Environmental Stewardship Plan for the Yellow Creek Shooting Range Exemption SRMA (Special Recreation Management Area) Lawrence County, South Dakota



U.S. Department of the Interior Bureau of Land Management South Dakota Field Office 309 Bonanza Street Belle Fourche, South Dakota 57717

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ENVIRONMENTAL STEWARDSHIP PLAN - YELLOW CREEK SHOOTING RANGE

In an ongoing effort to properly manage the environmental resources at the Yellow Creek Shooting Range, the Bureau of Land Management (BLM), South Dakota Field Office has developed this Environmental Stewardship Plan (ESP). The goals of the ESP, along with the actions necessary to meet the goals, are detailed in this document. A copy of this ESP shall be kept on file at the BLM, South Dakota Field Office and will be incorporated into the Recreation and Public Purpose Lease with the City of Deadwood, SD.

The ESP is a dynamic plan intended to be supplemented throughout the life of the Yellow Creek Shooting Range, as required by annual monitoring described in the Operation Plan to be completed at the time of site operation.

The purpose of this document is to:

- Identify issues of potential environmental concern that may exist or develop at the Yellow Creek Shooting Range.
- Identify, evaluate, and prioritize appropriate actions to manage these issues.
- Generate a list of short- and long-term action items and the steps necessary to implement each item.
- Develop a schedule for implementation of these actions.
- Identify ways the success of any site modifications or changes in site management techniques will be measured; and
- Annually evaluate the progress towards environmental stewardship goals, and identify goals, actions, and any appropriate revision to the ESP for subsequent years.

Environmental Goals

- Maintain metals levels in soils below BLM's 2021 Risk-Based Screening Levels for Recreational Shooting Sites on Bureau of Land Management Properties (BLM 2021) as shown in Table 1.
- Prevent migration of lead and other metals off-site through ground water and surface water runoff.
- Maintain and improve existing vegetation in undeveloped areas.
- Contain and remove trash and debris; and
- To prevent rainwater and snowmelt from dissolving and transporting lead and other metals from firearms use, maintain soil pH of 6.5 to 8.5 within the firing line and impact areas. Minimize erosion of earthen backstop berms.
- Reduce noise levels with shooting range design and materials.

Constituent to analyze	BLM Law Enforcement and Oversight Staff (250 days/year)	BLM Staff and Volunteers Performing Trash and Debris Removal (2 days/year)	BLM Recreational Shooter (25 days/year)	BLM Shooter Visitor (Child 0–7 Years Old) (25 days/year)
	Proposed Conditional RBSL mg/kg			
Antimony	2,820	176,250	56,400	12,936
Arsenic	600	37,500	12,000	2,752
Copper	282,000	>1,000,000	>1,000,000	>1,000,000
Lead	882	4,727	2,521	1,606
Zinc	>1,000,000	>1,000,000	>1,000,000	>1,000,000

Table 1. BLM Proposed Conditional RBSLs (BLM 2021).

SITE ASSESSMENT

Description of the Range and Support Facilities

The ESP includes the evaluation of existing site conditions and identification of potential environmental issues that may conflict with the use of the property as a shooting range.

The Yellow Creek Shooting Range would be a developed site located approximately 5 miles south of Deadwood, SD on 14 acres of land managed by the U.S. Department of the Interior, Bureau of Land Management, South Dakota Field Office. The range is leased under the Recreation and Public Purposes Act by the City of Deadwood to be managed as a public shooting range. It includes approximately 7 acres of range surrounded by another 7 acres of Hazardous Exclusion Area identified by a perimeter fence for public safety and livestock exclusion.

The site would consist of a parking area, public information kiosk, vault toilet, concrete shooting benches, replaceable target stands, (2) 50-yard pistol ranges, 100-yard and 200-yard rifle ranges, and firing line structures to help with noise reduction. The primary backstops are earthen berms lined with fine material for efficient metals removal.

Additional site assessment details are discussed in the National Environmental Policy Act (NEPA) environmental assessment and Yellow Creek shooting area review and update of Initial Investigation Report Real Property Disposal (Phase 1 ESA) for the Yellow Creek Shooting Range.

Existing or Potential Environmental Conditions

Existing or potential environmental issues or areas of concern have been identified for this site and are discussed below. Implementation of possible management alternatives to these issues is discussed later in this ESP.

