

Attachment 3
Closure and Post-Closure

2.0 – CLOSURE PLAN

2.1 CLOSURE SCHEDULE

The Landfill will be closed in the same Phases as the landfill is developed. Phase 1 of the closure will incorporate the area of Phase A (Cells 1, 2, & 3). As indicated in Part II – General Report, the Phases have been designated to facilitate access, development and design. The facility life has been estimated based on the first two years’ annual reports and projected forward at a rate that mirrors anticipated population growth in the area. The anticipated life of the landfill extends from a previously predicted 2034 date to 2043. Increases in waste volume are predicted at a 2 percent growth rate after an initial 5-year period when rates are less stable as the landfill becomes a known alternative for disposal in the area.

2.2 DESIGN OF FINAL COVER

As discussed previously, the final cover will consist of a minimum of two feet of soil, the top six inches of which will consist of soil suitable to sustain native vegetation. The cover soil will be seeded with indigenous grasses and cover slopes will be primarily at a 4:1 with no slopes less than 5%.

2.3 CAPACITY OF SITE IN VOLUME AND TONNAGE

The approximate Landfill capacity and projected life by Phase are presented in the following summary table:

Landfill Cell	Waste & Soil Volume (cubic yards)	Capacity (net tons of waste)	Projected Phase Life (years at 2% growth)
1	591,041	265,968	
2	582,514	262,131	
3	585,876	263,644	Phase A – 13 to14 years
4	533,504	240,076	
5	646,488	290,919	
6	816,578	367,460	Phase B – 11 to 12 years
TOTAL	3,756,000	1,690,200	Max. Total Life – 26 years

The waste tonnage numbers presented in the table are net numbers (total airspace reduced by 25% to account for cover soil usage). The detailed analysis of the landfill life is presented in Appendix D.

2.4 FINAL INSPECTION

A final inspection will be performed at the Landfill site at the termination of landfilling activities. The final inspection will determine if the Landfill meets all the closure requirements as outlined in the permit and closure plans. The final inspection will be conducted by members of the State of Utah DSHW and ONP, LLC.

3.0 – POST-CLOSURE CARE PLAN

3.1 SITE MONITORING

There are no post-closure monitoring requirements for groundwater or gas at the Landfill since it is a Class VI facility. However, other physical aspects of the Landfill will be monitored on a semi-annual basis.

Landfill topography shall be visually checked for depressions that could result in ponding or rapid erosion. Irregularities in the surface of the final cover will be regraded and revegetated as needed to protect the surface from erosion and to eliminate ponding.

Side slopes will be maintained or reestablished with a maximum gradient of 4:1 and the top slopes will be maintained at no less than 5% to prevent ponding. The frequency of monitoring may be reduced only after a successful demonstration to the Secretary that the closed landfill has stabilized.

During post-closure, run-off from the covered landfill will be directed toward ditches constructed to collect and transport runoff to the storm water detention pond. The ditches will be inspected semi-annually through the post-closure period. Repairs to the ditches and storm water detention pond will be completed as part of the maintenance activities.

3.2 CHANGES TO RECORD OF TITLE, LAND USE AND ZONING

The Washington County Recorder will be provided plats and a statement of fact concerning the location of any disposal site no later than 60 days after certification of closure. If necessary, the closed Landfill will be rezoned to conform to the existing Washington County zoning regulations after final closure. A description of the Landfill history and filled areas will be permanently appended to the record of title. Land use restrictions will be assigned to the site in compliance with existing regulations for closed landfills at the time of closure.

3.3 MAINTENANCE

Post-closure maintenance activities will be designed and implemented under the direction of a licensed professional engineer in response to results of inspections. Design decisions will be made after the first post-closure semi-annual inspection and implemented within 30 days after identification of maintenance issues. Results of post-closure maintenance shall be reported to the Director by a professional engineer licensed in the State of Utah.

Because of the arid climate in Washington County, maintenance of final covers and run-on/run-off systems should be minimal. Final cover and control structures will be inspected semi-annually as indicated previously.

Run-on/run-off control structures and final covers could be damaged by an unusually intense storm. Consequently, an unscheduled inspection will be required after any occurrence of a 25-year storm event within a five-mile radius of the site. If the post-storm inspection discloses damage, it will be appraised by a licensed engineer. The engineer will solicit bids if necessary and supervise repairs completed by ONP, LLC or a licensed contractor. Funds for payment for the repair work will be disbursed from the Financial Assurance Plan after approval by the Director.

3.4 POST-CLOSURE CONTACTS

ONP, LLC (435) 673-5610