

Peabody Sage Creek Mining, LLC

**Peabody Sage Creek Mine** 

PO Box 250 36600 Routt County Road 27 Hayden, CO. 81639

October 05, 2022

Tabetha Lynch Colorado Division of Reclamation, Mining and Safety 1313 Sherman St., Room 215 Denver, CO 80203

RE: 3rd Quarter and Annual Pond Inspections – Sage Creek Mine (C 2009-087)

Ms. Lynch:

Enclosed are the 3<sup>rd</sup> quarter 2022 and Annual pond inspection reports for the Peabody Sage Creek Mine. I personally inspected each pond and have provided a Professional Engineer's Statement on the following page of this letter to accompany the inspection reports. Please contact me if there are any questions or if you need any additional information.

Best Regards,

Miranda Kawcak

**Environmental Manager** 

Peabody, Colorado Operations

Miranda Kawcak

## Attachments:

Professional Engineer Certification (Miranda Lynn Kawcak, P.E.) Inspection Reports

## **CERTIFICATION**

I, Miranda Lynn Kawcak, a registered engineer in the State of Colorado do hereby certify that I have reviewed the attached Sage Creek Mine Sediment Pond Reports covering the third quarter of 2022, and that they are true and correct to the best of my knowledge and belief.

| Miranda Kawcak                           | 10/05/2022 |
|--|------------|
| Miranda Lynn Kawcak<br>CO P.E. No. 59419 | Date       |



|      | PERIODIC INSPECTION FORM: Water, Se  | diment, or Slurry Impoundr   | nents     |           |     |
|------|--|------------------------------|-----------|-----------|-----|
| INS  |  | DATE: 9/14/2022              |           |           |     |
| NPI  | DES I.D. NO.: CO-0048275 D.P. 002  |                              |           |           |     |
| FAC  | CILITY CONFIGURATION: Incised Pond   | DATE LAST INSPECTION: 6/2    | 21/2022   |           |     |
| SITI | E NAME: Wadge Impoundment #002   | LOCATION: NW¼ NE¼, Sec.      | 2, T5N, R | 187W      |     |
| MIN  | NE NAME: Peabody Sage Creek Mine   | LOCATION: 7.1 mi. SE of Hay  | yden, CO  |           |     |
| MIN  | NE I.D. NO.: CMLRD Permit No. C-2009-087                                     | OWNER'S REP.: Miranda Ka     | wcak      |           |     |
|      | CIRCLE OR WRITE IN APPROPRIATE RESP  | ONSE:                        | YES       | NO        | N/A |
| 1    | Foundation preparation (removal of vegetation, stumps, tops                  | oil:                         |           |           | х   |
| 2    | Lift thickness:  |                              |           |           | х   |
| 3    | Compaction according to approved plan:                                       |                              |           |           | х   |
| 4    | Burning (specify extent and location):                                       |                              |           |           | х   |
| 5    | Angle of slope:upstream,downstream   |                              | Tot       | tal = N/A |     |
| 6    | *Seepage (specify location, color, and approximate volume)                   |                              |           |           |     |
|      | From underdrain pipes  |                              |           |           | х   |
|      | At isolated points on embanckement slopes                                    |                              |           |           | х   |
|      | At natural hillside:   |                              |           |           | х   |
|      | Over widespread areas:   |                              |           |           | х   |
|      | From downstream foundation area:   |                              |           |           | х   |
|      | "Boils" beneath stream or ponded water:                                      |                              |           | x         |     |
| 7    | Cracks or scarps on crest:   |                              |           |           | х   |
| 8    | Cracks or scarps on slope:   |                              |           |           | х   |
| 9    | Sloughing or bulging on slope:   |                              |           |           | х   |
| 10   | *Major erosion problems:   |                              |           | x         |     |
| 11   | Surface movements in valley bottom or on hillside:                           |                              |           | x         |     |
| 12   | *Erosion of toe:   |                              |           |           | х   |
| 13   | *Water impounded against toe:  |                              |           |           | х   |
| 14   | Existing embankment freeboard = <b>0 feet</b>                                |                              |           |           |     |
| 15   |  | <u>Same</u>                  |           |           | -   |
|      | Cracks, bulging, or erosion on upstream face:                                |                              |           |           | х   |
|      | Visible sumps or sinkholes in slurry surface:                                |                              |           |           | х   |
| 18   | 35 5   |                              |           |           | _   |
|      | Spillway channels and pipes:   |                              |           | х         |     |
|      | Decant system:   |                              |           |           | х   |
|      | Diversion ditches:   |                              |           | x         |     |
| 19   | *Cracking or crushing of pipes   |                              |           |           | _   |
|      | Spillway pipes:  |                              |           |           | х   |
|      | Decant system:   |                              |           |           | х   |
|      | Trash racks clear and in place:  |                              |           |           | х   |
|      | Discharge rate (gpm) = ~20   |                              |           |           |     |
|      | ajor adverse changes in these items could cause instability and              |                              |           |           | er  |
|      | Mine Superintendent for further evaluation. Adverse condition                |                              |           |           | • _ |
|      | cribed (extextent, location, volume, etc.) here: Flume needs so<br>der flume | saled with pentonite to stop | water ir  | om tiow   | ıng |
| unu  | ier nume   |                              |           |           |     |
|      |  |                              |           |           |     |

