearm use that risks—regardless of whether shooting occurs responsibly or irresponsibly or in either concentrated or dispersed form—severe and, possibly catastrophic property damage, injury, or loss of life. In addition to those risks, any designated shooting area in the Peak-to-Peak corridor will—with 100% certainty—cause continual, long-term, concentrated harm to the quiet enjoyment of public lands (including wilderness areas) as well as to private users and property. The Forest Service cannot show that replacing dispersed shooting in the Forest with designated shooting areas will reduce the threat to people, to wildlife, or to the land and water that we all depend on. In fact, such replacement would concentrate some of the risks, especially those of wildfire, damaging noise, and serious land and water pollution.

Such an outdoor target shooting area in the Peak-to-Peak corridor will disrupt Boulder County's wildlife population, its migration patterns and its habitat, degrade water quality, and plainly be contrary to Boulder County's well-regarded, strongly supported, and publicly stated conservation and environmental goals, especially in the mountains. Every outdoor shooting area, with its inevitable too loud and fear-inducing noise, safety issues, fire danger, stray bullets, chemical and other pollution, sewage, and traffic, will negatively impact its surrounding area. Minimal Forest Service rules notwithstanding, such impacts realistically can extend up to several miles from any shooting activity. The Peak-to-Peak Scenic Byway corridor is not an acceptable place for a designated, open-air, recreational shooting area. There are too many full-time and part-time residents, ranchers, visitors, and other stakeholders there now.

2. FLAWED PROCESS CONCERNS: Unanswered questions.

After participating in several Partnership and Forest Service feedback sessions, including meeting with members of the Partnership and several Commissioners and their Staff, and upon careful examination of the Partnership's documentation and methodology, we are deeply concerned over the total inappropriateness of all five of the nominated Peak-to-Peak corridor sites (Allenspark Dump, Bunce School Road, Beaver Reservoir Road, Ruby Gulch, and West Magnolia Road) that the Partnership is considering.

The careless process used by the Commissioners and the Partnership to choose these possible sites is seriously flawed. Decisions are being made with no information from the Forest Service on what constitutes a designated Shooting Area; what its size and layout are, how many people can use it simultaneously, hours and days of operation, and what weapons will be allowed or disallowed. Will there be a requirement for lead-free ammunition? Will there be a requirement to use noise-suppression equipment? What will be the consequences to target shooters when rules or laws are broken, as history shows is certain to occur? Under what violative or harmful circumstances will a target shooting area be closed down, either temporarily or permanently? How will any such shooting area be regulated, staffed, patrolled, managed, protected, cleaned up, and/or financed by an understaffed federal agency with a poor enforcement track record in Boulder County? One would think that the answers to these specific and important questions would bear considerably on the choice of any site.

For example, the Partnership's selection process for the five possible sites in the Peak-to-Peak corridor has used incomplete GIS maps and has presented those maps repeatedly to the public, in spite of having been informed since almost the beginning of the process that those maps are incomplete and inaccurate. On the maps used, an off-the-grid residence within one half mile of one of the nominated sites is not shown. Many square miles of land (close to 3000 acres) under Conservation Easements are not shown; trails and dozens of nearby campsites are unmarked, etc. One site is within one half of a mile of CU's Mountain Research Station, whose ongoing work will be seriously compromised by an adjoining public shooting area. Another nominated site is in the middle of a large and ancient wildlife migration corridor, designated on the Boulder County Comprehensive Plan as "Critical Wildlife Habitat and Migration Corridor". That Corridor is supposed to be permanently protected by both Nature Conservancy and Boulder County Open Space Easements. Another nominated site is only one-half mile from Nederland High School.

In addition, the exclusive membership of the Front Range Sports Shooting Partnership does not include representatives from any of the municipalities involved, nor are there any representatives of the large number of private citizen users and property owners that will be affected. There is no public access to the content of the Partnership's meetings and many comments submitted by the public to the Partnership website after the "open houses", are only partially scanned or are truncated for no discernible reason.

The Jefferson County Public Shooting Range Working Group posts all its Minutes and Reports on the web and its membership includes representatives of all the many stakeholders.

3. QUID-PRO-QUO CONCERNS:

It has been expressed by some of the Commissioners and their Staff that the establishment of a recreational shooting area in the most desirable Boulder County high mountain country - the Peak-to-Peak corridor - is a necessary quid-pro-quo to counterbalance (pay for) the banning of unsupervised dispersed shooting in that part of the A/R National Forest. This is a governmentally, environmentally, and recreationally bankrupt compromise. If the Forest Service lands of that part of the Boulder County high mountains are deemed inappropriately dangerous for dispersed shooting, then, by definition, the five sites along the Peak-to-Peak corridor selected by the Commissioners and Partnership to be considered for a designated Shooting Area are also dangerously inappropriate.

But this arbitrary "quid-pro-quo" linkage of the two should not be considered a given. The two goals can be implemented at wholly different times. These decisions, which will negatively affect a huge number of people, should be made separately and only after answering important questions such as those listed in No. 2 above. The accountable County agencies involved here have lent their prestige to this quid-pro-quo solution, thereby failing to represent the concerns of a large number of Boulder County residents, property owners, and recreational users, by planning to recommend one wholly inappropriate site out of five wholly inappropriate sites.

