

**BOULDER CITY CONSERVATION EASEMENT
MANAGEMENT ACTIONS TRACKING TABLE
1ST QUARTER, 2022**

MANAGEMENT ACTION DESCRIPTION		PRIORITY	COST	EFFECTIVENESS MEASURES	TIMEFRAME	FREQUENCY	STATUS	QUARTERLY ACCOMPLISHMENTS JANUARY 1, 2022 - MARCH 31, 2022
1.0	Restore and enhance habitat for desert tortoise							
1.1	Monitor for changes in desert tortoise occupancy							
	Monitor occupancy for changes over time. This can be used as effectiveness monitoring for other projects as well as a way to evaluate changes to the tortoise population.	H	VH	This is an effectiveness measure for other projects	ongoing	Every year	To begin spring 2020	Occupancy monitoring begins in April each year and concludes in May. Analysis of data will be completed every 2-4 years.
1.2	Identify and prioritize locations for habitat restoration and enhancement							
	Prioritize locations for restoration and enhancement using the work completed through the occupancy sampling pilot project, the covariate work, and actions 4.1 and 5.2 of this table. Reevaluate and/or reanalyze after the work has been completed	H	L-M	Map of priority areas for habitat restoration and enhancement	To be completed again after steps 1.3 - 1.6 have been completed	Recurring	Planning and preliminary analysis have been completed. Full analysis is ongoing.	Several priority restoration locations have been identified in previous quarters. No additional priority locations have been identified this quarter.
1.3	Develop restoration/enhancement plans for priority locations							
	Use results from 1.2 to plan location, type, and extent of restoration/enhancement	M	M	Plans meet restoration goals and objectives, contract requirements, and are ready for implementation	After 1.2 is completed	Upon completion of each plan	In progress	New restoration activities for 2022 are in planning development based on priority locations and restoration objectives established in previous quarters.
1.4	Implement restoration/enhancement plans							
	Prepare contract(s), schedule and implement plans	M	H	Implementation meets restoration goals and objectives, contract requirements	After 1.3 is completed	Upon completion of each restoration project	In progress	Maintenance watering for the shrubs that were planted at the end of 2021 has continued and will continue until at least mid-summer 2022 to encourage proper establishment.
1.5	Monitor and adaptively manage restoration/enhancement							
	Establish success criteria and monitoring schedule; assess success of restoration/enhancement against criteria; continue/augment restoration actions to maintain investment	VH	L	Restoration/enhancement plantings and topographic modifications meet success criteria	After each restoration/enhancement project is completed	2-3 weeks after initial planting; according to monitoring schedule	In progress	Monitoring for site K-2 is ongoing for the duration of the seeding experiment, and pre- and post-restoration monitoring plans are in place for each new restoration site. Qualitative monitoring occurs quarterly at each new site to ensure that sites are meeting success criteria.
1.6	Analyze relevant landscape matrix elements and composition							
	Analyzing the matrix of landscape elements, including developed areas, roads, dominant vegetation cover types, etc., both within the BCCE and the surrounding landscape will serve to achieve biological objectives D 4.1 and D 4.2. D 4.1 involves identifying critical ecological and management uncertainties and D 4.2 involves identifying critical connectivity corridors.	H	L	Maps of areas with ecological or management uncertainty; maps of landscape matrix to identify habitat and desert tortoise connectivity	Recurring	Every 4 years	Not started	There were no activities this quarter.

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2.0	Install and maintain infrastructure that controls tortoise movement							
2.1	Inspect tortoise fences, road crossing guards, gates, and culverts for maintenance needs							
	Schedule and conduct periodic inspections of infrastructure; conduct inspections when opportunities arise or in conjunction with other activities	VH	L	Location, length, and percent of tortoise fencing, road crossing guards, gates, and culverts inspected. Number, length, and percent of fencing, protective gates, and culverts needing repair	Prior to spring (March) and fall (September) tortoise seasons, after storm events	Yearly	Ongoing	This quarter all cattle guards, desert tortoise guards, and culverts were checked monthly at a minimum. The solar energy zone fence will be inspected next quarter.