|                              | PERIODIC INSPECTION FORM: Water, Se  |  | nents     |           |     |
|------------------------------|--|--|-----------|-----------|-----|
|                              | PECTOR'S NAME: Miranda Kawcak  | DATE: 9/14/2022  |           |           |     |
|                              | DES I.D. NO.: CO-0048275 D.P. 003  |  |           |           |     |
|                              | CILITY CONFIGURATION: Diked Pond   | DATE LAST INSPECTION: 6/2                                      |           | 20714     |     |
|                              | NAME: Wadge Impoundment #003   | LOCATION: SE¼ SW¼, Sec. 2                                      |           |           |     |
|                              | NE NAME: Peabody Sage Creek Mine   | LOCATION: 7.1 mi. SE of Hav                                    | -         |           |     |
| IVIII                        | NE I.D. NO.: CMLRD Permit No. C-2009-087   | OWNER'S REP.: Miranda Ka                                       |           |           | 1   |
|                              | CIRCLE OR WRITE IN APPROPRIATE RESP  |  | YES       | NO        | N/A |
|                              | Foundation preparation (removal of vegetation, stumps, tops  | OII:   | Х         |           |     |
|                              | Lift thickness = 12 inches   | 1  |           |           |     |
| 3                            | Compaction according to approved plan:   |  | х         |           |     |
|                              | Burning (specify extent and location):   |  |           | X         |     |
|                              | Angle of slope: 2:1 upstream, 3:1 downstream   |  | 10        | tal = 5:1 |     |
| 6                            | *Seepage (specify location, color, and approximate volume)   | 1  |           |           |     |
|                              | From underdrain pipes  |  |           |           | Х   |
|                              | At isolated points on embanckement slopes  |  |           | Х         |     |
|                              | At natural hillside:   |  |           | Х         |     |
|                              | Over widespread areas:   |  |           | Х         |     |
|                              | From downstream foundation area:   |  |           | Х         |     |
|                              | "Boils" beneath stream or ponded water:  |  |           | X         |     |
|                              | Cracks or scarps on crest:   |  |           | Х         |     |
| 8 Cracks or scarps on slope: |  |  | Х         |           |     |
|                              | Sloughing or bulging on slope:   |  |           | х         |     |
| 10                           | *Major erosion problems:   |  |           | X         |     |
|                              | Surface movements in valley bottom or on hillside:   |  |           | x         |     |
| 12                           | *Erosion of toe:   |  |           | х         |     |
| 13                           | *Water impounded against toe:  |  |           | x         |     |
| 14                           | Existing embankment freeboard (4.9' is normal) = 5.4'  |  |           |           |     |
| 15                           | Increase Decrease in water level: <u>Same</u>  |  |           |           |     |
|                              | Cracks, bulging, or erosion on upstream face:  |  |           | х         |     |
| 17                           | Visible sumps or sinkholes in slurry surface:  |  |           |           | х   |
| 18                           | *Clogging  |  |           |           |     |
|                              | Spillway channels and pipes:   |  |           | x         |     |
|                              | Decant system:   |  |           |           | х   |
|                              | Diversion ditches:   |  |           | x         |     |
| 19                           | *Cracking or crushing of pipes   |  |           |           |     |
|                              | Spillway pipes:  |  |           |           | х   |
|                              | Decant system:   |  |           |           | х   |
| 20                           | Trash racks clear and in place:  |  | х         |           |     |
| 21                           | Discharge rate (gpm) = 0 gpm   |  |           |           |     |
| ana<br>des                   | ajor adverse changes in these items could cause instability and<br>Mine Superintendent for further evaluation. Adverse condition<br>Cribed (extextent, location, volume, etc.) here: Rodent burrow<br>Cintenance. Weir needs replaced, still operable by hand but sh | ns noted in these items shou<br>is need to occasionally be fil | ıld norma | Illy be   | ger |

