



State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

L. Scott Baird
Interim Executive Director

DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL
Ty L. Howard
Director

October 16, 2019

Steven Cox, Mayor
Boulder Town
P.O. Box 1329
Boulder, UT 84716

RE: Finding of Completeness and Draft Permit Renewal
Boulder Class IV Landfill-SW-188

Dear Mayor Cox:

The Division of Waste Management and Radiation Control has completed its review of the permit renewal request for the Boulder Class IV Landfill. The permit renewal has been determined complete.

The required public comment period will begin on October 18, 2019 and will end on November 18, 2019. Notice of the public comment period will be published on October 17, 2019 in the Wayne and Garfield County Insider. Following the public comment period and resolution of any comments, final action will be taken on the draft permit.

Enclosed is a copy of the draft permit and associated attachments.

If you have any questions, please call me at (801) 536-0211.

Sincerely,

F. Allan Moore, Solid Waste Program Manager
Division of Waste Management and Radiation Control

(Over)

TAM/RDP/kl

Enclosure: Draft Permit (DSHW-2019-009172)
Attachment #1 (DSHW-2019-011082)
Attachment #2 (DSHW-2019-011084)
Attachment #3 (DSHW-2019-011086)
Attachment #4 (DSHW-2019-011088)

c: Dr. David Blodgett, Health Officer, Southwest Utah Public Health Department
Gary House, Deputy Director, Southwest Utah Public Health Department
Jeremy Roberts, Environmental Health Director, Southwest Utah Public Health Department
Paul Wright, P.E., DEQ District Engineer

UTAH DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL
SOLID WASTE LANDFILL PERMIT

CLASS IVb SOLID WASTE PERMIT *RENEWAL*

BOULDER CLASS IVb LANDFILL

Pursuant to the provisions of the *Utah Solid and Hazardous Waste Act*, Title 19, Chapter 6, Part 1, Utah Code Annotated (Utah Code Ann.) (the Act) and the *Utah Solid Waste Permitting and Management Rules*, Utah Administrative Code R315-301 through 320 adopted thereunder, a Permit is issued to

Boulder City as owner and operator,

The Permittee is subject to the requirements of R315-301 through 320 of the Utah Administrative Code and the requirements set forth herein.

All references to R315-301 through 320 of the Utah Administrative Code are to regulations that are in effect on the date that this Permit becomes effective.

This Permit shall become effective _____ 2019.

This Permit shall expire at midnight _____ 2029.

Closure Cost Revision Date: _____ 2024.

Signed this ____ day of _____, 2019.

Ty Howard, Director
Division of Waste Management and Radiation Control

FACILITY OWNER/OPERATOR INFORMATION

LANDFILL NAME: Boulder Class Landfill IV Landfill

OWNER NAME: Boulder Town

OWNER ADDRESS: P O Box 1329, Boulder, Utah 84716

OWNER PHONE NO.: 435-335-7300

TYPE OF PERMIT: Class IVb Landfill

PERMIT NUMBER: 9613R3

LOCATION: The site is legally described as: Lot 6, Section 3, Tract 34 South, Range 4 East, Salt Lake Base and Meridian, containing 9.27 acres. A project location map (Exhibit 2), a patent of the property (Exhibit 3a), and a plat of the property (Exhibit 3b) further describe the location. The facility's main gate is located on State Highway 12 (111 26'41" longitude and 37 53'22" latitude).

PERMIT HISTORY Permit renewal signed **insert date signed**

The term, "Permit," as used in this document is defined in R315-301-2(55) of the Utah Administrative Code. "Director" as used throughout this Permit refers to the Director of the Division of Waste Management and Radiation Control.

This Permit consists of the signature page, Facility Owner/Operator Information section, Sections I through V, and all Attachments to this Permit.

The facility as described in this Permit consists of disposal cell for all permitted waste, Class IV disposal cells, dead animal disposal cells, and areas for storage of recyclable materials and green waste.

Compliance with this Permit does not constitute a defense to actions brought under any other local, state, or federal laws. This Permit does not exempt the Permittee from obtaining any other local, state or federal permits or approvals required for the operation of the landfill.

The issuance of this Permit does not convey any property rights, other than the rights inherent in this Permit, in either real or personal property, or any exclusive privileges other than those inherent in this Permit. This Permit does not authorize any injury to private property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations, including zoning ordinances.

The provisions of this Permit are severable. If any provision of this Permit is held invalid for any reason, the remaining provisions shall remain in full force and effect. If the application of any provision of this Permit to any circumstance is held invalid, its application to other circumstances shall not be affected.

By this Permit, the Permittee is subject to the following conditions.

PERMIT REQUIREMENTS

I. GENERAL COMPLIANCE RESPONSIBILITIES

I.A. General Operation

I.A.1. The Permittee shall operate the landfill in accordance with all applicable requirements of R315-305 of the Utah Administrative Code that are in effect as of the date of this Permit unless otherwise noted in this Permit. Any permit noncompliance or noncompliance with any applicable portions of Utah Code Ann § 19-6-101 through 126 and applicable portions of R315-301 through 320 of the Utah Administrative Code constitutes a violation of the Permit or applicable statute or rule and is grounds for appropriate enforcement action, permit revocation, modification, or denial of a permit renewal application.

I.B. Acceptable Waste

I.B.1. Construction/demolition waste as defined in R315-301-2(17) of the Utah Administrative Code;

I.B.2. Yard waste as defined in R315-301-2(87) of the Utah Administrative Code;

I.B.3. Inert waste, as defined in R315-301-2(37) of the Utah Administrative Code;

I.B.4. Waste tires, may be accepted and managed in accordance with the requirements of R315-320 of the Utah Administrative Code; and

I.B.5. Petroleum contaminated soils as allowed in R315-315-8(3) of the Utah Administrative Code; and

I.B.6. Dead animals when placed in a separate area and covered each day or placed in the working face and covered with waste immediately.