- The current backstops and backstop materials do not meet NRA or EPA BMP guidance (NRA 2012, EPA 2005).
- The earthen backstop berms are unvegetated, susceptible to increased erosion, and may periodically need repair.
- Lead and other metals may currently exist or accumulate at levels exceeding 2021 BLM RBSL's (BLM 2022).
- Trash and debris may impact public safety and health.
- Shooting at non-designated targets or outside designated shooting areas may result in vegetation destruction, public safety hazards and non-containment of lead.
- Vandalism or destruction of facilities.

PLAN OF ACTION

Potential Management Alternatives

- Alternative 1 Work on all environmental action items simultaneously.
- Alternative 2 Work on one action item this year and address all others later.
- Alternative 3 Choose a few goals that can be implemented immediately and begin planning the longer-term alternatives.

ACTION ITEMS

- 1. Reconstruct shooting backstops to NRA standards according to site plan (Attached). Onsite materials that were processed during lead removal will be utilized on the berm faces.
- 2. Vegetate the earthen backstop berms to minimize erosion.

- 3. Install surface runoff and erosion control features, such as gravelling the parking area and vehicle routes, revegetation, etc.
- 4. Apply lime and/or phosphate to impact areas if soil test analysis determines it is necessary. Apply clay layer or gravel to base of earthen berms to minimize or prevent lead and moisture mixing.
- 5. Begin planning to monitor lead and other metals accumulation at the range. Recover and recycle lead and other metals from range on a regular basis when monitoring indicates RBSL's are exceeded.
- 6. Construct perimeter fencing identified in the Environmental Assessment. A three-panel wooden fence along the road, a 4-wire wildlife friendly barbed wire fence (bottom wire smooth) along the southern perimeter, and a buck-and-rail fence around the perimeter.
- 7. Install trash cans to minimize trash and debris across the landscape. Install education and awareness signs to pick up all trash.
- 8. Establish designated targets, shooting direction, and educational displays or kiosks. Ensure onsite signs include messaging regarding potential for elevated lead levels, including recommendations for hygiene (i.e., Hand washing) and not eating or smoking on site.
- 9. Construct shooting range fire line structure to reduce noise levels.

Selection of Management Alternative to be Implemented and Action Items

Alternative Selected

Based on the environmental stewardship goals of this ESP, the environmental benefits provided and the current availability of funds, the following priorities were chosen for the first calendar year once the R&PP lease is in place. The choices were made to first address the most pressing environmental concerns and those most easily resolved, and then initiate management practices that would create longer-term environmental benefits.

- Alternative 3 Choose a few goals (Action Items) that can be implemented immediately and begin planning the longerterm alternatives.
 - 1. Reconstruct shooting backstops to NRA standards according to the attached site plan.
 - 2. Vegetate the earthen backstop berms to minimize erosion.
 - 3. Install surface runoff and erosion control features, such as gravelling the parking area and vehicle routes, revegetation, etc.
 - 6. Construct perimeter fencing identified in the Environmental Assessment.
 - 7. Install trash cans to minimize trash and debris across the landscape. Install education and awareness signs to pick up all trash.

8. Establish designated targets, shooting direction, and educational displays or kiosks. Ensure onsite signs include messaging regarding potential for elevated lead levels, including recommendations for hygiene (i.e., hand washing) and not eating or smoking on site.

9. Construct shooting range fire line structure to reduce noise levels.

Additional Action Items can be developed through coordination with the BLM.

Management Actions

Best management practices outlined in the Environmental Protection Agency document "Best Management Practices for Lead at Outdoor Shooting Ranges" will be incorporated (EPA 2005).

Continue to restrict the Yellow Creek shooting area as a day-use only site. Prohibiting camping and overnight use reduces potential exposure duration to contaminants of concern associated with shooting sites.

Construction Actions

The Yellow Creek Shooting Range site was primitively developed in 1977 but the range does not meet current NRA design standards. Listed below will be the priority construction actions needed to make the range safe.