|      | PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments   |                            |          |          |     |
|------|---|----------------------------|----------|----------|-----|
| INS  | PECTOR'S NAME: Miranda Kawcak   | DATE: 9/14/2022            |          |          |     |
| NPI  | DES I.D. NO.: N/A   |                            |          |          |     |
| FAC  | CILITY CONFIGURATION: Incised Pond  | DATE LAST INSPECTION: 6/2  | 1/2022   |          |     |
| SITE | E NAME: Spill Control Pond #2   | LOCATION: NW¼ NE¼, Sec.    | 34, T6N, | , R87W   |     |
| MIN  | NE NAME: Peabody Sage Creek Mine  | LOCATION: 7.1 mi. SE of Ha | yden, CC | )        |     |
| MIN  | NE I.D. NO.: CMLRD Permit No. C-2009-087  | OWNER'S REP.: Miranda Kav  | wcak     |          |     |
|      | CIRCLE OR WRITE IN APPROPRIATE RESP   | ONSE:                      | YES      | NO       | N/A |
| 1    | Foundation preparation (removal of vegetation, stumps, tops   | oil:                       | х        |          |     |
| 2    | Lift thickness = <b>N/A</b>   |                            |          |          |     |
| 3    | Compaction according to approved plan:  |                            |          |          | х   |
| 4    | Burning (specify extent and location):  |                            |          |          | х   |
| 5    | Angle of slope:upstream,downstream  |                            |          | N/A      |     |
| 6    | *Seepage (specify location, color, and approximate volume)  |                            |          |          |     |
|      | From underdrain pipes   |                            |          |          | х   |
|      | At isolated points on embanckement slopes   |                            |          | х        |     |
|      | At natural hillside:  |                            |          | х        |     |
|      | Over widespread areas:  |                            |          | х        |     |
|      | From downstream foundation area:  |                            |          | х        |     |
|      | "Boils" beneath stream or ponded water:   |                            |          | х        |     |
| 7    | Cracks or scarps on crest:  |                            |          | х        |     |
| 8    | Cracks or scarps on slope:  |                            |          | х        |     |
| 9    | Sloughing or bulging on slope:  |                            |          | х        |     |
| 10   | *Major erosion problems:  |                            |          | х        |     |
|      | Surface movements in valley bottom or on hillside:  |                            |          | х        |     |
| 12   | *Erosion of toe:  |                            |          | х        |     |
| 13   | *Water impounded against toe:   |                            |          | х        |     |
| 14   | Existing embankment freeboard (7.0' is normal) = 7.0'   |                            |          |          |     |
| 15   |   |                            |          |          |     |
|      | Cracks, bulging, or erosion on upstream face:   |                            |          | х        |     |
| 17   | Visible sumps or sinkholes in slurry surface:   |                            |          |          | х   |
| 18   | *Clogging   |                            |          |          |     |
|      | Spillway channels and pipes:  |                            |          | х        |     |
|      | Decant system:  |                            |          | <u> </u> | х   |
|      | Diversion ditches:  |                            |          | <u> </u> | х   |
| 19   | *Cracking or crushing of pipes  |                            |          |          | _   |
|      | Spillway pipes:   |                            |          | <u> </u> | х   |
|      | Decant system:  |                            |          | <u> </u> | х   |
|      | Trash racks clear and in place:   |                            |          | <u> </u> | х   |
|      | Discharge rate (gpm) = <b>0</b>   |                            |          |          |     |
| ana  | ajor adverse changes in these items could cause instability and did Mine Superintendent for further evaluation. Adverse condition is cribed (extextent, location, volume, etc.) here: <b>None</b> |                            |          |          | ier |