The Forest Service has stated that any of its land within a half-mile of residential subdivisions or concentrated recreational use areas is unsuitable for recreational sport shooting. This standard establishes that **no** Forest Service land in the Peak-to-Peak Scenic Byway corridor is appropriate for recreational sport shooting, dispersed or designated.

A properly and carefully designed process must develop firm criteria before identifying areas for consideration, and get the answers to specific questions of Forest Service target shooting policy first. The uproar over the current choice of five sites demonstrates that the present process being used is seriously flawed. The maps being used must be correct, and all the stakeholders must be represented.

Each of these open-air shooting sites will create or exacerbate water pollution problems. Lead or other metals used in ammunition, and arsenic, mercury, phosphorous, or chlorates from partially combusted, constantly accumulating gunpowder residues will settle into the porous sandy ground and be washed downstream or into groundwater after every single summer afternoon downpour.

And, most serious of all, these sites would all create year-round omnipresent risk of dangerous wildfires.

4. WILDFIRE CONCERNS:

Boulder County's foothill and mountain dwellers and users are subject to a constant, well-documented, high-probability risk of forest fires, many of which have recently proven to be exceptionally destructive to property and expensive for the County and its residents. A superheated bullet fragment ricocheting off a rock in a berm in a designated open-air shooting area in the Peak-to-Peak corridor, would create a wildfire that would be swept east toward more populated areas of the County by the prevailing westerly winds. During the summer of 2015, three wildfires were started by shooters in Forest Service designated Shooting Areas. One, in the Forest Services's Byers Canyon Shooting Range in Grand County, was sparked by a legal .223 full-metal jacket rifle round that travelled **two miles** to create a fire that burned a square mile of land, with the inevitable forced evacuation of residents and recreationists. The other two fires occurred in the Pawnee Grasslands Shooting Area of Weld County. In August, 2016, two more wildfires were started in the Forest Service Pawnee Grasslands Shooting Area by shooters using illegal exploding targets.

The Beaver Lake Fire of September, 1988, caused by a neglected campfire, was blown eastward through Silver Spruce Ranch and the Boy Scout Camp and almost reached the Peak-to-Peak Highway, when the wind changed course, to blow from the east and the fire was then forced back westward, toward Beaver Creek..

Given those experiences, it is simply untenable to presume that a designated target Shooting Area in western, densely forested, Boulder County is less risky than the unregulated dispersed shooting now occurring. The risk of a forest fire increases the more one enables separate independent uses (shooting, campfires, fireworks, etc.), each with its own individual risk. The initial risk need not be larger than a tiny probability before it becomes essentially certain over the course of a few years a forest fire will erupt to destroy people's homes and lives, and drain County coffers yet again.

Two of the Commissioners' and the Partnership's currently proposed shooting sites (Ruby Gulch and Beaver Reservoir Road) are within the Fire District of the town of Ward, along the Peak-to-Peak Scenic Byway. The burden of protecting large numbers of nearby property and residences from a fire erupting at Ruby Gulch or Beaver Reservoir Road will fall on Ward's Indian Peaks Fire Dept. whose ratio of funding to acreage and buildings protected is one of the smallest in all of Colorado.

The proposed Shooting Area site on Beaver Reservoir Road sits right on Beaver Reservoir Road, which is the only access or fire evacuation route for the 100 or so veterans (including a few from WW II) who spend the summer at the American Legion Veterans' Camp at Beaver Reservoir A fire at the proposed Beaver Reservoir Road site would close off, perhaps fatally, any possibility for most of the resident veterans, those who do not have access to the necessary high clearance 4WD vehicles that are capable of escaping down the very steep, rough, and rocky road to Camp Dick on the Middle St. Vrain River.

This life threatening situation also applies to the people who live at Stapp Lakes farther west on Beaver Reservoir Road..

LIST OF RECENT WILDFIRES CAUSED BY SHOOTERS IN W. COLORADO

DATE:	LOCATION:	ACRES BURNED:	EVACUATIONS:	
9/2015	USFS Byers Canyon Rifle Range	600	Yes	
10/2015	USFS Baker Draw Shooti Pawnee Grassland	ng Area 1. 560 2. 29	No No	
2/2016	<u>n</u> .	1. 171 2. 29	No No	
8/2016	п	715	No	

CONCLUSION

The internationally known Peak-to-Peak Scenic Byway and the mountain areas it provides access to are an irreplaceable treasure of Boulder County. Wittingly or not, the Boulder County Commissioners and their Partnership are participating in a process that will cause significant economic harm to one of the County's most productive assets, and also will essentially damage the integrity of and trust in Boulder County's own Comprehensive Plan, its Open Space program, and its other conservation goals, such as encouraging the gift of Conservation Easements to help protect the County's extraordinary wildlife, land, and water.