I.C. Prohibited Waste

I.C.1. Hazardous waste as defined by R315-1 and R315-2 of the Utah Administrative Code;

I.C.2. PCBs as defined by R315-301-2(53) of the Utah Administrative Code, except PCB's specified by R315-315-7(2)(a) and (c) of the Utah Administrative Code;

I.C.3. Household waste, except waste resulting from the abatement, rehabilitation, renovation and remodeling of homes and other residences;

I.C.4. Municipal waste;

I.C.5. Special waste except as specified in this Permit;

I.C.6. Regulated asbestos-containing material;

I.C.7. Industrial solid waste as defined in R315-301-2(35) of the Utah Administrative Code;

I.C.8. Commercial solid waste as defined in R315-301-2(14) of the Utah Administrative Code;

- I.C.9. Containers larger than household size (five gallons) holding any liquid, non-containerized material containing free liquids or any waste containing free liquids in containers larger than five gallons; and
- I.C.10. Any prohibited waste received and accepted for disposal at the facility shall constitute a violation of this Permit, of 19-6-101 through 125 and of R315-301 through 320 of the Utah Administrative Code.

I.D. Inspections and Inspection Access

- I.D.1. The Permittee shall allow the Director of the Division of Waste Management and Radiation Control or an authorized representative, or representatives from the Southwest Utah Health Department, to enter at reasonable times and:
 - I.D.1.a Inspect the landfill or other premises, practices or operations regulated or required under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;
 - I.D.1.b Have access to and copy any records required to be kept under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;
 - I.D.1.c Inspect any loads of waste, treatment facilities or processes, pollution management facilities or processes, or control facilities or processes required under this Permit or regulated under R315-301 through 320 of the Utah Administrative Code; and
 - I.D.1.d Create a record of any inspection by photographic, video, electronic, or any other reasonable means.

I.E. Noncompliance

- I.E.1. If monitoring, inspection, or testing indicates that any permit condition or any applicable rule under R315-301 through 320 of the Utah Administrative Code may be or is being violated, the Permittee shall promptly make corrections to the operation or other activities to bring the facility into compliance with all permit conditions or rules.
- I.E.2. In the event of noncompliance with any permit condition or violation of an applicable rule, the Permittee shall promptly take any action reasonably necessary to correct the noncompliance or violation and mitigate any risk to the human health or the environment. Actions may include eliminating the activity causing the noncompliance or violation and containment of any waste or contamination using barriers or access restrictions, placing of warning signs or permanently closing areas of the facility.
- I.E.3. The Permittee shall:
 - I.E.3.a Document the noncompliance or violation in the daily operating record, including the day the event occurred or the day it was discovered;
 - I.E.3.b Notify the Director of the Utah Division of Waste Management and Radiation Control by telephone within 24 hours, or the next business day following documentation of the event; and

- I.E.3.c Give written notice of the noncompliance or violation and measures taken to protect human health and the environment within seven days after Director notification.
- I.E.4. Within thirty days after the documentation of the event, the Permittee shall submit to the Director a written report describing the nature and extent of the noncompliance or violation and the remedial measures taken or to be taken to protect human health and the environment and to eliminate the noncompliance or violation. After review of the assessment report, the Director may order the Permittee to perform appropriate remedial measures including development of a site remediation plan for approval by the Director.
- I.E.5. In an enforcement action, the Permittee may not claim as a defense that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with R315-301 through 320 of the Utah Administrative Code and this Permit.

I.F. Revocation

- I.F.1. This Permit may be revoked if the Permittee fails to comply with any condition of the Permit. The Director will notify the Permittee in writing prior to any proposed revocation and such action shall be subject to all applicable hearing procedures established under R305-7 of the Utah Administrative Code and the Utah Administrative Procedures Act.

I.G. Attachment Incorporation

- I.G.1. Attachments to the Permit are incorporated by reference into this Permit and are enforceable conditions of this Permit, as are documents incorporated by reference into the attachments. Language in this Permit supersedes any conflicting language in the attachments or documents incorporated into the attachments.

II. DESIGN AND CONSTRUCTION

II.A. Design and Construction

- II.A.1. The landfill uses trench-style cells, with sizes varying according to need. The largest consists of 40-ft. bottom width, 4:1 side slopes, and 30-ft. depth. As each cell is filled, wastes are leveled to the extent practicable, filling any voids posing a physical hazard. Wastes are covered with soil to a minimum total depth of two feet, including six inches of topsoil, although an alternate cover system may be implemented, if it can be demonstrated it meets applicable standards. Facility Plan drawings are included in Attachment #1.
- II.A.2. The Permittee shall notify the Director upon completion of construction of any landfill cells or run-on and run-off diversion systems. No landfill cells or run-on and run-off diversion system may be used until construction is approved by the Director.
- II.A.3. The Permittee shall notify the Director of the completion of construction of any final cover system and shall provide all necessary documentation and shall apply for approval of the construction from the Director.

- II.A.4. If ground water is encountered during excavation of the landfill, the Director shall be notified immediately, and a contingency plan implemented or alternative construction design developed and submitted for approval.
- II.A.5. All engineering drawings submitted to the Director shall be stamped by a professional engineer with a current registration in Utah.
- II.B. Run-On and Run-off Control
- II.B.1. The Permittee shall construct and maintain drainage channels to effectively prevent runoff from the surrounding area from entering the landfill.
- II.B.2. Run-on control consists of a perimeter diversion dike constructed along the edges of the active area and utilizes natural topography to intercept any surface waters and channelize potential run-on away from areas containing waste. Inside the dikes, contouring which contains precipitation provides additional assurance against potential surface water impacts. The dike is constructed of native materials and has a minimum base width of four feet and a minimum height of one foot. Additional control berms may also be constructed on the edge of the construction/demolition area to separate yard waste areas.
- II.B.3. Run-off is controlled by containing accumulated precipitation within the active area. During the active life of a cell, run-on dikes also serve as run-off control berms. Contouring has been performed to channelize surface waters to appropriate areas for dissipation. After closure, final cover will be graded to promote drainage and surface flows will not be permitted to contact waste. Considering the extremely limited precipitation, native soil characteristics, and the inert nature of acceptable wastes, run-on/run-off control features for the facility are more than adequate.