|      | PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments   |                             |           |           |     |
|------|---|-----------------------------|-----------|-----------|-----|
| INS  |   | DATE: 9/14/2022             |           |           |     |
| NP   | DES I.D. NO.: N/A   |                             |           |           |     |
| FAC  | CILITY CONFIGURATION: Final Pit Impoundment   | DATE LAST INSPECTION: 6/2   | 23/2022   |           |     |
| SITE | E NAME: Pecoco Reservoir  | LOCATION: SW¼ NW¼, Sec.     | 2, T5N, I | R87W      |     |
| MIN  | NE NAME: Peabody Sage Creek Mine  | LOCATION: 7.1 mi. SE of Hay | yden, CO  |           |     |
| MIN  | NE I.D. NO.: CMLRD Permit No. C-2009-087  | OWNER'S REP.: Miranda Ka    | wcak      |           |     |
|      | CIRCLE OR WRITE IN APPROPRIATE RESP   | ONSE:                       | YES       | NO        | N/A |
| 1    | Foundation preparation (removal of vegetation, stumps, tops   | oil:                        | Х         |           |     |
| 2    | Lift thickness = None - Pit Impoundment   |                             |           |           |     |
| 3    | Compaction according to approved plan:  |                             | х         |           | х   |
| 4    | Burning (specify extent and location):  |                             |           | х         |     |
|      | Angle of slope: <u>5:1</u> upstream, <u>2:1</u> downstream  |                             | To        | tal = 7:1 |     |
| 6    | *Seepage (specify location, color, and approximate volume)  |                             |           |           |     |
|      | From underdrain pipes   |                             |           |           | х   |
|      | At isolated points on embanckement slopes   |                             |           | х         |     |
|      | At natural hillside:  |                             |           | х         |     |
|      | Over widespread areas:  |                             |           | х         |     |
|      | From downstream foundation area:  |                             |           | х         |     |
|      | "Boils" beneath stream or ponded water:   |                             |           | х         |     |
|      | Cracks or scarps on crest:  |                             |           | х         |     |
|      | Cracks or scarps on slope:  |                             |           | х         |     |
|      | Sloughing or bulging on slope:  |                             |           | х         |     |
|      | *Major erosion problems:  |                             |           | х         |     |
|      | Surface movements in valley bottom or on hillside:  |                             |           | х         |     |
|      | *Erosion of toe:  |                             |           | х         |     |
|      | *Water impounded against toe:   |                             |           | х         |     |
|      | Existing embankment freeboard (6.1' is normal) = <b>6.1'</b>  |                             |           |           |     |
| 15   | Increase Decrease in water level: Consistant disc   | harge elev.                 |           |           |     |
|      | Cracks, bulging, or erosion on upstream face:   |                             |           | х         |     |
|      | Visible sumps or sinkholes in slurry surface:   |                             |           |           | х   |
| 18   | 55 5  |                             |           |           | 1   |
|      | Spillway channels and pipes:  |                             |           | х         |     |
|      | Decant system:  |                             |           |           | Х   |
|      | Diversion ditches:  |                             |           |           | Х   |
| 19   | 0 0 11  |                             |           |           | 1   |
|      | Spillway pipes:   |                             |           | х         | -   |
|      | Decant system:  |                             |           | <u> </u>  | Х   |
|      | Trash racks clear and in place:   |                             |           |           | Х   |
|      | Discharge rate (gpm) = ~50 GPM  |                             |           |           |     |
| and  | ajor adverse changes in these items could cause instability and<br>I Mine Superintendent for further evaluation. Adverse conditio<br>cribed (extextent, location, volume, etc.) here: <b>None</b> |                             |           |           | er  |