Each such open air recreational shooting area will create a circle-of-harm that will permanently degrade, and threaten large swaths, measured in square miles, of the heavily populated and widely used land of the Peak-to-Peak corridor, both public and private. This plan for the Peak-to-Peak corridor would be carried out at the expense of the very many for the pleasure of a small minority that historically has demonstrated considerable difficulty in policing itself, and from which, in the past, significant and well-documented harms have ensued.

All five of these possible sites are dangerously inappropriate, are damaging to many residents of Boulder County and the choosing of them is insensitive to both local and county-wide concerns. We strongly urge the Boulder County Commissioners, the Front Range Sport Shooting Partnership, and the Arapaho/Roosevelt National Forest to withdraw from consideration all of the five nominated sites in the Peak-to-Peak corridor and to find elsewhere a more appropriate and less dangerous and damaging site for the proposed Boulder County designated recreational Shooting Area.

THE PEAK-TO-PEAK SCENIC BYWAY COALITION

for further information: consult www.peaktopeakcoalition.com

 Doug McKenna
 303-4459-3286

 Priscilla McKenna
 303-459-3265

 47517 Peak-to-Peak Highway
 303-449-5777

 Ward, CO 80841

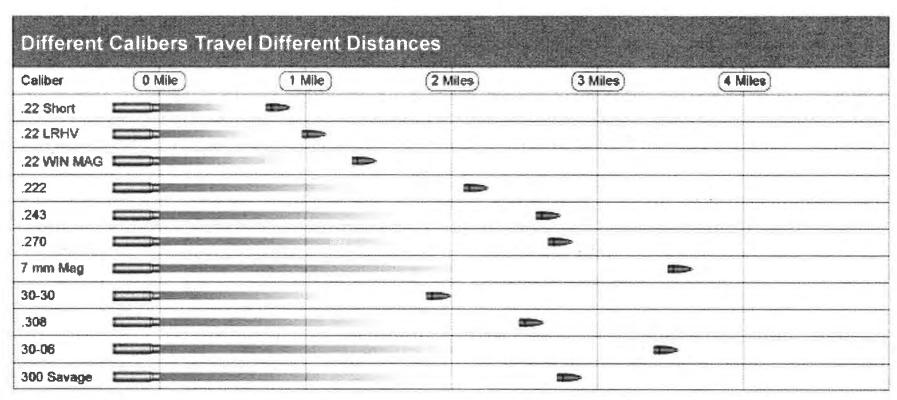
Attached:

List of wildfires recently generated by designated Forest Service open-air Shooting Areas in western Colorado - 2015, 2016.

Letter from the Commander of the Longmont American Legion re Beaver Reservoir Veterans' Camp.

Letter from The Nature Conservancy re the Wildlife Habitat and Migration protected by the Conservation Easements on the South St. Vrain Valley given to TNC.

Table of ranges of bullets from different guns.



from www.gohunt.com



The Nature Conservancy in Colorado 2424 Spruce Street Boulder, CO 80302 tel [303] 444-2950 fax [303] 444-2986

nature.org/colorado

Delivered via email to: <u>comments-rm-arapaho-roosevelt@fs.fed.us</u> September 8, 2015

United States Forest Service Arapahoe and Roosevelt National Forests 2150 Centre Ave. Building E Fort Collins, CO 80526

Re: Plan to Prohibit Dispersed Shooting in Arapahoe and Roosevelt National Forests While Simultaneously Creating Designated Recreational Sport Target Shooting Ranges or Areas

To whom it may concern:

Thank you for the opportunity to comment on the selection of shooting range sites in Arapahoe and Roosevelt National Forests. The Nature Conservancy is a non-profit organization dedicated to conserving the lands and waters on which all life depends. In Colorado, the Conservancy has worked with local communities to conserve over 900,000 acres of grasslands, forests, sagebrush and wetlands. We are science-based and collaborative, and work to bring public and private partners together to find solutions to the most important conservation issues.

The Nature Conservancy currently holds eight conservation easements with four landowners in the area around the proposed Beaver Reservoir Road shooting range in Boulder County. The Rangeview Ranch Conservation Easement, completed in 1976, was one of the Conservancy's first easements in Colorado. Since that time the Conservancy has protected an additional 1,714 acres in the immediate area. Together with Boulder County's conservation easement on the Welch Ranch, our conservation efforts form a block of protected land encompassing 2,824 acres. Much of this protected property is within a few hundred feet to two miles of the proposed shooting range site at Beaver Reservoir Road.

These protected properties are in a substantially undisturbed, natural state and provide significant habitat for native plants and wildlife. This cluster of protected lands provides a unique permanent connectivity of the high elevation mountains to the foothills which provides a migration route for bear, elk, deer, and other wildlife. Together the protected properties form a Conservation Area that is ecologically diverse, and includes riparian vegetation communities, narrow canyons, extensive meadows, montane forests, wetlands, rivers and creeks, and springs. The Conservation Area provides natural habitat for a rich assemblage of plants, invertebrates, fish, amphibians, reptiles, mammals, and birds including, otter, moose, elk, deer, mountain lion, bobcat, coyote, bear, raptors, songbirds, heron and other water birds, and many other kinds of birds. The protected properties provide important calving areas for elk. In addition to the biological values protected, the conservation easements protect outstanding scenic and open space values that can be enjoyed by the general public from multiple Boulder County Roads, the "Peak to Peak Highway," and public trails.