III. LANDFILL OPERATION

III.A. Operations Plan

- III.A.1. The Permittee shall keep the Operations Plan included in the Attachment #2 on site at the landfill or at the location designated in section III-H of this Permit. The Permittee shall operate the landfill in accordance with the operations plan. If necessary, the Permittee may modify the Operations Plan, provided that the modification meets all of the requirements of R315-301 through 320 of the Utah Administrative Code, is as protective of human health and the environment as the Operations Plan approved as part of this Permit. Any modification must be approved by the Director as a permit modification under R315-311-2(1) of the Utah Administrative Code. The Permittee shall note any modification to the Operations Plan in the daily operating record.

III.B. Security

- III.B.1. The Permittee shall operate the Landfill so that unauthorized entry to the facility is restricted. The Permittee shall:
- III.B.1.a Lock all facility gates and other access routes during the time the landfill is closed.

III.B.1.b Have at least one person employed by the Permittee at the landfill during all hours that the landfill is open.

III.B.1.c Construct all fencing and any other access controls as shown in the Attachment #2 to prevent access by persons or livestock by other routes.

III.C. Training

III.C.1. The Permittee shall provide training for on-site personnel in landfill operation, including waste load inspection, hazardous waste identification, and personal safety and protection.

III.D. Burning of Waste

III.D.1. Except as provided in this paragraph, intentional burning of solid waste is prohibited and is a violation of R315-303-4(2)(b) of the Utah Administrative Code. The Permittee is allowed to burn material by complying with the requirements of R307-202-5 of the Utah Administrative Code. The Permittee shall perform such burning in a segregated area within the landfill site. The Permittee shall extinguish all accidental fires as soon as reasonably possible. The Permittee's non-compliance with R307-202-5 of the Utah Administrative Code, as determined by the Director, also constitutes non-compliance with this Permit.

III.D.2. The Permittee shall extinguish all accidental fires as soon as reasonably possible.

III.E. Cover

III.E.1. The Permittee shall cover the waste as necessary to prevent fires and to control vectors, blowing litter, odor, scavenging, and fugitive dust.

III.E.2. The Permittee may use an alternative cover material when the material and operation meets the requirements of R315-303-4(4)(b) through (e) of the Utah Administrative Code.

III.E.3. The Permittee shall use a minimum of six inches of earthen cover no less than once each month for all wastes received at the landfill. This cover shall consist of soil; no alternative may be used.

III.E.4. The Permittee shall record in the daily operating record and the operator shall certify, at the end of each day of operation when soil or an alternative cover is placed, the amount and type of cover placed and the area receiving cover. Cover requirements for dead animals are found in Section III-L of this Permit.

III.F. Waste Inspections

III.F.1. The Permittee shall visually inspect incoming waste loads to verify that no wastes other than those allowed by this permit are disposed in the landfill. The Permittee shall conduct a complete waste inspection at a minimum frequency of 1 % of incoming loads, but no less than one complete inspection per day. The Permittee shall select the loads to be inspected on a random basis.

- III.F.2. The Permittee shall inspect all loads suspected or known to have one or more containers capable of holding more than five gallons of liquid to ensure that each container is empty.
- III.F.3. The Permittee shall inspect all loads that the Permittee suspect may contain a waste not allowed for disposal at the landfill.
- III.F.4. The Permittee shall conduct complete random inspections as follows:
- III.F.4.a The Permittee shall conduct the random waste inspection at the working face or an area designated by the Permittee.
- III.F.4.b The Permittee shall direct that loads subjected to complete inspection be unloaded at the designated area;
- III.F.4.c Loads shall be spread by equipment or by hand tools;
- III.F.4.d Personnel trained in hazardous waste recognition and recognition of other unacceptable waste shall conduct a visual inspection of the waste; and
- III.F.4.e The personnel conducting the inspection shall record the results of the inspection on a waste inspection form as found in Attachment #3. The Permittee shall place the form in the daily operating record at the end of the operating day.
- III.F.4.f The Permittee or the waste transporter shall properly dispose of any waste that is not acceptable at the facility at an approved disposal of that type of waste.
- III.G. Self Inspections
- III.G.1. The Permittee shall inspect the facility to prevent malfunctions and deterioration, operator errors, and discharges that may cause or lead to the release of wastes or contaminated materials to the environment or create a threat to human health or the environment. The Permittee shall complete these general inspections no less than quarterly and shall cover the following areas: Waste placement, compaction, adequate cover, fences and access controls, roads, run-on/run-off controls, final and intermediate cover, litter controls, and records. The Permittee shall record the inspections in the daily operating record on the day of the inspection. The Permittee shall correct the problems identified in the inspections in a timely manner and document the corrective actions in the daily operating record.
- III.H. Recordkeeping
- III.H.1. The Permittee shall maintain and keep on file at the city of Boulder office, a daily operating record and other general records of landfill operation as required by R315-302-2(3) of the Utah Administrative Code. The landfill operator, or other designated personnel, shall date and sign the daily operating record at the end of each operating day. The Daily operating record shall consist of the following two types of documents:
- III.H.2. Records related to the daily landfill operation or periodic events including:

- III.H.2.a The number of loads of waste and the weights or estimates of weights or volume of waste received each day of operation and recorded at the end of each operating day;
- III.H.2.b Major deviations from the approved plan of operation recorded at the end of the operating day the deviation occurred;
- III.H.2.c Results of monitoring required by this Permit recorded in the daily operating record on the day of the event or the day the information is received;
- III.H.2.d Records of all inspections conducted by the Permittee, results of the inspections, and corrective actions.
- III.H.3. Records of a general nature including:
 - III.H.3.a A copy of this Permit, including the Attachments;
 - III.H.3.b Results of inspections conducted by representatives of the Director and representatives of the local Health Department, when forwarded to the Permittee;
 - III.H.3.c Closure and Post-closure care plans; and
 - III.H.3.d Records of employee training.
- III.I. Reporting
 - III.I.1. The Permittee shall prepare and submit to the Director an Annual Report as required by R315-302-2(4) of the Utah Administrative Code. The Annual Report shall include: the period covered by the report, the annual quantity of waste received, an annual update of the financial assurance mechanism, and all training programs completed.
- III.J. Roads
 - III.J.1. The Permittee shall improve and maintain all access roads within the landfill boundary that are used for transporting waste to the landfill for disposal as necessary to assure safe and reliable all-weather access to the disposal area.
- III.K. Litter Control
 - III.K.1. Litter resulting from operations of the landfill shall be minimized. The Permittee shall implement the following procedures when high wind conditions are present:
 - III.K.1.a Reduce the size of the tipping face;
 - III.K.1.b Reduce the number of vehicles allowed to discharge at the tipping face at one time;
 - III.K.1.c Orient vehicles to reduce wind effects on unloading and waste compaction;
 - III.K.1.d Reconfigure tipping face to reduce wind effect;
 - III.K.1.e Use portable and permanent wind fencing as needed; and

III.K.1.f Should high winds present a situation that the windblown litter cannot be controlled; the Permittee shall cease operations of the landfill until the winds diminish.

III.L. Disposal of Special Wastes

III.L.1. The Permittee may dispose of animal carcasses may at the landfill working face and shall cover them with other solid waste or earth by the end of the operating day on which the carcasses are received. Alternatively, the Permittee may dispose of animal carcasses in a special trench or pit prepared for the acceptance of dead animals. If a special trench is used, the Permittee shall cover animals placed in the trench with six inches of earth at the end of each operating day.

IV. CLOSURE REQUIREMENTS

IV.A. Closure

IV.A.1. The Permittee shall place the final cover of the landfill as shown in the Attachment #4. The final cover shall meet, at a minimum, the standard design for closure as specified in R315-305-5(5)(b) of the Utah Administrative Code.

IV.B. Title Recording

IV.B.1. The Permittee shall meet the requirements of R315-302-2(6) of the Utah Administrative Code by recording a notice with the Garfield County Recorder as part of the record of title that the property has been used as a landfill. The notice shall include waste disposal locations and types of waste disposed. The Permittee shall provide the Director the notice after recordation.

IV.C. Post-Closure Care

IV.C.1. The Permittee shall perform post-closure care at the closed landfill in accordance with the Post-Closure Care Plan in Attachment #4. Post-closure care shall continue until all waste disposal sites at the landfill have stabilized and the finding of R315-302-3(7)(c) of the Utah Administrative Code is made.

IV.D. Financial Assurance

IV.D.1. The Permittee shall keep in effect and active the currently approved financial assurance mechanism or another approved mechanism that meets the requirements of R315-309 of the Utah Administrative Code and is approved by the Director to cover the costs of closure and post-closure care at the landfill. The Permittee shall adequately fund and maintain the financial assurance mechanism(s) to provide for the cost of closure and post-closure until termination of financial assurance in accordance with R315-309-11 of the Utah Administrative Code.

IV.E. Financial Assurance Annual Update

IV.E.1. The Permittee shall submit an annual revision of closure and post-closure costs for inflation and financial assurance to the Director as part of the annual report as required by R315-309-2(2) of the Utah Administrative Code.

IV.F. Closure Cost and Post-Closure Cost Revision

IV.F.1. The Permittee shall submit a complete revision of the closure and post-closure cost estimates by the Closure Cost Revision Date listed on the signature page of this Permit and any time the facility is expanded, any time a new cell is constructed, or any time a cell is expanded.

V. ADMINISTRATIVE REQUIREMENTS

V.A. Permit Modification

V.A.1. Modifications to this Permit may be made upon application by the Permittee or by the Director following the procedures specified in R315-311-2 of the Utah Administrative Code. The Permittee shall be given written notice of any permit modification initiated by the Director.

V.B. Permit Transfer

V.B.1. This Permit may be transferred to a new Permittee in accordance with R315-310-11 of the Utah Administrative Code.

V.C. Expansion

V.C.1. This Permit is for the operation of a Class IVb Landfill according to the design and Operation Plan described and explained in Attachment #2. Any expansion of the current footprint designated in the description contained in Attachment #2, but within the property boundaries designated in Attachment #2, shall require submittal of plans and specifications to the Director. The plans and specifications shall be approved by the Director prior to construction.

V.C.2. Any expansion of the landfill facility beyond the property boundaries designated in the description contained in Attachment #2 shall require submittal of a new permit application in accordance with R315-310 of the Utah Administrative Code.

V.C.3. Any addition to the acceptable wastes described in Section I-B shall require a permit modification in accordance with R315-311 of the Utah Administrative Code.