|                                  | PERIODIC INSPECTION FORM: Water, Se  |                            | nents   |     |     |
|----------------------------------|--|----------------------------|---------|-----|-----|
|                                  | PECTOR'S NAME: Miranda Kawcak  | DATE: 9/14/2022            |         |     |     |
| NPI                              | DES I.D. NO.: N/A  |                            |         |     |     |
| FAC                              | CILITY CONFIGURATION: Diked Pond   | DATE LAST INSPECTION: 6/2  | 23/2022 |     |     |
| SITI                             | E NAME: Lower Sump   | LOCATION: SE¼, Sec. 34, T6 | N, R87V | V   |     |
| MII                              | NE NAME: Peabody Sage Creek Mine   | LOCATION: 7.1 mi. SE of Ha | yden, C | 0   |     |
| MII                              | NE I.D. NO.: CMLRD Permit No. C-2009-087   | OWNER'S REP.: Miranda Ka   | wcak    |     |     |
|                                  | CIRCLE OR WRITE IN APPROPRIATE RES   | PONSE:                     | YES     | NO  | N/A |
| 1                                | Foundation preparation (removal of vegetation, stumps, tops  | oil:                       | х       |     |     |
| 2                                | Lift thickness =   |                            |         |     |     |
| 3                                | Compaction according to approved plan:   |                            | х       |     |     |
| 4                                | Burning (specify extent and location):   |                            |         | х   |     |
| 5                                | Angle of slope:upstream,downstream   |                            |         | N/A |     |
| 6                                | *Seepage (specify location, color, and approximate volume)   |                            |         |     |     |
|                                  | From underdrain pipes  |                            |         |     | х   |
|                                  | At isolated points on embanckement slopes  |                            |         | х   |     |
|                                  | At natural hillside:   |                            |         | х   |     |
|                                  | Over widespread areas:   |                            |         | х   |     |
|                                  | From downstream foundation area:   |                            |         | х   |     |
|                                  | "Boils" beneath stream or ponded water:  |                            |         | х   |     |
| 7                                | Cracks or scarps on crest:   |                            |         | х   |     |
| 8                                | Cracks or scarps on slope:   |                            |         | х   |     |
| 9 Sloughing or bulging on slope: |  |                            | х       |     |     |
| 10                               | *Major erosion problems:   |                            |         | х   |     |
| 11                               | Surface movements in valley bottom or on hillside:   |                            |         | х   |     |
| 12                               | *Erosion of toe:   |                            |         | х   |     |
| 13                               | *Water impounded against toe:  |                            |         | х   |     |
| 14                               | Existing embankment freeboard = Dicharging at spillway ele   | V.                         |         |     |     |
| 15                               | IncreaseDecrease in water level: NO Change   |                            |         |     |     |
| 16                               | Cracks, bulging, or erosion on upstream face:  |                            |         | х   |     |
| 17                               | Visible sumps or sinkholes in slurry surface:  |                            |         |     | х   |
| 18                               | *Clogging  |                            |         |     |     |
|                                  | Spillway channels and pipes:   |                            |         | х   |     |
|                                  | Decant system:   |                            |         |     | х   |
|                                  | Diversion ditches:   |                            |         | х   |     |
| 19                               | *Cracking or crushing of pipes   |                            |         |     |     |
|                                  | Spillway pipes:  |                            |         |     | х   |
|                                  | Decant system:   |                            |         |     | х   |
| 20                               | Trash racks clear and in place:  |                            | х       |     |     |
| 21                               | Discharge rate (gpm) = ~40 gpm   |                            |         |     |     |
| and                              | ajor adverse changes in these items could cause instability and Mine Superintendent for further evaluation. Adverse condition cribed (extextent, location, volume, etc.) here: <b>None</b> |                            | -       | -   | ger |
|                                  |  |                            |         |     |     |

