



COLORADO
Department of Public
Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

October 2, 2017

Mr. Marlin Mullet
Chief Financial Officer
Twin Enviro Services
P.O. Box 774362
Steamboat Springs, CO 80477

CERTIFIED MAIL # 7012 1010 0003 4308 0972
Return Receipt Requested

Re: Compliance Advisory for the Milner Landfill:
Twin Enviro Services
20650 County Road 205
Steamboat Springs, CO 80487
SW RTT MIL 1.6

Dear Mr. Mullet:

This Compliance Advisory provides notice related to information gained during an inspection conducted by the Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the "Department") on May 23 and 24, 2017. The purpose of the inspection was to determine the facility's compliance status with respect to the Solid Wastes Disposal Sites and Facilities Act, CRS 30-20-100.5 *et. seq.*, the Regulations Pertaining to Solid Waste Sites and Facilities (6 CCR 1007-2, Part 1; the Regulations), and the approved Milner Landfill Engineering Design and Operations Plan (EDOP). The Department advises you that the information gained during the inspection indicates that you may have violated Colorado's solid waste laws. Department personnel will review the facts established and this notice may be revised to include additions or clarifications as a result of that review.

Please be aware that you are responsible for complying with the State solid waste regulations and that there are civil penalties for failing to do so. The issuance of this Compliance Advisory does not limit or preclude the Department from pursuing its enforcement options concerning this inspection including issuance of a Compliance Order and/or seeking an assessment of civil penalties. Also, this Compliance Advisory does not constitute a bar to enforcement action for conditions that are not addressed in this Compliance Advisory, or conditions found during future file reviews or inspections of your property. The Department will take into consideration your response to the requested actions listed below for each cited deficiency in its consideration of enforcement options.

Deficiency 1: The facility was not operating in accordance with its design and operations plan (EDOP) at the time of the inspection. Specific findings are listed below:

- a.) Ash was noted to be prevalent in areas surrounding the solidification basin from spillage and/or tracking, in apparent violation of Section 5.4.3.1 (Waste Flow) of the Solidification Basin Design, Operations and Closure Plan Amendment (Section 5.4 of the D&O Plan) of the approved EDOP.



- b.) The facility accepted waste at the solidification basin outside of the operating hours for the facility, in apparent violation of Section 6.1 (Hours of Operation) of the approved EDOP and Section 5.4.3 (Waste Solidification Operations) of the Solidification Basin Design, Operations and Closure Plan Amendment (Section 5.4 of the D&O Plan) of the approved EDOP.
- c.) The facility has stockpiled soil outside of their CD boundary near the SE corner of the facility, in apparent violation of 6 CCR 1007-2, Section 1.3.9.
- d.) Monitoring well MW-4 is located in a substantially different location than what is shown in Plate 2 (Site Sampling and Existing Conditions) of the approved EDOP.

Requested Action 1:

- a.) Within fourteen (14) calendar days of your receipt of this Compliance Advisory ensure that all ash material is removed from the areas surrounding the solidification basin and appropriately disposed of in the working face of the landfill and submit photographs documenting this action.
- b.) Immediately cease any acceptance of waste materials outside of the operating hours of the facility.
- c.) Within thirty (30) calendar days of your receipt of this Compliance Advisory update the facility's storm water management plan to show locations of stockpiles and to provide details of erosion control measures. Include the updated storm water management plan in the facility's EDOP, which is currently being updated.
- d.) Within sixty (60) calendar days of your receipt of the Compliance Advisory submit a plan to install a replacement well for MW-4. The replacement well must be constructed at the permitted location show in the facility's EDOP.

Deficiency 2: The facility was not maintaining an operating record with all required elements at the time of the inspection. Specific findings are listed below:

- a.) Results of prior testing events on the "coupon" installed in the solidification basin liner system could not be produced by the facility, in apparent violation of Section 5.4.3.3 of the Solidification Basin Design, Operations and Closure Plan Amendment (Section 5.4 of D&O Plan) of the approved EDOP. The coupon is much reduced from the specified installation size seeming to indicate one or two testing events have occurred in the past. As testing will require a significant portion of the coupon for each event, and based on the remaining size of the reduced coupon, it appears that the facility will be unable to comply with the requirement for 5 testing events for the liner in the solidification basin, resulting in a violation of Section 5.4.1.4 (Compatibility with the PPE Liner) of the Solidification Basin Design, Operations and Closure Plan Amendment (Section 5.4 of the D&O Plan) of the approved EDOP.

Requested Action 2: Within thirty (30) calendar days of your receipt of this Compliance Advisory submit a report (including laboratory reporting and analytical results, photographs, and any other pertinent information) of any previous testing events that have been performed on the "coupon" in the solidification basin liner. During the current revision to the facility's EDOP include a discussion on how the facility plans to ensure the integrity of the solidification basin liner in lieu of the required five testing events.

Deficiency 3: The facility failed to place adequate cover in several areas of the facility, in apparent violation of 6 CCR 1007-2, Section 2.1.10 and Section 4.4.7 (Refuse Cell Construction) of the approved EDOP. Specific examples are listed below:

- a.) Exposed waste was noted to be present near the new MRF building where a slope had been pulled back.

- b.) Exposed waste was noted to be present at the eastern edge of the MOD 2-3 areas where the new expansion cells 6A and 7A have been constructed. This is the area where the new liners for MODs 6A and 7A have been tied into existing liners in the MOD 2-3 area.
- c.) Exposed waste was noted on the East side of Pit 6 in multiple locations. Additionally, there was noted to be insufficient vegetation at the crest of the Pit 6 area.

Requested Action 3: Immediately place required amounts of daily/intermediate/final cover in the areas noted above. Photographs documenting this placement of additional cover shall be sent to the Department within seven (7) calendar days of your receipt of this Compliance Advisory.

Deficiency 4: The facility failed to place adequate cover in the friable asbestos disposal area, in apparent violation of 6 CCR 1007-2, Section 5.3.7. Two waste bags were visible at the ground surface within the asbestos area indicating insufficient cover has been placed.

Requested Action 4: Immediately place required amounts of cover in the friable asbestos disposal area over all areas where asbestos waste were noted to be present on the ground surface. Pictures documenting this placement of additional cover shall be sent to the Department within seven (7) calendar days of your receipt of this Compliance Advisory.

Deficiency 5: Windblown trash was noted to be prevalent at the facility during this inspection event, in apparent violation of 6 CCR 1007-2, Section 2.1.11 and Section 4.7.1 (Litter Control) of the approved EDOP. Several areas were noted to have windblown trash present including:

- a.) Storm water ditches at the east and west sides of the MOD 6A and 7A expansion areas.
- b.) Within expansion area 6A and 7A.
- c.) The eastern portion of the facility (pit 6 area).

Requested Action 5: Within seven (7) calendar days of your receipt of this Compliance Advisory remove windblown trash from the areas noted above and submit photographs showing your return to compliance to the Department.

Deficiency 6: Leachate head on the liner system was checked at the MOD1 sump at the time of the inspection. Results indicated that there was 1.43 feet of head on the liner, in violation of the allowed maximum of 1' of head on the liner system in apparent violation of 6 CCR 1007-2, Section 3.2.5(D)(1) and Section 4.4.6 (Leachate Collection and Removal System (LCRS)) of the approved EDOP.

Requested Action 6: Immediately begin to check the MOD1 sump at intervals frequent enough to allow pumping of leachate prior to it exceeding regulatorily specified levels (1' of head on the liner system). Additionally, during the facility's current EDOP update include a discussion of how and when leachate levels will be checked and managed (e.g. a seasonally variable leachate inspection and management schedule) to maintain less than 1' of head on the liner system at all times.

Deficiency 7: The storm water control system was not being adequately maintained at the time of the inspection, in apparent violation of 6 CCR 1007-2, Section 2.1.6 and Section 4.6 (Surface Water Drainage Control) of the approved EDOP.

- a.) It was noted that storm water/runoff from the facility's snowmelt area was not being adequately controlled and sediment was being allowed to discharge to surface waters.
- b.) The facility did not have appropriate sediment control in place at the West borrow area.

Requested Action 7: Within thirty (30) calendar days of your receipt of this Compliance Advisory repair storm water control features that require it, and implement storm water control measures in the areas listed above where they are lacking.

Deficiency 8: Waste was noted to be present in surface water/groundwater in the Doug's Drainage area in apparent violation of 6 CCR 1007-2, Section 3.1.9. It appeared as though a load had been historically dumped in this area, and there was a large equipment tire present in this area as well.

Requested Action 8: Within fourteen (14) calendar days of your receipt of this Compliance Advisory remove all waste from surface water and slopes of the area known as "Doug's Drainage" and move these wastes to the working face of the landfill (except for any tire(s) located in the drainage, which shall be properly managed for recycling) and provide photographs documenting your return to compliance to the Department.

Deficiency 9: Due to a "land swap" with an adjacent land owner, several of the facility's up-gradient ground water monitoring wells and at least one gas probe are now located off of the landfill property. Because the groundwater wells are up-gradient of the facility, they do not need to be located on property owned by the facility. The facility can either procure a written access agreement for these wells or relocate them onto facility property. A written access agreement must be placed in the facility's operating record and EDOP (and also provide the agreement to the Department and Routt County). However, all gas probes must be located within the facility boundary. The presence of a gas probe beyond the facility property boundary is in apparent violation of 6 CCR 1007-2, Section 2.3.1.

Requested Action 9: Within sixty (60) calendar days of your receipt of this Compliance Advisory procure a written access agreement to properties where groundwater monitoring wells for the facility are located, place the agreement in the facility's operating record, and forward copies of the access agreement to Routt County and the Department. Additionally, within sixty (60) calendar days of your receipt of this Compliance Advisory submit a plan to the Department and Routt County for review and approval for relocating gas probe(s) to locations within the facility's property boundary

Deficiency 10: Storage of horse manure/food waste was noted to be occurring off of the working pad in the composting area in apparent violation of Section 5.5.3.1 (Description of Composting Operation) of the Milner Landfill Compost Design, Operations and Closure Plan Amendment of the approved EDOP.

Requested Action 10: Within seven (7) days of your receipt of this compliance advisory move all composting feedstocks onto the composting work pad and provide photographs documenting your return to compliance to the Department.

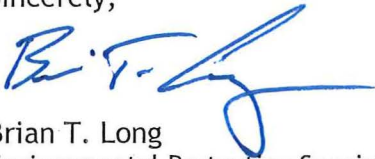
To facilitate resolution of the issues identified in this Compliance Advisory, we encourage you complete the requested actions, including any required submittals, in the timeframes requested, and to document your return to compliance by submitting correspondence back to the Department. Also, please contact this office at the number listed below by November 1, 2017 to schedule a meeting (compliance conference):

- A. To discuss the Compliance Advisory and answer any questions that you may have;
- B. To develop a schedule for correcting the deficiency noted above; or
- C. To submit information necessary to show that the deficiency is not a violation of Colorado's solid waste laws.

A copy of the inspection report is enclosed with this Compliance Advisory.

You may contact Brian Long at (303) 691-4033 or Ed Smith at (303) 692-3386 concerning the deficiencies detailed under this Compliance Advisory and/or to set a meeting to discuss this Compliance Advisory.

Sincerely,



Brian T. Long
Environmental Protection Specialist
Solid Waste Compliance Assurance Unit
Solid and Hazardous Waste Program

Enclosure

cc: Luke Schneider, Twin Enviro Services
Curt Stovall, CDPHE HMWMD
Jerry Henderson, CDPHE HMWMD
Ed Smith, CDPHE HMWMD
Randy Perila, CDPHE HMWMD
Scott Cowman, Routt County Department of Environmental Health
Alan Goldich, Routt County Planning Department

SW Tracking

SOLID WASTE INSPECTION WORKSHEET

Agency: Colorado Department of Public Health and Environment
Hazardous Materials and Waste Management Division

Date: May 23, 2017 Times: 12:15 PM - 6:00 PM
May 24, 2017 Times: 8:30 AM - 2:15 PM

Site: Milner Landfill
Twin Enviro Services
20650 County Road 205
Steamboat Springs, CO 80487

Inspectors: Brian Long, HMWMD
Curt Stovall, HMWMD

Inspection: Compliance/Routine Inspection

Site Representatives: Marlin Mullet, Chief Financial Officer, Twin Enviro Services
Luke Schneider, Compliance Officer, Twin Enviro Services

Other Participants: Scott Cowman, Environmental Health Director
Routt County Department of Environmental Health

Weather Conditions: Sunny and mild

On May 23 and 24, 2017, staff from the Colorado Department of Public Health and Environment (the Department), conducted an inspection of the above-referenced property located near Milner, Colorado. The purpose of the inspection was to evaluate the compliance of the facility with the requirements set forth in the Solid Wastes Disposal Sites and Facilities Act ("the Act"), CRS 30-20-100.5 *et seq.*, with the Regulations Pertaining to Solid Waste Sites and Facilities, 6 CCR 1007-2 ("the Regulations"), and with the conditions of the approved Engineering Design and Operations Plan (EDOP) for the subject facility.

--Site History--

The Milner Landfill is located off of County Road 205 approximately one mile west of Milner, Colorado and approximately twelve miles west of Steamboat Springs, Colorado on U.S. Highway 40. The Landfill is located within the area of abandoned strip mining pits historically used for coal mining operations. According to the facility's EDOP, prepared by KRW Consulting, Inc., the mining operations likely concluded in the 1960's. After mining operations ceased the site was used for landfilling activities by Routt County. In 1983 Downhill Pick-Up leased the site and assumed control of the landfilling activities. Twin Enviro Services took over as operator of the facility in 1984, and is the owner and operator of the facility at this time. The property is approximately 149 acres in total.

--Records Review--

Records review was conducted as a part of this inspection. Records were reviewed both offsite prior to the inspection and onsite during the inspection event. Records reviewed included the facility's approved EDOP, the Certificate of Designation (CD), the facility's Special Use Permit (SUP) issued by Routt County, the composting EDOP, the solidification basin EDOP, records of random load inspections, paint filter test records for the solidification basin, personnel training records, leachate monitoring and testing records, groundwater monitoring records, explosive gas monitoring records, and the financial assurance for the facility.

The Facility has a Certificate of Designation (CD) issued by Routt County on September 14, 2010. The operating conditions are laid out in a Special Use Permit (SUP) issued by Routt County (as noted on CD Permit #PP2010-014). The SUP was further updated with Permit #PP2014-066 and amended further with Permit #PL-15-1016. The facility's SUP was inspected at the facility. There are 37 operating conditions in the current permit (1-12 general conditions and 13-37 specific conditions). The copy of the SUP on file at the facility was noted to be unsigned. Scott Cowman later determined that this was indeed the current valid SUP on file with Routt County, and that a signed copy does exist. There were noted to be a couple of conditions on the SUP which seemed to be in conflict with the EDOP. One solution to address these potential conflicts between the SUP and the EDOP would be to make sure these two documents line up during the upcoming EDOP and SUP revisions, and this was discussed with Twin Enviro Services representatives during the inspection.

Recordkeeping for the solidification basin was substantially incomplete. Section 5.4.3.3 of the EDOP requires the facility to maintain an operation log. An operation log was located onsite and was being partially maintained. This is an improvement over the 2016 inspection event when the log was not being maintained at all. However, the log was noted to be incompletely filled out. Department staff discussed this with Luke Schneider and said that even if a particular parameter is not applicable to a given load the log should be completely filled out, otherwise it will be considered to be incomplete. Additionally, during review of the solidification basin operation log it was noted that a load of liquid for solidification was accepted outside the facility's operating hours.

Deficiencies in the record keeping pertaining to leachate management were noted during the 2016 inspection event and some of these remained. Specifically, the facility has not kept adequate records of leachate testing for the past calendar year. Luke Schneider indicated this was because the testing and reporting parameters pertaining to leachate management were just recently understood by the facility, but this deficiency was noted during the 2016 inspection event.

The solidification basin at the facility was designed and constructed with a coupon in the liner for the express purposes of destructive testing at regular intervals to determine if the liner system was being affected by wastes placed into the basin. The coupon had been excavated and exposed just prior to this 2017 inspection event. The coupon was noted to be much smaller in size than anticipated seemingly indicating that one or two testing events had been performed in the past on the coupon. However, the facility could produce no analytical results for any previous coupon testing events. Also related to the solidification basin, the facility was noted to have not performed reactivity/compatibility testing for constituents being accepted for solidification.

The facility has entered assessment monitoring in relation to a Statistically Significant Increase (SSI) noted in groundwater monitoring well MW-4. Monitoring well MW-4 is one of the down-

gradient wells located at the facility. Monitoring well MW-4 was noted to be located in a substantially different location in the field than what is shown in the EDOP.

--Site Inspection--

Access to the facility is made through a gate located off of County Road 205. Signage noting the landfill hours of operation and prohibited waste items was observed at the entrance gate to the landfill.

Department staff and Scott Cowman arrived at the Milner Landfill located at 20650 County Road 205, Steamboat Springs at approximately 12:30 PM on May 23, 2017. Department staff initially met with, and began the site tour with, Twin Enviro staff Marlin Mullet. Luke Schneider, Compliance Officer, met up with the inspection group upon returning from dropping off samples at a laboratory in Steamboat Springs (the facility was performing their semi-annual groundwater monitoring event at the time of this inspection).

The inspection group left the main landfill office on foot and headed south towards the newly completed Material Recovery Facility (MRF). The MRF building was observed as well as the slope directly to the west of the MRF building. Some exposed waste was present here where the slope had been pulled back to provide adequate room for the MRF building (see photos 1-2).

The inspection group proceeded to the south up the slope to the west of the MRF building. There is a drainage area in this portion of the facility that is referred to as "Doug's Drainage". Solid waste was noted to be present in the surface water in this feature (see photo 3). The area just to the north of Doug's Drainage was also examined while the group was in this area. There appeared to be a large amount of historically placed compost material in this location (see photos 4-7). Although Twin Enviro representatives indicated that the compost material was "finished" compost (i.e. it had been tested and passed both temperature holding time and pathogen reduction parameters), the compost material did not appear to have been screened, as large pieces of plastic and bone were noted to be present in the compost material. Vegetation in this area was also observed to be well established.

The next area of the facility that was examined was the composting operation. Minor ponding was noted to be present in the compost storage area, but the berming surrounding the area had been repaired in this area (since the previous inspection conducted on 5/12/16), and no liquids were noted to be running off from the area (see photos 8-10). The composting pad itself was also inspected and was noted to be in much better condition than it was in during the last inspection event. There was still not a wood chip operations layer on the work pad, but the work pad had been graded to drain towards the compost leachate collection pond. There were large piles of compost present on the work pad (see photos 11-12). Luke Schneider noted that these piles had not met temperature holding times, so could not technically be considered finished compost. Luke Schneider indicated that he would pursue beneficial use of this material as a soil amendment rather than using it as a finished compost product. An item of concern noted during the inspection of the work pad area was that there was storage of composting feedstock material that was occurring off of the work pad (see photos 13-14). The feedstock materials noted to be present off of the composting work pad included manure and food waste.

The inspection group then proceeded to the solidification basin. A substantial amount of ash material was noted to be present outside of the basin area (areas surrounding the basin and on the haul roads around the basin) (see photos 15-18). This was likely due to spillage and/or tracking of

ash material out of the solidification basin. A portion of the solidification basin had been excavated just prior to the inspection event (see photos 19-21). This excavation was done to expose the coupon installed in the liner system for the purposes of destructive testing. As mentioned previously, the coupon was noted to be much smaller than was anticipated for not having completed any testing events to this point. This calls into question as to whether any previous coupon testing events have been completed at the facility, but the facility could not produce any records of any such testing having been conducted in the past. The less than anticipated quantity of the coupon will result in the facility not being in compliance with the solidification basin EDOP, as this document required 5 coupon testing events to be completed. There will not be enough coupon for 5 testing events since the destructive testing of the coupon requires a significant portion of material to be performed.

The inspection group then moved south of the solidification basin area and observed a soil stockpile area that was also utilized this past winter/spring as the facility's snow management area. Storm water control features were noted to be absent in this area and runoff from this area was noted to making its way down a hill to a discharge point into surface water. The runoff had created channels in the area that were readily visible (see photos 22-23). The western borrow area was also observed in this area and was noted not to have appropriate sediment control measures in place.

The inspection tour proceeded south along the western haul road for the facility. A couple of the storm water ditches in this area were noted to be partially filled in with sediment and likely required cleanout (see photos 24). Luke Schneider said that the facility may remove a culvert that conveys storm water from an area along the western edge of the landfill. This would be done to install a drainage ditch to eliminate sheet flow of storm water running over the buried culvert onto the western haul road of the facility.

The inspection group stopped at the MOD1 leachate sump to check the level of leachate currently on the liner. Luke Schneider used instrumentation to determine the amount of head on the liner and calculated that there was 1.43 feet of head on the liner at the time of the inspection. The allowed maximum amount of head on the liner is 1'.

The inspection moved further to the south along the western edge of the landfill. Along this area the unpermitted underdrain was checked and it was currently discharging, although it appeared to have less flow than during the inspection event in 2016 (see photos 25-26). The discharge was being absorbed into the ground surface before discharging into the nearby surface water body. Luke Schneider indicated that Twin Enviro Services was still in the permitting process with the Water Quality Control Division (WQCD) regarding this discharge as well as the newly established drain that is also discharging a little further to the south from this location (see photo 27).

On the way to the working face of the landfill the inspection group stopped to observe progress of the MOD 6A and 7A expansion areas from an elevated position to the south of these areas. One item of concern that was noted in this area south of the expansion areas was that due to a "land swap" with an adjacent land owner, several of the facility's up-gradient ground water monitoring wells and at least one gas probe are now off of the landfill property.

The inspection group proceeded around to the southeast and made its way to the working face of the landfill. Ponding water was noted to be present just to the south of the current working face at the landfill (see photo 28). Exposed waste was noted to be present in areas surrounding the working face of the landfill indicating insufficient daily cover had been placed in these areas (see

photos 29-34). At the time of the inspection it was noted that the current working face was adequately sized. However, it was noted by visual observation and also from comments from Luke Schneider that the working face had previously been too large to accommodate adequate daily cover and appropriate management. No prohibited waste streams were noted to be present at the working face at the time of the inspection.

After observations of the working face of the landfill were made the inspection group moved to the north and observed the northern slope of the active landfill area where seeding had recently been performed. The vegetation in this area was noted to be filling in pretty well. However, some erosion rilling was noted to be present on this northern slope as well as on the western slope of the landfill (see photos 35-36). These slopes are at a 4:1 slope and have been seeded. The vegetation on these slopes is coming in, but is not fully established yet. This Division discussed this with Luke Schneider and indicated that this erosion would likely continue until more permanent erosion control features are installed on these slopes (these north and west slopes are in intermediate closure, but not final closure).

Green waste storage was noted to be present in the area north of the active portion of the landfill (see photos 37-38) similar to the findings of the 2016 inspection event. This storage of green waste is not contemplated in the facility's EDOP.

The MOD 6A and 7A expansion areas were observed from the north side. Exposed waste was noted to be present at the eastern edge of the MOD 2-3 areas where the new expansion cells 6A and 7A have been constructed. Specifically, this was noted in the area the new liners for MODs 6A and 7A have been tied into existing liners in the MOD 2-3 area. This indicates inadequate intermediate cover on the MOD 2-3 cells in this area (see photos 39-40).

A significant amount of windblown trash was noted to be present in the storm water ditches at the east and west sides of the MOD 6A and 7A expansion areas as well as in the MOD 6A and 7A expansion areas themselves (see photos 41-42).

In an effort to conserve time Curt Stovall, CDPHE Solid Waste Permitter, proceeded to the Pit 6 area while the remainder of the group proceeded to the friable asbestos disposal cell. Curt Stovall noted the presence of windblown trash in the eastern portion of the facility (Pit 6 area) during his observations in this vicinity. It should be noted that only minor windblown trash was observed at the property line and/or beyond the property line to the east. Additional observations of the Pit 6 area included the presence of exposed waste in multiple locations and insufficient vegetation along the crest of the Pit 6 area (see photo 43), and a stockpile of soil outside of the CD boundary near the southeast corner of the facility.

Observations of the friable asbestos disposal area revealed that insufficient cover had been placed over asbestos waste in this area. Two separate locations had asbestos waste packaging visible at the ground surface with no cover (see photos 44-46). Although insufficient cover was noted to be less widespread than it was during the 2016 inspection event, any exposed asbestos waste is still a significant departure from regulatory requirements.

--Findings--

The facility was in apparent violation of the Act and the Regulations on the day of inspection and will be issued a Compliance Advisory. Many of these violations were also noted during the 2016

inspection event and are being addressed through a Compliance Order on Consent, so even though a comprehensive list of violations noted during the 2017 inspection is listed here, only the new (2017 only) violations will appear on the compliance advisory. The following apparent violations were found:

Deficiency 1: The facility was not operating in accordance with its design and operations plan (EDOP) at the time of the inspection. Specific findings are listed below:

- a. The facility is still not operating the solidification basin ash storage area in accordance with the approved design (Figure SB-1) of the Facility's Solidification Basin, in violation of Section 5.4.4 (Solidification Facility Design) of the approved EDOP.
- b. Ash was noted to be prevalent in areas surrounding the solidification basin from spillage and/or tracking, in apparent violation of Section 5.4.3.1 (Waste Flow) of the Solidification Basin Design, Operations and Closure Plan Amendment (Section 5.4 of D&O Plan) of the approved EDOP.
- c. The facility has not performed reactivity/compatibility testing for incoming waste streams to the solidification basin, in apparent violation of Section 5.4.1.5 (Compatibility of Different Liquid Wastes When Mixed - Reactivity).
- d. The facility accepted waste at the solidification basin outside of the operating hours for the facility, in apparent violation of Section 6.1 (Hours of Operation) of the approved EDOP and Section 5.4.3 (Waste Solidification Operations) of the Solidification Basin Design, Operations and Closure Plan Amendment (Section 5.4 of D&O Plan) of the approved EDOP.
- e. The facility has stockpiled soil outside of their CD boundary near the SE corner of the facility, in apparent violation of 6 CCR 1007-2, Section 1.3.9.
- f. Monitoring well MW-4 is located in a substantially different location than what is shown in Plate 2 (Site Sampling and Existing Conditions) of the approved EDOP.

Deficiency 2: The facility was not maintaining an operating record with all required elements at the time of the inspection. Specific findings are listed below:

- a. The facility has not kept adequate records of leachate testing for the past calendar year in apparent violation of 6 CCR 1007-2, Section 1.3.9 and Sections 4.4.6.2 (Leachate Collection and Removal System (LCRS) Operations), 4.5.4. (Leachate Seep Management), 4.5.5. (Leachate Storage and Disposal), and 6.5.3 (Monitoring Well and Leachate Sampling Schedule and Frequency) of the approved EDOP as modified by the Division's May 17, 2010 letter titled: Final Agency Action: Recommendation for Approval of Certificate of Designation Application with Modifications to the Proposed Design, Operation, and Closure Plan Amendment. This was also noted during the 2016 inspection event.
- b. Results of prior testing events on the "coupon" installed in the solidification basin liner system could not be produced by the facility, in apparent violation of Section 5.4.3.3 of the Solidification Basin Design, Operations and Closure Plan Amendment (Section 5.4 of D&O Plan) of the approved EDOP. The coupon is much reduced from the specified installation size seeming to indicate one or two testing events have occurred in the past. As testing will require a significant portion of the coupon for each event, and based on the remaining size of the reduced coupon, it appears that the facility will be unable to comply with the requirement for 5 testing events for the liner in the solidification basin, resulting in a violation of Section 5.4.1.4 (Compatibility with the PPE Liner) of the Solidification Basin Design, Operations and Closure Plan Amendment (Section 5.4 of the D&O Plan) of the approved EDOP.

- c. The operations log for the solidification basin was noted to be incomplete for many entries, in apparent violation of section 5.4.2 (Waste Acceptance, Documentation and Record Keeping) and section 5.4.3.3 (Operation Log) of the Facility's EDOP.

Deficiency 3: The facility failed to place adequate cover in several areas of the facility, in apparent violation of 6 CCR 1007-2, Section 2.1.10 and Section 4.4.7 (Refuse Cell Construction) of the approved EDOP. Specific examples are listed below:

- a. Exposed waste was noted to be present near the working face (insufficient daily cover).
- b. Exposed waste was noted to be present near the new MRF building where a slope had been pulled back.
- c. Exposed waste was noted to be present at the eastern edge of the MOD 2-3 areas where the new expansion cells 6A and 7A have been constructed. This is the area where the new liners for MODs 6A and 7A have been tied into existing liners in the MOD 2-3 area.
- d. Exposed waste was noted on the East side of Pit 6 in multiple locations. Additionally, there was noted to be insufficient vegetation at the crest of the Pit 6 area.

Deficiency 4: The facility failed to place adequate cover in the friable asbestos disposal area, in apparent violation of 6 CCR 1007-2, Section 5.3.7. Two waste bags were visible at the ground surface within the asbestos area indicating insufficient cover has been placed.

Deficiency 5: Windblown trash was noted to be prevalent at the facility during this inspection event, in apparent violation of 6 CCR 1007-2, Section 2.1.11 and Section 4.7.1 (Litter Control) of the approved EDOP. Several areas were noted to have windblown trash present including:

- a. Storm water ditches at the east and west sides of the MOD 6A and 7A expansion areas.
- b. Within expansion area 6A and 7A.
- c. The eastern portion of the facility (pit 6 area).

Deficiency 6: Leachate head on the liner system was checked at the MOD1 sump at the time of the inspection. Results indicated that there was 1.43 feet of head on the liner, in violation of the allowed maximum of 1' of head on the liner system in apparent violation of 6 CCR 1007-2, Section 3.2.5(D)(1) and Section 4.4.6 (Leachate Collection and Removal System (LCRS)) of the approved EDOP.

Deficiency 7: The storm water control system was not being adequately maintained at the time of the inspection, in apparent violation of 6 CCR 1007-2, Section 2.1.6 and Section 4.6 (Surface Water Drainage Control) of the approved EDOP.

- a. A couple of the facility's storm water management ditches appeared to require cleanout.
- b. It was noted that storm water/runoff from the facility's snowmelt area was not being adequately controlled and was being allowed to discharge to surface waters.
- c. The facility did not have appropriate sediment control in place at the West borrow area.

Deficiency 8: Ponding of water was noted to be present near the working face of the landfill and near the piles of finished compost (off composting pad), in apparent violation of 6 CCR 1007-2, Section 2.1.10.

Deficiency 9: Waste was noted to be present in surface water/groundwater in the Doug's Drainage area in apparent violation of 6 CCR 1007-2, Section 3.1.9. It appeared as though a load had been historically dumped in this area, and there was a large equipment tire present in this area as well.

Deficiency 10: Due to a "land swap" with an adjacent land owner, several of the facility's up-gradient ground water monitoring wells and at least one gas probe are now located off of the landfill property. Because the groundwater wells are up-gradient of the facility, they do not need to be located on property owned by the facility. The facility can either procure access agreements for these wells or relocate them onto facility property. Access agreements must be placed in the facility's operating record and EDOP (and also provide these agreements to the Division and Routt County). However, all gas probes must be located within the facility boundary. The presence of a gas probe beyond the facility property boundary is in apparent violation of 6 CCR 1007-2, Section 2.3.1.

Deficiency 11: Storage of horse manure/food waste was noted to be occurring off of the working pad in the composting area in apparent violation of Section 5.5.3.1 (Description of Composting Operation) of the Milner Landfill Compost Design, Operations and Closure Plan Amendment of the approved EDOP.

Compliance Assistance Items:

Compliance Assistance Item 1: Composting materials must be taken to finish or beneficially used. Large piles of compost were present on the composting pad that had not met the finished compost requirements. Additionally, a large quantity of composted material (it was unclear at the time of the inspection if the material was finished compost, but it was not screened) has been applied to the South end of the Pit 5 area. All composted material must meet finished compost specifications, or must meet the beneficial use requirements of the Water Quality Control Division Biosolids Program in order to use "unfinished" compost as a soil amendment.

Compliance Assistance Item 2: Luke Schneider said that the facility may remove a culvert that conveys storm water from an area along the western edge of the landfill. This would be done to install a drainage ditch to eliminate sheet flow of storm water running over the buried culvert onto the western haul road of the facility. If the facility removes this culvert to make the drainage ditch continuous the Division recommends additional pot holes be dug (as they were to the North of this location) to ascertain the limits of waste and the western boundary of the liner system. The findings of this operation should be reported to the Division and Routt County.

Compliance Assistance Item 3: There are large areas on the North and West sides of the Phase I area that are at a 4:1 slope. These areas are in intermediate closure and have been seeded (vegetation is coming in, but not fully established yet). Due to the size and sloping of these areas the Division predicts that erosion rilling will become a significant problem in these areas (minor erosion rills are present that will likely only become worse over time). The final cover design specifications for these areas include the installation of tack-on-berms to control the flow of water off these slopes. The Division recommends placing final cover on these slopes and installing the tack-on-berms as designed as soon as practically possible to eliminate the need for ongoing maintenance to address erosion issues on these slopes.

Compliance Assistance Item 4: The Division discussed the importance of controlling the size of the working face of the landfill with Luke Schneider. Controlling the size of the working face is

one of the primary ways in which the facility can ensure that an adequate amount of daily cover is placed, and in turn leads to less prevalence of windblown trash around the facility.

Compliance Assistance Item 5: It was noted during the inspection event that there may be inconsistencies between the facility's Special Use Permit (SUP) issued by Routt County and the facility's approved EDOP. During upcoming revisions to these documents efforts should be made to make sure all inconsistencies between the documents are eliminated.

Compliance Assistance Item 6: The facility should continue to work with the Solid Waste Permitting Unit regarding the assessment monitoring related to a Statistically Significant Increase (SSI) for constituents in groundwater monitoring well MW-4.

Prepared by:  Date: 10/2/17
Brian T. Long
Environmental Protection Specialist
Compliance Assurance Unit
Solid Waste and Materials Management Program
Colorado Department of Public Health and Environment

Attachments:

Attachment 1	Photo Log - Photos Taken by the Department
Attachment 2	Notice of Inspection, Inspection Checklists, and Checklist Notations Summary

File: SW/RTT/MIL 1.2

Attachment 1 - Photo Log

Photos Taken by the Department



Photo 1: Exposed waste in hillside next to new Material Recovery Facility (MRF)



Photo 2: Exposed waste on hillside next to new MRF building



Photo 3: Solid waste present in surface water in “Doug’s Drainage”



Photo 4: Unscreened compost applied in piles to area near Pit 5



Photo 5: Unscreened compost applied in piles to area near Pit 5



Photo 6: Plastic drainage pipe in compost near Pit 5 area



Photo 7: Bone in unscreened compost near Pit 5



Photo 8: Newly enhanced berms around compost storage area



Photo 9: Ponding in compost storage area



Photo 10: Ponding in compost storage area



Photo 11: Piles of compost material on composting work pad that had not met “finished” standard



Photo 12: Piles of compost material on composting work pad that had not met “finished” standard



Photo 13: Feedstocks (manure and food waste) stored off compost pad



Photo 14: Feedstocks (manure and food waste) stored off compost pad



Photo 15: Ash all over ground surface around solidification basin



Photo 16: Ash all over ground surface around solidification basin



Photo 17: Ash all over ground surface around solidification basin



Photo 18: Ash tracked out of solidification basin area



Photo 19: Excavation to expose coupon in the solidification basin



Photo 20: Exposed coupon in solidification basin



Photo 21: Exposed coupon in solidification basin



Photo 22: Snow melt storage area



Photo 23: Runoff location from snow melt storage area



Photo 24: Storm water ditch along W slope of active fill area (also note culvert in background which may be removed)



Photo 25: Original underdrain discharge point



Photo 26: Original underdrain discharge point



Photo 27: Newly constructed underdrain discharge point



Photo 28: Ponding of water near working face



Photo 29: Active working face



Photo 30: Exposed waste (insufficient cover) near working face



Photo 31: Exposed waste (insufficient cover) near working face



Photo32: Exposed waste (insufficient cover) near working face



Photo 33: Exposed waste (insufficient cover) on northern slope of active fill area



Photo 34: Exposed waste (insufficient cover) on northern slope of active fill area



Photo 35: Erosion rilling on western slope of active fill area



Photo 36: Erosion rilling on western slope of active fill area



Photo 37: Green waste storage area (not contemplated in EDOP)



Photo 38: Green waste storage area (not contemplated in EDOP)



Photo 39: Exposed waste (insufficient cover) in MOD 6A/7A area



Photo 40: Exposed waste (insufficient cover) in MOD 6A/7A area



Photo 41: Windblown trash in storm water ditch near MOD 6A and 7A



Photo 42: Windblown trash near MOD 6A and 7A



Photo 43: Exposed waste (insufficient cover) in Pit 6 area



Photo 44: Uncovered asbestos waste



Photo 45: Uncovered asbestos waste



Photo 46: Uncovered asbestos waste

Attachment 2

Notice of Inspection, Inspection Checklists, and Checklist
Notations Summary



Colorado Department
of Public Health
and Environment

Colorado Department of Public Health and Environment
Hazardous Materials and Waste Management Division
 4300 Cherry Creek Drive South, Mail Code HMWMD-B2, Denver, CO 80246-1530
 (303) 692-3320 <http://www.colorado.gov/cdphe/solidwaste>

Solid Waste and Materials Management Program
Notice of Inspection

Facility Name MILNER LANDFILL - TWIN ENVIRO	Facility ID	Date 5/23-24/17
File Code SW/RT/MIL		
Street 20450 COUNTY ROAD 205	Inspection Announced? () Yes <input checked="" type="checkbox"/> No	Time In: 12:15 PM 5/23 8:30 5/24
City MILNER County ROUITT Zip 80477	Enter by: <input checked="" type="checkbox"/> Consent () Warrant () Open Fields	Time Out: 6:00 PM 5/23 2:15 PM 5/24
Facility Representatives: LUKE SCHNEIDER - TWIN ENVIRO; COMPLIANCE OFFICER MARVIN MULLET - TWIN ENVIRO; CEO	Phone (970) 879-0985	Email lschneider@twinenviro.com mmullet@twinenviro.com
Local Government Representatives SCOTT COWMAN - DIRECTOR, ROUITT COUNTY PUBLIC HEALTH	Phone (970) 439-8550 ccol	Email scowman@co.routt.co.us

Inspection Result:

☐ No Violations Observed
☐ Minor Violations Noted Below
☐ Minor Violations, Compliance Advisory Issued
☒ Major Violations Identified

Compliance Assistance Delivered During the Inspection:

☒ Yes ☐ No; If yes, describe:
-DISCUSSED WAYS TO CONTROL SIZE OF WORKING FACE + APPLICATION OF DAILY COVER TO ADDRESS PREVALENCE OF WINDBLOWN TRASH AT SITE.

Apparent Violations and requested corrective actions:

SEE ATTACHED CHECKLISTS

Inspection Type:

<input type="checkbox"/> Complaint <input checked="" type="checkbox"/> Routine Compliance Inspection <input type="checkbox"/> Compliance Assistance Visit	<input type="checkbox"/> Enforcement Follow-up <input type="checkbox"/> Environmental Covenant <input type="checkbox"/> File/Records Review <input type="checkbox"/> Sampling
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Signature of Facility Representative Receiving Form: 	Lead CDPHE Inspector: Brian Lark
Name of Facility Official Receiving Form: Luke Schneider	Assisting Inspectors: Curt Stovall



COLORADO DEPARTMENT of PUBLIC HEALTH ENVIRONMENT
Hazardous Materials and Waste Management Division
SOLID WASTE DISPOSAL SITE AND FACILITY INSPECTION

Time In: 12:15 PM 8:30 AM

Time Out: 6:00 PM Page 1 of 2

Facility: MILNER LANDFILL

Inspection Date: 5/23-24/17

Landfill

Inspector(s): B. Long; C. Starnell

Functional Category	Requirement Description	Not Insp	N/A	Citation	Violation Y/N/P	Note Reference
Record Review						
Certificate of Designation	Have a Certificate of Designation (CD) (or Approved EDOP for One's Own Waste Facility)	<input type="checkbox"/>	<input type="checkbox"/>	1.3.3	N	①
D and O Plan	Closure Plan Submission and Content	<input type="checkbox"/>	<input type="checkbox"/>	2.5.8; 3.5.1;3.5.2;3.5.3;3.5.4	N	
	Developed Closure Plan for Approval	<input type="checkbox"/>	<input type="checkbox"/>	3.5	N	
	Operating in Accordance with Approved Design and Operation Plan	<input type="checkbox"/>	<input type="checkbox"/>	1.3.9, 3.3.2	Y	②
	Post-closure Plan Submission and Content	<input type="checkbox"/>	<input type="checkbox"/>	2.6.1; 3.6	N	
Duty to Comply	Compliance with CD Conditions ^{+SAP}	<input type="checkbox"/>	<input type="checkbox"/>	1.3.5	P	①
Fees	Solid Waste User or Annual Fees	<input type="checkbox"/>	<input type="checkbox"/>	1.7.3,1.7.4	N	
Financial Assurance	Annually Update Financial Assurance for Inflation	<input type="checkbox"/>	<input type="checkbox"/>	1.8.3(C)	N	
	Establish Adequate Financial Assurance or Provide 5 year Update to Financial Assurance	<input type="checkbox"/>	<input type="checkbox"/>	1.8.1; 1.8.3(D)	N	
	Provide Revised Cost Estimate for Financial Assurance	<input type="checkbox"/>	<input type="checkbox"/>	1.8.3(D)	N	
General Provisions	Compliance with Department-issued compliance order	<input type="checkbox"/>	<input type="checkbox"/>	1.9.2	N	
	Compliance with other Department rules or local ordinances	<input type="checkbox"/>	<input type="checkbox"/>	2.1.1	N	
Operating Requirements	Compliance with Approved Waiver conditions	<input type="checkbox"/>	<input type="checkbox"/>	1.5	N	
	Knowing Receipt of Hazardous Waste	<input type="checkbox"/>	<input type="checkbox"/>	2.1.2	N	
Personnel Training	Conduct Personnel Training for Prohibited Waste Recognition	<input type="checkbox"/>	<input type="checkbox"/>	2.1.2(B)(3)	N	
Recordkeeping	Maintain Operating Record with all Required Elements	<input type="checkbox"/>	<input type="checkbox"/>	2.4; 3.4; 2.1.18(B)	Y	③
Reporting	Notify the Dept of a Release	<input type="checkbox"/>	<input type="checkbox"/>	2.1.18(A)	N	
	Submit Construction / Quality Assurance Report for Approval	<input type="checkbox"/>	<input type="checkbox"/>	3.2.7, 3.3.3	N	
Waste Characterization,Acceptan	Exclude Hazardous Waste	<input type="checkbox"/>	<input type="checkbox"/>	2.1.2(A)	N	
	Have and Follow Waste Characterization Plan	<input type="checkbox"/>	<input type="checkbox"/>	2.1.2(C)(2)	N	
	Update Waste Characterization Plans for Required Disposal Prohibitions	<input type="checkbox"/>	<input type="checkbox"/>	16.6.6	N	
Site Review						
Certificate of Designation	Illegal Disposal	<input type="checkbox"/>	<input type="checkbox"/>	1.3.3, 30-20-102	N	
Cover	Ensure Adequate Cover is Available Throughout Site Life	<input type="checkbox"/>	<input type="checkbox"/>	3.3.5	N	
	Place Adequate Cover	<input type="checkbox"/>	<input type="checkbox"/>	2.1.10; 3.3.4;3.3.5	Y	④ ⑤
Monitoring - Explosive Gas	Conduct Explosive Gas Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	2.3.1; 2.3.2 ; 2.3.4; 3.4(C)	N	
	Properly Respond to an Explosive Gas Exceedance	<input type="checkbox"/>	<input type="checkbox"/>	2.3.3	N	
Monitoring - Ground Water	Compliance With Ground Water Protection Standards	<input type="checkbox"/>	<input type="checkbox"/>	2.1.15	P	⑥
	Implement and Maintain a Groundwater Monitoring Program	<input type="checkbox"/>	<input type="checkbox"/>	2.2	N	

Facility: MILNER LANDFILLInspection Date: 5/23-24/17

Page 2 of 2

Landfill

Inspector(s): B. LONG; C. STOVAK

Functional Category	Requirement Description	Not Insp	N/A	Citation	Violation Y/N/P	Note Reference
Nuisance Conditions Control	Adequately Fence Site and Prevent Debris From Escaping and Accumulating	<input type="checkbox"/>	<input type="checkbox"/>	2.1.7; 2.1.11	N	
	Control Nuisance Conditions: <u>WINDBLOWN TRASH PREVALENT W/IN FACILITY</u>	<input type="checkbox"/>	<input type="checkbox"/>	2.1.3, 2.1.7; 2.1.11	Y	⑦
	No Unauthorized Burning	<input type="checkbox"/>	<input type="checkbox"/>	2.1.9	N	
Operating Requirements	Adequate amounts of water	<input type="checkbox"/>	<input type="checkbox"/>	3.3.6	N	
	Co-Disposal of Sludge at the Working Face	<input type="checkbox"/>	<input type="checkbox"/>	2.1.13	N	
	Ensure Adequate Water is Available for Construction and to Minimize Nuisance Conditions	<input type="checkbox"/>	<input type="checkbox"/>	3.3.6	N	
	Operate Leachate Collection and Removal System, Including Monitoring for Leachate Depth on Liner	<input type="checkbox"/>	<input type="checkbox"/>	3.2.5(D)	Y	⑧
	Place Waste in Most Dense Volume via Compaction or Other Approved Method	<input type="checkbox"/>	<input type="checkbox"/>	2.1.10	N	
	Restricted Unloading Area, Waste in Smallest Area, Working Face Size	<input type="checkbox"/>	<input type="checkbox"/>	2.1.10	N	⑨
	Wind Speed Monitoring to Cease Operation During High Wind Warning	<input type="checkbox"/>	<input type="checkbox"/>	2.1.11	N	
		<input type="checkbox"/>	<input type="checkbox"/>			
Security	Control Access and Provide Site Security	<input type="checkbox"/>	<input type="checkbox"/>	2.1.8	N	
Surface Water Control	Maintain Stormwater Run-on and Run-off Control System	<input type="checkbox"/>	<input type="checkbox"/>	2.1.6; 3.2.6	Y	⑩
	Prevent Ponding of Water	<input type="checkbox"/>	<input type="checkbox"/>	2.1.10	Y	⑪
Waste Characterization, Acceptance	Disposal of Liquid Waste	<input type="checkbox"/>	<input type="checkbox"/>	2.1.14	N	
	Motorized and Electronic Equipment Disposal Prohibition	<input type="checkbox"/>	<input type="checkbox"/>	16	N	
	No Acceptance of Wastewater Treatment Plants Sludge, Septic Tank Pumpings or Chemical Toilet Waste Without Approval	<input type="checkbox"/>	<input type="checkbox"/>	2.1.12	N	
Water Protection	No Disposal of Waste Below or Into Surface Water or Groundwater	<input type="checkbox"/>	<input type="checkbox"/>	2.1.17	Y	⑫
	Prevent Water Pollution at or Beyond the Point of Compliance	<input type="checkbox"/>	<input type="checkbox"/>	2.1.4; 2.1.5	N	⑬

Site-Specific Engineering Design and Operation Plan Requirements:

Landfill

Note/Regulation Reference #	Comments and Deficiency Requests	Request Date	RTC Date
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① FACILITY HAS A CD ISSUED BY ROUTT COUNTY ON 9/14/2010; OPERATING CONDITIONS ARE Laid OUT IN A SPECIAL USE PERMIT (S.U.P.) ISSUED BY ROUTT COUNTY (AS NOTED ON CD PERMIT # PP2010-014). THE SUP WAS FURTHER UPDATED W/ PERMIT # (PP2014-066) + AMENDMENTS FURTHER W/ PERMIT # PL-15-1016. THERE ARE 37 OPERATING CONDITIONS IN THE CURRENT PERMIT (1-12 GENERAL; 13-37 SPECIAL CONDITIONS). COPY OF S.U.P. ON FILE AT MILNER WAS NOT SIGNED. SCOTT COVANN WILL CHECK W/ ROUTT COUNTY PLANNING TO SEE IF THIS IS THE MOST CURRENT APPROVED SUP, + ADDRESS POTENTIAL CONFLICTS BTWN S.U.P. + EOP DURING CURRENT REVISION TO ROP + S.U.P.



COLORADO DEPARTMENT of PUBLIC HEALTH ENVIRONMENT
Hazardous Materials and Waste Management Division
SOLID WASTE DISPOSAL SITE AND FACILITY INSPECTION

Time In: 8:30 AM; 8:30 AM

Time Out: 6:00 PM;

Page 1 of 2

Facility: MILNER LANDFILL

Inspection Date: 5/23-24/17

Composting

Inspector(s): B. Long; C. Stouffer

Functional Category	Requirement Description	Not Insp	N/A	Citation	Violation Y/N/P	Note Reference
Record Review						
Certificate of Designation	Certificate of Designation and Records	<input type="checkbox"/>	<input type="checkbox"/>	14.1.3(A) - (B); 14.7.1(K)	N	
	Illegal Disposal	<input type="checkbox"/>	<input type="checkbox"/>	1.3.3, 30-20-102	N	
Closure/Post-closure	Closure Plan	<input type="checkbox"/>	<input type="checkbox"/>	14.8	N	
	Construction QA_QC Plan Implementation	<input type="checkbox"/>	<input type="checkbox"/>	14.3.2(A)	N	
Construction Quality Assurance	Construction QA_QC Report	<input type="checkbox"/>	<input type="checkbox"/>	14.3.2(C)	N	
	Composting Plan for Class IV and V	<input type="checkbox"/>	<input type="checkbox"/>	14.11	N	
D and O Plan	D and O Plan Change	<input type="checkbox"/>	<input type="checkbox"/>	1.3.9	N	
	D and O Plan Submission	<input type="checkbox"/>	<input type="checkbox"/>	14.1.3(C); 14.10	N	
Duty to Comply	Duty to Comply	<input type="checkbox"/>	<input type="checkbox"/>	1.3.5, 14.4	N	
Fees	Solid Waste User or Annual Fees	<input type="checkbox"/>	<input type="checkbox"/>	1.7.3, 1.7.4	N	
Ground Water Monitoring	Ground Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(L)	N	
Operating Requirements	Approved Waivers	<input type="checkbox"/>	<input type="checkbox"/>	1.5	N	
Personnel Training	Personnel Training	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(J); 14.7.1(M)	N	
Preparedness and Prevention	Contingency Plan	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(G)	N	
	Fire Protection Plan	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(H)	Y	(1)
Recordkeeping	Recordkeeping	<input type="checkbox"/>	<input type="checkbox"/>	14.7.1	N	
Reporting	Reporting	<input type="checkbox"/>	<input type="checkbox"/>	14.7.3	N	
Site Review						
Closure/Post-closure	Post-closure Care and Maintenance	<input type="checkbox"/>	<input type="checkbox"/>	14.9, 2.6.1	N	
Construction Quality Assurance	No Operation prior to Department Approval	<input type="checkbox"/>	<input type="checkbox"/>	14.3.2(D)	N	
Financial Assurance	Financial Assurance	<input type="checkbox"/>	<input type="checkbox"/>	1.8; 14.3.3(B); 14.7.1(I)	N	
Ground Water Monitoring	Ground Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	2.2.1(A); 2.2; 14.7.1(C)	N	
Nuisance Conditions Control	Nuisance Conditions Control	<input type="checkbox"/>	<input type="checkbox"/>	2.1.3; 2.1.7; 2.1.11; 14.3.3(D)	N	
	Nuisance Conditions Control	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(D); 2.1.3; 2.1.7; 2.1.11	N	
	Odor Control	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(I)	N	
Operating Requirements	Pathogen Reduction Methodology	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(K)	P	(2)
	Work pad Area	<input type="checkbox"/>	<input type="checkbox"/>	14.3.1(C)	Y	(3)
Security	Access Control_Signage_Perimeter Fence	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(E)-(F); 2.1.8	N	
Surface Water Control	Stormwater_Leachate pond management	<input type="checkbox"/>	<input type="checkbox"/>	14.3.1(B)(6)-(7); 14.3.3(C)	N	
	Surface Water Control	<input type="checkbox"/>	<input type="checkbox"/>	14.3.1(B); 14.3.3(C); 2.1.6; 2.1.10	Y	(4)
Waste Analysis,Acceptance,HW E	Waste Analysis,Acceptance,HW Exclusion	<input type="checkbox"/>	<input type="checkbox"/>	14.5	N	
	Waste Analysis,Acceptance,HW Exclusion	<input type="checkbox"/>	<input type="checkbox"/>	14.2	N	

Composting

Inspector(s): D. Long; C. Stovall

Functional Category	Requirement Description	Not Insp	N/A	Citation	Violation Y/N/P	Note Reference
	Waste Analysis, Acceptance, HW Exclusion	<input type="checkbox"/>	<input type="checkbox"/>	14.3.3(A)	<input type="checkbox"/>	

Site-Specific Engineering Design and Operation Plan Requirements:

Composting

Note/Regulation Reference #	Comments and Deficiency Requests	Request Date	RTC Date
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- ① FIRE PROTECTION PLAN NOT PRESENT IN COMPOSTING ROOM
SAME VIOLATION AS NOTED DURING 5/12/16 INSPECTION EVENT.
REQ ACTION IS THE SAME = ADDRESS DURING CURRENT ROOM REVISION
- ② LARGE PILES OF COMPOST PRESENT THAT HAS NOT MET FINAL FINISHED COMPOST REQUIREMENTS. LUKE SCHNEIDER HAS INDICATED THAT HE WILL LOOK INTO BENEFICIAL USE OF THIS MATERIAL UNDER A BENEFICIAL USE DETERMINATION WORKING W/ MICHAEL BRILLOFF OF CDNR
- ③ WORK PAD AREA DOES NOT HAVE WOOD CHIP LAYER REQ IN ROOM
BUT IT HAS BEEN GRADED TO MAINTAIN A SLOPE AS REQUESTED AT THE TIME OF 2016 INSPECTION. STORAGE OF HORSE MANURE / FOOD WASTE WAS NOTED TO BE OCCURRING OFF OF WORKING PAD. REQUEST THIS MATERIAL BE MOVED ONTO WORK PAD ASAP.
- ④ SURFACE WATER / CONTACT WATER IN AREA OF FINISHED COMPOSTING IS POOLING
INDICATING THE AREA IS NOT APPROPRIATELY GRADED / SLOPED TOWARDS COMPOST LEACHATE COLLECTION POND.
BECAUSE MAJORITY OF COMPOST AREA HAS BEEN SIGNIFICANTLY IMPROVED SINCE 2016 INSPECTION.

Milner Landfill Routine Compliance Inspection (5/23-24/17)

Notes from Landfill Checklist (#'s below correspond to Note References on Landfill Checklist):

- 1) Facility has a CD issued by Routt County on 9/14/2010. Operating conditions are laid out in a Special Use Permit (SUP) issued by Routt County (as noted on CD Permit #PP2010-014). The SUP was further updated w/ permit #PP2014-066 and amended further with permit #PL-15-1016. There are 37 operating conditions in the current permit (1-12 general; 13-37 specific conditions). The copy of the SUP on file at Milner was not signed. Scott Cowman will check with Routt County Planning to see if this is the most current approved SUP and address potential conflicts between SUP and EDOP during current revision to EDOP and SUP (underway now).

Scott Cowman communicated by email on 5/26/17 that the PL-15-1016 is the most current SUP and provided a signed copy.

- 2) The facility was noted to not be operating in accordance with its design and operations plan (EDOP) at the time of the inspection. Specific findings are listed below:
 - a. The facility is still operating solidification basin ash storage area outside of design parameters (as noted during 2016 inspection),
 - b. Ash was noted to be prevalent in areas surrounding the solidification basin (from spillage and/or tracking),
 - c. The facility has not performed reactivity/compatibility testing for incoming waste streams to the solidification basin,
 - d. The facility accepted waste at the solidification basin outside of the operating hours for the facility,
 - e. The facility will not be able to comply with the requirement for 5 testing events for the liner in the solidification basin due to the fact that the size of the coupon for testing is much reduced from the original designed size and the testing requires a significant portion of the coupon for each event,
 - f. The facility has stockpiled soil outside of their CD boundary near the SE corner of the facility,
 - g. Monitoring well MW-4 is located in a substantially different location than what is shown in the EDOP.
- 3) The facility was not maintaining an operating record with all required elements at the time of the inspection. Specific findings are listed below:
 - a. The facility has not kept adequate records of leachate testing for the past calendar year, Luke Schneider has indicated that this is because the correct testing parameters were just recently understood, but this was noted during the 2016 inspection event,
 - b. Results of prior testing events on the "coupon" installed in the solidification basin liner system could not be produced by the facility. The coupon is much reduced from the specified installation size seeming to indicate one or two testing events have occurred in the past,
 - c. The operations log for the solidification basin was noted to be incomplete for many entries.
- 4) The facility was noted to not have placed adequate cover in several instances. Specific examples are listed below:

- a. Exposed waste was noted to be present near the working face (insufficient daily cover),
 - b. Exposed waste was noted to be present near the new MRF building where a slope had been pulled back,
 - c. Exposed waste was noted to be present at the eastern edge of the MOD 2-3 areas where the new expansion cells 6A and 7A have been constructed. This is the area where the new liners for MODs 6A and 7A have been tied into existing liners in the MOD 2-3 area,
 - d. Exposed waste was noted on the East side of Pit 6 in multiple locations. Additionally, there was noted to be insufficient vegetation at the crest of the Pit 6 area.
- 5) The facility was noted to not have placed adequate cover in the friable asbestos disposal area. Two waste bags were visible at the ground surface within the asbestos area indicating insufficient cover has been placed.
- 6) The facility is in an assessment monitoring period after detection of an SSL in groundwater monitoring well MW-4.
- 7) Windblown trash was noted to be prevalent at the facility during this inspection event. Several areas were noted to have windblown trash present including:
- a. Storm water ditches at the east and west sides of the MOD 6A and 7A expansion areas,
 - b. Within expansion area 6A and 7A,
 - c. The eastern portion of the facility (pit 6 area).
- It should be noted that only minor windblown trash was observed at the property line and/or beyond the property line to the east.
- 8) Leachate head on the liner system was checked at the MOD1 sump at the time of the inspection. Results indicated that there was 1.43 feet of head on liner in violation of the allowed maximum of 1' of head on the liner system.
- 9) At the time of the inspection it was noted that the current working face was adequately sized. However, it was noted by visual observation and also from comments from Luke Schneider that the working face had previously been too large to accommodate adequate daily cover and appropriate management.
- 10) The storm water control system was not being adequately maintained at the time of the inspection.
- a. A couple of the facility's storm water management ditches appeared to require cleanout,
 - b. It was noted that storm water/runoff from the facility's snowmelt area was not being adequately controlled and was being allowed to discharge to surface waters,
 - c. The facility did not have appropriate sediment control in place at the West borrow area.

- 11) Ponding of water was noted to be present near the working face of the landfill. Additionally, ponding of contact water was noted to be present near the piles of finished compost (off composting pad). The facility did receive a precipitation event ahead of this inspection, but adequate grading could eliminate this ponding in most instances.
- 12) Waste was noted to be present in surface water/groundwater in the Doug's Drainage area. It appeared as though a load had been historically dumped in this area, and there was a large equipment tire present in this area as well.

Notes from Composting Checklist:

- 1) A fire protection plan was not present in the facility's composting EDOP. This same violation was noted in the 2016 inspection event. Requested action is the same as 2016; address this during current EDOP revision that is underway.
- 2) Large piles of compost were present that had not met the final finished compost requirements. Luke Schneider has indicated that he will look into getting a beneficial use of this material under a beneficial use determination working with Michael Bankoff of CDPHE.
- 3) Work pad area does not have wood chip layer required in EDOP, but the work pad has been graded to maintain a slope as requested at the time of the 2016 inspection. Storage of horse manure/food waste was noted to be occurring off of working pad. Request this material be moved onto working pad ASAP.
- 4) Surface water / contact water in area of finished compost is ponding indicating the area is not appropriately graded/sloped towards the compost leachate collection pond.

Compliance Assistance Items:

- 1) Composting materials must be taken to finish or beneficially used. A large quantity of composted material (it was unclear at the time of the inspection if the material was finished compost, but it was not screened) has been applied to the South end of the Pit 5 area. All composted material must meet finished compost specifications, or a beneficial use agreement must be procured from the Division in order to use "unfinished" compost as a soil amendment.
- 2) The green waste noted in the compliance assistance section of the inspection report generated after the 2016 inspection event has not appeared to have been addressed. The storage of green waste in its current location is not contemplated in the facility's EDOP, and therefore could be considered to be improper storage/disposal of this material. It was noted in 2016 that this could be determined to be a deficiency after subsequent inspection events.
- 3) Facility representative Luke Schneider said that the facility may remove a culvert that conveys storm water from an area along the western edge of the landfill. This would be done to install a drainage ditch to eliminate sheet flow of storm water running over the buried culvert onto the western haul road of the facility. If the facility removes this culvert to make the drainage ditch continuous the Division recommends additional pot holes be dug (as they were to the North of this location) to ascertain the limits of

waste and the western boundary of the liner system. The findings of this operation should be reported to the Division and Routt County.

- 4) Due to a "land swap" with an adjacent land owner, several of the facility's up-gradient ground water monitoring wells and at least one gas probe are now off of the landfill property. Because the groundwater wells are up-gradient of the facility, they do not need to be located on property owned by the facility. The facility can either procure access agreements for these wells or relocate them onto facility property. Access agreements must be placed in the facility's operating record and EDOP (and also provide these agreements to the Division and Routt County).
- 5) There are large areas on the North and West sides of the Phase I area that are at a 4:1 slope. These areas are in intermediate closure and have been seeded (vegetation is coming in, but not fully established yet). Due to the size and sloping of these areas the Division predicts that erosion rilling will become a significant problem in these areas (minor erosion rills are present that will likely only become worse over time). The final cover design specifications for these areas include the installation of tack-on-berms to control the flow of water off these slopes. The Division recommends placing final cover on these slopes and installing the tack-on-berms as designed as soon as practically possible to eliminate the need for ongoing maintenance to address erosion issues on these slopes.
- 6) The Division discussed the importance of controlling the size of the working face of the landfill with Compliance Officer Luke Schneider. Controlling the size of the working face is one of the primary ways in which the facility can ensure that an adequate amount of daily cover is placed, and in turn leads to less prevalence of windblown trash around the facility.

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