The Nature Conservancy is entrusted to perpetually protect the conservation values of the eight conservation easements in this Conservation Area. We are concerned that the location of the shooting range in close proximity to these conserved properties may have an impact on the conservation values, including increasing the risk of wildfire and degradation of water quality. The Conservancy urges decision makers to fully consider impacts of the proposed activities to this valuable conservation resource of Western Boulder County. Please feel free to contact me if you have any questions.

Sincerely,

Nathan Moyer

Conservation Easement Program Manager

Nath Joyn

AMERICANTERCION



John F. Buckley Post # 32

315 South Bowen Street Longmont, Colorado 80501 303 776-2034



7/14/2015

To all concerned parties;

Beaver Reservoir has been leased by the American Legion Post 32 of Longmont since the early 1950's as a retreat for our returning soldiers and as a safe haven to reenter into civilian life. The thought that a shooting range so close after all these years is a setback in our cause to reestablish these individuals to civilian life. We do not condone a shooting range anywhere close to Beaver Reservoir for these reasons.

The high traffic area due to hikers and campers is not compatible for one thing, we have a lot of traffic coming up from Camp Dick in atv riders, jeepers and hikers and on the other end we have a Boy Scout camp, hikers and campers numbering in the hundreds all the way from highway 72 to the Coney Flats trailhead.

We know no one wants this in their backyard, but we believe a controlled shooting range is the best answer. We already deal with random shooters in our area at all times of the day and night, and

while listening to gun fire and wonder if a stray round is going to come through the camper.

Many of us are hunters but we do not allow shooting or firearms at Beaver reservoir except to be transported to and from their campers. We recently disallowed BB and pellet gun shooting in camp due to the possibility of an accidental shooting.

It's a daunting task to find a compatible shooting area that all can agree on, so we are aware of your plight and would agree to meet or attend any of your sessions to help find a reasonable solution.

I am constantly reading about the problem and even read comments people write and retort to, at best it has been a right and tradition to shoot in national forests but now comes the masses and developments that are challenging that right. I do not want to tread on civil rights but unless recreational shooting is monitored and sequestered it is going to be a problem for those of us who do adhere to shooting guidelines and common sense.

Sincerely

Tom Daschofsky

Post 32 Commander

Boulder Daily Camera 8/3/16

No 10 gallons, no campfire

By Doug McKenna

H idden in the mountainous national forest in western Boulder County, there are thousands of unofficial campsites with informal firepits. Many dozens of them are next to the western border of my extended family's ranch.

In 1988, a careless camper started a forest fire that burned our land, national forest and neighboring Boy Scout property. The density of careless weekend campers has since at least

doubled.

So during fire season, we load a portable water tank onto a pickup truck and privately patrol these campsites. Neither the fire department nor the cashstrapped Forest Service does this. During fire bans, a county sheriff checks, but without any useful water and only when someone complains.

We reluctantly perform this public service out of "enlightened" self-interest because we invariably find and extinguish abandoned, smoldering campfires that threaten us and our neighbors. The near weekly summertime frequency that this occurs is not just sobering, it's frightening.

At 5:30 p.m. on a windy
Saturday evening, a few
hours after careless campers ignited Nederland's
Cold Springs fire, Sheriff
Pelle belatedly issued a fire
ban. With telltale campfire
smoke rising near us, we
printed copies of the
announcement to distribute, and headed out in our

water truck to inform campers of their newly changed duties that, by virtue of being off-the-grid, they would not know about.

There were over a dozen open fires. And within minutes we found an unattended one, coals and large logs smoking in the audible wind, its unidentifiable igniters departed. After raking and many gallons of watering, we had it extinguished.

It being early in the evening (i.e., there were only a few obstreperous drunks), the folks we informed were understanding and cooperative. Some were reluctant to cut their dinner cooking short, having no other means. Most knew about the prominently visible fire near Nederland that afternoon, though not its campfire origin.

I asked each camper: Do you have enough water to put your fire out? With two exceptions who asked for our water truck's help, everyone said yes, proudly showing us maybe a gallon of water. In short, no one was properly prepared. And a weekend camper often builds two fires.

It can take 10 gallons to douse a campfire to be confident it won't re-ignite, certainly when there's a steady, dry wind. Burning logs create buried layers of insulated coals, so one must soak everything thoroughly. If the ashes aren't cool to the touch, it is not out.

After the 1976 Big Thompson Flood, with its many fatalities and proper-

ty losses, the county erected educational road signs about "climbing to safety." But don't destructive human-caused forest fires occur more frequently than destructive flash floods?

We need similar signs on all roads leading to any mountain campsites. They should say: "Campfires Require Ten Gallons to Douse. Got Your Water?"

