Rosebud Power Plant Annual Engineer's Inspection Report



Prepared for Rosebud Operating Services, Inc. by Allied Engineering Services, Inc. 2017 Report

Posted: January 19, 2018



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INTRODUCTION

This annual engineer's report presents Allied Engineering's inspection of the CCR landfill and assessment of the landfill operations for the Rosebud Power Plant *in Rosebud County, Montana* in order to fulfill the requirements of the CCR rule as published in the Federal Register on April 17, 2015 and July 2, 2015 and its effective date of October 19, 2015. The applicable rule section is 40 CFR Parts 257 and 261. The landfill in this report holds inert hydrated fly ash, which is solid and nearly impermeable to water, similar to concrete. This report follows the same format as the previous Engineer's Annual Inspection Reports.

The project site is located approximately seven miles north of the town of Colstrip, Montana in the southwest quarter of Section 29 and the northwest quarter of Section 32 Township 3 North, Range 41 East (Latitude 45.978859°, Longitude -106.663772° (WGS 84)). Vicinity maps are included on Sheet CO-3 & CO-4 in Appendix A. The landfill serves an on-site Power Plant owned by Colstrip Energy Limited Partnership (CELP). The Power Plant and the landfill are operated by Rosebud Operating Services, Inc.

The landfill area covered by this report is an active landfill located on the subject property. There is also a closed landfill, last used in October, 2005, that has since been reclaimed in general accordance with permits and regulations at the time. This closed landfill is not subject to regulation by the above referenced rules and is not the subject of this report. The active landfill includes Phase I and Phase II of a contiguous landfill permitted in 1996 and placed in service in October, 2005. This active landfill is subject to regulation by the above referenced CCR rules.

The information contained herein is based on an investigation and analysis of the property's topographical and subsurface conditions, a review of existing permits, regulatory requirements, maps and literature for the project area as related to the landfilling operations of combusted coal residuals (CCR), more familiarly referred to as fly ash. The purpose of this report is to assess existing conditions, fulfill the Engineer's Annual Inspection requirements of the CCR rule, and provide recommendations for the ongoing landfilling operations.

BACKGROUND

Rosebud Power Plant is a waste coal burning facility using a fluidized bed reactor. During the burning process of the coal, fly ash or combusted coal residuals (CCR) are produced. The CCR are either sold for commercial/industrial purposes or landfilled on-site near the power plant. The active landfill, consisting of two phases, is located northwest of the power plant. Construction of Phase 1 was completed and began receiving ash when the now retired landfill was closed. Construction of Phase 2 was initiated in the first week of September, 2015, completed in December, 2015, and has been receiving Ash since the spring of 2016. Ash has continued to be deposited in both phases, but is currently placed primarily in Phase 2. Once the ash surface in Phase 2 reaches the ash surface elevation of Phase 1, the two phases will be operated as one continuous surface.

In 1996, Chandler Geotechnical, Inc. (a predecessor to Allied Engineering Services, Inc.) was hired as a sub-consultant to JSM, Inc. to provide engineering analysis and design of the current active landfill (Phases 1 and 2). During the initial construction of Phase 1, the planned landfill footprint/area was reduced. Over the course of operations at the plant, fly ash was sold in certain years; thus, the amount of fly ash placed in the Phase 1 area was less than anticipated with the original design and has not yet reached its maximum storage capacity. These changes resulted in the need for minor modifications of

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the original design of the landfill area. Phase 2 modifications began in September of 2015 and were completed in December of 2015. Construction was completed for Phase 2 of the active landfill in general conformance with the original 1996 design with modifications undertaken during construction under the direction of Allied Engineering Services, Inc. The active landfill modifications were designed to store the rest of the expected volume of 635,897 CY (at the time of the redesign, late 2015/early 2016) for the remainder of the anticipated lifetime of the power plant. This volume assumed that no fly ash will be sold and was considered a conservative value. This volume is also less than the originally designed and permitted ash quantity. The original design had a final storage volume of approximately 2,200,000 CY and the revised design will have a total storage volume of approximately 1,300,000 CY.

REGULATORY SETTING

As of April 17, 2015, new rules for coal combustion residuals (CCR) were published in the Federal Register Volume 80, Number 74, dated Friday April 17, 2015. The applicable sections include 40 CFR Parts 257 and 261. These rules spell out the conditions for existing operating CCR landfills such as the active landfill at the Rosebud Power Plant. The rules provide location restrictions, structural stability assessment requirements, groundwater monitoring requirements, surface water protection, design and operating criteria, along with inspection requirements.

The power plant is currently operating under several permits that include protection criteria for air, surface water, and groundwater quality. Permits include:

- Montana Ground Water Pollution Control System (MGWPCS) Permit No. MTX000052
- Multi-Sector General Permit for Storm Water Discharges Associated with Industrial Activity.
 Permit No. MTR000058
- Air Quality Permit No. #2035-06

The applicable requirements of the current CCR rule cover active CCR landfills and exclude closed landfills.

EXISTING CONDITIONS

This third annual inspection report details the operation efforts of ash placement, landfill construction and maintenance, monitoring of the drainage piping system and groundwater. Over the course of 2017, an additional CCR document was produced to satisfy the following regulations:

1. 40 CFR § 257.90-§ 257.98 Groundwater Monitoring and Action Plan

In 2017, the power plant experienced an operational failure that caused a shutdown from July 23, 2017 to December 5, 2017. During this period, no ash was produced or sold. During 2017 when the plant was running, approximately 2,244 tons (~2131 CY) of fly ash was sold and not placed in the Phase 2 Landfill.

EXISTING CONDITIONS AND ANNUAL ENGINEER'S INSPECTION REPORT

The following section quotes the requirements of the EPA CCR rule with the findings from the Engineer's Annual Inspection written as a response to each. The EPA CCR rule excerpts are listed in *italics*. Responses are provided in **bold**.

§257.64 Unstable Areas

a) An existing or new CCR landfill, existing or new CCR surface impoundment, or any lateral expansion of a CCR unit must not be located in an unstable area unless the owner or operator demonstrates by the dates specified in paragraph (d) of this section that recognized and generally accepted good engineering practices have been incorporated into the design of the CCR unit to ensure that the integrity of the structural components of the CCR unit will not be disrupted.

As demonstrated in the 2015 Annual Engineer's Inspection Report, this CCR landfill is not located in an unstable area.

- b) The owner or operator must consider all of the following factors, at a minimum, when determining whether an area is unstable.
 - On-site or local soil conditions that may result in significant differential settling;

Differential settlement within the landfill was not observed. The design and construction included the removal of topsoil and 5-feet of subsoil prior to placement of fly ash. The construction sequencing with haul truck traffic provided a compaction effort of the subsoil. The base of the Phase 2 area of the active landfill was compacted by a vibratory roller before ash placement. Pozzolanic characteristics of hydrated fly ash provide a relatively strong mass of material that distributes the load evenly across the landfill footprint. Point load tests of hydrated ash core samples were completed by Ray Womack in 1992 on the retired CCR landfill. The results of the testing indicated compressive strength values comparable to a weak rock or concrete. The shear stresses exerted at depth by the weight of the ash landfill are proportional to the steepness and the height of the finished slope, and to the unit weight of the landfill materials. Due to the gentle overall finished side slopes of 3H:1V (considering the 10' wide benches) and the low density of the ash (about 80 pounds per cubic foot), the ash landfill will exert considerably less stress on the foundation materials than many of the natural slopes in the immediate vicinity of the landfill.

2) On-site or local geologic or geomorphologic features

The landfill is located in the mapped Lebo member of the Fort Union Formation. As mentioned previously, the relative low-density characteristics of the fly ash distributed over a large area should not exert significant force to the underlying geology. There are no observed or mapped faults in the immediate vicinity of the active landfill. In addition, there is no indication of settlement in the closed landfill located approximately 1,300 feet southeast of the active landfill.

The landfill is characterized as a cross valley fill across two ephemeral swales. The design includes water conveyance under the landfill by way of piping systems with bypass spillways designed to divert water around the perimeter in order to limit oversaturation of vicinity soil. To assure long term drainage stability, the final configuration for closure includes perimeter conveyance of water and

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abandonment of the piping system under the landfill (See 2016 Annual Engineer's Inspection Report for perimeter conveyance plans).

3) On-site or local human-made features or events (both surface and subsurface).

The design of the landfill accounted for appropriate side-slopes to limit the likelihood of instabilities. The original design as well as the 2015 design update utilized 3H:1V side slopes for the man-made berms surrounding the landfill area. This side slope is a common and conservative reclamation slope throughout the country, and specifically in the local Colstrip area which includes extensive coal mines.

The active landfill is located across two ephemeral drainages. The original design called for three pipes that convey the natural drainage of the active landfill site. The main drainage covers an area of 103 acres with a secondary drainage covering an area of 16 acres. The original design utilized a HDPE dual wall corrugated pipe. The reason for the selection of this pipe was for its flexibility which would cause bridging of the soil in a deep bury situation. The 2015 design update continued the use of an HDPE pipe, but selected a steel-reinforced HDPE pipe for added stability. The storm water conveyance pipes themselves are likely the most vulnerable element in the landfill system in terms of long term stability (in the event of a pipe failure). As stated previously, a surface conveyance system will replace the current piping system.

c) The owner or operator of the CCR unit must obtain a certification from a qualified professional engineer stating that the demonstration meets the requirements of paragraph (a) of this section.

The landfill area was designed by a professional engineer. Additionally, this report serves as Allied Engineering Services, Inc.'s certification that the landfill is not situated in an unstable area.

- d) The owner or operator of the CCR unit must complete the demonstration required by paragraph (a) of this section by the date specified in either paragraph (d)(1) or (2) of this section.
 - 1) For an existing CCR landfill or existing CCR surface impoundment, the owner or operator must complete the demonstration no later than October 17, 2018.

This requirement was met prior to the first annual Engineer's Inspection Report (dated January 19, 2016) which was before the deadline, and was provided to the facility for placement in their operating record.

2) For a new CCR landfill, new CCR surface impoundment, or any lateral expansion of a CCR unit, the owner or operator must complete the demonstration no later than the date of initial receipt of CCR in the CCR unit.

Not applicable, the active CCR landfill area has been in use prior to the regulatory timeframe of October 19, 2015.

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3) The owner or operator has completed the demonstration required by paragraph (a) of this section when the demonstration is placed in the facility's operating record as required by § 257.105(e)

Reporting requirements as outlined in § 257.105(e) will be followed. CELP maintains operational requirements on their webpage (http://www.celpccr.com)

4) An owner or operator of an existing CCR surface impoundment or existing CCR landfill who fails to demonstrate compliance with the requirements of paragraph (a) of this section by the date specified in paragraph (d)(1) of this section is subject to the requirements of § 257.101(b)(1) or (d)(1), respectively.

Acknowledged.

5) An owner or operator of a new CCR landfill, new CCR surface impoundment, or any lateral expansion of a CCR unit who fails to make the demonstration showing compliance with the requirements of paragraph (a) of this section is prohibited from placing CCR in the CCR unit.

Not applicable to existing landfills and the requirements of paragraph (a) were met with the first annual Engineer's Inspection Report (dated January 19, 2016).

e) The owner or operator of the CCR unit must comply with the recordkeeping requirements specified in § 257.105(e), the notification requirements specified in § 257.106(e), and the Internet requirements specified in § 257.107(e)

Acknowledged.

§257.84 Inspection requirements for CCR Landfills

- b) Annual inspections by a qualified professional engineer.
 - 1) Existing and new CCR landfills and any lateral expansion of a CCR landfill must be inspected on a periodic basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The inspection must, at a minimum, include:
 - A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., the results of inspections by a qualified person, and results of previous annual inspections); and

Weekly inspections have been undertaken by facility personnel during the calendar year of 2017. A review of the weekly inspection reports reveals no significant issues with the existing CCR landfill. A few of the highlights of 2017 are:

5/12/17	Phase I ash surface was sprayed with a surfactant solution to reduce dust.
5/26/17	Work was done on surface erosion on Phase I embankments, east end.
7/23/17	Rosebud Power Plant Shut Down
9/8/17	16 loads of coal where placed on Phase II ash surface for storage.
10/13/17	Ash surface heaves were flattened with grader and watered.

The ash was recorded to have surface cracks and heaves after drying. It is believed these issues are caused by contraction and expansion associated with the nature of the ash and its hydration process. These areas were remixed by re-grading of the affected areas back to a flat surface and re-watering. By addressing these heaving and cracking areas when they arise on the surface (during normal operation) it will better mix the ash and help even out hydration of the ash layer. Copies of the weekly inspection reports are provided in Appendix C. The landfill continues to be operated in general conformance with the original design. No new ash has been placed on Phase 1 in 2017 and has only been graded flat for vehicle storage. The Phase 2 area has received all the ash for 2017. Soil containment berms will not be needed until the ash reaches an elevation of about 3150 FT (Current elevation is about 3137 FT). At this elevation, containment berms will be constructed on the perimeter of the ash as the landfill elevation continues upward.

ii. A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit.

Personnel from Allied Engineering Services, Inc. have visited the site on multiple occasions. Recent site visit dates are as follows:

- October 23, 2017 (Groundwater Monitoring Site Visit)
- November 14, 2016*

The date indicated with the * was the primary inspection of the landfill area and existing piping and was most applicable to the 'Annual Engineers Inspection'. The other site visit included some inspection in support of the Engineers Report but also focused on the existing landfill and groundwater monitoring requirements.

During the primary inspection, test holes were dug to measure the soil cover on the Closed and Phase 1 landfills. These results are shown in Appendix B. The test holes were dug to investigate the existing soil cover and investigate erosion issues

- 2) Inspection report. The qualified professional engineer must prepare a report following each inspection that addresses the following:
 - i. Any changes in geometry of the structure since the previous annual inspection;
 - ii. The approximate volume of CCR contained in the unit at the time of the inspection;
 - iii. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit; and
 - iv. Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

The geometry of the landfill is actively changing as CCR is placed in lifts and hydrated. The attached asbuilt survey sheets depict the topography of the ash surface as of November 14, 2017. The elevation of the ash placed in Phase 2 has changed an average of 8.34-ft since the last as-built survey on November 9, 2016. The general shape of Phase 2 is concave which captures precipitation within the ash footprint. Currently, coal is temporarily being stored in the Phase 2 footprint as the coal plant is being worked on and was not measured as part of this report. The average elevation of Phase 1 and 2 is now 3160-FT and 3137-FT respectively. A total of 108,560 CY of ash was placed in both Phases 1 & 2 during the time between as-built surveys.

Routine cleaning and maintenance in the installed piping under the landfill has been observed. All piping installed in 2015, along with the previously existing piping is functioning as designed with inplace trash racks and rock riprap.

Landfill Volumes Table

Description	Volume
Ash Placed in Phase 1	344,310 CY
Ash Placed in Phase 2	124,470 CY
Closed Landfill Ash Placed	836,000 CY
Stockpile 1 – Top Soil	6,000 CY
Stockpile 2 – Sub Soil	82,460 CY
Stockpile 3 – Sub Soil	5,090 CY
Stockpile 4 – Sub Soil	27,430 CY

^{*}Soil volumes are approximate and estimated from topographic data taken on 11/14/2017. Stockpiles may have been changed since this survey date.

CONCLUSION

The landfill inspection at the Rosebud Power Plant revealed that there is currently no significant or damaging active settlement or significant stability issues related to landfilling of CCR. As mentioned previously, additional soil cover should be provided on the existing embankments. All existing piping is functioning as designed, and all disturbed areas have been hydro-seeded.

- 3) Timeframes for conducting the initial inspection
 - i. Existing CCR landfills. The owner or operator of the CCR unit must complete the initial inspection required by paragraphs (b)(1) and (2) of this section no later than January 18, 2016.

The first Annual Inspection report was completed prior to the stated deadline and has therefore addressed this requirement.

ii. New CCR landfills and any lateral expansion of a CCR landfill.

The owner or operator of the CCR unit must complete the initial annual inspection required by paragraphs (b)(1) and (2) of this

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section no later than 14 months following the date of initial receipt of CCR in the CCR unit.

Not applicable to the existing landfill.

4) Frequency of inspections. The owner or operator of the CCR unit must conduct the inspection required by paragraphs (b)(1) and (2) of this section on an annual basis. The date of completing the initial inspection report is the basis for establishing the deadline to complete the first subsequent inspection. Any required inspection may be conducted prior to the required deadline provided the owner or operator places the completed inspection report into the facility's operating record within a reasonable amount of time. In all cases, the deadline for completing subsequent inspection reports is based on the date of completing the previous inspection report. For purposes of this section, the owner or operator has completed an inspection when the inspection report has been placed in the facility's operating record as required by § 257.105(g)(9).

The Engineer's Inspection Report will be completed annually with the potential to complete them more frequently if a deficiency or release is identified in the facility weekly inspections.

5) If a deficiency or release is identified during an inspection, the owner or operator must remedy the deficiency or release as soon as feasible and prepare documentation detailing the corrective measures taken.

Acknowledged.

CERTIFICATION

This report was prepared by Allied Engineering Services, Inc., under the direction of Douglas S. Chandler, PhD, PE, with assistance from Andrew Graham, PE, and QC review by Brock Athman, PE.

ALLIED ENGINEERING SERVICES, INC

Douglas S. Chandler, PhD, PE

Andrew S. Graham, PE

QC Approval: Brock D. Athman, PE

BROCK D.

ATHMAN

No. 19765PE

ATHMAN

CENSE

CENSE

CONTROLL

CON

01- 9-18 No. 40761PE

REFERENCES

- 1. Environmental Protection Agency, 2015. "Federal Register", Vol. 80, No. 74, Part 257.
- 2. Hydrologic Analysis and Design, Third Edition. McCuen, Richard. 2005
- Montana Bureau of Mines and Geology, 2007. Geologic Map of the Lame Deer 30' x 60' quadrangle, eastern Montana. Vuke, S.M., Heffern, E.L., Bergantino, R.N., and Colton, R.B. Accessed via the USGS National Geologic Map Database Map View. Accessed 12/23/15 http://ngmdb.usgs.gov/maps/mapview/
- 4. Montana Bureau of Mines and Geology, Groundwater Information Center, Well log data website, http://mbmggwic.mtech.edu/sqlserver/v11/menus/menuData.asp. Accessed 1/6/15
- 5. Natural Resource Conservation Service, Web Soil Survey. http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm Accessed 12/23/15.
- 6. Rosebud Power Plant Ash Disposal Site Engineering Design and Construction Specifications by Chandler Geotechnical. Chandler, D.S. dated July 16, 1996.

Appendix A: Plan Set – Fly Ash Landfill Post-Closure Design - Dated September 15, 2016

ROSEBUD EXISTING LANDFILL

EXISTING LANDFILL CLOSURE PLAN

PROJECT LOCATION: 6.5 MILES NORTH OF COLSTRIP, MT ON HIGHWAY 39

LEGAL DESCRIPTION: NW $\frac{1}{4}$, SECTION 32, TOWNSHIP 3N, RANGE 41E, P.M.M., ROSEBUD COUNTY, MT

OWNER: COLSTRIP ENERGY LIMITED PARTNERSHIP (CELP) CLIENT: ROSEBUD OPERATING SERVICES, INC.

1087 W. RIVER STREET, SUITE 200

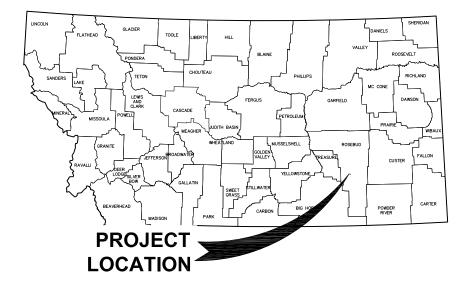
BOISE, ID 83702

ROSEBUD OPERATING SERVICES, INC. 1087 W. RIVER STREET, SUITE 200

BOISE, ID 83702

AUGUST 2, 2017

SET NO. _____



PRINCIPAL-IN-CHARGE: DOUG CHANDLER, PE, Ph.D

PROJECT ENGINEER: ANDREW S. GRAHAM, PE

QC REVIEW: BROCK D. ATHMAN, PE

PROJECT SURVEYOR: KYLE THOMPSON, PLS

GREG FINCK, PLS

PROJECT BOUNDARY

From the state of the stat



PROJECT SITE
ROSEBUD POWER PLANT

VICINITY MAP

0 2000 4000 6000

SCALE (FEET)

32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770 www.alliedengineering.com

Civil Engineering Geotechnical Engineering Land Surveying



ROSEBUD EXISTING LANDFILL

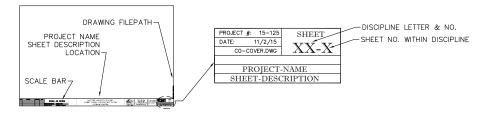
SHEET INDEX

SHEET NO.	
GENERAI	LSHEETS
CO-1	COVER SHEET
C0-2	SHEET INDEX, LEGEND, & GENERAL NOTES
DRAINAC	GE SHEETS
C1-1	DESIGN PLAN - EXISTING LANDFILL
C1-2	PROFILE VIEW - EXISTING LANDFILL PROFILE 1
C1-3	PROFILE VIEW — EXISTING LANDFILL PROFILE 2
DESIGN I	PLAN
C2-1	DESIGN PLAN - EXISTING LANDFILL DRAINAGE CAP
C2-2	PLAN & PROFILE - DRAINAGE WAY 4
C2-3	PLAN & PROFILE - DRAINAGE WAY 4
DETAILS	
C3-1	DETAILS - SWALE SECTIONS
C3-2	DETAILS
E-1	EASEMENTS - DRAINAGE WAY 4
SLOPE FI	GURES
S-1	PHASE 1 LANDFILL SLOPES
S-2	EXISTING CLOSED LANDFILL SLOPES

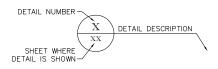
GENERAL NOTES:

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALLIED ENGINEERING'S PLAN SET; ALONG WITH THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), SIXTH EDITION.

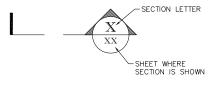
AESI STANDARD BORDER FORMAT



PLAN SHEET DETAIL CALLOUTS



PLAN SHEET SECTION CALLOUTS

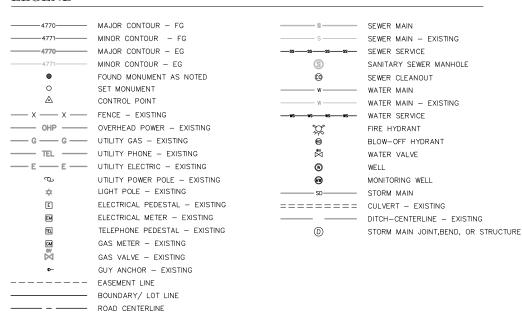


LEGEND

=== ROAD - CURB

STREET SIGN

CONCRETE SIDEWALK



CIVI	L ABBREVIATIONS:
AESI AC AVE	ALLIED ENGINEERING SERVICES, INC. ACRE AVENUE
BLDG BM BOG	BUILDING BENCHMARK BACK OF GRATE (GUTTER)
CI CL CMP CO COB CONC CY	CAST IRON CENTERLINE CORRUGATED METAL PIPE CLEAN OUT CITY OF BOZEMAN CONCRETE CUBIC YARD
DI DIA DWG	DUCTILE IRON DIAMETER DRAWING
E EA EG ELEV EOG EOP EX	EAST EACH EXISTING GRADE ELEVATION EDGE OF GRAVEL EDGE OF PAVEMENT EXISTING
FETS FG FHYD FL FL FM FT	FLARED END TERMINAL SECTION FINISHED GRADE FIRE HYDRANT FLANGE FLOWLINE SEWER FORCE MAIN FEET
GPM GV	GALLONS PER MINUTE GATE VALVE
HDPE HORZ HP HWY	HIGH DENSITY POLYETHYLENE HORIZONTAL HIGH POINT HIGHWAY
IE IN INV	INVERT ELEVATION INCH INVERT
LF LP LT	LINEAR FEET LOW POINT LEFT
MAX MH MIN MJ MP MPWSS MSU	MAXIMUM MANHOLE MINIMUM MECHANICAL JOINT MID POINT MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS MONTANA STATE UNIVERSITY
N	NORTH
PC PE PE PI PL PSI PT PVC	POINT OF CURVATURE PLAIN END POLYETHYLENE POINT OF INTERSECTION PROPERTY LINE POUNDS PER SQUARE INCH POINT OF TANGENCY POLYVINYL CHLORIDE
R RP RCP ROW RT	RADIUS RADIUS POINT REINFORCED CONCRETE PIPE RICHT-OF-WAY RICHT
S SCH SD SECT SG S SS ST STA STD SY	SOUTH SCHEDULE STORM DRAIN SECTION SUBGRADE SANITARY SEWER MAIN SANITARY SEWER SERVICE STREET STATION STANDARD SQUARE YARD
TBM TBC	TEMPORARY BENCH MARK TOP BACK OF CURB

NO.	REVISIONS	DRAWN BY	DATE		
				PROJECT ENGINEER: DSC	DRAWN BY: ASG
				DESIGNED BY: ASC BDA	REVIEWED BY: DSC BDA

ROSEBUD EXISTING LANDFILL SHEET INDEX, LEGEND, & GENERAL NOTES ROSEBUD COUNTY, MT

32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770 www.alliedengineering.com

