



OGMCOAL DNR <ogmcoal@utah.gov>

RE: 4th Quarter 2014 Coal Fines Monitoring Report for Wildcat Loadout

Kit Pappas <kit@emerytelcom.net>

Tue, Jan 27, 2015 at 9:39 AM

To: Pete Hess <petehess@utah.gov>, ogmcoal@utah.gov

Pete, as per your request.

Thanks,

Kit

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From: Pete Hess [mailto:petehess@utah.gov]

Sent: Friday, January 23, 2015 10:13 AM

To: Kit Pappas

Subject: 4th Quarter 2014 Coal Fines Monitoring Report for Wildcat Loadout

Please forward to the Division when you can.

Thanks.

No virus found in this message.

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1/28/2015

Mail - RE: 4th Quarter 2014 Coal Fines Monitoring Report for Wildcat Loadout



4th QT 2014 Coal Fines Report.pdf

7161K

**WILDCAT COAL FINES ISSUE
DIVISION ORDER-04 (WIND BLOWN FINES)
FOURTH QUARTER 2014**

December 29, 2014

Prepared for:

WILD WEST EQUIPMENT & HAULING, LLC



Prepared by:

**J. T. Paluso, P.E.
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INTRODUCTION

The purpose of this report is to provide quarterly information on coal fines accumulation at the Wildcat Loadout as described in Appendix P, Response to Division Order DO-04 (Wind Blown Fines), Page 7, “Conduct future monitoring of wind-blown fines”. The coal fines monitoring procedure was revised as per DOGM’s meeting at Wildcat conducted on January 23, 2014.

PROCEDURE

On December 9, 2014, I conducted the 4th Quarter coal fines monitoring procedure at the Wildcat Loadout. New monitoring points were installed during the first quarter of 2014. The new procedure was described in a memo sent to Pete Hess (DOGM) dated March 13, 2014. This new procedure described the method for future coal fines and vegetation monitoring at the Wildcat Loadout. The approved procedure required the installation of new monitoring points within the permit boundary and also outside of the permit boundary. Monitoring of vegetation growth will now be conducted only during the second quarter of each year.

There are now 21 sampling points on the north area and 16 sampling points on the south area. Figure 1 shows the sampling points and Figure 2 shows the areas that are of concern. Each point was located with a GPS. Refer to Appendix 1 for the GPS coordinate location of each point.

The depth of coal fines were measured at the stake. These measurements can be found on the Ground Cover Information Spreadsheet in Appendix 2. The average coal depth for the North and South area was calculated and is also shown on this sheet.

CONCLUSION

The results of the coal fines measurements indicated that the coal fines are still more extensive on the north sampling area. The fines average 0.51 inches on the north area compared to 0.22 inches on the southern area. The average coal depth on the northern area increased from 0.38 inches to 0.51 inches. Site N9 had coal fines to a depth of 4.5 inches. The southern area increased slightly from 0.19 to 0.22 inches.

Vegetation reclamation work conducted in the spring of 2014 still has not produced much new vegetation. This reclamation work was to re-establish vegetation after coal fines greater than 4 inches were removed. These reclaimed areas have developed a hard crust. The hard crust is making it difficult for new vegetation to start growing.

The new wind fences installed in the spring seemed to have helped controlled the accumulation of coal fines in the north and south areas.

APPENDIX 1
GPS COORDINATE LOCATION

Wildcat Loadout
Random Photograph Site Coordinates

All Coordinates in NAD 83

| Name | Northing | Easting |
|-------------|-----------------|----------------|
| N1 | 4388883.298 | 507251.984 |
| N2 | 4388857.593 | 507250.164 |
| N3 | 4388817.239 | 507234.904 |
| N4 | 4388787.278 | 507246.718 |
| N5 | 4388751.355 | 507276.069 |
| N6 | 4388942.709 | 507259.085 |
| N7 | 4388724.731 | 507187.675 |
| N8 | 4388911.456 | 507321.233 |
| N9 | 4388817.19 | 507263.082 |
| N10 | 4388856.487 | 507278.12 |
| N11 | 4388882.392 | 507227.824 |
| N12 | 4388887.813 | 507289.428 |
| N13 | 4388600.376 | 507323.119 |
| N14 | 4388580.381 | 507311.915 |
| N15 | 4388560.83 | 507300.496 |
| N16 | 4388540.265 | 507287.518 |
| N17 | 4388877.752 | 507384.593 |
| N18 | 4388775.637 | 507220.054 |
| N19 | 4388749.681 | 507187.688 |
| N20 | 4388930.365 | 507290.383 |
| N21 | 4388877.752 | 507384.593 |
| S1 | 4388730.197 | 507148.488 |
| S2 | 4388707.485 | 507124.338 |
| S3 | 4388675.136 | 507091.473 |
| S4 | 4388657.906 | 507120.464 |
| S5 | 4388641.241 | 507149.536 |
| S6 | 4388662.058 | 507162.426 |
| S7 | 4388684.104 | 507143.486 |
| S8 | 4388686.032 | 507175.9 |
| S9 | 4388654.465 | 507224.755 |
| S10 | 4388623.652 | 507270.843 |
| S11 | 4388673.547 | 507267.177 |
| S12 | 4388687.237 | 507220.312 |
| S13 | 4388625.264 | 507215.195 |
| S14 | 4388596.345 | 507239.016 |
| S15 | 4388742.365 | 507417.549 |
| S16 | 4388769.154 | 507340.304 |