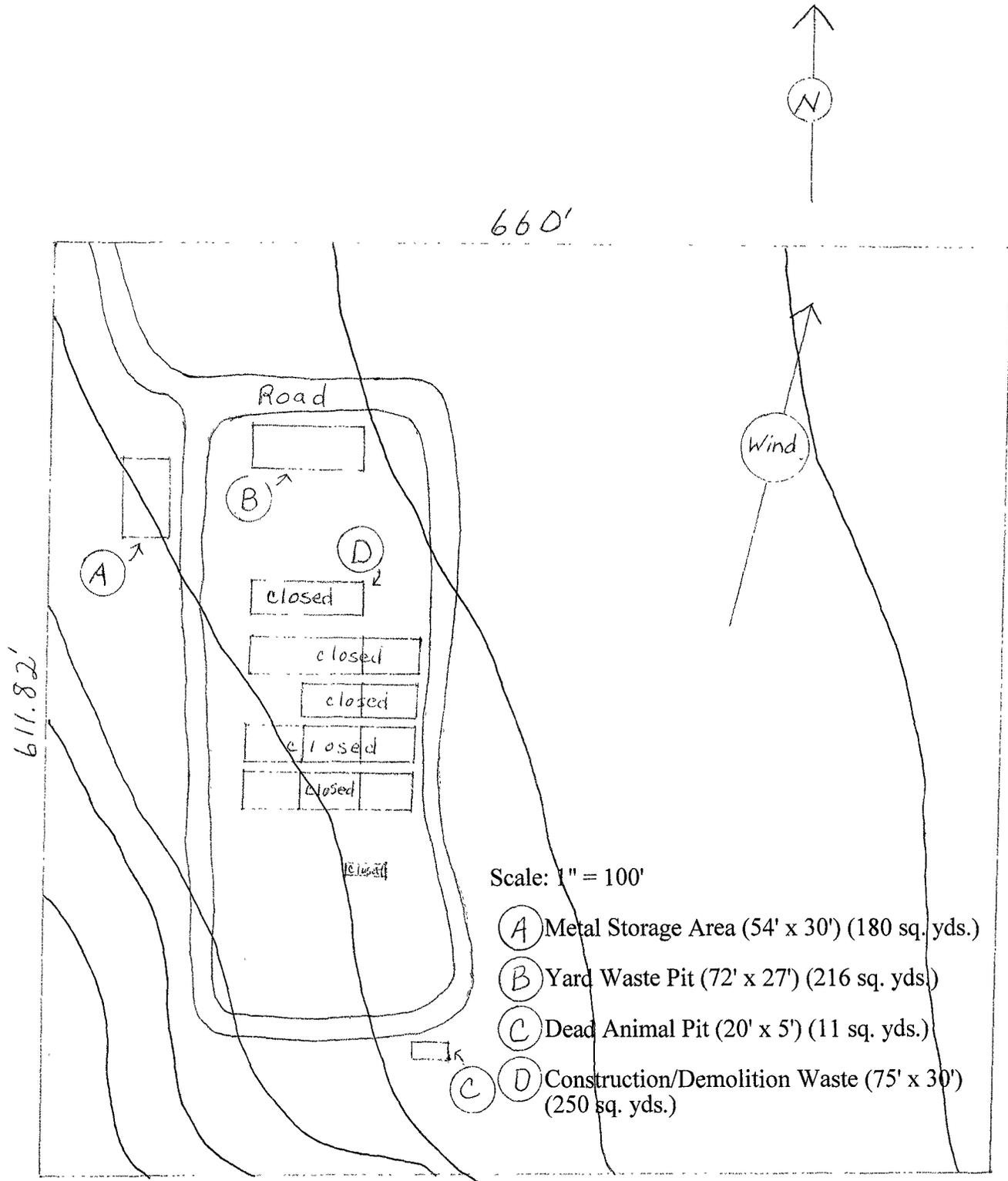
V.D. Expiration

V.D.1. If the Permittee desires to continue operating this landfill after the expiration date of this Permit, the Permittee shall submit an application for permit renewal at least six months prior to the expiration date, as shown on the signature (cover) page of this Permit. If the Permittee submits a timely permit renewal application and the permit renewal is not complete by the expiration date, this Permit shall continue in force until renewal is completed or denied.

Permit Attachments

- 1 – Landfill Design and Construction
- 2 – Operations Plan
- 3 – Inspection Forms
- 4 – Closure and Post-Closure Care

DRAFT



Boulder Town Class IV Landfill
 Exhibit 8: Topographic Map
 Two-foot Contours

PART II - GENERAL REPORT

INTRODUCTION

GENERAL DESCRIPTION

The Boulder Class IV Landfill is a natural attenuation facility designed to fulfill the current and future inert solid waste disposal needs of the Boulder area. The facility encompasses a total of 9.27 acres and contemplates service to Boulder and unincorporated areas in the immediate vicinity. Exhibit 1 is a general vicinity map depicting the site. Annual average waste volumes are estimated at less than 5 tons per day, and precipitation is less than 15 inches per year. Facility plans are included in other sections of this document; construction specifications may be forwarded under separate cover.

LEGAL DESCRIPTION

The site is legally described as: Lot 6, Section 3, Tract 34 South, Range 4 East, Salt Lake Base and Meridian, containing 9.27 acres. A project location map (Exhibit 2), a patent of the property (Exhibit 3a), and a plat of the property (Exhibit 3b) further describe the location.

The facility's main gate is located on State Highway 12 (111 26'41" longitude and 37 53'22" latitude). Lands adjacent to the facility are considered multiple use lands controlled by the Bureau of Land Management (BLM). The closest private land exists approximately 1/4 mile north and east of the site.

Garfield County's zoning ordinances apply in the vicinity of the Class IV landfill. A conditional use permit has been obtained from the County; future zoning policies and ordinances will be complied with by the Boulder Class IV Landfill as they are adopted. Exhibit 4 shows the land use and zoning classification for the Boulder Class IV Landfill and surrounding area.

WASTE TYPES/AREA TO BE SERVED

Waste accepted by the Boulder Class IV Landfill will be comprised of inert waste, construction/demolition waste, yard waste, dead animals, tires or tire-derived material, and other waste approved by the Director. The facility will not accept containerized liquids in larger than five gallon containers, bulk liquids, and sludges containing free liquids. The facility will temporarily store recyclable materials prior to transportation to regional facilities.

Special waste shall only be accepted and handled in accordance with Administrative Rule R315-

315 and subject to the conditions of this permit. Dead animals are the only special waste authorized for permanent disposal at the Boulder Class IV Landfill. Dead animals received at the facility shall be deposited in a separate disposal trench and will be covered daily with a minimum of six (6) inches of earth to prevent odors and the propagation and harborage of rodents and insects.

Bulky wastes such as car bodies, furniture, and appliances will be stored in a separate area of the landfill for future disposal at a permitted Class I, II, or V Landfill or for recycling. At least annually, these items will be removed from the Boulder Class IV Landfill for disposal or recycling. Currently, local scrap dealers are willing to accept such waste if assistance can be provided in loading the material. Other special wastes identified in the regulations will not be accepted at the facility unless specifically authorized by the Director.

The service area may consist of all lands within the legal boundaries of Garfield County. However, considering the location of the facility and additional solid waste disposal facilities being permitted in other areas of the County, it is anticipated the service area will be practically limited to residents in the Boulder area. Exhibit 5 illustrates the service area for the Boulder Class IV Landfill.

NON-COMMERCIAL STATUS

Boulder Town operates the landfill as a service to the community. The town has an employee who is present whenever the landfill is open. The employee is paid from town general funds; however, if she is required to open the landfill at hours other than those regularly scheduled, a fee is charged to cover her extra time. The fees charged do not represent a profit.

ANTICIPATED DAILY VOLUME

The Boulder Landfill is open one day a week. Based on past volumes of approximately 40 tons per year, the average daily volume is expected to be one-tenth of a ton per day, or slightly more than 3/4 of a ton per week. The population of the Boulder area is fairly stable, and an increase in the volume of waste accepted is not anticipated.

PLAN OF OPERATION

SCHEDULE OF CONSTRUCTION

The Boulder Class IV Landfill is capable of meeting inert solid waste disposal needs for the Boulder area for more than 20 years. In the 4 ½ years the landfill has been in operation, approximately 1/4 acre has been filled with construction/demolition waste. As each cell has attained its final elevation, a new one has been prepared. This practice will continue. Exhibit 7a

shows the proposed location of future cells.

ON-SITE WASTE HANDLING PROCEDURES

One of the purposes of the Boulder Class IV landfill is to expand integrated solid waste management techniques near Boulder. The facility is separated into various disposal areas including:

1. Yard Wastes
2. Construction/Demolition Wastes
3. Dead Animals
4. Recyclable Metals
5. Other Categories as Needed and Markets Develop

Yard wastes are vegetative matter resulting from landscaping, land maintenance, and land clearing operations including grass clippings, prunings, and other discarded material generated from yards, gardens, parks, farms, and similar types of facilities. This type of waste does not include garbage, paper, plastics, sludge, septage, or manure.

Yard wastes brought to the landfill are placed in the designated area, separated by type (chippable tree limbs and bushes, grass clippings, and trees, trunks and stumps). The material is held until it can be burned, chipped or placed at the working face of the landfill. All burning is done in accordance with Utah State Law and under the direction of the Town Fire Chief and only during the periods of March 30 through May 30 and September 15 through October 30. No trash, rubbish, tires, or oil is used to start the fires. Open burning is prohibited at the landfill, so yard wastes must be separated from the working area prior to burning. Separation may occur through the use of berms, trenches, roads, buffer zones, pits or appropriate fences. Trees, trunks, and stumps may be cut and used for heating fuel, slope protection, barriers, or in other approved projects. Grass clippings and chipped material may be distributed for landscaping projects, soil amendments, or other appropriate uses, including cover in other areas of the facility. Yard wastes which are not used or disposed of within one year will be transferred to the construction/demolition area for final disposal.

Construction/demolition material, including fencing designated for disposal, is brought to the working face where it is dumped and spread. Large timbers and recyclable lumber may be separated and held for reuse. This waste is covered as needed for protection against fire hazard, blowing litter, odors, and the propagation and harborage of rodents and insects. The cover material is comprised of six (6) inches of earthen material. No fires are permitted within this area of the landfill.

Dead animals are handled in accordance with administrative Rule 315-315-6. Dead animals received at the facility are deposited in a separate disposal trench. All dead animals are covered daily with a minimum of six (6) inches of earth to prevent odors and the propagation and harborage of rodents and insects. When the situation arises that dead animals must be delivered

to the facility during closed periods, generators are required to arrange for a landfill operator to be present during disposal. Permission for entry may be granted after pertinent information, including date, name of generator, number and type of animals disposed, is provided. Animals delivered to the landfill under this scenario will be covered with six (6) inches of earthen material no later than 24 hours after deposition.

Bulky wastes including large appliances, furniture, car bodies and recyclable metals are stored at the facility temporarily while a sufficient volume is being collected for transportation to a recycling facility or end user. These materials are stored in a neat and tidy manner and in an area designated for such purposes. Bulky wastes are stored for up to one year and then transported to a facility permitted for final disposal of these materials. Batteries and fluids are removed from car bodies prior to acceptance at the landfill.

Tires and tire-derived material are received and treated as construction/demolition waste until such time that the hauling to a recycle becomes feasible. No more than four (4) whole tires are accepted at one time from any generator as provided in Section 315-320-3 of the Rules. Some funding is available for hauling waste tires to a recycle and storage in a separate facility through Utah's waste tire recycling act.

Equipment used at the facility consists primarily of a grader, a dump truck, a bulldozer, and a backhoe hired by Boulder Town. When additional equipment is needed, it is hired by Boulder Town. Chippers and other processing equipment will be acquired as funds and needs dictate.

INSPECTIONS AND MONITORING

At least one employee is on site to perform inspection and monitoring functions during all times the facility is open to the public. Inspection and monitoring at the Boulder Class IV Landfill is conducted in two components: (1) routine and (2) compliance. Routine inspections are conducted on each incoming load of material as it enters the facility and is deposited to prohibit receipt of unacceptable wastes. In addition, random checks are made during deposition, spreading, and covering operations to insure protection of the environment and absence of nuisances. Waste screening inspections are made by trained personnel; operational inspection is made by supervisory landfill personnel.

Compliance inspections are conducted quarterly to assess the integrity of cover, the condition of side slopes and vegetative cover, and the impacts of erosion. In addition, the detailed quarterly inspection includes a review to verify compliance with all permit conditions and state and federal regulations.

FIRE/EXPLOSION CONTINGENCY PLAN

In the event of a fire or an explosion that prohibits deposition of incoming waste in the existing cell, the landfill will be closed, and incoming waste will be diverted to an alternate facility.

Alternate facilities may include other permitted Class IV landfills in the area, the John's Valley Landfill, the Wayne County Landfill, the Sevier County Landfill or other future landfill facilities. Upon resolution of the unexpected event, the facility will be reopened.

Landfill fires and explosions are difficult to control and require different techniques than many incidents handled by local volunteer fire departments. For this reason fires and/or explosions at the Boulder Class IV Landfill will be managed by landfill personnel. However, local fire departments will respond to provide assistance if requested by the landfill manager. The outline for procedures to follow in case of fire or explosion is:

1. Secure affected area
2. Divert incoming waste
3. Isolate fire/explosion
4. Suppress incident if possible
5. Request additional assistance if needed
6. Report and record necessary information

CORRECTIVE ACTION FOR CONTAMINATED GROUNDWATER

This section describes corrective actions to be taken by owners and operators of the Boulder Class IV Landfill to regain compliance with protection levels of the permit in the event releases are discovered and acceptable concentration limits for groundwater are exceeded.

No monitoring wells are proposed for the Boulder Class IV Landfill. However, if the concentrations of parameters in down gradient wells exceed the acceptable concentration limits as substantiated by confirmatory analyses, owners and operators of the Boulder Class IV Landfill will implement a corrective action program as outlined in R315-308.

CONTINGENCY PLAN FOR OTHER RELEASES

This section describes corrective actions to be taken by the Boulder Class IV Landfill to regain compliance with the protection levels of the permit in the event releases are discovered and acceptable concentration limits are exceeded.

When the concentration of parameters exceed acceptable limits as substantiated by confirmatory analyses, owners and operators of the Boulder Class IV Landfill will implement a corrective action program approved by the Executive Secretary.

PLAN TO CONTROL FUGITIVE DUST

Appropriate measures to prevent and control fugitive dust generated from roads, construction, general operations, and covering the waste are employed when weather conditions or climate

indicate that transport of dust off-site is liable to create a nuisance. Preventive measures include watering access roads and covering wastes with soil.

EQUIPMENT MAINTENANCE

Active collection systems for leachate and/or explosive gases are not proposed for the Boulder Class IV Landfill. Therefore, no maintenance will be required for these items. Maintenance of equipment used in day-to-day operations will be performed by landfill employees or contracted mechanics in accordance with manufacturers recommendations and industry practices.

EXCLUSION OF HAZARDOUS WASTE

As a rural Class IV landfill, the Boulder facility is in a favorable position regarding exclusion of hazardous waste. Generally, all waste is delivered by local, known generators, and the waste is observed as it is deposited. During periods the landfill is open to the public, at least one percent of the vehicles and other suspicious loads are directed to dispose of their material near the working face in a manner that permits inspection prior to unloading. The waste generator is detained while the load is inspected; if unacceptable hazardous substances are encountered, they will not be unloaded, and appropriate authorities will be contacted. Considering the population served, waste volumes generated, and complexity of the solid waste stream, these measures are considered to be adequate.

A section documenting the results of the formal inspections outlined above has been included as part of the daily record forms (Exhibits 6a and 6b). Including hazardous/PCB waste records on the daily record forms will allow landfill managers to incorporate inspections into their daily routine and will permit regulators to review inspection patterns efficiently while examining waste volumes.

DISEASE VECTOR CONTROL

The waste accepted at a Class IV landfill should not attract possible disease vector animals. The primary method for disease vector control at the Boulder Class IV Landfill is limiting wastes to those types approved by the permit and providing an appropriate cover as needed to prevent fires. The cover will consist of a six-inch minimum layer of earthen material over dead animals or an alternate cover approved by the Executive Secretary.

Rodents and other vermin are not permitted to burrow in the active area of the landfill; and trapping or extinction methods will be implemented to protect the integrity of the disease vector control program.

ALTERNATIVE WASTE HANDLING

Alternative waste handling procedures for periods when the landfill is not able to dispose of solid waste will be similar to procedures for fires and explosions. Waste will be diverted to alternate disposal sites. Alternate facilities may include other permitted Class IV landfills in the area, the John's Valley Landfill, the Wayne County Landfill, the Sevier County Landfill or other future landfills. Procedures will continue in this manner until operations at the landfill can return to normal.

In the event of equipment breakdown that cannot be repaired in a reasonable time frame, equipment will be borrowed from contributing entities or hired from local distributors. It is the intent of owners and operators to have dedicated equipment at the landfill over a period of time and to acquire appropriate backup equipment.

TRAINING AND SAFETY PLAN

Each manager and employee is required to read the landfill application and permit prior to assuming duties related to landfill operation. Safety procedures will conform to OSHA guidelines, and personnel will be encouraged to participate in additional landfill management, waste screening, safety, and first aid workshops.

REQUIREMENTS OF RULE R315-305

Most of the requirements of Rule 315-305 are discussed in other parts of this application. Those that are not are as follows:

Prevent run-on from a 25-year storm

Boulder Town will control the run-on and run-off resulting from the 25-year event from contacting solid waste and leaving the landfill. This will be accomplished through a series of best management practices. Each cell will be surrounded with berm-style stockpiling of excess excavated material. The berms will vary in height and will prevent unanticipated flow of surface waters into the active areas of the facility.

In addition to the berms, additional measures including ditches and contouring will be implemented to direct surface drainage to desired areas.

Signs

A sign as required by Rule 315-303-3(7)(d) is attached to the entrance gate of the Boulder Town Class IV Landfill.

Maintenance of Applicable Records

All records of the landfill operation will be maintained in the offices of Boulder Town. Records

will consist of the following:

1. Daily record forms showing waste received.
2. Daily record forms showing inspections for hazardous and PCB wastes.
3. Deviations from approved Plan of Operation.
4. Training and notification procedures.
5. Quarterly inspection log by landfill operator. (Exhibit 6c)
6. Cost estimates and financial assurance documentation.
7. Annual reports.
8. Closure and post-closure care plans.

Recording with County Recorder

Plats and a statement of fact concerning the location of any disposal site shall be recorded as part of the record of title with the County Recorder not later than 60 days after certification of closure. Proof of the record of title filing shall be submitted to the Executive Secretary. Records and plans specifying solid waste amounts, location and periods of operation may be kept and may be available for public inspection.

Acceptable Waste Types

The Boulder Class IV Landfill will not accept for disposal any other form of waste except construction/demolition waste, yard waste, inert waste, dead animals, tires or tire-derived materials. Recyclable metals and other commodities may be temporarily stored in designated areas of the facility until they can be transported to an authorized recycling/disposal facility.

Access Control

Owners and operators of the Boulder Class IV Landfill will employ measures to prevent the disposal of unauthorized waste by insuring that at least one person is on site during hours of operation. Unauthorized access and disposal during closed periods will be prevented by controlling entry. Locked gates, fences, natural barriers, berms, and other methods will be employed to insure access to the facility is controlled. The on-site employee will be responsible to collect scattered litter as necessary.

BOULDER TOWN CLASS IV LANDFILL
HAZARDOUS WASTE - PCB INSPECTION RECORD

Date: _____ Time: _____ Vehicle No. _____

Random Selection: (Yes / No) Suspicious Load: (Yes / No) Other: _____

Vehicle Owner: _____
Name Address
City, State Phone

Waste Origin: _____

Waste Types: _____

Describe any hazardous or PCB wastes encountered: _____

Action Taken: _____

Comments: _____

If hazardous waste or PCB waste is encountered, contact the Division of Waste Management and Radiation Control at (801) 536-0222.

Signature: _____ Date: _____

CLOSURE PLAN

CLOSURE SCHEDULE

Closure operations at the Boulder Class IV Landfill will be performed on an ongoing basis. Adequate capacity exists at the landfill to continue operation for many years. A final closing date cannot be determined at this time. Ongoing closure operations will generally be performed from May through October, the normal frost-free construction period, or as weather permits. An area that has achieved final elevation will be closed to further use. The Town will notify the Director no later than 60 days prior to the closing of an area when possible. The Town will begin implementation of the Closure Plan within 30 days following the closing of an area and will complete the Closure Plan within 180 days. Within 90 days of completing a disposal unit closure, the Town will submit to the Director as-built drawings and certification that the closure plan was followed. The as-built drawings and certification do not have to be submitted or signed by a professional engineer.

DESIGN OF FINAL COVER

Closure operations will consist of leveling, contouring, placement of appropriate covers and seeding as necessary to reduce infiltration and preserve the integrity of the completed areas of the landfill. Areas of the landfill reaching final elevation will be closed. Closure operations will include leveling and contouring using intermediate cover to reduce infiltration and ponding. The final cover slope will be no less than 2% and no more than 33%. Where possible, the final cover slope will be at least 10% in order to compensate for the potential for settling. Excess material may be stripped and utilized in other operations or left in place. After grading operations promoting drainage are complete, earthen material which increases the total cover depth to two feet including six inches of material capable of supporting vegetative growth will be installed. Upon completion of the covering operations, closed areas will be seeded. The seed mixture shall be developed after consultation with local range specialists and verifying availability of local seed markets. Seeding operations will be conducted whenever five or six new cells have been closed. Recently closed sections of the landfill will be evaluated as part of the quarterly inspection process and will be placed on post-closure status.

SITE CAPACITY

Site capacity for the entire Boulder Class IV Landfill cannot be accurately estimated. Assuming the initial 9-acre parcel, trench style operation (40-ft. bottom width, 4:1 side slopes, 30-ft. depth), three 8.5-foot lifts of waste with 1.5-foot intermediate cover, and an average density of 900 lbs. per cubic yard, original waste volumes can be estimated at 264,000 cubic yards or 118,800 tons. At this time, remaining capacity is approximately 263,500 cubic yards.

FINAL INSPECTION

The Director of the Utah Solid Division of Waste Management and Radiation Control, employee or representative of the Board or an authorized representative from the local District Health Department may, at any reasonable time the facility is open and upon presentation of acceptable credentials, enter the facility for inspection purposes. All sampling, monitoring, and testing records, including photographic, video, and electronic data, and all data, communications, and results of the inspection will be available. An inspection report will contain a list of any deficiencies and recommended actions. The inspector may also discuss problems and make preliminary recommendations prior to leaving the facility. At the time of final closure of the facility, a final inspection will be performed by appropriate regulatory agencies.

POST-CLOSURE CARE PLAN

CHANGES IN TITLE, LAND USE AND ZONING

Not less than 60 days after certification of closure, Boulder Town shall submit plats and a statement of fact concerning the location of this disposal site to the Garfield County Recorder to be recorded as part of the record of title. The Town shall then submit proof of record of title filing to the Executive Secretary.

MAINTENANCE OF COVER AND RUN/ON-RUN/OFF

As each area of the landfill reaches final elevation, it will be covered within two months as described previously in the section entitled "Design of Final Cover." It will be graded to promote drainage, and the surface shall be free from ponding and shall minimize infiltration. Post-closure care of inactive sections of the landfill will consist of maintaining the integrity of the final and vegetative covers. Any areas subject to erosion will also be corrected, and appropriate measures will be implemented to identify and eliminate the source.

During the 30-year post-closure period, semi-annual inspection of the landfill will be conducted.

POST-CLOSURE CONTACT PERSON

Because Boulder Town is administered by elected officials, the name of the person in any one position will change over the years. Therefore, the contact person will be listed by position:

Mayor
Boulder Town
PO Box 1329
Boulder, Utah 84716
Telephone number - (435) 335-7300