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UNDERGROUND

VITRIFIED CLAY VERTICAL

WATER MAIN WEST

WITH WITHOUT WATER SERVICE

UG

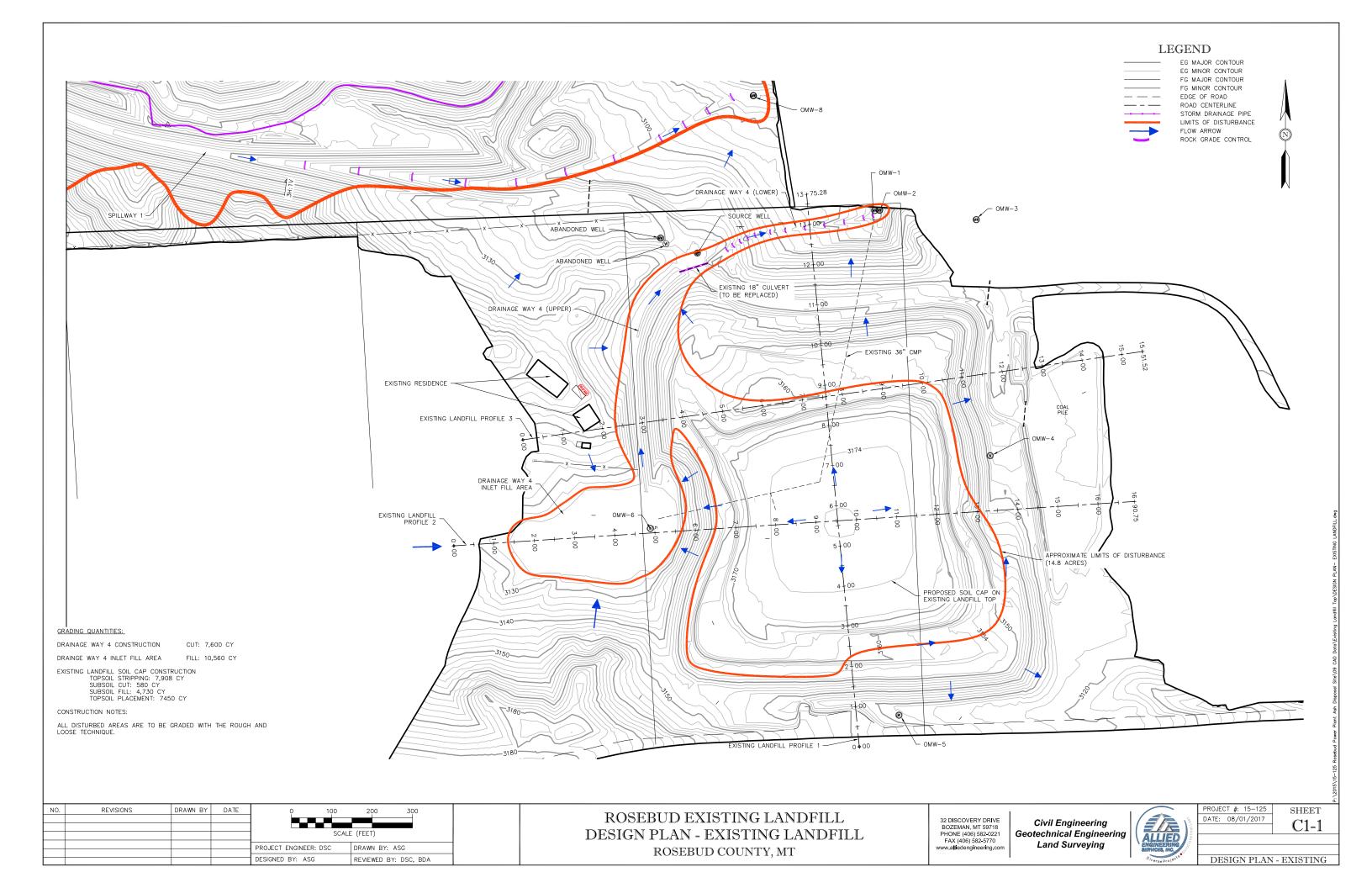
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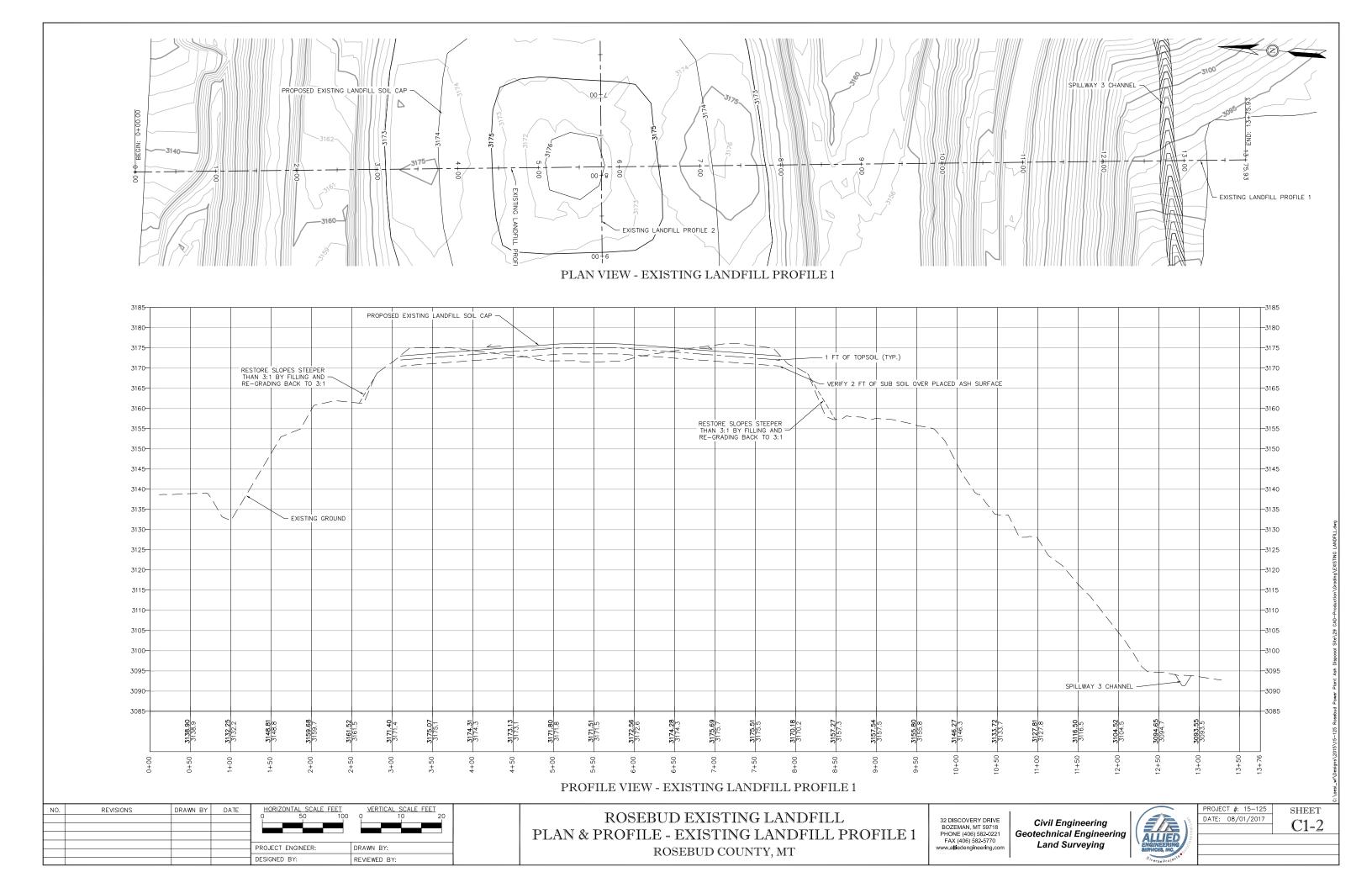
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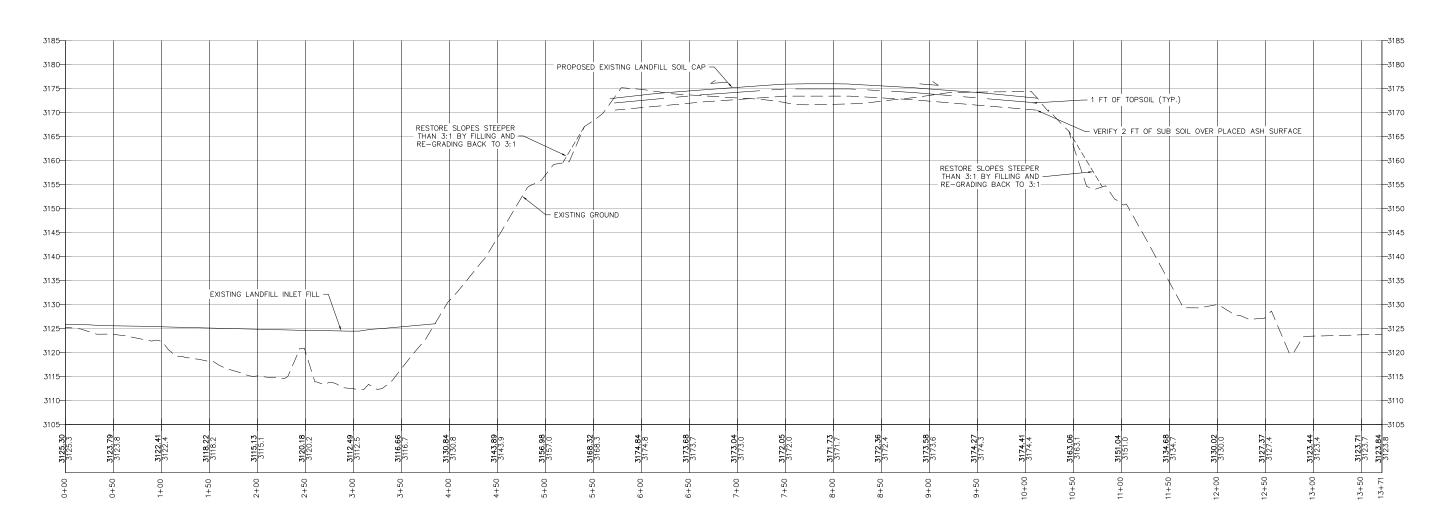
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INDEX, LEGEND, & NOTES





PLAN VIEW - EXISTING LANDFILL PROFILE 2



PROFILE VIEW - EXISTING LANDFILL PROFILE 2

NO.	REVISIONS	DRAWN BY	DATE	HORIZONTAL SCALE FEET	VERTICAL SCALE FEET
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				DESIGNED BY:	REVIEWED BY:

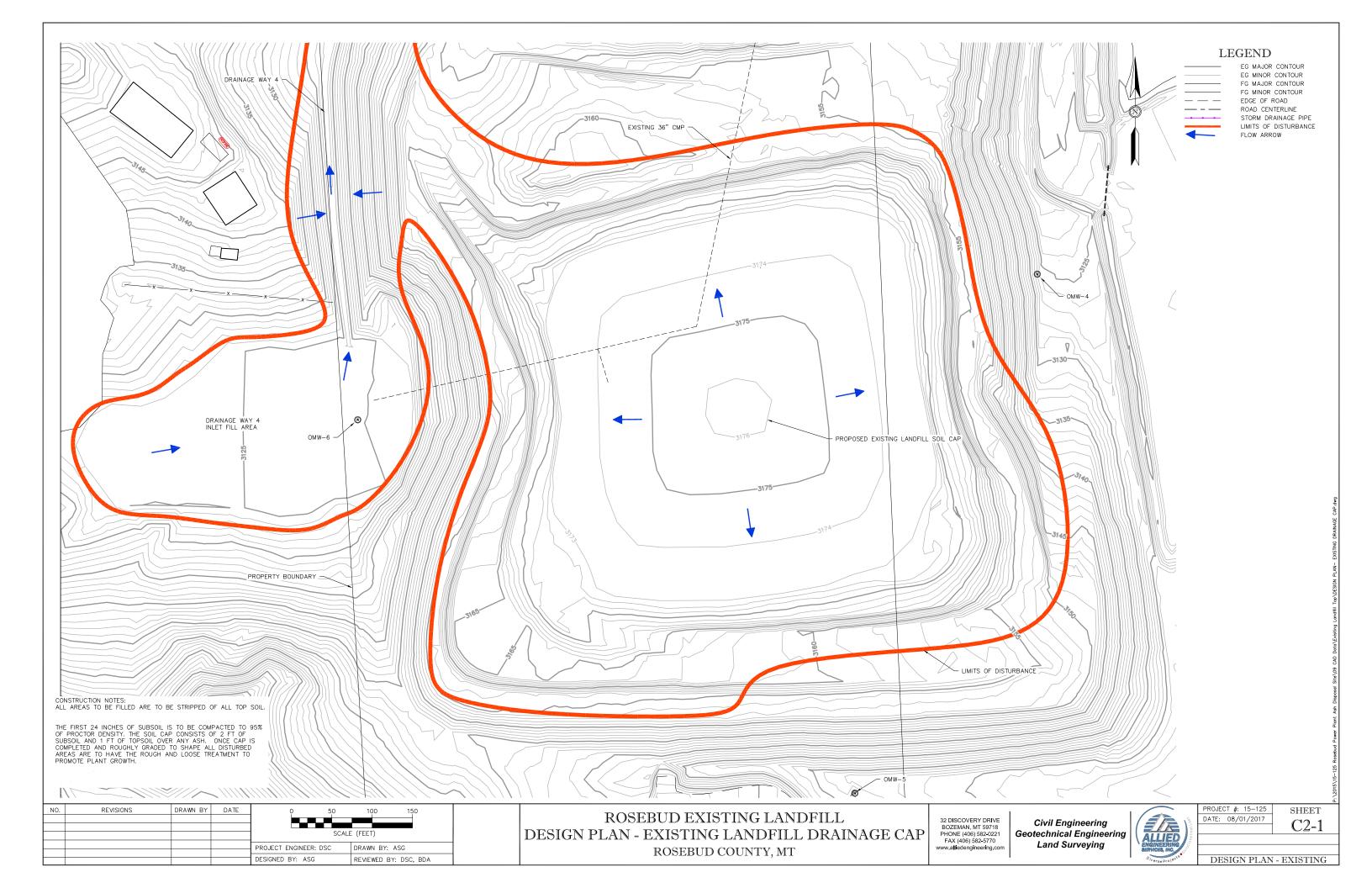
ROSEBUD EXISTING LANDFILL
PLAN & PROFILE - EXISTING LANDFILL PROFILE 2
ROSEBUD COUNTY, MT

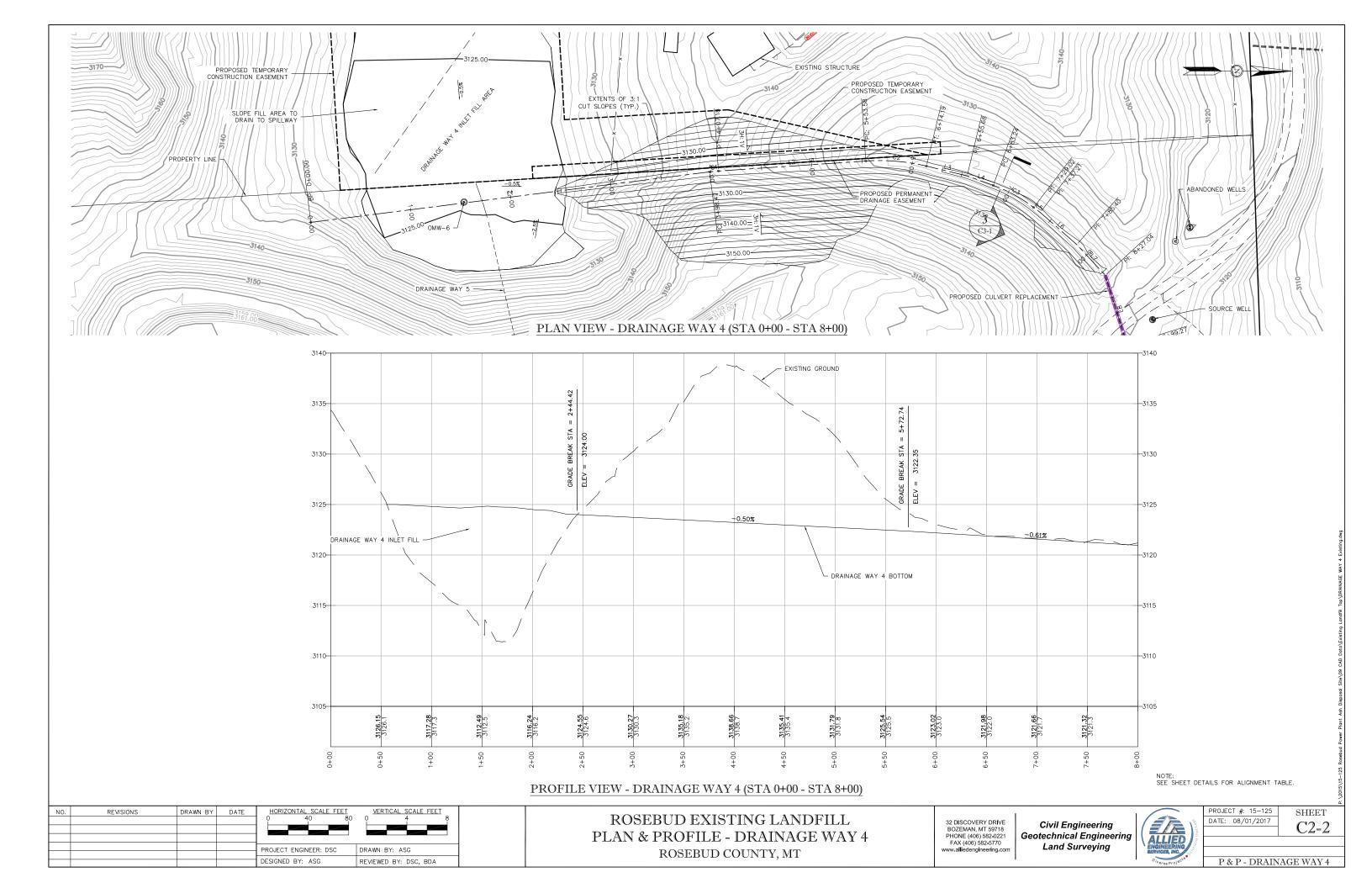
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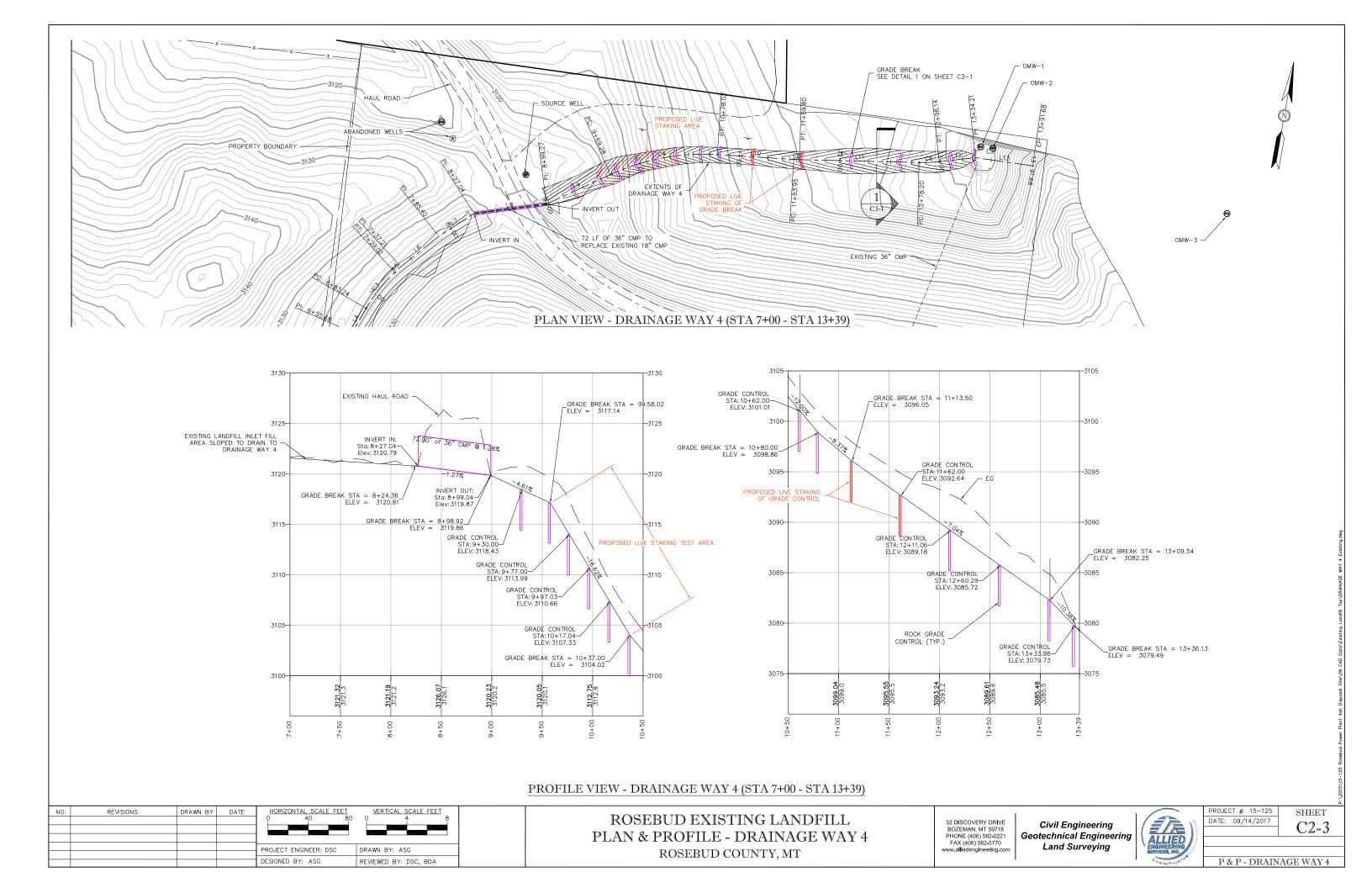
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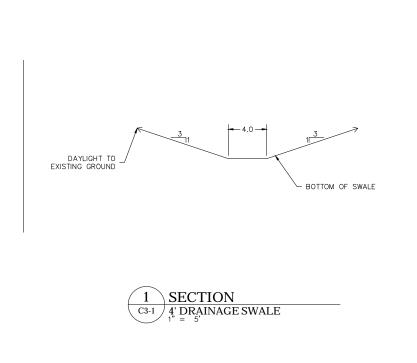


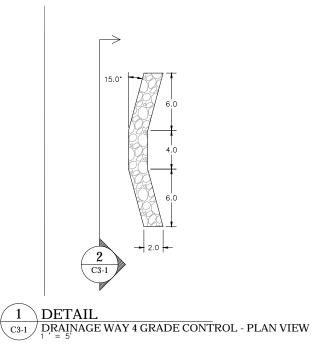
PROJECT #: 15-125 DATE: 08/01/2017 SHEET C1-3

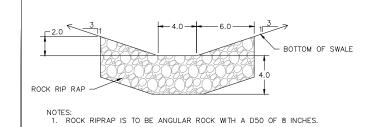








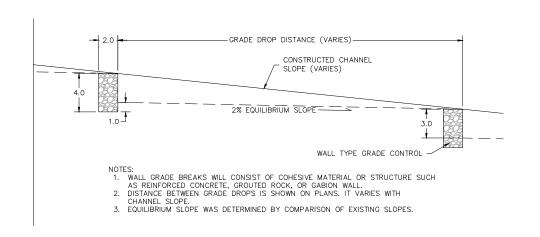




2 SECTION

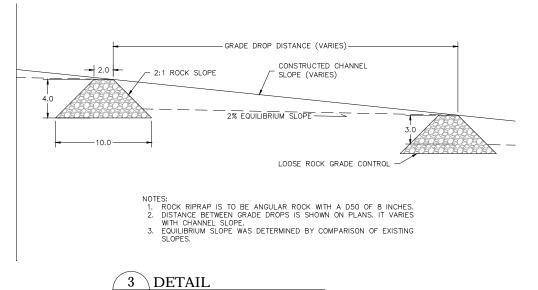
C3-1 DRAINAGE WAY 4 GRADE CONTROL

" = 5'



TYPICAL WALL GRADE CONTROL PROFILE

2 DETAIL



C3-1 TYPICAL LOOSE ROCK GRADE CONTROL PROFILE

NO.	REVISIONS	DRAWN BY	DATE			
				PROJECT ENGINEER: DSC	DRAWN BY: ASG	1
				DESIGNED BY: ASG	DEVIEWED DV. DCC DDA	1
				DESIGNED BT: ASG	REVIEWED BY: DSC, BDA	

ROSEBUD EXISTING LANDFILL DETAILS - SWALE SECTIONS ROSEBUD COUNTY, MT

32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770 www.alliedengineering.com

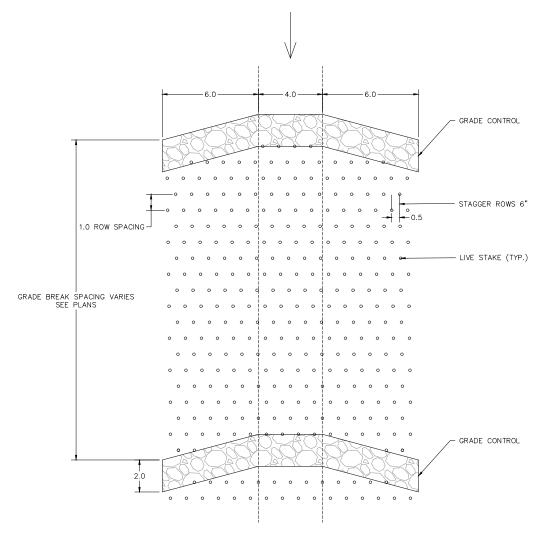
Civil Engineering Geotechnical Engineering Land Surveying

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PROJECT #: 15-125	SHEET
DATE: 09/14/2017	C0 1
	C3-1

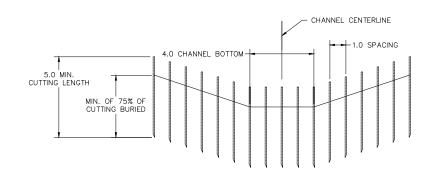
DETAILS - SWALE SECTIONS

SECTION VIEW - TYPICAL FULL CHANNEL LIVE STAKING

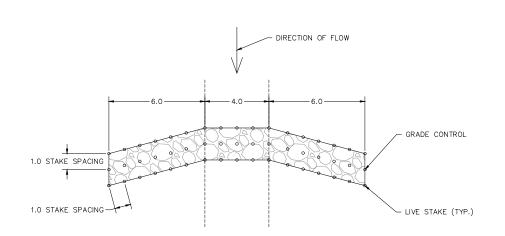


PLAN VIEW - TYPICAL FULL CHANNEL LIVE STAKING

C3-2 / DRAINAGE WAY 4 - TOTAL CHANNEL LIVE STAKING DETAIL



SECTION VIEW - TYPICAL GRADE BREAK LIVE STAKING



PLAN VIEW - TYPICAL GRADE BREAK LIVE STAKING

2 DETAIL C3-2 DRAINAGE WAY 4 - TOTAL CHANNEL LIVE STAKING DETAIL

- LIVE STAKING SPECIFICATIONS:
 1. CUTTINGS USED IN STAKING MUST BE A MINIMUM LENGTH OF 5 FT WITH A MINIMUM DIAMETER OF 1".
- 2. LARGER DIAMETER AND LENGTH CUTTINGS SHOULD BE USED WHEN PLACED IN ROCK (3-5" DIAMETER, 5-10' LENGTH).
- 3. CUTTINGS ARE TO BE BURIED A MINIMUM OF ¾ IN THE GROUND.

 4. PREFERED SPECIES OF CUTTINGS ARE: PLAINS COTTONWOOD (Populous deltiods), AND BLACK COTTONWOOD (Populous trichocarpa).
- CUTTINGS ARE BEST HARVESTED FROM LIVE DORMANT TREES, 2-7 YEARS OLD. PREFERRED TIMING OF PLANTING IS LATE SPRING AFTER PEAK RUN-OFF.

- 7. IT IS RECOMMENDED TO SOAK CUTTINGS FOR A MINIMUM OF 24 HOURS BEFORE PLANTING.

 8. ADDITIONAL PLANTING INFORMATION CAN BE FOUND IN THE USDA, NRCS TECHNICAL NOTE PLANT MATERIALS NO. 23 HOW TO PLANT WILLOWS AND COTTONWOODS FOR RIPARIAN RESTORATION.

NO.	REVISIONS	DRAWN BY	DATE			
				PROJECT ENGINEER: DSC	DRAWN BY: ASG	1
				DECIDIES BY 100		1
				DESIGNED BY: ASG	REVIEWED BY: DSC, BDA	

ROSEBUD EXISTING LANDFILL **DETAILS - LIVE STAKING** ROSEBUD COUNTY, MT

32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770

Civil Engineering Geotechnical Engineering Land Surveying



PROJECT #: 15-125	SHEET
DATE: 09/14/2017	Coo
	U3-2

DETAILS - LIVE STAKING

NATIVE VEGETATION DESCRIPTION - BIG SAGEBRUSH STEPPE

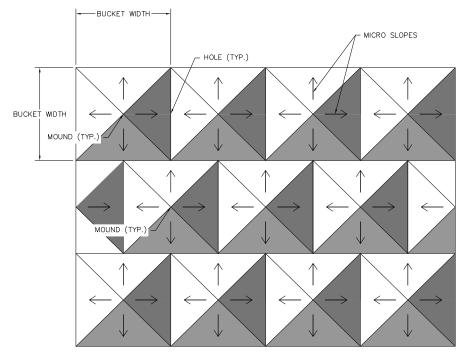
In Montana, this system is dominated by Wyoming big sagebrush (Artemisia tridentata ssp. wyomingensis). Other shrubs present may include basin big sagebrush (Artemisia tridentata ssp. tridentata), silver sagebrush (Artemisia cana), greasewood (Sarcobatus vermiculatus), saltbush (Atriplex species), rubber rabbitbrush (Ericameria nauseosa), green rabbitbrush (Chrysothamnus viscidiflorus), common snowberry (Symphoricarpos albus) and antelope bitterbrush (Purshia tridentata). Overall shrub cover is less than 10 percent.

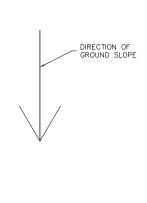
Perennial herbaceous components typically contribute greater than 25% vegetative cover and consist mostly of rhizomatous and bunch—form graminoids, with a diversity of perennial forbs. In Montana, the dominant graminoid in this system is western wheatgrass (Pascopyrum smithii). Other species include Indian ricegrass (Achnatherum hymenoides), blue grama (Bouteloua gracilis), Sandberg's bluegrass (Poa secunda), or bluebunch wheatgrass (Pseudoroegneria spicata). Dryland rhizomatous sedges such as threadleaf sedge (Carex filifolia) and needleleaf sedge (Carex duriuscula) are very common and important in the eastern distribution of this system in Montana and Wyoming.

Common forbs include Hood's phlox (Phlox hoodii), sandwort (Arenaria species), prickly pear (Opuntia species), scarlet globemallow (Sphaeralcea coccinea), purple prairie clover (Dalea purpurea), gayfeather (Liatris punctata), and milkvetch (Astragalus species). Within this system, cheatgrass (Bromus tectorum), Japanese brome (Bromus japonicus) and other invasive weeds can be abundant where there is frequent disturbance.