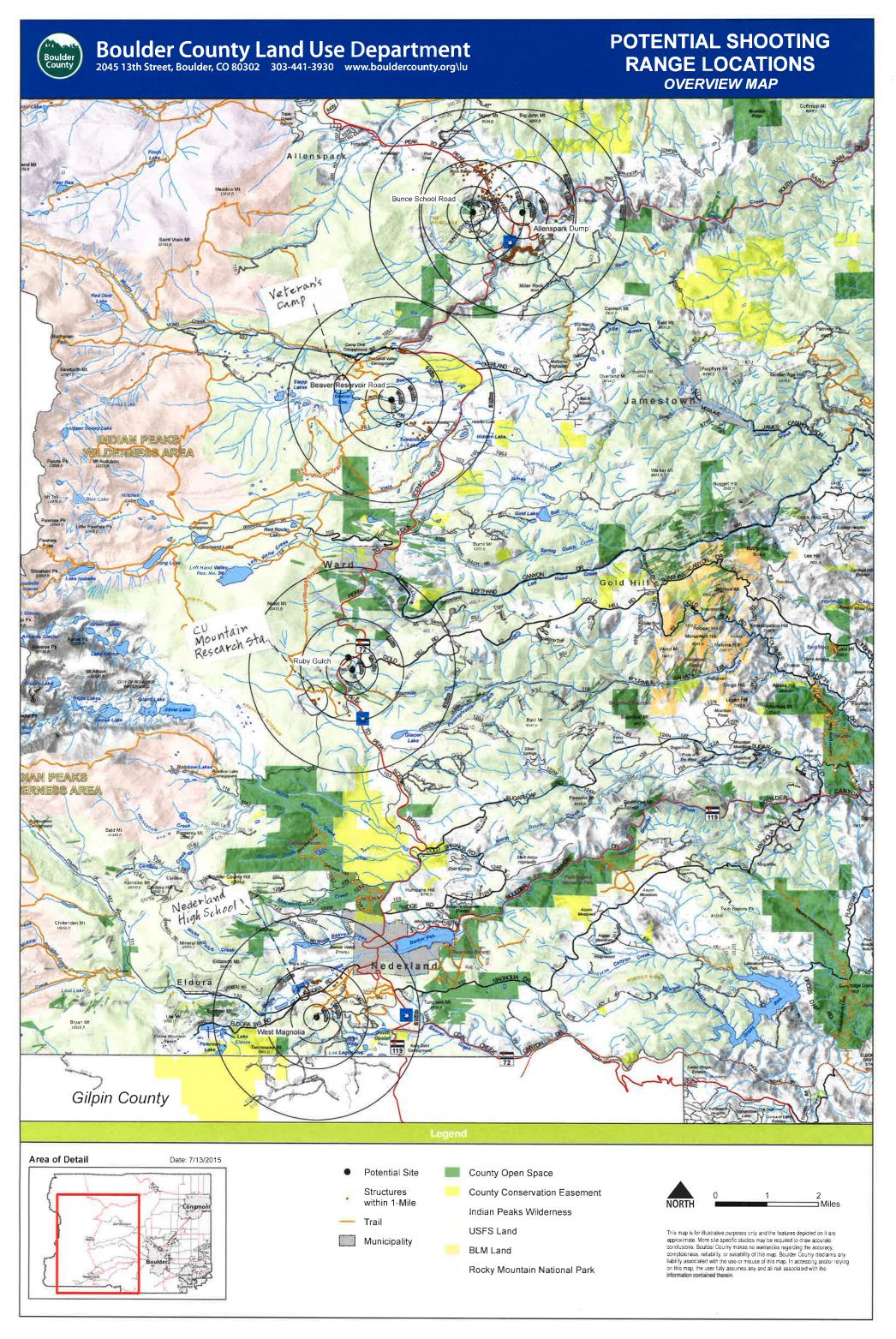
Perhaps there also should be legal teeth behind these warnings. Without 10 gallons of water directly on hand to put it out safely, a campfire in forested Boulder County should be prohibited, regardless of any fire ban. Anyone who doesn't have the means to douse their campfire responsibly should be ticketed for recklessly endangering the public.

Regardless of any law, by informing demonstrably ignorant or forgetful national forest visitors of proper campfire management, such permanent signs would help protect every mountain resident a lot more than sporadic fire

bans.

