

Summary of Comments Submitted 1/10/23-2/13/23		181300 COID	181315 Rickard	191400-200 Moon Pit	191400-3300 201500-300 Millican	191400-2400 Golden Basin	211900 212000 Brothers
Total Parties Submitting Comments		123	72	219	234	219	3
General Dissent		111	43	14	12	12	1
Zoning	Wildlife Zoning	0	0	205	208	0	0
	Landfill Overlay	1	0	0	0	0	0
	Zoning General	40	5	0	8	0	0
Property	Residence Impacts	110	37	0	3	0	0
	Property Value	95	32	0	1	0	0
	Health	103	28	0	1	0	0
Transportation	Truck Access Route	4	2	0	0	0	0
	Self Haul Distance	0	0	0	10	0	0
	Traffic	111	26	0	12	0	0
	Haul Distance	0	3	0	6	0	0
Wildlife	Wildlife (general)	110	20	205	220	0	1
	Raven Impact	0	1	12	23	11	2
	Sage Grouse	0	1	217	233	11	2
	Eagles, other raptors	104	4	217	231	11	0
	Antelope	89	1	12	5	11	0
	Bats	0	0	0	20	0	0
	Deer	102	8	216	210	11	0
	Elk			0	205		0
	Cougar			0	205		0
Rodent Problems	0	5	0	3	0	1	
Recreation	Recreation (general)	4	6	205	215	0	0
	Hanggliders	0	0	0	85	0	0
	OHV	0	1	0	12	0	0
	Shooting	0	0	0	3	0	0
	Hiking	2	3	0	8	0	0
	Horses	15	2	0	11	0	0
	Biking	1	1	0	3	0	0
Environmental Impacts	Litter	54	6	0	10	0	0
	Air	16	21	0	16	0	0
	Groundwater	110	32	0	25	0	0
	Noise	108	23	217	230	11	0
	Light	90	13	12	14	11	0
	Odor	94	16	0	11	0	0
	Visual	0	1	0	11	0	0
	Snow/Ice	0	0	0	3	0	0
	Dust	0	6	0	2	0	0
Wind	0	1	0	0	0	0	
Engineering	Floodplain	0	0	0	8	0	0
	Topography	0	0	0	11	0	0
	Soils	0	0	0	15	0	0
Other	Badlands Impact	89	1	12	21	11	0
	Pine Mtn Observatory	1	1	12	16	11	0
	Cultural Resources	15	0	0	5	0	0
	Growth	0	7	0	0	0	0
	Vectors (Birds, Rats)	0	2	0	1	0	0
	Airports	102	5	0	2	0	0
	Wildfire Concerns	86	1	0	1	0	0
	Selection Process	0	7	0	0	0	0
	Communications Concerns	13	3	0	0	0	0
School	0	0	0		0	0	

**400 SW Bluff Drive, Suite 240
Bend, OR 97702**

January 16, 2023

Deschutes County Department of Solid Waste
Solid Waste Advisory Committee (SWAC)
61150 SE 27th St.
Bend, OR 97702

**Re: Landfill Site Evaluation Process
Comments Regarding Parcel 181315
"Rickard Road Site"**

Dear Committee Members and Staff:

Our offices represent Todd Kane and Nathan Braun, owners of approximately 40 acres addressed as 23555 Rickard Road, which is adjacent to and southeast of the subject site referenced above. They have asked us to provide a legal analysis of the proposal to site Deschutes County's next solid waste landfill within the approximately 750-acre site owned by Deschutes County. This submittal will provide our initial findings in writing and is intended to supplement our testimony to the Committee on January 17.

Mr. Kane and Mr. Braun recognize that this Committee's work is controversial and likely to draw strong public comments. It is not their intention to make the site evaluation process more difficult. Just the opposite, they have asked our offices to scrutinize both the positive and negative suitability features of the site in order to improve the selection process as the Committee narrows candidate sites to three sites in March of 2023. To that end, we have identified the empirical criteria applicable to this process.

Our comments rely upon the following solid waste landfill location criteria:

- Deschutes County Code Ch. 13.12
- DEQ Landfill Location Guidelines
- DEQ OAR Ch. 340, Divs. 93, 94, 96
- ORS Ch. 459
- 40 CFR Part 258
- 49 U.S.C. Sec. 44718

We have also researched site and area history in the interest of determining what's already known about the specific site and the surrounding area. These sources include:

- ODFW 2019 Updated Wildlife Range Map
- COCC 2011 Capstone Paper - Rickard Road Property Management Plan
- OWRD Well Logs with Area Deepenings
- DOGAMI Surface Mining Site Logs and Des Co Records SM Site 400
- Environmental Noise Impact Study Surface Mine Re-Zoning

DEQ's location restrictions divide criteria into specific areas of concern. The following areas are directly relevant to the Rickard Road Site and will be discussed specifically:

- I. **Airport Safety**
- II. **Critical Habitat**
- III. **Sensitive Hydrogeologic Environments**

- I. **Airport Safety**

Airport Safety is relevant to solid waste landfill locations because landfills attract birds, and "collisions between aircraft and birds have resulted in fatal accidents, bird strikes pose a special danger to smaller aircraft, and landfills near airports pose a potential hazard to aircraft." U.S.C. Title 49, Pub. L. 106-181, title V, Sec. 503(a), Apr. 5, 2000, 114 Stat. 133, also referenced as 49 U.S.C. Ch. 447, Sec. 44718. These are findings by Congress.

This statute thus determined "(5) while certain mileage limits have the potential to be arbitrary, keeping landfills at least 6 miles away from an airport, especially an airport served by small planes, is an appropriate minimum requirement for aviation safety. . . ."

Section (d) Limitation on Construction of Landfills, (1) specifies "No person shall construct or establish a municipal solid waste landfill. . . within 6 miles of a public airport [if received grants and flights for less than 60 passengers]."

The Bend municipal airport is approximately 4.2 miles from the Rickard Road Site. See DIAL measurement result method. It has received federal grants for improvements and regularly serves flights of less than 60 passengers.

Air carrier operations

It is interesting to note that DEQ's administrative rules also provide a general requirement that location of municipal solid waste landfill within 5 miles of *any* airport requires special notification to the affected airport and the FAA. These rules also recognize the hazard of birds for feeding, flying, and nesting.

Location of a municipal solid waste landfill within 6 miles of the Bend municipal airport is thus not recommended. Efforts to force such a location would require extensive study and findings to refute the commonly accepted understanding that landfills near airports do not serve public safety. Such a site location selection would also require specific analysis by both the U.S. Secretary of Transportation and the Oregon Department of Aviation to justify selection of such a disfavored location.

In conclusion, selection of the Rickard Road site, so close to the Bend Airport, is not recommended.

- II. **Critical Habitat**

Landfill locations are also to be analyzed for impact on wildlife. OAR 340-094-0030, Location Restrictions, specifies that "direct or indirect alteration of critical habitat which appreciably

diminishes the likelihood of the survival and recovery of endangered or threatened species using that habitat” are not to be used for a municipal solid waste landfill. See (3)(a), (b). This provision supplements 40 CFR, Part 258. This approximately 750 acre tract is located directly north and west of over 28,000 acres of BLM land. The majority of the BLM tract is identified as Sage Grouse Habitat Area, Sensitive Bird and Mammal Habitat, and Wildlife Area. It is reasonable to conclude that these sensitive, threatened, and endangered species do not respect property ownership boundaries, and that uses proposed for adjacent properties should be considered for impacts.

The Rickard Road Site is known to provide habitat for extensive wildlife. See COCC 2011 Capstone Class Rickard Road Property Management Plan, a research paper prepared and written by COCC students specifically on the subject site in 2011, attached. This paper concluded that the County’s purpose of protecting public property from degradation was best served by preservation for recreation, with reduction of most roads. Wildlife identified was deer, elk, bald eagles, and historically, pronghorn antelope. This study, prepared by college science students, specific to the entire Rickard Road site (then 715.9 acres), provides a detailed body of information by which the site may be understood and evaluated. It is the conclusion of these 9 Forest Resources Technology students that they agree with the USDA and the NRCS that degradation of this site is not recommended, and that measures should be taken preserve the property for wildlife and limited recreational use.

Specifically, they recommend in Option A:

- Thin trees less than 21” in diameter
- Seed native grasses
- Close roads to 1.5 miles of road per square mile
- Construct parking area
- Develop a trail head
- Provide wildlife guzzler(s) as a water source

This report and the agencies it consulted place high value on the wildlife and recreational value of the Rickard Road Site.

ODFW also finds that habitat value in the area is increasing. See ODFW’s June 2019 revised map of elk and deer ranges, attached. This map has been recommended to Deschutes County for incorporation into the County’s mapping system, and the Board of County Commissioners has this month instructed Community Development Department staff to make incorporation a priority in the next work year. Andrew Walch, District Wildlife Biologist, High Desert Region, will work in cooperation with the County on this project.

This map shows that ODFW now finds updated deer winter range and elk winter range will include the Rickard Road Site, increasing prior range areas. This species habitat change is indicative of other species changes as well, and should be considered in evaluation of the Rickard Road Site.

Proximity of Sage Grouse Habitat, Sensitive Bird and Mammal Habitat, and Wildlife Areas make this location a poor choice for regulatory compliance likelihood going forward.

III. Sensitive Hydrogeologic Environments

OAR 340-094-0030(4) supplements 40 CFR, Part 258, Subpart B. Both regulations expressly prohibit landfills with sensitive groundwater supplies. The OAR states, "no person shall establish or expand a landfill. . .above a water table aquifer or other sensitive or sole source aquifer. . .where the Department has determined that:

- (a) Groundwater must be protected from pollution because it has existing or potential beneficial uses. . .
- (b) Existing natural protection is insufficient or inadequate to minimize the risk of polluting groundwater."

This provision supplements **40 CFR Part 258, Criterial for Municipal Solid Waste Landfills, Sec. 258.27 Surface Water Requirements**. It expressly prohibits Municipal Solid Waste Landfills from causing discharge of pollutants in the waters of the U.S. or causing discharge of nonpoint source pollution to waters of the U.S.

Site suitability thus relies upon understanding of surface and groundwater in the general area. Best practices dictate analysis of OWRD well logs to understand what's occurring under the surface. Because this area has become extensively settled, there are many wells in the area surrounding the Rickard Road site. See OWRD Well Report Query Results for wells in surrounding sections of Township 18S, Range 13E. The 75 wells in and around the subject site are mapped in the OWRD exhibit, with the Deschutes County tract labeled and 3 wells near the subject property that have had to be deepened due to falling water tables in the area.

This data shows that the groundwater in the area is beneficially used to the point where water levels are dropping. It has an existing and potentially beneficial use and must be protected in accordance with these regulations. A landfill may not be established above such an aquifer, so use of the Rickard Road Site is likely to violate significant regulatory requirements which it is not evidenced to be able to satisfy.

Conclusion:

Landfill siting is heavily regulated, particularly since the Knott Road landfill was sited. While it's understood that proximity to the future transfer station at Knott Road is desirable, this site does not meet the legal qualifications for a new municipal solid waste landfill and is properly eliminated from consideration.

Very truly yours,



Elizabeth A. Dickson
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Kane-Braun Submittal to SWAC

January 16, 2023

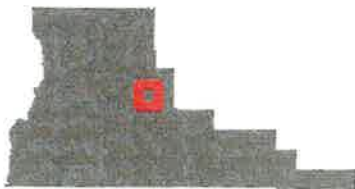
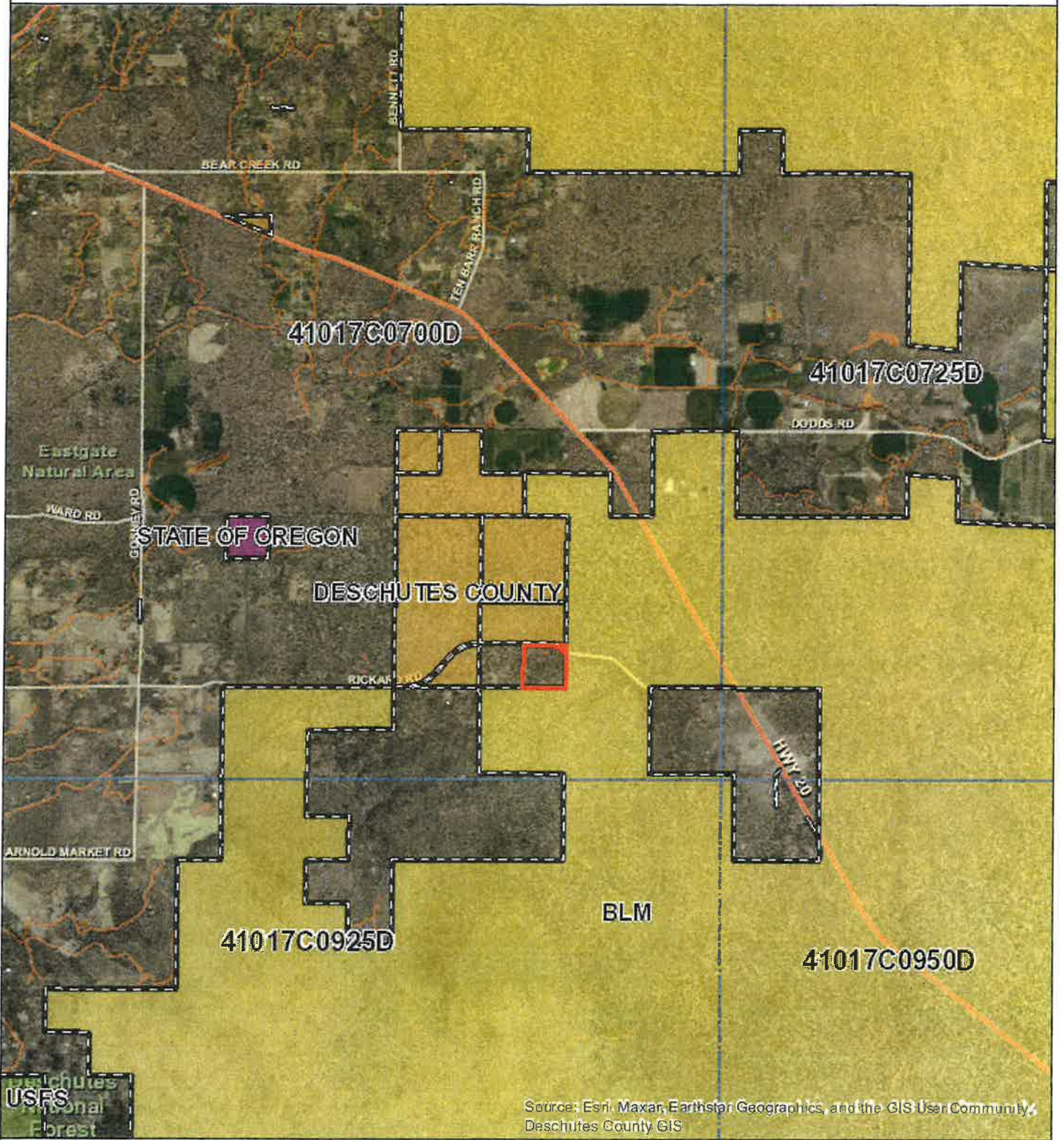
Page 5

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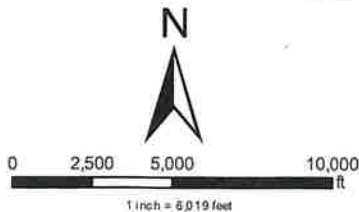
Exhibits:

1. Rickard Road Land Fill Site DIAL Aerial, with Kane - Braun property noted in red
2. ODFW 2019 Updated Wildlife Range Map
3. COCC 2011 Capstone Paper - Rickard Road Property Management Plan
4. OWRD Well Logs and Map with Area Deepenings noted

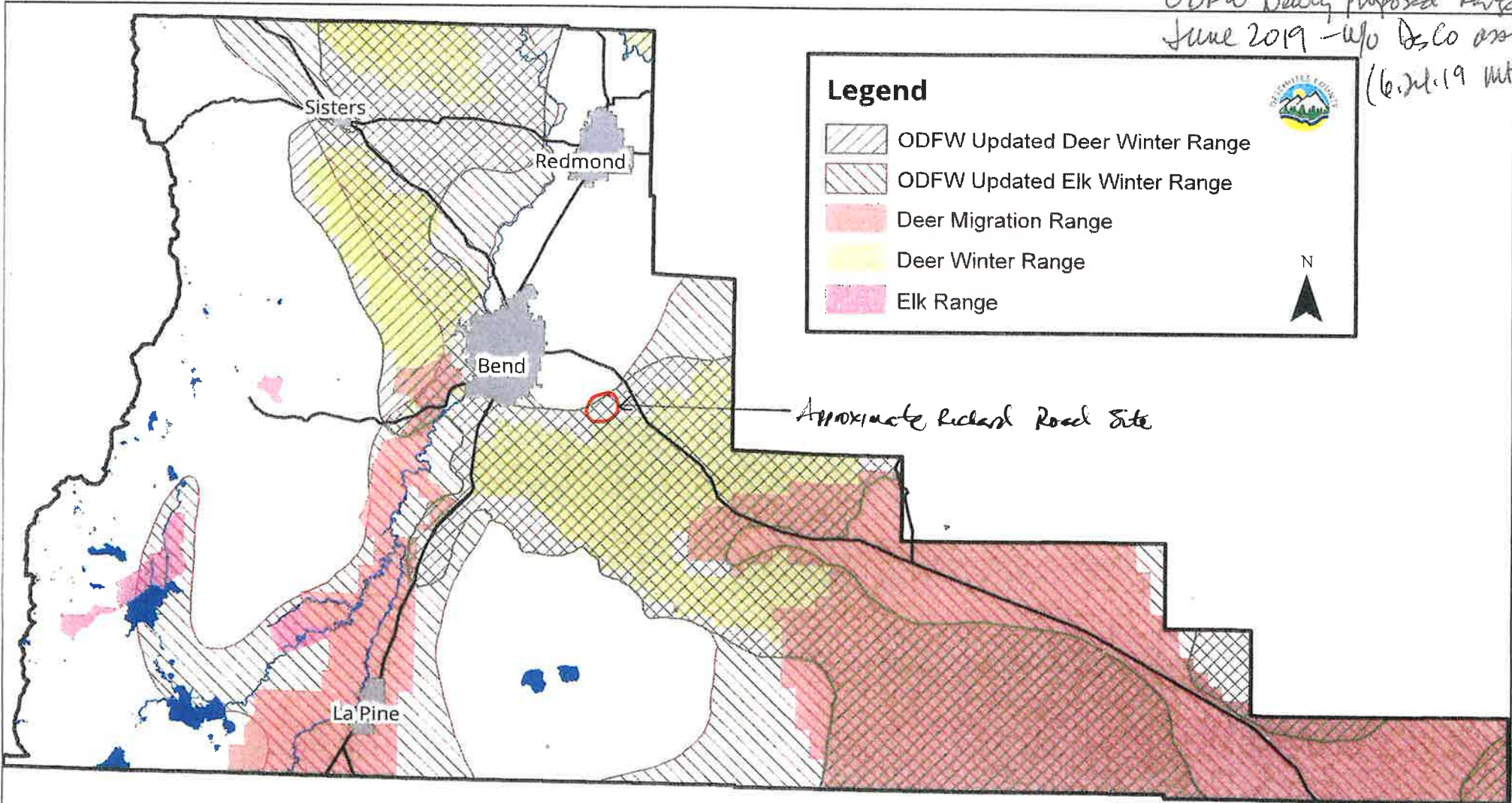
Rickard Rd Landfill Site



Date: 1/13/2023



ODFW Newly Proposed Ranges
June 2019 - w/o DesCo assist.
(6.24.19 mtg)



Notes:

- County Elk Range Inventory: 52,063 acres / ODFW Updated Inventory: 1,122,467 acres.
- County Deer Winter Range: 288,480 acres / ODFW Updated Inventory: 650,494 acres.
- ODFW is not proposing updates to Sage Grouse or Antelope habitat.
- See separate Spotted Frog critical habitat map for update.

2011 Capstone Class Rickard Road Property Management Plan



Chad Elwess, Ryan Jenkins, Luke Lassell,
Shawn Maurer, Chris Monda, Justin Osborn,
Tom Oswald, Sean Schroeder,
& Brandon Zraggen

Forest Resources Technology

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I. Objective:

The objective for the 2011 Forest Resource Capstone class was to develop a land use and management plan for the 715.9 acre Rickard Road property. The property is owned by Deschutes County and is managed as public land. After our research and data collections were complete, the following land use plan was developed.

II. Site Description:

The Rickard Road property is located approximately four miles East of Bend, Oregon near the corner of Highway 20 and Rickard Road. The property is divided into four tax lots, which are zoned as EFUAL (exclusive farm use- alfalfa subzone). The tax lot numbers, areas, and public land survey description are as follows (Zoning information: Deschutes County code):

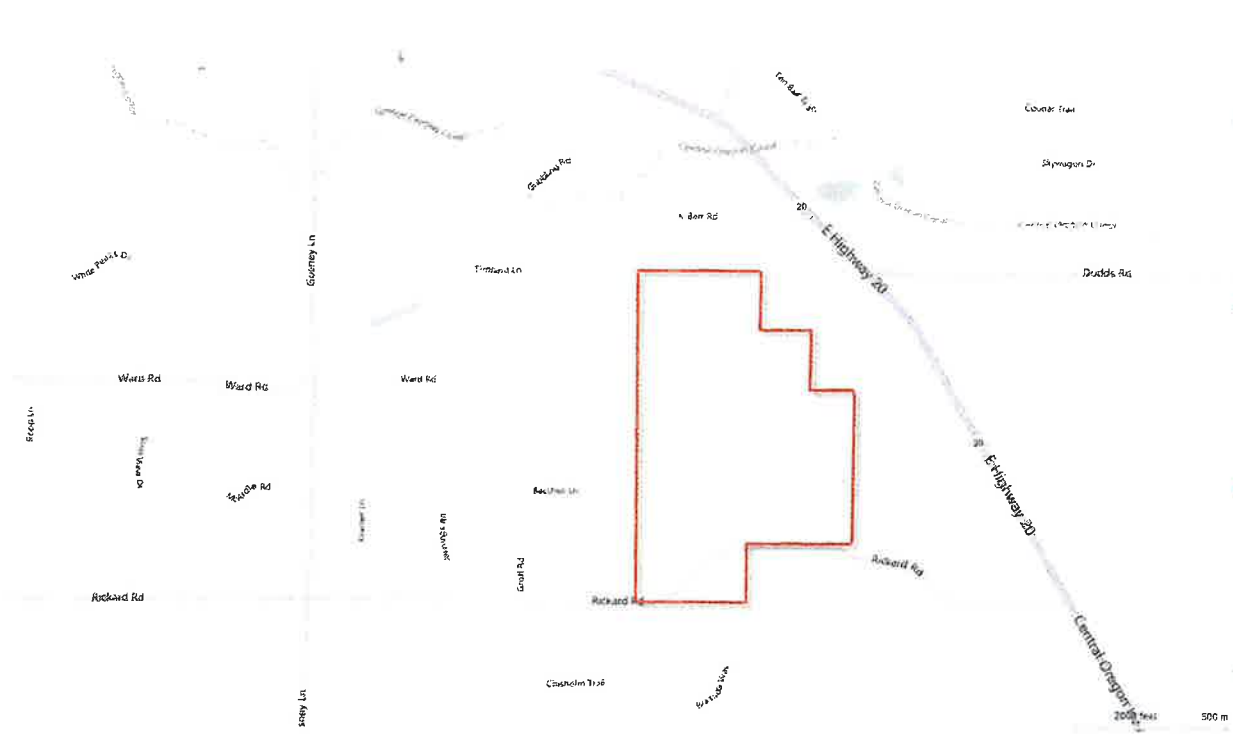
<u>Tax Lot #:</u>	<u>Public Land Survey Description:</u>	<u>Area (acres):</u>
1813000004503	N.½, SE.¼, Sec. 15, T.18e R.13s Sec.15 WBM	77.68
1813000004500	NE.¼, Sec. 15	160.68
1813000004600	W.½, Sec. 15	316.33
1813100001100	S.½, SW.¼; NE.¼, SW.¼; SW.¼, SE.¼, Sec.10	160.58

Under Chapter 11.04.020 the Rickard Road property is classified as “Vacant county land”. According to Deschutes County Code (Chapter 11.04) the following land use regulations have been put into effect for areas classified as public land (Teresa Rozic, Des. Co. Land Spec., pers. comm.) The intent of these regulations is to protect public property from degradation and vandalism.

1. Public use of County owned property will be limited to day use only.
2. No person shall damage, litter, burn, remove material, or cause any other site damage to County owned property without obtaining written permission.
3. Motor vehicle travel shall be limited to existing parking lots and roads.
4. No person or group shall exclude any other member of the public from County owned property.
5. Any County owned property may be posted closed by the County Property and Real Estate Manager.
6. All other uses of County owned property are permitted outright.

The property adjoins to private property on the North, West, and South sides and to BLM land on the East side. There are a total of 11.9 miles of primitive roads on the property as well as several access points to enter the property, which include both foot trails and two track roads. The primary access points to the property are located on the south end of property off Rickard Road; there is also one access point off of Ward Road which runs through the property and joins Highway 20.

The site is characterized by rolling terrain with rocky outcroppings. The plant community is dominated by western juniper (*Juniperus occidentalis*); there was a small amount of ponderosa pine (*Pinus ponderosa*) regeneration observed but we do not believe that it can compete with the western juniper on this site. The shrub component is composed mainly of big sagebrush (*Artemisia tridentata*) with some integration of antelope bitterbrush (*Purshia tridentata*). Native grasses such as Idaho fescue (*Festuca idahoensis*), squirreltail (*Elymus elymoides*), crested wheatgrass (*Agropyrum cristatum*), and bluebunch wheatgrass (*Agropyrum spicatum*) were also observed growing throughout the site.



III. Site History & Current Condition:

Western juniper is a tree species which is native to Central Oregon. It has grown on the site for over three hundred years; however, historical densities do not match current densities. Historically, juniper stands in the area have formed what are now known as juniper savanna (Gedney, 1999). Due to fire suppression and a lack of stand management, the stand has increased in density to a juniper forest. A juniper stand on a regular fire return interval would consist of old growth trees in a mosaic pattern and a small amount of regeneration (Tom Andrade, ODF, pers. comm.).

This site has historically been used by the public as a place for recreation (Rozic, pers. comm.). Known activities on the site include horseback riding, hiking, hunting, shooting, wildlife viewing, and a small amount of off-road vehicle use. There has been a small amount of garbage dumping observed throughout the site, but degradation to the site from these types of activities is minimal and can be mitigated with a site clean-up and the closure of roads.

The road density on the site is high- approximately 10.8 miles of road per square mile. Circumstances such as these can have an adverse affect on wildlife populations (Larry Pacenka, O.D.F.W., pers. comm.), such as promotion of noxious weed growth, and can lead to excessive soil compaction. It is recommended that the density of roads on the site be reduced to two miles of road per square mile of area (Pacenka, pers. comm.). This recommendation would involve closing approximately ten miles of roads on the site. However, this will help to reduce dumping and further site degradation. It will also promote wildlife and overall stand health.

IV. Soil Types & Concerns:

The following information was collected from a publication survey conducted and authorized by the United States Department of Agriculture (USDA) and the National Research Conservation Service (NRCS). According to the survey, the Rickard Road property is composed of three soil types: Gosney-rock with Deskamp outcroppings on a slope of 0-5 percent, Gosney-rock with Deskamp outcroppings on a slope of 5-15 percent, and Deskamp loamy sand. (Refer to soils map on page 19.)

Approximately 78 percent or 558 acres of the property consists of Gosney-rock soil with Deskamp outcroppings on a slope of 0-5 percent.

This soil was formed from ash and is common in this region. The typical soil profile is composed of two sub-surface horizons: the top 15 centimeters consists of coarse sand integrated with pieces of gravel, while the distance between 15-30 centimeters is formed by pale brown loamy sand. The pH level in this soil ranges from 6.8 to 7.3. Native plants found in this soil type are western juniper, bitterbrush, big sage, Idaho fescue, and bluebunch wheatgrass. This soil type is known for having a rapid permeability, meaning it is quickly drained of water. This soil type is also highly susceptible to wind erosion and to compaction.

Low soil fertility and cold, dry weather limit the potential for agricultural crops. Due to the susceptibility for compaction, it is recommended that large livestock be kept off this soil type. If the harvesting of timber takes place on the site, the use of skid trails is highly recommended. It is also recommended that native grass seed be scattered throughout the site to further prevent wind erosion to the soil.

Approximately 15 percent or 109 acres of the property is composed of Gosney-rock with Deskamp outcroppings on slopes of 5-15 percent slope. This soil type is located on the north side of the property and has the same characteristics and properties as the above soil type.

Approximately 7 percent or 50 acres of the property consists of Deskamp loamy sand. This soil is also formed from ash. It is brown in color and tends to have a pH of 7.0, which is neutral. This soil has a rapid permeability, but has a low susceptibility to compaction when used for recreation sites such as camping areas.

V. Stand Inventory:

All trees sampled during our cruise of the property were western juniper. According to our cruise data there is an average of 43 trees per acre and 31 sapling or seedlings (trees less than 4 inches DBH) per acre across the 715 acres. The basal area of these trees averages to be 58.7 square ft. per acre with a 95% confidence interval of ± 1.6 square feet of basal area. The volume per acre is estimated to be 483 cubic feet with a total stand volume of 345,582 cubic ft. Under a 95% confidence interval our volume prediction can potentially vary by $\pm 50,793$ cubic ft. over the entire 715 acres.

The oldest tree sampled in our cruise was 263 years old and the average age of sampled trees was 166 years old. The average ten-year growth increment of the stand is 0.31 inches. Currently, the Central

Oregon Community College (COCC) capstone class has not been able to find any literature that discusses site class on western juniper, so site class and index were not calculated for this site.

The COCC capstone class used characteristics such as lichen growth, visible rot, conks, and wildlife nests to classify old growth trees in the stand. It was found that the majority of the trees over 21 inches DBH exhibited these features, so we used this size class to separated old growth trees from regeneration. (Refer to cruise calculations in appendix.)

VI. Understory Vegetation:

The shrub and ground cover on the site is composed of big sagebrush, antelope bitterbrush, yellow rabbitbrush (*Chrysothamnus viscidiflorus*), and rubber rabbitbrush (*Chrysothamnus nauseosus*). Much of the understory is composed of mature shrubs with at least 20 percent of their mass comprised of dead material. These large shrub species occupy approximately 145 acres of the property, or 20 percent of the total ground cover.

Approximately 67 acres or nine percent of the property is occupied by native grasses and forbs, including Idaho fescue, squirreltail, bluebunch wheatgrass, and sand lily (*Leucocrinum spp.*). These are valuable forage for wildlife, as well as a desirable seed source for post-activity reclamation of the site.

Due to the low amount of annual rainfall on the site, approximately 20 percent of surface soil is unoccupied by vegetation. With proper action taken to free-up available soil water, it is believed that the percentage of desirable ground cover could be increased. (OWEB Phase II Monitoring Report, 2007)

VII. Wildland Fire & Wildland Urban Interface (W.U.I.) Recommendations:

The Rickard Road property falls under the 2006 Greater Bend Community Wildfire Protection Plan. Due to the proximity of homes to the site, an ODF assessment of risk was utilized to evaluate wildfire concerns. Managing the area along Rickard Road and the areas adjoining to private property should be a priority. (The following ratings and

conditions were collected from the 2006 Greater Bend Community Wildfire Protection Plan.)

Ratings & Conditions of Interest:

- ODF Hazard Rating of 76 (extreme)
- ODF likelihood of fire occurring of 35 (high)
- The fire return interval for western juniper woodlands is every 25 – 35.
- This property is Fire Regime Group 2 with a fire frequency of 25-35 years
- This property is a condition class 2 (missed more than one fire return interval)
- Western juniper woodland fire return interval for this site is approximately every 31 years

Rickard Road Property Wildfire & W.U.I. Recommendations:

- Homeowner Education- to provide information to adjacent landowners on the importance of defensible space (defensible space checklist)
- Create and maintain a fire resistant buffer along Rickard Road, as well as the North, West, and South boundaries of the property.
- Proposed thinning of western juniper
- Materials should be piles to add cover for wildlife or hauled off the site and used as biomass

VIII. Wildlife:

There have been several mammal and avian species observed on the site which include mule deer (*Odocoileus hemionus*), elk (*Cervus elaphus*), deer mice (*Peromyscus maniculatus*), bushy-tailed woodrats (*Neotoma cinerea*), black-tailed jackrabbits (*Lepus californicus*), cottontail rabbits (*Sylvilagus spp.*), pinyon-jays (*Gymnorhinus cyanocephalus*), western bluebirds (*Sialia mexicana*), northern flickers (*Colaptes auratus*), California quail (*Callipepla californica*), barn owls (*Tyto alba*), great-horned owls (*Bubo virginianus*), red-tailed hawks (*Buteo jamaicensis*), ravens (*Corvus corax*), sage thrashers (*Oreoscoptes montanus*), and migrating bald eagles (*Haliaeetus leucocephalus*). Historically the pronghorn antelope (*Antilocapra americana*) and resident bat (*Molossidae and Vespertilionidae families*) populations were found on the site (Bret Michalski, COCC Biologist, pers.comm), but these species have not been observed on the site.

“In most cases, juniper habitat supports greater populations of wildlife than any other habitat type in Eastern Oregon. Approximately 83 avian species and 23 mammal species use juniper woodland habitat in Oregon. The areas which receive the most attention from wildlife are old decadent trees and rocky outcropping. Protection of these habitat features is crucial to healthy wildlife populations” (Gedney, 1999).

The current state of the western juniper on the site provides valuable aspects to many species of wildlife- but proper management can promote improved wildlife capabilities. The increase in juniper density has excluded the regeneration of grasses and forbs. “An old growth stand of juniper provides the greatest value to wildlife; thinning is recommended to decrease the density of young juniper. This will provide space and water to encourage the growth of grasses and forbs” (Pacenka, pers. comm). An increase in grasses and forbs would add forage for wildlife and insects. Increase in insect populations would benefit many small mammals, bats, and avian species on the site.

If the juniper in this stand is allowed to increase in density, the benefits to wildlife will decrease. “A stand composed only of western juniper has lost a tremendous amount of value to wildlife. As a stand of juniper ages and increases in density, the juniper will successfully out-compete native shrubs, grasses, and forbs through moisture extinction” (Pacenka, pers. comm).

This habitat can be improved by implementing a thinning of the younger juniper, which has been classified as a tree which is less than 21 inches in diameter. This will ultimately increase water availability and free-up space for native grasses and forbs, which are essential as forage for wildlife. It is recommended that a water impoundment device and nest boxes be added to the site (Pacenka, pers. comm). Adding nest boxes to the site will increase cover for resident and migrating avian species. Since water is a limiting factor on the site, a water impoundment device will increase water availability to all wildlife species.

IX. Water Resources:

The stand receives an average of 8 inches of precipitation per year and nearly all of that moisture comes in the form of snow during the winter months. The early to mid-successional western juniper component takes up the majority of the surface area, as well as available surface water on the property. Research has shown that as juniper ages, it develops a fine root system in the upper 30 inches of the soil profile, which can extend laterally as much as three times the height of the tree.