- Relocate the berms for the 100yd and 20yd rifle ranges and build new berms around the two 50yd pistol ranges. All berms will be covered with fine material located on site to improve bullet retention and recovery. Use of previous berm material should be used to be installed on the new berms.
- Relocate the entrance road to a safer location along Yellow Creek Road.
- Install cattle guard at entrance to the shooting range.
- Construct boundary fence according to the completed environmental assessment. Fence will include warning signs to notify public of the shooting range location.
- Collect soil samples from impact areas, e.g., earthen berms, target areas, shooting platform, etc., to test for available phosphorous, pH, clay and organic content, and other nutrients once the new berms have been constructed.
- Contact Natural Resource Conservation Service (NRCS), Local Soil Conservation District, Local Cooperative Extension Agent, and/or qualified party and request recommendations for plant species best suited for erosion control on the berms.
- If needed, add lime, phosphate, other plant fertilizer and grass seed, at application rates recommended by NRCS, Extension Agent or other based on soil test results, to maintain optimum pH and other soil conditions to minimize metals mobility and maximize plant growth for erosion control.
- Construct shooting range firing line structure to reduce noise levels and improve safety of the range by providing safe platforms and locations to shoot from.

PLAN IMPLEMENTATION

Schedule for Implementation

Upon completion of construction activities:

- Identify responsible party to collect samples and make and carry out recommendations, if necessary. Once the R&PP lease is in place, the City of Deadwood will be responsible for collecting samples.
 - Have soil samples collected from impact areas and analyzed for pH, clay, organic material, available phosphorus, and other nutrient levels.
 - If indicated by soil test analysis, apply nutrients, lime, and seed per recommendations to increase plant density and prevent or minimize erosion and lead particle runoff.

Responsibilities

The City of Deadwood would sign an R&PP lease with the BLM which will be the guiding document for managing the shooting range. This ESP will be reviewed annually to ensure BMPs are being followed or if any adjustments to shooting range management need to be made.

It will be the responsibility of the City of Deadwood or current lease holder to periodically have the lead bullet fragments removed from the berms. Frequency will be determined by annual monitoring, visual inspection, and following the most current BMP's.

MONITORING AND MEASURING SUCCESS

The following parameters will be monitored as described:

- Vegetation density (annual) and type- Measured during growing season (early spring) as visual estimate of percentage of ground surface covered by vegetation. Document type (if any) of noxious weeds on site.
- Test soil (annual) Sampled near shooting platform(s), earthen backstop berms/target areas, and other areas as determined by the BLM. For efficiency, recommend sampling at same time as other parameters, i.e., growing season or early spring. Soil testing may include, but is not limited to the following: lead, pH, arsenic, phosphorous, etc.
- Erosion and soil loss (biannual) Document existing conditions and note any significant change in the size and/or depth of ruts or ditches. Erosion control measures may also be informally monitored by BLM staff during normal operating activities and brought to the attention of the lessee. Recommended monitoring in the spring and fall.
- Earthen berm integrity and erosion (annual) Document existing conditions and note any significant change in the size or integrity of the earthen berms. Note any sediment deposition below the earthen berms. Runoff and ponding are effectively diverted away from impact areas (i.e., berms and target areas). Recommend sampling at same time as other parameters, i.e., growing season or early spring.
- Trash and debris (as needed) Note the amount of trash and debris removed from trash receptacles. Visually note the amount of trash or debris on the landscape. Permanent photo points will be established and monitored on an annual basis to document changes over time, e.g., erosion, vegetation, trash and debris, usage levels, etc. Soil testing will be necessary to determine trends in soil pH, lead, and available phosphorus levels. An annual report documenting results of soil sampling and analysis, and current condition of other measures such as vegetation growth and erosion control will be prepared and kept on file with the ESP at the BLM, South Dakota Field Office.
- Annual documentation will be provided to the BLM by the City of Deadwood during the annual meeting to identify work previously completed, monitoring results, and prioritize goals for the upcoming season.

PERIODIC ASSESSMENTS AND ADJUSTMENTS TO THE PLAN

This ESP will be reviewed annually to assess the achievement of the prioritized goals listed in this ESP and to set goals for next year(s).

The annual inspections may necessitate a revision to the ESP in order to continue to meet or exceed the objectives outlined in this ESP. Recommendations from the public and BLM staff will all be considered during any revisions to the ESP. The annual inspections may determine metals recovery and removal if the metal in the soil is above the selected RBSL.

Questions to be answered include:

- Were the Environmental Stewardship Goals achieved that were identified for this ESP?
- In what areas (if any) did the ESP fall short?
- What is necessary to fully implement the ESP in these areas?

Next Steps

- Continue to monitor the environment and review the ESP on an annual basis.
- Update the ESP and set goals for subsequent years.