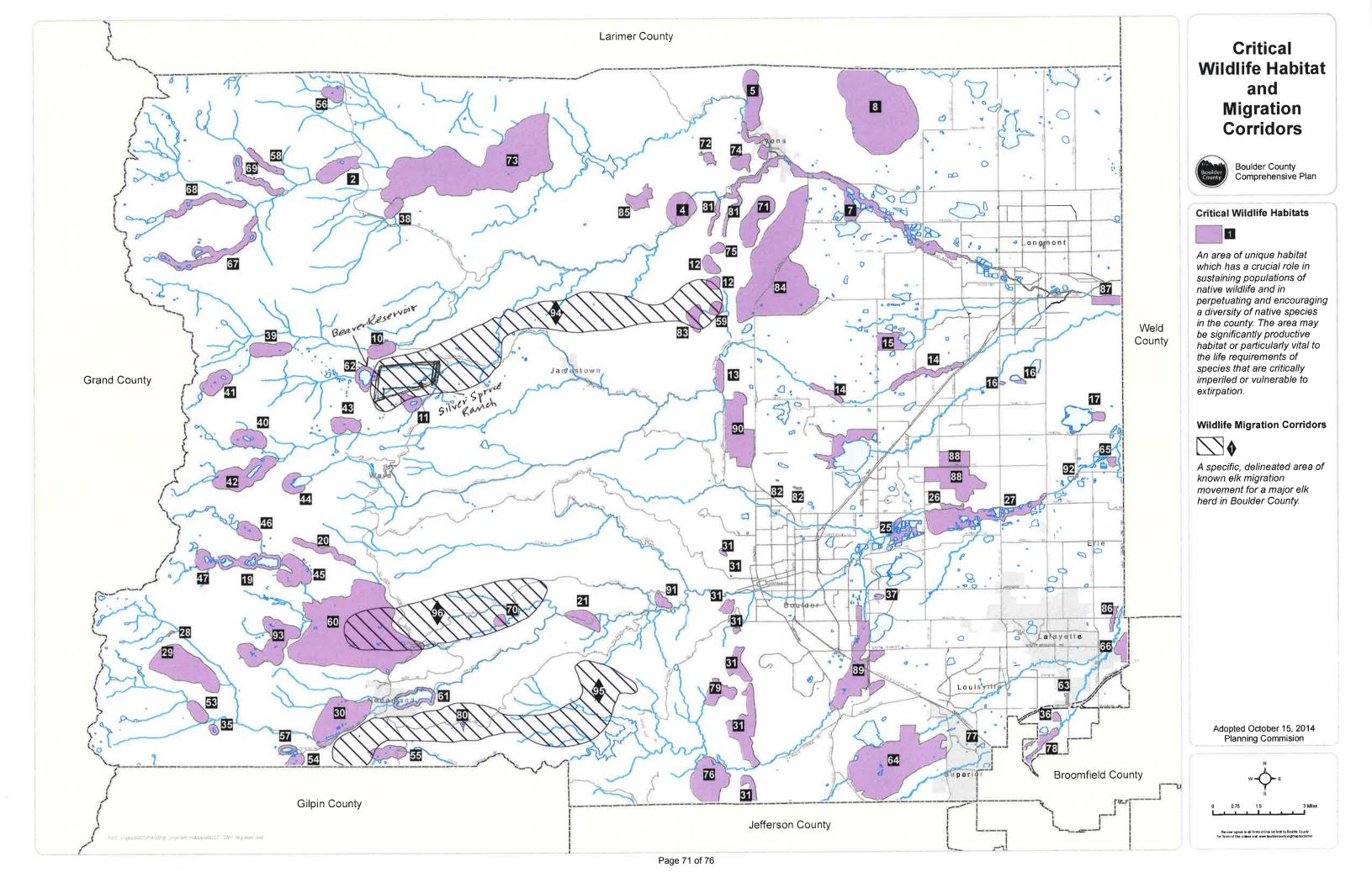
Yes, there are careless idiots and drunks in the forest, but most campers desire to be responsible. Let's help everyone avoid a common mistake with enormous consequences. If just one future forest fire in Boulder County is prevented, all such informative signs will have paid for themselves.

Doug McKenna lives in Boulder and helps manage Silver Spruce Ranch in western Boulder County.



Boulder County Land Use Department 2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org\lu **Beaver Reservoir Road Potential Shooting Range Proximity Map** 10000 Potential Site 9800 Structures within 9600 1-Mile 9400 **USFS** Trail 9200 County Open Space Camp Dick **County Conservation** Campground 9 Easement Indian Peaks 9000 Goodpow Easement Peacefull Valley Wilderness Campground OVER AND **USFS** Land Welch & Matthews Rangevie CO State Parks Land Easements Easemen Beav Stapp McKenna Easements Potentia Lakes 8 Goodnow Easements Site EENER Beaver **Benedict Easements** Rangeview Easement Benedict Easement McKenna Easements Corrected Map Santazakeres Hidden Lake \$ 967 1,000 2,000 Hidden Lake 1 in = 2,000 feetiblesor Area of Detail Date: 7/9/2015 #00J State of Colorado Parks. 0,000 by Boulder County, For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer Vrain 8800

Beaver Reservoir Road Boulder County Land Use Department 2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org\lu **Potential Shooting Range Proximity Map** 10000 Potential Site 9800 Structures within 9600 1-Mile 9400 USFS Trail 9200 County Open Space Camp Dick **County Conservation** Campground 9 Easement Indian Peaks 72 9000 Peacefull Valley Wilderness OVERLAND Campground **USFS** Land Inaccurate Map used by the Commissioners and the Stapp 9 Potential Lakes 8 Site Partnership BENER Beaver Res. Hidden Lake Santazakeres 963 1,000 2,000 Hidden Lake umblesor 1 in = 2,000 feetArea of Detail Date: 7/9/2015 FOOJ 0 1000 The user agrees to all Terms of Use set forth by Boulder County, For Terms of Use, please 8800



From: CarlsonFamily
To: #LandUsePlanner
Subject: Comment on DC-15-0003

Date: Thursday, October 06, 2016 9:46:00 AM

Please honor Constitutional 2nd Amendment rights by providing sufficient target ranges.