APPENDIX 2

GROUND COVER INFORMATION SPREADSHEET & FIELD WORK SHEETS

| GROUND COVER INFORMATION SPREADSHEET | | | | | | | | |
|--------------------------------------|------------|-------------|---------|-------------|------------|-------------|-----------------|--|
| 4th QUARTER 2014 | | | | | | | | |
| LOCATION | VEGETATION | VEGETATION | SOIL | SOIL | COAL FINES | COAL FINES | COAL FINES (IN) | COMMENTS |
| | SQUARES | (COVER %) | SQUARES | (COVER %) | SQUARES | (COVER %) | AT STAKE | |
| N1 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| N2 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N3 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N4 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N5 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N6 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N7 | | 0.00 | | 0.00 | | 0.00 | 2.00 | |
| N8 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N9 | | 0.00 | | 0.00 | | 0.00 | 4.50 | Water flows to this low spot |
| N10 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N11 | | 0.00 | | 0.00 | | 0.00 | 1.00 | |
| N12 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N13 | | 0.00 | | 0.00 | | 0.00 | 0.25 | Trace amounts are recorded as 0.00 depth |
| N14 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| N15 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| N16 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N17 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| N18 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| N19 | | 0.00 | | 0.00 | | 0.00 | 3.00 | |
| N20 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| N21 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| AVERAGE | | 0.00 | | 0.00 | | 0.00 | 0.51 | |
| S1 | | 0.00 | | 0.00 | | 0.00 | 3.00 | Signs of past water flows |
| S2 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth (Water Flows) |
| S3 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| S4 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| S5 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| S6 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| S7 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| S8 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| S9 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth (Water Flows) |
| S10 | | 0.00 | | 0.00 | | 0.00 | 0.00 | Trace amounts are recorded as 0.00 depth |
| S11 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| S12 | | 0.00 | | 0.00 | | 0.00 | 0.50 | |
| S13 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| S14 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| S15 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| S16 | | 0.00 | | 0.00 | | 0.00 | 0.00 | |
| AVERAGE | | 0.00 | | 0.00 | | 0.00 | 0.22 | |

APPENDIX 3
PHOTOGRAPHS



N1



N2



N3



N4



N5



N6



N7



N8



N9



N10



N11



N12



N13



N14



N15



N16



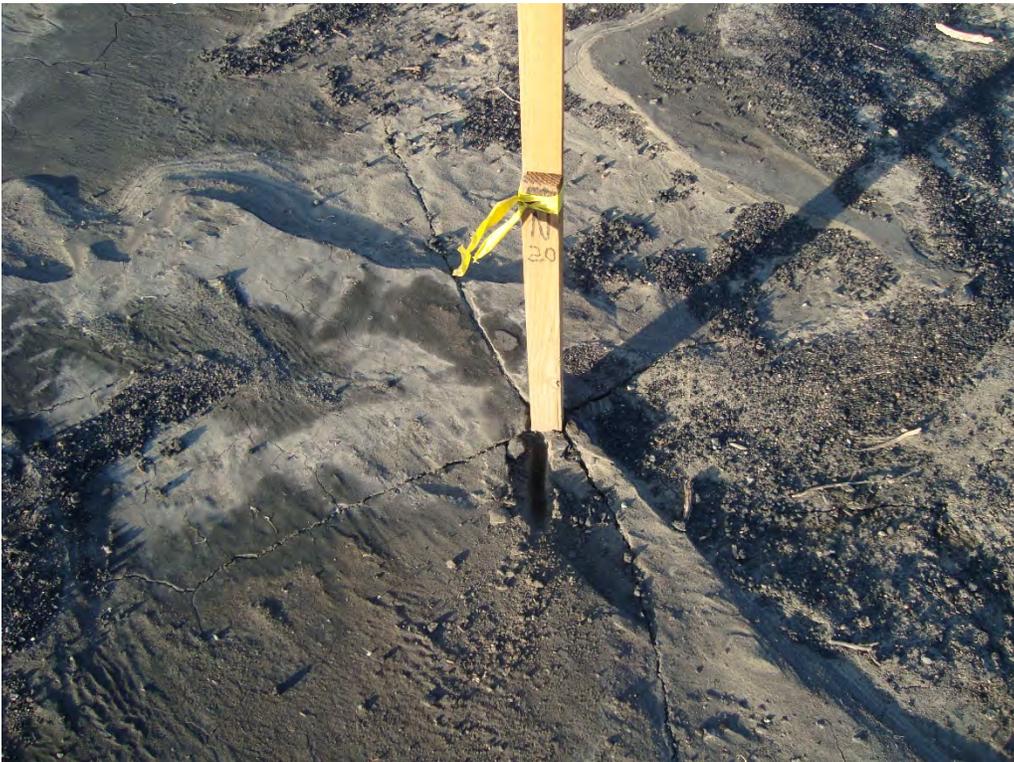
N17



N18



N19



N20



N21



S1



S2



S3



S4



S5



S6



S7



S8



S9



S10



S11



S12



S13



S14



S15



S16