2.2	Conduct emergency repairs and/or schedule maintenance repairs							
	DCP staff can repair minor fence damage; contact NDF to schedule maintenance/repairs	VH	L	Completion of repairs, time period between notification and repair	As needed	After inspections, when needed	Ongoing	No repairs were needed this quarter.
2.3	Notify NDOT for highway fence repairs and culvert cleaning/maintenance							
	Call NDOT point of contact to request maintenance crew; provide location and type of repair/maintenance needed	VH	L	Completion of repairs, time period between notification and repair	Notify within 24 hours of observed damage	After inspections, when needed	Ongoing	No repairs were needed this quarter.
2.4	Identify locations for new or replacement tortoise fences, gates, and road crossing guards							
	Use results from 2.1, 4.2, and 5.3 and from general observations of user activities and adjacent development to determine need to install new or replace infrastructure	M	M	Locations identified	Ongoing	Ongoing	Ongoing	Unauthorized activities continue to occur within the north unit of the BCCE in the vicinity of the northern border. A post-and-cable fence along portions of the northern border may help to deter these unauthorized uses. Funding to construct a north border fence was approved by the Board of County Commissioners in the 2021-2023 Implementation Plan and Budget. Changing the configuration of the fence at the end of Route H may also help to deter off-road travel circumventing the current turn-around area. Police have been in contact with a company that may have been operating illegally to provide off-road tours on the easement.
2.5	Install new or replace tortoise fences, road crossing guards, and gates							
	Use results from 2.4; prepare scope of work and contract, complete installation	M	M-H	Completion of installation, time period between notification and installation	Within 1 year after 2.4 or identified need	Whenever installations are done	Ongoing	Scope of work preparations started this quarter.
3.0	Manage direct stressors to desert tortoise							
3.1	Consider use of effective predator control techniques, as appropriate							
	Review outcomes of predator assessment report in 2013-Boarman-1421B; evaluate recommendations, determine short- and long-term costs/benefits (effectiveness)	H	M-H	Techniques are practicable and feasible with measurable benefits	Within 1 year following completion of predator assessment report	Within 1 year following completion of predator assessment report	Not started	There were no activities this quarter.

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3.2	Develop plan to implement and monitor predator control techniques							
	Based on results of 3.1, develop goals and objectives for predator reduction/control, prepare and implement plan; monitor status of meeting goals and objectives.	H	M-VH	Predator reduction/control techniques meet goals and objectives and contract requirements are met	Within 1 year after 3.2, as needed	Incremental based on implementation schedule	Not started	There were no activities this quarter.
4.0	Manage road network to support conservation and provide appropriate access for management and public use							
4.1	Determine travel patterns and usage							
	Install traffic counters at different locations and at different times to evaluate travel patterns and frequency of use; use data for 5.2 law enforcement patrols	H	M	Completed assessment of travel patterns and usage	Annually, seasonally, or as needed	After data is compiled from counters	Ongoing	There were no activities this quarter. Patrols are currently covering all open roads at least one time per week.
4.2	Identify and prioritize illegal route closures							
	Use results from 4.1, 5.3, and other criteria to identify roads for closure	H	L	Prioritized road closures	Ongoing	Yearly or when new illegal routes are located	Ongoing	There are several new closed loop tracks in the north unit that are already closed and further measures are planned in the 2021-2023 biennium.
4.3	Post and maintain open road signs							
	Review open road network, post open road markers, replace damaged or faded markers	VH	M	Monitor to ensure all open roads are posted and in good condition	Quarterly	Quarterly or as needed	Ongoing	Most damage was due to weathering, a total of 8 route stickers were replaced. No carsonite sign posts were replaced. No metal signs were replaced.
4.4	Maintain road closures							
	Notify law enforcement, update maps/public information showing closed roads; install barriers (post and cable, boulders)	H	L	Roads are designated as closed, closed roads are no longer used	Ongoing	Continually	Ongoing	Signs are posted on closed roads at BCCE entry points. Most of the closed roads emanate from Boulder City and enter the BCCE along the northern border of the easement. When traffic is detected on these roads, law enforcement is asked to patrol the areas more frequently.