Thank you!

From: Ask A Planner
To: #LandUsePlanner

Subject: Ask a Planner - Web inquiry from Kirk Cunningham - DC15-0003

Date: Monday, August 29, 2016 2:58:58 PM

Boulder County Property Address: Peak-to-Peak Highway and vicinity

If your comments are regarding a specific docket, please enter the docket number: DC15-0003

Name: Kirk Cunningham

Email Address: kmcunnin@juno.com Phone Number: (303) 939-8519

Please enter your question or comment: The County's stated goals in this docket are admirable as far as

they go, but seem unlikely to produce a satisfactory result.

The ARNF has recently proposed five potential designated shooting sites at various places along the Peak-to-Peak Highway between the West Magnolia area and the junction of Colorado 72 and 7. The Sierra Club objects to ANY designated or informal shooting areas in this part of the ARNF for the following reasons:

- 1. The stated purpose of such a designation is to concentrate shooting at one area where (in principle) it can be better regulated compared to the dispersed shooting that presently occurs. However, since the ARNF has effectively no enforcement personnel to enforce any shooting activities anywhere, we anticipate that people will shoot where they want regardless of any designated area. I also strongly suspect that the Boulder County Sheriff is not looking for more law enforcement opportunities involving armed individuals!
- 2. Two shooting areas designated on the plains (on the Pawnee Grasslands and near Byers) are generally better located given the remoteness of those areas but at both locations unsupervised shooting has resulted in fires that have burned a total of about 2000 nearby acres in the last few years. One can imagine that a designated shooting area will also be an even bigger fire hazard on forested land. We already have enough idiots causing fires in the mountains through other kinds of carelessness!

 3. Needless to say, there are few areas west of the Peak-to-Peak highway that are not heavily used by recreationists virtually all year around. Public lands east of this highway are in addition interspersed with many private properties occupied most of the year. Bullets fired, either by mistake or deliberately, away from target backstops are no respecter of persons. This is the reason, for example, why many hikers avoid the ARNF lands in hunting season, all because of a relatively tiny number of people who actually hunt on Front Range public lands. Dispersed or designated shooting areas pose dangers all year! And of course, the noise of a designated shooting area, is not conducive to the quiet, respectful recreational enjoyment of public lands practiced and advocated by the Sierra Club.

Recreational shooting should be allowed only at very remote, unfrequented sites outdoors or at indoor facilities run by the government or private companies.

Conservation Chair, Indian Peaks Group

Sierra Club

Public record acknowledgement:

I acknowledge that this submission is considered a public record and will be made available by request under the Colorado Open Records Act.

To Boulder County,

I am writing concerning the collaborative effort undertaken by the County and its partners and the Land Use Code regarding Firing Ranges. I have two concerns that I would like to address.

- 1) Boulder County is currently considering 5 sites for a shooting or firing range, with a commitment to select at least one. I strongly encourage the County to establish more than one site, as it is quite likely that the demand for recreational shooting will be heavy, especially on the weekends.
- 2) Current USFS regulations prohibit shooting within 150 yards of a residence, building, campsite, developed recreation site or any occupied area (including occupied trails or roads), and prohibit shooting across roads. The County has proposed to extend that to 1,320 feet (440 yards), roughly tripling the existing regulation. I am concerned that the plan under consideration eliminates almost all possibilities for dispersed shooting. My review of the proposed map for Boulder County shows that all of the proposed areas remaining available for dispersed shooting are not accessible by road. I encourage the county to review the areas proposed for closure to dispersed shooting to identify areas accessible by road where dispersed shooting could still be undertaken.

Thank you.

Sincerely,

Harry Lane David

445 Huron Ave Eldora, CO 80466

Prof. D303@gmail.com

REASONABLE AND REALISTIC PROXIMITY AND ENVIRONMENTAL STANDARDS WOULD DOOM THE BEAVER RESERVOIR ROAD SHOOTING RANGE SITE

Stan Heginbotham
s.heginbotham@att.net
Ward, CO
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The procedures and criteria that the Sport Shooting Partnership is employing in its well-intentioned venture to identify Shooting Range sites in four front range counties are seriously flawed.

The use of firearms has been a traditional feature of life in these mountains. As an Expert rifle and pistol marksman trained in the U.S. Marine Corps, I understand and value the tradition of recreational shooting. At the same time, populations along the Peak to Peak Scenic Byway are committed to promoting and ensuring safe practices in our communities and have strong commitments to the extraordinary natural beauty and rich wildlife and flora of this scenic corridor. We are highly conscious of the fact that human presence and activity -- especially activities that endanger public safety and produce significant noise -- impinge on and undermine the quality of life in these mountains.