INFORMATION CITATION:

Big Sagebrush Steppe —Inter-Mountain Basins Big Sagebrush Steppe. Montana Field Guide. Montana Natural Heritage Program Retrieved on August 1, 2017, from http://FieldGuide.mt.gov/displayES_Detail.aspx?ES=5454





TREATMENT NOTES:

CONSTRUCTION OF A ROUGH AND LOOSE SURFACE INVOLVES AN EXCAVATOR AND A SIMPLE PATTERN TO CREATE A ROUGH SURFACE OF MOUNDS AND HOLES. THE EXCAVATOR DIGS A BUCKET OF SOIL THEN PLACES THE SOIL TO THE LEFT OF THE HOLE JUST OPENED, HALF A BUCKET WIDTH FROM THE HOLE SO IT IS HALF IN AND HALF OUT OF THE HOLE. A SECOND HOLE IS THEN EXCAVATED HALF A BUCKET WIDTH TO THE RIGHT OF THE FIRST HOLE. MATERIAL FROM THIS HOLE IS THEN PLACED BETWEEN THE FIRST AND SECOND HOLES, A HIRD HOLE IS NOW OPENED HALF A BUCKET WIDTH TO THE RIGHT OF THE SECOND HOLE, WITH THE EXCAVATED SOIL BEING PLACED BETWEEN THE SECOND AND THIRD HOLES. CARE SHOULD BE TAKEN WHEN EXCAVATING THE HOLES TO SHATTER THE MATERIAL BETWEEN THE HOLES AS DIGGING PROGRESSES. THE PROCESS OF MAKING HOLES AND DUMPING SOIL IS CONTINUED UNTIL THE REASONABLE OPERATING SWING OF THE EXCAVATOR IS REACHED. THE EXCAVATOR THEN BACKS UP THE WIDTH OF THE HOLE AND REPEATS THE PROCESS, BEING SURE TO LINE UP THE HOLES IN THE NEW ROW WITH THE SPACE BETWEEN THE HOLES (MOUNDS) ON THE PREVIOUS ROW.

ONCE AREA IS ROUGH AND LOOSE, SEVERAL OPTIONS FOR ADDITIONAL TREATMENTS ARE AVAILABLE:

- 1. WOODY RESIDUE CAN BE SPREAD OVER THE SURFACE TO PROVIDE ADDITIONAL EROSION PROTECTION, NUTRIENTS, AND SHADING FOR PLANT GROWTH. METHODS FOR WOODY RESIDUE TREATMENTS ARE LOPPING AND SCATTERING, CHIPPING, CRUSHING, AND SHREDDING. THE MINIMUM TREATMENT PER NRCS IS THAT RESIDUE (SLASH) WILL NOT EXCEED 18 INCHES IN HEIGHT IN TREATMENT AREA. ALL SLASH OVER 3 INCHES IN DIAMETER WILL BE CUT INTO 3-5 FOOT LENGTHS. DO NOT OVERLY COVER AREAS WITH RESIDUE AS TO COVER MORE THAN 60% OF THE GROUND. (SEE NRCS SPECIFICATION MT384-1 FOR ADDITIONAL INFORMATION)
- 2. SEED AREA WITH A NATIVE PLANT MIX. ADDITIONAL PLANTINGS OF LOCAL TREES, SHRUBS AND BUSHES CAN BE TRANSPLANTED TO AREA TO SPEED STABILIZATION. IF PLANTINGS OR LIVE PLANTS ARE TO BE USED, PLACE THEM IN THE HOLES CREATED BY THE ROUGH AND LOOSE TECHNIQUE. SEE THE VEGETATION DESCRIPTION AND SPECIFIC SPECIES NAMES FOR THIS ECOSYSTEM (THIS SHEET).



REVISIONS	DRAWN BY	DATE			
			PROJECT ENGINEER: DSC	DRAWN BY: ASG	
			DESIGNED BY: ASG	REVIEWED BY: DSC, BDA	1
	REVISIONS	REVISIONS DRAWN BY	REVISIONS DRAWN BY DATE	PROJECT ENGINEER: DSC	PROJECT ENGINEER: DSC DRAWN BY: ASG

ROSEBUD EXISTING LANDFILL
DETAILS
ROSEBUD COUNTY, MT

32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770 www.alliedengineering.com

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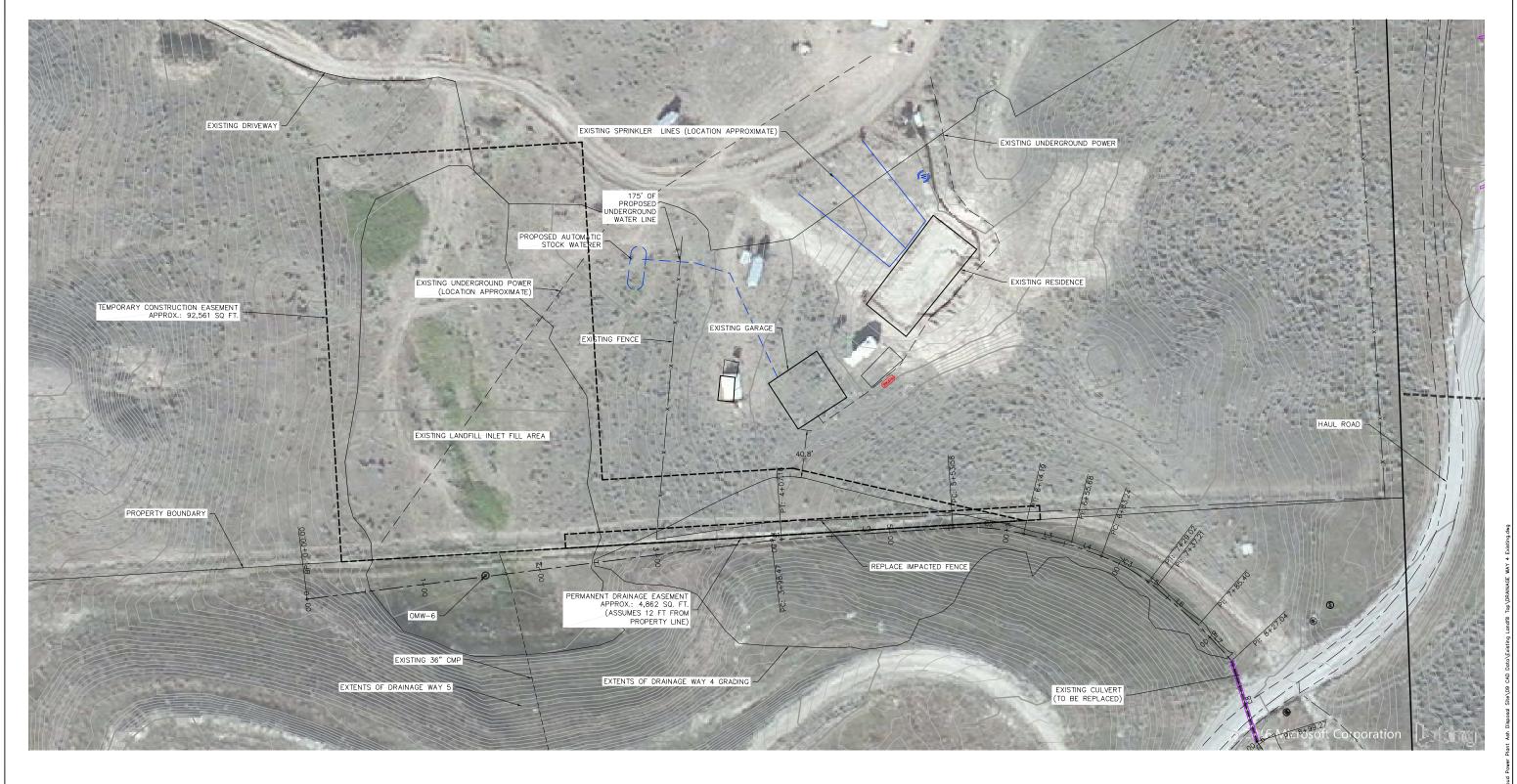


-)	PROJECT #:
	DATE: 09/14
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MEERING #	

SHEET C3-3

DETAILS





SCALE (FEET)	
SCALE (FEET)	
SCALE (FEET)	
PROJECT ENGINEER: DSC DRAWN BY: ASG	
TROUGHT ENGINEERS, 550 BICAMA BT. ASS	
DESIGNED BY: ASG REVIEWED BY: DSC, BDA	

ROSEBUD EXISTING LANDFILL EASEMENTS - DRAINAGE WAY 4 ROSEBUD COUNTY, MT

32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770 www.alliedengineering.com

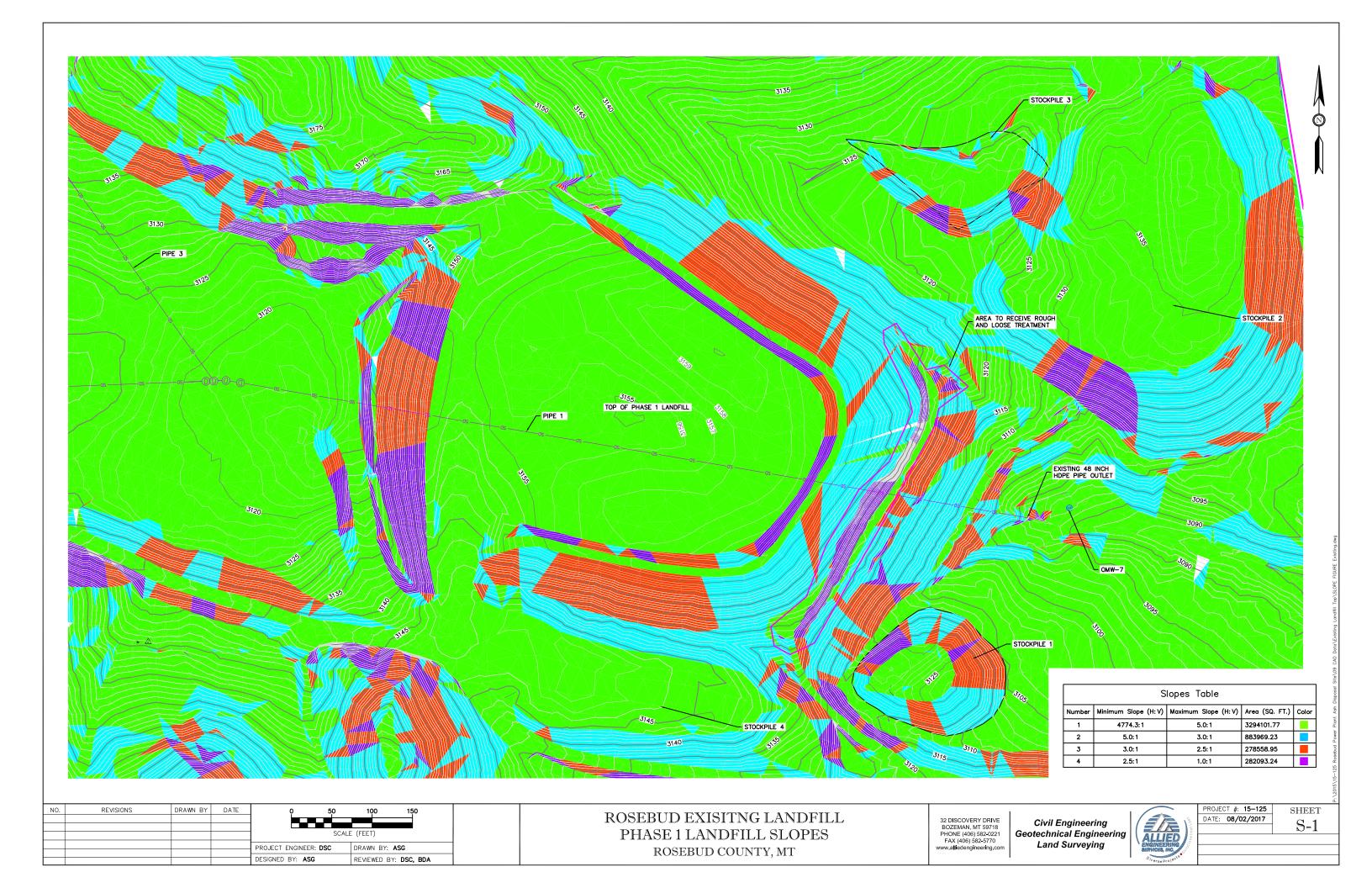
Civil Engineering Geotechnical Engineering Land Surveying

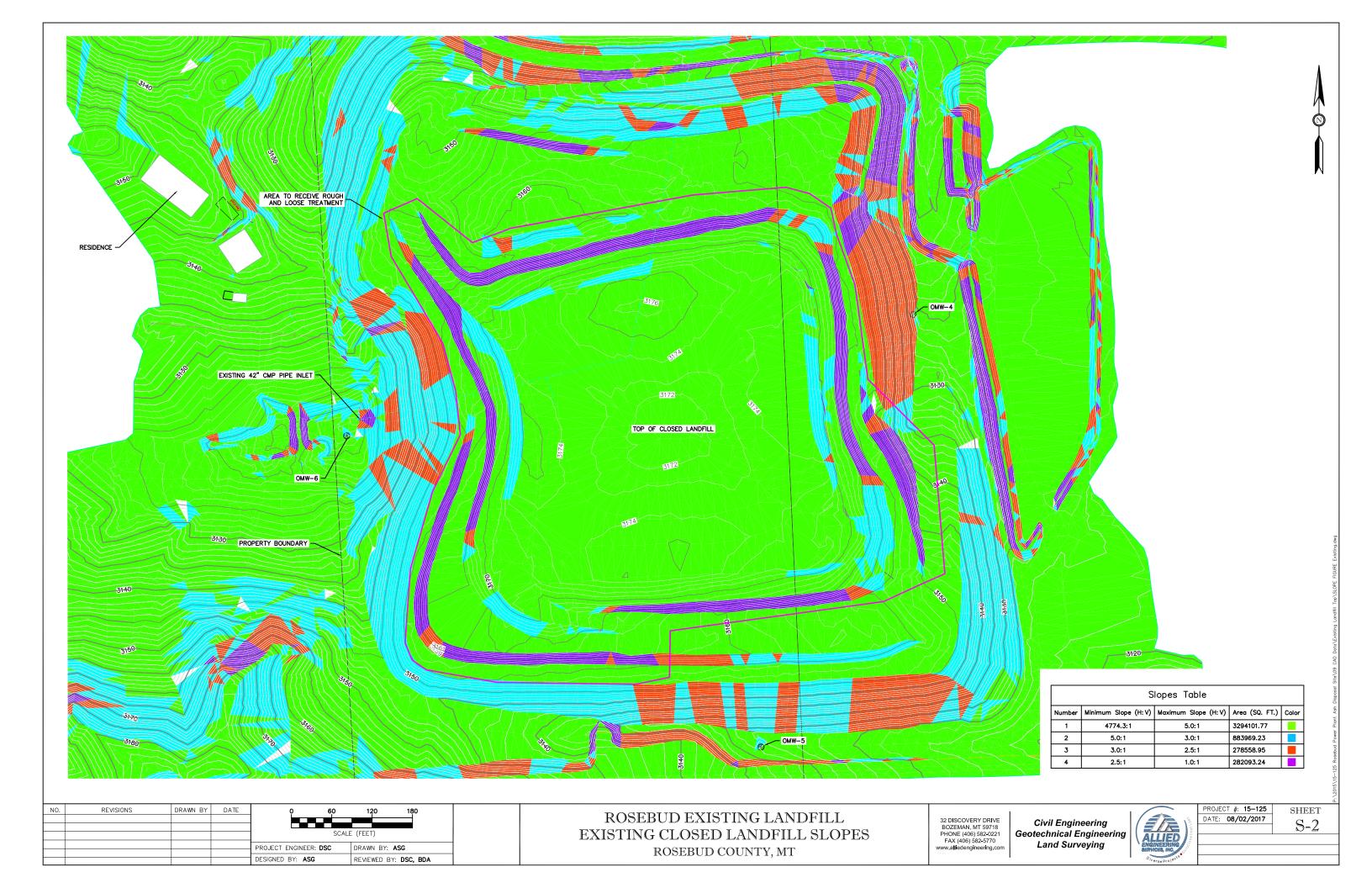


PROJECT #: 15-125
DATE: 08/01/2017

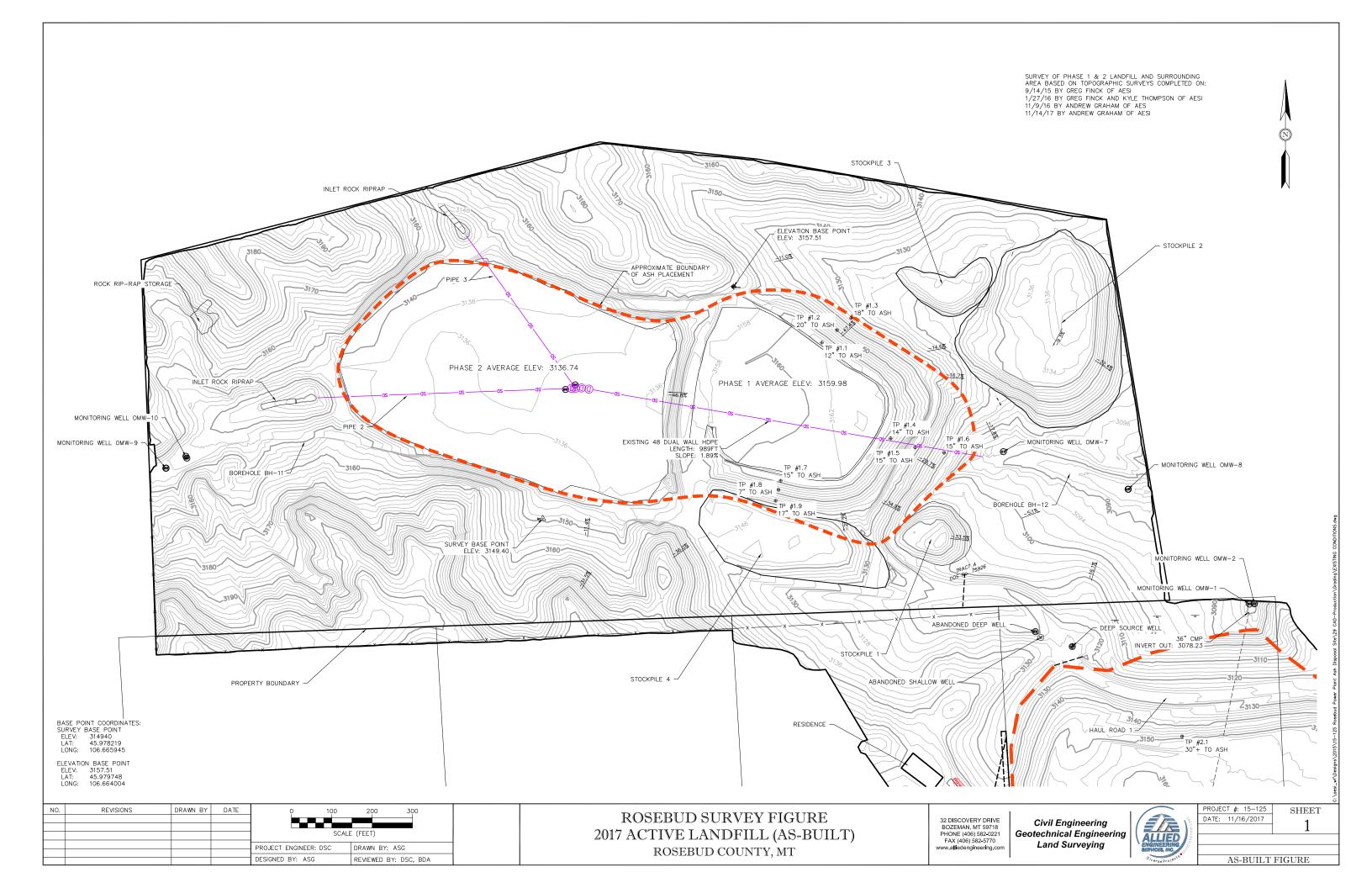
sнеет E-1

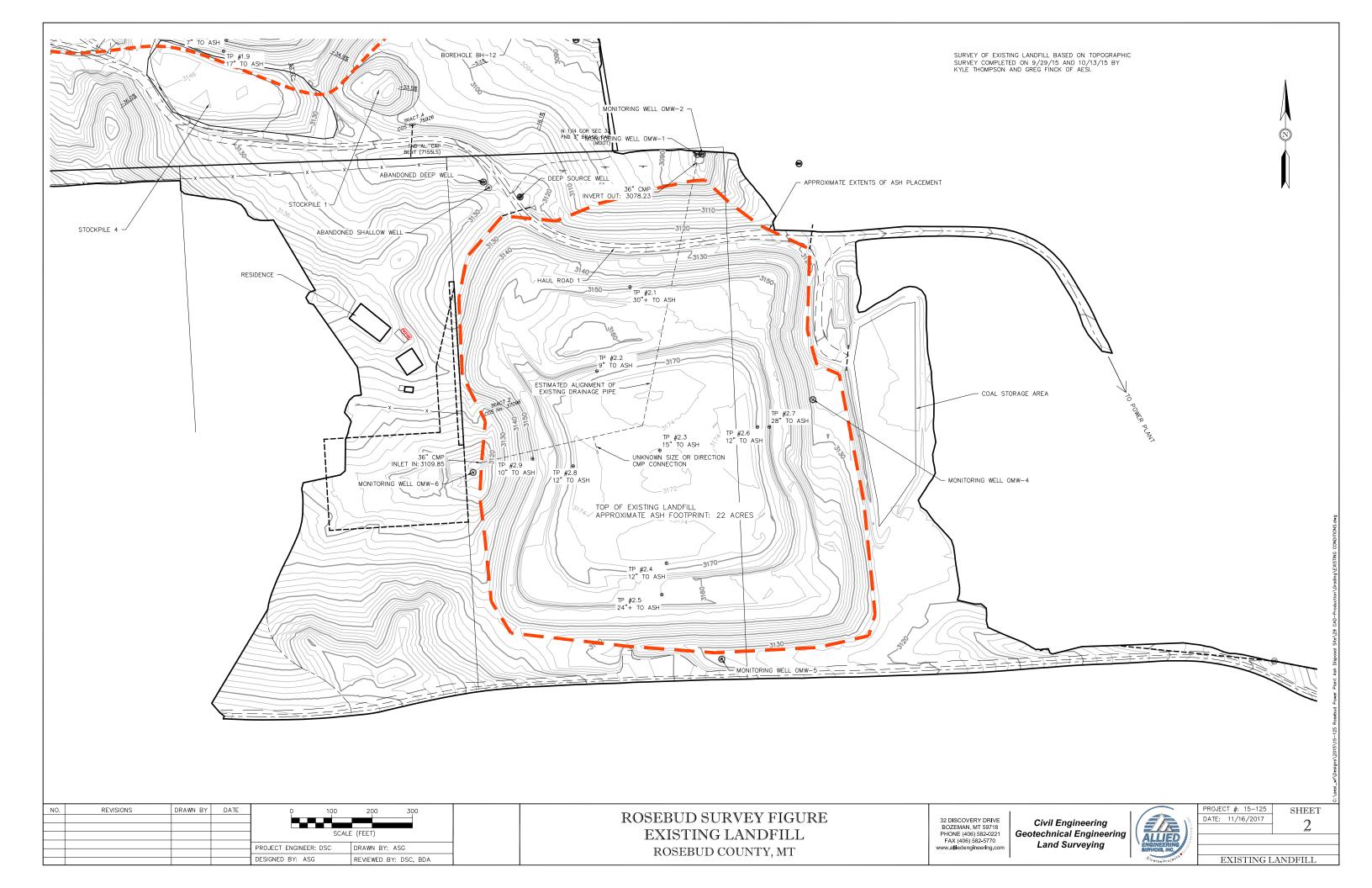
EASEMENTS - DW 4





Appendix B: Existing Conditions Survey Figure & Soil Cover Inspection Sheets





Appendix C: Rosebud Power Plant Inspection Reports – Dated 1/13/17 thru 12/29/17

ROSEBUD POWER PLANT CCR LANDFILL INSPECTION REPORT

OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Rosebud Operating Services INC. INSPECTOR: Ken M: For land DATE & TIME INSPECTED: 221 // 13/17 WEATHER (temperature, wind, precipitation): 24° Clear Surny FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2-3 ft below bean
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10 ft/estimute
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? : If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berm (Exterior, Top, Interior, Benches) & Pipe

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		-	
(3) Any cracking?		_	
(4) Any traffic or animal damage?		1	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	V		
(6) Interior Side Slopes (1.5H:1V design)	L		
(7) Height of Berm above Ash Surface (ft)	V		

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
(10) Any exposed ash on exterior slope?		V	
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?		V	/
(13) Pipe Condition?	/	May	
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?		V	
(16) Any erosion/undermining of pipe at inlet or outlet?		/	
(17) Other?			

(17) Other?					
B. Amount and Type of Vegetation o	the Embankm	ent & Bench	Areas		and the second
Snow Covers	l				
C. Areas without Vegetation due to e	rosion (describe	location an	d size of area)		
None - Snow C	vered				
D. Areas without Vegetation due to I	ack of topsoil co	ver (describ	e location and	size of area)	
None S	ion Cover	nd .			

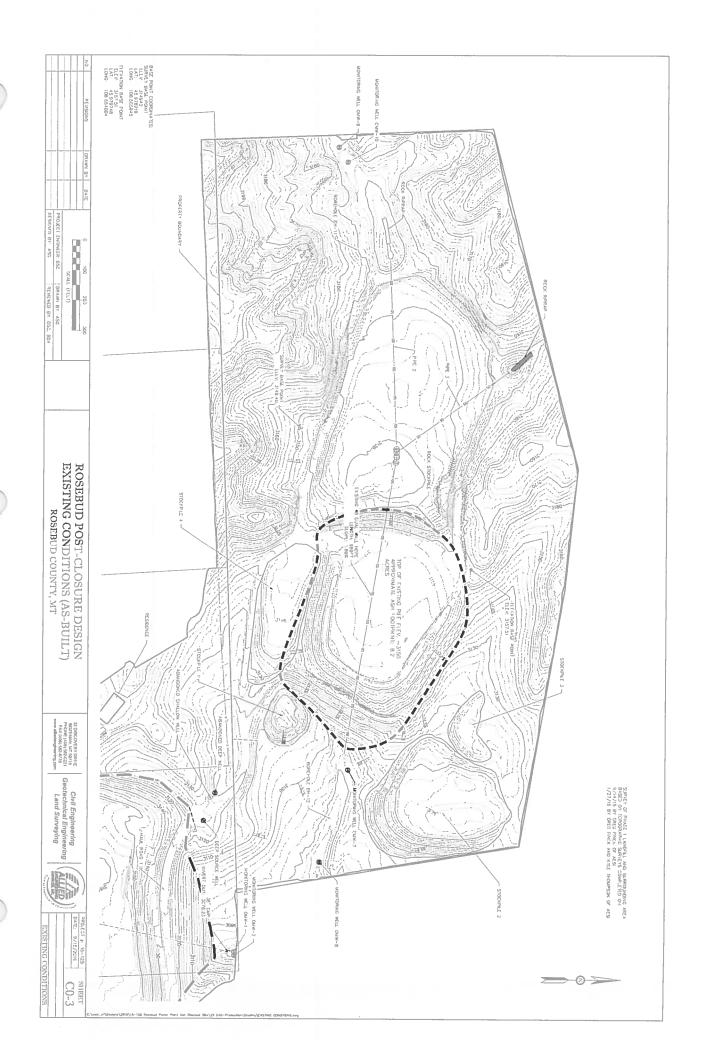
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

No

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed Mc // 13/17

Signature and Date:



ROSEBUD POWER PLANT CCR LANDFILL INSPECTION REPORT

today

OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Roseful Operating Services, INC
INSPECTOR: Joel Commercinary
DATE & TIME INSPECTED: Olohors 1/20/17 WEATHER (temperature, wind, precipitation): 0 40 48 95 5/19ht West Wind, Rain earlier
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2-3ft below berm - No Activity in phase 1
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,
take nictures (include date stamp), and indicate location of nictures on the inspection man.

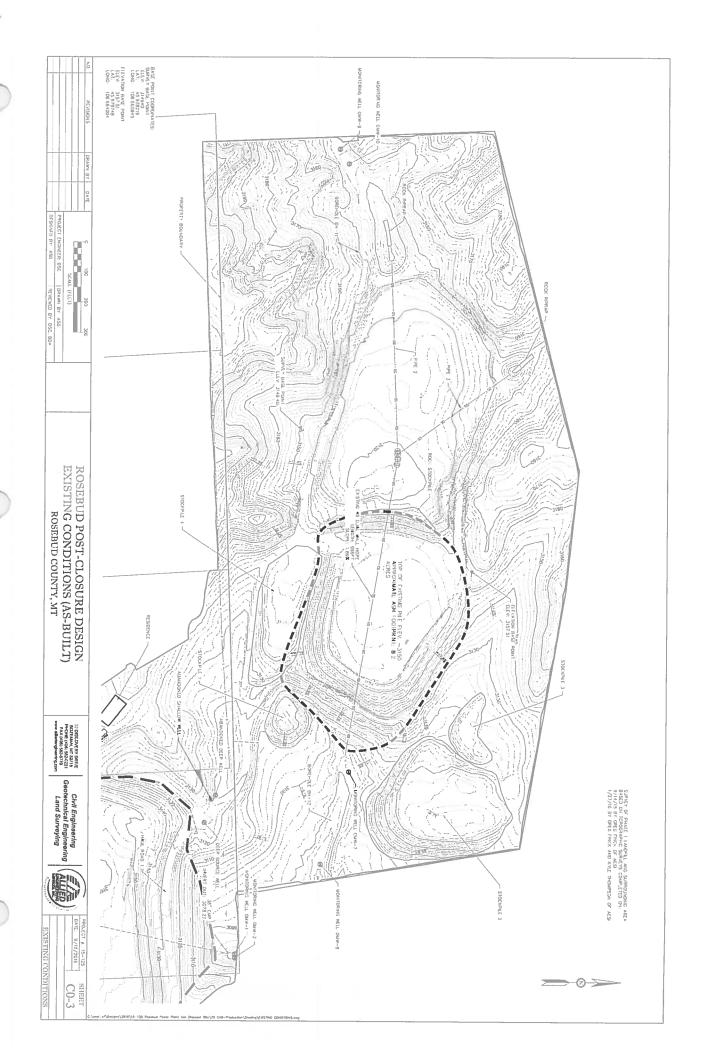
1. EMBANKMENT & PIPE

A. Berm (Exterior, Top, Interior, Benches) & Pipe

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		V	
(3) Any cracking?		V	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		
(6) Interior Side Slopes (1.5H:1V design)			
(7) Height of Berm above Ash Surface (ft)	/		Good-physeld I

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?		V	
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?			Snowmelt in all areas
(13) Pipe Condition?			
(14) Water flowing from pipe?		/	None at Inlet Visible
(15) Any pooling or poding at pipe inlet or outlet?		V	Inlet of Other Snow lovered
(16) Any erosion/undermining of pipe at inlet or outlet?			n 1 11 11 11
(17) Other?			

			None at Inlet Visible
(14) Water flowing from pipe?		V	None at Inlet Visible None at Otlet
(15) Any pooling or poding at pipe inlet or outlet?		V	Inlet & Outlet Snow lovered
(16) Any erosion/undermining of pipe at inlet or outlet?		V	n 11 11 11
(17) Other?			
B. Amount and Type of Vegetation on the E	Embankmen	t & Bench	Areas
Snow Covered bone is goots due to melting			
C. Areas without Vegetation due to erosion (describe location and size of area)			
No - Snow molting - no enorth			
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)			
N_{\circ}			
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?			
 GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed) 			
No Now Erosson Notice	due	to s	now melt
This inspection was performed by:			



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Coschad Operating Services / NC. INSPECTOR: Lea ME Vay Cond DATE & TIME INSPECTED: 730 1/27/17 WEATHER (temperature, wind, precipitation): 35° / 0-15 mph - Claw Suy FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2-3 ft pulow burn No activity in Phase I
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
8-10' below been
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

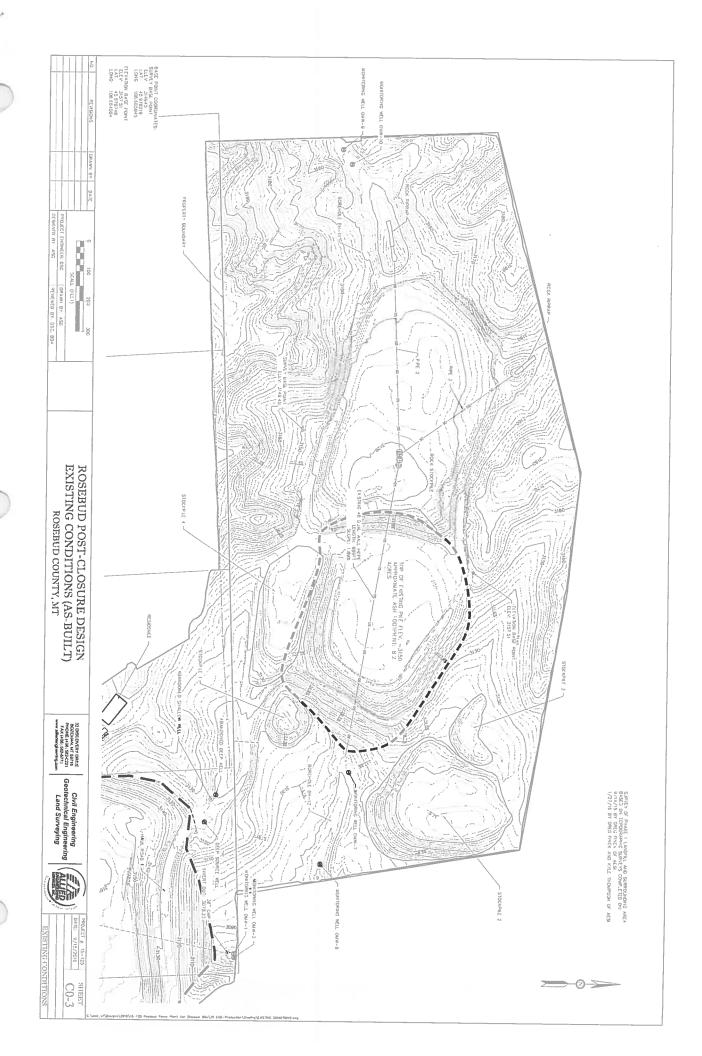
ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		1	
(2) Any misalignments?		-	
(3) Any cracking?		1	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		
(6) Interior Side Slopes (1.5H:1V design)	/		
(7) Height of Berm above Ash Surface (ft)	/		Good Both Phase I + II

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?		-	
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?			Snow melting in areas
(13) Pipe Condition?	/		o Kay
(14) Water flowing from pipe?		v	Still Grozen fulet & outlet
(15) Any pooling or poding at pipe inlet or outlet?		V	Still Grongen fulet & put let
(16) Any erosion/undermining of pipe at inlet or outlet?		CV	10 11 11
(17) Other?			

(16) Any erosion/undermining of pipe at inlet or outlet?		CV		<i>!</i>		<i>"</i>
(17) Other?						
B. Amount and Type of Vegetation on the E	Embankme	nt & Bench	Areas			
Show Covered						
C. Areas without Vegetation due to erosion	(describe	location an	d size of a	area)		
No- Snow Grend			All and			
D. Areas without Vegetation due to lack of	topsoil cov	er (describ	e location	and size	of area)	
No						
2. Any appearances of an actual or potentia	structura	l weakness	of the CO	CR unit, in	addition to	o any existing

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

No Evosion from Snow melt at this frie.



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Rosebud Operating Services Inc.
INSPECTOR: KerMi-Forland
DATE & TIME INSPECTED: 2/5/17 156
WEATHER (temperature, wind, precipitation): Clear 37. F
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2 - 3 ft be low burn
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
8-10' below bern Adding Daily
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? No:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map
take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

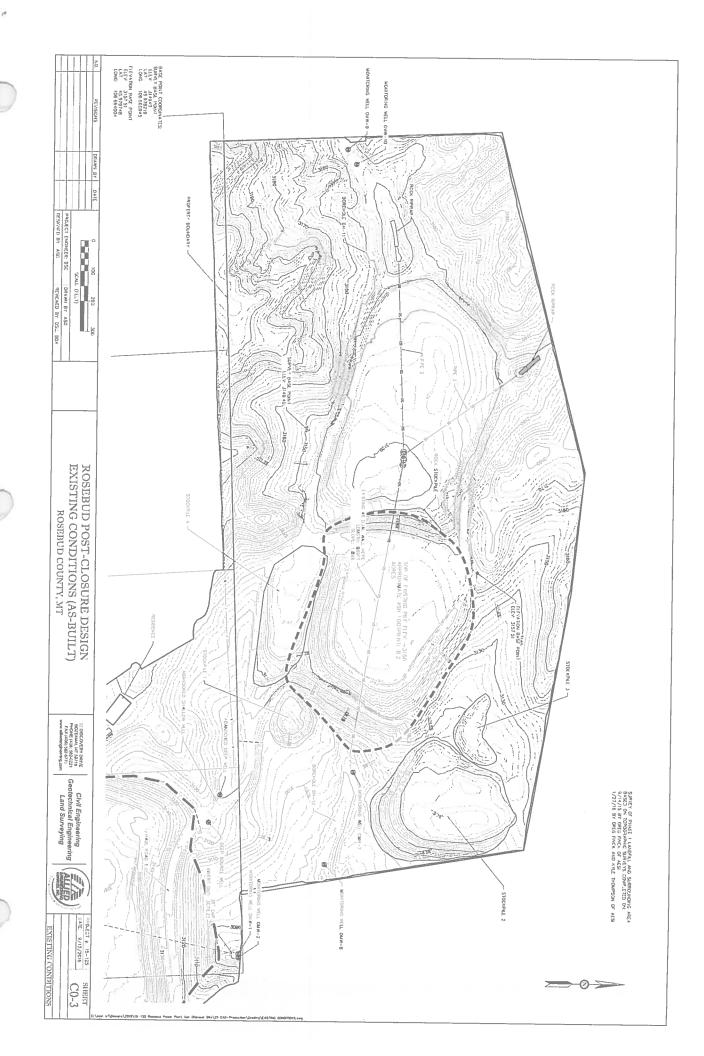
ra berni (exterior, rop) interior, benefico,	r i		The state of the s
ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		~	
(2) Any misalignments?		/	
(3) Any cracking?		~	
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		
(6) Interior Side Slopes (1.5H:1V design)	_		oKay
(7) Height of Berm above Ash Surface (ft)	-		Good Both Phases I+II

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?		V	
(10) Any exposed ash on exterior slope?		~	
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?		V	Snow Covered Okay
(13) Pipe Condition?			okan
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?		V	
(16) Any erosion/undermining of pipe at inlet or outlet?		0	
(17) Other?			

B. Amount and Type of Vegetation on the Embankment & Bench Areas	
Snow Covered	
C. Areas without Vegetation due to erosion (describe location and size of area)	
ω	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
No	

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS
(Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: 12/5/17 Signature and Date



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: INSPECTOR: DATE & TIME INSPECTED: 2-13-17 WEATHER (temperature, wind, precipitation): 24°6-1/W Wind-10-15 wph FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2 -3 feet below bern
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement): 8 to 10' below west berm - Adding dark/
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

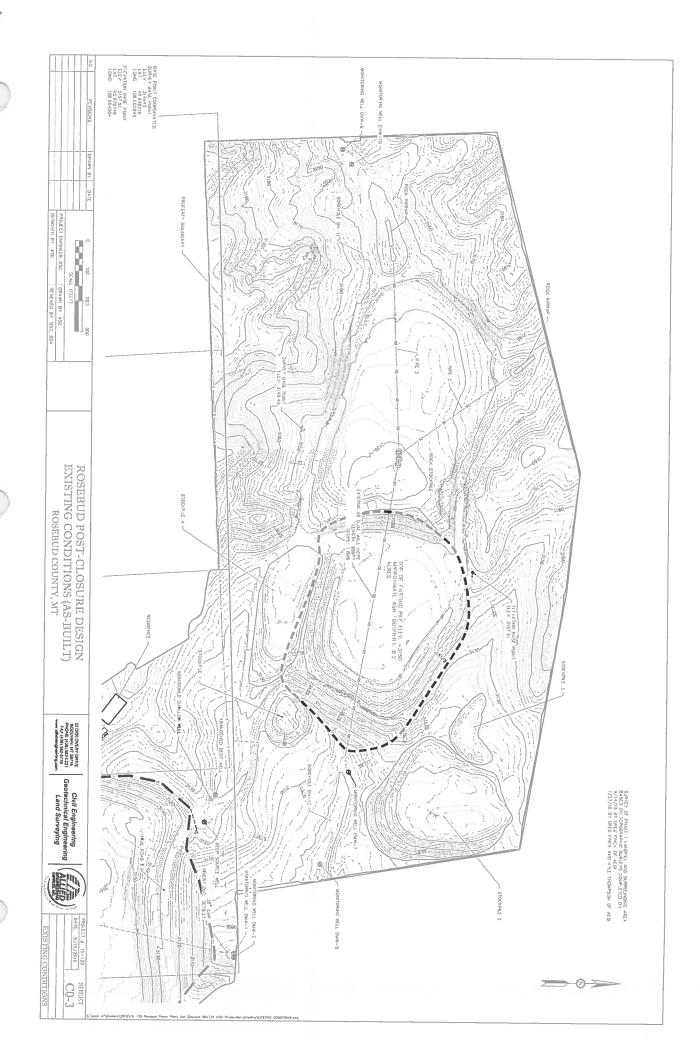
A. Berni (Exterior, Top, litterior, Benches)	Ī		
ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?			
(3) Any cracking?			
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)	V		
(7) Height of Berm above Ash Surface (ft)			2-3' phage I- phose I Good

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	1		
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?			Through Pipe - Froze again Now
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?			Cood
(14) Water flowing from pipe?		No	- Frozan Now
(15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at inlet or outlet?		V	
(17) Other?			

B. Amount and Type of Vegetation on the Embankment & Bench Areas
Partlal Grow Cover - Melting this week
C. Areas without Vegetation due to erosion (describe location and size of area)
No
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)
No

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS
(Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: 3 - 3 - 17 Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR:
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
3'-10' below west bern - Adding daily
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berm (Exterior, Top, Interior, Benches) o	xripe		i a constant
ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		J	
(2) Any misalignments?		V	
(3) Any cracking?			
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)			
(7) Height of Berm above Ash Surface (ft)			2-3' phose I - phase IOK



ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	1		
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or conding?		<i>></i>	
(12) Any visible water/runoff spill points?		>	
(13) Pipe Condition?			OK
14) Water flowing from pipe?			5 7 (
15) Any pooling or poding at pipe inlet routlet?			
16) Any erosion/undermining of pipe at llet or outlet?			
17) Other?			

Most Grow Cone - No major erosion
C. Areas without Vegetation due to erosion (describe location and size of area)
No
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)
16

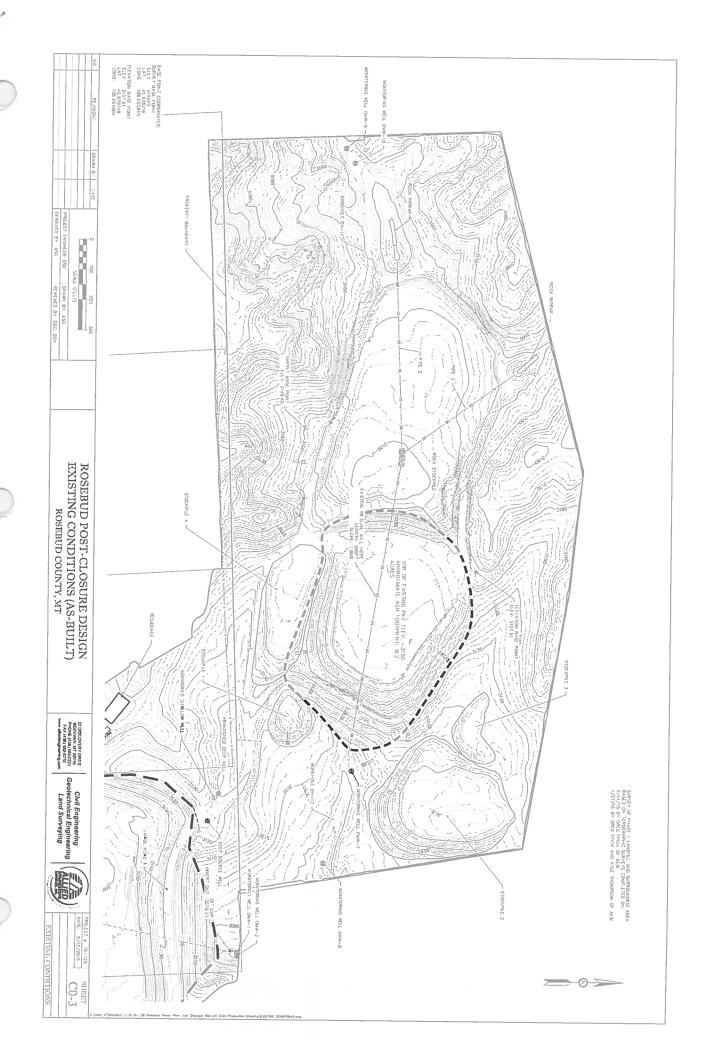
No

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:

2-17-11

__ Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: INSPECTOR: DATE & TIME INSPECTED: WEATHER (temperature, wind, precipitation): FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2 ' 4'
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10' plus
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? No:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		1	
(2) Any misalignments?		V	
(3) Any cracking?		1	
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		
(6) Interior Side Slopes (1.5H:1V design)	V		okay
(7) Height of Berm above Ash Surface (ft)	~		2:4'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	~		
(10) Any exposed ash on exterior slope?		~	
(11) Any visible water pooling or ponding?		V	Frozen ground
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?			good
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?		~	
(16) Any erosion/undermining of pipe at inlet or outlet?		-	
(17) Other?			

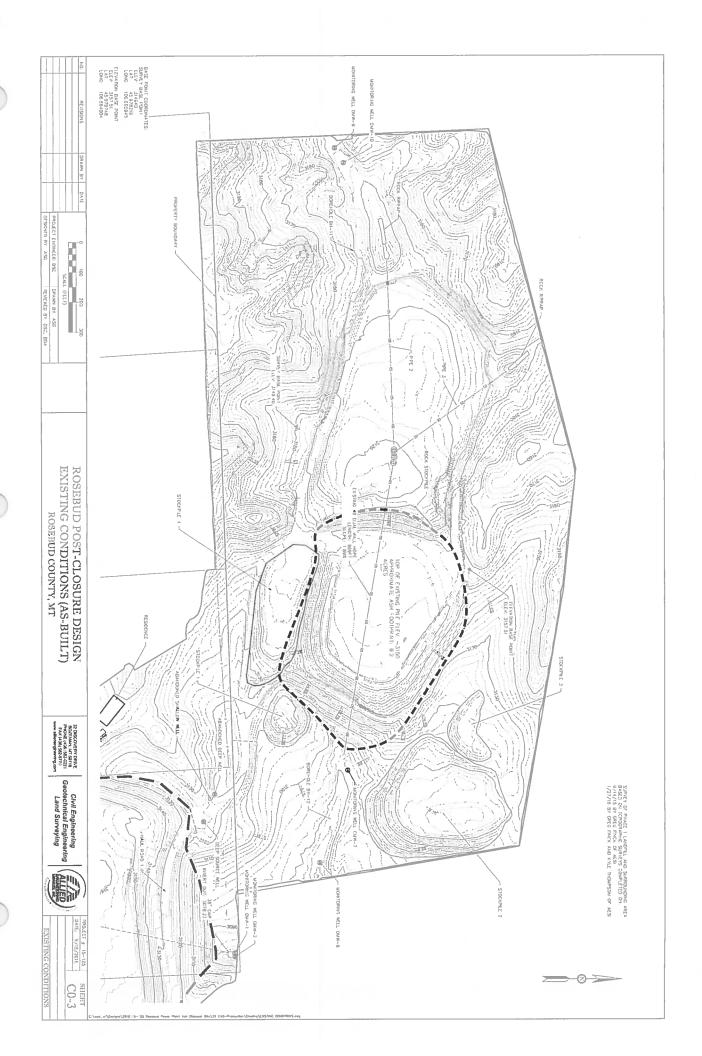
B. Amount and Type of Vegetation on the Embankment & Bench Areas
Snow Covered
C. Areas without Vegetation due to erosion (describe location and size of area)
NO
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)
No

No

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:_

Signature and Date



OWNER: Colstrip Energy Limited Partnership (CELR) OPERATOR: INSPECTOR: DATE & TIME INSPECTED: WEATHER (temperature, wind, precipitation): FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

1. EMBANKMENT & PIPE

A. Derin (Exterior, Top, interior, Dentites) & Tipe					
ITEM	YES	NO	REMARKS/LOCATION		
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V			
(2) Any misalignments?		V			
(3) Any cracking?		/			
(4) Any traffic or animal damage?		V			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	V				
(6) Interior Side Slopes (1.5H:1V design)	/		0 K		
(7) Height of Berm above Ash Surface (ft)	V		0'4'		

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		~	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?]	
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?		~	
(13) Pipe Condition?			Good
(14) Water flowing from pipe?		v	5now
(15) Any pooling or poding at pipe inlet or outlet?		~	
(16) Any erosion/undermining of pipe at inlet or outlet?			
(17) Other?			

inlet or outlet?			
(17) Other?			
B. Amount and Type of Vegetation on the E	mbankment & Ben	ch Areas	
Span Coverce			
C. Areas without Vegetation due to erosion	(describe location	and size of area)	
5 Now Covenec			
D. Areas without Vegetation due to lack of t	topsoil cover (descr	ibe location and size of	area)
SNOW Covered			
2. Any appearances of an actual or potential conditions that are disrupting or have the po			

10

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS

(Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Rosebul Operating Services INC.
INSPECTOR: Ken mi Farland
DATE & TIME INSPECTED: 3/17/17
WEATHER (temperature, wind, precipitation): 40° Scalland Clouds. 0-5 mph wid
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		V	
(3) Any cracking?		V	
(4) Any traffic or animal damage?		~	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	/		
(6) Interior Side Slopes (1.5H:1V design)			
(7) Height of Berm above Ash Surface (ft)	/		

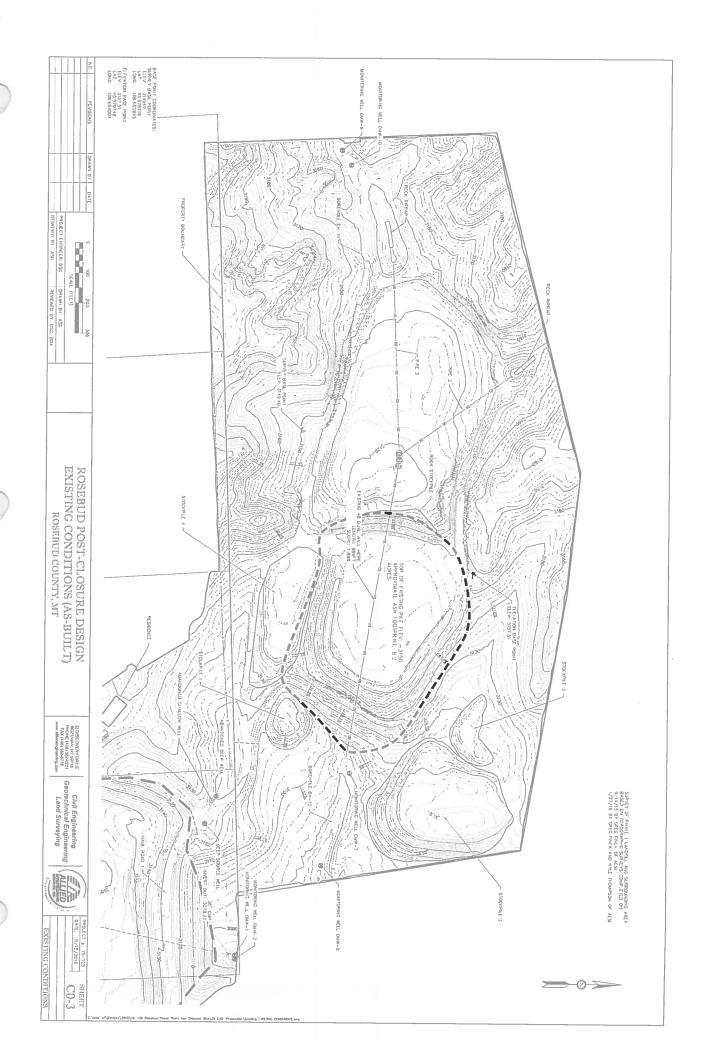
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		~	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	/		o Kay
(10) Any exposed ash on exterior slope?		/	
(11) Any visible water pooling or ponding?		~	
(12) Any visible water/runoff spill points?		_	
(13) Pipe Condition?	F2	~	s Kay
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?		/	
(16) Any erosion/undermining of pipe at inlet or outlet?		1	
(17) Other?			

(1/) Other?
B. Amount and Type of Vegetation on the Embankment & Bench Areas
No new growth yet.
C. Areas without Vegetation due to erosion (describe location and size of area)
Mo
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)
No
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit? Swows melting - wet

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS

(Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Rose and operating Services (ne.
INSPECTOR: Ku M& Futand DATE & TIME INSPECTED: 3/25/17 1285 pm
WEATHER (temperature, wind, precipitation): 20 No wind
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map
take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berni (Exterior, Top, Interior, Beriches) & Fipe						
ITEM	YES	NO	REMARKS/LOCATION			
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		~				
(2) Any misalignments?		V	4			
(3) Any cracking?		V	Bladed heaves down of watered			
(4) Any traffic or animal damage?		<u>`</u>				
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	V					
(6) Interior Side Slopes (1.5H:1V design)	~					
(7) Height of Berm above Ash Surface (ft)	1					



		1	1
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		ν	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			okay
(10) Any exposed ash on exterior slope?		/	
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?			okay
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at inlet or outlet?		V	
(17) Other?			

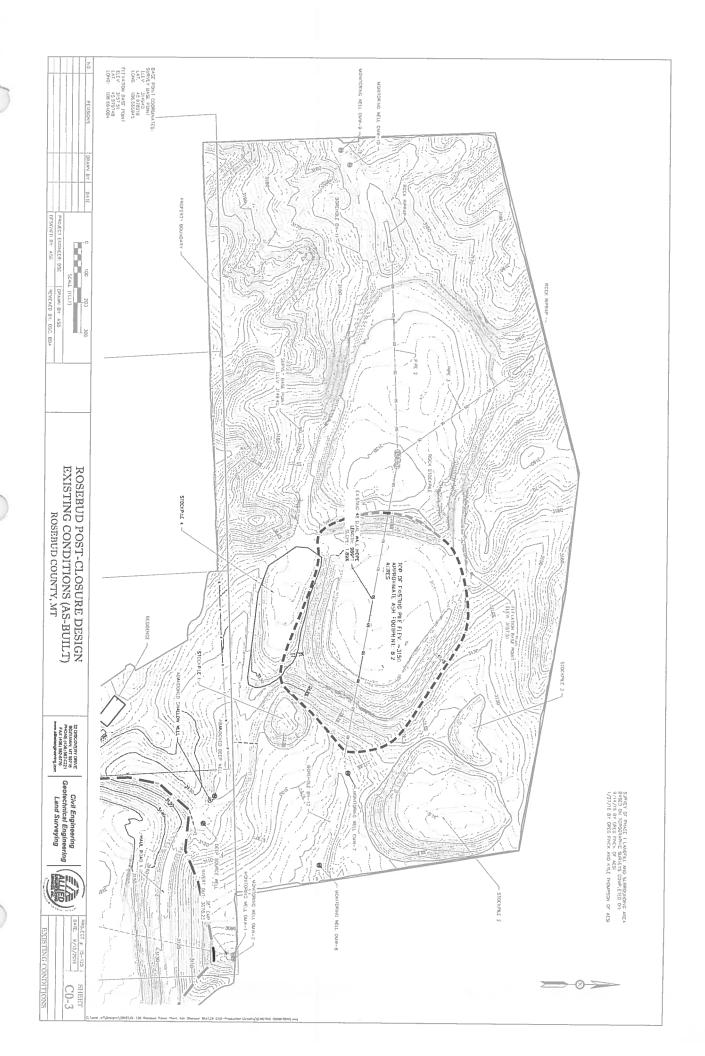
met of outlet?						
(17) Other?						
B. Amount and Type of Vegetation on the	Embankment	t & Bench	Areas			
Seeded last Fell - Son	ne grass	growin	g on Beri	ns d Stock	Piles.	
C. Areas without Vegetation due to erosio	n (describe lo	cation an	d size of are	a)		
No						
D. Areas without Vegetation due to lack of	topsoil cover	r (describe	e location a	nd size of are	ea) 🕯	
NO						
2. Any appearances of an actual or potentia	al structural v	weakness	of the CCR	unit, in addi	tion to any exis	ting

No

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

good

This inspection was performed by: Ken M5/25/17 Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Joseph Operating Services INSPECTOR: John Bobles
DATE 0 TIME INICIPECTED: $2(10)$ $2-71-12$
WEATHER (temperature, wind, precipitation): 50 5-10 Mm Nul
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2 - 4
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-15 dect visual
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map
take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		V	
(3) Any cracking?		V	
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)			
(7) Height of Berm above Ash Surface (ft)	V		good

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?			good
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?		\checkmark	
(16) Any erosion/undermining of pipe at inlet or outlet?			
(17) Other?			

(17) Other?	200			
B. Amount and Type	of Vegetation on t	he Embankment &	Bench Areas	
	Spoty	V egitation	from	lost Soll seeding
C. Areas without Vege			2	
	NO			
D. Areas without Vege	etation due to lacl	c of topsoil cover (d	escribe locatio	on and size of area)
	NO			

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: Albha 3-31-17
Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: INSPECTOR: DATE & TIME INSPECTED: WEATHER (temperature, wind, precipitation): FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-90
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		~	
(3) Any cracking?		V	
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	V		
(6) Interior Side Slopes (1.5H:1V design)	1		
(7) Height of Berm above Ash Surface (ft)	\checkmark		



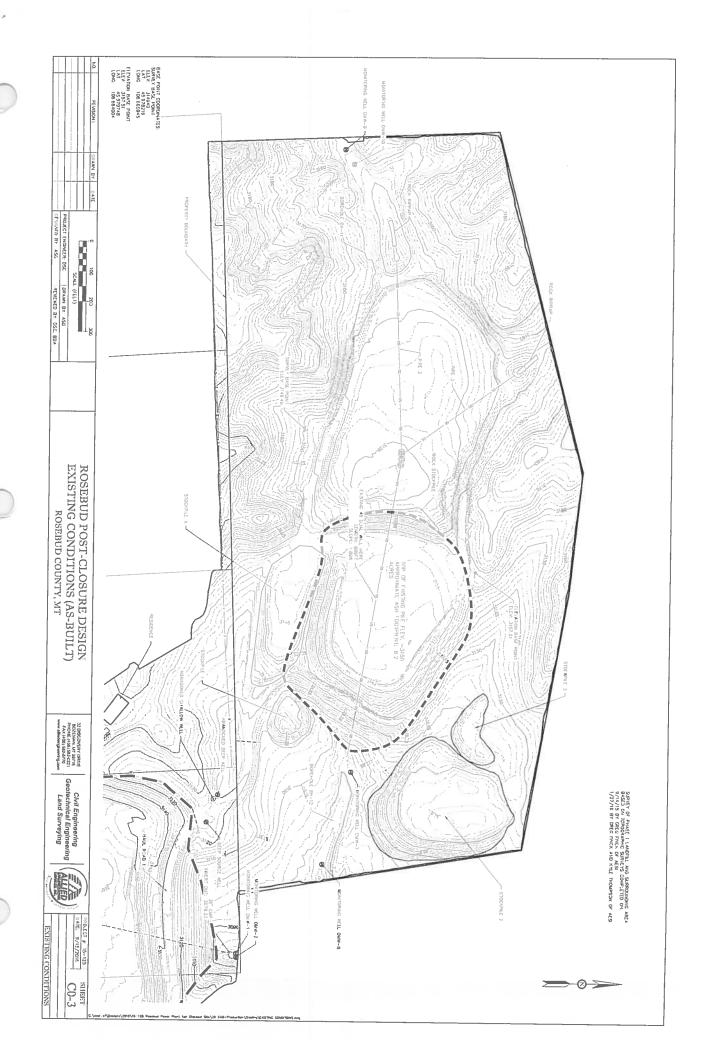
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		/	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		ok
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or conding?		V	
(12) Any visible water/runoff spill points?		V	
13) Pipe Condition?		Z	EDER
14) Water flowing from pipe?		/	
15) Any pooling or poding at pipe inlet routlet?		V	
16) Any erosion/undermining of pipe at nlet or outlet?			
.7) Other?			

B. Amount and Type of Vegetation on the Embankment & Bench Areas
Seeded East Fell
C. Areas without Vegetation due to erosion (describe location and size of area)
No
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)
No

KD

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if pecessary, include pictures as needed)

This inspection was performed by:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: 103 T
INSPECTOR: Joel Timmerman
DATE & TIME INSPECTED: 4/17/17 0903 brs WEATHER (temperature, wind, precipitation): 45°F, Cloudy, 13 MAH ESE wind - No Ra.
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2-3 ft Selow top of Sermy - visval
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-15 ft below top of berms - visual
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		1	
(3) Any cracking?			
(4) Any traffic or animal damage?		1	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)			
(7) Height of Berm above Ash Surface (ft)	V		2-34



ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
(10) Any exposed ash on exterior slope?		/	
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?		\checkmark	
(13) Pipe Condition?	1		
(14) Water flowing from pipe?		/	
(15) Any pooling or poding at pipe inlet or outlet?		/	
(16) Any erosion/undermining of pipe at nlet or outlet?			
17) Other?		_	
. Amount and Type of Vegetation on the Ei	mbankmen	t & Bench	Areas
Vegetation starting -			
. Areas without Vegetation due to erosion	ldocariba la	antion on	

C. Areas without Vegetation due to erosion (describe location and size of area)	
$N_{\mathfrak{F}}$	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
N_0	

No

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:

4

4-17-17
Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Cose and Operating Services for. INSPECTOR: Ken m: For land DATE & TIME INSPECTED: 4/21/17 /50 WEATHER (temperature, wind, precipitation): 56°F Partly Sunny Wind 3 mph. FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2-3' below top berms
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement): 10'-15' below top beems
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		-	
(2) Any misalignments?		/	
(3) Any cracking?		/	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	/		
(6) Interior Side Slopes (1.5H:1V design)	1		
(7) Height of Berm above Ash Surface (ft)	J		



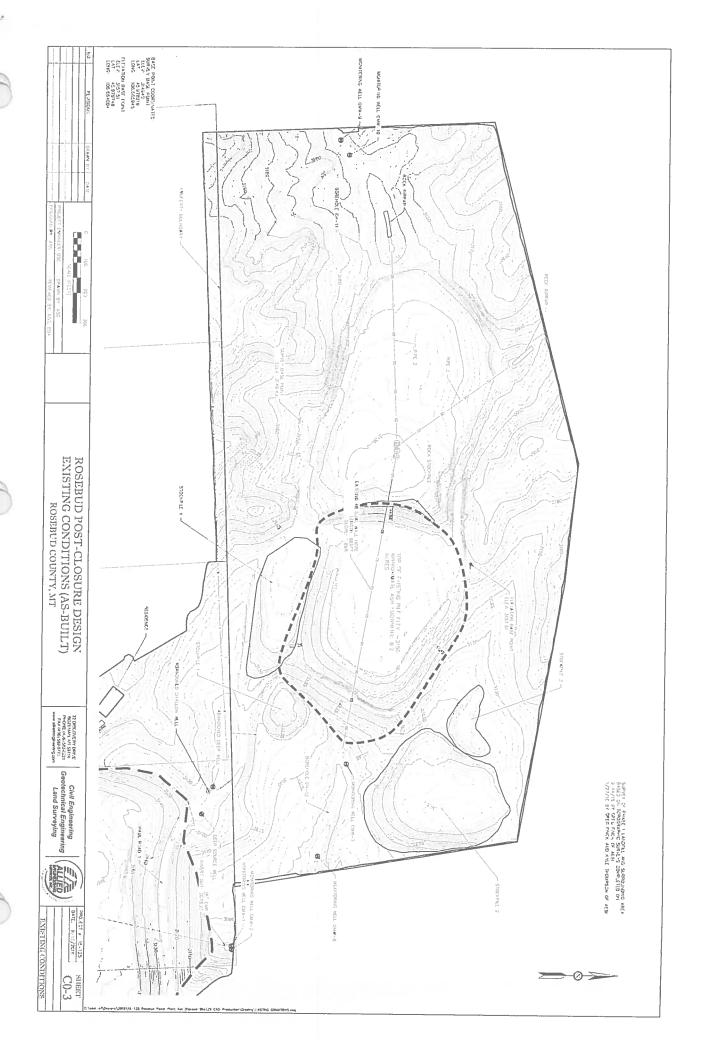
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
10) Any exposed ash on exterior slope?		-	
11) Any visible water pooling or onding?		-	
.2) Any visible water/runoff spill pints?		/	
3) Pipe Condition?			
4) Water flowing from pipe?			
15) Any pooling or poding at pipe inlet outlet?		/	
6) Any erosion/undermining of pipe at et or outlet?		/	
7) Other?			

No

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:_

Signature and Date



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: INSPECTOR: DATE & TIME INSPECTED: WEATHER (temperature, wind, precipitation): FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2 to 3' Solow top of Sorms
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement): 10' to 16' below top of berms
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?			
(3) Any cracking?			
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	v		
(6) Interior Side Slopes (1.5H:1V design)	/		
(7) Height of Berm above Ash Surface (ft)	./		OK - 2'to 3' above



ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		/	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?		/	
(12) Any visible water/runoff spill points?		V	
(13) Pipe Condition?			
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?	,	/	
(16) Any erosion/undermining of pipe at inlet or outlet?			
(17) Other?			
B. Amount and Type of Vegetation on the B	Embankmer	nt & Bench	Areas
vegetation is Spirse	on mx	in ber	m; but still coming in
C. Areas without Vegetation due to erosion			
No			
D. Areas without Vegetation due to lack of	topsoil cov	er (describ	e location and size of area)
1/-			

2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS

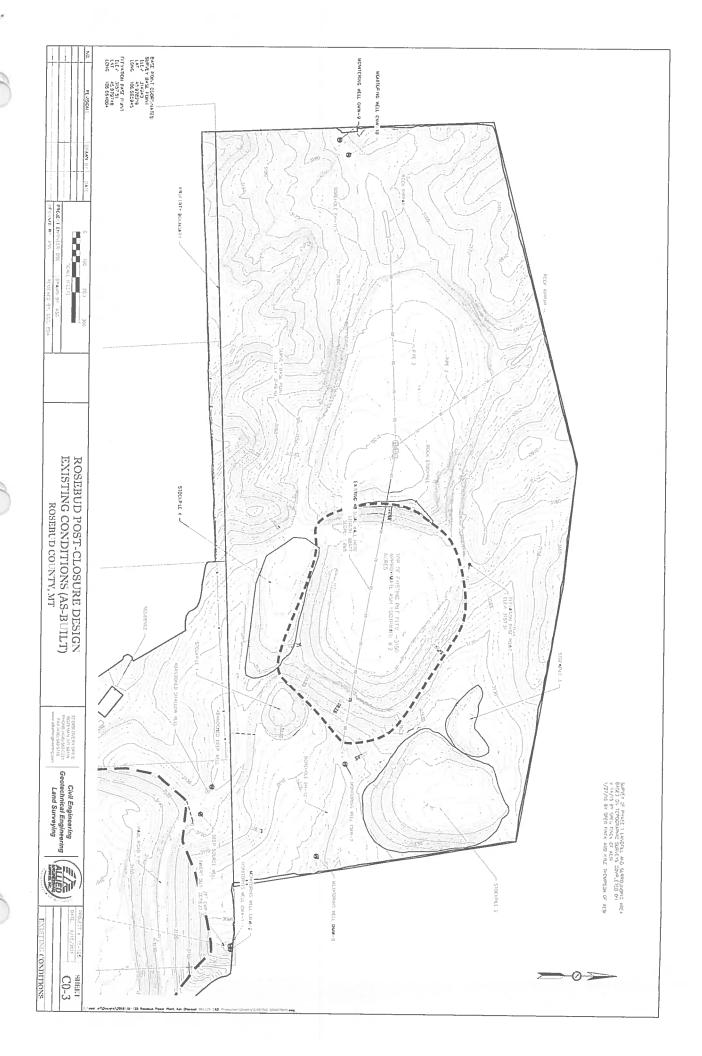
(Use additional pages, if necessary, include pictures as needed)

having phase I copped with water Soup" Sol how on expected ash Surface

This inspection was performed by:

This inspection was performed by:

Signature and Date: 5-12-17



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: INSPECTOR: Ken Maraland DATE & TIME INSPECTED: 843 mm \$\frac{9}{19}/17\$ 36° WEATHER (temperature, wind, precipitation): FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2'-3' Below Burn
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10'-15' Below top of Berm
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		v	
(2) Any misalignments?			
(3) Any cracking?		/	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	/		
(6) Interior Side Slopes (1.5H:1V design)	-		
(7) Height of Berm above Ash Surface (ft)	V		6 Kay



1		
2		
	_	

		1	
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		_	-
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	~		
(10) Any exposed ash on exterior slope?		-	
(11) Any visible water pooling or ponding?		-	
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?	v		
(14) Water flowing from pipe?		v	
(15) Any pooling or poding at pipe inlet or outlet?		L	
(16) Any erosion/undermining of pipe at inlet or outlet?		U	
(17) Other?		/	

(17) Cities.	
B. Amount and Type of Vegetation on the Embankment & Bench Areas	
Some Vegatation growing	
C. Areas without Vegetation due to erosion (describe location and size of area)	
NO	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
WO	

2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)







OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR:
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2'-3' Below burn
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement): 10'-15' Bolow Bern
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map take pictures (include date stamp), and indicate location of pictures on the inspection map.
Worked an Erosion area East endpit phase I

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?			
(3) Any cracking?		-	
(4) Any traffic or animal damage?		-	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		
(6) Interior Side Slopes (1.5H:1V design)	~		
(7) Height of Berm above Ash Surface (ft)	,		okay



ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		~	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	· /		
(10) Any exposed ash on exterior slope?		~	
(11) Any visible water pooling or ponding?		~	
(12) Any visible water/runoff spill points?		~	
(13) Pipe Condition?	,		0 Key
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?		~	
(16) Any erosion/undermining of pipe at inlet or outlet?		V	
(17) Other?			

- 8	nlet or outlet?		V		
	(17) Other?				
	3. Amount and Type of Vegetation on the E	mbankme	nt & Bench	ı Areas	
	growth is Showing				
	C. Areas without Vegetation due to erosion	(describe	location ar	nd size of area)	
	No.	(4000.100			
). Areas without Vegetation due to lack of	topsoil cov	ver (describ	e location and size of area)	

2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

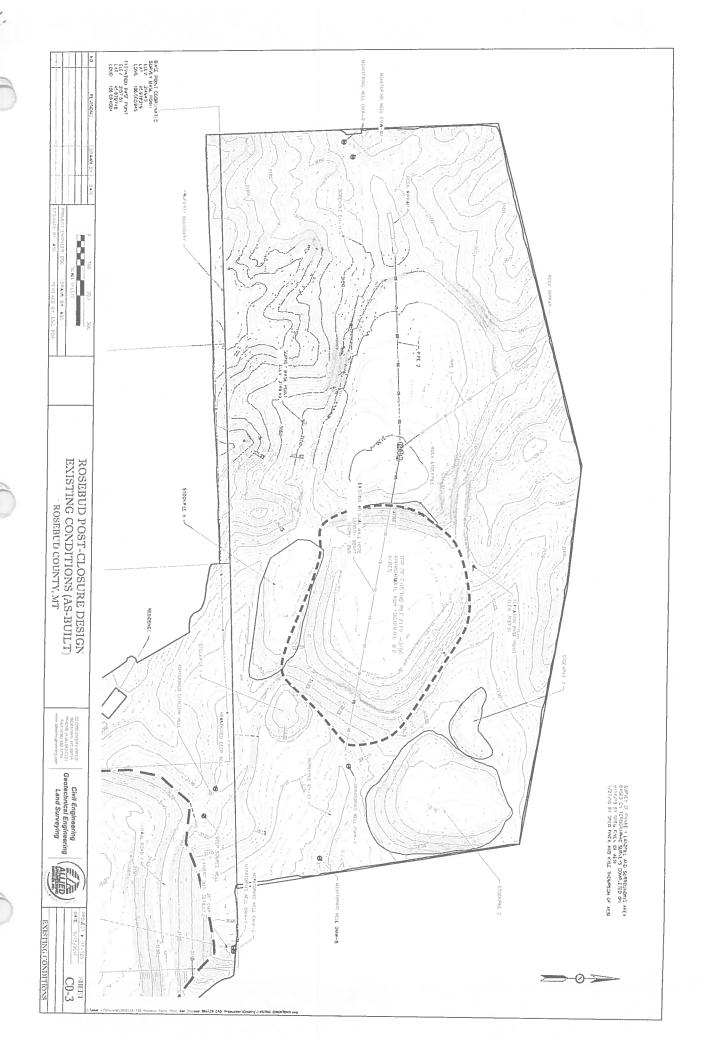
Olay

GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS
 (Use additional pages, if necessary, include pictures as needed)

Work on Erosion area Phase I

This inspection was performed by:_

Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: INSPECTOR: INSPECTOR: WEATHER (temperature, wind, precipitation): FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2'-3' Balow Brown
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10'-15' Blow Benn
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Derin (Exterior, Top, Interior, Benefics)	x i ipc		
ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		V	
(3) Any cracking?		V	
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	V		
(6) Interior Side Slopes (1.5H:1V design)	4		
(7) Height of Berm above Ash Surface (ft)			

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		~	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
(10) Any exposed ash on exterior slope?		V	1-1150 N OC 11115
(11) Any visible water pooling or ponding?		/	
(12) Any visible water/runoff spill points?		V	
(13) Pipe Condition?	V		ox
(14) Water flowing from pipe?		L	
(15) Any pooling or poding at pipe inlet or outlet?		.L	
(16) Any erosion/undermining of pipe at inlet or outlet?			
(17) Other?			

B. Amount and Type of Vegetation on the Emb	bankment & Bench Areas
9000 Degitation	6 Now Ty
C. Areas without Vegetation due to erosion (de	escribe location and size of area)
NO	
D. Areas without Vegetation due to lack of top	osoil cover (describe location and size of area)
2. Any annearances of an actual or notential st	ructural weakness of the CCR unit, in addition to any existing

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS

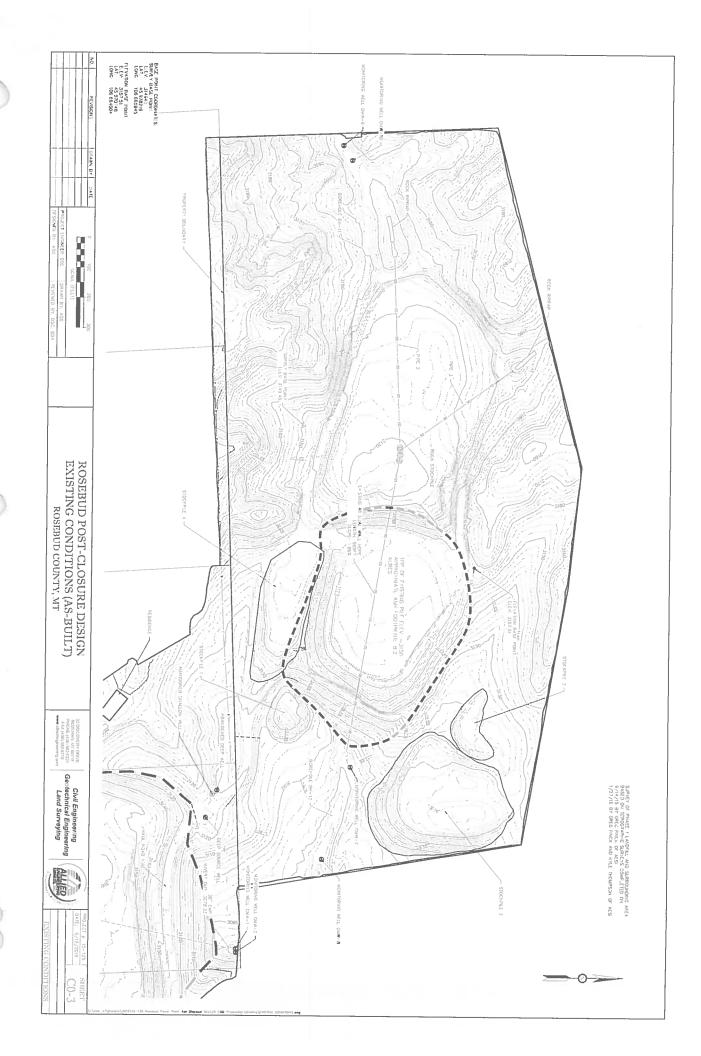
conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

(Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:

10

_ Signature and Date:



ß

OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Cose and Operating Services Inc.
INSPECTOR: Ken Mitowand
DATE & TIME INSPECTED: 6/14/17 10 35 WEATHER (temperature, wind, precipitation): 68°
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2-36t below Barn
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-15ft below Beron
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
General Instructions: Instructions of findings on an inspection man

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berni (Exterior, Top, Interior, Benches) o	i i i i i i i i i i i i i i i i i i i		
ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		_	
(2) Any misalignments?		_	
(3) Any cracking?			
(4) Any traffic or animal damage?	<u> </u>		
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	~		
(6) Interior Side Slopes (1.5H:1V design)	~		
(7) Height of Berm above Ash Surface (ft)			okay 2'-3'

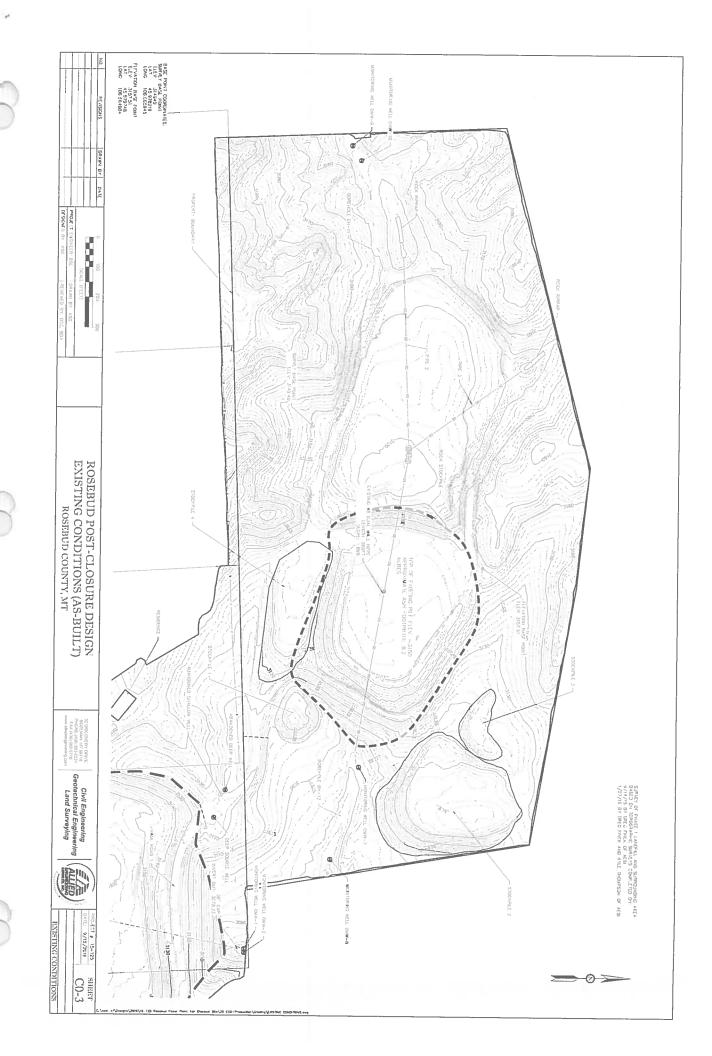


ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?		~	
(12) Any visible water/runoff spill points?		/	
(13) Pipe Condition?			0 Kay
(14) Water flowing from pipe?		•	
(15) Any pooling or poding at pipe inlet or outlet?		·	
(16) Any erosion/undermining of pipe at nlet or outlet?		V	
(17) Other?			

	70	=-								
V										
C. Areas wi	ithout Ve	getation due to	erosion (de	scribe loca	ation and	d size o	f area)			
W	10									
. Areas wi	ithout Ve	getation due t	lack of tops	oil cover ((describe	e locatio	on and	ize of	area)	
	1									
1	NO									
	10.5									

- 2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?
- 3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: \\ \(\frac{16}{2} \) Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Rosi INSPECTOR: Sohn Bryles DATE & TIME INSPECTED: 6-21-17 WEATHER (temperature, wind, precipitation): 2:36 Pm Dy - 80 F
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2'-3' below
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10+ below bern
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		~	
(3) Any cracking?			
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)	V		
(7) Height of Berm above Ash Surface (ft)	ì		3-4'





ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?		$\sqrt{}$	
(13) Pipe Condition?			9000
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?		V	
(16) Any erosion/undermining of pipe at inlet or outlet?			
(17) Other?			

	1	-	ķ.:	
	F	_	9	
1	N.C			
100	1			Э.
	1.70			

B. Amount and Type of Vegetation on the Embankmen	t & Bench Areas
---------------------------------------------------	-----------------

90055	weed	MIX

C. Areas without Vegetation due to erosion (describe location and size of area)



D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)

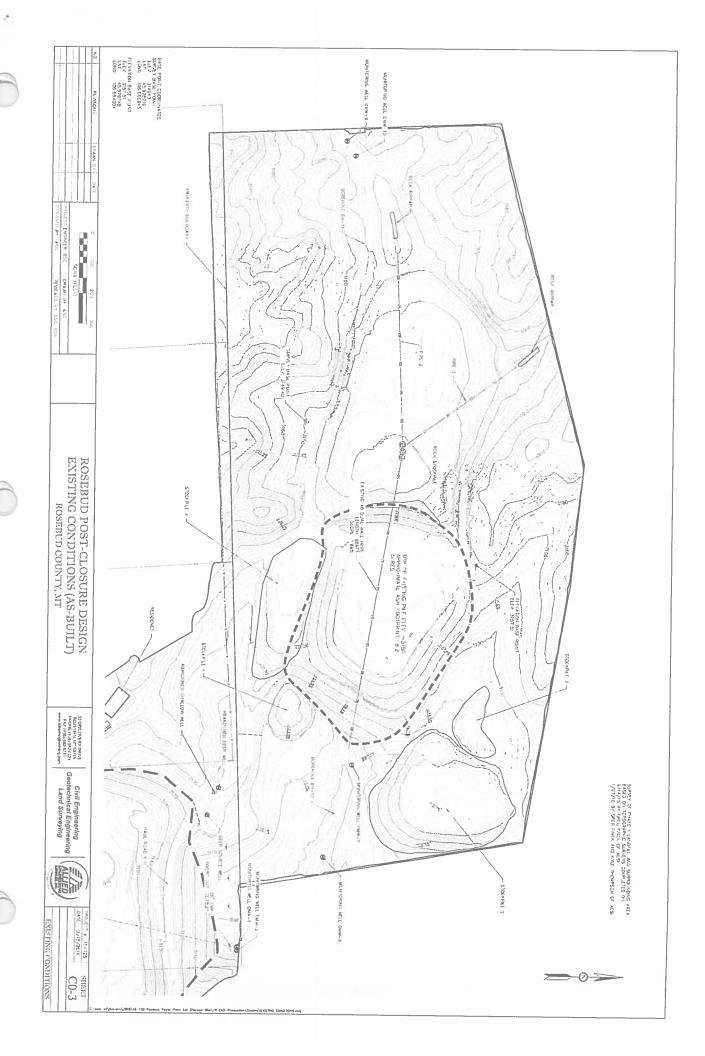
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)



This inspection was performed by:

Mahh 6-21-17



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR:
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 13 Below Bern
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement): 16' + Belows Berm
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Instruct for the general criteria below. Indicate locations of findings on an inspection man

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		V	7
(3) Any cracking?		/	
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)	V) =)
(7) Height of Berm above Ash Surface (ft)	V		2' £ 3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
(10) Any exposed ash on exterior slope?		/	
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?		V	
(13) Pipe Condition?			(0000)
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?		V	
(16) Any erosion/undermining of pipe at inlet or outlet?		/	
(17) Other?			

(17) Otner?	
B. Amount and Type of Vegetation on the	Embankment & Bench Areas
6000	Vegeton
C. Areas without Vegetation due to erosion	n (describe location and size of area)
Kone	
D. Areas without Vegetation due to lack of	topsoil cover (describe location and size of area)
NONE	
	Landard Control of the Control of the Little of the Control of the

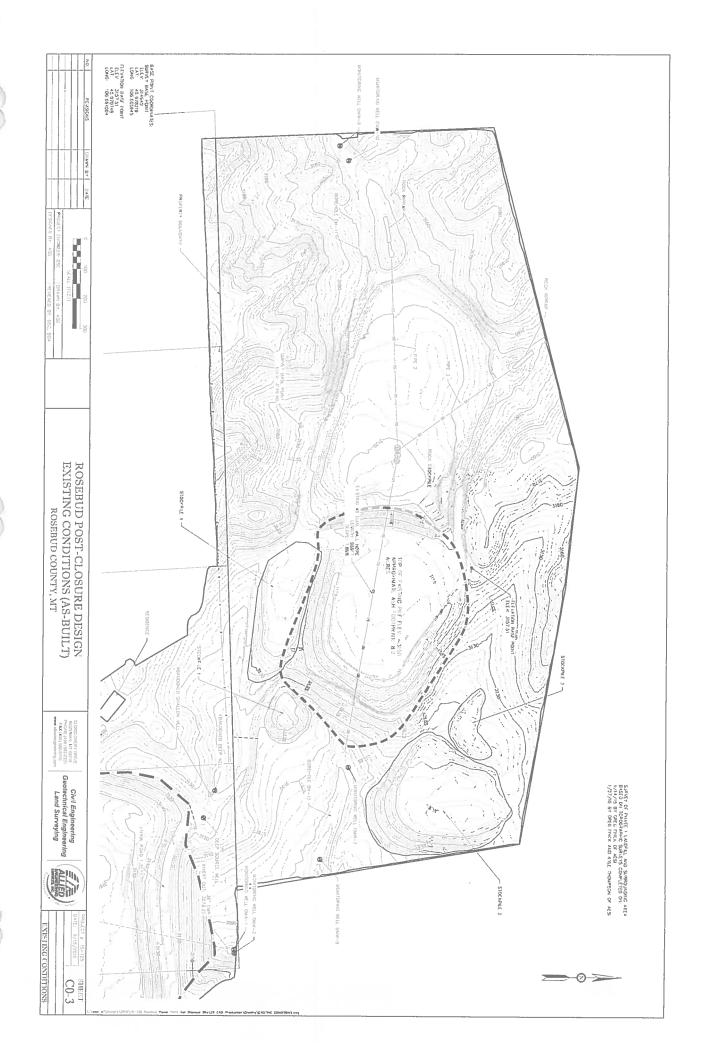
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

10

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:

6 · 36 - 17 Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR:
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2-3' below berm
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10+ feet below shortest bern
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		V	
(3) Any cracking?			
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)	1		
(7) Height of Berm above Ash Surface (ft)	/		2-3 ft

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
(10) Any exposed ash on exterior slope?		V	
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?		/	
(13) Pipe Condition?			Good
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at inlet or outlet?		·V	
(17) Other?			

Goal vege tation
C. Areas without Vegetation due to erosion (describe location and size of area)
None
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)
None

2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

No

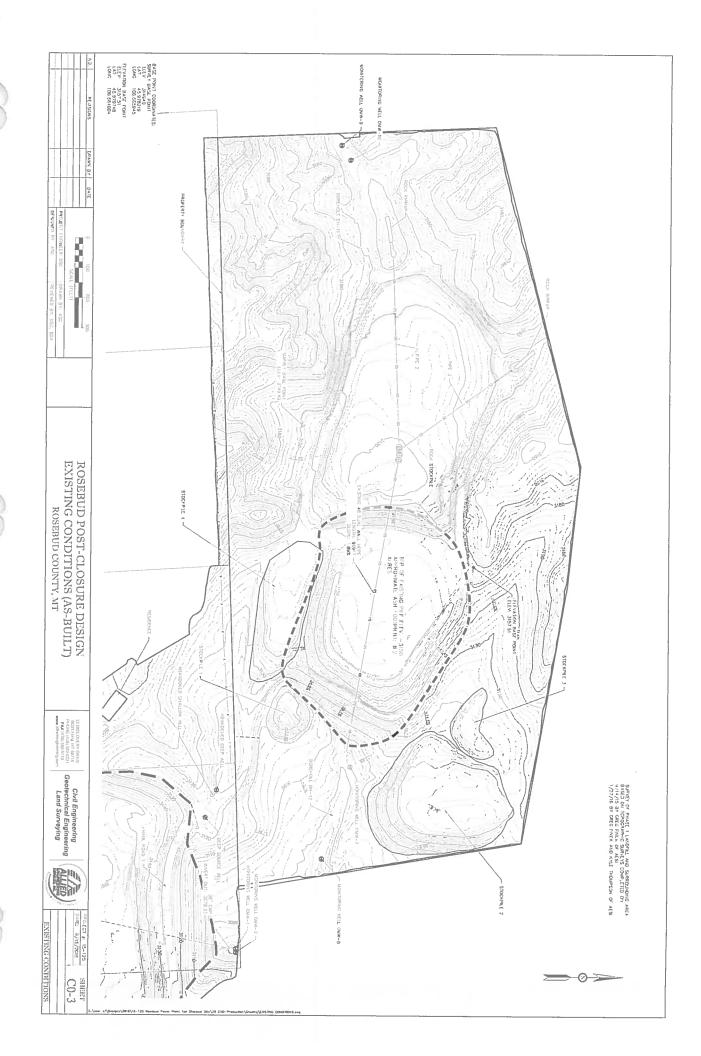
3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

B. Amount and Type of Vegetation on the Embankment & Bench Areas

None

This inspection was performed by:_

) 1-1-11
Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Cope but Operating Services face. INSPECTOR: Ken Metayland DATE & TIME INSPECTED: 7/14/17 WEATHER (temperature, wind, precipitation): 85 7 nucle W N W FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2-3' below beau.—
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement): 10-15' below been Adding daily
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? None :: If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berni (Exterior, Top, Interior, Benefics) & Tipe				
ITEM	YES	NO	REMARKS/LOCATION	
(1) Any visual settlement, sloughing, slumps, depressions or bulges?				
(2) Any misalignments?			15002.20	
(3) Any cracking?				
(4) Any traffic or animal damage?				
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1			
(6) Interior Side Slopes (1.5H:1V design)	/		O KAY	
(7) Height of Berm above Ash Surface (ft)			0 KAY 2-3'	

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		~	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		o Koy
(10) Any exposed ash on exterior slope?		~	
(11) Any visible water pooling or ponding?		/	
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?			o Kray
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?		/	
(16) Any erosion/undermining of pipe at inlet or outlet?	ļ		
(17) Other?			

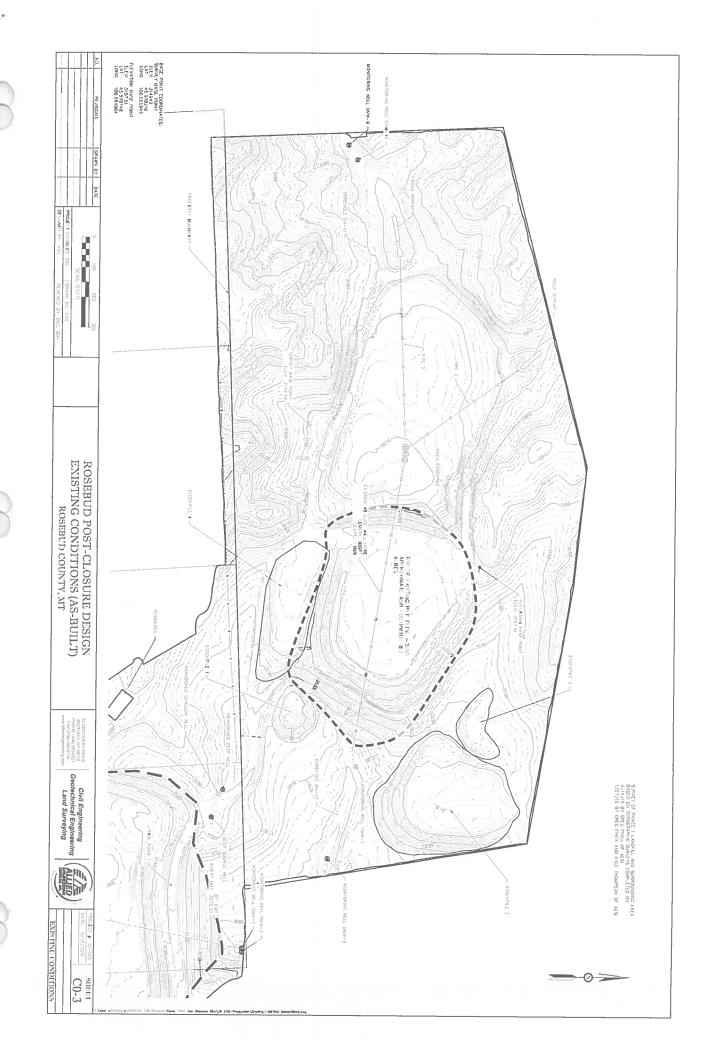
B. Amount and Type of Vegetation on the Embankment & Bench Areas
Vegatim gransing
C. Areas without Vegetation due to erosion (describe location and size of area)
Nane
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)
No

2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

NOWE

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: Manager Mana



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Colstrip Energy Limited Partnership (CELP
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2'-3' be low top of been
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10'-15 below bern Adding ash Linky
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		/	
(2) Any misalignments?			
(3) Any cracking?		V	
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		
(6) Interior Side Slopes (1.5H:1V design)			6 Key
(7) Height of Berm above Ash Surface (ft)	/		2-3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		c	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?		v	
(11) Any visible water pooling or ponding?		~	
(12) Any visible water/runoff spill points?		~	
(13) Pipe Condition?	~~.	,	Ollay
(14) Water flowing from pipe?		V	,
(15) Any pooling or poding at pipe inlet or outlet?		V	
(16) Any erosion/undermining of pipe at inlet or outlet?		V	
(17) Other?			

inlet or outlet?			
(17) Other?			
B. Amount and Type of Vegetation on the	Embankment & Bench	:h Areas	
Dry Brown regetation	ion No Ra	Pain	
C. Areas without Vegetation due to erosion			
o Kay			
D. Areas without Vegetation due to lack of	topsoil cover (describ	be location and size of area)	
No			
2. Any appearances of an actual or potentia conditions that are disrupting or have the p			ng

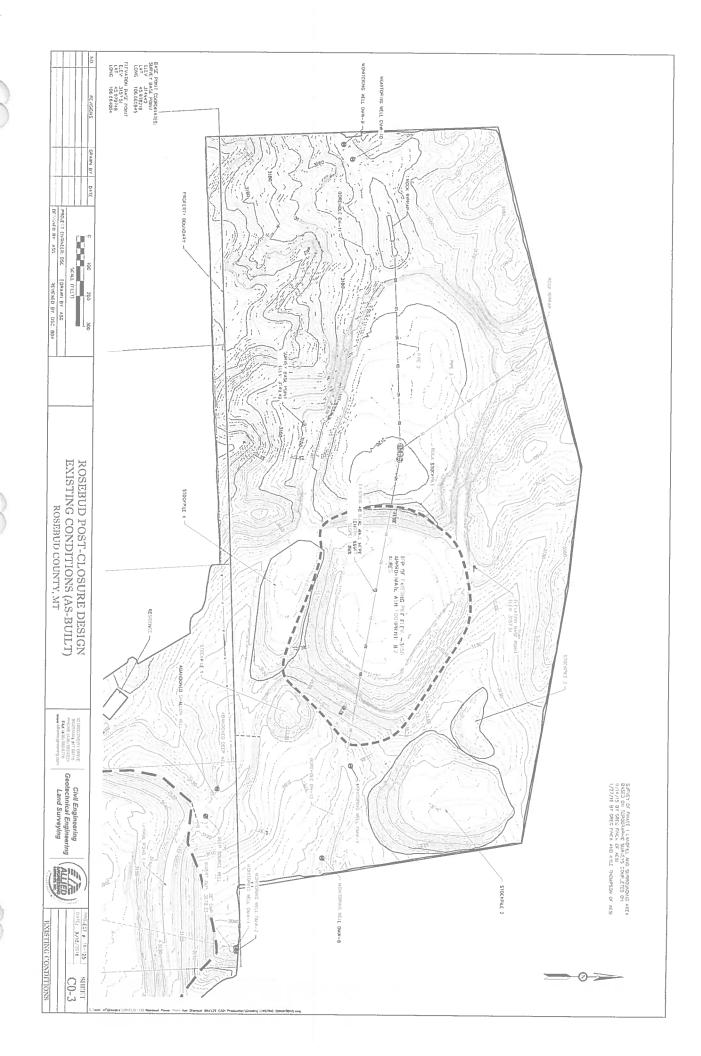
No

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

Dry Conditions

This inspection was performed by:

Signature and Date



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Rosebal Operating Savues (uc. INSPECTOR: Rosebal Operating Savues (uc. DATE & TIME INSPECTED: 7/28/17 805 WEATHER (temperature, wind, precipitation): 12 F 7 mpL Nest FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2'-3' Top Ban
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10'- 15 Balow Top of Been
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
General Instructions: Instructions of findings on an inspection man

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berni (Exterior, Top, Interior, Beriches) & Tipe					
ITEM	YES	NO	REMARKS/LOCATION		
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		/			
(2) Any misalignments?		/			
(3) Any cracking?		/			
(4) Any traffic or animal damage?		/			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			OKpy		
(6) Interior Side Slopes (1.5H:1V design)	V	,			
(7) Height of Berm above Ash Surface (ft)	1				

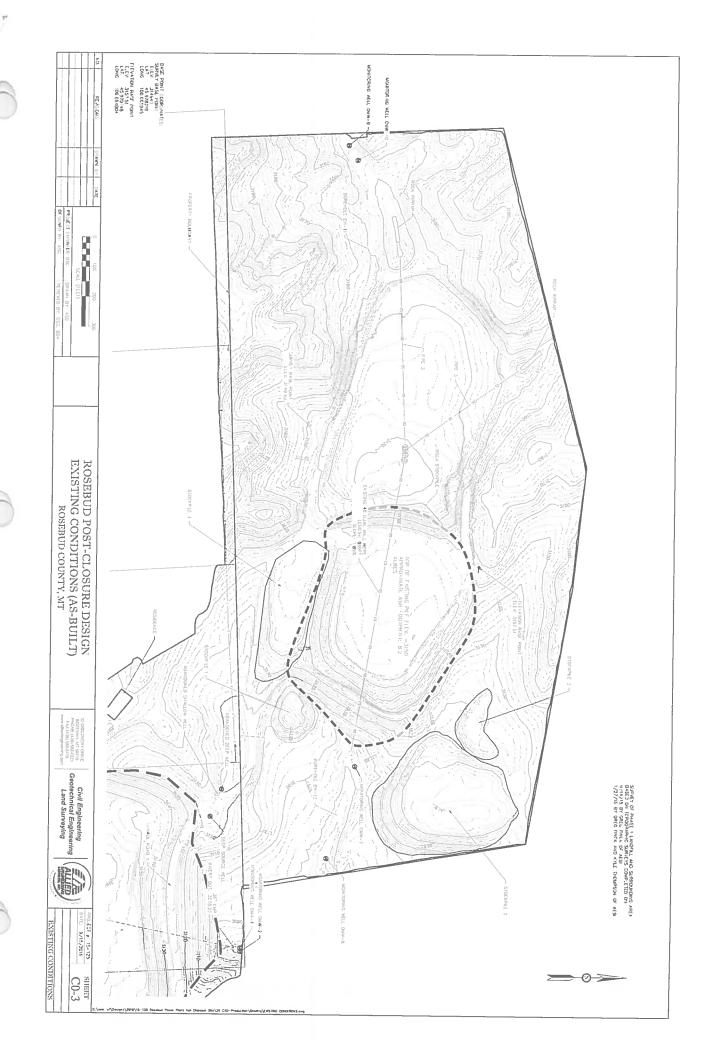
			¥
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	Surreita	æ	
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?		_	
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?			okay
(14) Water flowing from pipe?	1.	1	
(15) Any pooling or poding at pipe inlet or outlet?		~	
(16) Any erosion/undermining of pipe at inlet or outlet?		L	
(17) Other?			

(10) Any exposed ash on exterior slope?					
(11) Any visible water pooling or ponding?					
(12) Any visible water/runoff spill points?		_			
(13) Pipe Condition?			oKay		
(14) Water flowing from pipe?		-			
(15) Any pooling or poding at pipe inlet or outlet?		~			
(16) Any erosion/undermining of pipe at inlet or outlet?		~			
(17) Other?					
B. Amount and Type of Vegetation on the E	mbankment 8	& Bench	Areas		
a Dry & Brown	. No	Rai	· ·		
C. Areas without Vegetation due to erosion					
No					
D. Areas without Vegetation due to lack of t	opsoil cover (describe	e location and size of area)		
No					
2. Any appearances of an actual or potential conditions that are disrupting or have the po					

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR:
INSPECTOR: TOPE 7 June will
DATE & TIME INSPECTED: 8-5-17 10 AM
WEATHER (temperature, wind, precipitation): 32°C ~ Colm
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2-3 below top of Berm
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-15' below top of berm
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berni (Exterior, 10), interior, benefits a ripe					
ITEM	YES	NO	REMARKS/LOCATION		
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V			
(2) Any misalignments?		V			
(3) Any cracking?		\(\)			
(4) Any traffic or animal damage?		V			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	J				
(6) Interior Side Slopes (1.5H:1V design)					
(7) Height of Berm above Ash Surface (ft)	V		2' 103'		

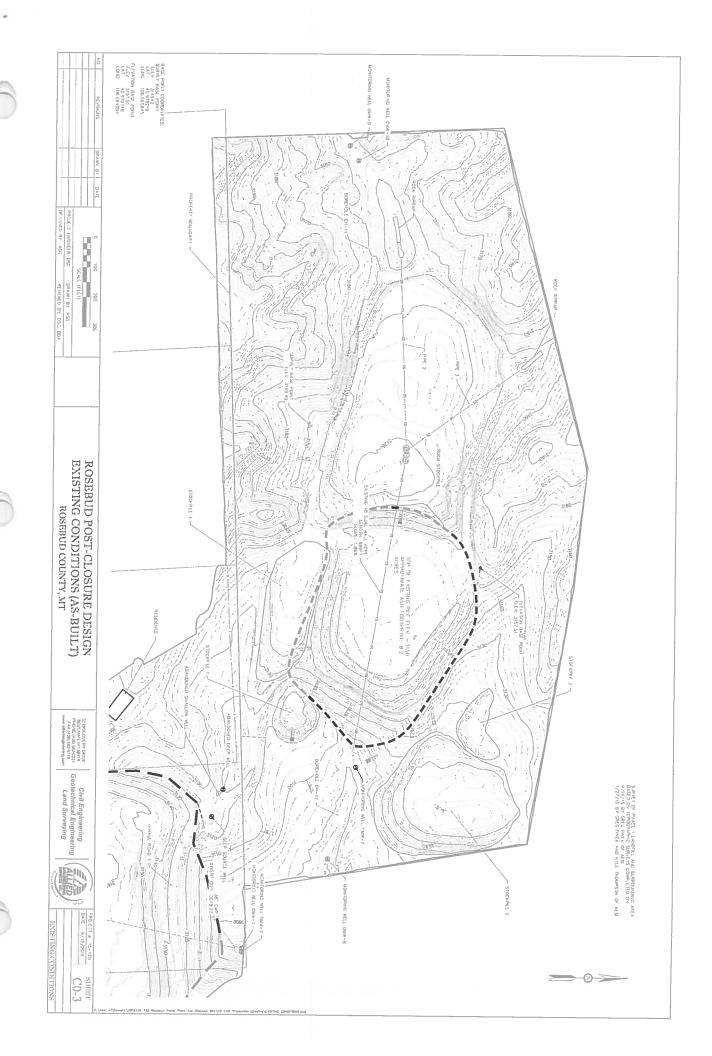
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		/	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?		5	
(13) Pipe Condition?			OK
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?		/	
(16) Any erosion/undermining of pipe at nlet or outlet?			
(17) Other?			

(17) Other:						
B. Amount and Type of Vegetation on the Embankment & Bench Areas						
Dry - No Rain - Weeds on lop of phase I bern						
C. Areas without Vegetation due to erosion (describe location and size of area)						
NA						
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)						
NA						
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?						

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

None

This inspection was performed by: 8/5/17 Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Cost of Grading Services INSPECTOR: Cost of Grading Services INSPECTOR: MEATHER (INSPECTED: B/O/17 WEATHER (temperature, wind, precipitation): Cost of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2 - 3' + Top Ash Berm
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement): 10'-15' p Top Ash Bern
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?			
(3) Any cracking?		0	
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	/		Okay
(6) Interior Side Slopes (1.5H:1V design)	~		
(7) Height of Berm above Ash Surface (ft)	/		2-3

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	/		
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?		<i>⊗</i>	okay
(14) Water flowing from pipe?			0
(15) Any pooling or poding at pipe inlet or outlet?		0	
(16) Any erosion/undermining of pipe at inlet or outlet?			
(17) Other?			

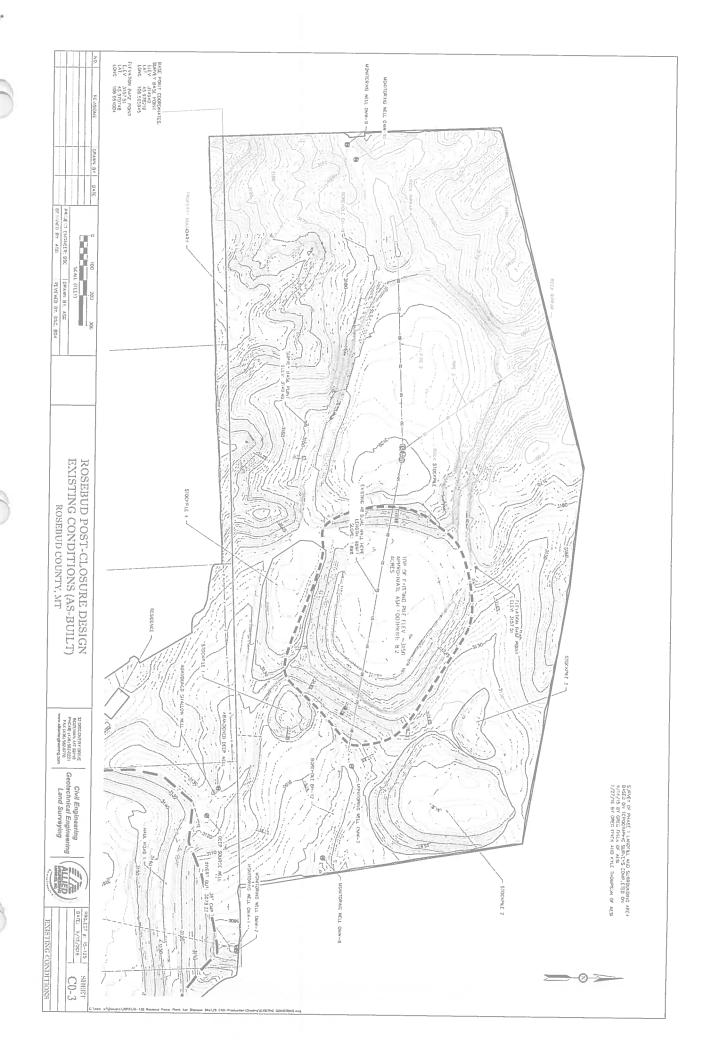
(10) Any exposed asii on exterior slope?			
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?		<i>©</i>	Okay
(14) Water flowing from pipe?			0
(15) Any pooling or poding at pipe inlet or outlet?		0	
(16) Any erosion/undermining of pipe at inlet or outlet?			
(17) Other?			
B. Amount and Type of Vegetation on the E	mbankment	& Bench	h Areas
Brown Some green She	orang yr	ch	
C. Areas without Vegetation due to erosion			nd size of area)
No			
D. Areas without Vegetation due to lack of t	opsoil cover	(describe	be location and size of area)
No			
2. Any appearances of an actual or potential	structural w	eakness	s of the CCR unit in addition to any existing

conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Koseful Specting Services (NC.
INSPECTOR: La Market
WEATHER (temperature, wind, precipitation): 80° 3 mg/s
WEATHER (temperature, wind, precipitation): Solution State S
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2'-3' from Top Bom
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-15 from Top of Bern
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		~	
(2) Any misalignments?		-	
(3) Any cracking?			
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			o Kray
(6) Interior Side Slopes (1.5H:1V design)			okay
(7) Height of Berm above Ash Surface (ft)			2 '- 3'

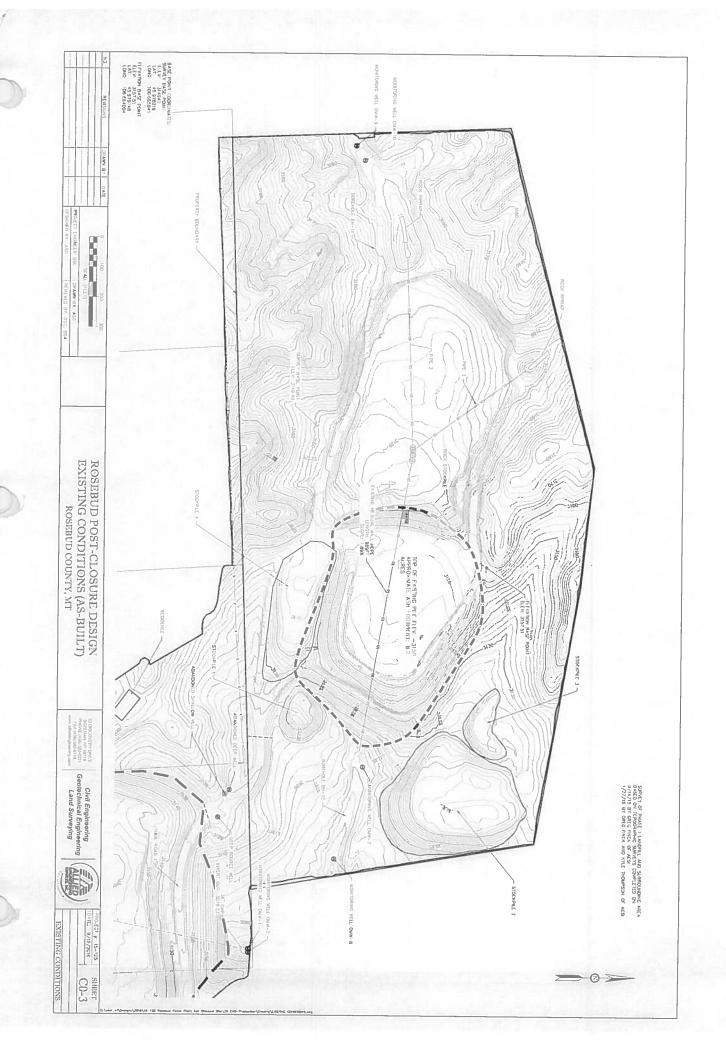
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?		_	
(11) Any visible water pooling or ponding?		_	
(12) Any visible water/runoff spill points?		-	
(13) Pipe Condition?		~	
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at nlet or outlet?		_	
(17) Other?			

(14) Water flowing from pipe?		
(15) Any pooling or poding at pipe inlet or outlet?		
(16) Any erosion/undermining of pipe at inlet or outlet?		
(17) Other?		
B. Amount and Type of Vegetation on the Emban	ıkment & Bench Are	eas
Dry No Rai		
C. Areas without Vegetation due to erosion (desc	ribe location and si	ze of area)
No		
D. Areas without Vegetation due to lack of topsoi	l cover (describe lo	cation and size of area)
No		

NO

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

No Ash bury add in Phrsett Plant is doron
This inspection was performed by: 18/17
Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Research Partnership Services / NC.
DATE & TIME INSPECTED: 8/25/17 2pm WEATHER (temperature, wind, precipitation): 83° F N 14 mph
WEATHER (temperature, wind, precipitation): 83° F N 14 wph
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2-3' from Top Brem
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-15 from Top of Benn
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
If so, note here:

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

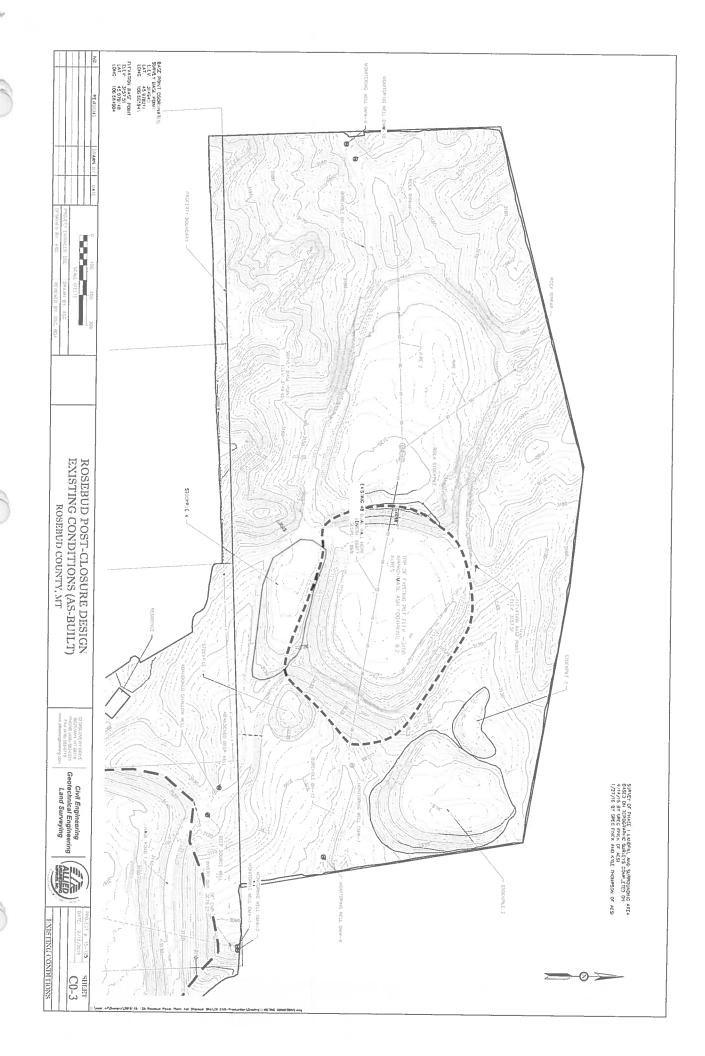
ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?		1/	
(3) Any cracking?		/	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	/		
(6) Interior Side Slopes (1.5H:1V design)	_		o Kay
(7) Height of Berm above Ash Surface (ft)			2'-3'

			1
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?		/	
(13) Pipe Condition?			
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?		~	
(16) Any erosion/undermining of pipe at inlet or outlet?			
(17) Other?			

