

Attachment 4 - Closure and Post-Closure

The Annual Report Form to be used can be found at the following web address as provided by the Utah Department of Environmental Quality:

http://www.hazardouswaste.utah.gov/Adobe/SolidWaste/2008_incinerator_annual_report_form.pdf

1.6. CLOSURE PLAN

1.6.1. CLOSURE SCHEDULE

Each landfill area will be covered and closed as soon as the next area has been prepared for use. Only one unit, approximately one acre in size, will need to be covered and closed at the end of the landfill's life.

1.6.2. FINAL INSPECTION

In accordance with UAC R315-302-3 (4)(a) and (b) the owner and operator will notify the Executive Secretary of the intent to implement the closure plan in whole or part, 60 days prior to the projected final receipt of waste at the facility. Final closure activities will begin within 30 days after receipt of the final volume of waste and will be completed within 180 days from their starting time.

When the facility closure is completed, each owner or operator shall, within 90 days, submit to the Executive Secretary the following:

1. A facility closure plan signed by a professional engineer registered in the State of Utah with any modifications as necessary to represent as-built changes to final closure construction are required to be presented to the Executive Secretary; and
2. A certification by the owner and a professional engineer registered in the State of Utah, that the site has been closed in accordance with the approved closure plan.

1.6.3. RECORD OF TITLE, LAND USE, AND ZONING RESTRICTIONS

The closed landfill will be rezoned, if necessary, to conform to local regulations after closure. A description of the landfill history and filled areas will be permanently appended to the record of title no later than 60 days after certification of closure. Land use restrictions will be assigned that conform to existing regulations for closed landfills at the time of closure.

1.7. POST-CLOSURE PLAN

Santaquin City understands that post-closure care is required for a period of 30 years or as long as the Executive Secretary determines is necessary for the facility to become stabilized and to protect the human health and the environment. When post-closure activities are complete, as determined by the Executive Secretary, Santaquin City will submit a certification to the Executive Secretary, signed by the owner and a professional engineer registered in the state of Utah stating why post-closure activities are no longer necessary (i.e., little or no settlement, gas production, or leachate generation).

Because Class IVb landfills are exempt for ground water, leachate, and gas monitoring requirements, post-closure care will primarily consist of annual inspection to ensure cover integrity and the security of the facility.

Santaquin City Corporation will serve as the point of contact during the post-closure period. Contact can be made with Santaquin City at 275 West Main, Santaquin, Ut 84655, or by phone at (801) 754-3211.

1.8. COST ESTIMATES AND FINANCIAL ASSURANCE

1.8.1. CLOSURE COSTS

The cost estimates for closure are based on a third party performing the required closure activities. Estimated costs are based on the cost to close the largest area of the facility. The areas requiring final cover will be one dead animal pit and one landfill unit. The covered areas will then be re-seeded with natural vegetation.

Originally closure costs were estimated to be \$92,113.00 in previous report 2008. In a new estimate, closure costs are estimated to be \$101,377.00. Detailed closure costs are shown in Table 1.

TABLE 1: ESTIMATED CLOSURE COSTS

ITEM	UNIT/MEASURE	COST/UNIT #	UNITS	TOTAL COST
1.0 ENGINEERING				
1.1 Drone Topographic Survey and Process Data	Lump Sum	\$3,200.00	1	\$3,200.00
1.2 boundary Survey for Affidavit	Hours	\$220.00	18	\$3,960.00
1.3 Site Evaluation	Hours	\$130.00	8	\$760.00
1.4 Contract Administration, Bidding, and Award	Lump Sum	\$1,000	1	\$1,000.00
1.5 Administrative Costs, Certifications, and Affidavits	Hours	\$125.00	12	\$1,500.00
1.6 Construction Observation and Quality Control	Hours	\$90.00	20	\$1,800.00
SUBTOTAL				\$12,500.00
2.0 CONSTRUCTION				
2.1 Soils Replacement	Cubic Yards	\$15.00	600	\$9,000.00
2.2 Additional Cover Soil Import for Erosion Control	Tons	\$30.00	1,000	\$30,000.00
2.3 Seeding	Lump Sum	\$25,000.00	1	\$25,000.00
2.4 Site Grading	Hours	\$185.00	32	\$5,920.00
SUBTOTAL				\$69,920.00
Engineering and Construction				\$82,420.00
Contingency (20%)				\$16,484.00
Inflation (3%)				\$2,473.00
TOTAL CLOSURE COSTS				\$101,377.00

*Based on July 2020 cost estimate

The overall cost of closure is estimated as shown above. Additionally, land can be further developed into soccer, lacrosse, etc. fields for an estimated cost of \$120,000 to \$180,000 dependent on sprinkling systems, parking lots, and other design features.

1.8.2. POST-CLOSURE COSTS

The post-closure estimates cover a 30-year post-closure period. It is anticipated that minimal care requirements will be necessary as the site is to be re-seeded with native grasses that will not require irrigation or constant, routine maintenance. Anticipated tasks will include annual inspections, record keeping, and maintaining cover integrity.

Post-closure costs are estimated to be \$7,986.00. Detailed post closure costs are shown in Table 2.

TABLE 2: ESTIMATED POST CLOSURE COSTS

ITEM	UNIT/MEASURE	COST/UNIT	# UNITS	TOTAL COST
1.0 City Operations				
1.1 Site Inspection and Record Keeping (2 hrs annually)	Hours	\$55.00	60	\$3,300.00
1.2 Correctional Plans and Specifications (4 hrs annually)	Hours	\$33.00	120	\$3,960.00
SUBTOTAL				\$7,260.00
10% CONTINGENCY				\$726.00
TOTAL POST CLOSURE COSTS				\$7,986.00

*Based on September 2008 cost estimate

1.8.3. FINANCIAL ASSURANCE MECHANISM

The financial assurance plan is outlined below. The total estimated costs for closure and post-closure care are approximately \$109,363.00. The Total Financial Assurance costs are shown in Table 3.

TABLE3: TOTAL ESTIMATED FINANCIAL ASSURANCE COSTS

Closure Cost Total	\$101,377.00
Post Closure Cost Total	\$7,986.00
TOTAL FINANCIAL ASSURANCE	\$109,363.00

*Based on September 2008 and July 2020 cost estimate

Santaquin has put a Trust Fund in place for the closure and post-closure costs. The Trust Fund is currently fully funded. The balance of the Trust Fund as of September 2020 is \$124,872.64. The amount to be deposited into the Trust Fund this Fiscal year is \$0.00. Present value of fund is located in PTIF Account [REDACTED].

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