The fact is that the Peak to Peak Scenic corridor is not only significantly populated but is also used by numerous organizations and parks to expose visitors to the great natural resources of the area. As a result there are precious few acreages large and remote enough to meet the very considerable land requirements for safe and non-destructive shooting areas. In order to provide even minimal choices for Shooting Range areas, the Forest Service and its partners have established preliminary criteria for identifying potential sites that seriously impinge on the natural uses of the land by residents and visitors. Their preliminary criteria establish ludicrously small standards for distances of facilities from a possible shooting range site: a quarter-mile from campgrounds, recreation areas, trails, and single homes; a half mile from subdivisions and or town sites, and a mile from municipalities.

Both safety and even moderate noise considerations require well over a mile separation of shooting ranges from significant human and wildlife habitation and usage. Unsupervised shooters cannot be counted on to observe rigorous safety procedures that might justify minimal separation standards from a safety perspective. Human activities and wildlife corridors require much greater separation norms when realistic noise considerations are taken into account (noise carries surprising distances in the rarified mountain air, especially when it reflects off rocky cliffs). Two miles or more would be an appropriate separation criterion. But even minimally reasonable separation criteria would virtually eliminate site options along the Peak to Peak Scenic corridor.

That result, however, would be bureaucratically and politically unpalatable. Nationally, the Forest Service has concluded -- for whatever reason -- that it needs to integrate Recreational Sport Shooting provisions into its Forest Plan. When that mandate gets passed down to the local level, the resulting "objective" (bureaucratese for "directive") is to "Identify at least one designated shooting area within each county inside or adjacent to the Arapaho and Roosevelt National Forests." There is no proviso that appropriate land for such an area need be available within each of those counties. The interests of individuals, residences, institutions and wildlife within those should, in other words, be subordinated to the politically driven imperatives of a federal bureaucracy.

[PTO]

The Beaver Reservoir Road site is a particularly egregious violation of common sense and rational planning resulting from this pressure to make local conditions conform to national norms. On a space of roughly a dozen acres that was initially identified as meeting its preliminary criteria, the Partnership chose a site just a few hundred feet from private land, barely more than a quarter-mile from the extensively used Sourdough Trail, less than a mile from Peaceful Valley Campground, and barely more than a mile from Tahosa Boy Scout Camp, from Peaceful Valley Resort, from Camp Dick Campground, from an American Legion fishing camp, from Santazakers and Hidden Lake residential subdivisions and from numerous private residences. Minimally realistic separation criteria would have wiped these few acres of Forest Service land off the "possible designated shooting sites" map because of any one or combination of these considerations.

Even more troublesome is the fact that the Preliminary Criteria totally ignore a critical characteristic of the environment surrounding the Potential Site on Beaver Reservoir Road: much of the private land that would be impacted by a Shooting Range is under conservation easements administered by the Nature Conservancy and Boulder County Open Spaces. These lands cannot be developed and must be maintained in their natural state in order to encourage and promote the habitats and migration patterns of the many animals that frequent the area. Approximately 35 acres of protected land are less than a quarter mile from the proposed site; about 130 acres are less than a half mile from the proposed site, and about 400 acres are less than a mile from the proposed site. The noise, traffic, and human activity resulting from a Shooting Range would dramatically violate the intent and legal obligations of existing conservation easements. This factor alone provides persuasive grounds for eliminating the Beaver Reservoir Road site from any possible consideration as a location for a Shooting Range.

It is no wonder, then, that the Forest Service and the Partnership should have been deluged by opposition from institutions and individuals whose lives and activities would be adversely affected by a Shooting Range on the Beaver Reservoir Road Potential Site. This opposition, which reflects the unreasonable use of preliminary criteria and is grounded in the realities of living and recreating along the Peak to Peak Scenic Byway, is completely persuasive. This site should be removed from consideration by the Partnership and the Forest Service.

The strategy of identifying five prospective sites in Boulder County from which at least one must presumably be chosen pits, of course, neighbor against neighbor. For me to suggest that the Beaver Reservoir Road site is totally inappropriate, according to that presumed logic, implies that I believe that one of the remaining four "possible" sites should be chosen. I reject that logic and that implication. It is quite possible that none of the other sites is appropriate. Preliminary scans suggest that The Bunce School, Allenspark Dump, and West Magnolia sites make little more sense. The first two are adjacent to -- on either side of -- the Peak to Peak Scenic Highway in close proximity to many private residences. The West Magnolia site is barely more than a mile from Nederland and would clearly severely impact the lives of many residents of that town. The case for or against Ruby Gulch is less obvious, though it is less than two miles from the Ward town boundary.

The critical point, however, is that decisions on where --if at all -- shooting ranges are to be allowed on Forest Service land in Boulder County should be determined by the best interests of the residents, institutions, and wildlife of Boulder County, not by the efforts of federal agencies to make the county conform to political and bureaucratic pressures negotiated in Washington, D.C. I suspect that residents of the other three counties involved in this dispute would endorse that principle as well.