“Juniper trees can produce photosynthesis very early in the spring before other plants begin to grow. On a warm April day an 18 inch juniper tree can transpire 20 gallons of water per day; in mid-summer that same tree can transpire up to 40 gallons of water per day. (1993, Bedell)

Currently there is no source of free water on the site. The closest source of free water is an irrigation canal, which is located on an adjacent property to the North and only flows for a portion of the year. It is recommended that a water impoundment device (guzzler) be added to the South end of the site; which would increase the water availability and diversity of wildlife.

X. Recreation Management:

Currently, recreation use on the property consists of target shooting, off-highway vehicle (OHV) use, horseback riding, hiking, wildlife viewing, campfires, and woodcutting. Based on our observations, there are currently 2-5 persons at one time (PAOT) recreating on the property. There are signs of illegal trash dumping, which are most prevalent on the South end of the property, near Rickard Road.

Some of the current recreation activities that are occurring on the property are having adverse affects on the land. Many unnecessary roads have been created by recreational use. Disturbance along these roads and trails allows for the encroachment of noxious weeds and high levels of compaction. Presently, there are 11.9 miles of roads, and the continuation of the fore-mentioned activities will exacerbate this problem. Campsites and campfires are a concern due to the dry conditions of the site and its close proximity to residential properties. Campsites and dispersed camping are known to cause severe compaction to this soil type. According to a soil survey performed and reported by the USDA and NRCS, it is recommended that camping and picnic areas be exempt from this site.

To reduce further degradation of the site it is also recommended that recreation be limited to non-motorized vehicle types. Road closures along Rickard Road will be beneficial to deter illegal dumping on the South end of the property. A parking area on the South end of the property could provide access for wildlife viewing and hiking use, as well as a place to post signs to inform the public of legal uses and dangers. If motorized use is allowed to continue on the site it is recommended that existing roads and trails be posted with instructions to remain on roads and trail systems only.

XI. Noxious Weeds:

There is presence of both invasive and noxious weeds on site. Limited populations of Russian thistle (*Echinops exaltatus*) and cheatgrass (*Bromus tectorum*) exist along roadways throughout the property. On the Northeast boundary, there are occasional patches of woolly mullein (*Verbascum thapsus*). Total percentage of undesirable plant species on site is less than 3 percent and not deemed to be a particular threat to the populations of native grasses and forbs on site (Dan Sherwin, Des. County, pers. comm). Where these species do exist, individual spraying or burning is recommended, followed by a no-till seeding of native species.

The key weed control strategy for this particular property would be to limit introduction of seed sources to un-invaded areas. This includes closing roads to OHV use, where mechanical treatment of western juniper is implemented. It also requires that equipment is washed and inspected before being transported onto the site.

XII. Entomology & Pathology:

There are several pathogens present at the Rickard Road site. The pathogens present affect not only the volume of the stand, but also the health and condition of the stand. Of these pathogens, juniper pocket rot, brown cubical butt rot, juniper mistletoe, and juniper broom rust are most prevalent.

Brown cubical butt rot (*Phaeolus schweinitzii*) is a conk normally found on the base of the tree bole or arising from the roots. The presence of conks usually indicates severe decay in the bole and limbs. The fungus extends up to 20 feet into the stem, making the heartwood yellow and crumbly. The spores enter trees through wounds such as fire scars and broken limbs, or by spreading between root systems. The fungus may persist for years after a tree is dead, and continue to infect other trees (Bega, 1978).

Juniper pocket rot (*Fomes juniperinus*) conks are normally found on the bottom 4 feet of the tree's bole. It attacks heartwood and dead sapwood creating stringy, hollow pockets, which compromise the structural integrity of the trees, sometimes causing mortality. This fungus also enters its hosts through wounds caused by limb breakage or fire (Nevada Forestry Division, 2008).

Juniper broom rust (*Gymnosporangium nidus-avis*) is normally found in the branches and twigs of the trees, and is evident as rounded clumps of foliage throughout the canopy. The fungus forms an orange-brown telium, which causes limbs to swell, cracking the bark and killing the cambium (Hagle, 2010).

Juniper mistletoe (*Phoradendron juniperinum*) is a parasitic, flowering plant that is embedded in the limbs of infected trees. It manifests as yellow to olive green globe-like clusters of foliage and may have pink to whitish berries present. It robs the host of water and nutrients, causing foliage to die off, but rarely killing the tree. The spores are then dispersed by wind.

The fungi mentioned are best managed by avoiding injury to the trees or by removing infected individual trees. The only treatment option for mistletoe is to either prune the infected trees or remove them (Hagle, 2010).

XIII. Carbon Credits: N/A

Carbon credits have been increasing in quantity among companies with high carbon emissions. These companies are buying or leasing land with trees and other plant materials which aid in carbon storage to offset their emissions. One carbon credit is classified as one ton of stored carbon. The price of carbon credits fluctuates with demand, but has averaged \$3.26 per ton in 2010 (Chicago Climate Exchange).

Although there is potential for carbon credits, the majority of the market relates to stand types composed largely of commercial tree species. There are also incentives in urban areas where trees create shade to reduce the amount of energy needed to cool buildings. Neither of these stipulations applies to the property.

XIV. Biomass:

Juniper is not a traditional biomass-producing tree; however new technology and need for juniper eradication is pushing the industry in this direction. "Currently Northern California is ahead of the juniper biomass curve. According to studies there are several issues surrounding potential juniper biomass extraction in Central Oregon (Steve Lawn, T2

Inc., pers.comm).” For example, juniper bark is very hairy and causes chipped biomass to be stringy; this becomes an issue when applied to the biomass extraction of plants because they are used to dry dimensional chips. Currently there are no biomass facilities in operation on the East side of the Cascades resulting in high transportation costs (loaded biomass trucks must travel to Western Oregon). With the completion of the planned biomass facility on the Warm Springs Indian Reservation, the price of transportation would be reduced dramatically and more juniper biomass operations may be feasible.

Due to habitat restoration and fire suppression goals, the potential for biomass on this site is large. However, based on volume estimations for the stand, the removal of biomass to generate a profit would not be achievable. In order to make a biomass project feasible, government incentives for enhancing wildlife, soils, water, plant community, and wildfire protection must help pay for the biomass removal. The stand varies widely in density across the entire 715 acres. A representative for T2 Inc. (biomass company based out of Sweet Home Oregon), suggested breaking the property into units where the biomass tonnage would be greatest in yield (Steve Lawn, pers. comm). Once separated, these units may be thinned according to prescription and trees may be chipped on site either in single entry or multiple entries over a few years.

The total volume of woody biomass on the property is approximately 14,124 cubic yards or 94 truckloads. Typically T2 Inc. will accept jobs when they estimate there will be biomass yield exceeding a minimum of 100-150 truckloads (each truckload approximately equal to 25-30 tons bone dry weight). If biomass is going to be used for a source of income in association with wildlife enhancement and fuel reduction thinning, highly dense portions of the property must be the focus of treatment. Fire break areas near the neighboring communities can potentially be heavily thinned producing large volumes of biomass in these specific units. Other highly dense areas can be heavily thinned as well, leaving approximately 15 square feet of basal area of old growth trees in the stand which would remain mainly on rock outcroppings.

XV. Monitoring:

On May 10, 2011, five landscape photo points were established on the Rickard Road property. The location of each point and lens directions have been recorded in the cruise and data collections protocol for future reference. Four photo points were randomly established near the corners of the property and one was placed in the center of the property. The

main objective of the photo points is to monitor the stand after treatment.

The photo points can be monitored by students in the COCC forestry program on a five year basis. These photo points will be crucial to determining the visual effectiveness of any treatments implemented on the property. These points will also indicate if further treatments to the stand are needed.

XVI. Treatment options:

The 2011 COCC Capstone Class recommends that one of the following treatment options be implemented on the Rickard Road property. The overall goals of the following options are to enhance wildlife habitat, restore the stand health to its full potential, and increase the recreational values of the property.

Treatment costs are estimates from Joe Stutler, Deschutes County Forester. The costs associated with each option are estimates; costs of treatments depend on the current market values. The thinning options are estimates for a contract thinning crew to implement the treatment and do not include profits made from a biomass treatment of the property. Treatment costs can be offset if a biomass thinning were implemented on the property.

Option A:

A heavy thinning, seeding of native grasses, full road closure, construction of a parking area with a sign kiosk, trail head, and the construction of a wildlife guzzler.

This option would have a goal of reducing the juniper cover on the site to 5 percent stocking, with the focus on the removal of younger trees (trees less than 21 inches diameter breast height or DBH) and the retention of old growth trees. A biomass thinning of the area is recommended to help offset the cost of the following treatment. Those trees that exist on rock outcrops can be left as “islands” which is historically how juniper grew on the site. This would keep old decadent trees on the site for wildlife habitat, as well as freeing-up water resources for grasses and forbs. The seeding of native grasses can be implemented to accelerate the regeneration of natural vegetation. This will help mitigate the effects of disturbance caused by the harvesting process, and reduce the chance of invasive species from taking control. With the

exception of two gates for fire control, full road closure into the site and maintenance access would eliminate further degradation of the site from traffic, illegal dumping, and ATV/OHV use (Refer to map of recommended road closures). This would also allow for the site to return to the recommended road allowance of 1.5 miles of road per square mile of land. Construction of a primitive parking area would provide a location for the public to enter the site. This area would act as a trail head for non-motorized use and a location for a sign kiosk so that the county could post rules for use of the site. Constructing a wildlife guzzler on the site would improve the habitat value of the land for wildlife, and provide the public with more opportunities to encounter birds and mammals during visits.

Implementation of this option would be the most costly option; however there are several opportunities to offset the costs with the use of grants from groups which have interests in the reduction of fuels for fire concerns, the reduction of juniper encroachment, and the improvement of wildlife habitat. This option is estimated to cost \$763,000- \$939,000; the cost breakdown is:

- Thinning:
 - Hand piling: \$330,000- 579,000 (or)
 - Lop and scatter: \$57,000- \$100,000
- Seeding of native grasses:
 - Seed: \$71,500- \$214,500
 - Spreading: \$286,000
- Closure of road entrances:
 - Rock and tank traps: \$4,000
- Parking area: \$1,000
- Fire gates:
 - Gates, fence, and installation: \$7,800
- Guzzler: \$8,500

- Signs: \$1,200

Option B:

A heavy thinning, full road closure, construction of a parking area with a sign kiosk, trail head, and the construction of a wildlife guzzler.

This option would have the same stipulations and management goals as option A. This option would have a goal of reducing the juniper cover on the site to 5 percent stocking, with the focus on the removal of younger trees (trees less than 21 inches diameter breast height or DBH) and the retention of old growth trees. A biomass thinning of the area is recommended to help offset the cost of the following treatment. Those trees that exist on rock outcrops can be left as “islands” which is historically how juniper grew on the site. This would keep old decadent trees on the site for wildlife habitat, as well as freeing-up water resources for grasses and forbs. There is no seeding involved in this treatment option, which will help to lower the cost of treatment. This treatment is estimated to cost \$262,500- \$500,000. The cost breakdown is identical to the previous option minus the cost of seeding.

Option C:

Thinning in areas of high density, seeding of native grasses, creating a fire buffer near property boundaries that adjoin with residential properties, block access from Rickard Road, signs posted at access points, reduction of roads, and the construction of a wildlife guzzler.

This option would focus on the thinning of trees only in areas of high density to produce a higher biomass yield to cover the cost of the treatment, as well as the creation of a fire buffer. With the exception of a fire maintenance gate, blocking all access from Rickard Road with materials from the site (piles of large rock that have been dumped and ripping of road entrances) would be recommended (Refer to map of recommended road closures). Signs would be posted at access points instructing users to stay on main roads, and the closure of approximately 50 percent of current roads with natural barriers (rocks) would be implemented. Introducing a wildlife guzzler to the site would improve the carrying capacity of the land for wildlife, and provide the public with more opportunities to encounter birds and mammals during visits.

Implementation of this option would be much less costly than option A. The majority of the expenses would be in labor for road

closures. As in option A, there are opportunities to offset costs with the use of grants from groups that have interests in the reduction of fuels for fire concerns, the reduction of juniper encroachment, and the improvement of wildlife habitat, as well as the sale of wood for biomass uses. This option is estimated to cost \$405,000- \$560,000; the cost breakdown is:

- Thinning and fire break:
 - Hand piling: \$30,000- \$45,000
 - Lop and scatter: \$17,000- \$20,000
- Seeding of native grasses:
 - Seed: \$71,500- \$214,500
 - Spreading: \$286,000
- Closure of road entrances:
 - Rock and tank traps: \$4,000
- Signs: \$1,200
- Guzzler: \$8,500

Option D:

Create a fire buffer on sides that adjoin with residential properties, issue firewood permits to select commercial firewood companies or charitable groups, post signs, and install a wildlife guzzler.

This option would include a fire buffer to reduce fire hazard. The sale of special firewood permits to commercial or charitable agencies that could demonstrate a basic understanding of old growth management goals would be recommended. Such agencies are known to practice responsible harvest techniques at lower costs. Posting of signs at entrance points and along roads to instruct users to keep on roads would be mandatory. The introduction of a wildlife guzzler to the site would improve the wildlife habitat. It would also provide the public with more opportunities to encounter birds and mammals during visits.

This treatment is estimated to cost \$20,000- \$35,000; the cost breakdown is:

- Fire buffer:
Hand piling: \$15,000- \$26,000
Lop and scatter: \$2,600- \$4,600
- Signs: \$1,800
- Guzzler: \$8,500

Option E:

Leave it be.

Allow the property to sit until the economy improves or until biomass facilities are available locally. At this time any one of the previous options could be implemented. This would also allow the stand to increase in density, which would yield a higher biomass volume. This option would cost nothing at this time. Future costs are dependant on the market at that time.

XVII. Recommendation:

The 2011 COCC Capstone Class recommends that the Rickard Road property be treated with option A. This option will be costly but with the help of grants and a biomass thinning the treatment could pay for itself. This option will be the most beneficial to improving overall stand health and wildlife habitat, which should be the ultimate goal for this property. This option would also restore the stand to a natural fire return interval. This property could become a model to encourage residence in area to reduce hazardous fuels and restore their properties to an ecologically sound state.

XVIII. Cruise & Data Collection Protocol:

A preliminary sample of 8 fixed, 1/5 acre plots yielded the result of a variance of 68.5. At this point we were able to determine that we needed to increase our sample size in order to get reliable numbers.

A 1/4 acre plot size was chosen with a goal of at least 60 plots to be sampled across the 715 acre property. A map of the perimeter and roads was produced using data collected with a Trimble Geo XM GPS, and

Terrasync to convert the data. Arcmap and Pathfinder office were then used to lay a grid of 66 plots, which were evenly spaced across the landscape. Each plot was assigned a coordinate (1984 NADS Oregon State Plane South) to be located by GPS during the cruise. From the 66 plots which were 1/4 acre in size, a 2.2 percent cruise intensity was calculated. From the plot centers, nested plots of 1/20 acre were established in order to calculate the ground cover of the stand. Visual estimates of each type of ground cover were recorded.

Cruise cards were produced prior to the cruise and consisted of lot number, GPS coordinates, tree number, DBH, height, a tally space for trees less than 4 inches DBH, and space for the percentage of each type of ground cover (sagebrush, bitterbrush, rabbitbrush, grasses, forbs, and other). A space was also provided for extra comments and observations.

Plot center was found with Trimble GPS units. From plot center, a radius of 58.9 feet was determined with a 100 foot cloth tape. All live junipers in the plot were measured; snags were counted separately. Diameter was taken at breast height (4.5 feet) with a Biltmore stick, and rounded to the nearest two inch class. Tree heights were measured with a relaskop then rounded to the nearest foot. Regeneration under 4 inch DBH was tallied. Visual estimates of each type of ground cover were observed and recorded.

In order to determine the age, rot characteristics, and annual growth increments of the stand, 12 western juniper trees between the diameters of 9 inches and 28 inches were destructively sampled. Cookies were then taken and aged.

Microsoft Excel was the primary source of data computation. The arithmetic average, the standard deviation, the variance, and the confidence interval were calculated using Microsoft Excel functions. The stand volume was calculated using Microsoft Excel and a volume equation which was taken from the U.S. Forest Service.

Five photo points were randomly placed throughout the stand. They are marked with a rebar stake and flagged with pink ribbon. The GPS locations and camera directions (NAD 1984) are:

Point Point #:

Location:

Lens Direction:

1.	N. 44.01156 W. 121.16028	True North
2.	N. 44.02792 W. 121.15775	True North
3.	N. 44.01750 W. 121.15645	True North
4.	N. 44.02276 W. 121.14936	True North
5.	N 44.01413 W. 121.14599	True North

(Refer to photos in appendix)

XIX. Appendix:

The Rickard Road Property: Soil Survey of Upper Deschutes River Area



Key:

<u>Soil Type:</u>	<u>Soil Name:</u>	<u>Acres:</u>
59c	Gosney-rock w/Deskamp outcropping; 0-5% slopes	558
58c	Gosney-rock w/Deskamp outcropping; 5-15% slopes	107
36a	Deskamp loamy sand	50

Photo Point #1:



Photo Point #2:



Photo Point #3:



Photo Point #4:



Photo Point #5:



Cruise Calculations:

Data Sheet

Cruise Area

Total Acreage	715
Total cruised acres	16
1/4 acre plots (58.9)	
#of plots	64
Intensity %	2.24

Shrubs

Average %/Acre

Sagebrush	16.4
Bitterbrush	2.1
Rabbitbrush	1.8
Grasses and Forbes	9.3
Noxious Weeds	2.6
Ground Cover/Acre	32.2
Total Acres Covered	230.2

Volume

Mean	133.3	Vol./Ac.	483 cu.ft.	18 cu.yd.
Median	121.7	Total Volume	345,582 cu.ft.	12,799 cu.yd.
Mode	103.8	95%CI/Acre	± 71 cu.ft.	
Min	7.0	95%CI Whole area	± 50,793 cu.ft.	
Max	339.0	BA/Acre	58.07 sq.ft 95% CI ±	1.6
Range	332.0	Total BA	41,520 sq.ft.	
SEM (S)	8.88	TPA	43 95% CI ±	6
STDEV (s)	71.04			
Variance	5046.54			
CV (%)	53.28			

Stand and Stock Table

Size Class	Volume/Acre (Cubic Feet)	Total Volume (Cubic Feet)	Stems/Acre	Total Stems
4	1.97	1410	6.50	4648
6	12.10	8651	5.69	4067
8	19.42	13888	5.25	3754
10	27.94	19977	5.00	3575
12	31.45	22487	3.81	2726
14	30.98	22147	2.69	1922
16	44.67	31941	2.88	2056
18	48.93	34983	2.81	2011
20	38.47	27505	1.81	1296
22	53.33	38134	2.06	1475
24	33.62	24040	1.13	804
26	18.78	13430	0.56	402
28	18.48	13213	0.50	358
30	22.15	15837	0.56	402
32	15.52	11096	0.31	223
34	23.76	16987	0.50	358
36	12.03	8603	0.33	238
38	2.55	1825	0.06	45
40	6.71	4799	0.13	89
42	0.00	0	0.00	0
44	9.51	6799	0.13	89
46	5.48	3919	0.06	45
48	5.47	3912	0.06	45
Total	483	345582	43	30626

Sample of "Old Growth" Characteristics

Tree #	DBH	# Characteri	Characteristics Present				C/R
			DF	RT	L	N	
1	18	3			1	1	1
2	28	3		1	1	1	
3	38	4		1	1	1	1
4	40	3		1	1	1	
5	52	3		1	1	1	
6	42	4		1	1	1	1
7	24	4		1	1	1	1
8	20	3			1	1	1
9	40	3	1		1	1	
10	38	3	1			1	1
11	28	3	1		1	1	
12	34	3			1	1	1
13	28	3	1		1	1	
14	38	4	1		1	1	1
15	40	4	1		1	1	1
16	30	3			1	1	1
17	28	3	1		1	1	
18	24	3	1		1	1	
19	26	4	1		1	1	1
20	42	3	1		1	1	
21	30	4	1		1	1	1
22	36	4	1		1	1	1
23	40	4	1		1	1	1
24	28	3	1		1	1	
25	40	3	1		1	1	
32	30	3	1		1	1	1
33	22	3	1		1	1	1
34	42	5	1		1	1	1
35	21	4	1		1	1	1
36	26	5	1			1	1
37	29	3	1		1	1	1
38	32	3	1		1		1
39	31	3	1		1	1	
40	32	3	1		1	1	1
41	28	4	1		1		1
42	23	3	1		1	1	1
43	25	3	1		1	1	
44	25	4	1			1	1
45	16	4	1			1	1
46	16	3	1		1	1	
47	38	5	1		1	1	1
48	25	5	1		1	1	
49	25	4	1		1		1
50	15	4	1		1	1	1

DF: Deeply Furrowed Bar

19

Mean DBH

26.4

RT: Rounded Top:

16

Median DBH

25

L: Lichen:

16

Most Occurring DBH

25

N: Wildlife Nest:

16

Max DBH

42

C/R: Conk/Pocket Rot:

15

Min DBH

15

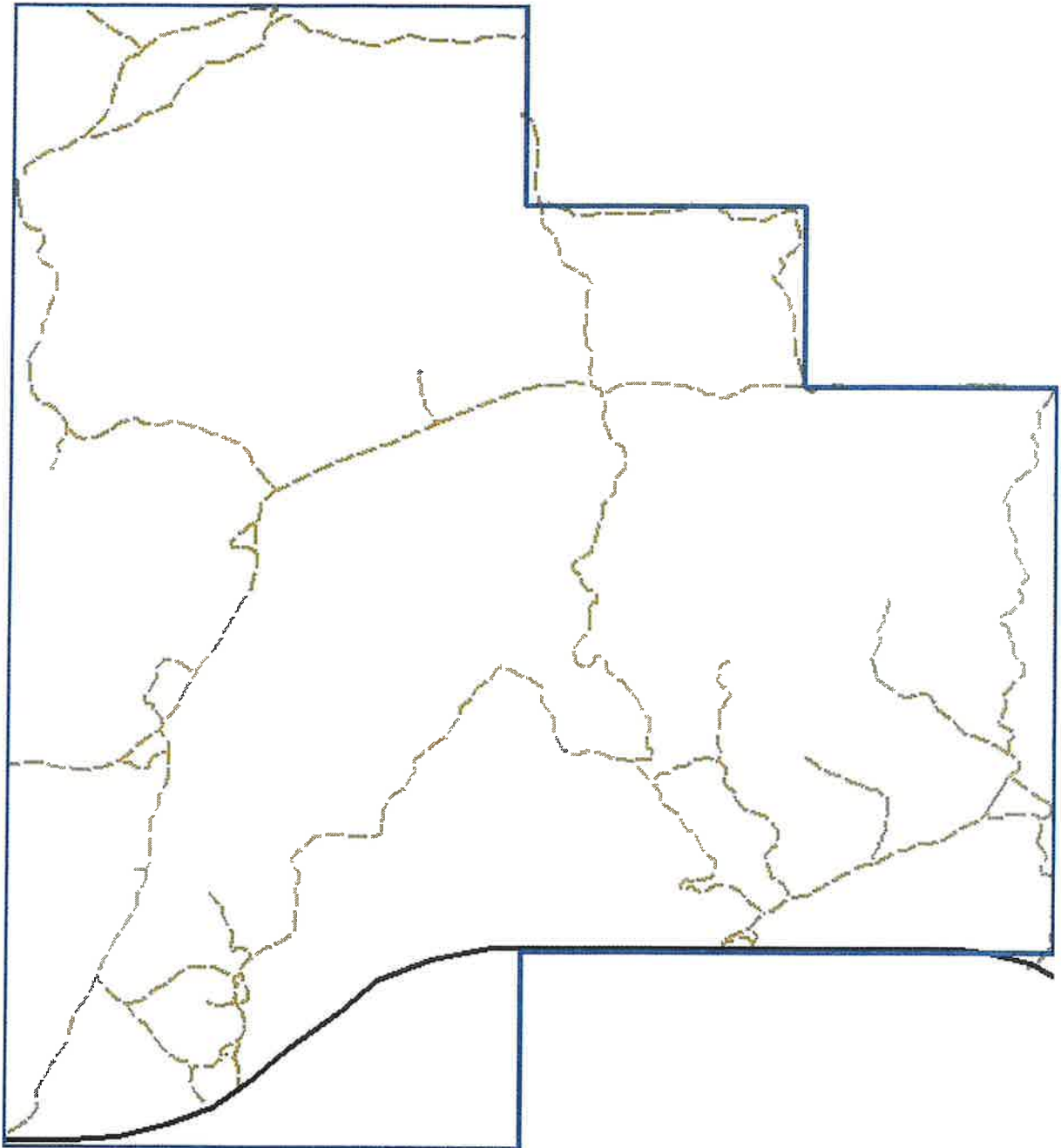
Destructive Sampling Data

Sampled Tree DBH/Age Data

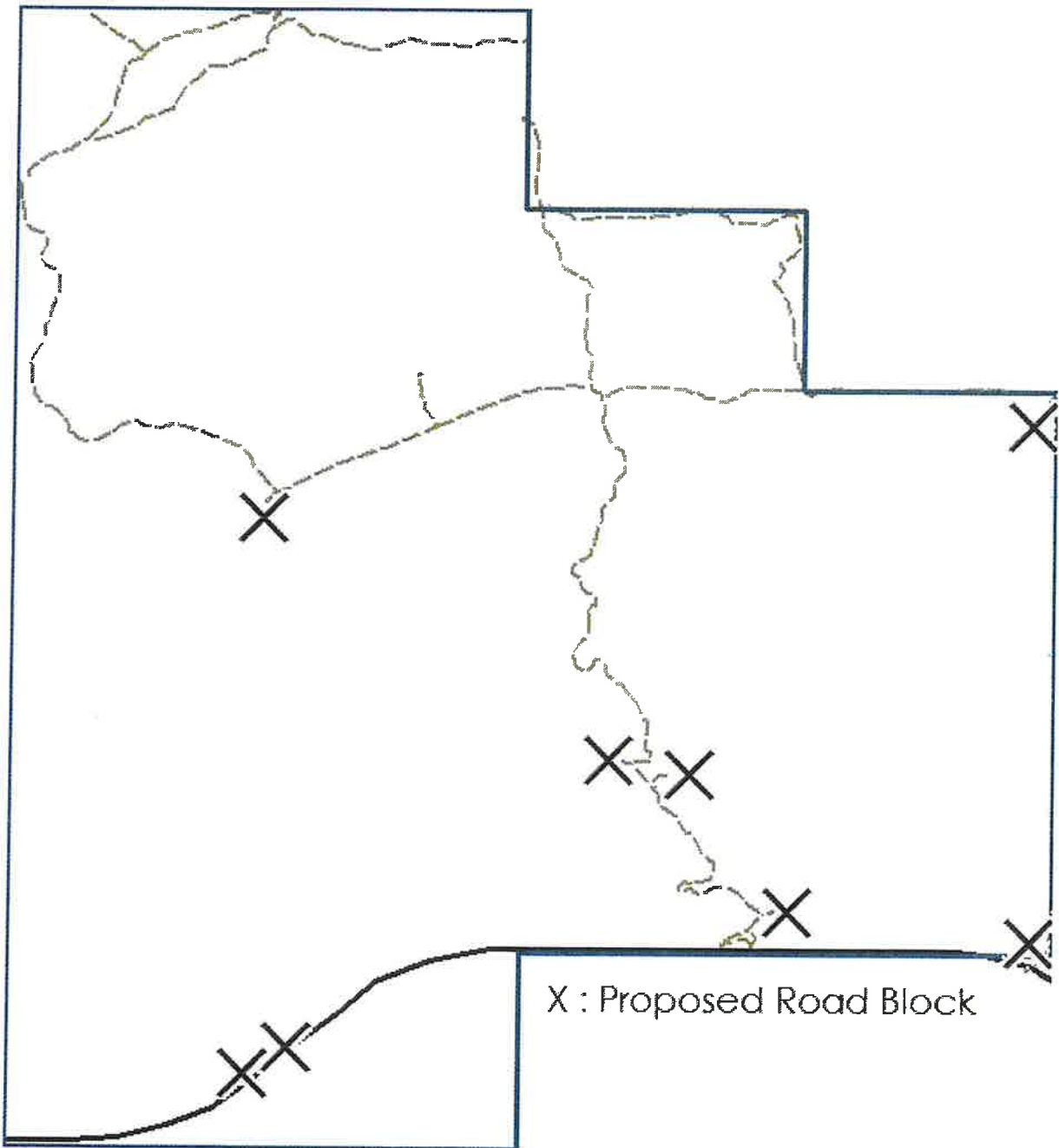
Tree #	Coordinates:	DBH:	Height:	Age:	Volume Lost to Rot (%)	Growth over last 10 ye
1: A1	N44.02671 W121.16130	6.2	23	64	N/A	19.5
6: E2	N44.01347 W121.14402	7	31	56	N/A	17.3
2: A2	N44.02671 W121.16130	12.2	30	82	N/A	23.5
7: E3	N44.01321 W121.14415	13	26	82	15	18
3: A3	N44.02665 W121.16123	18.5	31	168	20	12
11: E7	N44.02665 W121.16124	18.5	30	217	25	12
8: E4	N44.02572 W121.16155	22	26	223	35	13
10: E6	N44.02545 W.121.15478	26	19	171	15	14.2
9: E5	N44.01532 W121.14632	28	20	252	5	13
4: A5	N44.02376 W121.16212	28.5	41	247	40	14
5: E1	N44.01232 W121.14622	29	31	263	2	14
Average:		18.990909	28	165.90909	19.625	15.5

*All Age Measurements taken at DBH or 4.5' above ground.

Map of Current Site & Road Conditions:



Map of Recommended Road Closures:



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<http://www.lava5deschutes.org>

Deschutes County Code, Chapter 11.04

<http://www.co.deschutes.or.us/dccode/index.html>

XXI. Contacts:

Biomass: Steve Lawn, T2 Incorporated, Biomass Specialist, 5/5/2011

Cruise Calculations: Ron Boldenow, Central Oregon Community College, Forestry

Juniper Ecology: Bret Michalski, Central Oregon Community College, Wildlife Biologist & Forestry

Juniper Ecology: Michael Fisher, Central Oregon Community College, Forestry & Juniper Ecologist

Noxious Weeds: Dan Sherwin, Deschutes County Roads Dept., Weeds Specialist, 4/12/2011

Property Value & County Codes: Teresa Rozic, Deschutes County Land Specialist, 4/10/2011

Recreation: Timm McChesney, U.S. Forest Service, Combined O.H.V. Trail Tech., 4/6/2011

Treatment Costs: Joe Stutler, Deschutes County Forester

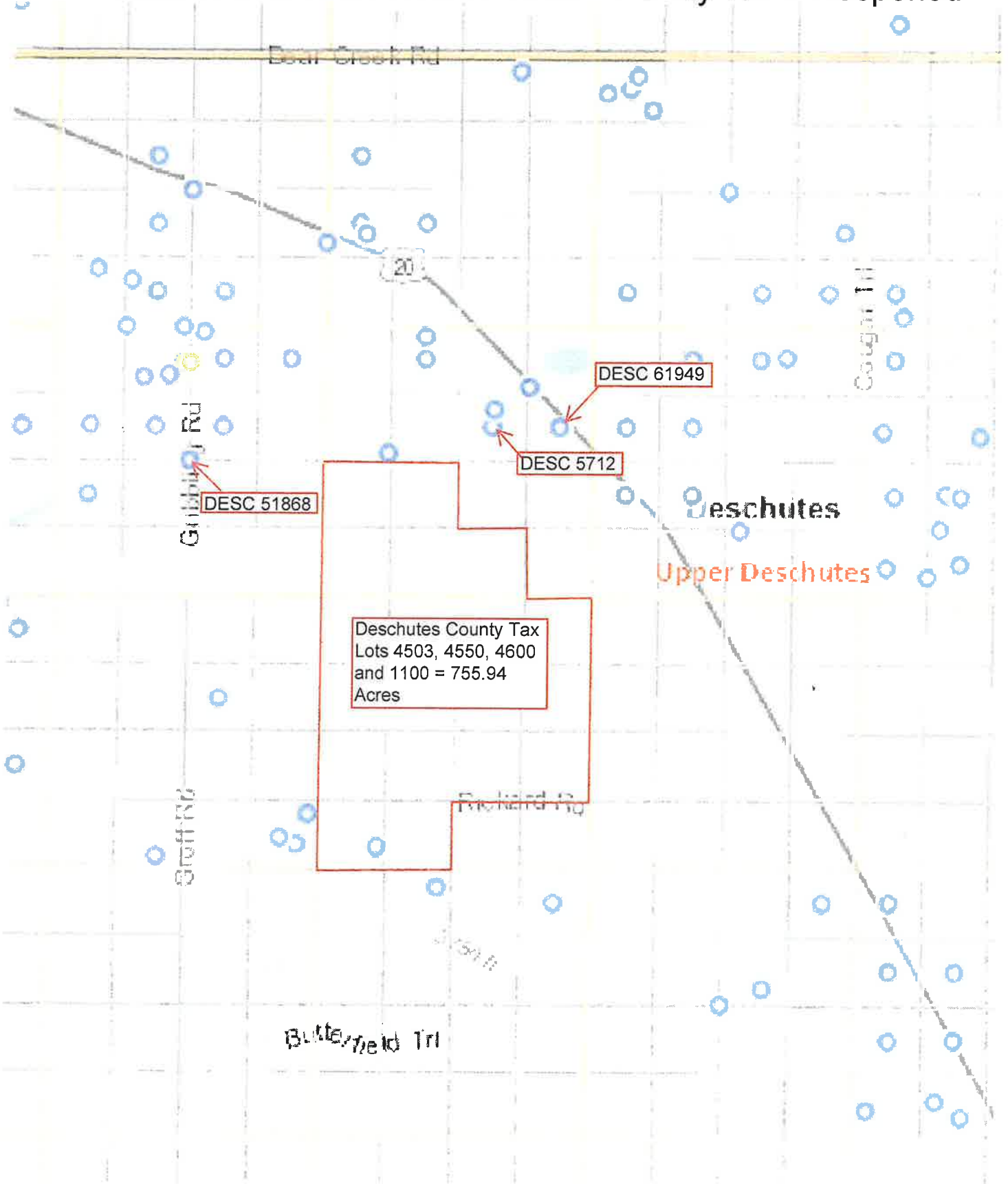
Wildfire/ W.U.I: Tom Andrade, ODF, Wildfire Specialist, 4/20/2011

Wildlife: Bret Michalski, Central Oregon Community College, Wildlife Biologist & Forestry

Larry Pacenka, Oregon Dept. of Fish & Wildlife, Wildlife Biologist, 5/5/2011

Deschutes County SWAC Landfill Site Search

Rickard Road Site / OWRD Wells / Vicinity Wells Deepened



Well Report Query Results GPS points, where available are at the far right of the table. Click link to view on map

Township: 18 S, Range: 13 E, Sections: 2,3,4,9,10,11,14,15,16,21,22,23

Well Log	Details	T-R-S/ QQ-Q	Taxlot	Street of Well	Owner	Company	Special Standards	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bonded Constructor	Startcard	Well Id #	New	Abandon	Deepen	Alteration	Conversion	Domestic	Irrigation	Community	Livestock	Industrial	Injection	Thermal	Dewatering	Piezometer	Latitude/ Longitude		
DESC 17	Details	18.00S-13.00E-9	2900	23158 WARD RD	VAN VEEN, DAN 23158 WARD RD BEND OR 97702			W	724.00	840.00	724.0	11.0	04/06/1990	05/04/1990	MAPHET, DARRELL MAPHET WELL DRILLING AND PUMP	19657	42367	✓				✓												
DESC 531	Details	18.00S-13.00E-2 NW-NW		23625 BEAR CREEK ROAD BEND	CHRISMAN, BILL 23625 BEAR CREEK RD BEND OR 97701			W	721.00	795.00	721.0		08/08/1984	11/29/1984	BROCKETT, GALE R				✓														44.0491, -121.1424	
DESC 1139	Details	18.00S-13.00E-10 SE-NW	1000	61405 K-BARR RD	KENNEL, DEL 61405 K-BARR RD BEND OR 97701			W		840.00	710.0	14.0	12/11/1991	12/19/1991	AIKEN, D	35998		✓				✓											44.0299, -121.1586	
DESC 1332	Details	18.00S-13.00E-3 NE-SW	1500	61785 TEN BAR ROAD	TURNER, DEL 61785 TEN BAR RD BEND OR 97701			W	727.00	795.00	729.0		05/13/1992	06/04/1992	JOHNSON, JOHN V	37124		✓				✓												
DESC 1373	Details	18.00S-13.00E-10 SE-NE	200	23595 E HWY 20, BEND	KERRON, DON RT 1 BOX 439 BEAVERTON OR 97007			W	745.00	800.00	745.0	18.0	06/15/1992	07/16/1992	JOHNSON, JOHN V	42442	136698	✓				✓												
DESC 1408	Details	18.00S-13.00E-2 NW-NW	111	23755 BEAR CREEK	SPARROW, BOB 23755 BEAR CR RD BEND OR 97701	SPARROW, TINA		W	740.00	780.00	724.0		07/03/1992	07/31/1992	BUCKNER, ROBERT	41949		✓				✓												44.0483, -121.1391
DESC 1734	Details	18.00S-13.00E-11 NW-SW	701	23630 E HWY 20, BEND	HOLLIBAUGH, QUINN 7220 SANAK CIRCLE ANCHORAGE AK 99504			W	723.00	795.00	722.0		05/12/1993	05/25/1993	JOHNSON, JOHN V	53872	104930	✓				✓												
DESC 5702	Details	18.00S-13.00E-2 -SE	101	23972 DODDS RD	COVEY, BURLEY 23972 DODDS RD BEND OR 97701			W	705.00	780.00	705.0	12.0	10/15/1988	11/16/1988	JOHNSON, JOHN V	6474		✓				✓												
DESC 5703	Details	18.00S-13.00E-4 NE-SE			SCHAUB, GARY 61131 HARMONY LANE BEND OR 97701			W		703.00			01/16/1981	04/01/1981	CRAWFORD, LARRY K CRAWFORD WELL DRILLING INC.			✓				✓												44.0391, -121.1777
DESC 5704	Details	18.00S-13.00E-4 NE-SW	602		SCHAUB, GARY 61731 HARMONY LANE BEND OR 97701			W	710.00	718.00	693.0	10.0	02/23/1981	03/04/1981	SCHRUNK, ALVIN SCHRUNKS DRILLING				✓			✓												44.0391, -121.1777

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Well Log	Details	T-R-S/ Q-Q-Q	Taxlot	Street of Well	Owner	Company	Special Standards	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bonded Constructor	Startcard	Well Id #	New	Abandon	Deepen	Alteration	Conversion	Domestic	Irrigation	Community	Livestock	Industrial	Injection	Thermal	Dewatering	Piezometer	Latitude/ Longitude		
DESC 5705	Details	18.00S-13.00E-4			NEWBY, DALE BEAR CREEK RD BEND OR 97701			W		401.00			03/16/1960	07/05/1960	AKINS, RICHARD DICK AKINS WELL DRILLING			✓																
DESC 5709	Details	18.00S-13.00E-10 SW-NE				PINE MOUNTAIN FARMS INC. RT 1 BOX 223 A BEND OR 97701		W		704.00			05/25/1968	06/04/1968	REED, LLOYD REEDS DRILLING			✓				✓										44.0334, -121.1481		
DESC 5710	Details	18.00S-13.00E-10 SW-NE				PINE MT RANCH FARM INC. RT 1 BOX 223 A BEND OR 97701		W	0.00	0.00	0.0		03/28/1968	03/29/1968	REED, LLOYD REEDS DRILLING			✓																
DESC 5711	Details	18.00S-13.00E-10 SW-NE				PINE MT RANCH FARM INC. ROUTE 1 BOX 223A BEND OR 97701		W		65.00			10/24/1967	11/30/1967	REED, LLOYD REEDS WELL DRILLING			✓																
DESC 5712	Details	18.00S-13.00E-10 SW-NE				PINE MOUNTAIN CATTLE CO. 23456 HWY 20 BEND OR 97701		W	785.00	875.00	785.0		11/16/1978	01/10/1979	WILLIAMS, WILLIAM D AQUA IRR DRILLING				✓	✓		✓											44.0334, -121.1481	
DESC 5713	Details	18.00S-13.00E-11 NE-NW		23975 DODDS ROAD	GROGAN, RALPH 23975 DODDS RD BEND OR 97701			W		835.00	720.0	5.0	03/01/1982	03/08/1982	BUCKNER, ORVAIL ORVAIL BUCKNER WELL DRILLING					✓		✓												
DESC 5714	Details	18.00S-13.00E-11 NE-NW			GROGAN, RALPH 3989 S HWY 97 REDMOND OR 97756			W		834.00	773.0	10.0	12/14/1979	01/02/1980	BUCKNER, ORVAIL ORVAIL BUCKNER WELL DRILLING		108092	✓				✓												
DESC 5715	Details	18.00S-13.00E-11 SW-SE		23861 DODDS RD, BEND		U.S. DEPARTMENT OF ARMY 2800 POWDER MILL RD ADELPHY MD		W	804.00	911.00	757.0	77.0	01/09/1985	01/18/1985	STADEL, CHUCK STACO WELL SERVICES INC.			✓				✓											44.0258, -121.1322	
DESC 5716	Details	18.00S-13.00E-16 SE-SE	2100	23130 RICHARD RD	MEREDITH, MR RICH 1850 SW FOREST RIDGE AVE BEND OR 97701			W	782.00	842.00	782.0	25.0	01/12/1990	02/16/1990	BROCKETT, GALE R	9622		✓				✓											44.0094, -121.1664	
DESC 5722	Details	18.00S-13.00E-22 NE-NW				ERNIE SIMPSON AND ASSOC., WAGON WHEEL DEVELOPMENT 63970 SUNSET DR BEND OR 97701		W	800.00	840.00	800.0	5.0	02/11/1978	04/12/1978	BUCKNER, ORVAIL			✓																44.0087, -121.1547

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Well Log	Details	T-R-S/ QQ-Q	Taxlot	Street of Well	Owner	Company	Special Standards	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bonded Constructor	Startcard	Well Id #	New	Abandon	Deepen	Alteration	Conversion	Domestic	Irrigation	Community	Livestock	Industrial	Injection	Thermal	Dewatering	Piezometer	Latitude/ Longitude			
DESC 8521	Details	18.00S-13.00E-11 NE-SW	600	23775 DODDS RD, BEND	CRONEN, DARYL 745 PORTLAND AVE BEND OR 97701			W	793.00	840.00	742.0	12.0	08/10/1993	09/13/1993	JOHNSON, JOHN V	53889		✓				✓													
DESC 8650	Details	18.00S-13.00E-16 SW-NE	800	61030 WARD RD	SCOTT, RICK 61030 WARD RD BEND OR 97702			W	872.00	902.00	781.0	17.0	09/08/1993	12/03/1993	BUCKNER, ROBERT	52648		✓				✓													
DESC 9783	Details	18.00S-13.00E-23	6204	22985 HWY 20 E	BROWN, SCOTT R	BROWN, DEBRA 23985 HWY 20 E BEND OR 97702		W	804.00	940.00	804.0	20.0	03/03/1995	03/20/1995	BROCKETT, GALE	54419		✓				✓													
DESC 10053	Details	18.00S-13.00E-22 NE-NE		CONASTOGA DR		AVION WATER COMP., INC. 60813 PARRELL RD BEND OR 97701		W		840.00	780.0	25.0	07/05/1995	08/04/1995	SKILES, JOHN	79544				✓				✓											
DESC 50654	Details	18.00S-13.00E-4 SE-NW	200	22980 SE HWY 20	CONNERS, PAT 22980 SE HWY 20 BEND OR 97701			W	714.00	760.00	703.0	16.0	12/05/1996	12/11/1996	AIKEN, WILLIAM D AIKEN WELL DRILLING	93007	9955	✓				✓													
DESC 50825	Details	18.00S-13.00E-11 NW-NE	400	DODDS RD	THOMAS, JOHN PO BOX 131 BEND OR 97709			W	830.00	850.00	735.0	20.0	04/02/1997	04/28/1997	SARTELLE, DAVID A FOX WELL DRILLING	98887	7536	✓				✓													
DESC 50943	Groundwater Info	18.00S-13.00E-9 SW-NW	1000	22880 HARMONY LANE	BURKE, GREG	BURKE, DEBRA PO BOX 1331 BEND OR 97709		W	786.00	825.00	726.0	10.0	06/09/1997	06/13/1997	AIKEN, WILLIAM D AIKEN WELL DRILLING	98314	9817	✓				✓												44.0314 -121.1808	
DESC 51549	Details	18.00S-13.00E-3 SW-NW	1701	61805 TEN BAR RANCH RD	FRICK, CHARLES	FRICK, LINDA 19150 PINEHURST BEND OR 97701		W	760.00	825.00	765.0	10.0	02/13/1998	02/19/1998	AIKEN, WILLIAM D AIKEN WELL DRILLING	102659	21961	✓				✓													
DESC 51632	Details	18.00S-13.00E-11 SE-NW	400	DODDS RD	THOMAS, BILL DODDS RD BEND OR 97702			W	766.00	790.00	719.0		04/15/1998	04/21/1998	DUNAGAN, DOUG JOHNSON WELL DRILLING	110404	20721	✓				✓													
DESC 51636	Details	18.00S-13.00E-10 NE-NW	400	61575 K-BARR RD	GRIBSKOV, CRAIG 61575 K-BARR RD BEND OR 97701			W	728.00	825.00	700.0	23.0	04/20/1998	04/24/1998	AIKEN, WILLIAM D AIKEN WELL DRILLING	102687	21934	✓				✓													

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Well Log	Details	T-R-S/ QQ-Q	Taxlot	Street of Well	Owner	Company	Special Standards	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bonded Constructor	Startcard	Well Id #	New	Abandon	Deepen	Alteration	Conversion	Domestic	Irrigation	Community	Livestock	Industrial	Injection	Thermal	Dewatering	Piezometer	Latitude/ Longitude		
DESC 51868	Details	18.00S-13.00E-11 SE-NW	400	DODDS RD	THOMAS, BILL DODDS RD BEND OR 97702			W		810.00	719.0		07/27/1998	08/26/1998	DUNAGAN, DOUG JOHNSON WELL DRILLING	110389	20721		✓	✓	✓													
DESC 51986	Details	18.00S-13.00E-9 NE-NE	100	61395 K BARR RD	SHERIDAN, DOUG 61395 K BARR RD BEND OR 97701			W	731.00	785.00	711.0	18.0	10/13/1998	10/20/1998	AIKEN, WILLIAM D AIKEN WELL DRILLING	114501	13657	✓			✓													
DESC 52252	Details	18.00S-13.00E-23 NE-NE	6205	23965 RICKERD RD	KUSLER, MELBERT E 23965 RICKERD RD BEND OR 97702			W	850.00	875.00	789.0	20.0	03/16/1999	03/24/1999	DUNAGAN, DOUG JOHNSON WELL DRILLING	118605	25815	✓			✓													
DESC 52455	Details	18.00S-13.00E-11 NW-NE	407	23966 DODDS RD	BARNES, ROBIN	ROUCH, PATTY 2505 NE HWY 20 BEND OR 97701		W	756.00	825.00	756.0	20.0	06/28/1999	06/30/1999	DUNAGAN, DOUG JOHNSON WELL DRILLING	118592	31678	✓			✓													
DESC 52854	Details	18.00S-13.00E-11 SW-NW	403	23770 DODDS RD	THOMAS, BILL 23770 DODDS RD BEND OR 97701			W	765.00	900.00	765.0	20.0	02/08/2000	02/24/2000	KUHN, DAVID BIG THREE DRILLING	124244	36279	✓			✓													
DESC 52864	Details	18.00S-13.00E-9 NE-NE	200	61600 GRIBBLING RD	MACPHERSON, FRANK 61600 GRIBBLING RD BEND OR 97701		✓	W	735.00	805.00	704.0	15.0	02/25/2000	03/02/2000	AIKEN, WILLIAM D AIKEN WELL DRILLING	129330	38112	✓			✓													
DESC 53898	Details	18.00S-13.00E-2 SW-SW	300	61750 COUGAR TRAIL	SAWYER, DOUG PO BOX 8088 BEND OR 97708			W	765.00	845.00	751.0	20.0	05/24/2001	05/29/2001	AIKEN, WILLIAM D AIKEN WELL DRILLING	139912	46811	✓			✓													
DESC 54298	Details	18.00S-13.00E-4 SE-NW	606	22959 HWY 20 EAST	VANOSDELL, DICK 22959 HWY 20 EAST BEND OR 97701			W	805.00	832.00	685.0	30.0	12/06/2001	12/12/2001	ABBAS, JACK ABBAS WELL DRILLING CO	142281	53061	✓			✓													44.0397, -121.1803
DESC 55045	Details	18.00S-13.00E-4 SW-SE	406	61605 GRIBBLING RD	RIPSCH, NIEL 2129 NE CARIE LANE BEND OR 97701			W	731.00	795.00	694.0	15.0	11/06/2002	11/18/2002	AIKEN, WILLIAM D AIKEN WELL DRILLING	152745	55167	✓			✓													
DESC 55063	Details	18.00S-13.00E-2 SE-SE	100	61700 COUGAR TRI RD	SCHOENBORN, MARK 61535 S HWY 97 SUITE 9425 BEND OR 97702			W	740.00	800.00	720.0	12.0	10/21/2002	11/27/2002	DAVIS, DANIEL N DRY GULCH DRILLING	151575	61676	✓			✓													

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Well Log	Details	T-R-S/ QQ-Q	Taxlot	Street of Well	Owner	Company	Special Standards	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bonded Constructor	Startcard	Well Id #	New	Abandon	Deeper	Alteration	Conversion	Domestic	Irrigation	Community	Livestock	Industrial	Injection	Thermal	Dewatering	Piezometer	Latitude/ Longitude		
DESC 55901	Details	18.00S-13.00E-11 SE-NW	405	23680 DODDS RD	SANDINE, KEN 61275 LONEKNOLLS COURT BEND OR 97702			W	782.00	835.00	760.0	15.0	03/03/2004	03/22/2004	THOMSON, JAMES AIKEN WELL DRILLING	160073	68971	✓				✓												
DESC 57159	Details	18.00S-13.00E-9 NE-NW	501	61555 GRIBBLING RD	BROWN, OWEN 2980 NW SHEVLIN MEADOWS DR BEND OR 97701			W	780.00	830.00	750.0	10.0	12/04/2005	12/19/2005	KUHN, DAVID VALLEY VIEW DRILLING	172696	76273	✓				✓											44.0341, -121.1749	
DESC 57186	Details	18.00S-13.00E-4 SE-SW	409	61664 HARMONY LANE		HARMONY LANE WATER ASSOCIATION 61664 HARMONY LANE BEND OR 97701		W	713.00	813.00	688.0	30.0	01/13/2006	01/23/2006	BUCKNER, ROBERT WESTERN WATER DEVELOPMENT	176358	80461	✓						✓										
DESC 57464	Details	18.00S-13.00E-3 SW-NW	1703	61805 TEN BARR RANCH RD	WILSON, JASON 1050 BUTLER MARKET 17 BEND OR 97701			W	754.00	830.00	690.0	5.0	06/21/2006	06/26/2006	ABBAS, JACK ABBAS WELL DRILLING CO	187540	84298	✓				✓												
DESC 57595	Details	18.00S-13.00E-9 NE-NW	500	61575 GRIBBLING RD	ACUFF, LARRY 61601 GRIBBLING RD BEND OR 97701			W	750.00	791.00	681.0	20.0	08/23/2006	08/25/2006	ABBAS, JACK ABBAS WELL DRILLING CO	181697	84263	✓				✓											44.0367, -121.1739	
DESC 57604	Details	18.00S-13.00E-3 NW-SW	1200	23220 HWY 20	COCHRAN, BILL 23220 HWY 20 E BEND OR 97701			W	710.00	810.00	685.0	15.0	08/25/2006	08/29/2006	KUHN, DAVID VALLEY VIEW DRILLING	187237	76268	✓				✓												
DESC 57886	Details	18.00S-13.00E-11 NW-SW	800	23732 E HWY 20, BEND, OREGON 97701	DOERGE, RAINER 6601 BADGER RD TERREBONNE OR 97760			W	772.00	850.00	772.0	10.0	02/22/2007	02/27/2007	MAPHET, DARRELL MAPHET WELL DRILLING AND PUMP	1000595	88297	✓				✓												
DESC 57888	Details	18.00S-13.00E-9 SW-NE	1300	61460 GRIBBLING RD BEND	KENNEL, DELL 61405 K-BARR BEND OR 97701			W	738.00	790.00	700.0	15.0	02/26/2007	02/27/2007	ABBAS, JACK ABBAS WELL DRILLING CO	1000506	86219	✓				✓												
DESC 57987	Details	18.00S-13.00E-3 NW-SW	1400	23262 HWY 20	BERGGREN, JOSH PO BOX 5995 BEND OR 97701			W	750.00	810.00	735.0	15.0	04/18/2007	05/04/2007	KUHN, DAVID VALLEY VIEW DRILLING	190745	86678	✓				✓												
DESC 58369	Details	18.00S-13.00E-9 NW-SW	2100	GOSNEY RD, BEND OREGON	BANEY, CURT 1550 N. E. WILLIAMSON BLVD BEND OR 97701			W	775.00	910.00	775.0	10.0	01/18/2008	02/21/2008	MAPHET, DARRELL MAPHET WELL DRILLING AND PUMP	1002750	90425	✓				✓												

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Well Log	Details	T-R-S/ Q-Q-Q	Taxlot	Street of Well	Owner	Company	Special Standards	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bonded Constructor	Startcard	Well Id #	New	Abandon	Deepen	Alteration	Conversion	Domestic	Irrigation	Community	Livestock	Industrial	Injection	Thermal	Dewatering	Piezometer	Latitude/ Longitude		
DESC 58569	Details	18.00S-13.00E-9 SE-NW	1200	61425 GRIBBLING ROAD, BEND, OREGON 97701	JOHNSON, MARK 1721 N.E. CACKLER LANE BEND OR 97701			W	712.00	807.00	694.0	12.0	10/16/2008	10/17/2008	BUCKNER, ROBERT WESTERN WATER DEVELOPMENT	1005386	94397	✓				✓												
DESC 58952	Details	18.00S-13.00E-11 NW-NE	300	23880 DODDS RD.	LILLESVE, JEFFREY 1850 TURNBERRY BEND OR 97701			W	780.00	810.00	760.0	10.0	03/05/2010	03/24/2010	KUHN, DAVID VALLEY VIEW DRILLING	205011	91719	✓				✓											44.0350, -121.1289	
DESC 58985	Details	18.00S-13.00E-3 NE-NE	0200	23465 BEAR CREEK RD, BEND, OR	SHERIDAN, WALT 23465 BEAR CREEK RD, BEND OR 97301			W	740.00	810.00	708.0	30.0	04/20/2010	04/26/2010	ABBAS, JACK ABBAS WELL DRILLING CO	1009876	101181	✓				✓											44.0503, -121.1489	
DESC 59334	Details	18.00S-13.00E-4	300	61010 GRIBBLING RD		ALPINE BUILDERS 61149 S HWY 97 PMB 424 BEND OR 97702		W	752.00	798.00	711.0	15.0	07/11/2011	09/01/2011	THOMSON, JAMES AIKEN WELL DRILLING	1013939	102081	✓				✓												
DESC 59486	Details	18.00S-13.00E-3 NW-SW	1100	23215 HWY 20	FAULKNER, JR PO BOX 9454 BEND OR 97708			W	733.00	812.00	704.0	20.0	05/07/2012	06/02/2012	THOMSON, JAMES AIKEN WELL DRILLING	1016429	107546	✓				✓											44.0411, -121.1633	
DESC 59838	Details	18.00S-13.00E-4 NE-SW	602	61731 HARMONY LANE	HILL, JIM 61731 HARMONY LANE BEND OR 97701			W	694.00	750.00	694.0	10.0	10/07/2013	11/04/2013	THOMSON, JAMES AIKEN WELL DRILLING	1021259	111070		✓			✓												
DESC 60215	Details	18.00S-13.00E-2 SW-SE	500	23900 SKYWAGON DR	PRICE, FRANK & SANDY 23900 SKYWAGON DR BEND OR 97701			W	765.00	860.00	763.0	20.0	03/31/2015	04/02/2015	AIKEN, WILLIAM DOUG AIKEN WELL DRILLING	1025883	117531	✓				✓												
DESC 60466	Details	18.00S-13.00E-9 NW-NE	500	61580 GRIBBLING RD BEND OR	LIPPKE, STEVE 63300 HAMEHOOK RD BEND OR 97701			W	695.00	800.00	675.0	25.0	11/20/2015	12/08/2015	AIKEN, WILLIAM DOUG AIKEN WELL DRILLING	1028913	119949	✓				✓												
DESC 60473	Details	18.00S-13.00E-16 SE-SE	2200	23150 RICKARD RD BEND OR 97702	HIGLEY, MARK & CHRIS 197 VALLYVIEW DERIVE OREGON CITY OR 97045			W	810.00	900.00	810.0	15.0	12/14/2015	12/18/2015	AIKEN, WILLIAM DOUG AIKEN WELL DRILLING	1028551	121077	✓				✓										44.0106, -121.1644		
DESC 60498	Details	18.00S-13.00E-9 NE-NW	400	22865 HIGHWAY 20NBEND, OR 97701	EICHER, JEFF & LYNN 22865 HIGHWAY 20 BEND OR 97701			W	692.00	785.00	692.0	24.0	01/20/2016	02/16/2016	BUCKNER, ROBERT WESTERN WATER DEVELOPMENT	1029453	120637	✓				✓											44.0366, -121.1781	

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Township: 18 S, Range: 13 E, Sections: 2,3,4,9,10,11,14,15,16,21,22,23

Well Log	Details	T-R-S/ QQ-Q	Taxlot	Street of Well	Owner	Company	Special Standards	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bonded Constructor	Startcard	Well Id #	New	Abandon	Deepen	Alteration	Conversion	Domestic	Irrigation	Community	Livestock	Industrial	Injection	Thermal	Dewatering	Piezometer	Latitude/ Longitude		
DESC 60690 Exempt Use Map	Details	18.00S-13.00E-10 NE-NW	300	61585 K BAR ROAD	SHERMAN, GARY 61585 K BARR ROAD BEND OR 97701			W	717.00	864.00	714.0	25.0	08/15/2016	08/29/2016	AIKEN, WILLIAM DOUG AIKEN WELL DRILLING	1031725	123092	✓				✓										44.0361, -121.1558		
DESC 60872 Exempt Use Map	Details	18.00S-13.00E-16 SE-SE	2201	23160 RICKRARD ROAD BEND OR 97701	JANECK, BRITNEY 20801 NE COMET LANE BEND OR 97701			W	827.00	906.00	824.0	15.0	05/02/2017	05/08/2017	FAGEN, NEIL M AIKEN WELL DRILLING INC.	1034209	124846	✓				✓										44.0090, -121.1652		
DESC 60998 Exempt Use Map	Details	18.00S-13.00E-3 NW-SW	1300	23260 E HWY 20 BEND	LEA, KEN 23260 E HWY 20 BEND OR 97701			W	720.00	840.00	737.0	25.0	08/08/2017	08/29/2017	AIKEN, WILLIAM DOUG AIKEN WELL DRILLING	1035654	126024	✓				✓											44.0416, -121.1603	
DESC 81041	Details	18.00S-13.00E-11 NW-SW	1201	23689 HWY 20	HOLLAND, BRIAN	PINERIVER HOMES PO BOX 3033 BEND OR 97707		W	801.00	890.00	798.0	15.0	10/11/2017	10/16/2017	ABBAS, JACK ABBAS WELL DRILLING CO	1036519	127090	✓				✓												
DESC 61098	Details	18.00S-13.00E-2 NE-SE	100	61700 COUGAR TRAIL BEND, OR 97701, BEND, OR 97701	HAMILTON, ALEC 61700 COUGAR TRAIL BEND, OR 97701 BEND OR 97701			W	755.00	894.00	755.0	25.0	01/31/2018	02/12/2018	AIKEN, WILLIAM DOUG AIKEN WELL DRILLING	1037710	61676		✓			✓											44.0417, -121.1246	
DESC 61312 Exempt Use Map	Details	18.00S-13.00E-2 NW-NW	100	23795 BEAR CREEK ROAD, BEND, OREGON 97701	BACA, DANIEL 16073 SW ALFALFA MARKET ROAD POWELL BUTTE OR 97753			W	781.00	825.00	781.0	12.0	03/29/2018	09/09/2018	BUCKNER, ROBERT WESTERN WATER DEVELOPMENT	1038169	125773	✓				✓											44.0500, -121.1401	
DESC 61442	Details	18.00S-13.00E-4 SE-SW	1000	61601 GRIBLING RD	PUZISS, BRIAN C/O STEPHEN PAYER COLDWELL BANKER BEND OR 97702			W	700.00	810.00	700.0	10.0	03/14/2019	03/15/2019	ABBAS, JACK ABBAS WELL DRILLING CO	1042175	131544	✓				✓												
DESC 61591 Exempt Use Map	Details	18.00S-13.00E-9 NW-NE	400	61588 GRIBBLING RD BEND OR 97701	KANNAL, CASEY 7566 NE CURTIS CT HILLSBORO OR 97124			W	740.00	820.00	715.0	15.0	06/03/2019	06/20/2019	FAGEN, NEIL AIKEN WELL DRILLING INC.	1043008	133096	✓				✓											44.0364, -121.1724	
DESC 61949	Details	18.00S-13.00E-10 SE-NE	202	23585 E HWY 20 DESC1373	ROUSSEAU, ALLEN 23585 E HWY 20 BEND OR 97701			W	793.00	830.00	793.0	0.0	04/07/2020	04/11/2020	ABBAS, JACK ABBAS WELL DRILLING CO	1046717	136698		✓			✓												
DESC 62355 Exempt Use Map	Details	18.00S-13.00E-10 SW-NE	101	23549 HWY 20 BEND OR	DUMOND, JANA 23549 HWY 20 BEND OR 97703			W	790.00	900.00	790.0	15.0	11/11/2020	11/25/2020	FAGEN, NEIL AIKEN WELL DRILLING INC.	1049605	140429	✓				✓											44.0322, -121.1507	

[Download Data](#)

Well Report Query Results GPS points, where available are at the far right of the table. Click link to view on map

Township: 18 S, Range: 13 E, Sections: 2,3,4,9,10,11,14,15,16,21,22,23

Well Log	Details	T-R-S/ QQ-Q	Taxlot	Street of Well	Owner	Company	Special Standards	Well Type	First Water	Completed Depth	Static Water Level	Yield	Completed Date	Received Date	Bonded Constructor	Startcard	Well Id #	New	Abandon	Deepen	Alteration	Conversion	Domestic	Irrigation	Community	Livestock	Industrial	Injection	Thermal	Dewatering	Piezometer	Latitude/ Longitude		
DESC 62577 Exempt Use Map	Details	18.00S-13.00E-9 NE-NW	300	61565 GRIBBLING RD BEND OR	PYSER, MICHEAL 2500 MAPLE AVE MANHATTAN BEACH CA 90266			W	700.00	786.00	690.0	15.0	04/16/2021	04/20/2021	FAGEN, NEIL AIKEN WELL DRILLING INC.	1051443	141797	✓					✓										44.0339, -121.1768	
DESC 63191 Exempt Use Map	Details	18.00S-13.00E-11 NE-NW	400	23770 DODDS RD, BEND, OR 97701	THOMAS, ALLISON 23770 DODDS RD BEND OR 97701			W	789.00	900.00	789.0	15.0	01/31/2022	02/13/2022	FAGEN, NEIL AIKEN WELL DRILLING INC.	1055252	145347	✓					✓										44.0343, -121.1366	
DESC 63394	Details	18.00S-13.00E-2 NW-NW	200	23755 BEAR CREEK RD BEND OR	SPARROW, ROBERT 23755 BEAR CREEK RD BEND OR 97701			W	747.00	912.00	747.0	10.0	05/11/2022	06/01/2022	FAGEN, NEIL AIKEN WELL DRILLING INC.	1056415	146639			✓		✓												
DESC 63713	Details	18.00S-13.00E-9 NE-NW	ROW	GRIBBLING RD		DESCHUTES COUNTY ROAD DEPT 61150 SE 27TH STREET BEND OR 97702		G		41.50			10/05/2022	10/07/2022				✓	✓														44.0347, -121.1734	
DESC 63714	Details	18.00S-13.00E-9 NE-NW	ROW	GRIBBLING RD		DESCHUTES COUNTY ROAD DEPT 61150 SE 27TH STREET BEND OR 97702		G		31.50			10/05/2022	10/07/2022				✓	✓														44.0348, -121.1738	

[Download Data](#)

January 16, 2023
Deschutes County SWAC
Re: proposed site 181315

To the members of the SWAC Committee,

I'd like to start off by thanking you for your time, energy and investment in this process so far. Each of you as stakeholders bring valuable research and experience to the decision-making table.

I have three major points of concern I would like to address for the Rickard Road site, 181315:

- Each Site's Preliminary Data
- County's Goals and Objectives
- Lack of transparency

1. Preliminary data

I have pored over the data from each site in an attempt to understand the scoring criteria for each characteristic. The following table was created to analyze the sites side-by-side; specifically, to compare each site's total score with the number of 1's received (on the scale of 1-5, 1 being the worst).

<u>Site Number</u>	<u>Total Score</u>	<u>Total number of 1's received</u>
181300	3.83	8
181315	3.82	14
181400	3.67	N/A
151200	3.63	N/A
151300	3.55	14
191400-200	3.54	7
191600	3.50	9
222200-200:	3.50	8
211900	3.35	10
222200-400	3.30	9

201500-300	3.29	9
212000	3.25	10
191400-2400	3.27	11
191400-3300	2.95	12

Based on your data above, the Rickard site scored second highest across all characteristics (3.82), but is tied for having the most 1's. A large portion of these low scores occur in important yet very low-weighted characteristics (residential, proximity to drinking wells, unstable area/poor foundation). How does a site with the highest proportion of bottom-ranking scores land in the highest portion of preferential sites?

2. County's Goals and Objectives


Per your website, you have posted the [County's 2023 Goals and Objectives](#). In the document, you outline 5 key components of focus and value:

1. Safe Communities: Protect the community through planning, preparedness, and delivery of coordinated services.
2. Healthy People: Enhance and protect the health and well-being of communities and their residents
3. A Resilient County: Promote policies and actions that sustain and stimulate economic resilience and a strong regional workforce
4. Housing Stability and Supply: Support actions to increase housing production and achieve stability
5. Service Delivery: Provide solution-oriented service that is cost-effective and efficient.


Using the above data for each site, along with your stated goals and objectives, I find it impossible that the committee could, in good faith, recommend a landfill to be on Rickard Road. The scoring identifies major characteristics of concern, and that would be in direct opposition to what your stated values and goals are as a public entity.

3. Lack of transparency

As one final concern, I would like to address my concern regarding transparency around this process. During the Landfill Siting Kickoff Meeting, held April 21st, it was shared that the public outreach goals were as such:



Public Outreach Goals



- Be transparent
- Share information Countywide
- Engage underrepresented communities
- Listen and provide opportunities for feedback throughout the siting process
- Use multiple engagement tools and methods

If transparency had been prioritized and stakeholder feedback valued:

- Explanations for removal of sites south and west of Bend would have been provided
- More than 12 stakeholders would have been interviewed and thus, there would have been more feedback around valued characteristics
- Your “communications plan”, as outlined in the August 15th presentation, would have included ALL residents within a one-mile radius of a potential site (not just adjacent land owners)
- You reference a survey stating Deschutes County residents want to keep “the landfill in-county.” Was this an actual, statistically-valid survey, or, a poll?

I appreciate your review of these concerns and hope you will remove site 181315 from further consideration.

Kind Regards,

Amanda Gylling, M.A.T.

FY 2023 Goals and Objectives

Mission Statement: Enhancing the lives of citizens by delivering quality services in a cost-effective manner.

Safe Communities: Protect the community through planning, preparedness, and delivery of coordinated services.

- Provide safe and secure communities through coordinated public safety and crisis management services.
- Reduce crime and recidivism and support victim restoration and well-being through equitable engagement, prevention, reparation of harm, intervention, supervision and enforcement.
- Collaborate with partners to prepare for and respond to emergencies, natural hazards and disasters.

Healthy People: Enhance and protect the health and well-being of communities and their residents.

- Support and advance the health and safety of all Deschutes County's residents.
- Promote well-being through behavioral health and community support programs.
- Help to sustain natural resources and air and water quality in balance with other community needs.
- Continue to support pandemic response and community recovery, examining lessons learned to ensure we are prepared for future events.

A Resilient County: Promote policies and actions that sustain and stimulate economic resilience and a strong regional workforce.

- Update County land use plans and policies to promote livability, economic opportunity, disaster preparedness, and a healthy environment.
- Maintain a safe, efficient and economically sustainable transportation system.
- Manage County assets and enhance partnerships that grow and sustain businesses, tourism, and recreation.

Housing Stability and Supply: Support actions to increase housing production and achieve stability

- Expand opportunities for residential development on appropriate County-owned properties.
- Support actions to increase housing supply.
- Collaborate with partner organizations to provide an adequate supply of short-term and permanent housing and services to address housing insecurity.

Service Delivery: Provide solution-oriented service that is cost-effective and efficient.

- Ensure quality service delivery through the use of innovative technology and systems.
- Support and promote Deschutes County Customer Service "Every Time" standards.
- Continue to enhance community participation and proactively welcome residents to engage with County programs, services and policy deliberations.
- Preserve, expand and enhance capital assets, to ensure sufficient space for operational needs.
- Maintain strong fiscal practices to support short and long-term county needs.
- Provide collaborative internal support for County operations with a focus on recruitment and retention initiatives.

January 17, 2023

Solid Waste Advisory Committee
Deschutes County

Dear Committee,

My name is Dr. Keith Harless. I am a retired pulmonary disease specialist having practiced here in Bend for 35 years. Also, I live within a one mile radius of the proposed Knott landfill replacement just north of Rickard Road

I strongly object to this, or any other residential site even being considered as the new 100 year landfill. In fact, I am shocked that it was even considered at all. Oh, perhaps, shocked is too strong of a word because, of course Deschutes County owns the land. But shocked is the correct word because the site is adjacent to residential neighborhoods. In fact, it is the only site, by your own description, that the adjacent land is zoned as existing residential and in the future planned residential. Currently, within a one mile radius there are 100+ homes.

Excuse me; you are considering that a 100 hundred year landfill be placed immediately adjacent to a growing residential area.

I must remind you that landfills are potentially dangerous to those inhabitants living around them. There has been a growing volume of medical literature documenting the hazards to residents living with 1 – 3 miles of a site. This includes various forms of cancer and, particularly in children, an increase in respiratory disease as well as other illness.

In addition there are clearly documented concerns of air, water and light pollution. The aquifer in this area flows north. Any leakage could contaminate Bend, Redmond and Madras groundwater. Can you guarantee 100% there will be no leaks from the landfill. If you can't you put at risk these additional thousands of people drinking water.

And, we all know Bend and the Deschutes County are growing. It is also recognized that Bend will largely grow east. Thus, there will be many more residents living near the Rickard site.

Landfills have no place being situated near residential areas. You have other and better options.

I believe it to be unconscionable of you even to consider recommending the replacement landfill be near either Rickard or Bear Creek Road.

Don't propose a solution that creates a significant and bigger problem.

Respectfully,

A handwritten signature in blue ink that reads "Keith W Harless". The signature is written in a cursive style with a large initial "K".

Keith W Harless, MD

January 16, 2023

Dear SWAC,

Thank you for your time and effort spent on this important project. I oppose putting the landfill at site #181315 (Rickard Rd.) or any other site that impacts Deschutes County residents. I am concerned about negative health effects that accompany living near a landfill. I am also concerned about dust, smell, noise and declining property values.

We purchased bare land nineteen years ago and had a beautiful home built on it. There is no way we would have considered buying or building a home here if we had known a landfill would be built nearby.

The committee should focus on sites that won't impact Deschutes County residents.

Thank you.



Jerry Ohlson
60555 Ward Rd.
Bend, Oregon 97702

January 15, 2023

Julia Ohlson
60555 Ward Rd.
Bend Oregon, 97702

To the SWAC:

I am writing this in strong opposition to proposed landfill site -181315 (Rickard Rd.)

A landfill is known to be harmful to residents, health, well-being and property values. It is unimaginable that this site or any site that would be by neighborhoods is even being considered.

I expect the committees to recognize the weight of the importance of residents is of more importance than the 'haul distance to waste centroid'.

Thank you.



Julia Ohlson

January 16, 2023

To SWAC,

I am writing to voice my opposition to the proposed site of a landfill at Rickard Rd. #181315.

This area is next to neighborhoods. No landfill should be built close to homes.

The negative health effects have been proven in many studies and also the fact that home values drop by landfills.

matthew Ohlson

Matthew Ohlson

60555 Ward Road
Bend, Oregon

Tim Brownell

From: daniel bacametal.com <daniel@bacametal.com>
Sent: Monday, December 26, 2022 2:13 PM
To: managethefuture
Subject: New Landfill

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[EXTERNAL EMAIL]

To the solid waste committee

My name is Daniel Baca. My wife and I oppose the proposed landfill site ID 181300 off Bear Creek Road. We live on an adjacent property to the proposed site. Our family home is on this property, a home that we built with our own hands. Our drinking water is supplied by an underground well, like most of the other properties border the proposed site. We have a number of concerns and questions regarding the site chosen for the landfill as detailed below.

Considering water, your committee has only given a 1/4 mile buffer for the wells supplying drinking water, yet you have given a 3 mile buffer for the sage grouse exclusionary zones. Why were all the people living, eating, sleeping and drinking, (the same concerns that impact the sage grouse) only given a 1/4 mile buffer compared to the 3 mile one given for the sage grouse? Don't get me wrong, we are very much in favor of the preservation of wildlife and their habitat. We regularly have multiple species of wildlife come to our property from the adjacent property, including Eagles, Osprey, owls, coyotes, rabbits, elk, deer and others. Our property and neighborhood also houses many old growth Junipers; some of them hundreds, if not thousands of years old. We believe the amount of construction, operation traffic, and noise would negatively impact the wildlife and habitat living in and around the neighborhood and adjoining BLM.

Why did you choose 100 years for the operational longevity of the new proposed site? That seems to be a shortsighted approach to how we would deal with our waste. In 100 years, our children and grandchildren and their kids would be dealing with these problems we have left them. Why are you not taking an integrated approach to waste management? Why are you not trying to deal with this on a more regional, State, and Federal level, instead of our current county approach that was used at Knott landfill? A massive site that only lasted 50 years? Knott landfill was started in the early 70s when nothing was in the surrounding area to it. Along Bear Creek Road alone, there are multiple original homesteads from 1915 and before, showing that people have been living and using the land on Bear Creek Road for multiple decades; even before the current landfill was ever built. Everyone around Knott landfill made a choice to live in that location. We have not been given a choice, instead you're forcing this new location potentially on us.

In Deschutes County, 80 to 90% of the waste is not created to the east of Bend, so why do we get 80 to 90% of the trash? Would it make more sense to have a facility somewhere on the highway 97 corridor, where most of the trash is generated? This corridor also already has established trucking and rail routes in place. In regards to trucking, if this is a 100 year plan, there should be consideration for future electric and alternative powered transportation like hydrogen or methane, potentially produced at your facility.

If cutting trucking costs is a high priority, there is a property directly to the south of Knott landfill, right on the other side of Rickard Road, currently for sale. Why is this not even being considered, when it is 453 acres and bordered by additional county land?

The amount of smell, noise, traffic and light pollution introduced to our neighborhood is detrimental. A neighborhood that includes firefighters, nurses, police officers, farmers, ranchers, commercial fishermen, plumbers, electricians and an equestrian center that work with veterans with PTSD just to name a few. We are your neighbors that live in this community, that care for you and put food on your table. Why would you treat your neighbor like this and subject them to a landfill in the middle of their neighborhood?

Daniel Baca
541-706-1990
23795 Bear Creek rd
Bend OR 97701

Tim Brownell

From: daniel bacametal.com <daniel@bacametal.com>
Sent: Wednesday, December 28, 2022 4:55 PM
To: managethefuture
Subject: Landfill

Some people who received this message don't often get email from daniel@bacametal.com. Learn why this is important <<https://aka.ms/LearnAboutSenderIdentification>>

[EXTERNAL EMAIL]

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Daniel Baca

541-706-1990

<https://ddec1-0-en-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=www.bacametal.com&umid=0cae678d-155e-49b2-956f-4791f7ddded9&auth=3a6cefd7cdb77cbc38f6a1a69c8cebbc63caa0ec-4d8a75a60294b52a7649279d8421394b95ff8604>

Chad Centola

From: T&C Plumbing & Construction Albin <tncplumbingconstruction@gmail.com>
Sent: Sunday, January 15, 2023 3:46 PM
To: Chad Centola; solidwaste; managethefuture
Subject: Landfill Opposition for site 181300

Some people who received this message don't often get email from tncplumbingconstruction@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Dear SWACC,

I am a property owner 23470 Bear Creek Rd.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting, and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. This parcel is rated by the SWAC as among the least 'environmental quality' in the county.

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

I 100% oppose you putting this landfill in our backyard, or anyone else's for that matter. I ask, would you want it by your house? Let's look to the future and put the landfill, where it doesn't impact people's property values and Quality of life. I am very disappointed in the secrecy of initial site selections. I think this entire thing STINKS!

Craig D. Albin

Tim Brownell

From: Chad Centola
Sent: Friday, January 13, 2023 7:05 AM
To: Gary Clark
Cc: managethefuture
Subject: RE: Proposed Rickard Rd. Landfill

Good morning Mr. Clark-

Thank you for submitting comments on the County's Solid Waste Management Facility (SWMF) Siting process. Your input and concerns will be documented as part of the project and shared with the County's Solid Waste Advisory Committee (SWAC) at an upcoming meeting. They will also be shared with the Board of County Commissioners. The currently identified sites have been assessed through a set of Broad Area Screening Criteria, which involved assessing sites through a general set of criteria including environmental and land use restrictions, identified hydraulic/geologic hazards, and screened through general information including cultural and archeological assets. The process to this point has used broad scale regional mapping information and GIS resources to identify areas with specific land use and wildlife restrictions, geologic areas of concern, wetlands and storm water floodplains prohibitions that may be unsuitable for a future SWMF.

The following steps provide a general outline as to the siting process that will take place over the next 18 months:

1. Over the next few months, the project team will be conducting detailed site-specific research (referred to as Focus Area Screening) on each candidate site to determine if specific environmental, land use, natural resource, engineering or economic characteristics may make a site unsuitable for the SWMF.
2. In March 2023, following Focused Area Screening, we anticipate there will be 3-5 sites identified, for which further, more extensive evaluation and analysis will be conducted over the following year.
3. The project team will be hosting an Open House to review the finalist sites on April 6, 2023. More information including time and location will be determined closer to that date.
4. It is anticipated that a final site recommendation will be made by the SWAC to the Deschutes County Board of County Commissioners (BOCC) in the Spring of 2024.
5. The approval of the SWAC's recommendation by the BOCC is the first step of a more extensive and formal public process which will include distribution of land use application documents to permitting authorities and public hearings administered by the Community Development Department for land use authorization with a recommendation to the BOCC, as well as a process under the auspices of the Oregon Department of Environmental Quality for facility permitting.

If you are interested in following the site evaluation process, please submit a request to solidwaste@deschutes.org to be added to the Interested Parties List. With that, you will receive SWAC meeting notices, project updates and other information.

If you have any questions or additional comments, please feel free to submit an email to managethefuture@deschutescounty.gov.

Be Safe. Stay Healthy.



Chad Centola | Director

DESCHUTES COUNTY DEPARTMENT OF SOLID WASTE

61050 SE 27th Street | Bend, Oregon 97702

Tel: (541) 322-7172 | Fax: (541) 317-3959

chadc@deschutes.org | www.deschutes.org/solidwaste

Quality Services Performed With Pride

From: Gary Clark <naclassics@usa.net>

Sent: Friday, January 13, 2023 6:48 AM

To: managethefuture <managethefuture@deschutescounty.gov>

Subject: Proposed Rickard Rd. Landfill

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[EXTERNAL EMAIL]

This is to indicate my concern that you are considering putting a landfill on Rickard Rd. That is very close to existing housing, and is a recreational area we use frequently. There are very few such on the east side that haven't already been compromised by development and/or poor usage. Please look hard for a better alternative.

--- Gary Clark, 60375 Sunridge Dr., Bend



Julia A. Follansbee
Attorney at Law

January 9, 2023

Tim Brownell, Incoming Director
Deschutes County Department of Solid Waste
61050 SE 27th Street
Bend, Oregon 97702

VIA EMAIL

Re: New landfill; proposed Site ID 181300 (Bear Creek and Cougar Trail/Skywagon Drive Neighborhoods)

Dear Mr. Brownell:

This letter concerns an airport SWAC has not disclosed in the immediate vicinity of the COID land proposed as a possible new County landfill site, ID 181300. This airport, known as Juniper Airpark, is State and County recognized and regulated. Designated by State Identifier 5 OR 5, Juniper Airpark is owned by Ronald Braatz, Julia Follansbee, and Gary Bell, residents of the Cougar Trail/Skywagon Drive Neighborhood. Juniper Airpark is a private use airport with four hangars. The presence of its Airport Safety Combining Zone both very near to and within the proposed landfill site constitutes a “fatal flaw” in SWAC’s rating of this site as the highest among the latest proposed sites. In fact, it must be eliminated as a potential landfill site due to land use compatibility requirements.

Easily found in the County’s online DIAL system, the COID site contains at least three parcels: (1) COID tax account 151738 (756 acres); (2) COID tax account 151737 (120 acres); and (3) COID tax account 151781 (40 acres). As shown in the DIAL system, these three parcels are partially or wholly within Juniper Airpark’s Airport Safety Combining Zone. DCC 18.80.040. At least 20 rural properties, including these three COID parcels, are encompassed by this zone. “The purpose of an AS Zone is to restrict incompatible land uses and airspace obstructions around airports in an effort to maintain an airport’s maximum benefit. . . . Incompatible uses may include . . . uses . . . that might intrude into areas used by aircraft.” DCC 18.80.010.

The County must follow its own code regarding airports, including private airports, within Deschutes County. Moreover, private use airports like Juniper Airpark are a matter of state concern as well. ORS 836.608(1). The State of Oregon *requires* that Oregon counties regulate their airports, including private ones, as a matter of state law. ORS 836.608(2). The Airport Safety Combining Zone described in Deschutes County Code 18.80 encompasses a wide range of DCC code provisions regulating private activities and development in and around the Zone.

The 40-acre COID parcel is directly in the *approach surface* for Juniper Airpark. See DCC 18.80.022E. Any landfill located below this approach surface will be extremely dangerous for potential bird strikes as planes are landing and taking off on the runway (the “primary” surface).

A LEGAL CONSULTING FIRM

61510 Cougar Trail Bend, OR 97701 Phone (541) 318-5991 Fax (541) 318-5981 Email: juliafollansbee@appealaid.net

And, the provisions in DCC 18.80.020 apply to approach surfaces. Juniper Airpark's approach surface "expands uniformly to a width of 450 feet for that end of a private use airport with only visual approaches. *The approach surface extends for a horizontal distance of 2,500 feet at a slope of 20 feet outward for each one foot upward.*" DCC 18.80.022L.4. In short, precisely where the footprint of the landfill at this site encompasses the entire 40 acres, there are planes landing or taking off, directly overhead. Moreover, "[a]s it relates to bird strike hazards, 'significant' means a level of increased flight activity by birds across an approach surface or runway that is more than incidental or occasional, considering the existing ambient level of flight activity by birds in the vicinity." DCC 18.80.022EE. There is no doubt that there will be an increase in the ambient level of flight activity by birds in the vicinity of this proposed landfill. Therefore, a landfill site situated within Juniper Airpark's approach surface or near its runway is a significant hazard to this private airport. In fact, it is a significant hazard to Juniper Airpark's entire Airport Safety Combining Zone with its downwind flights toward the approach surfaces at each end of the runway.

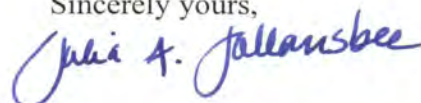
As for the number of airplanes using this private airport, in 2021 a Deschutes County transportation planner stated that Juniper Airpark is limited to only 10 take-offs and landings per week, relying upon the 1979 conditional use permit for Juniper Airpark, CU 79-53. But, for 29 years, that has not been the case. On December 31, 1994, Juniper Airpark had three or more airplanes registered with the Department of Transportation. This made it necessary for Deschutes County to include Juniper Airpark in its planning documents and provide it with an Airport Safety Combining Zone. ORS 836.608(2); DCC 18.80.010. Additionally, Deschutes County must allow for the growth of uses in private use airports as specified in ORS 836.616, which include more takeoffs and landings. ORS 836.608(3). This means more airplanes contending with more birds, both in the approach surface and the runway. Some of these planes may be for emergency medical flight services, *as has occurred at Juniper Airpark*, and for law enforcement and firefighting activities. ORS 836.616(2)(b)&(c).

Therefore, it should come as no surprise to anyone involved in this search for a new landfill site that Sanitary Landfills are not permitted land uses where there is an Approach Surface. DCC 18.80, Table I. Further, although Deschutes County has denied that Juniper Airpark has a Runway Protection Zone ("RPZ"), the County itself has queried neighbors at 24166 Dodds Road immediately adjacent to Juniper Airpark whether they are within 3,000 feet of Juniper Airpark's RPZ. This garage remodel project subject to the County permitting process is nowhere near Juniper Airpark's approach surfaces, as is proposed landfill site ID 181300.

Further impacts to airport safety include outdoor lighting, glare, industrial emissions such as dust or smoke, and any kind of electrical interference with navigational signals or radio communications between an airport and aircraft. *See* DCC 18.80.044B, C, D, & E.

Thank you for your attention to this serious roadblock, which should constitute a "fatal flaw" and eliminate this site from further consideration.

Sincerely yours,

A handwritten signature in blue ink that reads "Julia A. Jallausbee". The signature is written in a cursive style with a large initial 'J'.

Tim Brownell

From: Dawn <deswack@gmail.com>
Sent: Tuesday, January 17, 2023 10:45 PM
To: Tim Brownell
Cc: managethefuture
Subject: Follow Up — Re: Proposed Landfill Sites - Rickard Road

You don't often get email from deswack@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Hi Tim,

Following up on my open questions below from last week. Can you please reply at your earliest convenience with answers?

Additionally, I'd like to request that the concerns I've raised below are all added to the public comments record for consideration.

Thank you,

Dawn Swackhamer
971.201.8479

On Jan 9, 2023, at 12:08 PM, Dawn Swackhamer <deswack@gmail.com> wrote:

Hi Tim,

Thank you for your timely response - much appreciated. As I've been thinking more about this site proposal I have few additional concerns I'd like to share and some open questions I hope you can answer.

Concerns:

- Safety - specifically in the event of a fire or explosion at the landfill site - is that being taken into consideration? In my research I came across several instances of fires (as recent as Oct '22) and even a YouTube video of explosions. So knowing this isn't just something that "could happen" but rather "does happen" it is important to me the County is considering our safety and for any sites located close to so many people has an emergency plan for responding.
- Badlands Protected Area - the site off Rickard is very close to the protected Badlands area and this feels like it could compromise that safe space with environmental impacts such as methane gas, disturbance of migration patterns of deer, harm to the ancient Juniper trees, the list goes on....

- I'd like to re-emphasize a point I made in my previous email regarding the potential risks related to the methane and ammonia that comes from landfills. Researching this further brought to light the impact is very broad as it touches on air quality and water contamination. With so many people living so close to this site how will the county mitigate those risks?

Open Questions:

1. Are there maps of the sites that include greater road-level detail? The only map I could find was in a PPT used on 11/15 and that map was pretty light on details.
2. If a map with the info in question 1 isn't available is there a list of the GPS coordinates or specific addresses for the proposed sites that I can see?
3. Is there a more informative site available than the one that has just Meeting Minutes (<https://www.deschutes.org/solidwaste/page/solid-waste-advisory-committee-meetings-swmf>) ? Looking for a place that clearly lays out all the data citizens would need to see to fully understand the project, potential sites, process, and next steps.

Thank you for your help.

Dawn Swackhamer
971.201.8479
Butterfield Trl Resident

On Fri, Jan 6, 2023 at 4:47 PM Tim Brownell <Tim.Brownell@deschutes.org> wrote:

Good afternoon Ms. Swackhamer,

Thank you for submitting comments on the County's Solid Waste Management Facility (SWMF) Siting process. Your input and concerns will be documented as part of the project and shared with the County's Solid Waste Advisory Committee (SWAC) at an upcoming meeting. The currently identified sites have been assessed through a set of Broad Area Screening Criteria, which involved assessing sites through a general set of criteria including environmental and land use restrictions, identified hydraulic/geologic hazards, and screened through general information including cultural and archeological assets. The process to this point has used broad scale regional mapping information and GIS resources to identify areas with specific land use and wildlife restrictions, geologic areas of concern, wetlands and storm water floodplains prohibitions that may be unsuitable for a future SWMF.

The following steps provide a general outline as to the siting process that will take place over the next 18 months:

1. Over the next few months, the project team will be conducting detailed site-specific research (referred to as Focus Area Screening) on each candidate site to determine if specific environmental, land use, natural resource, engineering or economic characteristics may make a site unsuitable for the SWMF.

2. In March 2023, following Focused Area Screening, we anticipate there will be 3-5 sites identified, for which further, more extensive evaluation and analysis will be conducted over the following year.
3. The project team will be hosting an Open House to review the finalist sites on April 6, 2023. More information including time and location will be determined closer to that date.
4. It is anticipated that a final site recommendation will be made by the SWAC to the Deschutes County Board of County Commissioners (BOCC) in the Spring of 2024.
5. The approval of the SWAC's recommendation by the BOCC is the first step of a more extensive and formal public process which will include distribution of land use application documents to permitting authorities and public hearings administered by the Community Development Department for land use authorization with a recommendation to the BOCC, as well as a process under the auspices of the Oregon Department of Environmental Quality for facility permitting.

If you are interested in following the site evaluation process, please submit a request to solidwaste@deschutes.org to be added to the Interested Parties List. With that, you will receive SWAC meeting notices, project updates and other information.

If you have any questions or additional comments, please feel free to submit an email to managethefuture@deschutescounty.gov.



Tim Brownell | Incoming Director
DESCHUTES COUNTY DEPARTMENT OF SOLID WASTE

61050 SE 27th Street | Bend, Oregon 97702

Tel: (541) 317-3177 | Cell: (831)324-2652

tim.brownell@deschutes.org | www.deschutes.org/sw



Enhancing the lives of citizens by delivering quality services in a cost-effective manner.

From: Dawn Swackhamer <deswack@gmail.com>
Sent: Friday, January 6, 2023 4:36 PM
To: managethefuture <managethefuture@deschutescounty.gov>
Subject: Proposed Landfill Sites - Rickard Road

[EXTERNAL EMAIL]

Hello,

I'm reaching out to provide some feedback as a property and home owner near the Rickard Rd potential landfill site.

My family and I moved here last June and were not aware of this potential liability being proposed near our home. As I am sure you are aware, a landfill virtually next store to an established neighborhood will immediately lower our property values due to increased traffic, smell, the smoke from the burning (haven't there been many accidental fires as well? - so safety is an issue), and noise to name a few. I imagine the county has no plans to compensate those of us that will see our home values fall - or am I incorrect? Either way, outside of the value loss, many of us choose to live where we do for the distance from noisy infrastructure, the closeness to nature, the quiet and solitude - all of which are compromised or negated completely if a landfill is put in place.

I'd like the decision makers in this instance to consider the many negative impacts to my family and the other families in our neighborhood and surrounding neighborhoods. Based on the proposed sites there are other options for the site that are not butted up against established neighborhoods - please put more consideration towards those sites to ensure the most limited negative impacts for all.

In summary, I again want to highlight the negative impacts of putting a landfill on the Rickard Rd site:

- Loss of property value
- Noise increases significantly
- Increased traffic in an area not designed for it
- Significant changes to the livability of the neighborhoods we all chose
- Air quality will be compromised
- Safety concerns considering the unplanned fires already at the Knott site
- Smell

Thank you for your consideration.

Dawn Swackhamer

23435 Butterfield Trail

Bend, OR 977021

971-201-8479

Tim Brownell

From: Kathie McLaughlin <KathieM@rabc1.com>
Sent: Tuesday, January 10, 2023 10:10 AM
To: managethefuture
Subject: Landfill 181315 Rickard road

[Some people who received this message don't often get email from kathiem@rabc1.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

I understand the city would like to put a landfill in my backyard.

I have numerous concerns over the safety and health issues of a landfill going into any community.

1. This is a community with a shared Well.

There is no other water source. Many who live in the Bend already have concerns over water shortages. To risk putting this water source in Jeopardy is extremely irresponsible.

2. Most homes range from 700,000 to well over a million in value . You're asking this community to take a major loss on the most expensive purchase they will make in their life time. Also making it extremely difficult to get buyers. Because NO ONE wants to live in a community with a landfill.

3. Bend is a recreational area.

This particular community draws a great number of locals and tourist who enjoy bicycling , horse riding , motorbiking , ect.

With all the numerous large trucks and added vehicle's on the road a landfill would diminish not only the road safety aspect but also create air and noise pollution to this beautiful recreational area.

4.

Numerous animals migrate through this community, leaving them also at risk.

NO ONE wants a landfill in their Community.

NO ONE wants to raise their family near one.

NO ONE should have to worry every time they drink a glass of water from the community WELL that it's become toxic.

NO ONE should have to lose the value of their homes because of a landfill is literally in their backyard.

Landfills just don't belong in communities.

Thank you ,
Kathie McLaughlin

Tim Brownell

From: Kent Cramer <kent@goodhomeoregon.com>
Sent: Tuesday, January 10, 2023 9:04 AM
To: managethefuture
Subject: Strong Objection to the proposes Rickard Road Landfill site

Some people who received this message don't often get email from kent@goodhomeoregon.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Please acknowledge my families strong opposition to this location as a potential site for the landfill. Many options could exist which are not near neighborhoods and would not pose the risks and financial implications this site would.

Traffic, groundwater contamination, air quality, noise, light pollution and more exist as damaging implications from this choice to surrounding neighborhoods.

Please take this into consideration in reviewing sites.

Kent Cramer

Kent Cramer
Owner | President
Good Home Mortgage + Real Estate with a Purpose!
P. 541.408.7191
F. 541.610.1862
<https://www.facebook.com/goodhomeoregon/>
<https://www.instagram.com/goodhomeoregon/>

NMLS: 206015 | 1663922



Tim Brownell

From: Shena Ercanbrack <ercanbrackshena@gmail.com>
Sent: Tuesday, January 10, 2023 8:15 PM
To: managethefuture
Subject: Deschutes County Landfill Facility Siting

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[EXTERNAL EMAIL]

DATE: January 10th 2023

TO: **Chad Centola Deschutes County Department of Solid Waste**

SUBJECT: Site Selection Criteria

PROJECT NUMBER: 553-2509-009

PROJECT NAME: Deschutes County Landfill Facility Siting

Dear Chad Centola and Committee Members,

I am formally writing to voice my ***strongest opposition*** to the proposed site of a new

Landfill Facility Siting in **Millican, Oregon. Specifically SITE ID: 191400-3300,**

Site ID: 151300 and SITE ID: 201500-300

After much consideration and research of the Tech Memo from your consulting firm Parametrix, it seems that there are many reasons a different location should be chosen.

#1 Site Characteristics

A) Questionable topography to due sandy soils and lack of proper silts and clays to provide a non-permeable layer for leachate contamination.

B) Distance and drive time from transfer stations and the big hill over Horse Ridge will increase the carbon footprint of the project. The road is quite dangerous in the wintertime.

C) Higher elevation by nearly 1000ft increases the amount of snow and the temperatures are generally 20-30 degrees colder than Bend. This could possibly affect daily operations and equipment use.

D) Danger to the Aquifer under the Millican Valley.

#2 Natural Environments

A) Threatened and Endangered Species: the Millican Valley is within the Wildlife Combining Zone that includes the Antelope Migration Zone and is adjacent to the North Paulina Deer Winter Range.

B) The Greater Sage Grouse habitat extends throughout the whole Millican Valley.

C) Endangered Bald and Golden Eagles live and hunt in the Millican Valley year-round.

#3 Land Use

A) There are many user groups that use the Millican Valley.

a) Paragliders(Pine Mountain is one of the best spots in the state).

b) OHV (off-road vehicles) trail system is already in place and heavily used.

c) Designated shooting range is in The Millican Valley and is heavily used.

d) Mountain bikers and hikers are a heavy user group.

e) Pine Mountain Observatory is a huge asset for the county and would be negatively affected by light pollution from the facility.

* In the future, The Millican Valley will no doubt become the next high-profile recreational destination area for Deschutes County users as other local state parks and recreational areas become inevitably overpopulated.

B) The proposed site will be too close to the community of residents that inhabit the Millican Valley. Obvious concerns being noise pollution, light pollution, odor pollution, and traffic pollution all will contribute to the degradation of the surrounding area. These proposed landfill sites will severely impact the quality of life for the residents of Deschutes County.

C) The site proposal is a poor choice because of the high impact on the visual scenic landscape and there is no way to conceal this type of facility in big open terrain.

D) There are many cultural heritage sites in the Millican Valley:

1) Pictographs at the head of the Dry River Canyon.

2) The Millican Wells are an ancient stopping ground for Native Americans traveling from Glass Buttes to collect obsidian; the University of Oregon has an extensive collection of artifacts from the site and there is still standing infrastructure as well left over from the settling of the valley 100 years ago. All of these areas are within close proximity to the proposed sites(1-3miles).

Of the 13 other proposed sites, it appears that the already established transfer site in Redmond would be the obvious choice to due the close proximity and the fact that it is also in an established industrial area.

In closing, I hope that you will consider all of these factors in your choice to NOT put the proposed Deschutes County Landfill Facility Siting in MILLICAN, OR. Choosing this site will degrade the quality of life the Deschutes County residents deserve to have in the next 100 years and beyond. The importance of the MILLICAN VALLEY cannot be overstated for the natural, cultural and environmental resources this beautiful landscape provides our community. PLEASE consider my voice and the voices of many other people in Central Oregon and Deschutes County who need this natural area for the benefit of their health and that of future generations.

Thank you for your time and consideration.

Sincerely,

Shena Ercanbrack

(541) 588-0108

19093 River Woods Dr.

Bend, OR 97702

Best Regards,
Shena Ercanbrack
Bend OR
541 588 0108

Tim Brownell

From: Wendy Mader <wendy@cahyacenter.org>
Sent: Tuesday, January 10, 2023 3:49 PM
To: managethefuture
Subject: No Landfill in our Neighborhood PLEASE!

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[EXTERNAL EMAIL]

Hi - my name is Wendy Mader and I own Cahya Center. I'm likely one of the closest houses / homes / properties / businesses to your proposed landfill site in the neighborhood near parcel 181315.

PLEASE DO NOT PUT A LANDFILL IN OUR NEIGHBORHOOD (or any existing neighborhood for that matter!).

I run a healing center on my property, Cahya Center (www.cahyacenter.org <<https://ddec1-0-en-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=http%3a%2f%2fwww.cahyacenter.org&umid=4781d490-28ae-4782-96e0-9fac144d0476&auth=3a6cefd7cdb77cbc38f6a1a69c8cebbc63caa0ec-4d57d1f894a5b2e4107abe0f53e28705acfc9957>>). I specifically purchased this property because it is on the outskirts of town, it is serene, it has amazing wildlife (see the picture of the bald eagle I took on the same site!), and Mother Nature is all around. This is also a great investment for me and my future as long as you don't put a landfill directly behind my beautiful home and property!

This seems a bit crazy to me that anyone would even consider putting a landfill in the middle of our neighborhood with all of the proven health risks, environmental risks, the guarantee of plummeting house and property values, etc.

There are other sites on your list that won't instantly impact hundred of homes and families. Bend is such a caring and loving place. . . please be aware that this will absolutely destroy our homes / businesses / properties and lives.

Sincerely, Wendy Mader

Tim Brownell

From: Paul Patrick <imptogo@yahoo.com>
Sent: Tuesday, January 10, 2023 7:25 AM
To: managethefuture
Subject: Proposed Rickard rd. refuse site

Some people who received this message don't often get email from imptogo@yahoo.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

It has come to my attention that Deschutes County has been reviewing sites for the future open pit land fill. On this list one of the highest scoring sites is on Rickard rd. right across the street from my driveway.

I am looking forward to you the County to explain to me how a site bordered on 3 sides with residential housing could score so high.

I have been driving past the current land fill for over 40 years. I have seen the refuse blown all over the surrounding properties: Including a public school. I have seen the thousands of Ravens flying in and out of the site, sometimes dropping their catch outside of the fence. I have watched the 10s of thousands of Starlings fill the air above the site and well outside its boundaries. I know that you poison the Starlings and they do not die within the landfill boundaries. The smell of rotting refuse filling the air. Let us not forget the ever burning flair that does not burn hot enough to break down the toxic gasses that the rotting biomass makes. There are many studies that have already been completed that show the adverse effects on the health of humans that live near open pit refuse dumps

The noise pollution will have devastating effects on our sheep and our two Border Collie herding dogs will not survive the blasting and other construction noises.

In a one hundred year plan I wonder why this site is a prime consideration. In the short term Bend will be the growth hub for Deschutes County. Growth south of Bend will not be a factor since the is so little developable land in south Deschutes County. By mid-century Mt. Bachelor will be almost snow free. Winter sports will be all but forgotten. The planning for the future growth between Bend, Redmond and Sisters is already being seen. Just look at all the commercial growth around Hwy 97, Hwy 20/22 and Cooley road area. Costco is moving Walmart has tried for over 20 years to move out of south Bend. The Oregon Department of Transportation is finally going to fix the mess at Cooley road.

The future growth in this neighborhood and the fact that Bends city limits will soon extend to this area mean more people will be impacted by this site.

So as a resident with only 40 feet of asphalt between myself and an open pit refuse pit. Please enlighten me to some of the Counties thoughts on why this site is such a viable site.

The physical and financial health of the families that live on three sides of this site far out weigh any benefits that the garbage companies and Deschutes County might see in this site.

Looking forward to your response to my concerns.

Paul C. Patrick
1-541-294-0422
imptogo@yahoo.com

Tim Brownell

From: Cathie Vollmer <chattycatvollmer@gmail.com>
Sent: Tuesday, January 10, 2023 2:33 PM
To: managethefuture
Subject: Subject: SWAC/Rickard Road Site #181315

Some people who received this message don't often get email from chattycatvollmer@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

CC: genevollmer@icloud.com

My name is Gene Vollmer and I live on Jennings Road which parallels Gosney Road and intersects with Rickard Road about one-half mile south of my property. From this point it is approximately one and one-half miles east to site 181315.

You can add my name to the list of homeowners in my community who are adamantly opposed to the concept of establishing what would amount to a huge open air garbage dump in close proximity to our homes.

The primary reason for my opposition is the lessons I have learned in the past about how property values are influenced by surroundings.

During a long career as an executive for a large financing firm I evaluated many proposals to finance commercial properties, primarily auto dealership facilities.

I learned that the best loans to put on your books were those involving new construction on land with a clean Phase One and Phase Two report. There is limited risks on this kind of a loan assuming there are no problem properties nearby such as active or inactive landfills on other commercial operations that produce a large volume of pollutants.

I also looked a a large number of proposals to finance existing dealership facilities. Older existing facilities can present problems, particularly if they have in ground lifts and storage tanks which invariably develop leaks. This type of loan carries risk but it can be mitigated if the borrower is willing to replace faulty equipment and perform necessary remediation. Prospective borrowers generally did the clean-up required because they often received pressure from neighbors who didn't want their properties values compromised when it became known that there was a problem property nearby.

One category of loan that I and other lenders tried to avoid was one where the building to be financed was on or near land that was being used or had been used as a dump site for various materials. The dump site could be one operated by some sort of municipality or one that was illegal. Materials dumped could range from building demolition trash to old tires and batteries, used automotive fluids or household and business garbage. Dump sites, legal or illegal, that were used for household and business garbage were thought to be the worst because nobody really knew what went into those.

And, of course, issues that effect commercial properties also effect residential properties, sometimes to a greater degree. A greater degree because prospective buyers of a home can be influenced by their emotions whereas a prospective buyer of a commercial property would likely be more pragmatic.

Also, lenders have to be concerned about what would happen if they should become owners of a specific property by way of foreclosure. As I know well, the task of disposing of a piece of property that has been foreclosed upon can be difficult because they seem to acquire a certain stigma. This stigma is worsened if the property has an environmental issue or is even close to the source of air/ground contamination and pollution such as a garbage dump euphemistically referred to as a landfill).

I'm bringing up the issues contained in this perhaps boring and overlong email not because I think I have unique or unusual insight, I just want to make sure everything is considered by those who will be deciding where to locate the county's next garbage dump/landfill. Because if the Rickard Road site #181315 is actually being seriously considered as the site for the landfill, and there is actual potential for the properties of my neighbors and myself to acquire a stigma or reputation because of their proximity to a landfill, then that's a big concern for us.

Our properties are valuable, well cared for and represent a significant portion of our personal net worth. Therefore a threat to our properties is a threat to us. Simply put a garbage dump in our back yard would be about as welcome as a skunk to a picnic. Please keep this in mind during your deliberations.

If conversely, the Rickard Road site is not being seriously considered as a site, as it shouldn't be, then we should be told as soon as possible so we can stop worrying. The meeting scheduled for January 17th would be the best time for this information to be made available.

Thank you,
Gene Vollmer

Tim Brownell

From: Glen & Cheryl Armstrong <glencheryl@gmail.com>
Sent: Wednesday, January 11, 2023 8:47 AM
To: managethefuture
Subject: Fwd: Proposed landfill site on 181315 Rickard

Some people who received this message don't often get email from glencheryl@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Sorry if this is a repeat but was trying to fix your email address...

----- Forwarded message -----

From: Glen & Cheryl Armstrong <glencheryl@gmail.com>

Date: Mon, Jan 9, 2023, 12:05 PM

Subject: Proposed landfill site on 181315 Rickard

To: <managethefuture@deschutescounty.org>

My home is 250 yds. from that site on Bozeman Trail in Conestoga Hills. We have had no correspondence from Deschutes County about this proposed action or the upcoming meeting next week. Are you trying to keep this invasive action on highly populated neighborhoods low key hoping for less resistance? I have lived here for 26 years. Moved here for the clean air and peaceful quiet neighborhood as have two of my daughters and their families. I drive by Knott Landfill weekly and see the dust, debris floating in the wind landing on someone else's property, garbage along the road from sifting loads, the nasty smell, truck and vehicle traffic in & out, the noise pollution from the equipment. Would you want this in your neighborhood? What about my property value taking a hit to the tune of 20%. Also, the mule deer who winter here. They have already been stressed by the paving and extension of Rickard Road. They are near & dear to our hearts and deserve consideration. Putting a landfill in our (or any) neighborhood is just plain wrong! You have other less disruptive options.

We will oppose this site through what ever measures become necessary.

Glen & Cheryl Armstrong
60744 Bozeman Trail

Chad Centola

From: Sarah Barr <sarbarr@gmail.com>
Sent: Wednesday, January 11, 2023 9:41 PM
To: managethefuture
Subject: Future Landfill

Some people who received this message don't often get email from sarbarr@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To whom it may concern,

As a citizen of Bend, I do not believe that the future landfill should be near existing homes and neighborhoods.

Thank you for consolidating our feedback.

Kind regards,

Sarah Barr
3315 NW Windwood Way, Bend, OR 97703

Chad Centola

From: Loie Boero <loieboero@gmail.com>
Sent: Wednesday, January 11, 2023 7:28 PM
To: managethefuture
Subject: Future Landfill Sites

Some people who received this message don't often get email from loieboero@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom It May Concern:

I strongly oppose placing a new landfill site near existing homes and neighborhoods, specifically the proposed Rickard Road and Bear Creek sites. These would be too close to existing (and future) homes affecting the quality of life in these rural areas, endangering wildlife, creating an odor issue, and reducing property values. These are the wrong locations.

Loie Boero
Bend, Oregon
loieboero@gmail.com

Chad Centola

From: Kristin Campbell <kjoycampbell78@gmail.com>
Sent: Wednesday, January 11, 2023 8:36 PM
To: managethefuture
Subject: 100-year landfill

Some people who received this message don't often get email from kjoycampbell78@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Greetings,

I recently learned the county is considering a parcel of land, specifically parcel 181315, as a potential site for the next landfill. This site is in close proximity to many - and from looking at a map - what looks like at least 100 homes.

People and families of varying ages, including children, obviously live in those homes. It's quite simple: that site is no place for a NEW landfill. The health risk to human beings from hazards caused by water and other pollution is well documented. No one, really, should be so exposed to those risks in such close proximity on a daily basis, and certainly not be forced to have to. That site should be removed from the list of possibilities.

My sincere thanks,

Kristin Campbell

Chad Centola

From: Mark Ellington <mark.ellington1@gmail.com>
Sent: Thursday, January 12, 2023 9:22 AM
To: managethefuture
Subject: Opposition to Landfill Siting Letter

[EXTERNAL EMAIL]

As a neighboring homeowner and resident in Conestoga Hills, I oppose the Site 181315 location for a future landfill along Rickard Road. This site is adjacent and directly to the north of my property, 60789 Blackfoot Trail.

Obviously, many homes and Avion well locations are located near this site. Such a siting would have significant and irreparable negative impacts on wildlife, water quality, neighboring homeowners, landowners, and citizens who enjoy the green space this location currently provides. The area is the wintering ground for the Paulina mule deer population, and with other encroachment issues, locating such an operation here would literally destroy this habitat. Neighboring property values would plummet, causing negative impacts on county revenues and the county's status as a desirable place to live. A landfill located in this area would destroy the very attributes that give home owners reason to stay here and continue paying taxes.

Deschutes County has historically placed dumps and landfills along the edges of the Bend community boundaries. As exponential growth has occurred, development has overrun these locations. This has proven costly to taxpayers and future development possibilities. The westside "demo dump" is an example of this, where OSU-Cascades was the communities only rescue. Given Bend's projected growth rate, claiming a 100-year site in this residential location is simple folly. Considering this site is just another unfortunate example of our leaderships' short-sightedness in planning. Obviously, a site close to Bend would be advantageous to citizens and the various hauling companies bottom line who will pass the cost onto ratepayers anyway. We, as citizens, would rather pay this added cost than incur the incalculable loss that placing a 100-yr site in this or any similar location would cause. A new landfill location further east, far beyond residential developments such, would be more acceptable.

Mark Ellington

60789 Blackfoot Trail

Bend, OR 97702

503-679-7223

Chad Centola

From: Kathy Wright <kw26wr@gmail.com>
Sent: Wednesday, January 11, 2023 7:49 PM
To: managethefuture
Subject: New 100 Year Landfill Proposed for Rickard Road - URGENT CONSIDERATION/CHANGE NEEDED

[Some people who received this message don't often get email from kw26wr@gmail.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

Hello,

As a home owner in Conestoga Hills neighborhood I want to ensure that everyone involved in choosing the new "100 year" landfill DOES NOT place it adjacent to our neighborhood nor any other existing neighborhood. I adamantly encourage the Deschutes County decision makers to make a sound decision and look to the other options available where the impact would be far less detrimental to a large amount of homeowners.

We have all worked very hard to move into a neighborhood where we could enjoy the quiet surroundings, clean air and watch the abundance of animal life. All of these items would be diminished greatly along with the threat to our groundwater, added traffic, noise, air quality and pollution. Statistics have proven our property values would drop roughly 20% which would be a significant impact to the 100 home sites in just our neighborhood alone let alone surrounding homes in the Rickard Road vicinity.

Landfills DO NOT belong adjacent to nor within close proximity too well developed/existing neighborhoods. There are multiple other locations that would house the new landfill without disrupting so many individuals both financially and health of everyone who lives in the area. Please do not jeopardize the lives of so many individuals by placing the new landfill near our neighborhood but rather seek an alternate location that is less populated and further out of town which would jeopardize far fewer individuals.

Again, I hope the decision makers for the new location will spend the extra time to review other locations away from existing/established neighborhoods. Please do the right thing NOW and mark the proposed sites off of Rickard Road adjacent to neighborhoods as UNACCEPTABLE and begin to research other more viable options.

Sincerely,

Kathy Wright
Homeowner Conestoga Hills - 23249 Butterfield Trail, Bend

Tim Brownell

From: Ed Boero <eboero@outlook.com>
Sent: Thursday, January 12, 2023 1:01 PM
To: managethefuture
Subject: Fwd: Future Landfill Sites

Some people who received this message don't often get email from eboero@outlook.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom It May Concern:

I strongly oppose placing a new landfill site near existing homes and neighborhoods, specifically the proposed Rickard Road and Bear Creek sites. These would be too close to existing (and future) homes affecting the quality of life in these rural areas, endangering wildlife, creating an odor issue, and reducing property values. These are the wrong locations.

Ed Boero
Bend, Oregon
Eboero@outlook.com

Chad Centola

From: Janis Cibelli <janisandmike1@gmail.com>
Sent: Thursday, January 12, 2023 7:50 AM
To: Bob and Cheryl Carr; managethefuture
Subject: Fwd: Fw: PROPOSED LANDFILL

Some people who received this message don't often get email from janisandmike1@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

----- Forwarded message -----

From: ROBERT F Carr <rfcarr@msn.com>
Date: Sat, Jan 7, 2023 at 12:50 PM
Subject: Fw: PROPOSED LANDFILL
To: Janis Cibelli <janisandmike1@gmail.com>

From: ROBERT F Carr
Sent: Saturday, January 7, 2023 12:43 PM
To: managethefuture@deschutescounty.org <managethefuture@deschutescounty.org>
Subject: PROPOSED LANDFILL

To Whom it May Concern:

We are writing this e-mail to you in regards to the New 100 Year landfill proposed for Richard Road.

We are residents of the Conestoga Hill community and are extremely concerned about this proposed location site due to the fact that the proposed site is way too close to our residential area.

We moved out here over twenty years ago for the quite nature of this area as well as the clean fresh air due to a severe medical problem, asthma.

We are very much concerned with sound pollution, health effects, bad smells, possible ground water contamination, etc.

We are asking that you consider another location much farther out from our residential area.

Thank you for your consideration in this matter.

Respectfully,

Bob & Cheryl Carr
23415 Butterfield Trl

Bend, OR 97702
541-385-5039

Tim Brownell

From: Paul Chanek <pdchanek@gmail.com>
Sent: Thursday, January 12, 2023 11:57 AM
To: managethefuture
Subject: No landfill at Rickard Rd Parcel 181315

Some people who received this message don't often get email from pdchanek@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

We live in Conestoga Hills, just south of the proposed landfill site on Rickard Road, and have since 2016. Whoever suggested this area for a landfill must not have visited the site. This entire area is FILLED with houses (about 300 within a one-mile radius, a simple look at Google maps will make clear). There are plenty of people living here and this is a well-established neighborhood (the entire area, not just Conestoga Hills)--hardly the place for a landfill (or "dump"). NO landfill should be sited in a neighborhood--and that would be ANY neighborhood, not just ours. Air, water, and land pollution are what a landfill brings--which is self-evident. Siting a landfill here will spell the end of property values, the loss of equity (i.e. life savings) that residents have built up over the years, the end of the quality of life we currently enjoy here. Some specific problems, if you are unaware: the smell of a dump (just drive by the current one on Knott Rd in the summertime), trash blowing around in windstorms (we do have windstorms here, year round), the unending flow of heavy traffic (giant dump trucks as well as people dropping off their trash) and the accompanying unending noise (as well as the unending noise of bulldozers pushing trash and dirt around in the site itself), the unending high-wattage industrial lighting, the leaking of polluted water through whatever lining you propose (in the course of a hundred years??), etc. etc. etc. None of these are conducive to a neighborhood where people actually live and have their life and home invested. All of this is self-evident, as stated above. We don't suppose any Board members would be keen on living next to a dump--and they should not expect us or any other residents of a neighborhood to be as well. There are other sites, not encroaching on neighborhoods where people live, that can be used for a landfill. There is plenty of vacant land in Deschutes County, plenty of it not near inhabited neighborhoods. The Rickard Rd site is obviously the wrong choice.

Paul Chanek & Karen Lester
23084 Butterfield Trl
Bend, OR 97702
pdchanek@gmail.com
541-323-4716

Chad Centola

From: Michelle Collins <mlcollinsathome@aol.com>
Sent: Thursday, January 12, 2023 8:17 AM
To: managethefuture; Patti Adair; Phil.Chand@deschutes.org; Tony DeBone
Subject: Proposed landfill sites

Some people who received this message don't often get email from mcollinsathome@aol.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Good morning!

I'm writing to voice my opposition of the proposed landfill site on Rickard Road. I'm completely opposed to putting another landfill in our neighborhood! The ramifications are obvious - health, trash, noise, traffic, decreased property values....to name a few. It is astonishing to me that you would consider a well populated neighborhood to install a new landfill, as opposed to one of the sites farther out of town, without residents. When does the value of ALL Deschutes County residents count?? I understand that a landfill a little farther out might increase garbage fees for all county residents, but I think the burden of the landfill should be shared by all residents, not just one neighborhood! A long term landfill solution should not be at the expense of one neighborhood! With the available land in Deschutes County, surely a location that would be acceptable and equitable to all can be found. I hope that you don't take the easy way out, and that you consider the ramifications to the Rickard neighborhoods when suggesting your sites.

Respectfully,

Michelle Collins
22460 Rickard Road

Tim Brownell

From: John Doherty <jdcsoc@aol.com>
Sent: Thursday, January 12, 2023 12:46 PM
To: managethefuture; Patti Adair; Phil Chang; Tony DeBone
Subject: Rickard Proposed Landfill Site

[Some people who received this message don't often get email from jdcsoc@aol.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

Hello,

I'm reaching out to you as a resident on Rickard Road to oppose the potential usage of county land near my house as a landfill location. I only heard about this recently and am still in disbelief that a location so close to so many residents of the county is even being considered. With so many possible locations away from neighborhoods how can you even be considering this location? I understand that a much more suitable location beyond the developed area of the county would cost each citizen a little more on their garbage bills, but destroying an entire ecosystem inside a developed portion of the county makes no sense to me.

This isn't a solar farm, or water storage facility you are talking about putting in. It is a landfill with dangerous toxins and chemicals. It's called a "Dump" for a reason. It's where people dump things they no longer want including all forms of waste.

So I ask you,

- 1) Can you guarantee my family that the new landfill so close to my house will have no impact on the ground water?
- 2) Can you guarantee my family that the new landfill will not put dangerous chemicals and toxic particles into the air?
- 3) Can you guarantee my family that the new landfill will not lead to a decrease in my property value?
- 4) Can you guarantee my family that the new landfill will not greatly increase the traffic on my street likely resulting in serious accidents and possibly deaths?

I simply cannot understand why this location is even being considered given the other locations available.

Sincerely,
John Doherty
22460 Rickard Road

Sent from my iPhone

Chad Centola

From: Lee Ann Hoisington <coyotepaws7@gmail.com>
Sent: Thursday, January 12, 2023 9:44 AM
To: managethefuture
Subject: Regarding the Landfill Site

Some people who received this message don't often get email from coyotepaws7@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Totally ridiculous location. Right on top of homes and subdivisions. Noise, pollution, increased traffic, air quality. We live out in the area by choice to get close to wildlife and quiet. There must be a better solution. The solid waste currently is not surrounded by houses or neighborhoods. Please rethink this local. Lee Ann Hoisington Conestoga Hills

Chad Centola

From: Mick Levey <MHLOK1@msn.com>
Sent: Thursday, January 12, 2023 4:52 PM
To: managethefuture
Subject: RICKARD ROAD LAND FILL

Some people who received this message don't often get email from mhlok1@msn.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

DATE: January 2023
REGARDING: Rickard Road Land Fill
TO: To all the Employee's, Consultant's, Advisors, and other Person's
Managing the Future of Solid Waste in Deschutes County.
FROM: Home Owner Conestoga Hills

I bought property some years ago when the population of Deschutes County was about 85,000 inhabitants. I have paid my property taxes every year. Always on time, never asking for a re-assessment. Has the property changed, no. Has the County changed, yes, of course? Change cannot be avoided.

I came to Bend, Oregon upon retirement to determine if Central Oregon had all the attributes I was looking for to buy property. I wanted to design and build a home and improve the property. After 2 years of looking I found the property in a small sub division in Deschutes County, called Conestoga Hills.

The biota around the area was everything I was looking for. The property orientation was just right. Visible to sunrise, sunsets, moonrise, open views 360 degrees, mountains, buttes, old growth juniper, all the beauty Nature provides in the High Desert. I bought the property. Created my home and the property landscape. All material used in development thereof was natural, in harmony with the native soundings. The fruit of silence on the property was tranquility. There were no sounds of traffic, trucks, heavy equipment, or other distractions to draw my attention away from the serenity of the location and natural environment.

A Rickard Road Landfill across the road or within a mile radius would have a severe detrimental and disastrous impact on all the land, wildlife, flora, water, soil, air, absence of natural sound, real estate, and so much more if within a mile radius as proposed. This would be a certain way to devastate and destroy the natural environment.
I SAY IRREFUTABLEY NO TO A LANDFILL ON RICKARD ROAD!

My property is in a TRUST. I feel my property is a major asset to the Trust. I believe the property will be a place where generations of family will visit and enjoy. The beauty of the

home, property, and natural environment is unique, and irreplaceable. A Land Fill will immediately devalue the property and surrounding natural area.

I SAY IRREFUTABLELY NO TO A LANDFILL ON RICKARD ROAD!

People with knowledge of real estate history, would agree, values in Deschutes County real estate over time, have always increased.

All the properties in Conestoga Hills have increased in the time I have lived here. Does Deschutes County have the fiduciary right to impede and decrease the dollar value of the area real estate by way of creating a Land Fill across the road or within a mile radius of the properties?

I SAY IRREFUTABLELY NO TO A LANDFILL ON RICKARD ROAD!

I do not find it necessary to go through the analysis, logic, and deduction of why anyone would want a Landfill across the road from their home. Or in fact, anywhere with a one-mile radius. The natural environment, location, and value of the property and surrounding area would decline. The area would become undesirable.

I SAY IRREFUTABLELY NO TO A LANDFILL ON RICKARD ROAD!

I understand Deschutes County is diligent regarding environmental monitoring relative to all forms and types of waste going into a Landfill.

Environmental engineers, ecologist, professionals and experts in that field of service are employed by the County to create a matrix explaining in detail, how any and all elements that go into the Landfill, ARE NOT impacting the surrounding flora or fauna in any way. Then why is the discontented use of Land Fills require 30 years according to the EPA before a very limited type of land use is permitted? Perhaps the land and area around it are toxic to the environment?

I SAY IRREFUTABLELY NO TO A LANDFILL ON RICKARD ROAD!

Surly it would be easy to create an alliance of hundreds of taxpaying homeowners within a mile radius of a Rickard Road Land Fill to sign a formally prepared request to Deschutes County, to remove the proposed site for a Land Fill on Rickard Road. The property tax of such an alliance could easily represent over a \$1,000,000. dollars in annual tax revenue to Deschutes County.

I SAY IRREFUTABLELY NO TO A LANDFILL ON RICKARD ROAD!

Deschutes County has reconvened the Solid Waste Advisory Committee (SWAC) to work with staff and a consultant team to prepare the top potential Solid Waste Management Facility sites for The Solid Waste Boards consideration. As these people are civil employees, or appointed, or selected thereby, do I as a tax paying citizen of Deschutes County have the right to meet them, and evaluate their point of view?

Does my point of view really matter, and the others who are opposed to a Rickard Road Land Fill?

Respectfully submitted for your consideration,

Home owner Conestoga Hills, Deschutes County, Oregon

Chad Centola

From: Barbara Sparrow <blssparrow@gmail.com>
Sent: Thursday, January 12, 2023 5:39 PM
To: managethefuture; Chad Centola; Phil Chang; Tony DeBone; Patti Adair
Subject: Opposition to Proposed Landfill Site Bear Creek 181300

Some people who received this message don't often get email from blssparrow@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

My name is Bob Sparrow. My wife, Barbara and I own property that shares its east and south property lines with Central Oregon Irrigation (COID) land, proposed landfill site number 181300.

Our property was bare ground when I purchased it in 1992. Before any work could be done the property had to be annexed into the Fire District, a conditional land use filed and power brought in. After these necessities were satisfied we dug a well that cost just about as much to develop as the property itself. Having cleared that last hurdle I built my own home, working on it after my day job and on weekends. I share these efforts with you to show how much I value my home and it's location.

My neighbors have all taken on these same challenges and feel as proud and protective of their investment as I do. I have read many of their points opposing the 181300 Bear Creek site and they are all valid major concerns.

- * Loss of property value
- * Traffic
 - entry/exit points
 - changing existing roads in established neighborhoods to accommodate traffic load
- * Noise
- * Air and light pollution
- * Disruption of animal habitat
- * Ground water
 - contamination
 - effects on existing aquifers

To the last point, I have much personal interest. It was noted that SWAC members used well logs to get a glimpse of the geology below the surface of the Bear Creek site 181300. These well logs will all identify they are drilled in sand, conglomerate, sandstone, cinders, fractured rock; all permeable formations to be avoided when selecting a future landfill waste site. I would hope the number of wells in the area would sound an alarm and the geology they are drilled in should be cause for more concern and attention.

My wife and I are very much concerned for our domestic water. We experienced a well failure in March of 2022. This was the well I built my life around and it produced water flawlessly for 30 years. The process of deepening our well was financially and emotionally stressful. What we learned from the Water Master, well driller and pump company is, there is mystery and many variables when obtaining ground water. There is no "crystal ball" is a saying I heard more than once.

Landfills should not be sited near existing wells. A quarter mile (1,320 feet!) is nowhere near enough buffer for an existing well's cone of depression. The initial site development coupled with the use of same land for processing and storing waste has much potential for negatively impacting an already fragile aquifer.

We strongly oppose a landfill at the Bear Creek site 181300.

Bob Sparrow

Barbara Sparrow

Chad Centola

From: Gayle Stone <gaylestone24@gmail.com>
Sent: Thursday, January 12, 2023 9:14 AM
To: managethefuture
Subject: Thank you for all the work you're doing on the new landfill plans

Some people who received this message don't often get email from gaylestone24@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I can only imagine how difficult and complicated it is planning for our much needed new landfill, and want you to recognize that many of us see that. I would like, however, to add my voice to those saying that a site must be chosen away from existing homes. With Knott Landfill, homes were built after its construction and locating near it was a choice. Not so in some established areas being considered. Thank you for your attention to these concerns.

Chad Centola

From: Alexa Vjarro <alexavjarro@gmail.com>
Sent: Thursday, January 12, 2023 9:56 PM
To: managethefuture
Subject: 181315 Rickard Rd.

Some people who received this message don't often get email from alexavjarro@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Hello,

Sending an email to oppose site 181315 Rickard Road.

We are one of the closest residences to this proposed site and want to express my concern of known negative health effects living this close to a landfill. This site is unsuitable for many reasons, but moreso no new landfills should be sited next to existing neighborhoods. This is unsuitable as a future landfill and should absolutely be removed from consideration.

Alexa Vjarro

Chad Centola

From: Adams Sean <sean@seanadams.com>
Sent: Friday, January 13, 2023 5:47 AM
To: managethefuture
Subject: Rickard rd landfill

[Some people who received this message don't often get email from sean@seanadams.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

Hello, I wish to express opposition to the idea of a landfill at 181315 Rickard Road. There is an established neighborhood here. This site should be excluded from consideration. Thank you,

Sean Adams
60925 Ward Rd
541.390.0406

Tim Brownell

From: Lisa Bohard <kirkandlisabohard@gmail.com>
Sent: Saturday, January 14, 2023 11:33 AM
To: managethefuture
Subject: Proposed landfill site #181300

Some people who received this message don't often get email from kirkandlisabohard@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Good Morning,

The purpose of my email is to urge you to oppose any further consideration of site 181300 for the development of a new landfill.

Development of a landfill on this property would have a drastic and negative impact for farms and ranches surrounding it. We live on Bear Creek Rd less than a mile from the proposed site and we are extremely concerned at the possible ramifications if this site were to be approved. The quality of life we sought when we purchased our ten acre property would be forever changed in a negative way. Our property value would be adversely affected and with the current prices of acreage in Central Oregon it would be doubtful that we could afford a comparable farm not to mention the stress and inconvenience of feeling like we need to relocate.

Bear Creek Rd is not a reasonable route for traffic in and out of a landfill. There are at least three large rises along Bear Creek that make it impossible to see over the hump to oncoming traffic. Groups of bicycle riders are frequently on this road and there is no bike lane. The road noise, dump truck exhaust and pollution and the smell of the landfill would ruin what every homeowner in this area was dreaming of when they purchased their farms and ranches. Livestock would be adversely affected by the constant traffic and noise pollution.

We have bald eagles nesting along this area and I fail to understand while areas like Tumalo Reservoir have been blocked off from all types of motorized, human and even horse traffic and yet our area out here is not even being considered for protecting the eagles and osprey that nest here.

The landfill will border residents' property with wells and although my property does not border the proposed site, I can only imagine how I would feel in terms of the security of my drinking water if a landfill was only a quarter of a mile from my well.

With Central Oregon's current rate of growth, putting a landfill close to town is not a long term solution and would show very poor planning by the city commissioners. There are vast amounts of property further outside of the area that would not have an adverse effect on homeowners, ranchers, farmers, wildlife and recreationists. Please hear our voices and cease any further consideration of site #181300.

Thank you, your time and consideration are appreciated.

Kirk and Lisa Bohard
23055 Bear Creek Rd
Bend, OR 97701
541-408-4456

Chad Centola

From: Gary Clark <naclassics@usa.net>
Sent: Friday, January 13, 2023 6:48 AM
To: managethefuture
Subject: Proposed Rickard Rd. Landfill

Some people who received this message don't often get email from naclassics@usa.net. [Learn why this is important](#)

[EXTERNAL EMAIL]

This is to indicate my concern that you are considering putting a landfill on Rickard Rd. That is very close to existing housing, and is a recreational area we use frequently. There are very few such on the east side that haven't already been compromised by development and/or poor usage. Please look hard for a better alternative.

--- Gary Clark, 60375 Sunridge Dr., Bend

TO: Deschutes County Commissioners:
ATTENTION: Patti Adair, Tony Debone, Phil Chang; and **Solid Waste Advisory Committee (SWAC)**
SUBJECT: Proposed Transfer Station – Site ID# 181300 (COID land)
FROM: Terri Fields, 23470 Bear Creek Road, Bend, OR 97701

I strongly OPPOSE the proposal of a landfill site, on Bear Creek Road, Site ID# 181300.

The sunrise is beautiful! The Bald Eagles that look over the land are breathtaking!

My name is Terri Fields and I live across the old homestead on Bear Creek. We have Bald Eagles that perch on two of our trees looking over the beautiful land. We have CLEAN irrigated water running through our neighborhood. This clean water is welcoming to our cattle and furry friends.

Just some issues.....

- Major impacts to all adjoining and impacted properties - land value, traffic, noise, pollutants, etc.
- Potential for Domestic Well Pollution – Many of the adjacent property Owner’s use domestic wells for their domestic water source.
- Potential for Underground Water Aquifer Pollution.
- Pollution of other COID close by properties.
- Trash / Airborne Debris - Contamination of this beautiful area.
- Surface Irrigation Water Pollution – A major canal is located south of this proposed site.

Also, most neighbors encircling this property use this water for livestock related purposes, including drinking water for the animals plus irrigation for the grass and alfalfa production.

- Archeological Impacts – Destruction of unscathed rock outcroppings and old growth juniper and history of the Central Oregon High Desert area.
- Traffic Related Pollution – Noise, dust and constant unsettling movement associated with an overwhelming truck trips per day.
- Destruction of High Value EFU Property – Wildland and homes have many High Desert animals.
- Safety!

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting, and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

My heart breaks for the thought of the land next door being a potential landfill option. Our families, dogs and horses walk up and down this road. Kids walk to the school bus stop that is located on the corner of Bear Creek and Ten Bar Road. Families walk this road with babies in strollers. Now they all dodge multiple dump trucks passing by? None of this makes sense. No dump in anybody's backyard or the road to their driveway should be an option as a travel way to a site. How many trucks will pass our driveways and yards? We have kids playing here!

I strongly OPPOSE the proposal of a landfill site, on Bear Creek Road, Site ID# 181300.

Thank you for your time,



Terri Fields

23470 Bear Creek Rd.

Bend, OR 97701

Tim Brownell

From: D'Anza Freeland <danzafreeland@gmail.com>
Sent: Saturday, January 14, 2023 2:24 PM
To: managethefuture
Subject: Fwd: Landfill Opposition

Some people who received this message don't often get email from danzafreeland@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300!!!!!!

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Please put yourself in the shoes of the families and people who live where we live. I guarantee you would not want a landfill in your backyard either.

Best,
D'Anza Freeland
Ten Barr Ranch Road.

Sent from my iPhone

Begin forwarded message:

From: D'Anza Freeland <danzafreeland@gmail.com>
Date: January 14, 2023 at 2:20:14 PM PST
To: managethefuture@deschutescounty

Cc: chad.centola@deschutes.org, solidwaste@deschutes.org

Subject: Landfill Opposition

I oppose a landfill on Site 181300!!!!!!

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

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Please put yourself in the shoes of the families and people who live where we live. I guarantee you would not want a landfill in your backyard either.

Best,
D'Anza Freeland
Ten Barr Ranch Road.

Sent from my iPhone

Tim Brownell

From: Scott Goodrich <l.scottgoodrich@gmail.com>
Sent: Saturday, January 14, 2023 2:16 PM
To: managethefuture
Subject: I oppose landfill site 181300

Some people who received this message don't often get email from l.scottgoodrich@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Dear SWAC,

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

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Thank you,

Scott Goodrich
24020 Skywagon Drive
Bend, OR 97701
l.scottgoodrich@gmail.com

Tim Brownell

From: Chad Centola
Sent: Sunday, January 15, 2023 12:49 PM
To: Tim Brownell
Subject: FW: Bend Airport and Ms. Goodrich

Further edits for Ms. Goodrich-

From: Chad Centola
Sent: Sunday, January 15, 2023 10:17 AM
To: Tim Brownell <Tim.Brownell@deschutes.org>
Subject: Bend Airport and Ms. Goodrich
Importance: High

Tim-

Here's some recommended wording for a reply to Ms. Goodrich...make sure you reply to all those she cc'd:

In late 2021, the Solid Waste Department reached out to the FAA to specifically discuss FAA Advisory Circular AC 150/5200-34A to get guidance as to its applicability to the County's landfill siting efforts. At that time, the FAA advised Deschutes County that the Bend airport did not meet the siting criteria in the Advisory Circular. **Unfortunately, they did not provide a specific reason at that time but it was likely because** the statute specifically applies only to airports that are recipients of federal grants under the Airport and Airway Improvement Act of 1982 **and meet very specific air carrier and passenger requirements.** ~~At that time, the Bend airport had neither received or applied for grants under this act.~~

Given that the Bend airport has recently received a grant for improvements, we have again reached out to the FAA to get guidance on the applicability of AC150/5200-34A or, if the grant was awarded under an alternate statute, determine if there are new siting restrictions that we should be appraised of.

We will reach out to you as soon as we hear back from the FAA.

Tim Brownell

From: Wanda Lee Goodrich <wlgoodrich@gmail.com>
Sent: Saturday, January 14, 2023 2:13 PM
To: managethefuture
Subject: I oppose landfill site 181300

Some people who received this message don't often get email from wlgoodrich@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Dear SWAC,

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

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Sincerely,

Wanda Lee Goodrich
24020 Skywagon Drive
Bend, OR 97701
wlgoodrich@gmail.com

Tim Brownell

From: scott tvcbean.com <scott@tvcbean.com>
Sent: Friday, January 13, 2023 3:40 PM
To: managethefuture
Subject: PLEASE PLEASE PLEASE

Some people who received this message don't often get email from scott@tvcbean.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Hello just wanted to say a few things regarding the move of the new land fill. **No new landfills should be sited next to existing neighborhoods. The site at 181315 Rickard Road is unsuitable as a future landfill. It should be removed from consideration.** I have grown up in Conestoga Hills. My parents bought this house in the early 90s and I bought the house from them 9 years ago. Since that time my wife and I have had 2 kids (3 and 7). The location 181315 Rickard Road has been a favorite spot for my family to take walk, Geocache, deer watch, and even watch the bald eagles most of the time around March. I plan on keeping this house in the family and handing it down to my kids. But if there is going to be a landfill less then a half of mile from my front door, I don't see that happening. We live on top of Butterfield Trail and I would be looking right down on the landfill. So, with all the lights, smells, diesel truck and the flame that burns the gases is what I would seeing and smelling all the time. This would be such a bummer. All I can ask is **PLEASE PLEASE PLEASE,** don't put a landfill site by existing neighborhoods when you have locations that are not by any.

Thanks

Scott Higdon
541-480-9317

23256 Butterfield Trl
Bend, Or 97702

Tim Brownell

From: Brittney Janeck <britt.janeck@outlook.com>
Sent: Friday, January 13, 2023 5:43 PM
To: managethefuture
Subject: My concerns regarding proposed SWMF site 181315 on Rickard. Rd. a.k.a my backyard.

[EXTERNAL EMAIL]

Good evening Deschutes County and the SWAC team. Here's the thing, I am the mother of 3, a homeowner, a home builder, and lover of nature and what the country life has given my family. I never could I have imagined the possibility of a Solid Waste Facility being built in my backyard. Could you? No really, could you? How much of my experience and my kids experience of living in the country would be overshadowed by the lights, sounds, and smells of the SWMF?

Per the recent screening results from the Solid Waste Advisory Council (SWAC) I have read, "The currently identified sites have been assessed through a set of Broad Area Screening Criteria, which involved assessing sites through a general set of criteria including environmental and land use restrictions, identified hydraulic/geologic hazards, and screened through general information including cultural and archeological assets. The process to this point has used broad scale regional mapping information and GIS resources to identify areas with specific land use and wildlife restrictions, geologic areas of concern, wetlands and storm water floodplains prohibitions that may be unsuitable for a future SWMF."

This is happening backwards. The impact a SWMF will have on 147+ tax paying residents, many of which are within 1 mile of the proposed site, should be considered a restriction and a priority for concern. The community should be heard first before a site is considered. Not weighted at only 30% overall during general screening. And the criteria to be tested within land use area is not complete. Were the conditions and criteria to be tested given from the Environmental Quality Commission as stated in ORS459.055? Are engineering and land characteristics really more important than land use impacts and equal to wildlife impact? If 147+ residents don't want a landfill in their backyard, site 181315 should not be on the list, it is unsuitable, and we humbly request it be immediately removed from consideration.

There is no question the impacts the landfill would have if developed so close to so many residents. The lights, the noise of tractors and trucks, the smell, the visibility (junipers don't screen anything, they are sparse and squatty), impact on our aquifer and the water table (what will be the new sites water source), water pollution (PFAS) and removal, a decrease to surrounding wildlife migration, air pollution, the decrease in the quality of life of those that built their homes in the country. I have herds of deer on my property almost daily. We fence all our trees to prevent them from dying. There are so many deer that come to eat and rake on our trees, but we still love to watch them and don't want them going anywhere. Our home borders the suggested site. There are certain things no one can control like smell and noise. Can wind direction be controlled? Can that wind be told not to blow around materials onto other people's land? Can't wait to complain about that one, have you seen High Desert Middle school and 27th street? Can the deer be told not to get hit by the increase of traffic that will occur or be told not to listen to the increase of noise that will deter them? Can the county promise none of the contaminates will leak into the water table or the aquifer that serves so many wells in the area? The well itself may be far enough but the water that serves them isn't. And our water table out here is already suffering. I don't think I need to list the dangers of those two points. Each of the criteria topics used to create this list of potential sites do not take in account real impact to the surrounding area. This process is not just about where you can build a landfill. It should be about where a landfill will have the least community and environmental impact. Site 181315 should be immediately removed from consideration.