(==) · · p = == · · · · ·					
(14) Water flowing from pipe?					
(15) Any pooling or poding at pipe inlet or outlet?					
(16) Any erosion/undermining of pipe at inlet or outlet?	!				
(17) Other?					
B. Amount and Type of Vegetation on the E	Embankme	nt & Bench	Areas		
Dry No Rain					
C. Areas without Vegetation due to erosion	(describe	location an	d size of area)		
No					
D. Areas without Vegetation due to lack of	topsoil cov	er (describ	e location and size of area)		
No					
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?					

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

No Ash being added fit these IT flat down ection was performed by 150 Miles 18/25/17 and Date: This inspection was performed by:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Koschuld Operang Services Inc INSPECTOR: Let mished DATE & TIME INSPECTED: 91/17 9/5/m WEATHER (temperature, wind, precipitation): 69 12 mph NW FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2'-3' Top Burn
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10'-15' Top Bom
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		/	
(3) Any cracking?		-	
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)	1		
(7) Height of Berm above Ash Surface (ft)			2'-3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	1	*	
(10) Any exposed ash on exterior slope?		1	
(11) Any visible water pooling or ponding?		/	
(12) Any visible water/runoff spill points?		/	
(13) Pipe Condition?		25	8 Kay
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at inlet or outlet?		1	
(17) Other?			
B. Amount and Type of Vegetation on the E	mbankmei	nt & Bench	Areas
grass Pry No.	Pair		
C. Areas without Vegetation due to erosion	(describe l	ocation and	d size of area)
No			
D. Areas without Vegetation due to lack of	topsoil cov	er (describe	e location and size of area)
No No	Rain		

2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

None

GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS
 (Use additional pages, if necessary, include pictures as needed)

Watching for Fire Dangers

This inspection was performed by: Many Market Market

Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Rose bud Operating Services (NC.
INSPECTOR: Ken ME Fay and
DATE & TIME INSPECTED: 918/17 12/5
DATE & TIME INSPECTED: 918/17 1215 WEATHER (temperature, wind, precipitation): 78 8 mgh ESE
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
<u>Flyash Storage Site Status</u>
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2 - 3 For For Bur
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10 - 15 For top Bum
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? NoNE:
If so, note here:

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		/	
(3) Any cracking?		/	
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	er .		
(6) Interior Side Slopes (1.5H:1V design)	1		
(7) Height of Berm above Ash Surface (ft)	-		₽ 2-3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V	8	
(10) Any exposed ash on exterior slope?		1	
(11) Any visible water pooling or ponding?		r	
(12) Any visible water/runoff spill points?		L	
(13) Pipe Condition?	C		OKay
(14) Water flowing from pipe?		v	
(15) Any pooling or poding at pipe inlet or outlet?		-	
(16) Any erosion/undermining of pipe at nlet or outlet?		1	
(17) Other?			

C. Areas without Vegetation due to erosion (describe location and size of area) D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	grass Dry No Rain	
	C. Areas without Vegetation due to erosion (describe location and size of area)	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	No	
	D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
	No	

2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS

(Use additional pages, if necessary, include pictures as needed)

No Ash being demped flort is Down.

This inspection was performed by:

The Signature and Date: 9/3/11



OPERATOR: Roseland D purs a Survive Par.
INSPECTOR: 1/m means
DATE & TIME INSPECTED: 9 15/17 1143
WEATHER (temperature, wind, precipitation): 48°F 6 mph NNE
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2'-3' Balow Berns Top
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
15'-15' Brow Bern Top
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? None:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection man

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Bern (Exterior, Top, Interior, Benches)	T		
ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		/	
(2) Any misalignments?		/	
(3) Any cracking?		1	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		
(6) Interior Side Slopes (1.5H:1V design)	1		
(7) Height of Berm above Ash Surface (ft)	1		2'-3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		_	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	-		
(10) Any exposed ash on exterior slope?		-	
(11) Any visible water pooling or ponding?		-	
(12) Any visible water/runoff spill points?		~	
(13) Pipe Condition?	-	8	
(14) Water flowing from pipe?		~	
(15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at inlet or outlet?		-	
(17) Other?			
B. Amount and Type of Vegetation on the E	mhankme	nt & Bench	Δτρας
	-11100111111111111111111111111111111111	it & Delicit	riicus
0 Kpg		# Steff	

C. Areas without Vegetation due to erosion (describe location and size of area)

D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)

W.O.

2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

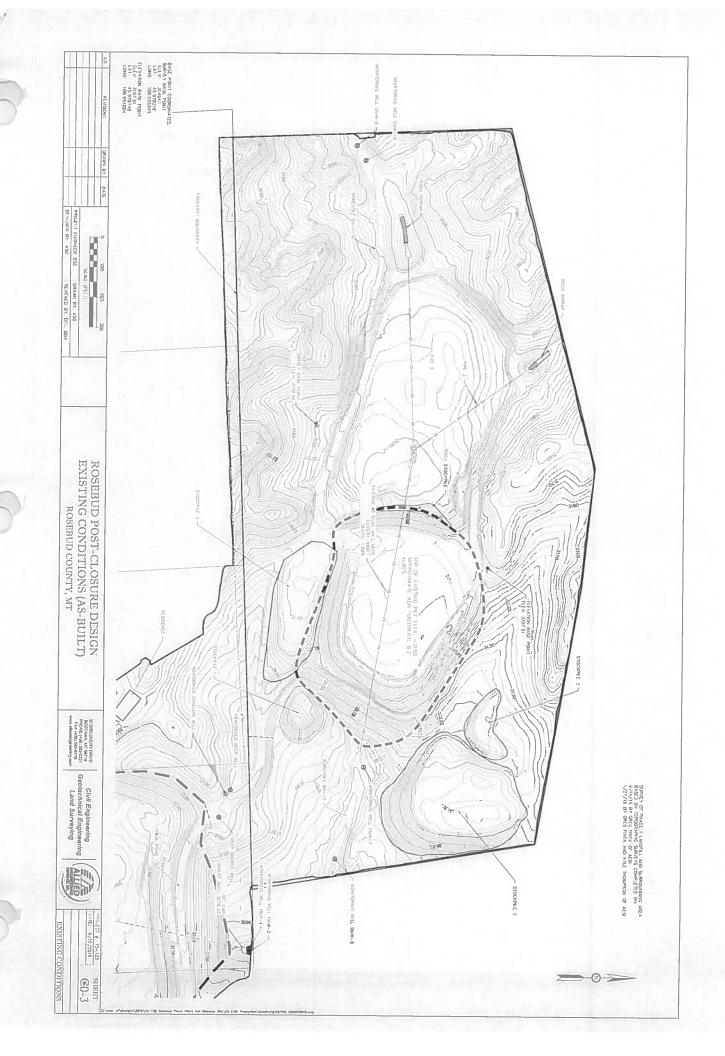
NONE

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS
(Use additional pages, if necessary, include pictures as needed)

Original foliages.

This inspection was performed by:

Signature and Date



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Coscoud operating Services (no INSPECTOR: Ker Mr Fayland
OPERATOR: Coscoud Operating Devoices (ac
INSPECTOR: Kan Mc Fayland
DATE & TIME INSPECTED: 9/22/17 3/9
DATE & TIME INSPECTED: 9/22/17 3/4 WEATHER (temperature, wind, precipitation): 45° Cloudy - NE / Laph Chana Rain
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2'3' from top berm
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10'-15' from Top of Berm
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?		1	
(3) Any cracking?		1	
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	~		
(6) Interior Side Slopes (1.5H:1V design)	1		o Kay
(7) Height of Berm above Ash Surface (ft)			2:3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		-	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	1		
(10) Any exposed ash on exterior slope?		-	
(11) Any visible water pooling or ponding?		-	
(12) Any visible water/runoff spill points?		1	
(13) Pipe Condition?			Okay
(14) Water flowing from pipe?		-	
(15) Any pooling or poding at pipe inlet or outlet?		-	
(16) Any erosion/undermining of pipe at inlet or outlet?		-	
(17) Other?			
B. Amount and Type of Vegetation on the E	Embankme	nt & Bench	Areas
p Keny			
C. Areas without Vegetation due to erosion	(describe	location ar	nd size of area)
No			
D. Areas without Vegetation due to lack of	tonsoil cov	er (describ	e location and size of area)

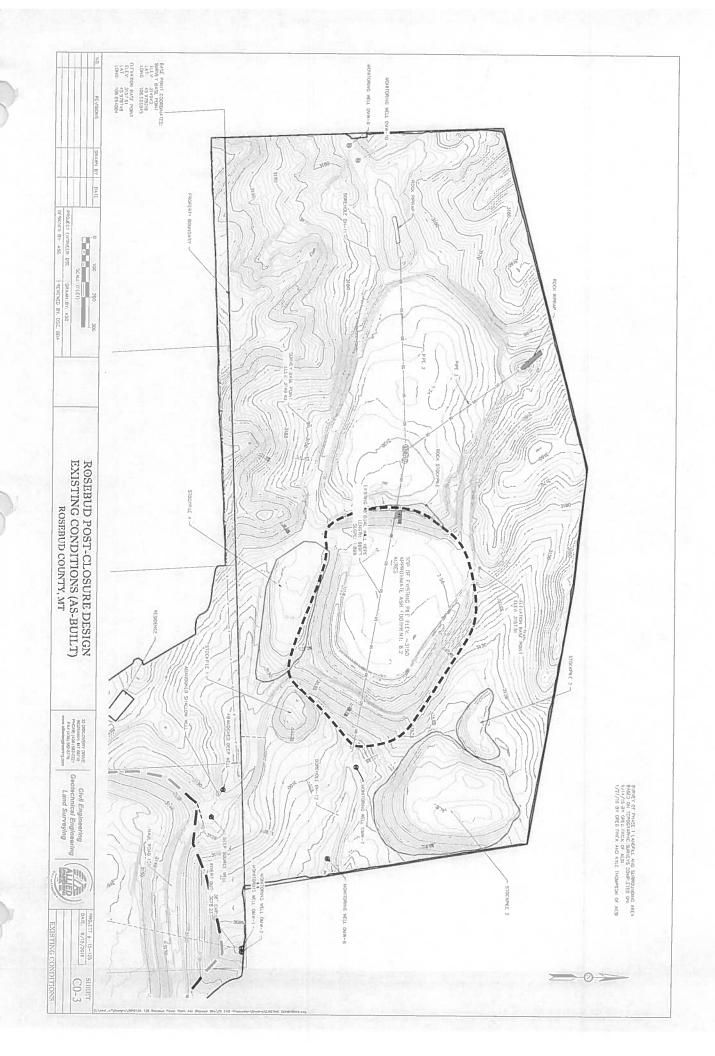
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

Chance for Pain to day of Thra weekend

This inspection was performed by HM 342/17 Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Rosebud Operating Services (uc. INSPECTOR: Kun Mitterland
DATE O TIME INCRECTED. 9/00/19
WEATHER (temperature, wind, precipitation): 68° 13 mgh South Part Cloudy
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2'-3' top of bun
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
18'- 15 From top of burn
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? 12:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?		1	
(3) Any cracking?		1	
(4) Any traffic or animal damage?		1	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		
(6) Interior Side Slopes (1.5H:1V design)	1		
(7) Height of Berm above Ash Surface (ft)			2-3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		٢	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	1		
(10) Any exposed ash on exterior slope?		٠	
(11) Any visible water pooling or ponding?		-	
(12) Any visible water/runoff spill points?		_	
(13) Pipe Condition?			okay
(14) Water flowing from pipe?		0	
(15) Any pooling or poding at pipe inlet or outlet?		·	
(16) Any erosion/undermining of pipe at nlet or outlet?		1	
(17) Other?			

B. Amount and Type of Vegetation on the Embankment & Bench Areas	
okan	
C. Areas without Vegetation due to erosion (describe location and size of area)	
No	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
No	

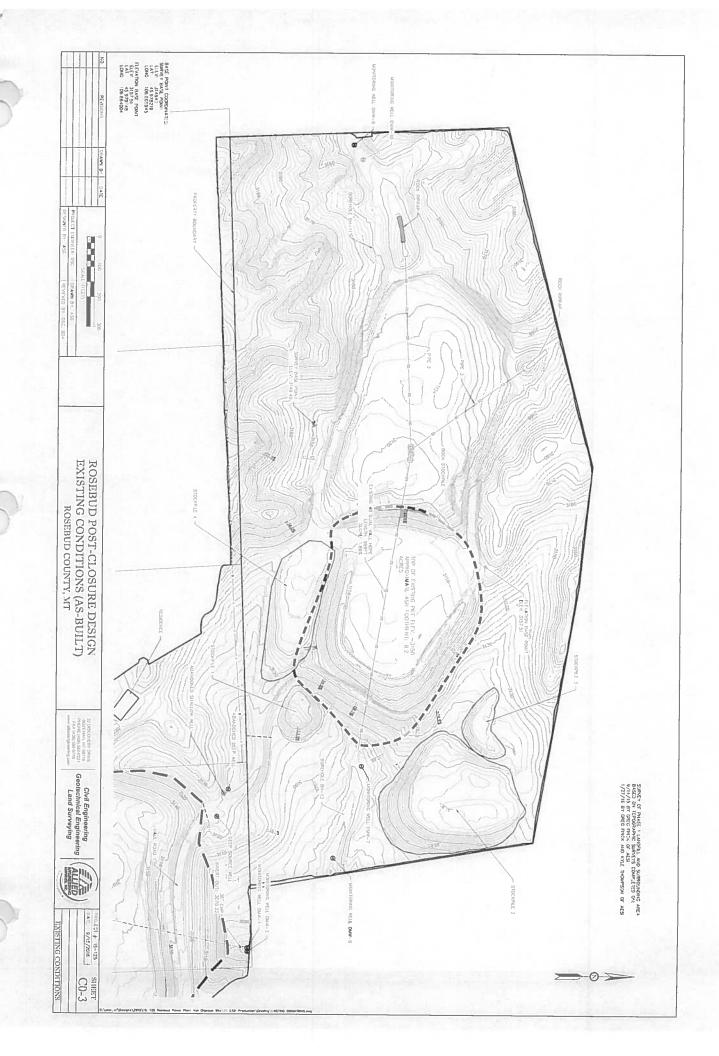
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:

Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Rosque expending Jungias JAC INSPECTOR: ACCIVITATION
DATE & TIME INSPECTED: 16/6/17 14:07
WEATHER (temperature, wind, precipitation): // / / / / / / / / / / / / / / / / /
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10 TO 15 FT HOW top of Boms
10 to 17 / Aces cop 4/350
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to ocations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
f so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection man

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		V	
(2) Any misalignments?		~	
(3) Any cracking?		L	
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)	L		
(7) Height of Berm above Ash Surface (ft)			2'-3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		/	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	/		
(10) Any exposed ash on exterior slope?		-	
11) Any visible water pooling or onding?		1	
(12) Any visible water/runoff spill points?		V	
(13) Pipe Condition?			oK
14) Water flowing from pipe?		L	
15) Any pooling or poding at pipe inlet routlet?		U	
16) Any erosion/undermining of pipe at let or outlet?			
7) Other?			
Amount and Type of Vegetation on the E	mbankme	nt & Bench	Areas
Areas without Vegetation due to erosion	(describe	location an	d size of area)
hone			
. Areas without Vegetation due to lack of t	onsoil cov	er (describe	location and size of area)

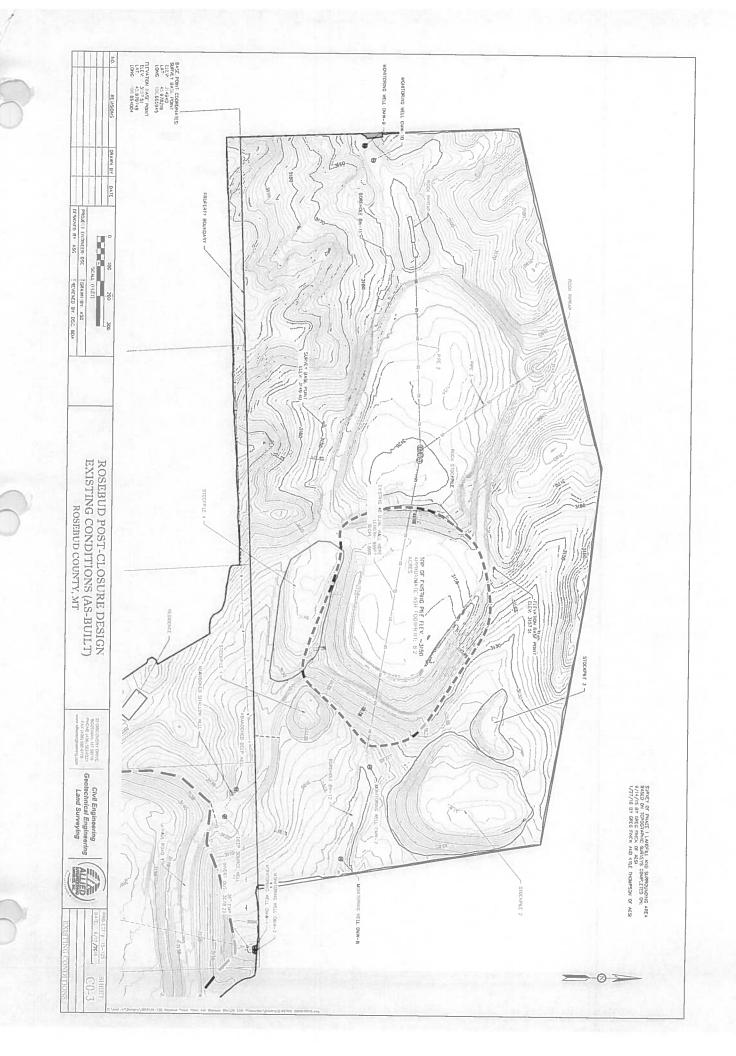
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:

MOXI



OWNER: Colstrin Energy Limited Partnership (CELP)
OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Koschad Operating Services Inc INSPECTOR: Kon Mc Farband
INSPECTOR: Kin Mc Fayland
DATE & TIME INSPECTED: 10/13/17 750 WEATHER (temperature, wind, precipitation): 32 4 mph 5w
WEATHER (temperature, wind, precipitation): 32 4 mph 5W
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 2 - 3' from Top Bern.
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement): 10'-15' from Top Benn
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
If so, note here:

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		/	
(2) Any misalignments?			
(3) Any cracking?		-	Heaving Andy Bladel history
(4) Any traffic or animal damage?		·	Heaving Andy Bladed histord
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			okay
(6) Interior Side Slopes (1.5H:1V design)	,		
(7) Height of Berm above Ash Surface (ft)			2-3'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		-	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			
(10) Any exposed ash on exterior slope?		~	
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill points?		-	
(13) Pipe Condition?			oKay
14) Water flowing from pipe?		-	
(15) Any pooling or poding at pipe inlet or outlet?		-	
(16) Any erosion/undermining of pipe at nlet or outlet?		-	
(17) Other?			

- oKay
- oKay -
- OKay
Bench Areas
ion and size of area)
escribe location and size of area)
i

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: 4 16/13/17 | Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: CSL
INSPECTOR: Toel Zimmerman
INSPECTOR: Joel Zimmerman DATE & TIME INSPECTED: 10/25/17 - 09/3 hrs WEATHER (temperature, wind, precipitation): 44°F - 17 West wind Dry
WEATHER (temperature, wind, precipitation): 44 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
MDEQ Groundwater Permit # MTX000032, MDEQ Stormwater Discharge Fermit # MTX000032, MDEQ Stormwater Discharge Fermit # MTX0000032, MDEQ Stormwater Discharge Fermit # MTX00000032, MDEQ Stormwater Discharge Fermit # MTX00000032, MDEQ Stormwater Discharge Fermit # MTX00000032, MDEQ Stormwater Discharge Fermit # MTX000000000000000000000000000000000000
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2-3' below top of berm
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-191 from tops of berms
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Λ/p
Any Issues From Previous Week/Inspection?:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?		V	
(3) Any cracking?		V	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	V		
(6) Interior Side Slopes (1.5H:1V design)			
(7) Height of Berm above Ash Surface (ft)			2 to 3"

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		1	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	1		
(10) Any exposed ash on exterior slope?		/	
(11) Any visible water pooling or conding?		1	
(12) Any visible water/runoff spill points?			
(13) Pipe Condition?	V		Good
14) Water flowing from pipe?		1	
15) Any pooling or poding at pipe inlet routlet?			
16) Any erosion/undermining of pipe at nlet or outlet?			
17) Other?		1	

B. Amount and Type of Vegetation on the Embankment & Bench Areas	
May-	
C. Areas without Vegetation due to erosion (describe location and size of area)	
N_{o}	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
No	

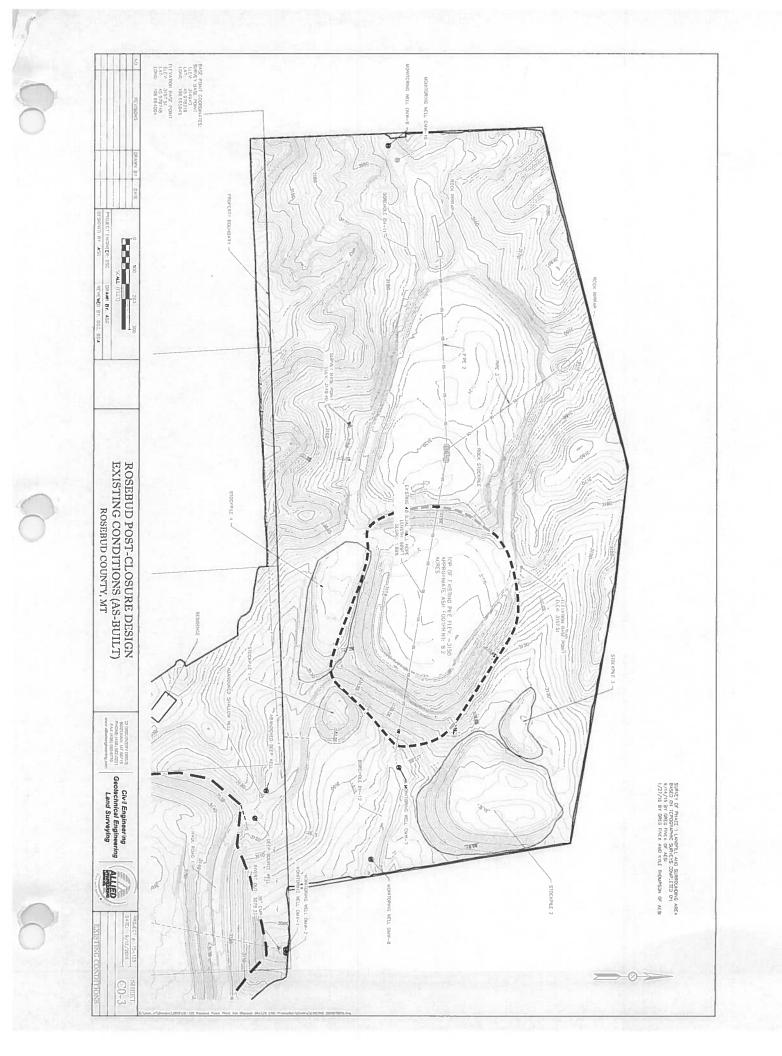
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:

Signature and Date:



OWNER: Colstrip Finergy Limited Partnership (CELP),
OPERATOR: Koseland Operating Services / he
INSPECTOR: /len M. Farland
DATE & TIME INSPECTED: 10/30/17 0905 WS
WEATHER (temperature, wind, precipitation): 274 15 mgh NW Cloudy
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2'-3' Below Top of the Beron
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-19' Below Top of the Bum
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? <u>\(\int D \)</u> :
If so, note here:

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berni (Exterior, Top, Interior, Beriches) & Pipe				
ITEM	YES	NO	REMARKS/LOCATION	
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		1		
(2) Any misalignments?		1		
(3) Any cracking?		1		
(4) Any traffic or animal damage?		1		
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	J		o Kay	
(6) Interior Side Slopes (1.5H:1V design)	1			
(7) Height of Berm above Ash Surface (ft)			2:3' Top of Burn	

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		1	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	0	K	
(10) Any exposed ash on exterior slope?		V	
(11) Any visible water pooling or conding?		V	
(12) Any visible water/runoff spill points?		V	
13) Pipe Condition?			o/Lay
14) Water flowing from pipe?		~	
15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at helet or outlet?		/	
17) Other?			

B. Amount and Type of Vegetation on the Embankment & Bench Areas	
Okry	
C. Areas without Vegetation due to erosion (describe location and size of area)	
Wo	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	6301
N_0	

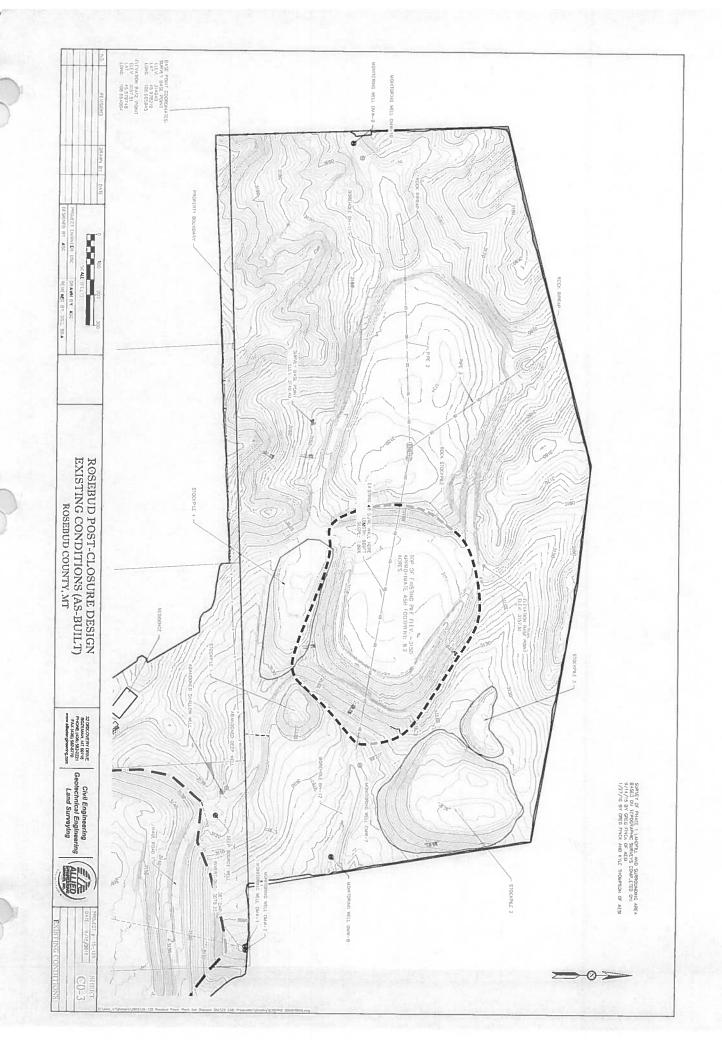
2. Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit?

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:_

Signature and Date



OWNER: Colstrip—Energy Limited Partnership (CELP)
OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Cose ond Operating Services (NC.
INSPECTOR: Ken Mc Footland
WEATHER (temperature, wind, precipitation): 31°F 8 mp L West Cloudy / Snow
WEATHER (temperature, wind, precipitation): 31°F & mp & West Cloudy / Snow
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
2.3 ft from top of bum
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10-19 for from top of bonn
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide Insp. Map)
AC
Any Issues From Previous Week/Inspection?:
If so, note here:

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

A. Berni (Exterior, 10p, litterior, Beriches) & Pipe					
ITEM	YES	NO	REMARKS/LOCATION		
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		-			
(2) Any misalignments?		-			
(3) Any cracking?		1			
(4) Any traffic or animal damage?		1			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		o Kay		
(6) Interior Side Slopes (1.5H:1V design)	~				
(7) Height of Berm above Ash Surface (ft)			2'-3' to Top Bonn		

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		-	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?			o Kny
(10) Any exposed ash on exterior slope?		-	
(11) Any visible water pooling or ponding?		1	
(12) Any visible water/runoff spill points?		1	
(13) Pipe Condition?			good
14) Water flowing from pipe?		/	
(15) Any pooling or poding at pipe inlet or outlet?		1	
(16) Any erosion/undermining of pipe at nlet or outlet?		U	
17) Other?			

D Key	1007
C. Areas without Vegetation due to erosion (describe location and size of area)	
No	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
No	

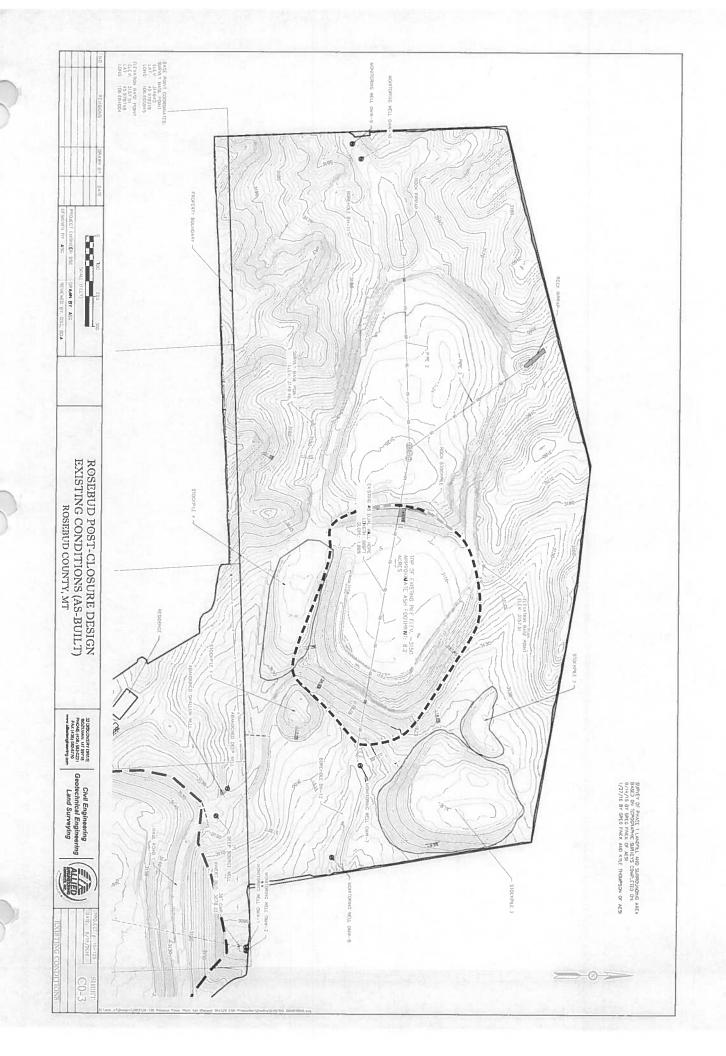
None

B. Amount and Type of Vegetation on the Embankment & Bench Areas

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

Blomfat of Snow last night

This inspection was performed by: har 11/3 signature and Date:



	OWNER: Colstrip Energy Limited Partnership (CELP)
	OPERATOR: ROBE bild Operating Services Inc
	OPERATOR: ROSC and Operating Services Inc INSPECTOR: Ken in Fullahol
	DATE 2. TIME INSPECTED: ////6//7
	WEATHER (temperature, wind, precipitation): 36 £ 75 W
	FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landing,
	MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
	Flyash Storage Site Status
	and the second s
	Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
	1-2 from Top Bern
	Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
	10'-19' from Top Ben
	This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
	locations of comments/picture indicated below. (Allied Provide insp. Map)
	A CONTRACTOR OF THE CONTRACTOR
	Any Issues From Previous Week/Inspection?
	If so, note here:
	General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map
	take pictures (include date stamp), and indicate location of pictures on the inspection map.
-	2-3" Snow fall since last inspetion



1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?		/	
(3) Any cracking?		1	
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			o Key
(6) Interior Side Slopes (1.5H:1V design)	V		
(7) Height of Berm above Ash Surface (ft)	V		1-2' from Top Bun





ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V	ia?	
(10) Any exposed ash on exterior slope?		V	
(11) Any visible water pooling or ponding?		L	
(12) Any visible water/runoff spill points?		V	
(13) Pipe Condition?		*	okeny
(14) Water flowing from pipe?		V	,
(15) Any pooling or poding at pipe inlet or outlet?		U	
(16) Any erosion/undermining of pipe at nlet or outlet?		V	
(17) Other?			

B. Amount and Type of Vegetati	Covered			
C. Areas without Vegetation due		location and size of are	ea)	
No				
D. Areas without Vegetation due	to lack of topsoil cov	ver (describe location a	nd size of area)	

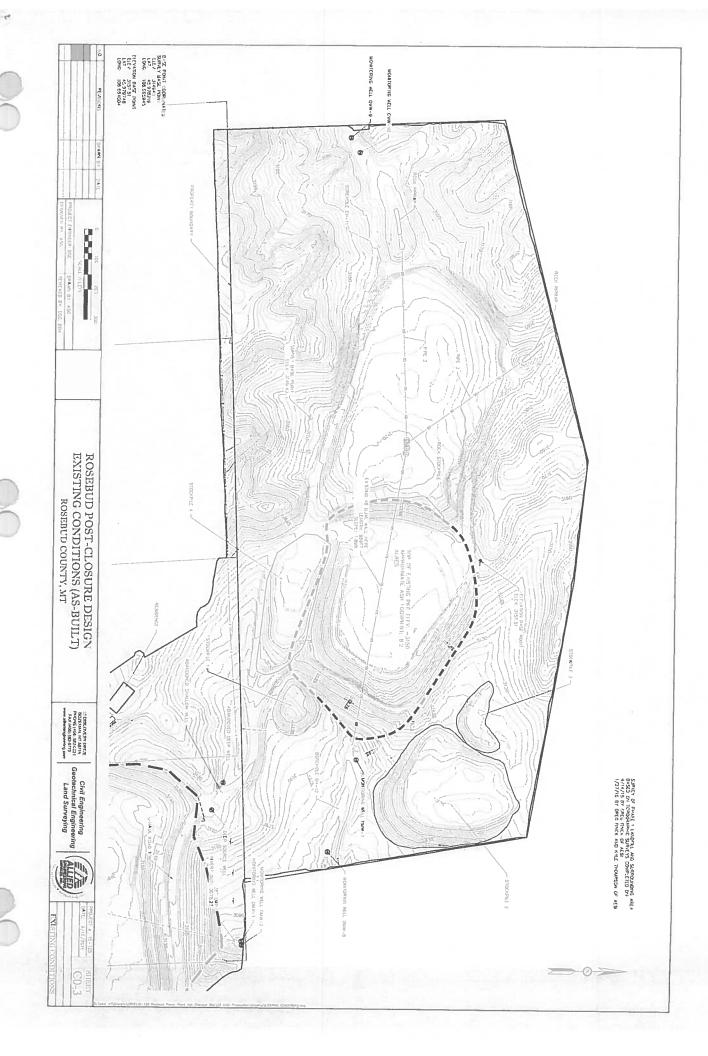
None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)



This inspection was performed by:

////Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: ROSI
INSPECTOR: Joel Zimmorman
DATE & TIME INSPECTED: 1/-17-17
WEATHER (temperature, wind, precipitation): 35°F - 5M/H west wind
ELVACH CTURAGE CITE INSPECTED: Pliase I and 2 of Rosebud Lower Flatte con contents
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
and the state of t
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
1'2' From top of Bern
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10'+ below top of Berms
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection? No: - Allied here this week for Annual Insp
Any Issues From Previous Week/Inspection? 100: 1111 ed here 1918 week for 11 And 1 1 1/3p
If so, note here:
and the state of t
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,
take pictures (include date stamp), and indicate location of pictures on the inspection map.
Run this week - don surface wet - No standing water.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		/	
(2) Any misalignments?		V	
(3) Any cracking?			
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)		1	
(6) Interior Side Slopes (1.5H:1V design)	V		
(7) Height of Berm above Ash Surface (ft)	V		Born of phase of Actua Pit



ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?			
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V.		
(10) Any exposed ash on exterior slope?			
(11) Any visible water pooling or ponding?			
(12) Any visible water/runoff spill			
(13) Pipe Condition?			Good
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at nlet or outlet?			
(17) Other?			No

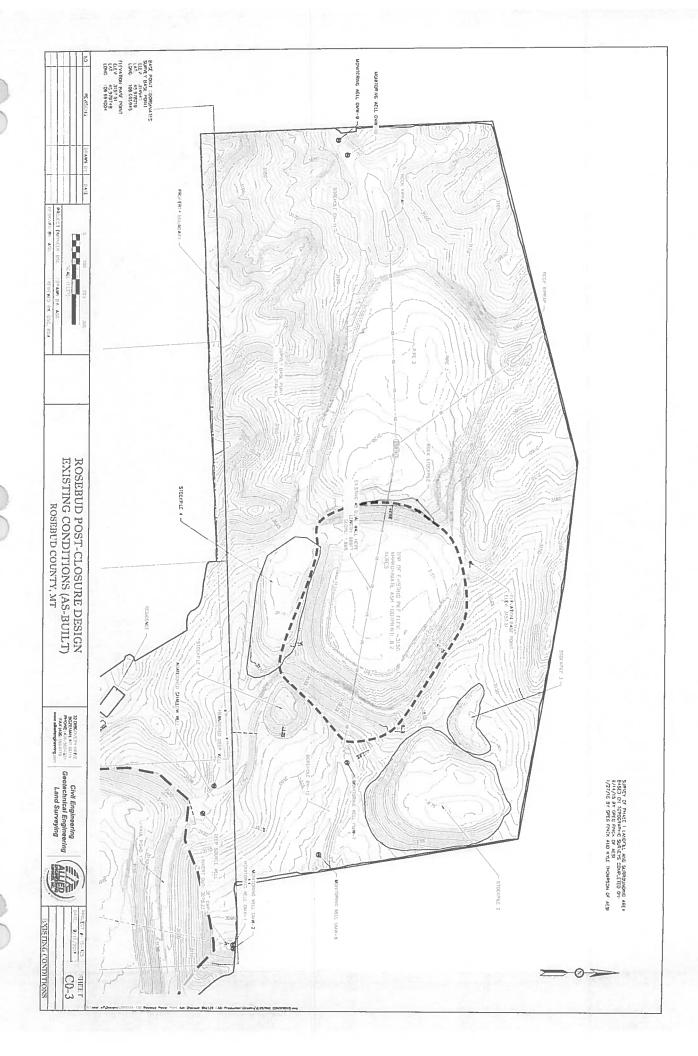
(17) Other:			
B. Amount and Type of Vegetation	n on the Embankment &	Bench Areas	
01			
C. Areas without Vegetation due	to erosion (describe locat	ion and size of area)	
	No		
D. Areas without Vegetation due	to lack of topsoil cover (d	escribe location and size	e of area)
	No		

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:

___ Signature and Date:



OWNER: Colstrip Energy Limited Partnership (CELP)
OPERATOR: Coseland Operating Services Inc. INSPECTOR: Lu Mean I
INSPECTOR:
DATE & TIME INSPECTED: 11 27 17 810
WEATHER (temperature, wind, precipitation):
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10'+ below top of Buns
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
그런 마음을 잃었다면 하는 것이 없었다면 하는 사람들이 사람들이 되었다면 하는 것이 없었다면 하는 것이 없었다.
Any Issues From Previous Week/Inspection?:
If so, note here:
11 30, Hote Herei
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map
take pictures (include date stamp), and indicate location of pictures on the inspection map.
raise biorai en finicione agra against 11 ann anna 12 ann anna 12 ann anna 12 ann ann ann ann ann ann ann ann ann an

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?		/	
(3) Any cracking?			
(4) Any traffic or animal damage?			
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	/		
(6) Interior Side Slopes (1.5H:1V design)	1		
(7) Height of Berm above Ash Surface (ft)	/		1-2 from top bum



ITEM	YES	NO	REMARKS/LOCATION
8) Any Debris, Erosion, or Cracking?		_	
9) Side Slopes meet minimums (3:1 xterior, 1.5:1 interior)?	~		
10) Any exposed ash on exterior slope?		_	
(11) Any visible water pooling or conding?			
(12) Any visible water/runoff spill points?		/	
(13) Pipe Condition?		Ø.	Good
(14) Water flowing from pipe?			6
15) Any pooling or poding at pipe inlet routlet?		V	
(16) Any erosion/undermining of pipe at nlet or outlet?			
(17) Other?			None

ok	
C. Areas without Vegetation due to erosion (describe location and size of area)	
No	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
No	

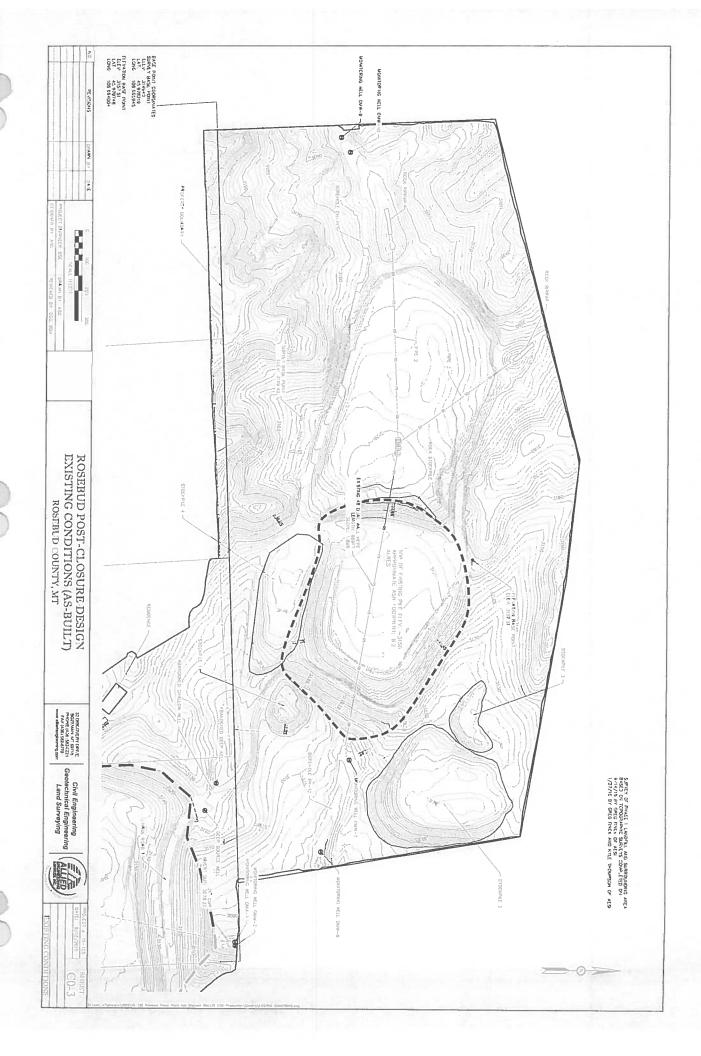
None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

Harlroad Bloded

This inspection was performed by:_____

Signature and Date:



G P

OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: Koseband Operating Services (he INSPECTOR: Land Full 731 WEATHER (temperature, wind, precipitation): /8 F
MDEQ Groundwater Fermit # MTX000032, MDEQ Stormwater Disordings - dismount of the property of
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10 plus from Top of Bonn
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?
Any Issues From Previous Week/Inspection?: If so, note here::

General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, lumps, depressions or bulges?		~	
(2) Any misalignments?		V	
(3) Any cracking?		1	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	1		in'
(6) Interior Side Slopes (1.5H:1V design)	/		
(7) Height of Berm above Ash Surface ft)	/		1'-2'



ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		~	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?		Ø	
(10) Any exposed ash on exterior slope?		v	
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?	,	V	
(13) Pipe Condition?			okuj
(14) Water flowing from pipe?		v	
(15) Any pooling or poding at pipe inlet or outlet?		v	
(16) Any erosion/undermining of pipe at inlet or outlet?		V	
(17) Other?			

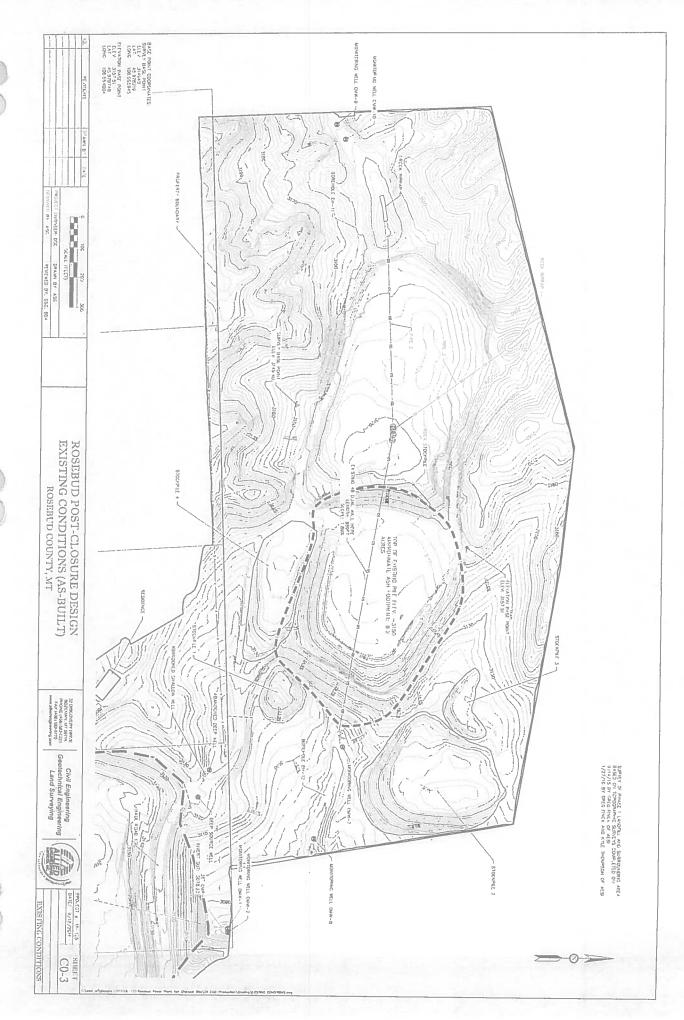
(17) Other?					
B. Amount and Type of Vegetat	ion on the Emba	nkment & Be	nch Areas		
- 11					
OKRY					
C. Areas without Vegetation du	e to erosion (des	cribe locatio	n and size of area	a)	
None					
D. Areas without Vegetation du	e to lack of topso	oil cover (des	cribe location an	id size of area)	
Wh					

light Snow last night

GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS
 (Use additional pages, if necessary, include pictures as needed)

Nont

This inspection was performed by Signal





OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: INSPECTOR: Even Me for land DATE & TIME INSPECTED: 12/8/17 940 WEATHER (temperature, wind, precipitation): FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 1'-2' from Top of bem
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10' plus from Top of bern
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here::
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		/	
(2) Any misalignments?		V	
(3) Any cracking?		V	
(4) Any traffic or animal damage?		~	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	/		good
(6) Interior Side Slopes (1.5H:1V design)	/		OKay
(7) Height of Berm above Ash Surface (ft)			1-2 Top Bam





ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		4	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	ν		
(10) Any exposed ash on exterior slope?		V	
(11) Any visible water pooling or ponding?		V	
(12) Any visible water/runoff spill points?		V	
(13) Pipe Condition?			o Ray
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?			
(16) Any erosion/undermining of pipe at inlet or outlet?		/	
(17) Other?		1000	

_1.24		
oankment & Ben	ch Areas	-2-30
iba lasatian	and sing of area)	
escribe location	and size of area)	
710-13-10-1		
		pankment & Bench Areas escribe location and size of area)

None

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS
(Use additional pages if necessary include pictures as needed)

(Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: Market 12/8/17 Signature and Date:





OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR: INSPECTOR: DATE & TIME INSPECTED: WEATHER (temperature, wind, precipitation): FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill, MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Wibeq Groundwater remine with the second sec
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map,

take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?		U	
(2) Any misalignments?		V	
(3) Any cracking?			
(4) Any traffic or animal damage?		V	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)	v		
(6) Interior Side Slopes (1.5H:1V design)	/		
(7) Height of Berm above Ash Surface (ft)			1-2 FT



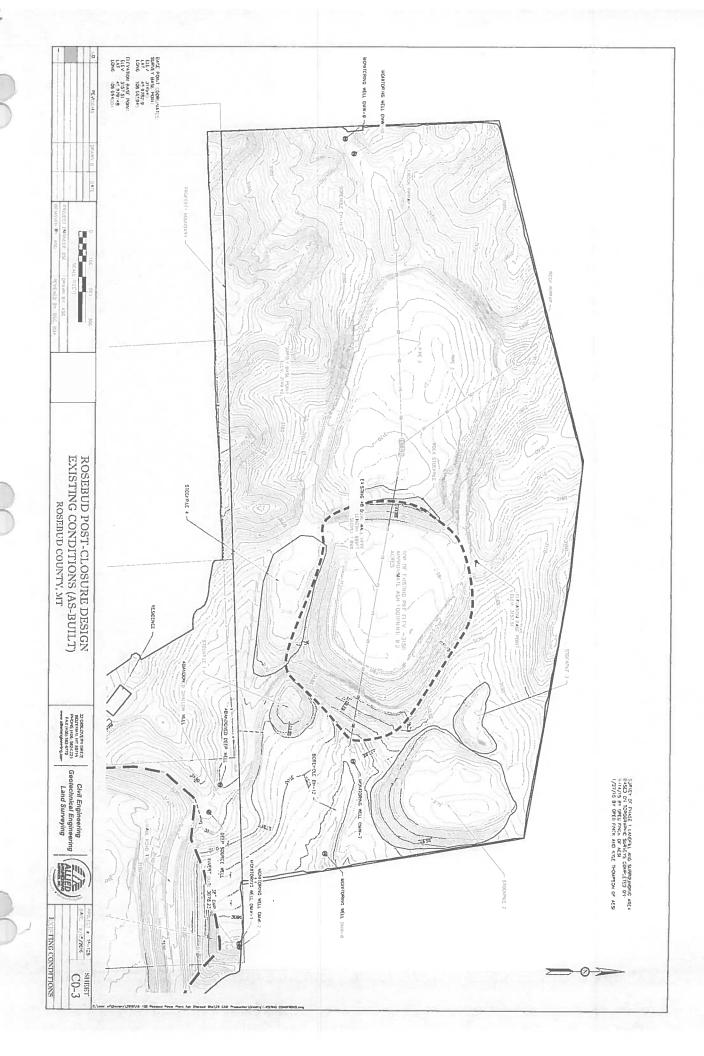
ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		/	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
(10) Any exposed ash on exterior slope?		/	
(11) Any visible water pooling or ponding?		i/	
(12) Any visible water/runoff spill points?		V	
(13) Pipe Condition?			Cood
(14) Water flowing from pipe?		V	=
(15) Any pooling or poding at pipe inlet or outlet?		V	
(16) Any erosion/undermining of pipe at nlet or outlet?		V	
(17) Other?			

B. Amount and T	pe of Vegetatio	n on the Emba	nkment & Be	nch Areas		
-/	7/					
C. Areas without	Vegetation due	to erosion (des	cribe locatio	n and size of a	rea)	
	λ	LONS				
D. Areas without	Vegetation due	to lack of tops	oil cover (des	cribe location	and size of area)	
	No					

NONE

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by:



OWNER: Colstrip Energy Limited Partnership (CELP) OPERATOR:
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement): 1-2 from to hom
Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
10' plase from top of the beim
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to
locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
If so, note here:
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?			
(3) Any cracking?			
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)			
(7) Height of Berm above Ash Surface (ft)		1	1-2'

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		15	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	V		
(10) Any exposed ash on exterior slope?		0	
(11) Any visible water pooling or ponding?		1	
(12) Any visible water/runoff spill points?		1	
(13) Pipe Condition?			okay
(14) Water flowing from pipe?		V	
(15) Any pooling or poding at pipe inlet or outlet?		V	
(16) Any erosion/undermining of pipe at inlet or outlet?		V	
(17) Other?			

Snow Council	
C. Areas without Vegetation due to erosion (describe location and size of area)	
None	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
No	

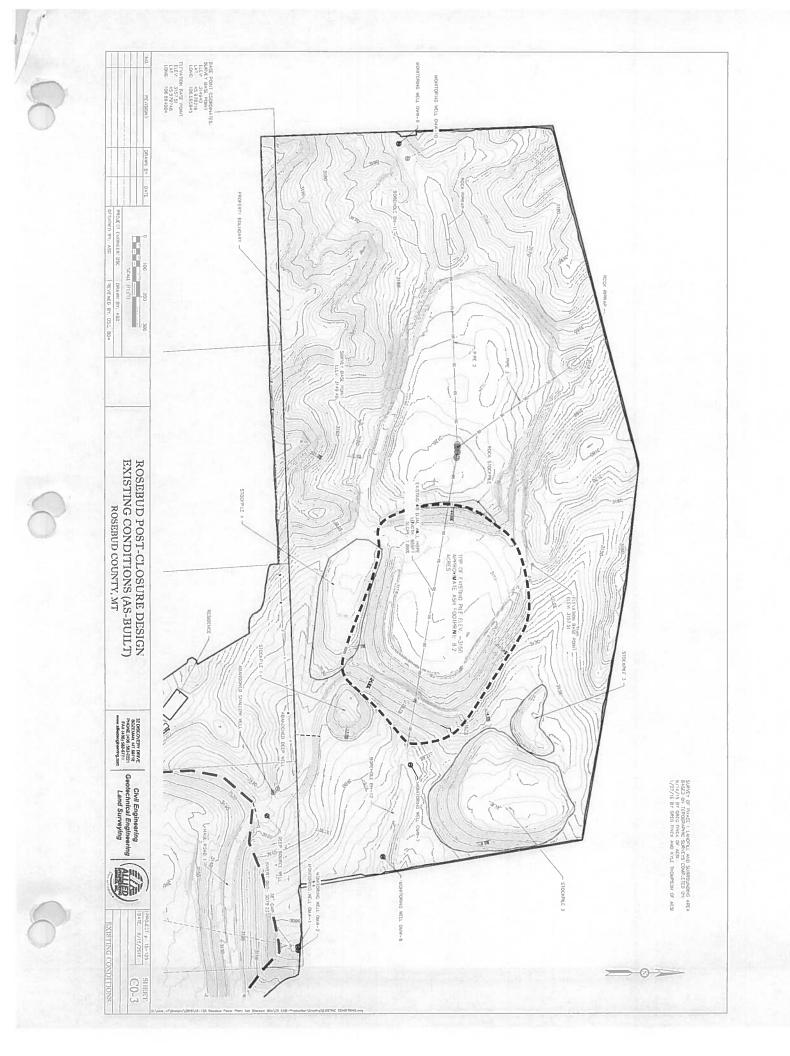
Nowe

B. Amount and Type of Vegetation on the Embankment & Bench Areas

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

Spowed of Cold

This inspection was performed by: Apple 12/26/17
Signature and Date:



OWNER: Colstrip, Energy Limited Partnership (CELP)
OPERATOR: Rosebul apperating Sarvicos, Inc
INSPECTOR: Joel Zimmer man
DATE & TIME INSPECTED: 12/29/17
WEATHER (temperature, wind, precipitation): 1°F - Snow - Wind 13 MPH NW
FLYASH STORAGE SITE INSPECTED: Phase 1 and 2 of Rosebud Power Plant CCR Landfill,
MDEQ Groundwater Permit # MTX000052, MDEQ Stormwater Discharge Permit #MTR000058, SWPPP # PEP-9
Flyash Storage Site Status
Approximate FlyAsh Surface Elevation Phase 1 (feet, describe method of measurement):
1-2 ft Jelow top of Berm Approximate FlyAsh Surface Elevation Phase 2 (feet, describe method of measurement):
about 10 ft below top of berm
This Form Should be Attached to Reference Map, list date of inspection on map along with notations relating to locations of comments/picture indicated below. (Allied Provide insp. Map)
Any Issues From Previous Week/Inspection?: If so, note here:
ii so, iiote liele.
General Instructions: Inspect for the general criteria below. Indicate locations of findings on an inspection map, take pictures (include date stamp), and indicate location of pictures on the inspection map.

1. EMBANKMENT & PIPE

ITEM	YES	NO	REMARKS/LOCATION
(1) Any visual settlement, sloughing, slumps, depressions or bulges?			
(2) Any misalignments?		V	
(3) Any cracking?		/	
(4) Any traffic or animal damage?		/	
(5) Top Width (10-ft design) except at prescribed exterior bench locations (see map)			
(6) Interior Side Slopes (1.5H:1V design)			
(7) Height of Berm above Ash Surface (ft)	/		1-2 to below

ITEM	YES	NO	REMARKS/LOCATION
(8) Any Debris, Erosion, or Cracking?		V	
(9) Side Slopes meet minimums (3:1 exterior, 1.5:1 interior)?	1		
(10) Any exposed ash on exterior slope?		/	
(11) Any visible water pooling or conding?		1	
(12) Any visible water/runoff spill points?		1	
(13) Pipe Condition?			Good
(14) Water flowing from pipe?			
(15) Any pooling or poding at pipe inlet or outlet?		/	5now
(16) Any erosion/undermining of pipe at nlet or outlet?		/	
(17) Other?		V	

Snow Grenal Vegetation	
C. Areas without Vegetation due to erosion (describe location and size of area)	
No	
D. Areas without Vegetation due to lack of topsoil cover (describe location and size of area)	
No	

3. GENERAL INSPECTION COMMENTS / ADDITIONAL COMMENTS AND RECOMMENDATIONS (Use additional pages, if necessary, include pictures as needed)

This inspection was performed by: $\frac{12-29-17}{5}$ Signature and Date:

