Coal Energy Group 2
CEG
Wildcat Load Out

Coal Energy Group 2
6602 Ilex Circle
Naples, Florida 34109

November 25, 2019

Steve Christensen
Permit Supervisor/Hydrologist
Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Re: **Pond C and E inlet modifications, Coal Energy Group 2, LLC, Wildcat Load Out, Carbon County, Utah, C0070033**

Dear Mr. Christensen:

Coal Energy Group 2, LLC (CEG2) is submitting a permit amendment for the Wildcat Loadout in Carbon County. Proposed modifications for the troublesome inlets of Ponds C and E of the Wildcat Loadout have been evaluated and revisions have been made to the applicable parts of the MRP.

Upon approval, 2 (two) clean hard copies of the text and certified drawings for insertion into the MRP will be submitted. Please do not hesitate to contact me if you have any questions 435-691-2983.

Very truly yours,

Larry W. Johnson
Manager

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: Coal Energy Group 2, LLC
Mine: Wildcat Loadout **Permit Number:** C0070033
Title: Pond C and E inlet modifications

Description, Include reason for application and timing required to implement:
Pond C and E inlet modifications

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
☐ Yes ☒ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes ☒ No 6. Does the application require or include public notice publication?
☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
☐ Yes ☒ No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: _____
☐ Yes ☒ No 11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☐ Yes ☒ No 17. Does the application require or include construction, modification, or removal of surface facilities?
☐ Yes ☒ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
☒ Yes ☐ No 19. Does the application require or include certified designs, maps or calculation?
☐ Yes ☒ No 20. Does the application require or include subsidence control or monitoring?
☐ Yes ☒ No 21. Have reclamation costs for bonding been provided?
☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
☐ Yes ☒ No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Larry W. Johnson	Manager	11/25/2019	
Print Name	Position	Date	Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 25th day of November, 2019

Notary Public: Sarah Mench, state of Utah.

My commission Expires: Aug 21, 2022
Commission Number: 701881
Address: 410 N. Main Street Cedar City
City: Cedar City State: UT Zip: 84721

} ss:

SARAH MENCH
Notary Public - State of Utah
Comm. No. 701881
My Commission Expires on
Aug 21, 2022

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining

Form DOGM- C1 (Revised December 10, 2007)

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Coal Energy Group 2, LLC
Mine: Wildcat Loadout
Permit Number: C0070033
Title: Pond C and E inlet modifications

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☐ Add	☒ Replace	☐ Remove	Plate 2A Wildcat Drainage
☐ Add	☒ Replace	☐ Remove	Plate 3C_Pond C Drawing
☐ Add	☒ Replace	☐ Remove	Plate 3E_Pond E Drawing
☒ Add	☐ Replace	☐ Remove	Addendum to Appendix R (add to end of Appendix R)
☐ Add	☐ Replace	☐ Remove	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.	Received by Oil, Gas & Mining

ADDENDUM
TO
APPENDIX R

SEDIMENT PONDS C AND E
INLET MODIFICATIONS

SEDIMENT PONDS C AND E

INLET MODIFICATIONS

COAL ENERGY GROUP 2

WILDCAT LOADOUT

By

Dan W. Guy

Registered Professional Engineer

State of Utah No. 154168

SEDIMENT PONDS C AND E

INLET MODIFICATIONS

General

The inlets to Sediment Ponds C and E that were previously fitted with half-round culverts have been modified to provide more adequate erosion control. The half-round culvert into Pond C has been completely removed and replaced with a rock-armored ditch. The half-round culvert in the lower portion of the inlet into Pond E has also been removed and replaced with a rock-armored ditch. The half-round culvert above has been left in place. The new inlet configurations are shown on Plates 2A, 3C and 3E.

Modifications

Pond C

The half-round culvert inlet into Pond C was completely removed. The ditch was then cleaned out and lined with minus 2" bedding material and then completely armored with 12" minus rock rip-rap. The resulting ditch is 6' – 8' wide at the top and approximately 34" deep, which is considerably larger than the culvert area. The modified area is approximately 51' in length with a slope of 12 degrees.

Pond E

Only the lower portion of the half-round culvert inlet into Pond E has been replaced. This is a relatively small section of approximately 25' in length where the slope steepened and the culvert was being undercut. The modification here was the same as in Pond C above. The culvert was removed and the ditch was cleaned out and reshaped. The ditch was then lined with the minus 2" bedding material and then armored with the 12" minus rock rip-rap. The rip-rapped ditch is 6' – 8' wide at the top and approximately 30" deep, which is also larger than the previous culvert area. The modified area here is approximately 25' in length with a slope of 20 degrees.