Also determine:

- Which potential management alternatives and actions listed in this ESP did not address this year should be considered for implementation.
- If it is still feasible to attempt to complete them.
- Identify additional goals previously put on hold. Estimate when these goals will be addressed.

Recommended future actions based upon original goals:

• Recover lead and other metals on a periodic basis to remain in compliance with regulatory guidelines, BLM RBSL's and BLM policy.

REFERENCES

BLM 2021. Risk-Based Screening Levels for Recreational Shooting Sites on Bureau of Land Management Properties. FINAL GUIDANCE. Submitted by: HSG, LLC, dba Herndon Solutions Group.

BLM 2022. Yellow Creek shooting area review and update of Initial Investigation Report Real Property Disposal (Phase 1 ESA). December 19, 2022 memo with attachments.

National Rifle Association. 2012. The NRA Range Source Book: A Guide to Planning and Construction, March 2012

National Shooting Sports Foundation, Facility Development Division. 1997. Environmental aspects of construction and management of outdoor shooting ranges. Facility Development Series Number 2. 125p.

United States Environmental Protection Agency. 2005. Best management practices for lead at outdoor shooting ranges. EPA-902-B-01-001. 103 p. https://www.epa.gov/lead/best-management-practices-lead-outdoor-shooting-ranges-0

APPENDIX A: RANGE INSPECTION FORMS

Form A-1: Rifle Range Monitoring Form



Form A-2: Soil pH Monitoring Form

Date		Soi	l pH		Comments	Initials
	50yd	50yd	100yd	200yd		
	Pistol	Piston	Rifle	Rifle		
	Range	Range	Range	Range		
7/1/24	7.2	7.1	6.9	7.3	**Example Only** - Range samples collected	RL
					from impact berm.	

NOTES: Soil pH monitoring should be conducted annually

Procedure for measuring pH in soil:

- 1. In a clean container, mix 1 part soil with 1 part tap water or distilled water.
- 2. Mix thoroughly.
- 3. Allow mixture to settle for 10 minutes.
- 4. Calibrate pH meter following manufacturer's instructions.
- 5. Measure pH with pH meter, allowing reading to stabilize. Record reading.
- 6. Clean pH meter and contain with tap water or distilled water.

Form A-3: Photo Point Monitoring Form

Camera Location and Photo Points	
Date:	Area: Yellowcreek Shooting Range
Observer:	
Comments:	

Photo Point Location 1:

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	,
	Insert Photo Here
	·

Photo Point Location 2:

Photo Point Observation Notes:	
	Insert Photo Here

Photo Point Location 3: _____

Photo Point Observation Notes:	
	Insert Photo Here

Photo Point Location 4: _____

Photo Point Observation Notes:	
	Insert Photo Here

Photo Point Location 5:

Photo Point Observation Notes:	
	Insert Photo Here

APPENDIX B: YELLOW CREEK SHOOTING RANGE SITE PLAN



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TOPSOIL - SALVAGE AND REPLACE THE CONTRACTOR SHALL SALVAGE, STOOGPLE, AND REPLACE ALL TOPSOIL THE STAUGUE ARE, DORSON AREA AND OTHER LOCATIONS AS SHOWN ON THE STAUGUE AREA, DORSON AREA AND OTHER LOCATIONS AS SHOWN ON RECEIVE SEED, TO MINIMUM DEPTH OF SX (6) INCHES THE ENGINEER WILL DETENIME THE SUITABLIT OF ALL TOPSOIL.

URLASSFEE DECAMATION ALL MATERIALS, DECEMPING, DALLASSTERID DURING CONSTITUTION FOR HEXADELISSION CONSTITUTION DURING CONSTITUTION FOR HEXADELISSION CONSTITUTION, DALLASSE ALLASSE HEXADELISSION CONSTITUTION, DALLASSE ALLASSE HEXADELISSION CONSTITUTION, DALLASSE ALLASSE HEXADELISSION CONSTITUTION, DALLASSE ALLASSE HEXADELISSION CONSTITUTION, DALLASSE HEXADELISSION CONSTITUTION CONSTITUCIÓN CONS