We have lived in Bend since 2012, 11 years. We are grateful for the blessings we have experienced since moving from Portland Oregon where my husband and I grew up. Building our own home in the middle of the country on the outskirts

of booming Bend was always the plan and it took 18 years to make this dream for our little family happen. Property here is to no surprise very expensive and knowing this prompted a long journey of finding the right property that would be worth our savings. We even took the time to write personal letters to the landowner to secure the sale of our property. However, choosing to general our first home build, on our own, with 2 kids and pregnant with our 3rd, is a personal trial I never want to have to repeat. But it's been so worth it. The sacrifices we made as young parents to get where we are today have even inspired others to build their dream homes and move out of the city to enjoy the quiet country life, we've had for the past 4 years. It's defeating to think all the effort, planning, sacrifices, and our country experience we fought for might be taken away. Can you imagine!? By people we don't even know. Is all this even considered? The SWAC team has a hard job to do. But our daily lives as families, farmers, retired folks, and homeowners will be forever changed if this landfill happens in our backyard.

Site number 181315 bordering our home and Rickard rd. needs to be removed immediately from being an option for landfill so others can be tested and focused on more thoroughly. There is no surprise there have already been 70+ letters sent to the county. No surprise multiple households have already been passing around flyers, held community meetings, and sent hundreds of emails and notices. The homes on Rickard Rd. are obviously worth fighting for. The Rickard Family is worth fighting for and I know that in the end the SWAC team will make the right decision to remove site 181315 from the list. Thank you for your time and considering how much we care about this land we call home. Hopefully that will be enough.

Warmly,
Brittney Janeck
541-815-2940
23160 Rickard Rd.
Bend, OR. 97702

Tim Brownell

From: Jay Lee <jglee1993@gmail.com>
Sent: Friday, January 13, 2023 10:39 AM
To: managethefuture
Subject: Site 181315

Some people who received this message don't often get email from jglee1993@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I'm writing to comment on the unsuitability of the above mentioned site between Rickard road and highway 20 of all the sites you mentioned that were viable sites, this site is immediately adjacent to several housing communities of local bend families. You have other viable sites that are not much farther away from town than this one and all of them are more suited to a 100-year waste disposal treatment plant. Please take into consideration that Bend will be growing continuously over the next 50 years and the site off of Rickard road will end up being right in the middle of that growth. Thank you for your consideration.

Tim Brownell

From: Wendy Mader <wendy@cahyacenter.org>
Sent: Friday, January 13, 2023 10:37 AM
To: managethefuture
Subject: Fwd: The Hidden Damage of Landfills | Environmental Center | University of Colorado Boulder

Some people who received this message don't often get email from wendy@cahyacenter.org. Learn why this is important <<https://aka.ms/LearnAboutSenderIdentification>>

[EXTERNAL EMAIL]

I imagine you've read several studies about the danger of landfills to those who live close by?

Please remove site 181315 from consideration for a future landfill! When you can instead chose a site near no humans, as you have those other options, please do so! Don't poison our neighborhood, our families, our environment! Thank you.

Wendy Mader

Begin forwarded message:

From: Wendy Mader <wendy3561@gmail.com <<mailto:wendy3561@gmail.com>> >

Subject: The Hidden Damage of Landfills | Environmental Center | University of Colorado Boulder

Date: January 5, 2023 at 11:13:15 AM PST

To: Wendy Mader <wendy3561@gmail.com <<mailto:wendy3561@gmail.com>> >

<https://www.colorado.edu/ecenter/2021/04/15/hidden-damage-landfills>

Tim Brownell

From: Dee McBrien-Lee <lonesomedogstudio@gmail.com>
Sent: Friday, January 13, 2023 11:00 AM
To: managethefuture
Subject: Rickard rd proposed landfill site

Some people who received this message don't often get email from lonesomedogstudio@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I would like to go on record as one who is strongly opposed to this particular site due to location in relation to existing homes. With the various other potential sites there does not seem to be a NEED to have this future location in or near an existing neighborhood.

Thank you.

Deanne McBrien-Lee
60385 Sunridge Drive
Bend 97702

Tim Brownell

From: Steve And Tina Paxton <paxtime72@yahoo.com>
Sent: Saturday, January 14, 2023 12:39 PM
To: Tim Brownell
Subject: Re: Definitive locations for prospective dump

[EXTERNAL EMAIL]

Can you confirm that you have added our feedback and dismay and disapproval to the official record for this project.

thanks Steve and Tina Paxton

Sent from my iPad

On Dec 24, 2022, at 7:41 AM, Steve And Tina Paxton <paxtime72@yahoo.com> wrote:

Thanks again for you specific and responsive information. Obviously we are not pleased with having that site even in the discussion with so much other land out further that would not impact the property values - this area is literally so close to town it should be developed as residential land.

Sent from my iPad

On Dec 24, 2022, at 6:58 AM, Tim Brownell <Tim.Brownell@deschutes.org> wrote:

Good morning,

From your address it appears that the Site ID is #181315. There are a few Tax Lots associated with that location. It is just north of Rickard Rd, west of the junction with Hwy 20.

Tim Brownell

Sent from my T-Mobile 5G Device
Get [Outlook for Android](#)

From: Steve And Tina Paxton <paxtime72@yahoo.com>
Sent: Friday, December 23, 2022, 4:45 PM
To: Tim Brownell <Tim.Brownell@deschutes.org>
Subject: Re: Definitive locations for prospective dump

[EXTERNAL EMAIL]

Ok so reviewed info but, please tell me the tax lot # for the closest area to 60575 Ward Rd where we live - the descriptive info is not very intuitive.

thanks Steve and Tina Paxton

Sent from my iPad

> On Dec 23, 2022, at 1:52 PM, Tim Brownell <Tim.Brownell@deschutes.org> wrote:

>

> Steve and Tina,

>

> In regards to how to access specific locations site information, on page 25 of the Siting Study Presentation that provided this past week you will find all of the sites and the specific Tax Lot information. I have provided a link below:

>

> <https://ddec1-0-en-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=https%3a%2f%2fwww.deschutes.org%2fsites%2fdefault%2ffiles%2ffileattachments%2fsolid%5fwaste%2fmeeting%2f25736%2fswac%5f2022.12.20%5f%2d%5fpresentation.pdf&umid=37ca42b2-1b28-4e84-9c97-b9098bcb4e11&auth=eb57bfd9ea9cdaa3b558713c132cdbc67404c41-84008e52fe5545bb452b44b8a2b0ad970e9a1b29>

>

> You can then search for that location using the Tax Lot # at the following site:

>

> <http://dial.deschutes.org/>

>

> That has information regarding ownership, etc., as well as has a link to an Overview Map that will give you an aerial view of the location of that Tax Lot.

>

> I hope you find this information helpful.

>

>

> Tim Brownell | Incoming Director

> DESCHUTES COUNTY DEPARTMENT OF SOLID WASTE

> 61050 SE 27th Street | Bend, Oregon 97702

> Tel: (541) 317-3177 | Cell: (831)324-2652

> tim.brownell@deschutes.org | www.deschutes.org/sw

>

>

> Enhancing the lives of citizens by delivering quality services in a cost-effective manner.

>

>

>

> -----Original Message-----

> From: Steve And Tina Paxton <paxtime72@yahoo.com>

> Sent: Friday, December 23, 2022 12:56 PM

> To: managethefuture <managethefuture@deschutescounty.gov>

> Subject: Definitive locations for prospective dump

>
> [Some people who received this message don't often get email from
paxtime72@yahoo.com. Learn why this is important at <https://ddec1-0-en-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=https%3a%2f%2faka.ms%2fLearnAboutSenderIdentification&umid=37ca42b2-1b28-4e84-9c97-b9098bcb4e11&auth=eb57fbfd9ea9cdaa3b558713c132cdbc67404c41-af4a3cc534215ff867ec84a62e6b799e3dc1afeb>]

>
> [EXTERNAL EMAIL]

>
>
> _____

> We can not tell from the map provide on your web site the specific locations - where
can we find these locations/cross streets access paths etc?

>
> Steve and Tina Paxton

>
>
> Sent from my iPad

Tim Brownell

From: Dale Renner <skitenbum@gmail.com>
Sent: Friday, January 13, 2023 9:41 PM
To: managethefuture

Some people who received this message don't often get email from skitenbum@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

My name is Dale Renner at 60590 Groff Rd. 267-218-0662. I am also speaking on behalf of my wife Donna residing at the same address.

Let me start by saying. To place a landfill with its host of known hazards (pollution -water, air, noise dirt and dust etc.) all of which are POSSIBLE AND PROBABLE, right up against an ESTABLISHED community of 200+ homes and its residents, in a PRISTINE location loaded with wildlife and of course HUMAN BEINGS, is irresponsible, unconscionable, uncaring and a show of total disregard for the WELFARE and good of this community and it's citizens. It's not like WE decided to move next to an existing landfill. You are INVADING a beautiful EXISTING community.

*** WHY ARE THERE ONLY AM MEETINGS SCHEDULED WHICH CERTAINLY WILL IMPACT THE ABILITY OF MANY CITIZENS TO ATTEND AND VOICE NEGATIVE CONCERNS? INTERESTING???? HMMM

*** WHY were 2 high scoring sights eliminated from screening??

1. Our water supply is located in close proximity.
2. Dust and dirt in the air. On any given day with just a gentle breeze take a look at the current sight and the dust.
3. Commercial disposal truck traffic on Rickard Rd. In addition to the 18 wheeler traffic circumventing Bend from 97 to 20. General community traffic using the facility. THERE ARE SIGNIFICANT DEER AND OTHER WILDLIFE TRAVERSING RICKARD RD, TO AND FROM BLM LANDS.
4. Odor. No more need be added on that topic.
5. Noise. Bulldozers, front end loaders, tractors etc.
6. CARCINOGENS ETC. IN THE WATER, AIR AND SOIL.
And please don't insult our intelligence by claiming that WON'T happen !!!
7. Our property values will drop SIGNIFICANTLY. Moving away from this DEBACLE will be extremely difficult in these current economic times!!!!
8. In this wide open Central Oregon area there are many other areas which would certainly have less of a negative impact on humans and wildlife. MAKE A DEAL WITH BLM.
9. CONSTRUCTION of facility. Noise, dust and blasting. I used to own a stone quarry and I know the affects of dynamiting to a significant distance. All neighboring homes moved IN knowing what was involved with the proximity to a quarry. NOT THE CASE HERE!!! WE ARE ALREADY HERE.
10. Have you done any studying on safe distances from homes and water supplies????? I THINK NOT

HAVE SOME COMPASSION FOR OUR PROPERTIES, HEALTH AND WELFARE OVER THE CONVENIENCE OF THE DISPOSAL COMPANIES!!!!!!

Tim Brownell

From: Romero Business <ma3romero@bendbroadband.com>
Sent: Friday, January 13, 2023 10:35 AM
To: managethefuture; Patti Adair; Phil Chang; Tony DeBone
Subject: Landfills

[Some people who received this message don't often get email from ma3romero@bendbroadband.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

Commissioners and SWAC, I write this email in disbelief. The lack of transparency by Deschutes County on the proposed locations of future landfills is embarrassing. Along with the scoping of proposed landfills with Deschutes county residents is equally embarrassing. Getting an opinion from 17 members of the public is not scoping. To this day, we have not received any emails, mail or anything of the sort from Deschutes County about any proposed landfill in the Rickard area. Why? We only heard about it through our neighbors. The meeting coming up this Tuesday January 17th, why are we having to hear about this from our neighbors and not the County, especially when it directly affects my property and surrounding area. How hard would it have been for the County to send an letter to areas that may be directly affected, briefly going over the need, the potential solutions/locations and why these locations? It would have definitely spared me from writing this email. Also, why are these public meetings held during the middle of the day? This limits folks who may have interest in attending, due to their full time jobs. I am hopeful my concerns are premature and there will be a larger dialogue and more public meetings (evening) with a larger meeting area, so the public can attend. I do realize the County is in need of a new landfill, hence a new location. But the beginning procedures taken up by the County is lacking transparency and not meeting the high standards to be expecting by County employees and the County commissioners whom we voted for. I am also wondering when I asked the county why they were paving the aggregate section of Rickard road to Hwy 20, a couple of years ago, if there wasn't a hidden agenda. i.e.= proposed landfill? All these accusations, hidden agendas, etc.. could have all been eliminated if the County would have been more transparent before coming to a conclusion of the top locations for landfill now being further considered. Please feel free to respond if my concerns are not valid or accurate.

So without any information sharing from the County - No new landfills should be sited next to existing neighborhoods. The site at 181315 Rickard Road is unsuitable as a future landfill. It should be removed from consideration.

Very disappointed,

Marcos Romero
60835 Gosney Road
Bend, OR 97702

Chad Centola

From: michelle rossi <maissor@yahoo.com>
Sent: Friday, January 13, 2023 4:59 PM
To: managethefuture
Subject: New Landfill

Some people who received this message don't often get email from maissor@yahoo.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

No new landfills should be sited next to existing neighborhoods. The site at 181315 Rickard Road is unsuitable as a future landfill. It should be removed from consideration.

**Thanks,
Michelle**

Chad Centola

From: Robert Schuur <rgschuur@gmail.com>
Sent: Friday, January 13, 2023 8:19 AM
To: managethefuture
Cc: Martha Schuur; hello@north44farm.com; Ethan O'Brien
Subject: No new landfills should be sited next to existing neighborhoods. The site at 181315 Rickard Road is unsuitable as a future landfill. It should be removed from consideration.

Some people who received this message don't often get email from rgschuur@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Dear Solid Waste Advisory Committee,

As you can see from the subject line on this email, as a resident on Gosney Rd, near Rickard Rd., I am highly opposed to the possibility of siting the new landfill at the proposed 181315 Rickard Rd. location.

This Rickard Rd. location is entirely unsuitable for a variety of reasons including:

1. Proximity to existing homes/neighborhoods
2. Proximity to existing drinking water wells
3. Possible air, noise and water pollution to homes and farms in the neighborhood
4. Traffic conflicts with farm vehicles on local roads
5. Increased traffic noise and pollution in what is a rural/farm area
6. Conflicts with possible future development.

It seems highly likely that the area around Rickard Rd site will experience the addition of more rural/farm residents in the area over the life span of the landfill. More residents will increase conflicts with landfill operations and enhance the possibility of legal or operational limitations on landfill operations, vehicular accidents and possible pollution claims by neighbors. Why would the County select a new landfill site in an area that clearly seems destined for more development and residents?

A more remote site for the new landfill, without existing neighborhoods as neighbors would remove these conflicts. Further searches for a suitable property, including conversations with the Bureau of Land Management (BLM), other Federal agencies, State of Oregon and private land owners, need to be undertaken to identify sites that do not encroach on existing neighborhoods.

My immediate request is that the site at 181315 Rickard Rd be removed from consideration as a potential site for the new landfill.

Sincerely,

Robert G. Schuur, Ed.D.
Cell: (541) 241-0750 or,
(213) 713-7040
rgschuur@gmail.com

Tim Brownell

From: Mitch and michelle Steinberg <theuglychip@yahoo.com>
Sent: Friday, January 13, 2023 4:54 PM
To: managethefuture
Subject: New landfill

Some people who received this message don't often get email from theuglychip@yahoo.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

No new landfills should be sited next to existing neighborhoods. The site at 181315 Rickard Road is unsuitable as a future landfill. It should be removed from consideration

**Thanks,
Mitch & Michelle**

Chad Centola

From: E Aspinwall <goneflying.e@gmail.com>
Sent: Thursday, January 12, 2023 4:00 PM
To: managethefuture; CDD Webmaster
Cc: Assignment Desk KTVZ TV - Rick Meyers; info@colw.org
Subject: Help save the Millican Valley

Some people who received this message don't often get email from goneflying.e@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

The Millican Valley is in danger. There is so much about the historic valley that would be in danger if a landfill is allowed to be built there.

I am going to address the very valuable water source that is under the valley. The ground water/aquifer is at it high risk of being contaminated. The facts show the liners used are very susceptible to damage, holes, rips and leaking. The soil in the valley is made up of sand, Mt. Mazama ash and sharp lava rock. All of which would allow any leaking of contamination to go directly to the aquifer.

Central Oregon is in extreme drought and any and all water is so valuable and should be protected at all cost. Not threatened of being destroyed. Please don't gamble with our future our childrens future and the life blood of central Oregon.

I believe it would be easy to say that no one knows what goes in the landfill on a daily basis. St Charles hospital was fined for contaminating the landfill over a period of 45 days with such things as, bloody tubing, bone parts, cartilage, bloody tissue, syringes containing blood, needles, Bloody plastic bags, plastic catheters and biohazard bags containing unknown infections waste.

The scavenger's in the valley are at risk. The Bald and Golden Eagles as well as ravens and owls will certainly be feeding in the landfill and dying. This will start a chain reaction of death in the valley.

The landfill will emit methane gas, high levels of ammonia, greenhouse gas And effect climate change destroying the natural habitat for wildlife. This landfill would bring hazards such as odor, smoke, noise, bugs and water contamination. Death and distruction of natural habitat for wildlife.

Emissions from the landfill pose a threat to human health. Landfill gas can cause irritation of the eye's, nose and throat, headaches, nausea and breathing difficulties.

The pollution of the ground water would be an environmental disaster!

This is a valuable and sensitive ecosystem, I am begging you please don't destroy it. The Millican Valley is holding the lifeblood of central Oregon WATER! please don't gamble with the future.

The future is in your hands, be gentle with it.

Thank you for your time

Frankie Watson

goneflying.e@gmail.com

Bend, Oregon 97703

Tim Brownell

From: Mike Williamson <echo.zulu@hotmail.com>
Sent: Friday, January 13, 2023 11:16 AM
To: managethefuture
Subject: The site at 181315 Rickard Road is unsuitable as a future landfill.

Some people who received this message don't often get email from echo.zulu@hotmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Hello Deschutes County Planners.

Siting a modern landfill as close to an urban area as the site on Rickard Road is, would be poor planning. With 13 potential sites and many sparkly or uninhabited acreages in Deschutes County available. A location further out from the urban area would serve the county citizens better. Being commercial only eliminates the need for easy access.

Regards

Mike Williamson
echo.zulu@hotmail.com
360-903-9251

Tim Brownell

From: Elizabeth Wright <wrightes@verizon.net>
Sent: Friday, January 13, 2023 5:03 PM
To: managethefuture
Subject: No new landfills near Rickard Road neighborhoods

Some people who received this message don't often get email from wrightes@verizon.net. [Learn why this is important](#)

[EXTERNAL EMAIL]

Hello,

I am writing to voice my argument against the proposed landfill site behind the Rickard Road neighborhoods. There are humans and livestock that call this area their home. There is a reason we live in this part of Bend. It is to enjoy the quiet surrounding environment of the high desert, to find space for our animals and people, and to keep our land clean and sustainable with out traffic.

There is already iincreased traffic along Rickard Road with the recent paving of the road from Gosney to Highway 20. We do not need more big rigs and trailers jostling at high speed down our nearby roads.

No new landfills should be sited next to existing neighborhoods. The site at 181315 Rickard Road is unsuitable as a future landfill. It should be removed from consideration.

Respectfully,

Elizabeth Wright
Resident of Sunridge Homeowners

Tim Brownell

From: Carlee Caster <carleecaster@gmail.com>
Sent: Saturday, January 14, 2023 3:53 PM
To: managethefuture
Subject: Opposition of landfill site 181300

[Some people who received this message don't often get email from carleecaster@gmail.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

To whom it may concern:

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. This parcel is rated by the SWAC as among the least 'environmental quality' in the county.

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Please consider this my strong opposition to this proposed landfill site.

Sincerely,
Carlee Caster

Tim Brownell

From: chelseamarie05 <chelseamarie05@gmail.com>
Sent: Saturday, January 14, 2023 3:43 PM
To: managethefuture
Subject: I oppose Bear Creek landfill site 181300

Some people who received this message don't often get email from chelseamarie05@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Hello,

I am writing to you because I am extremely concerned about the proposed landfill in my neighborhood.

30 years ago my family purchased land on Bearcreek rd, where we built our family home. Growing up on Bearcreek meant safely walking to a neighbors house, riding horses down to the blm, enjoying watching the wildlife in the area, and living a quiet life in our peaceful neighborhood.

There is a huge presence of wildlife in our area. There is an eagle that has always nested on a power pole on ten barr, sage grouse, coyotes, wild cats, many species of birds, owls and so many more have made our neighborhood home. There are herds of deer that frequent our property so often that we have given them names!

This landfill would destroy our neighborhood, and the wildlife we share it with!

Our road is also a popular route for cyclists. It would be extremely unsafe to have such an increase in truck traffic on a quiet road that families frequently walk, ride horses, and cycle down.

Our neighborhood is not the place for your landfill. Below is another letter that has been written with additional concerns from members of our community.

Thank you for your time,

Chelsea Dammier (Tarabochia)

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands

Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Sent from my Galaxy

Tim Brownell

From: dinane58@gmail.com
Sent: Saturday, January 14, 2023 3:07 PM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from dinane58@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.



January 14, 2023

Tim Brownell, Incoming Director
Deschutes County Department of Solid Waste
61050 SE 27th Street
Bend, Oregon 97702

Julia A. Follansbee
Attorney at Law

VIA EMAIL

Re: New landfill; proposed Site ID 181300 (Bear Creek and Cougar Trail/Skywagon Drive Neighborhoods)

Dear Mr. Brownell:

I am responding to your email to Lee Goodrich of January 13, 2023. In particular, I take issue with Deschutes County Legal Counsel's interpretation of **DCC Chapter 18.80 – Airport Safety Combining Zone – AS** -- with respect to Juniper Airpark, 5 OR 5, apparently done in conjunction with the County Principal Planner and the County Senior Transportation Planner. The legal (and planning) advice given demonstrates a profound misunderstanding of aviation and the airports in Deschutes County and results in a misinterpretation of DCC 18.80 and its application to Juniper Airpark.

I quote directly Counsel's interpretation from your January 13 email, and then rebut each statement point by point.

“County Legal advises as follows:

- DIAL shows an Airport Safety (AS) overlay on the COID property, but that fact, in and of itself does not preclude the property from development with a landfill
- The DIAL compatibility table (Table 1) is inapplicable to the Juniper Airpark, per Section 6 which limits application of limitations set forth in the table to Bend, Redmond and Sunriver: *“For the Redmond, Bend, Sunriver, and Sisters airports, the land uses identified in DCC 18.80 Table 1, and their accessory uses, are permitted, permitted under limited circumstances, or prohibited in the manner therein described. In the event of conflict with the underlying zone, the more restrictive provisions shall control. As used in DCC 18.80.044, a limited use means a use that is allowed subject to special standards specific to that use.”*
- The AS zone does not apply to the COID property as a whole but, as an overlay zone, only to those areas defined by the airport's imaginary surfaces
- A landfill would be precluded only in the five imaginary surfaces listed in the table.

A LEGAL CONSULTING FIRM

61510 Cougar Trail Bend, OR 97701 Phone (541) 318-5991 Fax (541) 318-5981 Email: juliafollansbee@appealaid.net

- DCC 18.80 states that, “For the Cline Falls and Juniper airports, the imaginary areas are only defined by the primary surface and approach surface.”
- There is no intersection between the 5 imaginary surfaces and the property in question
- DCC 18.80 does not preclude siting of a landfill on the subject property because the mapped airport surfaces do not intersect the property
- The protected surfaces (RPZ, approach, conical, etc.) of the AS zone do not touch the subject property.
- A sliver of the SE edge of the property lies within the Noise Contour (55dnl) of the AS zone, which does not prohibit any land uses. It only requires sound mitigation.”

1. *“DIAL shows an Airport Safety (AS) overlay on the COID property, but that fact, in and of itself does not preclude the property from development with a landfill.”*

Response: DCC 18.80.010 states: "The purpose of an AS Zone is to restrict incompatible land uses and airspace obstructions *around* airports in an effort to maintain an airport's maximum benefit. . . . Incompatible uses may include . . . uses . . . that might intrude into areas used by aircraft." (Emphasis added). Any interpretation of DCC Chapter 18.80 must consider the clearly stated purpose of this chapter, which is *safety in and around airports*. Counsel’s general remark here, while true in the abstract, does not meaningfully assist in any way with assessing the safety hazards this landfill location poses to Juniper Airpark; specifically, the significant bird strike hazard recognized in DCC 18.80.022EE. Moreover, Juniper Airpark is adjacent to site ID 181300 and is within the six mile limit the Federal Aviation Administration (“FAA”) Advisory Circular No 150/5200-34A dated January 26, 2008 prohibits for the location of a new Municipal Solid Waste Landfill (“MSWLF”) near the Bend Airport. *This six-mile rule is codified into federal law. See 49 U.S.C. § 44718(d)(1).* This six-mile rule extends far beyond the imaginary surfaces and the Airport Safety Combining Zone for the Bend Airport, a clear recognition by the FAA that *landfills draw birds and thereby present a hazard for aircraft taking off and landing even at significant distances from airports.* This hazard will exist at private airports as well as public airports located near a landfill, an obvious fact not addressed by County Counsel or the Planners at all in their rush to eliminate the safety considerations for Juniper Airpark near a proposed landfill. Birds in the vicinity of landfills do not discriminate between public and private airports!

2. *“The DIAL compatibility table (Table 1) is inapplicable to the Juniper Airpark, per Section 6¹ which limits application of limitations set forth in the table to Bend, Redmond and Sunriver: ‘For the Redmond, Bend, Sunriver, and Sisters airports, the land uses identified in DCC 18.80 Table 1, and their accessory uses, are permitted, permitted under limited circumstances, or prohibited in*

¹ There is no “Section 6” in DCC 18.80.044F or in Table 1; what Counsel refers to here is unknown. Perhaps it is in the DIAL system, but its best reference remains in the Deschutes County Code where it originated, at pages 15-16.

the manner therein described. In the event of conflict with the underlying zone, the more restrictive provisions shall control. As used in DCC 18.80.044, a limited use means a use that is allowed subject to special standards specific to that use. ”

Response: Insofar as Juniper Airpark is within six miles of the Bend Airport, which has received and is receiving federal funding, and Juniper Airpark is immediately adjacent to site ID 181300, it is covered by the six-mile rule of 49 U.S.C. § 44718(d)(1), described above. Table 1 does nothing to countermand this federal law, and any limitations it *may* provide are most likely preempted by federal law. In short, at this point, Table 1 is not helpful to the SWAC or to Deschutes County.

3. *“The AS zone does not apply to the COID property as a whole but, as an overlay zone, only to those areas defined by the airport’s imaginary surfaces.”*

Response: It is true the AS zone does not apply to the COID property as a whole. However, here Counsel confuses an AS overlay zone with Juniper Airpark’s imaginary surfaces and at the same time contradicts its statement in No. 1 that “DIAL shows an Airport Safety (AS) overlay *on the COID property.*” (Emphasis added.) Juniper Airpark’s imaginary surfaces are *only* its 200’ wide by 2,640’ long *runway* and its 250’ wide by 2,500’ long by 450’ wide *approach surface*, which has an upward approach slope ratio of 20:1 (one-foot vertical for each 20 feet horizontal). DCC 18.80.040. Juniper Airpark’s overlay zone is not to be confused with these imaginary surfaces. “In any zone that is overlain by an Airport Safety Combining Zone (AS Zone), the requirements and standards of DCC 18.80.010 shall apply . . . The imaginary surfaces *and zones*; boundaries and their use limitations comprise the AS Zone.” DCC 18.80.010. This makes clear that “imaginary surfaces” and “zones” are not the same thing. Moreover, an “Airport Safety Combining Zone is *defined* “as a Deschutes County zone intended to place additional land use conditions on land impacted by the airport . . . [t]he airport imaginary surfaces, impact areas, boundaries and their use limitations comprise the AS Zone. The AS Zone may apply to either public-use *or private-use airports.*” DCC 18.80.022H. (emphasis added). It is clear from this definition that Juniper Airpark’s AS Zone protects far more than just its approach surfaces and runway.

4. *“A landfill would be precluded only in the five imaginary surfaces listed in the table.”*

Response: Table 1 is obsolete as applied regarding the location of the new landfill proposed as site ID 181300. 49 U.S.C. § 44718(d)(1) covers this site and the immediately adjacent Juniper Airpark in its prohibition of a new landfill within six miles of the Bend Airport. To be fair, it is unlikely County Counsel was aware of Advisory Circular 150/5200-34A and 49 U.S.C. § 44718(d)(1). Counsel should nevertheless be aware that federal funds always come with federal conditions which, if not followed, can entail severe consequences. If site ID 181300 were selected, it would run head-on into the six-mile prohibition in 49 U.S.C. § 44718(d)(1).

5. *“DCC 18.80 states that, ‘For the Cline Falls and Juniper airports, the imaginary areas are only defined by the primary surface and approach surface.’ ”*

Response: This is true, but it appears Counsel may be quoting DCC 18.80.022E because Counsel is confusing imaginary areas with the AS Zone, which are separately defined in DCC 18.80.022E

& H, as discussed above. Imaginary surfaces and AS Zones are two different things. Is Counsel denying here that Juniper Airpark has an AS Zone? In any event, how does this comment even begin to aid SWAC and Deschutes County in its decision-making about the location of a new landfill?

6. *"There is no intersection between the 5 imaginary surfaces and the property in question."*

Response: First, the Deschutes County Code is clear that Juniper Airpark has 2 imaginary surfaces, not 5. Second, if this is a reference to Table 1, that Table is of limited, if any value given the mandate of 49 U.S.C. § 44718(d)(1). Third, a color map showing Juniper Airpark's approach surfaces and primary surface (runway) is included in County Counsel's remarks. Regarding this map, Counsel states: "It appears the *AS confusion* stems from the Noise Contour component of DCC 18.80, which is the purplish line shown in the image below." The purplish line is indeed a noise contour boundary, but it is also the boundary of the AS Zone for Juniper Airpark, as shown on many a Deschutes County planning document (as it must be). The provision of an AS Zone for Juniper Airpark in DCC 18.80 cannot be dismissed in this way; otherwise there would be no reason to include Juniper Airpark at all in DCC 18.80. Because the purplish line shows the AS Zone, it does indeed intersect the proposed landfill site ID 181300, as easily seen on the map included in the email. Any confusion here is solely County Counsel's and the Planners'.

7. *"DCC 18.80 does not preclude siting of a landfill on the subject property because the mapped airport surfaces do not intersect the property."*

Response: same as above. The AS Zone definitely intersects the landfill site. Here again, imaginary surfaces are conflated with an AS Zone.

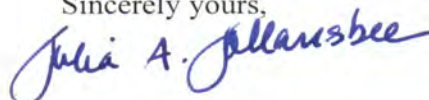
8. *"The protected surfaces (RPZ, approach, conical, etc.) of the AS zone do not touch the subject property."*

9. *"A sliver of the SE edge of the property lies within the Noise Contour (55dnl) of the AS zone, which does not prohibit any land uses. It only requires sound mitigation."*

Response to 8 and 9: same as Responses 6 and 7. Counsel again eliminates Juniper Airpark's AS Zone, contradicting the whole purpose of DCC Chapter 18.80 by confusing it with a Noise Protection Boundary and contradicting its other statements. The issue here is *not* the noise boundary, but the hazard to airplanes from bird strikes and other safety issues outlined in DCC 18.80.044B, C, D, and E for Juniper Airpark's AS Zone.

In short, the federal law codified in 49 U.S.C. § 44718(d)(1) highly likely preempts any local law in siting a new landfill where the Bend Airport is the recipient of federal funds. Also, a basic misunderstanding of the Deschutes County Code on Airport Safety Combining Zones as applied to Juniper Airpark do not assist in the location of a new landfill. Both federal and local law demonstrate a "fatal flaw" in proposing ID 181300 as a new landfill anywhere near the Bear Creek/Cougar Trail/Skywagon Drive Neighborhoods..

Sincerely yours,



Tim Brownell

From: Cheryl <jumpseatryder@gmail.com>
Sent: Saturday, January 14, 2023 3:35 PM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from jumpseatryder@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. ***This parcel is rated by the SWAC as among the least 'environmental quality' in the county.***

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Cheryl Giannini
61700 Cougar trail
Bend, Oregon. 97701

Tim Brownell

From: Jason Gockel <gockelja@gmail.com>
Sent: Saturday, January 14, 2023 4:19 PM
To: managethefuture; Chad Centola
Cc: solidwaste
Subject: Opposition to Landfill Site 181300

[Some people who received this message don't often get email from gockelja@gmail.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

To whom it may concern,

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed. Further it will reduce the overall well-being of people, animal, and ecosystem alike.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. This parcel is rated by the SWAC as among the least 'environmental quality' in the county.

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Thank you,
Jason Gockel

Tim Brownell

From: LB Gossett <lb@bendforestschool.com>
Sent: Saturday, January 14, 2023 7:24 PM
To: managethefuture
Subject: Landfill on site 181300

Some people who received this message don't often get email from lb@bendforestschool.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. This parcel is rated by the SWAC as among the least 'environmental quality' in the county.

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--

LB Gossett
Kindergarten Teacher, Kindergarten Program Developer and Ghost Rock Ranch Site
Supervisor
[Bend Forest School](#)

Tim Brownell

From: Alec Hamilton <BOEINGAV8TER@msn.com>
Sent: Saturday, January 14, 2023 3:15 PM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from boeingav8ter@msn.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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Alec S Hamilton
61700 Cougar trail
Bend, Oregon 97701

Sent from my T-Mobile 5G Tablet
Get [Outlook for Android](#)

Tim Brownell

From: larrynlynn@lhanlons.net
Sent: Saturday, January 14, 2023 5:00 PM
To: managethefuture; Patti Adair; Phil Chang; Tony DeBone
Cc: lisa.machnik@gmail.com; artist777@ykw.net; ghower@hower-engineering.com; hhower@hower-engineering.com; dwlee333@gmail.com; LarrynLynnHanlon@cs.com
Subject: Deschutes County waste disposal

Some people who received this message don't often get email from larrynlynn@lhanlons.net. [Learn why this is important](#)

[EXTERNAL EMAIL]

To: Deschutes SWAC and Deschutes County Commissioners

I have recently learned that the proposed new landfill site known as 181315 along Rickard Rd is considered to be a good candidate location. I am strongly opposed to that flawed conclusion. It is appalling to look at the decision criteria weightings and discover that sage grouse that might be nesting 3 miles away are considered to be 4x more important than **over 100 existing residences** within a mile of the proposed site (14% vs 3% in the weightings). If not brain dead that is certainly a tone deaf analysis. We all want to protect wildlife, but humans are also a species. One has to wonder what else is lurking in the decision criteria and weightings.

Health: Central Oregon is known for clean air and many people live here for that reason. A number of people are dealing with respiratory issues. A quarter mile is only a little over 4 football fields in length, and anyone who has watched the dust clouds that can waft out of the Knott landfill over towards the middle school knows that .25 mile is not a sufficient moat around a landfill. And that's just the visible particles; the smaller, invisible, and more harmful particulates stay airborne longer and travel further. There are other health concerns but in order to keep this to a reasonable length I'll skip those.

Road damage: Rickard Rd from Gosney east to 20 was rebuilt and paved over the past few years and is a very nicely done piece of road, with wide shoulders, a deep subgrade and a thick asphalt overlay. One consequence is that traffic on Rickard has increased noticeably as many semis use it as a shortcut to avoid going into town. Structurally, Rickard west from Gosney to 27th is typical of the rural roads in the area with chip-seal coating and narrow shoulders. In a discussion about a decade ago with the then-new head of the county roads dept. about the ruts that form so quickly, I learned that most of our rural roads are chipseal over dirt, and that to rebuild them properly costs more than 10x just adding another chip layer. Trash trucks and fire trucks are known for particularly high axle loadings; fire trucks (hopefully) only occasionally have to use the rural roads and so do not initiate a lot of damage, however numerous heavy trash trucks per day will degrade the older part of Rickard. So rebuilding that piece of road would need to also be considered as part of the startup costs.

The bigger picture: All of the focus I've seen so far has centered on a new landfill site. That would have made sense several decades ago but today there are more opportunities.

Why are we looking for a local landfill? Why not leverage sound solutions that have been put in place over the past two decades? It seems entirely possible that we can put in place an effective solution that costs the County less, both initially and in operating expense.

In Roosevelt WA and Arlington OR there are massive landfills with 100+ year capacity and ample room for expansion. Republic Services runs the Roosevelt site, Waste Management runs the Arlington site (Columbia Ridge), and each is served by a major rail line. They are across the Columbia River from each other east of the Dalles. The geology is sound, as each sits on an impenetrable layer of clay, the rainfall is slight, and the area is very lightly populated, all factors which contributed to their approval in the first place.

BNSF has for nearly 2 decades been delivering 3 heavy trains per day from Seattle to the Roosevelt site, and one or more from Spokane. UP delivers a train per day from Seattle to the Arlington site, and used to deliver one from Napa CA as well. These are handled as high-priority freight, in part because of the need to keep the containers in circulation. Portland sends 80 trucks per day to the Arlington site. This overall concept of a remote landfill has been implemented by medium and large cities in many parts of the country, and rail is usually the preferred transportation because of the large fuel efficiency advantage compared to trucks. And we are fortunate to have a modern class I rail line that runs through our county and goes north to the Columbia gorge.

Bend is a crew change point, so every train stops here. There is also a local that runs from Bend to Madras twice a day serving local industries and Prineville Jct. (the City of Prineville Rwy). And there is a through train every day from Barstow CA to Pasco WA (and the reverse) that runs right past the waste facility at Roosevelt.

So my question is: why not build a trash container transfer station in Deschutes rather than a landfill? It would have a much smaller footprint and thus be easier to find a site. It would want to be near 97 and the BNSF and away from residential areas. One such location might be just north of Redmond, where there is already a petroleum products transfer and the junction with the City of Prineville Rwy. Nearby is the existing Negus transfer station and the proposed landfill site #151300. It should be possible to get a spur in there from the BNSF or the CoP; there is also the advantage that there is space to store some empty railcars to ensure availability and to stage pickups of loaded cars away from human noses. Although I must say, I visited the Roosevelt facility quite by chance back before covid, and was impressed by the efficiency of the operation and the relative lack of odors since the containers are all closed.

The container transfer facility would be an enclosed structure, and would want to be designed so that trash containers either on railcars or on truck chassis could be loaded. That enables a backup plan of trucking the trash to Roosevelt or Arlington should there be an extended line closure on the BNSF. As it turns out, that trip up 97 and 84 would be about 150 miles, about the same as the trip from Portland to Arlington. The containers are a standard size and would fit a number of styles of railcars and truck chassis.

Another possible trash container transfer location might be just south of LaPine, near the railroad location of Beale, but we'll stop because this is already a long note.

In short, the concept of moving municipal trash out by rail seems particularly well suited to our situation in Deschutes and could conceivably solve the waste disposal problem in a cost-effective manner. The devil is always in the details of course, so an in-depth analysis should be conducted to get to trustworthy life-cycle cost estimates.

Sincerely,
Larry Hanlon.

Lawrence R Hanlon, PhD
Bend

Tim Brownell

From: Jordan <appaloosat@gmail.com>
Sent: Saturday, January 14, 2023 6:44 PM
To: managethefuture
Cc: Chad Centola; solidwaste
Subject: Landfill

[Some people who received this message don't often get email from appaloosat@gmail.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. This parcel is rated by the SWAC as among the least 'environmental quality' in the county.

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Tim Brownell

From: Miriam Lipsitz <hollyhob7@gmail.com>
Sent: Saturday, January 14, 2023 7:43 PM
To: chad.centola@deschutescounty.org
Cc: solidwaste; managethefuture
Subject: opposition to site #181300

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[EXTERNAL EMAIL]

I am absolutely, unequivocally opposed to siting Bend's new landfill at site #181300, off Bear Creek Road.

I do understand that there is no question that we need to find the right place for a new landfill. It's just that this site off Bear Creek Road isn't it. A half mile from our recently established Badlands Wilderness is an egregious mistake and it would be located INSIDE the 6 mile FAA's boundary line for construction of any new landfill , meaning it is too close to the Bend Municipal Airport runway.

This neighborhood off Bear Creek Road is a settled, tranquil and inappropriate neighborhood and would be impacted in every possible negative way for many years to come.

I don't know how many other possible sitings have been suggested, but other than siting it right next door to the Badlands Wilderness (which I understand is actually another possibility equally as shameful as this site #181300), please don't let this happen.

Please let us not regret this decision. This neighborhood is where the folks would have to live with the consequences for years to come, and peace and tranquility will disappear.

We all care deeply about making the most thoughtful and respectful choice for the siting of our new landfill and THIS IS NOT IT!

Miriam Lipsitz
Bend, OR

Tim Brownell

From: Chris Lowell <pahs@aol.com>
Sent: Saturday, January 14, 2023 5:38 PM
To: managethefuture
Subject: Landfill opposition

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[EXTERNAL EMAIL]

oppose a landfill on Site 181300.

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Turning left onto Ten Barr from HWY 20 is already dicey. It would require widening HWY 20 and adding a turn lane. Both Bear Creek and Ten Barr are narrow two lane roads, that already require yearly maintenance. In front of my house on Ten Barr there is an area that has to be filled and fixed yearly because it breaks down from the weekly garbage and recycling trucks. These roads were not designed for daily heavy truck traffic. Paving on Bear Creek ends at Ten Barr, the rest being a narrow gravel road that would need to be rebuilt and paved.

Siting a landfill so close to these homes will cause a significant loss in value to the properties. I was a real estate appraiser for twenty five years, and I know what I'm talking about.

We experience a lot of wind in this area. I can only imagine the smells and trash that we would have to endure on a normal day, and a windy day would be worse.

A landfill is NOT the highest and best use of this land. We all know that as Bend continues to grow, the urban growth boundary will eventually have to be expanded, and that means to the east and south.

This is a family neighborhood. The location of a landfill on this parcel is totally inappropriate. It is a route taken by bicycle riders, walkers, runners and horse riders.

I only heard about this proposal through the one neighbor who received a notification. I never received any communication about the proposal although I live on Ten Barr Ranch Rd and would be severely impacted by the location of a landfill. It appears that very few people have been notified of this proposal, which is unacceptable. Chris Lowell and Dick Lowell, 61785 Ten Barr Ranch Rd, Bend[Sent from the all new AOL app for iOS](#)

Tim Brownell

From: Chris Lowell <pahs@aol.com>
Sent: Saturday, January 14, 2023 5:36 PM
To: managethefuture
Subject: Landfill Opposition

Some people who received this message don't often get email from pahs@aol.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

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Siting a landfill so close to these homes WILL cause a very significant loss in value.

A landfill is NOT the highest and best use of this land. We all know that as Bend continues to grow, the urban growth boundary will eventually have to be expanded, and that means to the east and south.

This is a family neighborhood. The location of a landfill on this parcel is totally inappropriate. It is a route taken by bicycle riders, walkers, runners and horse riders.

[Sent from the all new AOL app for iOS](#)

Tim Brownell

From: Tom Newton <tlnewton541@gmail.com>
Sent: Saturday, January 14, 2023 4:28 PM
To: managethefuture; Chad Centola
Cc: solidwaste
Subject: Opposition to landfill Site 181300 off Bear Creek Road

Some people who received this message don't often get email from tlnewton541@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Solid Waste Advisory Committee,

Our family has lived on property and operated a small ranch at 22930 Bear Creek Road for over 53 years, and is where I spent my entire childhood. My wife Tracy and I own a parcel of this property and are in the planning phases to build our “forever” home at 22990 Bear Creek Rd to escape the hustle of city life and return to a more rural lifestyle.

It has recently come to our attention that Deschutes County is planning to relocate the Knott Landfill. Of the 32 sites under consideration, their #1 location is a site at the end of Bear Creek Road that is owned by COID. This news was a huge shock and raises enormous concerns for a variety of reasons. We as a family and neighborhood are taking this threat to our neighborhood’s rural and mostly agricultural lifestyles very seriously.

The COID property borders BLM and is abundant with wildlife including deer, elk, eagles and coyotes to name a few. There is even at least one established bald eagle nest in very close proximity, and likely more. It is also home to countless old growth juniper trees and natural rock outcroppings that provide habitat for wildlife. The adjacent BLM property also provides for a tranquil and peaceful place for families to walk and experience the natural landscape. Very few places like this still exist this close to Bend.

Below is a list of our primary concerns and why we adamantly oppose this site for a landfill.

1. The commercial truck traffic associated with the landfill is estimated to be between 80-100 trucks/day, or twice that if you consider round trips. That number would more than double as population increases over time, and ruin the quiet rural lifestyle of our neighborhood and compromise the safety of children and adults walking or riding bicycles on Bear Creek Road and Ten Bar Road.
2. The noise, smell, and airborne debris would have a drastic negative affect on our property values and quality of life.
3. The risk of polluting nearby domestic water wells and the aquifer are serious safety concerns
4. Pollution of nearby BLM and COID property.
5. Destruction of high value EFU property.
6. Roads leading to this proposed site are not designed for heavy truck traffic, and would have to be completely rebuilt. This would require widening and acquisition or destruction of our properties to acquire right of way.
7. Archeological impact to the old growth juniper and rock outcroppings.
8. Destruction of valuable habitat for a variety of wildlife species.
9. The proximity of this proposed site to at least one airport is very concerning, just over 4 miles from Bend Municipal Airport and completely adjacent to another private airfield, directly in violation of Deschutes County's own code and FAA rules.

This isn't just about not having a landfill “in our back yard”. No one should ever be forced to have a landfill in their backyard! It should be located far away from populated areas, adjacent to a major highway and certainly not in a neighborhood!

Thank you for your consideration,

Tom Newton
22990 Bear Creek Rd, Bend OR 97701
63227 Bedrock Ct, Bend OR 97701 (mailing)

TNewton541@gmail.com
541-480-3169 (cell)

Tim Brownell

From: cat o'connor <cato8760@gmail.com>
Sent: Saturday, January 14, 2023 4:45 PM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from cato8760@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting, and landfill truck traffic will destroy this tranquil, rural lifestyle. My property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state.

Wildlife species that inhabit the area include Yellow-Bellied Marmots, Bobcats, Mule Deer, Elk, and Antelope. It is a ***crucial winter range*** for Mule Deer.

Avian species include Prairie Falcons and Golden Eagles.

Site 181300 is 0.7mi from the Badlands Wilderness boundary.

This parcel is rated by the SWAC as among the least 'environmental quality' in the county.

***** The FAA requires the construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds.***

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway.

The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a ***training area*** for fixed-wing and rotor aircraft.

Life Flight is based there.

Landfills draw birds and bird strikes cause aviation accidents.

The safety of all persons operating those aircraft and the people on the ground ***should be a number one priority.***

Thank you,
Cat O'Connor

23625 Bear Creek Road

Tim Brownell

From: Lina K Raftshol <lraftshol@gmail.com>
Sent: Saturday, January 14, 2023 7:23 PM
To: Chad Centola; managethefuture; solidwaste
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from lraftshol@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

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Respectfully,
Lina K. Raftshol
541-815-1807

Tim Brownell

From: kristen ross <ross595@msn.com>
Sent: Saturday, January 14, 2023 4:11 PM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from ross595@msn.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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Thank you,
Kristen Ross
Sent from my iPhone

Tim Brownell

From: Mike Schrader <mike@epicaircraft.com>
Sent: Saturday, January 14, 2023 3:10 PM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from mike@epicaircraft.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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--

Mike Schrader
Epic Aircraft, LLC

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Tim Brownell

From: Louise Shirley <louiseakshirley@gmail.com>
Sent: Saturday, January 14, 2023 7:15 PM
To: managethefuture; Chad Centola
Cc: solidwaste
Subject: Opposition to landfill, site 181300

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[EXTERNAL EMAIL]

To whom it may concern,

I am writing to voice my strong opposition to a landfill on Site 181300.

I ride in the area and it is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. It's the most peaceful place I know of in Bend. As someone with a background in ecology, I very much value the area for the quality of wildlife habitat.

A landfill in this area will create noise, debris, foul odors, and traffic. It will permanently destroy this tranquil, rural place that's extremely special to me and so many others. It will also put wildlife at risk.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcats, mule and deer. It is crucial winter range for mule deer, a species in dramatic decline in Central Oregon. Avian species include great horned owls and eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary.

There are domestic wells and agricultural canals adjacent to the sites that would also be at risk of contamination.

Thank you for taking my comments into consideration.

Best,
Louise Shirley

Bend, OR

Tim Brownell

From: Lisa T <lmtara@yahoo.com>
Sent: Saturday, January 14, 2023 4:42 PM
To: managethefuture; Chad Centola; solidwaste
Subject: OPPOSITION TO PROPOSED LANDFILL SITE #181300

Some people who received this message don't often get email from lmtara@yahoo.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

This is to voice my extreme opposition to proposed landfill site #181300 at the end of bear creek rd. This area is a vibrant, well established neighborhood full of hard working families, farms, ranches and equestrian facilities. NOISE,HEAVY COMMERCIAL TRUCK TRAFFIC,DEBRIS, ODOR, EXCAVATION/BLASTING will destroy this area, and devastate those of us who have made this our home for MANY years. Additionally, property values will be destroyed for all of us. There are domestic wells and agricultural canals adjacent to the site that poses a high risk of contamination. We value our families too much to let this happen.

This site is within the Bad Lands wilderness ecoregion, designated by the US Congress in 2009, and consists of Old growth juniper, including trees that are some of the oldest in the STATE OF OREGON. Wildlife species that inhabit the area include MULE DEER, ELK, ANTELOPE, BOBCAT, YELLOW BELLIED MARMOTS. (I personally have photos of their activity on my property) IT IS A CRUCIAL WINTER RANGE FOR SAID MULE DEER. Avian species include PRAIRIE FALCONS,GOLDEN EAGLES , BALD EAGLES and numerous other migratory birds. Site #181300 is 0.7 miles from the wilderness boundary. This parcel is rated by the SWAC as among the least” environmental quality “ in the county.

Site #181300 is 4.14 miles away from the Bend Municipal Airport runway. The FAA requires construction of ANY Landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower and master plan. The airspace is a training area for fixed wing and rotor aircraft, with LIFE FLIGHT based there. Safety of the persons operating those aircraft, AND the people on the ground should be a #1 priority. Landfills draw a mass amount of birds, and bird strikes cause aviation accidents.

The SWAC Teams scoring for traffic related impact was 5%. This is SEVERLY short sided.

My opposition also includes these issues, in no particular order. Zoning, Health and welfare, residential impacts, trucking issues, traffic, rodent issues, loss of recreational usage, litter, air pollution, ground water, noise and light pollution, odor, dust and wind, as well as visual ugliness. In addition, our neighborhood was only made aware of this site a few weeks ago, when it has been in discussion with you all since early last year. Only ONE person in our neighborhood was notified by letter..... This does Not seem very transparent on the County's end.

Thank you for your time

Respectfully, Lisa M. Tarabochia
23255 Bear Creek Rd
Bend Oregon.

Sent from [Mail](#) for Windows

Tim Brownell

From: James Adkisson <jadkisson32@yahoo.com>
Sent: Sunday, January 15, 2023 11:49 AM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from jadkisson32@yahoo.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

Sent from my iPhone

Chad Centola

From: Craig Albin <centraloregoncowboyenterprises@gmail.com>
Sent: Sunday, January 15, 2023 5:11 PM
To: Chad Centola; managethefuture; solidwaste
Subject: Oppose a landfill on site 181300

Some people who received this message don't often get email from centraloregoncowboyenterprises@gmail.com. [Learn why this is important](#)

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This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

How can a family neighborhood even be considered for a potential landfill?!

Chad Centola

From: Misty Bettis <mustangmistys@msn.com>
Sent: Sunday, January 15, 2023 2:34 PM
To: managethefuture
Subject: Landfill proposed Site ID: 181315 on Richard Rd

Some people who received this message don't often get email from mustangmistys@msn.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom it may concern,

As someone who lives near this area, I would like to object to this site as a proposed landfill. There are too many homes in this area. I know we are "out of town," but there are many homes near this location. In addition, we have a great deal of wildlife, domestic and farm animals, out here. A landfill in the area brings additional pests and birds, which can spread disease. Pests and birds are issues we all already deal with on a regular basis, I can't imagine what it would be like with a landfill down the road.

There are many reasons not to put a landfill next to residential homes: groundwater contamination, disease, infestation, and pollution of a beautiful area. Also, we need to think ahead. There was not much around the current landfill when it was established and I'm sure at the time it seemed great. Now it's next to all kinds of things, including a school. We have to assume Bend will continue to grow and so will this area.

I get that no one wants this in their neighborhood, but with all the open land east of us, I can't imagine why we can't ensure it's not in anyone's backyard.

Thank you for your time.

Sincerely,
Misty Bettis

Chad Centola

From: Bridgette Bochner <blbuccini@gmail.com>
Sent: Sunday, January 15, 2023 4:15 PM
To: managethefuture
Subject: Re: Proposed Landfill Site ID: 181315

Some people who received this message don't often get email from blbuccini@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To the Solid Waste Advisory Committee,

The proposed landfill site off Rickard Rd, site ID 181315, threatens the health and safety of hundreds of residents living close to the site. There are hundreds of homes within a one-mile radius and many more within a two-mile radius of the proposed site. It has been well documented in literature how a landfill can impact community members who live within a 1-2 mile radius with the increasing prevalence of brain, lung, and bladder cancers. Additionally, those community members will be significantly exposed to inhaling endotoxins, gases, microorganisms, and dangerous aerosols. Furthermore, rodent and bird infestations will impact surrounding homes. Moreover, there are significant concerns related to water contamination with an irrigation canal within one mile of the proposed site.

Bend is growing rapidly with exponential growth expected in the coming decade and decades resulting in more community members moving into this area increasing the negative impacts of the proposed landfill to more residents. Contrasting to a landfill where the growth of a community moves toward an existing landfill, a proposed 100-year landfill that is placed within an established and growing residential area is unhealthy, unsafe, and crippling to a community.

As a medical community member, I implore you to remove this site and any other proposed sites where residents live in close proximity. The health and safety of our residents are at significant risk, which your committee can mitigate if you focus your attention on sites where our community members will not suffer its negative impacts.

Sincerely,

Bridgette Bochner

Tim Brownell

From: erica callfas <erica@isellco.net>
Sent: Sunday, January 15, 2023 12:07 PM
To: managethefuture
Cc: Chad Centola; solidwaste
Subject: I oppose a landfill on Site 181300

Some people who received this message don't often get email from erica@isellco.net. [Learn why this is important](#)

[EXTERNAL EMAIL]

I adamantly oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

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Kindly,
Erica Callfas



Erica Callfas

Licensed Broker in the State of Oregon
Farm, Ranch and Vineyard Division

www.cascadesothebysrealty.com

650 SW Bond St, Suite 100, Bend, OR 97702
erica.callfas@cascadesir.com
M: 541.848.1857 O: 541.383.7600

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Tim Brownell

From: erica callfas <erica@isellco.net>
Sent: Sunday, January 15, 2023 12:07 PM
To: managethefuture
Cc: Chad Centola; solidwaste
Subject: I oppose a landfill on Site 181300

Some people who received this message don't often get email from erica@isellco.net. [Learn why this is important](#)

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Kindly,
Erica Callfas



Erica Callfas

Licensed Broker in the State of Oregon
Farm, Ranch and Vineyard Division

www.cascadesothebysrealty.com

650 SW Bond St, Suite 100, Bend, OR 97702
erica.callfas@cascadesir.com
M: 541.848.1857 O: 541.383.7600

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Tim Brownell

From: Barb Cass <bccass@bendbroadband.com>
Sent: Sunday, January 15, 2023 8:45 AM
To: Chad Centola
Cc: solidwaste
Subject: Oppose the landfill

[Some people who received this message don't often get email from bccass@bendbroadband.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification>]

[EXTERNAL EMAIL]

I oppose the landfill
On site181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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Sent from my iPhone

Chad Centola

From: Greg Copley <gregcopley@gmail.com>
Sent: Sunday, January 15, 2023 8:06 PM
To: managethefuture
Subject: Site selection criteria

Some people who received this message don't often get email from gregcopley@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

DATE: 1/14/23
TO: **Chad Centola Deschutes County Department of Solid Waste**
SUBJECT: Site Selection Criteria
PROJECT NUMBER: 553-2509-009
PROJECT NAME: Deschutes County Landfill Facility Siting

Dear Chad Centola and Committee Members,

I am formally writing to voice my ***strongest opposition*** to the proposed site of a new Landfill Facility Siting in **Millican, Oregon. Specifically SITE ID: 191400-3300, Site ID: 151300 and SITE ID: 201500-300**

After much consideration and research of the Tech Memo from your consulting firm Parametrix, it seems that there are many reasons a different location should be chosen.

#1 Site Characteristics

- A) Questionable topography to due sandy soils and lack of proper silts and clays to provide a non-permeable layer for leachate contamination.
- B) Distance and drive time from transfer stations and the big hill over Horse Ridge will increase the carbon footprint of the project. Additionally, the road is quite dangerous in the wintertime.
- C) Higher elevation by nearly 1000ft increases the amount of snow and the temperatures are generally 20-30 degrees colder than Bend. This could possibly affect daily operations and equipment use.
- D) Danger to the Aquifer under the Millican Valley.

#2 Natural Environments

- A) Threatened and Endangered Species: the Millican Valley is within the Wildlife Combining Zone that includes the Antelope Migration Zone and is adjacent to the North Paulina Deer Winter Range.
- B) The Greater Sage Grouse habitat extends throughout the whole Millican Valley.
- C) Endangered Bald and Golden Eagles live and hunt in the Millican Valley year-round.

#3 Land Use

- A) There are many user groups that use the Millican Valley.
 - a) Paragliders(Pine Mountain is one of the best spots in the state).
 - b) OHV (off-road vehicles) trail system is already in place and heavily used.
 - c) Designated shooting range is in The Millican Valley and is heavily used.
 - d) Mountain bikers and hikers are a heavy user group.
 - e) Pine Mountain Observatory is a huge asset for the county and would be negatively affected by light pollution from the facility.

* In the future, The Millican Valley will no doubt become the next high-profile recreational destination area for Deschutes County users as other local state parks and recreational areas become inevitably overpopulated.

B) The proposed site will be too close to the community of residents that inhabit the Millican Valley. Obvious concerns being noise pollution, light pollution, odor pollution, and traffic pollution all will contribute to the degradation of the surrounding area. These proposed landfill sites will severely impact the quality of life for the residents of Deschutes County.

C) The site proposal is a poor choice because of the high impact on the visual scenic landscape and there is no way to conceal this type of facility in big open terrain.

- D) There are many cultural heritage sites in the Millican Valley:
- 1) Pictographs at the head of the Dry River Canyon.
 - 2) The Millican Wells are an ancient stopping ground for Native Americans traveling from Glass Buttes to collect obsidian; the University of Oregon has an extensive collection of artifacts from the site and there is still standing infrastructure as well left over from the settling of the valley 100 years ago. All of these areas are within close proximity to the proposed sites(1-3miles).

Of the 13 other proposed sites, it appears that the already established transfer site in Redmond would be the obvious choice to due the close proximity and the fact that it is also in an established industrial area.

In closing, I hope that you will consider all of these factors in your choice to NOT put the proposed Deschutes County Landfill Facility Siting in MILLICAN, OR. Choosing this site will degrade the quality of life the Deschutes County residents deserve to have in the next 100 years and beyond. The importance of the MILLICAN VALLEY cannot be overstated for the natural, cultural and environmental resources this beautiful landscape provides our community. PLEASE consider my voice and the voices of many other people in Central Oregon and Deschutes County who need this natural area for the benefit of their health and that of future generations.

Thank you for your time and consideration.

Greg Copley

--
Greg

Chad Centola

From: Jeff Curl <jeff@tricountypaving.net>
Sent: Sunday, January 15, 2023 3:51 PM
To: Tony DeBone; Patti Adair; Phil Chang; Chad Centola; solidwaste
Cc: preserveeastbend@gmail.com
Subject: proposed landfill site 181300

Some people who received this message don't often get email from jeff@tricountypaving.net. [Learn why this is important](#)

[EXTERNAL EMAIL]

Dear County Commissioners and SWAC Committee Members,

I am writing to you to voice my opposition of the proposed landfill site 181300 which is currently owned by COID. My family lives on Ten Barr Ranch Road which is in close proximity to this site. I was born and raised in Bend, and we moved out to this area seven years ago for the horse property and to retain a bit of what Central Oregon used to be. I am well aware no one wants a landfill in their backyard and I'm sure if presented with the same threat, your sentiment would echo that of mine and my neighbors. Removing emotion and selfish bias and considering this site objectively, however, there are several reasons why this is a poor site for a new landfill. I would like to point out five:

- There would be an exorbitant cost to upgrade the road system for truck access to the landfill site. Major intersection improvements, safety re-design of multiple locations, new construction and re-construction of older roads to withstand an increased volume of truck traffic and widening for bike lanes would all be required and would cost millions.
- The proposed site has a delicate ecosystem where a multitude of wildlife species live in an old growth juniper forest. This untouched land has a unique beauty that takes centuries to grow.
- The proposed site is in very close proximity to the The Badlands and would adversely affect this protected region.
- There is a considerable amount of air traffic above the proposed site as this location is within five miles of the Bend Airport and one mile of an airstrip off Cougar Trail. With landfills come birds which would pose a considerable safety hazard for pilots.
- The property value of so many residents and friends of Deschutes County would be in jeopardy.

I realize there is no perfect location for a major landfill. It's a necessary biproduct of how we humans live but no one wants it near them. I strongly feel for the reasons listed that site 181300 should be taken off the list of considered locations as there are better sites that affect fewer people and ecosystems and would be far less costly to construct.

Sincerely Submitted,

Jeff Curl

Tim Brownell

From: Judy Deimel <judydeimel@gmail.com>
Sent: Sunday, January 15, 2023 9:01 AM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from judydeimel@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

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Thanks for your consideration.

Judy Deimel, Ghost Rock Ranch
23525 Bear Creek Road
Bend, Or 97701

Chad Centola

From: Terri Fields <terrigan22@gmail.com>
Sent: Sunday, January 15, 2023 5:32 PM
To: managethefuture; Chad Centola; solidwaste
Subject: Strongly Oppose a potential landfill on site #181300

Some people who received this message don't often get email from terrigan22@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Strongly Oppose a potential landfill on site #181300

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting, and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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There are a variety of other sites that do not compromise people's existing way of life, water availability, and livelihoods.

Please take Bear Creek off the potential landfill options and keep our families safe.

Chad Centola

From: Miranda Follose <mmfollose@gmail.com>
Sent: Sunday, January 15, 2023 8:11 PM
To: managethefuture

Some people who received this message don't often get email from mmfollose@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom It May Concern,

I am emailing to oppose landfill site 181300.

My parents and friends live on Bear Creek Road and their lives would be negatively affected by a landfill site so close to their homes.

We spend a lot of time at my parent's property and are currently homeschooling our children there.

I have several concerns with the proposed landfill:

- Health (water contaminations, air pollution).
- Safety is a big concern (my children will not be able to ride bikes or take walks with 100 plus heavy trucks coming through daily).
- Increased noise with heavier traffic.
- Wildlife.

This proposed landfill would change many people's lives and not in a good way!! THAT IS WHY I OPPOSE IT!

Respectfully,

Miranda Follose (daughter of homeowners at 23450 Bear Creek Road)
541-771-1949

Chad Centola

From: Barbara Gardner <barbarahall99@gmail.com>
Sent: Sunday, January 15, 2023 2:23 PM
To: managethefuture; Chad Centola
Cc: solidwaste; preserveeastbend@gmail.com
Subject: I OPPOSE A LANDFILL ON BEAR CREEK ROAD SITE 181300

Some people who received this message don't often get email from barbarahall99@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Dear Mr. Centola and all concerned,

For the past seven years I have boarded my horse on Bear Creek Road. The ranch at which I board has been a sanctuary for myself and my horse, but possibly more importantly, the owners have allowed their home to be a place of healing to so many. Women with cancer, combat veterans struggling addiction issues, and children learning about the importance of nature and caring for our environment all come to our ranch to experience the healing power of horses and to spend time in a peaceful, beautiful, life-altering environment. By word of mouth, many people in pain and needing healing find the ranch. While they don't participate in any formal programs, they are welcomed to the ranch as friends. They have the opportunity to spend time with horses and just exist in a peaceful, beautiful natural environment that allows them the opportunity to experience a safe place to heal their personal wounds.

The ranch itself has also provided both myself and my horse healing. On the back of my horse, I have meandered many times down Bear Creek Road to its end where it opens to the Badlands Wilderness. Beyond the devastation a landfill in this area will wreak on wildlife species and the environment, it will devastate property values for all of the homeowners along this road. And how again will my horse and I ever ride together down Bear Creek Road without the threat of trucks and traffic mowing us down? How can we even safely ride our horses on private property without being subject to the noise of excavation and blasting? Have you ever sat on the back of a horse when a boom or a large startling sound rings through the air? You had better be a damn good rider or hope you can land without breaking a bone when your horse jumps out from underneath you. How will the toxicity of landfill contents not seep into the groundwater that feeds wildlife, domesticated animals and humans?

While I understand the need for a new landfill, the location on Bear Creek Road at site 181300 is completely inappropriate and destructive. You have identified more appropriate sites that will be far less devastating to humans, property values, and domestic and wild animals and species. Please do not destroy this beautiful, unique and important area of Eastern Bend.

Thank you for your consideration.

Barbara Gardner
Bend, OR
(541) 538-9364
barbarahall99@gmail.com

Tim Brownell

From: brenda grigsby <brendagrigsby1122@gmail.com>
Sent: Sunday, January 15, 2023 11:27 AM
To: managethefuture; chad.centola@deschutes.or; preserveeastbend@gmail.com
Subject: Bear Creek Rd potential landfill Opposition

Some people who received this message don't often get email from brendagrigsby1122@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom it may concern,

I would like to document my protest/opposition of the Landfill being proposed off of the Bear Creek rd area. My elderly father has owned property there for many years now and I have a concern for his safety since the road was not built to handle large amounts of traffic as well as large trucks.

My son and grandchildren also live off of this rd. which again safety is a big concern. The area is a rural farm area and not meant for commercial use.

please accept my protest/opposition of this project.

Sincerely,
Brenda Grigsby, concern citizen of Bend

Tim Brownell

From: Beverly Hanel <bhladyrider@gmail.com>
Sent: Sunday, January 15, 2023 8:48 AM
To: managethefuture
Cc: chad.centoia@deschutes.org; solidwaste
Subject: Landfill site: 181300

Some people who received this message don't often get email from bhladyrider@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom it may Concern:

I oppose a landfill on Site 181300!

This area is a vibrant, well established neighborhood of families, farms, ranches, and equestrian trails!

The noise, debris, odor, excavating/blasting as well as the landfill trucks and public traffic, will destroy the tranquil lifestyle we have moved here to enjoy! It would also destroy our property values! There are also domestic wells and agricultural canals adjacent to the sites that risk contamination!

This site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old juniper growth which are some of the oldest in the state!

Wildlife species that inhabit the area include yellow-bellied marmots, bobcats, mule deer, elk, and antelope which is a crucial winter range! Avian species include prairie falcons and golden eagles.

Site 181300 is 0.7 miles from the Badlands Wilderness boundary! This parcel is rated by the SWAC as among the least "environmental quality" in the county!

Site 181300 is 4.14 miles away from the Bend Municipal Airport! The FAA requires the construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Airport accepts and uses Federal money for several years to fund improvements, i.e., runway extensions, tower and master plan. The airspace is a training place for fixed-wing and rotor aircraft with Life Flight based at this airport.

The safety of the persons operating those aircraft and the people on the ground should be a number one priority! Landfills also draw birds and "bird strikes" cause accidents!

Please do not use this site for a Landfill!

Thanking you in advance, Sincerely, Beverly Hanel

Chad Centola

From: Bear Creek Plumbing <bearcreek.plumbing@yahoo.com>
Sent: Sunday, January 15, 2023 8:17 PM
To: managethefuture
Subject: I oppose landfill site 181300

Some people who received this message don't often get email from bearcreek.plumbing@yahoo.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom It May Concern,

My husband and I have built/remodeled our homes 13 times in 40 years..... In 2006 we spent a full year looking at properties all over Central Oregon for our final retirement home. The real estate flyer to our property on Bear Creek said, "Your piece of Heaven". We were sold! We purchased our 15 acres on Bear Creek in 2007. We have made many memories with family and friends as they have helped us work on our property, build and develop it. We take walks or ride bikes on Bear Creek Road every day possible, that the weather allows. Our grandchildren have grown up feeding the horses at our neighbors and ride their bikes as often as possible on Bear Creek Rd, which is safe and free of heavy traffic and pollutants.

So call it the American dream, or call it our piece of Heaven, all of us have worked hard to have farm animals, raise families, and enjoy our families and friends into retirement... IN THIS EFU RURAL NEIGHBORHOOD!

Now, that is all being threatened by the proposed landfill just down the street, and we OBJECT adamantly!

If the proposal to develop a landfill on Bear Creek Road is carefully examined and all research is done thoroughly, we are confident the conclusion will be that Bear Creek Rd WILL NOT be the best place for this proposed landfill for us or our neighbors!

The following are some of our concerns:

1. Domestic wells located near the site – Health concerns
2. Surface water contamination – Health concerns
3. Ag water contamination – Health concerns
4. Airborne pollutants – Health concerns
5. This area is an active and well populated family community
6. Ranches and farms will be disrupted with noise and pollution
7. Bald eagle, osprey, great horned owls live here
8. Deer, Elk, cougar, racoon, coyote, and other wildlife live here
9. Ancient junipers, lava rock formations and potential historical artifacts will be destroyed forever.
10. **100-200 heavy trucks moving on these neighborhood roads will destroy the safety and tranquility of the area.**
11. There are at least 2 professional equestrian centers near the site
12. There are 2 airports near the site

Thank you for your time on this important matter!

Respectfully,
Connie Hopper

Stacy & Connie Hopper

23450 Bear Creek Rd

Bend, Or 97701

We can be reached at:

541.420.6572

Chad Centola

From: Bear Creek Plumbing <bearcreek.plumbing@yahoo.com>
Sent: Sunday, January 15, 2023 6:48 PM
To: managethefuture
Subject: I oppose landfill site 181300

Some people who received this message don't often get email from bearcreek.plumbing@yahoo.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom It May Concern,

My husband and I have built/remodeled our homes 13 times in 40 years..... In 2006 we spent a full year looking at properties all over Central Oregon for our final retirement home. The real estate flyer to our property on Bear Creek said, "Your piece of Heaven". We were sold! We purchased our 15 acres on Bear Creek in 2007. We have made many memories with family and friends as they have helped us work on our property, build and develop it. We take walks or ride bikes on Bear Creek Road every day possible, that the weather allows. Our grandchildren have grown up feeding the horses at our neighbors and ride their bikes as often as possible on Bear Creek Rd, which is safe and free of heavy traffic and pollutants.

So call it the American dream, or call it our piece of Heaven, all of us have worked hard to have farm animals, raise families, and enjoy our families and friends into retirement... IN THIS EFU RURAL NEIGHBORHOOD!

Now, that is all being threatened by the proposed landfill just down the street, and we OBJECT adamantly!

If the proposal to develop a landfill on Bear Creek Road is carefully examined and all research is done thoroughly, we are confident the conclusion will be that Bear Creek Rd WILL NOT be the best place for this proposed landfill for us or our neighbors!

The following are some of our concerns:

1. Domestic wells located near the site – Health concerns
2. Surface water contamination – Health concerns
3. Ag water contamination – Health concerns
4. Airborne pollutants – Health concerns
5. This area is an active and well populated family community
6. Ranches and farms will be disrupted with noise and pollution
7. Bald eagle, osprey, great horned owls live here
8. Deer, Elk, cougar, racoon, coyote, and other wildlife live here
9. Ancient junipers, lava rock formations and potential historical artifacts will be destroyed forever.
10. **100-200 heavy trucks moving on these neighborhood roads will destroy the safety and tranquility of the area.**
11. There are at least 2 professional equestrian centers near the site
12. There are 2 airports near the site

Thank you for your time on this important matter!

Respectfully,
Connie Hopper

Stacy & Connie Hopper

23450 Bear Creek Rd

Bend, Or 97701

We can be reached at:

541.420.6572

Chad Centola

From: Jordyn Jones Portland Oregon Realtor <jordynj12@gmail.com>
Sent: Sunday, January 15, 2023 11:37 AM
To: managethefuture; solidwaste
Subject: I oppose a landfill on Site 181300.

Some people who received this message don't often get email from jordynj12@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents

Jordyn Jones

Tim Brownell

From: Cheryl Jueal <flyingmanta@reagan.com>
Sent: Sunday, January 15, 2023 8:27 AM
To: managethefuture
Subject: Proposed landfill site at 181315 Rickard Rd

Some people who received this message don't often get email from flyingmanta@reagan.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

January 15, 2023

We object to putting a landfill at 181315 Rickard Rd for many reasons. A few are listed below.

- The location is too close to water canals and will contaminate our water.
- Should not be put near an existing neighborhood community. The landfill should be put out where there is no people or livestock around.
- The subsequent noise pollution, air pollution, light pollution and increased traffic would be detrimental to the fragile environment.

We purchased our home and property in Conestoga Hills to be away from such an adverse and unfavorable environment.

We do not want to see our property value decrease with the existence of a landfill less than a mile away.

Wayne and Cheryl Jueal

Tim Brownell

From: Sara Katz <westridgestables@icloud.com>
Sent: Sunday, January 15, 2023 7:51 AM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from westridgestables@icloud.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

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Sara Katz
61820. TEN BARR RANCH RD

Tim Brownell

From: Kathy Kihara <kathykihara@gmail.com>
Sent: Sunday, January 15, 2023 10:13 AM
To: managethefuture
Cc: solidwaste; Chad Centola
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from kathykihara@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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Kathy Kihara

Sent from my iPad

Chad Centola

From: Michael Lavrich <milavrich@gmail.com>
Sent: Sunday, January 15, 2023 2:56 PM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from milavrich@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Dear Sirs:

I oppose the landfill on Site 181300 for the reasons given below, and would add the roads are not safe for that kind of traffic. For years I bicycled a loop that included Bear Creek and Ten Barr from my home east of Bend, and these roads have narrow or no shoulders. They were only safe to bicycle because traffic was infrequent, and the area so quiet you could hear it coming over the hills.

Respectfully Yours,

Michael Lavrich
61825 Teal Rd.
Bend, OR 97702

I oppose a landfill on Site 181300.

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Chad Centola

From: Ted and Miriam Lipsitz <hollyhob7@gmail.com>
Sent: Sunday, January 15, 2023 9:06 PM
To: Chad Centola
Subject: Fwd: opposition to site #181300

You don't often get email from hollyhob7@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I am resending as I made an error with email address.

Miriam Lipsitz

Sent from my iPad

Begin forwarded message:

From: Miriam Lipsitz <hollyhob7@gmail.com>
Date: January 14, 2023 at 7:43:11 PM PST
To: chad.centola@deschutescounty.org
Cc: solidwaste@deschutes.org, managethefuture@deschutescounty.gov
Subject: opposition to site #181300

I am absolutely, unequivocally opposed to siting Bend's new landfill at site #181300, off Bear Creek Road.

I do understand that there is no question that we need to find the right place for a new landfill. It's just that this site off Bear Creek Road isn't it. A half mile from our recently established Badlands Wilderness is an egregious mistake and it would be located INSIDE the 6 mile FAA's boundary line for construction of any new landfill, meaning it is too close to the Bend Municipal Airport runway.

This neighborhood off Bear Creek Road is a settled, tranquil and inappropriate neighborhood and would be impacted in every possible negative way for many years to come.

I don't know how many other possible sitings have been suggested, but other than siting it right next door to the Badlands Wilderness (which I understand is actually another possibility equally as shameful as this site #181300), please don't let this happen.

Please let us not regret this decision. This neighborhood is where the folks would have to live with the consequences for years to come, and peace and tranquility will disappear.

We all care deeply about making the most thoughtful and respectful choice for the siting of our new landfill and THIS IS NOT IT!

Miriam Lipsitz
Bend, OR

Chad Centola

From: Lisa Machnik <lisa.machnik@gmail.com>
Sent: Sunday, January 15, 2023 9:05 PM
To: managethefuture; Patti Adair; Phil Chang; Tony DeBone
Subject: SWAC Landfill process; objection to site 181315 (Rickard Rd)

Some people who received this message don't often get email from lisa.machnik@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To the SWAC:

First, thank you for your work on this necessary and challenging topic. I have a number of concerns with the current phase of the decision-making process, particularly as they relate to site 181315 - on Rickard Rd.

In your site scoring document you identify several items which are inappropriately scored or weighted; the information presented to date also fails to recognize the necessary calculations for siting a long-term facility. In addition to these practical considerations, there has been limited communication with residents surrounding these sites, and an utter failure to consider the direct economic and health considerations of affected county residents.

My concerns for this specific site - 181315 (Rickard Rd) are presented in detail below. In short, they are primarily, but not limited to:

1. This proposed site appears to be incompatible with FAA safety regulations.
2. It is Inconsistent with current zoning
3. The process provides inappropriate weighting of residential zoning.
4. The process fails to appropriately calculate and represent long term costs.
5. There has been a lack of communication with county residents directly affected by this process.
6. There is a failure to consider economic opportunity costs associated with Bend and Deschutes County growth.
7. Within the process there is an utter failure to consider health considerations for immediately adjacent residents.

Detailed comments follow.

1. Incompatible with FAA regulations.

The citation below (link provided) is from the FAA AC (Federal Aviation Administration Advisory Circular of 2006) and applies to the Bend Municipal Airport (classified by the FAA as a General Aviation Facility and the recipient of federal funding). Based on the contracted report stating the distance between the proposed landfill site at 181315 Rickard Rd and the current airport footprint as 4.65 miles, this is incompatible with FAA regulations for siting new municipal solid waste landfills.

https://www.faa.gov/documentLibrary/media/Advisory_Circular/150_5200_34a.pdf

"1. Purpose. This advisory circular (AC) contains guidance on complying with Federal statutory requirements regarding the construction or establishment of landfills near public airports.

2. Application. The guidance contained in the AC is provided by the Federal Aviation Administration (FAA) for use by persons considering the construction or establishment of a new municipal solid waste landfill (MSWLF) near a public airport. Guidance contained herein should be used to comply with MSWLF site limitations contained in 49 U.S.C. § 44718(d), as amended by section 503 of the Wendell H. Ford Aviation Investment and Reform Act for the 21st Century, Pub. L. No. 106- 181 (April 5, 2000), "Structures interfering with air commerce." In accordance with § 44718(d), as amended, these site limitations are not applicable in the State of Alaska.

(...sections omitted in this email for length, see link provided for additional information...)

10. Separation distance measurements. **Section 44718(d), as amended, requires a minimum separation distance of six statute miles between a new MSWLF and a public airport. In determining this distance separation, measurements should be made from the closest point of the airport property boundary to the closest point of the MSWLF property boundary.** Measurements can be made from a perimeter fence if the fence is co-located, or within close proximity to, property boundaries. It is the responsibility of the new MSWLF proponent to determine the separation distance."

While associated undated regulatory reference from the State of Oregon (OAR 340-94-030 and 40 CFR Part 258) is slightly less restrictive and provides guidance to "include location restrictions for new landfills or lateral expansions of existing landfills" with a '5-mile' requirement for notification to the FAA, the more restrictive federal FAA guidance for aviation safety supersedes state guidance.

<https://www.oregon.gov/deq/FilterDocs/SWGuidance01.pdf> . However, the Airport Land Use Compatibility Guidebook of 2003 from the Oregon Department of Aviation airport planning rule also notes "prohibit new landfills near airports per DEQ standards," - AND references the 6-mile requirement between a proposed new MSWLF and a public airport.

"State regulations governing municipal solid waste landfills by the Oregon DEQ are outlined in OAR Chapter 340, Division 94. These standards track the guidelines for landfill siting and operations outlined in federal law (CFR Title 40, Part 258, Subpart B). To minimize the potential for hazards from bird and wildlife attractants, new landfills and landfill expansions should be developed in keeping with applicable FAA advisory circulars (AC 150/5200-34) to ensure adequate separation from airport environs."

"Section 503 of the Wendell H. Ford Aviation Investment and Reform Act for the 21st Century (AIR-21), Pub. L. No. 106-181 (April 5, 2000) has replaced section 1220 of the 1996 Reauthorization Act, 49, U.S.C. §44718 (d), with new language that further limits the construction or establishment of a MSWLF near certain smaller public airports."

https://www.oregon.gov/aviation/plans-and-programs/Documents/Land%20Use%20Compatibility%20Guidebook/ODA_Land-Use_Guidebook_C5.pdf

It is clearly stated in the table scoring site 181315, that the proposed site is only 4.65 miles from the Bend Municipal Airport, a facility which is undergoing a planning process for potential future expansion. This concern alone, based on the 6-mile FAA separation requirement should eliminate site 181315 from practical consideration.

2. Inconsistent with zoning

Direct from Deschutes County Dial - the following applies to the proposed 181315 (Rickard) property. The presentation states "no GSG zones within 3.1 miles of site"

Zoning Designation 1813150000200

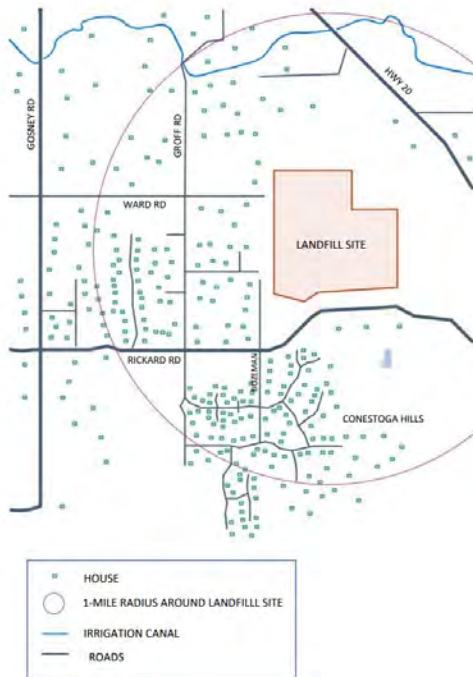
Jurisdiction	Zone	Description	Link to Zoning Code
COUNTY	EFUAL	EXCLUSIVE FARM USE - ALFALFA SUBZONE	View Document
COUNTY	DR	DESTINATION RESORT COMBINING ZONE	View Document
COUNTY	SGHA-GEN	SAGE GROUSE HABITAT AREA - GENERAL	View Document

Zoning Designation 1813150000100

Jurisdiction	Zone	Description	Link to Zoning Code
COUNTY	EFUAL	EXCLUSIVE FARM USE - ALFALFA SUBZONE	View Document
COUNTY	DR	DESTINATION RESORT COMBINING ZONE	View Document

3. Inappropriate weighting of residential zoning.

The SWAC presentation of 12.20.22 notes that: a) the existing adjacent use is residential, b) the planned adjacent use is residential, and c) there are 'several residences within 0.25 miles' - each of those considerations is given the same weight as the proposed landfill site being '0.9 miles from Rickard Road.'" Incredibly, **no** consideration is given to the **over 100 residences within 1 mile of the proposed site**. Once the comparative ranking weights are calculated, the absence of a proximate sage grouse breeding area is weighted at 14% in the analysis, while **the presence of existing residences within 1/4 mile (in some cases only a few hundred feet away) is weighted at only 1.5% of the entire scoring rubric.** See map below with approximate residence locations (all residences not included).



4. Failure to appropriately calculate costs.

Considerations in the analysis include county ownership of this parcel and future transportation costs. Current county ownership is convenient but should not be given primary consideration considering the impact of this proposal for the long term and the availability of willing private sellers with appropriate parcels.

The committee also considers truck transport for the 'next 100 years' but based on information from SWAC representatives, it is completely unrealistic that 30 years from now will see the same diesel/gas fuel reliance-giving this weighting an unrealistic emphasis and lack of consideration for alternatives.

5. Lack of communication with county residents directly affected by this process.

While I have signed up for Deschutes County emails, and live only 1/2 mile from the proposed Rickard site, I only learned about the ranking of the 'top 13' from a neighbor - remarkably the county only sent out letters to the immediately adjacent property owners (approximately 13) and completely ignored the hundreds of residents within 1 mile of the proposed site.

I am also disappointed in the tone taken by members of the committee [i.e. laughter in the meeting of 12.20.22 about not exploring federal lands as options because "...it takes an Act of Congress" (an incorrect statement; use of the BLM Recreation and Public Purposes Act is expressly for purposes such as this, look at the recent example for the Redmond waste water facility expansion)]. If it's 'too hard' to pursue all avenues for this kind of impact to our community, perhaps the process needs additional guidance.

6. Failure to consider economic opportunity costs associated with Bend and Deschutes County growth.

It is appropriate to consider the direct cost to the county of reduced property values and associated reduction in property taxes from the immediately adjacent residences (just considering the homes in Conestoga Hills, a 'low end estimate' of an average 5% reduction in property value would reduce the total property values in that neighborhood by approximately \$5,000,000 dollars). This impact to individual property owners is simply

unacceptable. Owners immediately adjacent to this proposed site stand to lose even more - and to be trapped in their homes, having lost their equity and unable to sell except at significant personal loss.

The committee also fails to account for county growth and the zoning of this parcel as appropriate for potential future residential development; not including the revenue from potential sale, annual Deschutes County tax revenue if ~250 homes were built on this site, can realistically be calculated at up to 1.5M annually. With the current Bend population of over 100,000, forecasted to be over 150,000 by 2035 - where will this development go? East of town, most certainly. Why would you put a landfill directly in the path of growth?

7. Failure to consider health considerations for residents.

The documentation of health hazards associated with living proximate to a landfill is consistent and thorough. While modern landfills work to mitigate many of these concerns, in Central Oregon, our climate results in blowing dust, noise that carries for miles, challenges to wells and aquifers, and much more. Have you seen the dust clouds blowing from Knott? Smelled the landfill from miles away over a period of weeks this past summer and fall? Residents on Bend's southeast side are already impacted by the current landfill, why would a new '100 year' site be located so close to residential areas? Based on the known health risks of small particulate matter, why would you site a landfill significantly bigger than the current Knott operations immediately next to a neighborhood?

Knott Landfill

Annual Sourcewide Plant Site Emission Limits (PSEL)			
Carbon Monoxide (CO)	99 tons/yr	Last Updated:	11/3/2022 12:39:00 PM
Nitrogen Oxides (NOX)	39 tons/yr	Last Updated:	11/3/2022 12:39:00 PM
Sulfur Dioxide (SO2)	39 tons/yr	Last Updated:	11/3/2022 12:39:00 PM
Volatile Organic Compounds (VOC)	39 tons/yr	Last Updated:	11/3/2022 12:39:00 PM
Particulate Matter (PM)	25 tons/yr	Last Updated:	11/3/2022 12:39:00 PM
Particulate Matter (less than or equal to 10 micrometers) (PM10)	14 tons/yr	Last Updated:	11/3/2022 12:39:00 PM
Particulate Matter (less than or equal to 2.5 micrometers) (PM2.5)	9 tons/yr	Last Updated:	11/3/2022 12:39:00 PM
Municipal solid waste landfill gases (NMOC)	49 tons/yr	Last Updated:	11/3/2022 12:39:00 PM
GHG CO2 equivalent (CO2e)	84684 tons/yr		

<https://www.deq.state.or.us/msd/profilerreports/traacs.asp?id=09-0040-TV-01>

I look forward to additional discussion and a transparent process as the county and the SWAC continue to do this necessary work. There are many options that still need to be considered; one option that should be removed from further consideration is parcel 181315 (Rickard Rd).

Thank you for your time,

--
 Lisa K. Machnik, PhD

Tim Brownell

From: Amanda McConnell <kevswife06@gmail.com>
Sent: Sunday, January 15, 2023 8:54 AM
To: managethefuture; Chad Centola
Cc: solidwaste

Some people who received this message don't often get email from kevswife06@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To whom it may concern,

I oppose a landfill on Site 181300.

My husband and I recently moved out to this area with our children to have a safe, quiet, and peaceful place to raise my family. Speaking for our family and neighbors, each of these qualities will be fundamentally violated with a new landfill nearby.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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I urge you to reconsider this location for a landfill.

Sincerely,
Amanda McConnell

Tim Brownell

From: Kevin McConnell <kevdawg82@gmail.com>
Sent: Sunday, January 15, 2023 8:51 AM
To: managethefuture; Chad Centola
Cc: solidwaste
Subject: Bear Creek Landfill Proposal

Some people who received this message don't often get email from kevdawg82@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

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I urge you to reconsider this location for a landfill.

Sincerely,
Kevin McConnell

Chad Centola

From: Joanne Mckee <Joanne@joannemckee.com>
Sent: Sunday, January 15, 2023 2:22 PM
To: Chad Centola
Cc: solidwaste
Subject: Landfill Site 181300

You don't often get email from joanne@joannemckee.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

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Thank you,
Joanne McKee, Broker
Cascade Sotheby's Hasson Realty
541.480.5159

Chad Centola

From: Roberta Nethercutt <artist777@ykw.net>
Sent: Sunday, January 15, 2023 4:35 PM
To: managethefuture; Patti Adair; Tony DeBone; Phil Chang
Cc: lisa.machnik@gmail.com
Subject: Proposed Rickard Rd Landfill

Some people who received this message don't often get email from artist777@ykw.net. [Learn why this is important](#)

[EXTERNAL EMAIL]

There is a proposal to build the new Deschutes Co. landfill east of Gosney on Rickard Rd. However, this potential new landfill site at 181315 Rickard Road is totally unsuitable for this purpose due to its proximity to the homes on both Rickard and adjacent roads that would be negatively impacted by a landfill at this location. Totally ignored are the 150 or so residences within that proposed landfill radius to the Rickard landfill. Noise, lights, odors, aesthetics, property values and other factors, to say nothing of the negative health impacts, should be the "fatal flaws" that would disqualify the site.

As Subtitle D landfill regulations and the difficulty of local landfills take hold across the country, the economies of large-scale disposal sites have become increasingly apparent. With large landfill sites, the costs of meeting the new regulations can be spread over a higher volume of incoming wastes, eliminating the costs and other disadvantages for local landfills.

Waste transmission to landfills by rail is an effective way to transport solid wastes. Barry Vann, the director of environmental logistics for Burlington Northern Railroad's solid waste hauling business, stated "we just completed our \$28 million year (revenue) - it's the best year we've ever had."

Today's local managers should develop an economical transportation network to move solid waste long distances and away from local residential areas. As Subtitle D regulations and the difficulty of siting local landfills take hold across the country, the economies of scale of large, regionally based disposal sites have become increasingly apparent.

There are four large landfills along the Columbia River gorge: Wasco Co. landfill, Columba Ridge landfill, Finley Butte's landfill, and Roosevelt Regional Landfill. Republic Services runs the Roosevelt site, Waste Management runs the Arlington site (Columbia Ridge), and each is served by a major rail line. They are across the Columbia River from each other east of the Dalles. Seattle renegotiated its long-term landfill contract with Waste Management Inc. earlier this year and reaped savings. Portland's Metro government hopes to get a good deal when it rebids next year. Waste transmission by Burlington Northern Railroad to any of the landfills along the Columbia River is the most economical way for Deschutes County to go.

Rabanco's 2,500-acre Roosevelt Regional Landfill in Washington state receives waste by rail and has an estimated 100 years of capacity remaining at current fill rates. Trash arrives by train at Roosevelt from a network of nine intermodal yards that connect the landfill to sources as far away as California, Idaho, and British Columbia. Trash also is received from Alaska on barges. Burlington Northern trains pass through Deschutes Co. on a regular basis. Why not use this railroad and one of Washington's established landfills instead of destroying a beautiful part of where we live?

The proposed Rickard Rd landfill should be removed from consideration.

There is a proposal to build the new Deschutes Co. landfill east of Gosney on Rickard Rd. However, this potential new landfill site at 181315 Rickard Road is totally unsuitable for this purpose due to its proximity to the homes on both Rickard and adjacent roads that would be negatively impacted by a landfill at this location. Totally ignored are the 150 or so residences within that proposed landfill radius to the Rickard landfill. Noise, lights, odors, aesthetics, property values and other factors, to say nothing of the negative health impacts, should be the "fatal flaws" that would disqualify the site.

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We have viable options. The proposed Rickard Rd landfill should be removed from consideration.

Sincerely,

Roberta Nethercutt

Bend Oregon

Tim Brownell

From: Josh Newton <jtnewton541@gmail.com>
Sent: Sunday, January 15, 2023 10:26 AM
To: Chad Centola; managethefuture
Cc: solidwaste
Subject: Opposition to Landfill Site #181300

Some people who received this message don't often get email from jtnewton541@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Josh Newton
22990 Bear Creek Rd. Bend, OR, 97701
63227 Bedrock Ct. Bend, OR, 97701 (Mailing)
(541)480-5261

Tim Brownell

From: Tracy Newton <tracynewton@bendbroadband.com>
Sent: Sunday, January 15, 2023 10:14 AM
To: managethefuture; Chad Centola
Cc: solidwaste
Subject: Opposition to Landfill Site #181300

Some people who received this message don't often get email from tracynewton@bendbroadband.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

Dear SWAC,

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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No one should be forced to have a landfill in their backyard!

Thank you for your consideration,

Tracy Newton
22990 Bear Creek Rd, Bend OR 97701
63227 Bedrock Ct, Bend OR (mailing)
541-419-4247

Chad Centola

From: Fred and Judy Newton <twonewtons@hotmail.com>
Sent: Sunday, January 15, 2023 12:09 PM
To: managethefuture; Chad Centola
Cc: solidwaste
Subject: Opposition to Landfill Site #181300 on Bear Creek Road

Some people who received this message don't often get email from twonewtons@hotmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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Thank you for your consideration,

Fred Newton
Judy Newton
22930 Bear Creek Rd, Bend OR 97701
541-389-1321

Chad Centola

From: James Ockner <ocknerj@gmail.com>
Sent: Sunday, January 15, 2023 9:07 PM
To: Chad Centola; managethefuture
Cc: solidwaste
Subject: Opposition to Proposed Landfill Site 181300

Some people who received this message don't often get email from ocknerj@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

For our property in particular, road safety is of great concern. We are on Ten Barr Ranch Rd 1/3 mile from Hwy 20 and our driveway is just south of the blind curve. April through October, we are regularly entering and exiting Ten Barr Ranch Rd with a large horse trailer. Our rig is 60' long and we take up both lanes to do this. If a driver coming south on Ten Barr Ranch Rd is paying full attention, a regular car or pickup truck can just barely stop in time when going the speed limit. I have serious doubts that a large commercial hauling truck would be able to stop in time. The results of a collision would be catastrophic and could easily involve loss of life.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

Site 181300 is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport has accepted and used federal money for several years and continues to do so to fund its improvements such as runway extension, tower construction, and master plan development. The airspace is a training area for fixed- and rotary-wing aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

More generally, the survey used to make the decision to site the landfill within Deschutes county and site selection process are flawed. Had they been done correctly and honestly, the results would have been entirely different. (1) The survey failed to ask if surveyed residents would be in favor of a local landfill if it

meant that it may be sited adjacent to their property or near enough to their property to significantly reduce their property value, or if it would block access to well-used trails and open space. (2) The survey used to make the decision to site the landfill within Deschutes county misleadingly suggested that the site could take advantage of abandoned open pit mines when no such sites were included in those proposed. (3) Finally, the survey misleadingly implied a large carbon footprint for transportation to a regional landfill when for a 100 year landfill, a large majority of its lifespan trucking will be electric, markedly reducing that impact.

Thank you for your attention to these significant problems with Site 181300.

Sincerely,

James L. Ockner
61805 Ten Barr Ranch Rd

Tim Brownell

From: Jordyn Jones Portland Oregon Realtor <jordynj12@gmail.com>
Sent: Sunday, January 15, 2023 11:37 AM
To: managethefuture; solidwaste
Subject: I oppose a landfill on Site 181300.

Some people who received this message don't often get email from jordynj12@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

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Jordyn Jones

Chad Centola

From: Alexandria Reid <alexandriarayereid@gmail.com>
Sent: Sunday, January 15, 2023 11:02 PM
To: managethefuture
Cc: Chad Centola; solidwaste
Subject: opposition of landfill site 181300

Some people who received this message don't often get email from alexandriarayereid@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

The area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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Thank you,
Alex Reid
22875 hwy 20 bend or 97701

Chad Centola

From: John Reid <johnreid1985@gmail.com>
Sent: Sunday, January 15, 2023 11:05 PM
To: managethefuture
Cc: solidwaste; Chad Centola
Subject: opposition to landfill site 181300

Some people who received this message don't often get email from johnreid1985@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

The area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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Thanks, John Reid

Tim Brownell

From: kristen ross <ross595@msn.com>
Sent: Sunday, January 15, 2023 11:04 AM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from ross595@msn.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

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Emma Ross
Bend, Or

Sent from my iPhone

Tim Brownell

From: kristen ross <ross595@msn.com>
Sent: Sunday, January 15, 2023 10:41 AM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from ross595@msn.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

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Ezra Ross
23100 Bear Creek Rd
Bend Or
Sent from my iPhone

Tim Brownell

From: kristen ross <ross595@msn.com>
Sent: Sunday, January 15, 2023 11:04 AM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from ross595@msn.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

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Emma Ross
Bend, Or

Sent from my iPhone

Chad Centola

From: Lilli Ross <desertlilyfarm@gmail.com>
Sent: Sunday, January 15, 2023 6:22 PM
To: managethefuture; Chad Centola; solidwaste
Subject: Landfill Planning: Sites 181300 and 181315

Some people who received this message don't often get email from desertlilyfarm@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I am a resident who lives and has a horse boarding facility at 23360 Bear Creek Rd and I oppose a landfill at Sites 181300 and 181315.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

The Sites are within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consist of old growth juniper woodlands, containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary Site 181315 is 0.5mi. These parcels are rated by the SWAC as among the least 'environmental quality' in the county.

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports, if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money to fund its improvements such as runway extension, tower, and master plan. The airspace is training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircrafts and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Respectfully,

Lilli Ross

Tim Brownell

From: kristen ross <ross595@msn.com>
Sent: Sunday, January 15, 2023 11:05 AM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from ross595@msn.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

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Tanner Ross
Bend, Or

Sent from my iPhone

Amy Sabbadini



20080 Old Rock House Road
Bend, Oregon 97702
541.788.8461
asabbadi@gmail.com

January 15, 2023

Dear Director Chad Centola,

I oppose a landfill on Site 181300. As a former land use planner, I understand the need for a landfill. However, this is not the spot for it.

First, as Bend's population has boomed, vacant areas have been filled to provide much needed housing leaving most of us to have to travel beyond the city to get to any open space. This proposed landfill site is near one of the closest and most accessible open spaces to Bend. Many of us go to this area to hike, bird watch, and ride horses. My time trail riding in the area around Site 181300 has given me first hand knowledge of the species that rely on this old growth juniper habitat. A landfill here is certainly going to disturb the peace with noise and smells, and the sandy geology makes me worry about the potential for water pollution from the waste. It's also less than a mile from a wilderness boundary.

It would be prudent to locate the new landfill farther from town, in a less frequented area, not so close to our federal public wilderness lands. It should also be sited away from the municipal airport, as I understand the scavenger bird activity could pose quite a safety risk for aircraft.

Thank you for your consideration as you prepare for our community's future.

Sincerely,
Your Name



Chad Centola

From: Kathleen Skatvold <kathleenskatvold@gmail.com>
Sent: Sunday, January 15, 2023 9:09 PM
To: managethefuture
Subject: Opposition to Possible Landfill at 181315 Rickard Rd.

Some people who received this message don't often get email from kathleenskatvold@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To whom it may concern,

Please remove site 181315 Rickard Road from consideration now. It is immediately next to **hundreds** of homes, too close to drinking water source wells, and **there are other options available**.

My concerns are that the following consequences and health risks of the landfill will affect humans, animals, and the greater ecology of the area:

- Air pollution
- Light pollution
- Noise pollution
- Groundwater contamination
- Traffic
- Odor: this summer the Knott Landfill could be smelled in Conestoga Hills many days.
- Decreasing property values

The Knott Landfill was established in 1972 when Bend had a population of 34,804. Now, we have a county population of more than 200,000 and Bend is home to over 102,000 people (as of 2021). Bend will continue to grow, with an expected population of over 153,000 by 2040 - just over 10 years from the planned new landfill opening. Any landfill needs to be appropriately distant from current and future residential areas.

No new landfills should not be sited next to existing neighborhoods. The site at 181315 Rickard Road is unsuitable as a future landfill and should be removed from consideration.

Sincerely,
Kathleen Skatvold

Chad Centola

From: Ellen Smith <holms@att.net>
Sent: Sunday, January 15, 2023 1:26 PM
To: Chad Centola; managethefuture
Cc: solidwaste
Subject: Re: Help please!

You don't often get email from holms@att.net. [Learn why this is important](#)

[EXTERNAL EMAIL]

To Whom It May Concern:

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. ***This parcel is rated by the SWAC as among the least 'environmental quality' in the county.***

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents

Ellen Holmsen

Chad Centola

From: Barbara Sparrow <blssparrow@gmail.com>
Sent: Sunday, January 15, 2023 7:03 PM
To: managethefuture; Chad Centola; Tony DeBone; Patti Adair; Phil Chang
Cc: solidwaste
Subject: Opposition to Proposed Landfill Site Bear Creek 181300

Some people who received this message don't often get email from blssparrow@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination. To this point, my husband and I are highly concerned for our domestic water. We experienced a well failure in March of 2022. This was the well we built our life around and it produced water flawlessly for 30 years. The process of deepening our well was financially and emotionally stressful. Landfills should not be sited near existing wells. A quarter mile (1,320 feet!) is no where near enough buffer for an existing wells cone of depression. The initial site development coupled with the use of the same land for processing and storing waste has great potential for negatively impacting an already fragile aquifer.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Barbara Sparrow

Chad Centola

From: Mitch and michelle Steinberg <theuglychip@yahoo.com>
Sent: Sunday, January 15, 2023 3:53 PM
To: managethefuture
Subject: New Landfill

Some people who received this message don't often get email from theuglychip@yahoo.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

No new landfills should be sited next to existing neighborhoods. The site at 181315 Rickard Road is unsuitable as a future landfill. It should be removed from consideration. There are many other options!

**Thanks,
Mitch & Michelle**

Tim Brownell

From: Dawn Stuart <dawngstuart@gmail.com>
Sent: Sunday, January 15, 2023 11:07 AM
To: managethefuture
Subject: Manage the Future of Solid Waste

Some people who received this message don't often get email from dawngstuart@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I strongly oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons, bald eagles, osprey and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Thank you,

Dawn Stuart
Bear Creek Farm
Bend Oregon

Tim Brownell

From: Heidi Tebbs <heidiatebbs@gmail.com>
Sent: Sunday, January 15, 2023 11:54 AM
To: managethefuture
Subject: Oppose Landfill Site 181300

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[EXTERNAL EMAIL]

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents

Thank you for your consideration of this matter.



Heidi Tebbs, Broker

Licensed In the State of Oregon

Mobile: 541.948.0075

Office: 541.383.7600 ext. 209

Email: heidi.tebbs@cascadesir.com

Website: BuyCascadeHomes.com



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Chad Centola

From: AOL2 <Chattahoochiej@aol.com>
Sent: Sunday, January 15, 2023 1:37 PM
To: managethefuture
Cc: Chad Centola
Subject: Opposition of landfill site 181300

You don't often get email from chattahoochiej@aol.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

To whom it may concern,

I oppose a landfill on Site 181300.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

This Site is within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consists of old growth juniper containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary. **This parcel is rated by the SWAC as among the least 'environmental quality' in the county.**

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money for several years to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircraft and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

Connie Thomas

Chad Centola

From: Thomas Wisdom <tcwisdom@gmail.com>
Sent: Sunday, January 15, 2023 8:01 PM
To: managethefuture; chad.centola@deshutes.org; solidwaste
Subject: Landfill Opposition

Some people who received this message don't often get email from tcwisdom@gmail.com. [Learn why this is important](#)

[EXTERNAL EMAIL]

I am a resident who lives at 23360 Bear Creek Rd and I oppose a landfill at Sites 181300 and 181315.

This area is a vibrant, well-established neighborhood of families, farms, ranches, and equestrian facilities. Noise, debris, odor, excavating/blasting and landfill truck traffic will destroy this tranquil, rural lifestyle and our property values will be destroyed. We chose our property because of the atmosphere and nature of the surroundings.

There are domestic wells and agricultural canals adjacent to the sites that risk contamination.

The Sites are within the Badlands Wilderness ecoregion, designated by the US Congress in 2009, and consist of old growth juniper woodlands, containing trees that are some of the oldest in the state. Wildlife species that inhabit the area include yellow-bellied marmots, bobcat, mule deer, elk, and antelope and is a crucial winter range for mule deer. Avian species include prairie falcons and golden eagles. Site 181300 is 0.7mi from the Badlands Wilderness boundary Site 181315 is 0.5mi. These parcels are rated by the SWAC as among the least 'environmental quality' in the county.

Site 181300 is 4.14 miles away from the Bend Municipal Airport Runway. The FAA requires construction of any new landfill to be at least 6 miles from smaller public airports, if they use or receive federal funds. The Bend Municipal Airport accepts and uses federal money to fund its improvements such as runway extension, tower, and master plan. The airspace is a training area for fixed wing and rotor aircraft with Life Flight based there. Safety of the persons operating those aircrafts and the people on the ground should be a number one priority. Landfills draw birds and bird strikes cause aviation accidents.

I urge you to consider all of these factors when you look at these sites.