Evaluation

The resulting ditch sizes are considerably larger than the previously approved culvert inlet areas and are therefore considered to be more than adequate; however, the rip-rap

sizing has been evaluated for each of the pond areas to determine if the stone size is adequate for the calculated flows.

Pond C

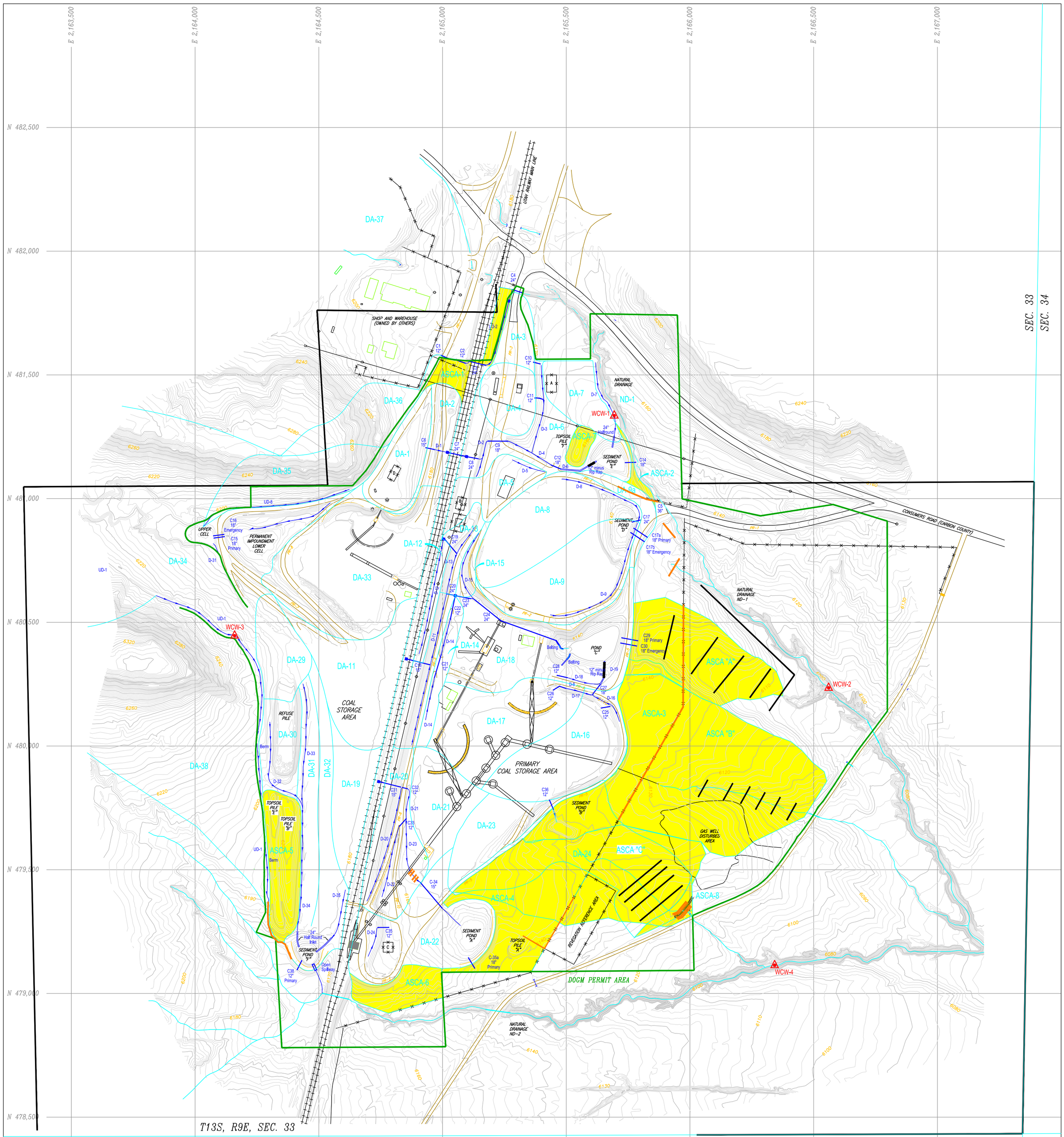
The inflow from a 10 yr. / 24 hr. storm event for this inlet is calculated to be 11.14 cfs with a flow velocity of 6.76 fps, as shown for Ditch D-19 on Table 6 of Appendix R. This flow was checked against the Rip-Rap Chart – Figure 2 in Appendix R. Using a worst-case scenario of 1:1 side slopes and the flow velocity of 6.76 fps, the rip-rap size should be approximately 8". The 12" minus material used is therefore considered adequate to resist displacement.