RANDOW AND WARDLENAGE RESPONDESS OF THE UPPED WHITE THE WARDLENG THE QUANTIES REQUERT AND THE REMOVED STATES THE RESPONSIBILITY OF THE CONTINUE CONTRACT THE RESPONSIBILITY OF THE CONTRACT TO THE REMOVED STATES AND THE RESPONSIBILITY OF THE CONTRACT WALL BE BOUNDED TO THE REMOVED STATES AND THE REMOVED STATES THE RESPONSIBILITY OF THE CONTRACT WALL PRE-PER CUBIC AND ADDRESS AND ADDRESS AND THE REMOVED STATES AND ADDRESS AN

AGGREGATE BASE COURSE AGGREGATE FOR BASE COURSE SHALL BE CRUSHED LIMESTONE LEDGE ROCK AND SHALL CONFORT TO THE REQUIREMENTS FOR ONE (1) INCH AGGREGATE BASE COURSE MATERINAL AS SPECIFIED IN SECTION 882 OF THE STANDARD SPECIFICATIONS

DEFORE PLATERS BEFORE PLACEMENT OF THE AGGREGATE BASE COURSE, THE SUBGRADE SHALL BE PROOF ROLLED IN THE PRESENCE OF THE ENRIFEER WITH A LONDED DURY TRUCK TO VERIEV COMPACTION REGUREMENTS, ANY SOFT AREAS SHALL BE REPARED BY THE CONTRACTOR.

PERMANENT GRAVEL SURFACING PERMANENT GRAVEL SURFACING SHALL BE SIX (8) INCHES THICK. AGGREGATES FOR GRAVEL SURFACING SHALL BE THREE-QUARTER-INCH (34) LIMESTONE LEDGE ROCK AND SHALL CONFORM TO THE REQUIREMENTS IN SECTION 582 OF THE STANDARD SPECIFICATIONS.





3

EXISTING PROPOSED TDG MAJOR CONTOUR BEND ASPHALT TOWEY DESIGN GROUP, INC. BORE HOLE O. COMM COMMUNICATION LINE MINOR CONTOUR PROPERTY LINE 0 CAP 1060 _____ SECTION LINE CROSS CURB & GUTTER Ð DEFLECTION COUPLING XXXXXXXXXXXXXX DEMOLITION CITYO DEADWOOD F FIRE HYDRANT V GATE VALVE DRAINAGE LINE 5 LEFT TURN LANE EXCAVATION LIMITS P POST INDICATOR VALVE _____ FD _____ FOUNDATION DRAIN R REDUCER GAS LINE RIGHT TURN LANE GRAVEL FILTER SOCKS SANITARY SEWER CLEANOUT ______ MAJOR CONTOUR SANITARY SEWER MANHOLE MINOR CONTOUR SIGN PAVEMENT MARKING -STREET LIGHT * PERIMETER PROTECTION € TEE POWER CONDUIT TYPE B PROPERTY LINE X TYPE E ROOF DRAIN DEADWOOD GUN RANGE DEADWOOD SOUTH DAKOTA _____S _____ SANITARY SEWER MAIN SANITARY SEWER SERVICE _____ SECTION LINE SETBACK LINE REVISIONS: SIDEWALK ______ SILT FENCE STORM SEWER TOP SOIL BERM INTERNAL JOB NUMBER: 22-0 WATER MAIN 11" X 17" PLAN SET WATER SERVICE DESIGNED BY: MT DRAWN BY OR SURVEYED BY URVEY DATE: SHEET NAME: LEGEND SHEET NO

PROR TO GRADERI OPERATIONS OWNER SHALL REVIEW ALL EROSION AND SEDMENT CONTROL SECRI SHALL BEAVIEW AND AND ACCEPTED BY THE DWRER CONTRACTORS HILL GRAVEN DATE ACCEPTED BY THE DWRER CONTRACTORS HILL GRAVEN DATE AND ACCEPTED BY THE DWRER CONTRACTORS HILL GRAVEN DATE AND ACCEPTED BY THE DWRER CONTRACTORS HILL DATE AND ACCEPTED BY THE DWRER CONTRACTORS AND ACCEPTED BY THE DWREN ACCEPTED BY THE DWRENT AND ACCEPTED BY THE DWRENT ACCEPTED BY THE DWRENT ACCEPTED ALL DWRENT ACCEPTED ACCEPTED ACCEPTED BY THE DWRENT ACCEPTED B OWNER REPRESENTATIVE: COMPANY: CITY OF DEADWOOD, S CONTACT: TBD ADDRESS: DEADWOOD, SD 57732 EWAIL: TBD PHONE: 605.641.7733 *THE SURFACE ROUGHENING EROSION CONTROL MAY BE EXTENDED TO A MAXIMUM OF THREE (3) MONTHS ON A CASE BASIS IF THE OTT INSPECTOR HAS DETERMINED THAT THE SITE DEMONSTRATES THE FOLLOWING: APPROPRIATE SOIL CONDITIONS EXIST FOR THE METHODS OF ТВО БЛИКИСКИ ВО ОТА ОБЕ ВООТ ТВО БЛИКИСКИ ПО ВСЕ ОТА ОБЕ ВООТ НА ОТТИНИСТИ ТО ВСЕ ПО ВСЕ ОТАТИТАТ НЕ ОТООТОСНИКА И ОТТИНИСТИ ПО ВСЕ ОТАТИТАТ НЕ ОТООТОСНИКАТИ ОТОТИТЕЛИ АЛИКИ ПО ВСЕ ОТАТИТАТИ НЕ ОТООТОСНИКАТИ ВОЛТИКИ И ОТООТОСНИКАТИ ВО ОТООТОСНИКАТИ ВО СТАТИЗАТИЛИТО ПИТИТОТО КАТТ ВО СТАТИЗАТИЛИТО ПИТИТОТО КАТТ ВО СТАТИЗАТИЛИТО ПИТИТОТО КАТТ ВО СТАТИЗАТИЛИТОТО ПИТИТОТО КАТТ ВО СТАТИЗАТИЛИТОТО ПИТИТОТО КАТТ ОТООТОСНИКАТИЛИТОТО ПОВ ОСОО ОТООТОСТИИТИТОТО ТО СИГОТОСНИКАТИЛИТОТО ПОВ ОСОО ОТООТОСТИИТИТОТО ТО СИГОТОСТИИ ОТООТОСТИИТИТОТО ПОВ ОСОО ОТООТОСТИИТИТОТО ПОВ ОТООТО ПОВ ОТООТО ПОВ ОТООТОСТИИТИТОТО ПОВ ОТООТОСТИИТИТОТО ПОВ ОТООТОСТИИТИТОТО ПОВ ОТООТОСТИИТИТОТО ПОВ ОТООТО ПОВ ОТООТНИТИТО ПОВ ОТООТО ПОВ ОТО ПОВ CONTRACTOR: COMPANY: TBD CONTACT: ADDRESS: ADDRESS: EWAIL: PHONE: ROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE THE MOST OURBENT STANDARDS AND DETAILS OF THE CITY DESIGN DARDS. ANY VARIATION R ROM THE ABOVE REFERENCE DESIGN DARDS SHALL NOT BULLOWED UNLESS FORWALLY APPROVED IN NCE FROM THE ENRIFERT AND CITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) AND OTHER REQUIRED PAPERWORK TO BODENS. FOLLOWING COMPLETION OF THE PROJECT, THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF TERMINATION (NOT). IS STE GRADING PHASE UPON ISSUANCE OF ALL PERMITS, THE CONTRACTOR MAY PROCEED UPON ISSUANCE OF ALL PERMITS, THE CONTRACTOR MAY PROCEED APPROVED ISSO PHOLONG IN COMPLIANCE WITH THE GRADING PLAN AND APPROVED ISSO PHOLE OF ALL SEQUENT CONTROL. FACILITIES SHALL BECHIESCRE MAJOR GRADING ACTIVITIES IN ACCORDANCE WITH THE ISSO DESIGN ENGINEER: COMPAY: TOWEY DESIGN GROUP, INC. CONTACT: MICHAEL TOWEY, PE 89254 ADDRESS 475 VILLA DEIVIE ADDRESS BOX ELDER, SOUTH DAKOTA, USA 5719 EAAE. MTOWEY@TOWEYDESIGNGROUP.COM PHONE: 605 463 738 DEWATERING: DEWATERING OPERATIONS ARE EXPECTED, IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT FOR THE GENERAL DEWATERING PERMIT FROM ESCP. DURING ALL PHASES OF GRADING, THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED WHILE IN SERVICE. EROSION AND S PROJECT DESCRIPTION: THE FOLLOWING PROJECT IS THE REMOVAL, REMEDIATION AND RELOCATION OF AN ENTRANCE APPROUCH AND SITE REDESIGN TO MATCH NRA SPECIFICATIONS AT DEADWOODS GUN RANCE NENT STABILIZATION MEASURES: TURBED AREAS FROM GRADING OPERATIO ORARY COVER CROP. STORMWATER NANAGEMENT CONSIDERATIONS: STORMWATER WILL GENERALLY FLOW TOWARD THE EAST OF THE LOT AND SOTH SOUTH AND EAST OF YELLOW CREEK ROAD. A STATE OR ALL CONTINUES IN COALCY ON THE PROPERTY A MUTATION AND AN ALL CONTINUES IN COALCY ON THE PROPERTY A MUTATION OF A STATE O MATERIANCE: In the RELEASE SHALL ASSUME TWO QUALTERS PERSONNEL. IN THE RELEASE SHALL ASSUME TWO QUALTERS PERSONNEL. IN OUR OF THE PAD OF A STORM THAT IS DRE-VUE AS SHALL ON GRAVEN TO COMPANY TWO QUALTERS. IN STORM THE RELEASE THE DATES OF THE PAD OF A STORM THAT IS DREAMING THE AND ON THE DATES OF THE PAD OF A STORM THAT IS DREAMING THE AND OF THE DATES OF THE PAD OF THE ADDRESS OF A STORM THAT IS DREAMING THE IS DREAMING THE PAD OF THE ADDRESS OF A DREAMING THAT IS DREAMING THAT IS DREAMING THE ADDRESS OF THE ADDRESS OF A DREAMING THAT IS OF ADDRESS OF THE ADDRESS OF THE ADDRESS OF ADDR OWNER REPRESENTATIVE ENGINEER CERTIFICATION: I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DUAY REGISTERED PROCESSIONAL ENGINEER UNDER THE LAVIS OF THE STATE OF SOUTH DAKOTA. ADJACENT AREAS:

SITES ADJAVENT TO THE PROPOSED WORKA AREA ARE BOTH DEVELOPED AND UNDEVELOPED THERE ARE VARIOUS PRIVATE LOTS AS WELL AS BLM AND OTHER GOVERNMENT CVANED PROPERTIES. THE PRIVATE LOTS ARE SHOWN ON THE LOCATION OVERVIEW.

AREA FOR STOCKPILE AND STORAGE MAY SKAWATED MATERNAL TO BE REUSED MAY BE STOCKPILED WITHIN THE REUSET LIMET A LOCATION CHOSEN BY THE CONTRACTOR AND APPROVED BY THE CHMER AND DEWNEED, DUCASE DOCANTED MATERNAL DEPENDENTED DY AS LIFENSE, WHICH IN EAST PRICE SHAWLED HAVEN BE PROTECTED DY AS LIFENSE, WHICH IN EAST PRICE SHAWLED HAVEN AT A MINIUM OF # FROM THE TOEL OF THE PILE AND SEEDED WITH A THEVROPEN CONCERCEOPE. SCHEOULE;

SCHEDULE: THE FOLIOWING PROJECT SCHEDILE IS TO BE DETERMINED. A PROPOSED ORDER. OF PROJECT SEQUENCING WILL BE MADE AVAILABLE. IF THE CONTRACTOR PROPOSES TO UTBJZE A DIFFERENT SEQUENCING, THEY SHALL SUMMIT THAT THE EXPRESENT AND CITY FOR APPROVAL. EROSION CONTROL MEASURES INSTALLED WITH THE PROJECT WILL REMAIN IN PLACE AND REMOVED ONCE THE SITE HAS BECOME STABILIZED.

AREA DISTURBED. THE TOTAL SURFACE AREA TO BE DISTURBED IS APPROXIMATELY 9.20 ACRES.

EDIMENT CONTROL MEASURES: NR T FENCE, INLET SEDIMENTATION PROTECTION, TEMPORARY SEDIMEN

EGGENLAND SEDMENT CONTROL SEQUENCING: THE FOLLOWING ERGORA NOD SEDMENT CONTROL SEQUENCING SHALL BE FOLLOWING SHI HANDRER NORTRACING NUCLUEED IN THIS CONSTITUTION STIE AUTITY. CHANGES IN THE PROJECTS CONSTITUTION FUND AND THE INTERNET SHI SEQUENCE TO BE CHANGED AND CHANGES TO THIS THIS EROSON AND BEITIMENT CONTROL FUND. AND CHANGES TO APPROVED IN THE REINSERPRORT ON NAMES UCCENTIONS INTE FEL.