|     | PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments  |                            |          |        |     |  |
|-----|--|----------------------------|----------|--------|-----|--|
| INS | PECTOR'S NAME: Miranda Kawcak  | DATE: 9/14/2022            |          |        |     |  |
| NP  | DES I.D. NO.: N/A  |                            |          |        |     |  |
| FAC | CILITY CONFIGURATION: Incised Pond   | DATE LAST INSPECTION: 6/2  | 23/2022  |        |     |  |
| SIT | E NAME: Truck Wash Settling Pond   | LOCATION: NW¼ NE¼, Sec.    | 34, T6N  | , R87W |     |  |
| MII | NE NAME: Peabody Sage Creek Mine   | LOCATION: 7.1 mi. SE of Ha | yden, Co | )      |     |  |
| MII | NE I.D. NO.: CMLRD Permit No. C-2009-087   | OWNER'S REP.: Miranda Ka   | wcak     |        |     |  |
|     | CIRCLE OR WRITE IN APPROPRIATE RESP  | PONSE:                     | YES      | NO     | N/A |  |
| 1   | Foundation preparation (removal of vegetation, stumps, tops  | soil:                      | х        |        |     |  |
| 2   | Lift thickness = N/A   |                            |          |        |     |  |
| 3   | Compaction according to approved plan:   |                            |          |        | х   |  |
| 4   | Burning (specify extent and location):   |                            |          |        | х   |  |
| 5   | Angle of slope:upstream,downstream   |                            |          | N/A    |     |  |
| 6   | *Seepage (specify location, color, and approximate volume)   |                            |          |        |     |  |
|     | From underdrain pipes  |                            |          |        | х   |  |
|     | At isolated points on embanckement slopes  |                            |          |        | х   |  |
|     | At natural hillside:   |                            |          |        | х   |  |
|     | Over widespread areas:   |                            |          |        | х   |  |
|     | From downstream foundation area:   |                            |          |        | х   |  |
|     | "Boils" beneath stream or ponded water:  |                            |          | х      |     |  |
| 7   | Cracks or scarps on crest:   |                            |          |        | х   |  |
| 8   | Cracks or scarps on slope:   |                            |          |        | х   |  |
| 9   | Sloughing or bulging on slope:   |                            |          |        | х   |  |
| 10  | *Major erosion problems:   |                            |          | х      |     |  |
| 11  | Surface movements in valley bottom or on hillside:   |                            |          |        | х   |  |
| 12  | *Erosion of toe:   |                            |          |        | х   |  |
| 13  | *Water impounded against toe:  |                            |          |        | х   |  |
| 14  | Existing embankment freeboard (5.0' is normal) = Dry   |                            |          |        |     |  |
| 15  | Increase Decrease in water level: No Change  |                            |          |        |     |  |
| 16  | Cracks, bulging, or erosion on upstream face:  |                            |          |        | х   |  |
| 17  | Visible sumps or sinkholes in slurry surface:  |                            |          |        | х   |  |
| 18  | *Clogging  |                            |          |        |     |  |
|     | Spillway channels and pipes:   |                            |          | х      |     |  |
|     | Decant system:   |                            |          |        | х   |  |
|     | Diversion ditches:   |                            |          |        | х   |  |
| 19  | *Cracking or crushing of pipes   |                            |          |        |     |  |
|     | Spillway pipes:  |                            |          | х      |     |  |
|     | Decant system:   |                            |          |        | х   |  |
| 20  | Trash racks clear and in place:  |                            | х        |        |     |  |
| 21  | Discharge rate (gpm) = <b>0</b>  |                            |          |        |     |  |
| and | ajor adverse changes in these items could cause instability and<br>Mine Superintendent for further evaluation. Adverse condition<br>Corribed (extextent, location, volume, etc.) here: <b>None</b> | -                          | _        | -      | ger |  |

| INIS | PECTOR'S NAME: Miranda Kawcak   | ediment, or Slurry Impoundn<br>DATE: 9/14/2022 | nents   |          |          |
|------|---|--|---------|----------|----------|
|      | DES I.D. NO.: N/A   | DATE: 3/14/2022                                |         |          |          |
|      | CILITY CONFIGURATION: Diked Pond  | DATE LAST INSPECTION: 6/2                      | 23/2022 |          |          |
|      | E NAME: Upper Sump  | LOCATION: NW¼, Sec. 3, T5                      |         | V7W      |          |
|      | NE NAME: Peabody Sage Creek Mine  | LOCATION: 7.1 mi. SE of Ha                     |         |          |          |
|      | NE I.D. NO.: CMLRD Permit No. C-2009-087  | OWNER'S REP.: Miranda Ka                       |         |          |          |
|      | CIRCLE OR WRITE IN APPROPRIATE RESP   |  | YES     | NO       | N/A      |
| 1    | Foundation preparation (removal of vegetation, stumps, tops   |  | X       | 110      | 14/ /    |
|      | Lift thickness =  | · · · · · · · · · · · · · · · · · · ·          |         |          |          |
|      | Compaction according to approved plan:  |  | х       |          |          |
|      | Burning (specify extent and location):  |  |         | х        |          |
|      | Angle of slope:upstream,downstream  |  |         | N/A      | <u>J</u> |
| 6    | *Seepage (specify location, color, and approximate volume)  |  |         | ,        |          |
| -    | From underdrain pipes   |  |         |          | х        |
|      | At isolated points on embanckement slopes   |  |         | х        | 1        |
|      | At natural hillside:  |  |         | X        |          |
|      | Over widespread areas:  |  |         | X        |          |
|      | From downstream foundation area:  |  | x       |          |          |
|      | "Boils" beneath stream or ponded water:   |  |         | х        |          |
| 7    | Cracks or scarps on crest:  |  |         | x        |          |
|      | Cracks or scarps on slope:  |  |         | х        |          |
|      | Sloughing or bulging on slope:  |  |         | х        |          |
|      | *Major erosion problems:  |  |         | х        |          |
|      | Surface movements in valley bottom or on hillside:  |  |         | х        |          |
|      | *Erosion of toe:  |  |         | х        |          |
| 13   | *Water impounded against toe:   |  |         | х        |          |
| 14   | Existing embankment freeboard = Discharging at spillway ele   | vV.  |         | <u>I</u> |          |
| 15   | IncreaseDecrease in water level: No Change  |  |         |          |          |
| 16   | Cracks, bulging, or erosion on upstream face:   |  |         | х        |          |
| 17   | Visible sumps or sinkholes in slurry surface:   |  |         |          | х        |
| 18   | *Clogging   |  |         | •        | •        |
|      | Spillway channels and pipes:  |  |         | х        |          |
|      | Decant system:  |  |         |          | х        |
|      | Diversion ditches:  |  |         |          | х        |
| 19   | *Cracking or crushing of pipes  |  |         |          |          |
|      | Spillway pipes:   |  |         | х        |          |
|      | Decant system:  |  |         |          | х        |
| 20   | Trash racks clear and in place:   |  | х       |          |          |
| 21   | Discharge rate (gpm) = ~50 GPM  |  |         |          |          |
| ana  | ajor adverse changes in these items could cause instability and<br>I Mine Superintendent for further evaluation. Adverse conditic<br>cribed (extextent, location, volume, etc.) here: <b>None</b> |  | _       | -        | ger      |

|      | PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments  |                            |          |     |     |
|------|--|----------------------------|----------|-----|-----|
| INS  | PECTOR'S NAME: Miranda Kawcak  | DATE: 9/14/2022            |          |     |     |
| NPI  | DES I.D. NO.: N/A  |                            |          |     |     |
| FAC  | CILITY CONFIGURATION: Diked Pond   | DATE LAST INSPECTION: 6/2  | 23/2022  |     |     |
| SITI | E NAME: Portal Sump #1 (upper north)   | LOCATION: NW¼, Sec. 3, T5  | N, R87W  | 7   |     |
| MIN  | NE NAME: Peabody Sage Creek Mine   | LOCATION: 7.1 mi. SE of Ha | yden, CC | )   |     |
| MIN  | NE I.D. NO.: CMLRD Permit No. C-2009-087   | OWNER'S REP.: Miranda Kav  | wcak     |     |     |
|      | CIRCLE OR WRITE IN APPROPRIATE RESPONSE:   |                            |          | NO  | N/A |
| 1    | Foundation preparation (removal of vegetation, stumps, tops  | oil:                       | Х        |     |     |
| 2    | Lift thickness = 12"   |                            |          |     |     |
| 3    | Compaction according to approved plan:   |                            | х        |     |     |
| 4    | Burning (specify extent and location):   |                            |          | х   |     |
| 5    | Angle of slope:upstream,downstream   |                            |          | N/A |     |
| 6    | *Seepage (specify location, color, and approximate volume)   |                            |          |     |     |
|      | From underdrain pipes  |                            |          |     | х   |
|      | At isolated points on embanckement slopes  |                            |          |     | Х   |
|      | At natural hillside:   |                            |          |     | х   |
|      | Over widespread areas:   |                            |          |     | х   |
|      | From downstream foundation area:   |                            |          |     | Х   |
|      | "Boils" beneath stream or ponded water:  |                            |          | Х   |     |
| 7    | Cracks or scarps on crest:   |                            |          |     | х   |
| 8    | Cracks or scarps on slope:   |                            |          |     | х   |
| 9    | Sloughing or bulging on slope:   |                            |          |     | х   |
|      | *Major erosion problems:   |                            |          | х   |     |
|      | Surface movements in valley bottom or on hillside:   |                            |          | х   |     |
| 12   | *Erosion of toe:   |                            |          |     | х   |
|      | *Water impounded against toe:  |                            |          |     | х   |
|      | Existing embankment freeboard = No Change  |                            |          |     |     |
| 15   | <del></del>  |                            | 1        |     |     |
|      | Cracks, bulging, or erosion on upstream face:  |                            |          |     | х   |
| _    | Visible sumps or sinkholes in slurry surface:  |                            |          |     | х   |
| 18   | 20 0   |                            |          |     |     |
|      | Spillway channels and pipes:   |                            |          | х   |     |
|      | Decant system:   |                            |          |     | х   |
|      | Diversion ditches:   |                            |          |     | х   |
| 19   | 3 3 11   |                            |          |     |     |
|      | Spillway pipes:  |                            |          | Х   |     |
|      | Decant system:   |                            |          |     | х   |
|      | Trash racks clear and in place:  |                            |          |     | X   |
|      | Discharge rate (gpm) = 0 <b>GPM</b>  |                            |          |     |     |
| ana  | lajor adverse changes in these items could cause instability and did Mine Superintendent for further evaluation. Adverse condition is cribed (extextent, location, volume, etc.) here: <b>None</b> |                            | _        |     | ier |

|      | PERIODIC INSPECTION FORM: Water, Sediment, or Slurry Impoundments   |                            |             |          |     |
|------|---|----------------------------|-------------|----------|-----|
| INS  | PECTOR'S NAME: Miranda Kawcak   | DATE: 9/14/2022            |             |          |     |
| NPI  | DES I.D. NO.: N/A   |                            |             |          |     |
| FAC  | CILITY CONFIGURATION: Diked Pond  | DATE LAST INSPECTION: 6/2  | 23/2022     |          |     |
| SITE | E NAME: Portal Sump #2 (Lower South)  | LOCATION: NW¼, Sec. 3, T5  | 5N, R87V    | v        |     |
| MIN  | NE NAME: Peabody Sage Creek Mine  | LOCATION: 7.1 mi. SE of Ha | yden, CC    | <u> </u> |     |
| MIN  | NE I.D. NO.: CMLRD Permit No. C-2009-087  | OWNER'S REP.: Miranda Ka   | wcak        |          |     |
|      | CIRCLE OR WRITE IN APPROPRIATE RESP   | ONSE:                      | YES         | NO       | N/A |
| 1    | Foundation preparation (removal of vegetation, stumps, tops   | oil:                       | х           |          |     |
| 2    | Lift thickness = 12"  |                            | ,           |          |     |
| 3    | Compaction according to approved plan:  |                            | х           |          |     |
| 4    | Burning (specify extent and location):  |                            |             | х        |     |
| 5    | Angle of slope: upstream, downstream  |                            | <del></del> | N/A      |     |
| 6    | *Seepage (specify location, color, and approximate volume)  |                            |             |          |     |
|      | From underdrain pipes   |                            |             |          | х   |
|      | At isolated points on embanckement slopes   |                            |             |          | х   |
|      | At natural hillside:  |                            |             |          | х   |
|      | Over widespread areas:  |                            |             |          | х   |
|      | From downstream foundation area:  |                            |             |          | х   |
|      | "Boils" beneath stream or ponded water:   |                            |             | х        |     |
| 7    | Cracks or scarps on crest:  |                            |             |          | х   |
| 8    | Cracks or scarps on slope:  |                            |             |          | х   |
| 9    |   |                            |             |          | х   |
| 10   | *Major erosion problems:  |                            |             | х        |     |
| 11   | Surface movements in valley bottom or on hillside:  |                            |             | х        |     |
| 12   | *Erosion of toe:  |                            |             |          | х   |
| 13   | *Water impounded against toe:   |                            |             |          | х   |
| 14   | Existing embankment freeboard = No Change   |                            |             |          |     |
| 15   | IncreaseDecrease in water level:  |                            |             |          |     |
| 16   | Cracks, bulging, or erosion on upstream face:   |                            |             |          | х   |
| 17   | Visible sumps or sinkholes in slurry surface:   |                            |             |          | х   |
| 18   | *Clogging   |                            |             |          |     |
|      | Spillway channels and pipes:  |                            |             | х        |     |
|      | Decant system:  |                            |             |          | х   |
|      | Diversion ditches:  |                            |             |          | х   |
| 19   | *Cracking or crushing of pipes  |                            |             |          |     |
|      | Spillway pipes:   |                            |             | х        |     |
|      | Decant system:  |                            |             |          | х   |
| 20   | Trash racks clear and in place:   |                            |             |          | х   |
| 21   | Discharge rate (gpm) = <b>0</b>   |                            |             |          |     |
|      | ajor adverse changes in these items could cause instability and   |                            | -           |          | jer |
|      | and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be described (extextent, location, volume, etc.) here: <b>Not Pumping</b> |                            |             |          |     |
|      |   |                            |             |          |     |
|      |   |                            |             |          |     |
|      |   |                            |             |          |     |