4.5	Develop restoration plans for permanently closed roads							
	Based on results of 4.4, prepare plan(s) to restore road to native habitat or hide/mask road presence; determine length of road to restore using data from 4.1 and 5.3; establish success criteria	H	M	Plans are completed with goals and objectives for restoration and with all components needed for implementation	Within 1 year after road is closed	When restoration plans are completed	In Progress	The K-2 restoration project plan was implemented this quarter, and a monitoring plan is in place. Post-restoration photo monitoring is ongoing.
5.0	Provide law enforcement							
5.1	Maintain patrols by Boulder City peace officers							
	Maintain and renew contract in accordance with Section 5(c) of 2010 grant amendment	VH	VH	Funding for law enforcement included in biennial budgets	2017-2019 IPB	Biennially	Ongoing; 2019-2021 IPB pending	The Boulder City Police have been conducting patrols on the BCCE in accordance with their current contract.
5.2	Monitor and adjust patrol schedule and locations							
	Review patrol reports from peace officers; adjust patrols based on season, public contacts, infractions, and discussions with officers	H	L	Assess hours, locations, and contacts; compare to public usage	Monthly, as needed	As needed	Ongoing	The patrol officer meets once per month with the BCCE Project Manager. A majority of people are being respectful of the officer and the open roads.

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5.3	Monitor and enforce prohibited uses							
	Review patrol reports from peace officers for number, frequency, and type of prohibited use	H	L	Number and trend of prohibited uses addressed by law enforcement	Ongoing	Monthly	Ongoing	There is an ongoing investigation into illegal off-road uses in the northern unit. Closed loop course use and expansion between Routes E and I around Quail Wash continues to be an issue.
5.4	Evaluate officer/public contacts for opportunities to improve patrols							
	Review patrol reports and discuss the type, frequency, and location of public contacts with officers; update officers on DCP ongoing activities and public outreach/education initiatives	H	L	Measures of more effective patrols: contacts, elimination or reduction of problems/issues	Monthly	As needed	Ongoing	Patrol reports continue to be reviewed regularly. Several public outreach initiatives are being investigated to help curb illegal OHV activity.
6.0	Manage property to control invasive plant species and noxious weeds to reduce fire stress on the ecosystem							
6.1	Identify locations infested or susceptible to invasive plant species and noxious weeds							
	Complete weeds assessment; record locations, identify species of concern	H	L-M	Assess areas surveyed and areas where invasive plant species and noxious weeds were found	Ongoing	As needed	Ongoing	The National Park Service (NPS) continued to survey for, map, and control weeds at the BCCE through our interlocal agreement.
6.2	Develop plan to eradicate or reduce invasive plant species and noxious weeds							
	Use results from 6.1 to prepare treatment plan(s); prioritize treatment locations; establish success criteria	H	L	Plan(s) is completed with goals and objectives for treatment and with all components needed for implementation	Within 1 year of 6.1	When plan(s) is completed	In progress	If new weed infestations are located a specific plan will be developed and implemented based on the size and extent of the infestation. This will be discussed with DCP staff and NPS crews.
6.3	Implement the plan to eradicate or reduce invasive plant species and noxious weeds							
	Implement plan(s) prepared in 6.2; prepare scope of work/contract	H	L-M	Treatment/eradication is completed and meets goals and objectives or plan and contract requirements	Within in 1 year of 6.2	After treatment is completed	In progress	The regular treatment of invasive plants by NPS has controlled any major weed problems on the BCCE.
6.4	Monitor locations for recurrence of invasive plant species and noxious weeds							
	Establish monitoring schedule; assess success of treatment/eradication against criteria; schedule additional treatments as needed	H	L-M	Monitor to area and/or numbers to assess eradication or reduction; eradication success is no or minimal recurrence of species	After each location is treated; seasonally	Seasonally	In progress	NPS conducts a biannual survey that includes monitoring locations for recurrence of invasive and noxious weeds. Along roads and washes are the main locations of weed infestation due to the presence of vehicles that can carry/transport invasive plant species. All locations are monitored regularly and no major problems have been found.
7.0	Educate the public on allowable uses and current activities							
7.1	Identify locations and maintain database for signs and kiosks							
	Create/update inventory/database of locations of existing signs and markers; review recommendations of branding/interpretive planning master plan report (2011-LGA-910C); select preferred locations for interpretive signs/kiosks	H	L	Locations for signage identified and approved; inventory/database updated	2014	Within 1 year of project completion	Ongoing	There are over 180 signs on the BCCE. All entry points into the BCCE have signage indicating permitted activities and open roads within the easement have route designations with the speed limit indicated. Four interpretive kiosks have been installed at high-traffic entry points.

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7.2	Develop content, purchase, and install interpretive signs and kiosks							
	Prepare scope of work and contract; based on results of 7.1, request right-of-way if selected location(s) is on BLM land	H	H-VH	Number and location, content, and installation of interpretative signs/kiosks selected. Interpretative signs/kiosks installed meeting contract requirements	2015-2017 IPB	At end of project	Completed	Signage on the kiosk have been installed.
7.3	Monitor and maintain condition of all posted signs and kiosks							
	Establish monitoring schedule, document condition of signs and kiosks, schedule maintenance/replacements as necessary. Install new signs at locations identified under 7.1.	H	L-M	Signs and kiosks monitored on a selected schedule, damaged signs repaired or replaced within two weeks of discovery; damaged kiosks repaired within 3 months of discovery	Within 6 months of 7.3, 7.4, 7.5; quarterly thereafter	Ongoing	Ongoing	Signage is monitored during each site visit, at least weekly. Any needs are documented and handled during a future site visit. Signage replacement and/or fixes are usually completed within one week. Most signage issues are related to weather and not vandalism currently.
7.4	Develop content, print, and distribute interpretive brochure(s)							
	Prepare scope of work and contract; identify locations to distribute brochures; provide brochures to Boulder City peace officers	M	M-H	Brochures printed and meet the contract requirements, maintain distribution to users, assess where and who uses brochures	2015-2017 IPB	After brochures printed and distributed	Brochures completed; distribution ongoing	Brochures are distributed by law enforcement to each individual they encounter on the BCCE. 32 brochures were distributed brochures this quarter. Brochures at the kiosks are checked on a weekly basis and refilled as needed.
7.5	Update information on BCCE webpage							
	Use results from 9.0 to review, confirm accuracy, and update information on Boulder City code/ordinances, use results from 4.4 to update road information and map	H	L	Information is accurate and updated	2014-2015; as needed thereafter	Upon completion of action	Ongoing as needed	Brochures and the webpage are updated at the same time to make sure the information is consistent and accurate. Both information sources are reviewed quarterly to assure the information is up-to-date. The webpage and map were updated to reflect the boundary adjustment that was recently approved.
8.0	Manage allowable uses							
8.1	Monitor condition of three historic sites located on the BCCE							
	Photo document condition of sites; establish schedule to monitor condition; develop plan of action if sites degrade or are vandalized	M	L	Develop metrics to measure condition of historic sites	2014-2015; ongoing thereafter	Based on monitoring schedule	Not started	The three historic sites are visited a minimum of once per quarter. Photos are taken and stored by date. No vandalism has been detected. The DCP does not publish the locations of the sites. Additional burials have been located along Route E south of the Pet Cemetery. The age is unknown, possibly historic, this will be evaluated at a future date to determine if these should be treated as an additional historic site.
8.2	Maintain relationships and coordinate with adjacent landowners to protect conservation values of the BCCE							
	Establish schedule to communicate (formal and/or informal, as appropriate) with landowners on BCCE management actions, issues, and ongoing and pending projects	H	L	Relationships with adjacent landowners is reviewed annually	As scheduled, as needed	Annually, at year end	Pending	Informal communication with adjacent landowner contacts is continuing. Additional communication may be required with the Solar Energy Zone Expansion project.

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8.3	Monitor and coordinate with utility companies to minimize impacts from existing and proposed transmission corridors and facilities							
	Identify representatives for utility companies on, adjacent, or crossing BCCE (request assistance from Boulder City and/or BLM, if necessary); establish schedule to communicate (formal and/or informal, as appropriate) with representatives to exchange information	H	L	Coordination and success of minimizing impacts is reviewed annually	As scheduled, as needed	Annually, at year end	Pending	<p>Currently we communicate as needed with the utility companies. We also monitor the LR2000 reports to see if any new work is scheduled to occur in the BCCE. The Air Quality Dust Permit web application is also used to detect new construction around the BCCE.</p> <p>The request from SW Gas received last year to change out a gas line that runs north to south in their right-of-way through the BCCE is still in progress. SW Gas has been sent our terms to proceed and we are awaiting their signature.</p> <p>A rebuild of an existing powerline within the utility corridors began and a second new transmission project was completed. All travel and disturbance for the newly constructed line was contained within the existing BLM right-of-way.</p> <p>Documented one incident of non-compliance with a Reserve Use Request that was issued for construction of a new transmission line; met with the energy company to discuss remediation that will be required to bring the project into compliance and we continue to coordinate with them on the execution of a restoration plan.</p>
8.4	Review exceptions to prohibited uses (discharge of firearms) for conflicts with Boulder City Code and Ordinances and Nevada hunting regulations							
	Review seasonal exception for discharge of firearms for hunting/trapping against seasonal NV hunting regulations for possible conflicts, and against Boulder City Code 7-1-3 for restricted distances; determine corrective action if conflicts exist	M	L	Possible conflict confirmed and resolved	2014-2015	After action is completed	Completed	There were three target areas cleaned up this quarter and 1 warning of discharging a firearm within 100 yards from any street, building, sidewalk, or highway. Hunting activities and target shooting has continued to stay steady on the BCCE.
8.5	Monitor location and effects of treated effluent discharge							
	Establish schedule to monitor condition and location of discharge; photo document condition of discharge channel; develop plan of action if discharge channel creates nuisance and/or undesirable habitat	H	L	Develop metrics to measure change in topography and vegetation	Quarterly, after storm event	Quarterly	Not started	No issues that need to be addressed.
9.0	Manage prohibited uses							
9.1	Maintain fence and gate installed around pet cemetery							
	Schedule inspections to monitor and maintain condition of fence and gate; repair and/or schedule repairs when damage is observed	H	L	Fence and gate maintained and repaired within a week of discovered damage	Quarterly	Quarterly	Ongoing	The pet cemetery fence is checked approximately monthly, and repairs are scheduled for the following week when repairs are required.
9.2	Maintain fence and gate installed around pet cemetery							
	Schedule inspections to monitor and maintain condition of fence and gate; repair and/or schedule repairs when damage is observed	H	L	Fence and gate maintained and repaired within a week of discovered damage	Quarterly	Quarterly	Ongoing	1 gate was repaired this quarter.
9.3	Monitor for burials of animal remains outside the fenced pet cemetery area							
	In conjunction with 9.1, monitor for burial activity outside fenced area; identify options to safely remove and location(s) for disposal of buried remains	H	L	Record all burials outside of fenced pet cemetery within a week of discovery	Quarterly	Quarterly	Not started	While checking the fencing around the pet cemetery, we also check the surrounding area for pet burials outside the fenced area. No new burials were detected this quarter. Older burials were located south of the Pet Cemetery, possibly historic.

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9.4	Monitor known and potential locations of illegal dumping activity							
	Establish schedule to regularly monitor locations of past dumping activities	M	L	Location of trash and debris is known, leading to 9.5	Quarterly	Quarterly, as observed	Ongoing	The DCP staff monitors known dumping sites for new illegal dumping. DCP staff and law enforcement clean up small trash during site visits and regular patrols. Three new dumping locations were found this quarter.
9.5	Remove trash and debris from illegal dump sites							
	Establish procedure and/or contract to safely remove materials from dump sites for disposal at appropriate landfill (construction debris, household trash, hazardous waste)	M	L-M	Trend toward less trash and debris in the BCCE	Within 1-3 months of observation	Quarterly, after inspections	Ongoing/pending	Our maintenance contractor cleans up large dump sites when they are found. Three dump sites were cleaned up this quarter on Route T, Route C and E.
9.6	Monitor for other prohibited uses							
	In conjunction with inspections/monitoring of other actions, monitor site conditions and user activities for prohibited conduct; coordinate with Boulder City peace officers on observations and findings	M	L	Trend toward less prohibited actions in the BCCE	Ongoing	Annually, at year end	Ongoing	Camping, target shooting, and off road travel are the most common prohibited uses of the BCCE. Law enforcement gave out 0 citation and gave out 5 warnings this quarter.