Pond E

The inflow from a 10 yr. / 24 hr. storm event for this inlet is calculated to be 7.77 cfs with a flow velocity of 6.07 fps, as shown for Ditch D-6 on Table 6 of Appendix R. This flow was also checked against the Rip-Rap Chart as mentioned above. Using the worst-case scenario of 1:1 side slopes and the flow velocity of 6.07 fps, the rip-rap size should be approximately 6". The 12" minus material used is also considered adequate to resist displacement in this modified inlet.

Conclusion

The modified sections of each of the inlets described above for both Sediment Ponds C and E have considerably larger cross-sectional areas than the previous culvert sections. In addition, an evaluation of each of the rip-rapped sections using the calculated flows from a 10 yr. / 24 hr. storm event shows the stone size to be adequate to resist displacement.



T13S, R9E, SEC. 33

T14S, R9E, SEC. 4

BLM RIGHT-OF-WAY (U-48027)

LEGEND:

- DOGM PERMIT AREA:
- BLM RIGHT-OF-WAY (U-48027):
- PRIMARY ROAD: PR-1
- FENCE LINE:
- CULVERT (CMP):
- DITCH:
- HALF-ROUND (CMP):
- WATER MONITORING STATION: WCW-3
- DRAINAGE AREA:
- ASCA AREA:
- EXISTING SEDIMENT CONTROLS

NOTE:

SEE PLATE 15 FOR EXTENDED WATERSHEDS.

N

0 150 300

EXISTING ASCA'S

EXISTING ASCA-1 – 0.76 ACRES – TREATMENT – VEGETATION
EXISTING ASCA-2 – 0.15 ACRES – TREATMENT – VEGETATION
EXISTING ASCA-3 – 2.32 ACRES – TREATMENT – STRAW BALES/EXCELSIOR LOGS & VEGETATION
EXISTING ASCA-4 – 2.73 ACRES – TREATMENT – STRAW BALES/EXCELSIOR LOGS & VEGETATION
EXISTING ASCA-5 – 1.71 ACRES – TREATMENT – BERMS, STRAW BALES/EXCELSIOR LOGS & VEGETATION
EXISTING ASCA-6 – 1.08 ACRES – TREATMENT – VEGETATION
EXISTING ASCA-7 – 0.30 ACRES – TREATMENT – BERM & VEGETATION
EXISTING ASCA-A – 3.62 ACRES – TREATMENT – EXCELSIOR LOGS & VEGETATION
EXISTING ASCA-B – 6.84 ACRES – TREATMENT – EXCELSIOR LOGS & VEGETATION
EXISTING ASCA-C – 6.43 ACRES – TREATMENT – EXCELSIOR LOGS & VEGETATION

EXCELSIOR LOGS FOR SEDIMENT CONTROL (Quantities & locations may vary)

UTAH REGISTERED #154168 DAN W. GUY PROFESSIONAL ENGINEER

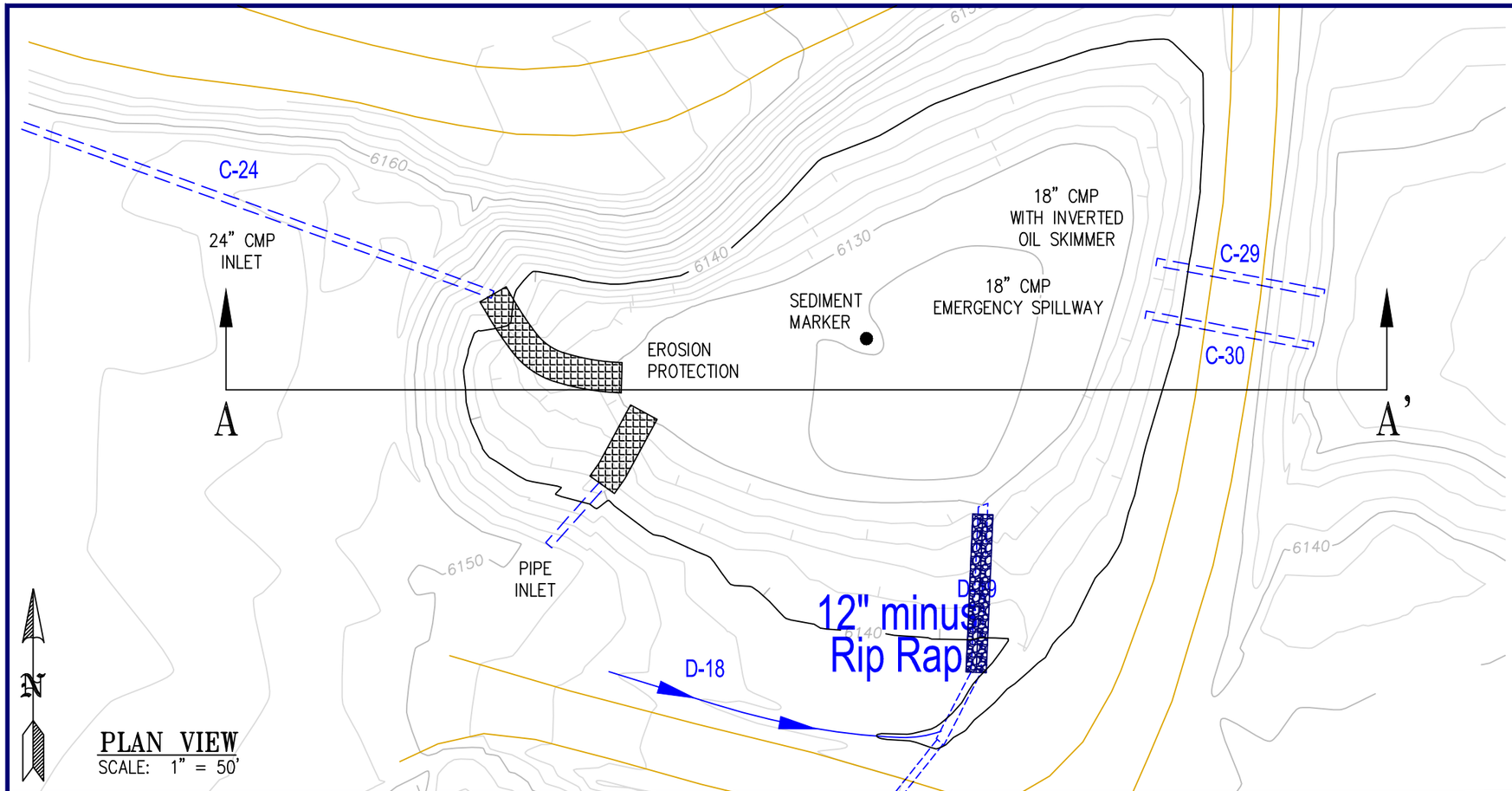
I, Dan W. Guy, a Registered Professional Engineer, State of Utah No. 15168, do hereby certify that the modifications to the inlets of Sediment Ponds C and E shown on this revision 6, are true and accurate to the best of my knowledge.

CONTOUR INTERVAL – 2'
PHOTOGRAPHY DATE: 10/22/2006

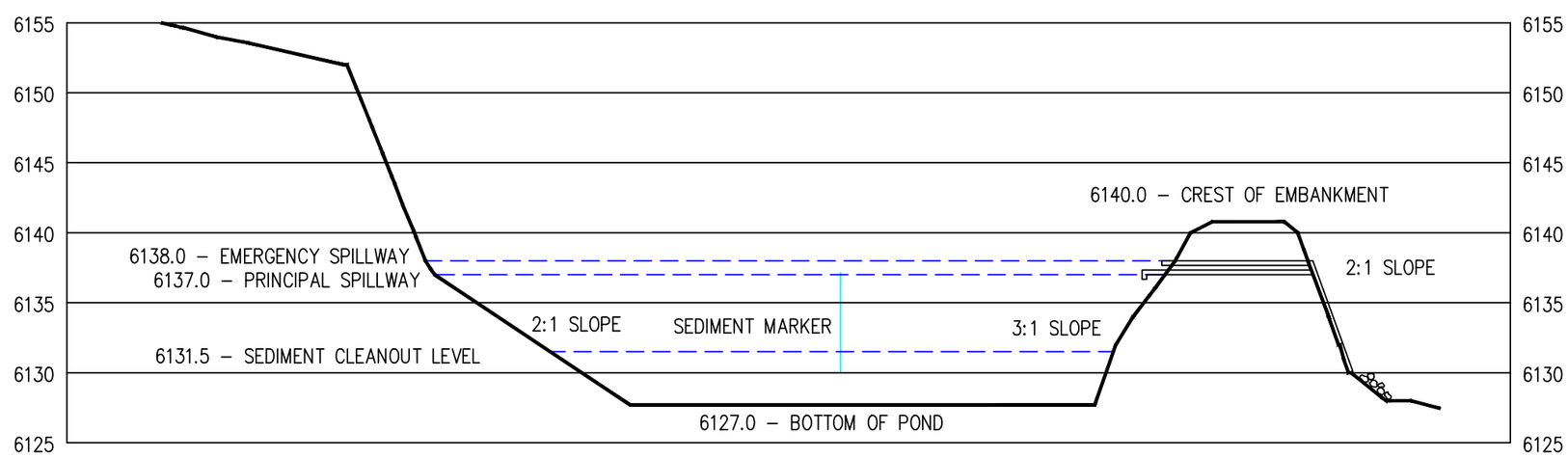
COAL ENERGY GROUP 2

WILDCAT LOADOUT
PLATE 2A
DRAINAGE MAP

REVISION NUMBER: 6	SCALE:
DATE: NOVEMBER 2019	PLATE 2A



PLAN VIEW
SCALE: 1" = 50'



SECTION A–A'
VERTICAL EXAGGERATION 5X

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

STAGE VOLUME
SEDIMENT POND "C"

ITEM	ELEVATION	VOLUME (Ac. Ft.)
CREST OF EMBANKMENT	6140.0	7.724
EMERGENCY SPILLWAY	6138.0	5.803
PRINCIPAL SPILLWAY	6137.0	4.955
SEDIMENT CLEANOUT LEVEL	6131.5	1.421
POND BOTTOM	6127.0	0

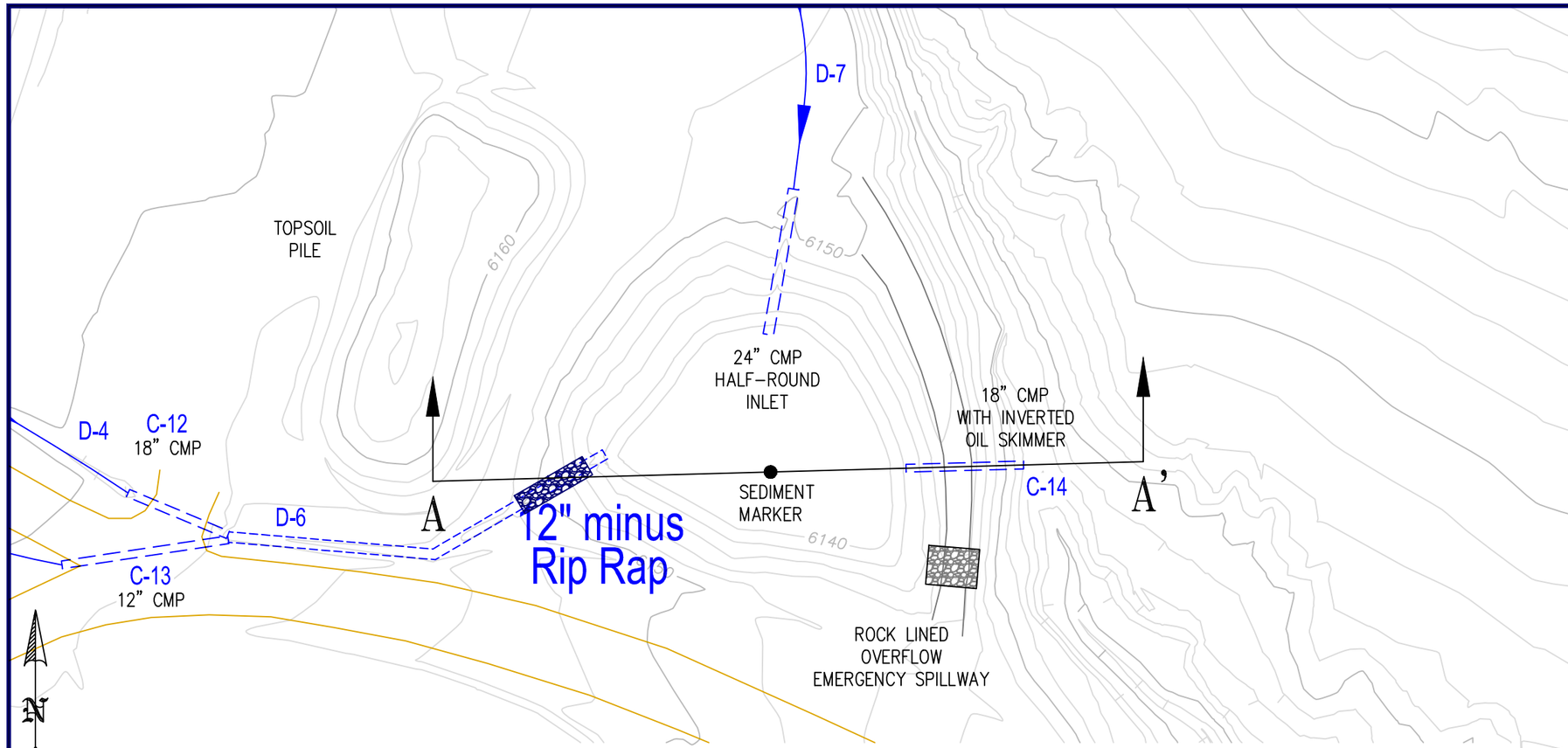
VOLUME:

REQUIRED: 1.836 Ac. Ft.
EXISTING: 4.955 Ac. Ft.

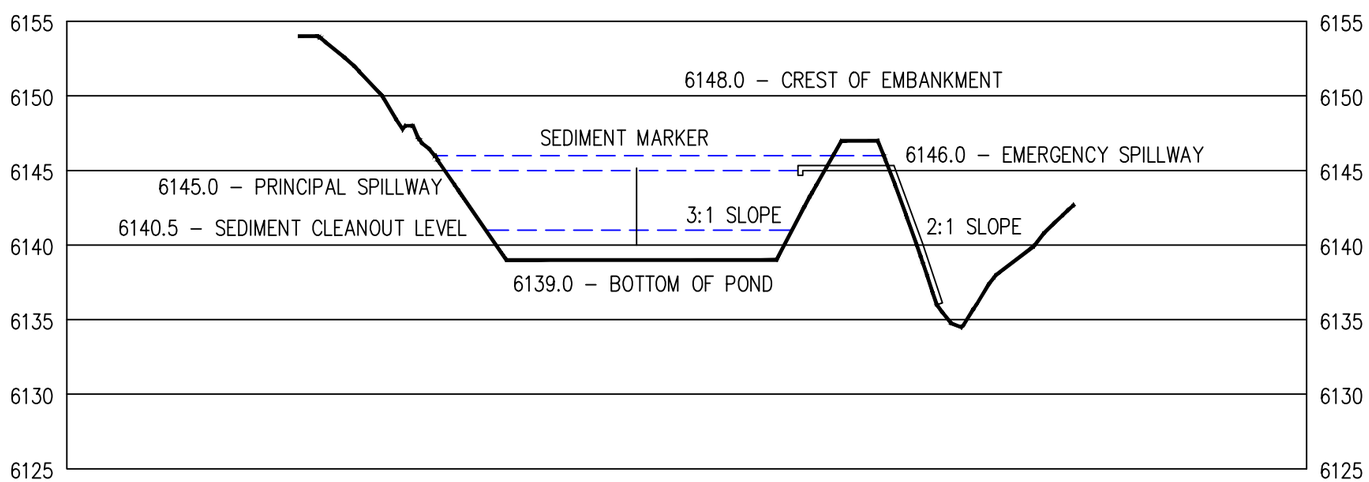
COAL ENERGY GROUP 2

WILDCAT LOADOUT
SEDIMENT POND "C"
EXISTING

REVISION NUMBER: 3	SCALE: AS SHOWN
DATE: NOVEMBER 2019	PLATE 3C



PLAN VIEW
SCALE: 1" = 50'



SECTION A–A'
VERTICAL EXAGGERATION 5X

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

STAGE VOLUME
SEDIMENT POND "E"

ITEM	ELEVATION	VOLUME (Ac. Ft.)
CREST OF EMBANKMENT	6148.0	2.023
EMERGENCY SPILLWAY	6146.0	1.372
PRINCIPAL SPILLWAY	6145.0	1.092
SEDIMENT CLEANOUT LEVEL	6140.5	0.184
POND BOTTOM	6139.0	0

VOLUME:

REQUIRED: 1.028 Ac. Ft.
DESIGNED: 1.092 Ac. Ft.

COAL ENERGY GROUP 2

WILDCAT LOADOUT
SEDIMENT POND "E"
EXISTING

REVISION NUMBER: 3	SCALE: AS SHOWN
DATE: NOVEMBER 2019	PLATE 3E