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чыкназа - чыкназа - чыкназаната поз депаратальных - чакназана - чакназаната поз депаратало ета - чакназана - - чакназана - чакназана - чакназана - чакназана - чакназана - - чакназана - чакназана - чакназана - чакназана - - чакназана - чакназана - чакназана - - чакназана - чакназана - - чакназана - чакназана - - чакназан REACHED ON STABILIZATION STOCKPILES. MAXIMUM TIME LIMITS OF LAND EXPOSURES FOR SELECTION OF EROSION CONTROLS: ROLS: ON CONTROL ICE ROUGHENING* METHOD MAXIMUM ALLOWABLE PERIOD OF EXPOSURE (MONTHS)

 SUBFACE FOUGHERING"
 1

 MULCHING
 12

 TEMPORARY REVEETATION
 12-24

 PERMANENT REVEETATION
 24-08 MORE

 SOIL STOCKPILE REVEGETATION
 24-08 MORE

 SOIL STOCKPILE REVEGETATION
 24

 LARLY APPLICATION OF FOOD BASE
 1



attenterong MICHAEL TOWEY, PE (SD#R254

SITTENE SILTERNE SILT

MUCKING SILT FENCE SHALL CONSIST OF REMOVING MUCK TRAPPED BY THE SILT FENCE AND SPREADING THE MATERIAL EVENLY OVER THE ADJACENT AREA TO COMPORE TO THE EXISTING GRADE. THE CONTRACTOR SHALL REMOVE MUCK WHEN THE SURFACE OF THE MUCK IS AT APPROXIMATELY 15 THE HIGHT OF THE SILT FENCE:

THE FEMALE OF THE SHITLE SEMANTICE STORE OF THE SHITLE SEMANT CONTROL WATLES SEDAMINT CONTROL WATLES CAN BE USED FOR PERMITTER CONTROL INSTALLED AT LOCATIONS AS SHOWN ON THE DRAWINGS AND AT LOCATIONS DETERMINED FOR THE ENGINEER JURING CONSTRUCTION. VELEVANMENTATION STILLE ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT THE SEDIMENT CONTROL WATTLES DO NOT CONTAIN NOONG WEED SEEDS. FOR DOMINOSI SOCIST THE CONTRACTOR SHALL ALSO PROVIDE CERTIFICATION THAT THE COMPOSIT USED IS REPERFICIAN NOONCOW SWEED SEEDS. CHARTON I GARDE FROM NOXICUS WEED SEEDS. THE CONTRACTOR SHALL REMAYE BEEMENT TRAPPED BY THE WATTLE WATTLE WATTLE USUBFACTOR SHALL REMAYE BEEMENT TRAPPED BY THE WATTLE WATTLE USUBFACTOR THE SEEDEN TRACATES ONE HAT THE WATTLE WATTLE USUBFACTOR SHALL REMAY TO A SECOND SECOND SECOND SECOND UNTLI THE VEGETATION IS ESTABLISHED AND GROWING THROUGH THE WATTERNAL.

ERDBONC DONIFICI, BLANKET LEGBI REDBONC DONIFICIO, BLANKET SHALL DE NISTALLED AT LOCATIONS AS SHOWN ON THE DRAWINGS AND AT LOCATIONS DETERMINED BY THE ENGINEER DURING CONSTRUCTION. ERDBONC CONTROL BLANKETS ARE PLACED INTO THE FOLLOWING CATEGORIES.

CATEGOREE THE 1 - USED FOR TEMPONEY STABLIZATION OF SLOPES OF LESS THAN 1941 - USED FOR TEMPONEY STABLIZATION OF SLOPES OF LESS THAN 1941 WERL AUGUST OF LANDER IN CHAINES AND CHAINES CHAINES USED IN CONCUMENT OF LOPES OF AUTOMICS CHAINES USED IN CONCUMENT OF LOPES AND CHAINES IN THE SLOPE OF TEMPONEY STABLIZATION OF SLOPES OF INFORMATION TYPE 4-USED FOR TEMPONEY STABLIZATION OF SLOPES OF INFORMATION CHAINES AND CONCUMENT OF LOPES OF UNIVERSE.

THE SEDIMENT TRAPS SHALL BE FILLED IN, SEEDED AND MULCHED WHEN FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED















