

Utah Class IV and VI Landfill Permit Application Form

Part I General Information APPLICANT: PLEASE COMPLETE ALL SECTIONS.					
I. Landfill Type	<input type="checkbox"/> Class IVa	<input checked="" type="checkbox"/> Class IVb	II. Application Type	<input type="checkbox"/> New Application	<input type="checkbox"/> Facility Expansion
	<input type="checkbox"/> Class VI		<input checked="" type="checkbox"/> Renewal Application	<input type="checkbox"/> Modification	
For Renewal Applications, Facility Expansion Applications and Modifications Enter Current Permit Number <u>96-11R</u>					
III. Facility Name and Location					
Name of Facility Cedar City Bulloch Pit					
Site Address (street or directions to site) 1050 North Lund Highway				County Iron	
City Cedar City		Zip Code 84720		Telephone 435-586-2912	
Township 36S	Range 11W	Section(s) 4 & 5	Quarter/Quarter Section 4 = SE 5 = SW		Quarter Section 4 = SE 5= SW
Main Gate Latitude degrees 37 minutes 41 seconds 44		Longitude degrees 113 minutes 06 seconds 38			
IV. Facility Owner(s) Information					
Name of Facility Owner Cedar City Corporation					
Address (mailing) 10 North Main					
City Cedar City		State Utah	Zip Code 84720	Telephone 435-586-2950	
V. Facility Operator(s) Information					
Name of Facility Operator Cedar City Public Works					
Address (mailing) 716 North Airport Road					
City Cedar City		State Utah	Zip Code 84721	Telephone 435-586-2912	
VI. Property Owner(s) Information					
Name of Property Owner Cedar City Corporation					
Address (mailing) 10 North Main					
City Cedar City		State Utah	Zip Code 84520	Telephone 435-586-2950	
VII. Contact Information					
Owner Contact Ryan Marshall			Title Public Works Director		
Address (mailing) 716 North Airport Road					
City Cedar City		State Utah	Zip Code 84721	Telephone 435-586-2912	
Email Address mryan@cedarcity.org			Alternative Telephone (cell or other)		
Operator Contact Jeff Hunter			Title Street Division Superintendent		
Address (mailing) 716 North Airport Road					
City Cedar City		State Utah	Zip Code 84721	Telephone 435-586-2912	
Email Address hjeff@cedarcity.org			Alternative Telephone (cell or other)		
Property Owner Contact Same as Owner			Title		
Address (mailing)					
City		State	Zip Code	Telephone	
Email Address			Alternative Telephone (cell or other)		

Utah Class IV and VI Landfill Permit Application Form

Part I General Information (Continued)																																												
<p>VIII. Waste Types (check all that apply)</p> <p><input type="checkbox"/> Landfill will accept all wastes allowed in Class IV or VI landfills Or landfill will accept only the following wastes</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Waste Type</td> <td style="width: 30%;">Combined Disposal Unit</td> <td style="width: 40%;">Monofill Unit</td> </tr> <tr> <td><input checked="" type="checkbox"/> Construction & Demolition</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Tires</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input checked="" type="checkbox"/> Yard Waste</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Animals</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Contaminated Soil</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> <p>Note: Disposal of dead animals must be approved by the Director</p>	Waste Type	Combined Disposal Unit	Monofill Unit	<input checked="" type="checkbox"/> Construction & Demolition	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Tires	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Yard Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<p>IX. Facility Area</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Facility Area.....</td> <td style="width: 10%; text-align: center;">34</td> <td style="width: 20%; text-align: right;">acres</td> </tr> <tr> <td>Disposal Area.....</td> <td style="text-align: center;">11.23</td> <td style="text-align: right;">acres</td> </tr> <tr> <td>Design Capacity</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Years.....</td> <td style="text-align: center;">10</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Approximate Years Remaining)</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Cubic Yards.....</td> <td style="text-align: center;">264,730</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Tons.....</td> <td style="text-align: center;">132,365</td> <td></td> </tr> </table>		Facility Area.....	34	acres	Disposal Area.....	11.23	acres	Design Capacity			Years.....	10		Approximate Years Remaining)			Cubic Yards.....	264,730		Tons.....	132,365	
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X. Fee and Application Documents																																												
Indicate Documents Attached To This Application		<input type="checkbox"/> Application Fee: Amount \$	Class VI Special Requirements																																									
<input checked="" type="checkbox"/> Facility Map or Maps <input type="checkbox"/> Ground Water Report	<input checked="" type="checkbox"/> Facility Legal Description <input checked="" type="checkbox"/> Closure Design	<input checked="" type="checkbox"/> Plan of Operation <input checked="" type="checkbox"/> Cost Estimates	<input checked="" type="checkbox"/> Waste Description <input checked="" type="checkbox"/> Financial Assurance <input type="checkbox"/> Documents required by UCA 19-6-108(9) and (10)																																									
I HEREBY CERTIFY THAT THIS INFORMATION AND ALL ATTACHED PAGES ARE CORRECT AND COMPLETE.																																												
Signature of Authorized Owner Representative Ryan Marshall Name typed or printed		Title Public Works Director Date 6/24/22	Address 716 North Airport Road Cedar City, Utah																																									
Email Address mryan@cedarcity.org		Alternative Telephone (cell or other)																																										
Signature of Authorized Land Owner Representative (if applicable) same as above Name typed or printed		Title	Date																																									
Address		Alternative Telephone (cell or other)																																										
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Signature of Authorized Operator Representative (if applicable) same as above Name typed or printed		Title	Date																																									
Address		Alternative Telephone (cell or other)																																										
Email Address		Alternative Telephone (cell or other)																																										

Utah Class IV and VI Landfill Permit Application Checklist

Important Note: The following checklist is for the permit application and addresses only the requirements of the Division of Waste Management and Radiation Control. Other federal, state, or local agencies may have requirements that the facility must meet. The applicant is responsible to be informed of, and meet, any applicable requirements. Examples of these requirements may include obtaining a conditional use permit, a business license, or a storm water permit. The applicant is reminded that obtaining a permit under the *Solid Waste Permitting and Management Rules* does not exempt the facility from these other requirements. Please take note of the heading of each section for the facilities that the section applies to.

An application for a permit to construct and operate a landfill is the documentation that the landfill will be located, designed, constructed, operated, and closed in compliance with the requirements of Utah Administrative Code R315-301 through 320 (*Utah Solid Waste Permitting and Management Rules*) and Utah Code Annotated 19-6-101 through 126 (*Utah Solid and Hazardous Waste Act*). The application should be written to be understandable by regulatory agencies, landfill operators, and the general public. The application should also be written so that the landfill operator, after reading it, will be able to operate the landfill according to the requirements with a minimum of additional training.

Copies of the *Solid Waste Permitting and Management Rules*, the *Utah Solid and Hazardous Waste Act*, along with many other useful guidance documents can be obtained by contacting the Division of Waste Management and Radiation Control at 801-536-0200. Most of these documents are available on the Division's web page at <https://deq.utah.gov/division-waste-management-radiation-control>. Guidance documents can be found at the solid waste section portion of the web page.

Part II Application Checklist

I. Facility General Information	
Description of Item	Location In Document
1a. General Information for All Facilities	
Completed Part I General information form above	
General description of the facility (R315-310-3(1)(b))	Page 7
Legal description of property (R315-310-3(1)(c))	Page 8
Proof of ownership, lease agreement, or other mechanism (R315-310-3(1)(c))	Existing Landfill
If the permit application is for a Class IV landfill, a demonstration that the landfill is not a commercial facility (see Utah Code Annotated 19-6-102(3) for definition of Commercial)	Existing Landfill
Waste type and anticipated daily volume (R315-310-3(1)(d))	Page 7
Intended schedule of construction (R315-302-2(2)(a))	Existing Landfill
1b. General Information for All New Or Laterally Expanding Facilities	
Documentation that the Historical Survey requirements of R315-302-1(2)(f) have been met (R315-305-4(1)(b)(vi))	
Name and address of all property owners within 1000 feet of the facility boundary (R315-310-3(2)(i))	
Documentation that a notice of intent to apply for a permit has been sent to all property owners listed above (R315-310-3(2)(ii))	

Utah Class IV and VI Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Name of the local government with jurisdiction over the facility site (R315-310-3(2)(iii))	Page 4
<i>Ic.</i> Location Standards for New Or Laterally Expanding Class IVa Landfills (R315-305-4(1)(a))	N/A
Land use compatibility	
Maps showing the existing land use, topography, residences, parks, monuments, recreation areas or wilderness areas within 1000 feet of the site boundary	
Certifications that no ecologically or scientifically significant areas or endangered species are present in site area	
Maps showing the location of dwellings, residential areas, other structures, and historic structures.	
List of airports within five miles of facility and distance to each	
Geology	
Geologic maps showing significant geologic features, faults, and unstable areas	
Maps showing site soils	
Surface water	
Magnitude of 24 hour 25 year and 100 year storm events	
Average annual rainfall	
Maximum elevation of flood waters proximate to the facility	
Maximum elevation of flood water from 100 year flood for waters proximate to the facility	
Wetlands	
Ground water	
<i>Id.</i> Location Standards for New Or Laterally Expanding Class IVb and VI Landfills	N/A
Floodplains as specified in R315-302-1(2)(c)(ii) (R315-305-4(1)(b)(i))	
Wetlands as specified in R315-302-1(2)(d) (R315-305-4(1)(b)(ii))	
The landfill is located so that the lowest level of waste is at least ten feet above the historical high level of ground water (R315-305-4(1)(b)(iii))	
Geology as specified in R315-302-1(2)(b)(i) and (iv) (R315-305-4(1)(b)(iv))	
Demonstration that the lowest level of waste will be ten feet above the historic high ground water elevation	
<i>Ie.</i> Additional Location Standards for New Or Laterally Expanding Class IVb and VI Landfills Or Landfills Requesting That Dead Animals Be Added As A New Waste Stream (R315-305-4(1)(a)(v))	N/A
Maps showing the existing land use, topography, residences, parks, monuments, recreation areas or wilderness areas within 1000 feet of the site boundary	

Utah Class IV and VI Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Certifications that no ecologically or scientifically significant areas or endangered species are present in site area	Existing Landfill
Maps showing the location of dwellings, residential areas, other structures, and historic structures.	Appendix
List of airports within five miles of facility and distance to each	Page 13
If. Plan Of Operations for All Facilities (R315-310-3(1)(e) and R315-302-2(2))	
Description of on-site waste handling procedures and an example of the form that will be used to record the weights or volumes of waste received (R315-302-2(2)(b) And R315-310-3(1)(f))	Page 8-9
Schedule for conducting inspections and monitoring, and examples of the forms that will be used to record the results of the inspections and monitoring (R315-302-2(2)(c), R315-302-2(5)(a), and R315-310-3(1)(g))	Page 10-11
Contingency plans in the event of a fire or explosion (R315-302-2(2)(d))	Page 9
Plan to control fugitive dust generated from roads, construction, general operations, and covering the waste (R315-302-2(2)(g))	Page 16
Plan for litter control and collection (R315-302-2(2)(h))	N/A - Construction demolition debris, dirt, rocks, tree limbs only, if for some reason litter is present, we will clean it up.
Procedures for excluding the receipt of prohibited hazardous or PCB containing waste (R315-302-2(2)(j))	Page 10
Procedures for controlling disease vectors (R315-302-2(2)(k))	N/A - Landfill does not have food for vectors
A plan for alternative waste handling (R315-302-2(2)(l))	Page 10
A general training plan for site operations (R315-302-2(2)(o))	Page 11
Any recycling programs planned at the facility (R315-303-4(6))	N/A
Any other site-specific information pertaining to the plan of operation required by the Director (R315-302-2(2)(p))	N/A
Ig. Additional Plan Of Operation Requirements for Class IVa Facilities	
Corrective action programs to be initiated if ground water is contaminated (R315-302-2(2)(e))	N/A
II Facility Technical Information	
IIa. Maps for All Facilities	
Topographic map drawn to the required scale with contours showing the boundaries of the landfill unit, ground water monitoring well locations, gas monitoring points, and the borrow and fill areas (R315-310-4(2)(a)(i))	Appendix
Most recent U.S. Geological Survey topographic map, 7-1/2 minute series, showing the waste facility boundary; the property boundary; surface drainage channels; any existing utilities and structures within one-fourth mile of the site; and the direction of the prevailing winds (R315-310-4(2)(a)(ii))	Appendix

Utah Class IV and VI Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
<i>IIb. Geohydrological Assessment for Class IVa Landfills (R315-310-4(2)(b))</i>	N/A
Local and regional geology and hydrology including faults, unstable slopes and subsidence areas on site (R315-310-4(2)(b)(i))	
Evaluation of bedrock and soil types and properties including permeability rates (R315-310-4(2)(b)(ii))	
Depth to ground water (R315-310-4(2)(b)(iii))	
Quantity, location, and construction of any private or public wells on-site or within 2,000 feet of the facility boundary (R315-310-4(2)(b)(v))	
Tabulation of all water rights for ground water and surface water on-site and within 2,000 feet of the facility boundary (R315-310-4(2)(b)(vi))	
Identification and description of all surface waters on-site and within one mile of the facility boundary (R315-310-4(2)(b)(vii))	
For an existing facility, identification of impacts upon the ground water and surface water from leachate discharges (R315-310-4(2)(b)(viii))	
Calculation of site water balance (R315-310-4(2)(b)(ix))	
<i>IIc. Engineering Report, Plans, Specifications, And Calculations for All Facilities</i>	
Unit design to include cover design; fill methods; and elevation of final cover including plans and drawings signed and sealed by a professional engineer registered in the State of Utah, when required (R315-310-3(1)(b) and R315-310-4(2)(c)(iii))	Appendix
Design and location of run-on and run-off control systems (R315-310-4(2)(c)(viii))	Appendix & Page 16
Anticipated facility life and the basis for calculating the facility's life (R315-310-4(2)(c)(ii))	Page 13
Engineering reports required to meet the location standards of R315-305-4 including documentation of any demonstration or exemption made for any location standard (R315-310-4(2)(c)(i))	N/A
Identification of borrow sources for final cover (R315-310-4(2)(c)(iv))	Page 12
Run-off collection, treatment, and disposal and documentation to show that any treatment system is being or has been reviewed by the Division of Water Quality (R315-310-4(2)(c)(v) and R315-310-3(1)(i))	Page 16
<i>IIId. Closure Requirements for All Facilities</i>	
CLOSURE PLAN (R315-310-3(1)(h))	Page 12
Closure schedule (R315-310-4(2)(d)(i))	Page 12
Design of final cover (R315-310-4(2)(c)(iii))	Page 12

Utah Class IV and VI Landfill Permit Application Checklist

I. Facility General Information	
Description of Item	Location In Document
Capacity of site in volume and tonnage (R315-310-4(2)(d)(ii))	Page 13
Final inspection by regulatory agencies (R315-310-4(2)(d)(iii))	N/A
IIe. Post-Closure Requirements for All Facilities	
POST-CLOSURE CARE PLAN (R315-310-3(1)(h))	Page 12
Changes to record of title, land use, and zoning restrictions (R315-310-4(2)(e)(v))	Page 13
Maintenance activities to maintain cover and run-on/run-off control systems (R315-310-4(2)(e)(iii))	Page 16
List the name, address, and telephone number of the person or office to contact about the facility during the post-closure care period (R315-310-4(2)(e)(vi))	Page 4
IIIf. Financial Assurance for All Facilities (R315-310-3(1)(j))	
Identification of closure costs including cost calculations (R315-310-4(2)(d)(iv))	Page 11
Identification of post-closure care costs including cost calculations (R315-310-4(2)(e)(iv))	Page 11
Identification of the financial assurance mechanism that meets the requirements of Rule R315-309 and the date that the mechanism will become effective (R315-309-1(1) and R315-310-3(1)(j))	Page 12

Revised 1/12/22

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**BULLOCH PIT
CLASS IVb
LANDFILL PERMIT RENEWAL
APPLICATION**

Permit No. 96-11R

Prepared by:
Cedar City Corporation
Engineering Department
10 North Main
Cedar City, Utah 84720
435-586-2963
Public Works Department
716 North Airport Road
Cedar City, Utah 84721
435-586-2912

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a. Site Vicinity Map (U.S. Geological Survey Topographical Map)	
b. Landfill Site Map	
c. Cell Design and Run-Off Control (III Typical Sections)	
d. Bulloch Pit Closure and Post-Closure Costs	

PART I
GENERAL DATA

PART I – GENERAL DATA

- 1. Name of Facility: Bulloch Pit
- 2. Site Location: Approximately 1200 North Lund Highway
- 3. Facility Owner: Cedar City Corporation
- 4. Facility Operator: Cedar City Public Works Department
- 5. Contact Person: Ryan Marshall
Address: 716 North Airport Road
Cedar City, Utah 84721

Telephone: 435-586-2912
- 6. Type of Facility:
 - Non-Commercial
 - Commercial
 - Initial Application
 - Permit Renewal
Original Permit No. 9611
- 7. Property Ownership
 - Presently Owned by Applicant
 - To Be Purchased by Applicant
 - To Be Leased by Applicant
- 8. Certification of Submitted Information

Ryan Marshall
(Name of Official)

Public Works Director
(Title)

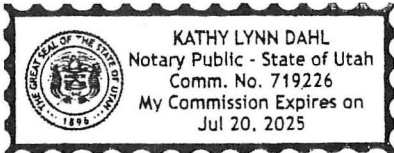
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Ryan Marshall
Signature:

6/24/22
Date:

State of Utah
County of Iron

Subscribed and sworn to before me on the 24th day of JUNE, in the year 20 22.



Kathy Lynn Dahl
Notary Public

My Commission Expires: 7-20-2025

PART II

GENERAL REPORT

PART II – GENERAL REPORT

1. GENERAL DESCRIPTION

The following is a general description of the Class IVb facility, including the types of wastes to be received, handled and the area served by the facility.

Cedar City operates the Class IVb facility for the use of the Cedar City municipal maintenance crews and other governmental agencies as approved. The facility will be open five (5) days per week and is expected to accept less than 500 tons per week.

The City presently owns thirty-four (34) acres, which have been zoned industrial for the use as a landfill west of the Cedar City Regional Airport at the approximate address of 1050 North Lund Highway. This location, known as the Bulloch Pit, is the Class IVb facility. The active facility is located within the confines of an old gravel pit with fifteen (15) to twenty (20) foot sloping vertical walls. The entire property is fenced and one (1) gated access road leads to the landfill from the northwest area of the property. This entrance is used for access to the Class IVb facility.

The types of wastes accepted at this facility include construction/demolition waste, yard waste and inert waste.

The responsible party for overseeing the operation of the facility is Cedar City Corporation. The facility is operated by the Public Works Department under the direction of the Street Superintendent who reports to the Public Works Director, who, in turn, reports to the City Manager and City Council.

2. RELATIONSHIP TO THE SOLID WASTE MANAGEMENT PLAN

Iron County has implemented a Solid Waste Management Plan, which began in 1992. Currently a large abandoned open pit mine approximately 12 miles northwest of the city is used for all of Iron County solid waste disposal.

The former gravel pit known as the Bulloch Pit was converted to a class IVb facility for governmental Class IVb waste to provide fill for the large depression as part of the closure of this pit. This local facility enables the governmental entities using the facility to reduce the distances traveled to haul Class IVb waste an additional 20 miles round-trip per load. Also, reduction of waste volumes at the Iron County Landfill will be achieved through use of this facility.

3. LEGAL DESCRIPTION

Commencing at the SE corner of the SW ¼, SW ¼, Section 4, T36S, R11W, SLB&M; thence West, 2640 feet, North, 542 feet; thence East, 655 feet; thence North, 322.5 feet; thence East, 917 feet; thence North, 39°58'16" East, 224 feet; thence North 1594.60 feet; thence East 924 feet; thence South 2640 feet to the point of beginning. Also, commencing 874.5 feet North, 1068.2 feet West from the SE corner of the W ½, SW ¼, of Section 4, T36S, R11W, SLB&M; thence West, 842 feet; thence North, 385.5 feet; thence West, 697 feet; thence North, 505.5 feet; thence East, 1683 feet; thence South, 720.6 feet; thence South 39°58'16" West, 224 feet to the point of beginning. Also see "Iron County Plats" for ownership proof. Front gate is located at Latitude 37°41'45" N; Longitude 113°06'42" West.

4. PLAN OF OPERATION

Copies of this plan of operation will be kept on file at the Cedar City Engineer's office located at 10 North Main, Cedar City, Utah, and at the Public Works Department located at 716 North Airport Road, Cedar City, Utah.

A. Schedule of Construction

The Class IVb facility is constructed in the abandoned gravel pit known as the Bulloch Pit. No additional work will be needed to improve the access road into the pit, storm water improvements and cell preparation.

No new infrastructure will need to be constructed. The facility will use the existing access road and the property is fenced and gated. The bottom of the pit will be properly graded to allow ease access and to prevent ponding of storm water prior to use. The class IVb landfill is now open and operating subject to a permit renewal being granted by the Utah Department of Environmental Quality (UDEQ).

B. Solid Waste Handling Procedures

The facility is accessible daily to those agencies that have permission to utilize it and closed when weather impedes access to the facility and makes operations difficult.

Equipment to operate the facility is made available through the City's Public Works Department. A front-end loader will be available each day the facility is open. A dozer is available as needed to place cover soil. A water truck is also available to control fugitive dust generated from roads, landfill operations and the covering of the waste.

The facility will accept construction/demolition waste, yard waste and inert waste for land filling. The following is a description of on-site solid waste handling procedures:

- 1- Cedar City maintains control of the Bulloch Pit Class IVb Landfill and permission has been given to the following agencies to dump at the site as needed:
 - a. Southern Utah University
 - b. Iron County School District
 - c. Iron County
 - d. State of Utah
- 2- The gate to the landfill is locked and agencies that have permission to dump have a remote-control device to open the gate.
- 3- The number of loads is counted before they are pushed off into the pit.
- 4- After disposal, waste will be spread, covered and compacted as needed.
- 5- The pit is not utilized every day, but the gate is monitored daily, Monday through Friday.
- 6- Directional signs are available and utilized as needed.

C. Contingency Plans in the Event of Fire

In the event of fire, the landfill will be evacuated if any dumping or covering operations are occurring at that time. The Fire Department and the Public Works Department will be notified immediately. The fire chief will be made aware of the type of waste that is on fire and any hazard that may be encountered.

The Public Works Director, the City Manager and the UDEQ must be notified immediately. A written report will be submitted to the UDEQ within fourteen (14) days of the event.

Emergency Telephone Numbers

Emergency Fire and Rescue	911
Cedar City Fire Department	435-586-2964
Cedar City Police Department	435-586-2956
Iron County Sheriff Department	435-867-7500
Utah Highway Patrol	435-865-1970
Cedar City Hospital	435-868-5000
Utah Department of Environmental Quality	801-536-0200
Southwest Utah Public Health Department	435-586-2437

D. Alternative Waste Handling and Disposal

During periods when the facility is not able to accept and dispose of waste (in case of equipment breakdown or other unforeseen events), Class IVb waste materials can be stockpiled on site. If required by regulation, waste can be transported to the Iron County Landfill.

E. Procedure for Excluding Prohibited Waste and PCB's (Polychlorinated Biphenyls)

The Cedar City Bulloch Pit Class IVb facility can only accept for landfilling construction/demolition waste, yard waste and inert waste.

Should non-hazardous prohibited wastes or other unacceptable wastes for landfilling at a Class IV facility (such as household garbage) be encountered in any load that has been dumped at the site, the unacceptable wastes will be collected and removed to the Iron County Landfill.

If hazardous wastes or wastes containing PCBs are discovered to have been inadvertently accepted, the following procedure will be implemented:

- 1- Access to the area will be restricted.
- 2- The situation will be carefully assessed. The fire department will be called if unstable wastes that cannot be handled safely or radioactive wastes are discovered or suspected. Proper notifications will be made if any hazardous wastes are discovered.
- 3- If waste can be safely moved, it will be transported to a secure zone.
- 4- The Public Works Director will be contacted for further disposition of the waste.
- 5- A record will be made of the discovery, handling and disposition of any hazardous wastes, including notification of the authorities. A copy of this record will be sent to the UDEQ within fourteen (14) days of the incident.

5. INSPECTIONS

A. Fencing and Gate

The Bulloch Pit Class IVb Landfill borders the Cedar City Regional Airport on the east and south sides. Those sections of fence are inspected daily by the Airport staff. The north fence borders the Ashdown gravel pit and the west fence borders Lund Highway. The entire site's fencing is inspected when the City is utilizing the pit for dumping, covering or compaction. The gate is monitored daily, Monday through Friday.

B. Access Roads

Access roads are created as needed inside the landfill. The main road to the pit is inspected daily Monday through Friday.

C. Litter and Weed Control

The site is sprayed for weed control and inspected on a quarterly basis. The site is inspected for litter when the pit is being utilized and the litter is collected and removed.

6. TRAINING AND SAFETY PLAN

A. Operator Training

Each operator/employee of the City that utilizes the landfill will be provided with adequate training to comply with the approved "Plan of Operation: and the "Permit." Refresher training will be provided as needed to ensure compliance within the approved plan and permit.

7. FINANCIAL ASSURANCE PLAN

A. Cost Estimates for Closure

Cost estimates for closure are based on the Cedar City Street Department performing closure operations. Total closure costs include inhouse engineering and construction totals of \$4,369.00 and \$39,957.00, respectively. Each of these totals includes a 10% contingency. Adding to the subtotals of these two (2) figures a 25% legal fee, the total closure costs are estimated at \$58,889.00.

Estimated Closure Costs

Construction Total	\$39,957.00
Engineering Total	<u>\$ 4,369.00</u>
Subtotal	\$44,326.00
25% Legal Fee	<u>\$14,563.00</u>
Total Closure Costs	<u>\$58,889.00</u>

B. Post-Closure Cost Estimates

The post-closure cost estimates cover the 30-year post-closure period and include annual reporting, site inspections, soil replacement, vegetation reseeding, site security, record-keeping and any correctional maintenance work required. The

post-closure cost total is estimated at \$17,490.00 which includes a 10% contingency.

Total estimated Financial Assurance costs are \$76,379.00 (closure plus post-closure costs). Estimated closure cost calculations are shown on the spreadsheets included in the Appendix.

C. Financial Assurance Mechanism

Cedar City Corporation as the owner/operator of the Bulloch Pit Class IVb Landfill has established an account with the Utah Public Treasurer's Investment Fund (PTIF.) The current amount in this account is \$78,082.78.

8. CLOSURE PLAN

A. Closure Schedule and Landfill Capacity

In accordance with UAC R315-302-3(4)(a) and (b) the City, as owner and operator, will notify the Director of the intent to implement the closure plan in whole or in part, sixty (60) days prior to the projected final receipt of waste at the facility. The City shall commence implementation of the closure plan, in part or whole, within thirty (30) days after receipt of the final volume of waste and will be completed within one hundred eighty (180) days from the starting time. Extensions of the closure period may be granted by the Director if justification for the extension is documented by the city.

Each fill area will be covered and closed as soon as it has been filled to the finish elevation. As the area is filled, the ground will be graded and contoured until a cover with a 2% slope is provided with adjacent or imported earth material. Cover material is available from the land immediately east of the pit, which is owned by Cedar City Corporation. The final soil cover will be seeded with a Bureau of Land Management (BLM) native range mix. The final cover of soil will be two (2) feet thick and will be contoured so that storm water will run off and away from the landfill. The facility shall be maintained and monitored until the site becomes stabilized (i.e., little or no settlement, gas production or leachate generation) and monitoring and maintenance activities can be safely discontinued.

Post-closure care will consist of semi-annual inspections in June and November of each year to ensure cover integrity, identification of drainage-related problems and inspection of fencing and facility security. The post-closure care period will be in place for thirty (30) years, or as long as the Director determines is required for the facility to become stabilized and to protect human health and the environment.

The post-closure plan may be amended if conditions and circumstances justify such amendment. If it is determined that amendment of the post-closure plan is

required, the Director may direct facility post-closure activities, in part or whole, to cease until the post-closure plan amendment has been reviewed and approved.

When post-closure activities are complete, as determined by the Director, the City as owner and operator, shall submit a certification to the Director, signed by the City Manager, stating why post-closure activities are no longer necessary (i.e., little or no settlement, gas production or leachate generation). If the Director finds that post-closure monitoring has established that the facility is stabilized (i.e., little or no settlement, gas production or leachate generation) the Director may authorize the City to discontinue any portion or all of the post-closure maintenance and monitoring activities.

Cedar City Public Works will be the point of contact during the post-closure period. The address and phone number are: 716 North Airport Road Cedar City, Utah 84721; 435-586-2912.

This section should be reviewed, and existing regulations incorporated when permits are updated.

B. Capacity of Site

The landfill has a current volume of 264,730 cubic yards. Using a compaction rate of 1,000 pounds per cubic yard, the tonnage capacity would be 132,365 tons. Volume calculations completed by Cedar City Engineering Department show an estimated remaining life of the facility at 10 years.

C. Record of Title, Land Use and Zoning Restrictions

The closed landfill will be re-zoned, 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 sixty (60) days after certification of closure. Land use restrictions will be assigned that conform to existing regulations for closed landfills at the date of closure. Currently, the facility lies within the Airport Protection Zone of Cedar City Regional Airport and following closure, the land will remain an industrial land-use and zoning designation to maintain the protection zone.

PART III
TECHNICAL DATA

PART III – TECHNICAL DATA

1. SITE VICINITY MAP

An original of the most recent full size U.S. Geological Survey Topographic Map of Cedar City, 7-1/2 minute series, is attached. The map shows the landfill site, existing structures within one-quarter (1/4) mile of the site, surface drainage channels and the direction of the prevailing winds.

2. LANDFILL SITE MAP

A topographic map of the existing landfill site is also attached which is drawn to a scale of three hundred feet to the inch (1" =300') containing two-foot (2) intervals. The map indicates landfill boundaries, the location of run-on and run-off control systems and borrow and fill areas.

3. CELL DESIGN AND RUN-OFF CONTROL

A drawing entitled "III Typical Sections" is attached which details typical landfill cross-sections and typical ditch and berm sections to be constructed around the landfill to prevent run-on. Run-off control will be by way of leaving the final compacted and seeded cover following closure of the area at an elevation no lower than the existing grade surrounding the landfill and sloping at a two per-cent (2%) grade into the unused area of the landfill.

4. BULLOCH PIT CLOSURE COSTS

Spreadsheets showing the current estimated closure and post-closure costs of the Bulloch Pit are attached.

5. OPERATIONAL INFORMATION

A. Facility Design, Operation, Cover Sources and Equipment

The landfill facility required minimal preparation in access road improvement and leveling of the pit base prior to acceptance of wastes. A 935 Caterpillar Loader is mainly used in daily operation of the facility however, a dozer and grader are available on an as needed basis from the Cedar City Street Division.

Cover source for each fill area will be from city-owned property directly east of the landfill site.

B. Fugitive Dust Control

The waste material deposited in the facility will be spread out, covered and compacted as needed to prevent fugitive dust emissions. A water truck is available as needed from the Cedar City Street Division which will be used to lightly moisten the ground and cover materials.

C. Run-on/Run-off Control

No run-off from the facility will be allowed. All leach from the landfill will be contoured in the pit and allowed to percolate into the gravel soil. Only inert waste will be allowed into the Class IV facility and no danger of ground contamination is anticipated.

Run-on to the Class IV Bulloch Pit facility will be eliminated through the use of berms and ditches, which will route the run-on around the landfill and ultimately to the Iron County drainage and flood system or allow the run-on to percolate into the gravel soil before entering an active area of the landfill.

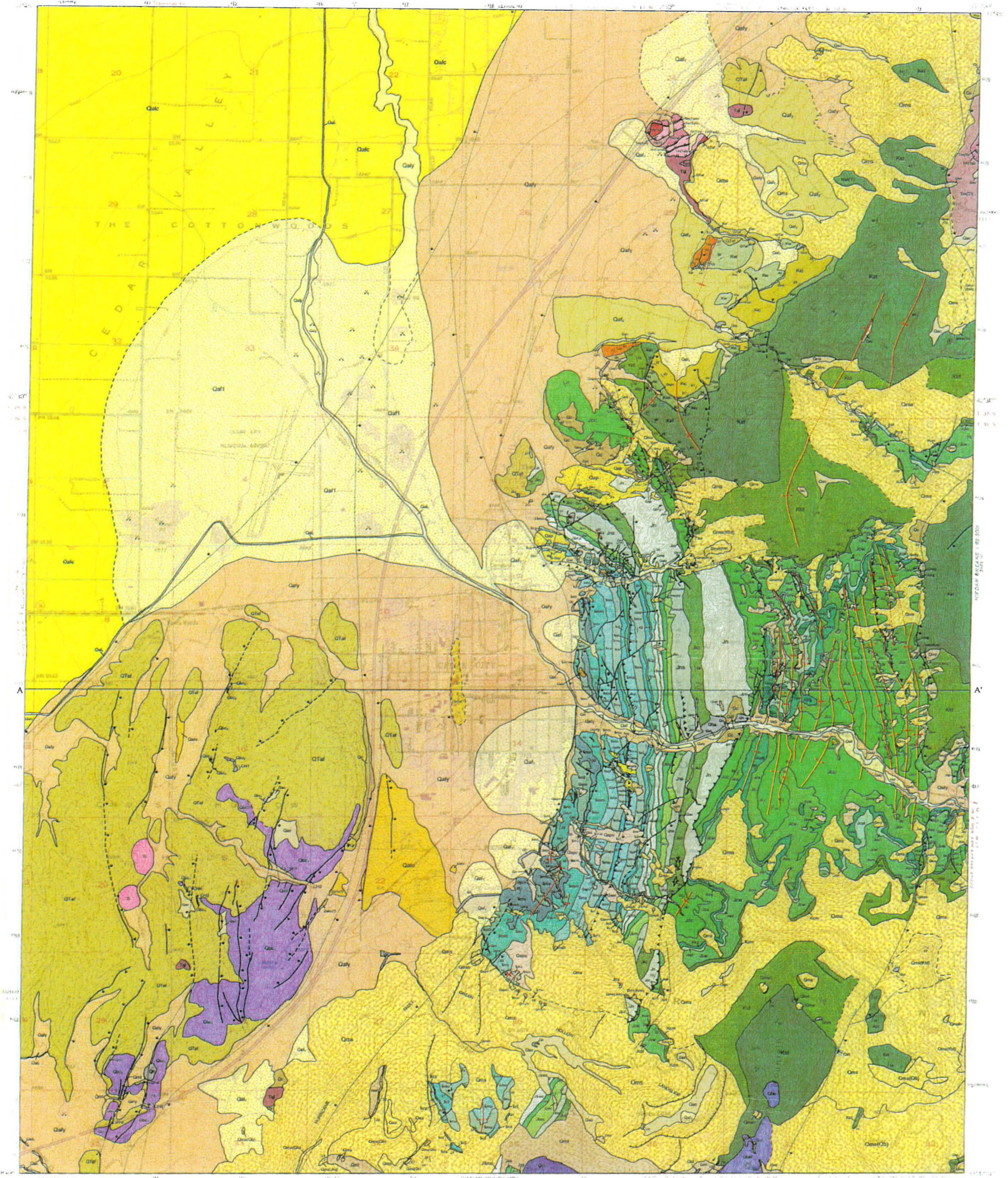
D. Facility Closure, Construction, Maintenance and Land Use

The closure of the landfill will be construction as shown on the Typical Design drawing referred to in Section 3 of Part III. When any area of the landfill is filled to the final elevation, construction for closure will begin.

Further details of closure design, construction and maintenance are discussed previously in Part II.

Land use after closure will not be permitted. The facility lies in the Airport Protection Zone of the Cedar City Regional Airport. This city-owned property will remain in an industrial land-use and zoning designation following closure to maintain the protection of the airport.

APPENDIX



This geologic map was funded by the Utah Geological Survey and the U.S. Geological Survey, National Cooperative Geologic Mapping Program through USGS STATEMAP award numbers G11AC20249 and G12AC20276. The views and conclusions contained in this document are those of the author and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

This open file report makes information available to the public during the review and production period necessary for a formal USGS publication. The map may be incomplete, and inconsistencies, errors, and omissions have not been resolved. While the document is in the review process, it may not conform to USGS standards; therefore it may be premature for an individual or group to take actions based on its contents.

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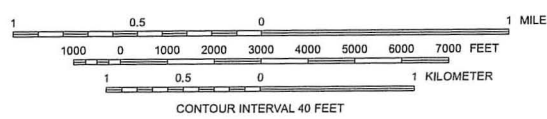
For use at 1:24,000 scale only.



INTERIM GEOLOGIC MAP OF THE CEDAR CITY 7.5-MINUTE QUADRANGLE, IRON COUNTY, UTAH

by
Tyler R. Knudsen
 2014

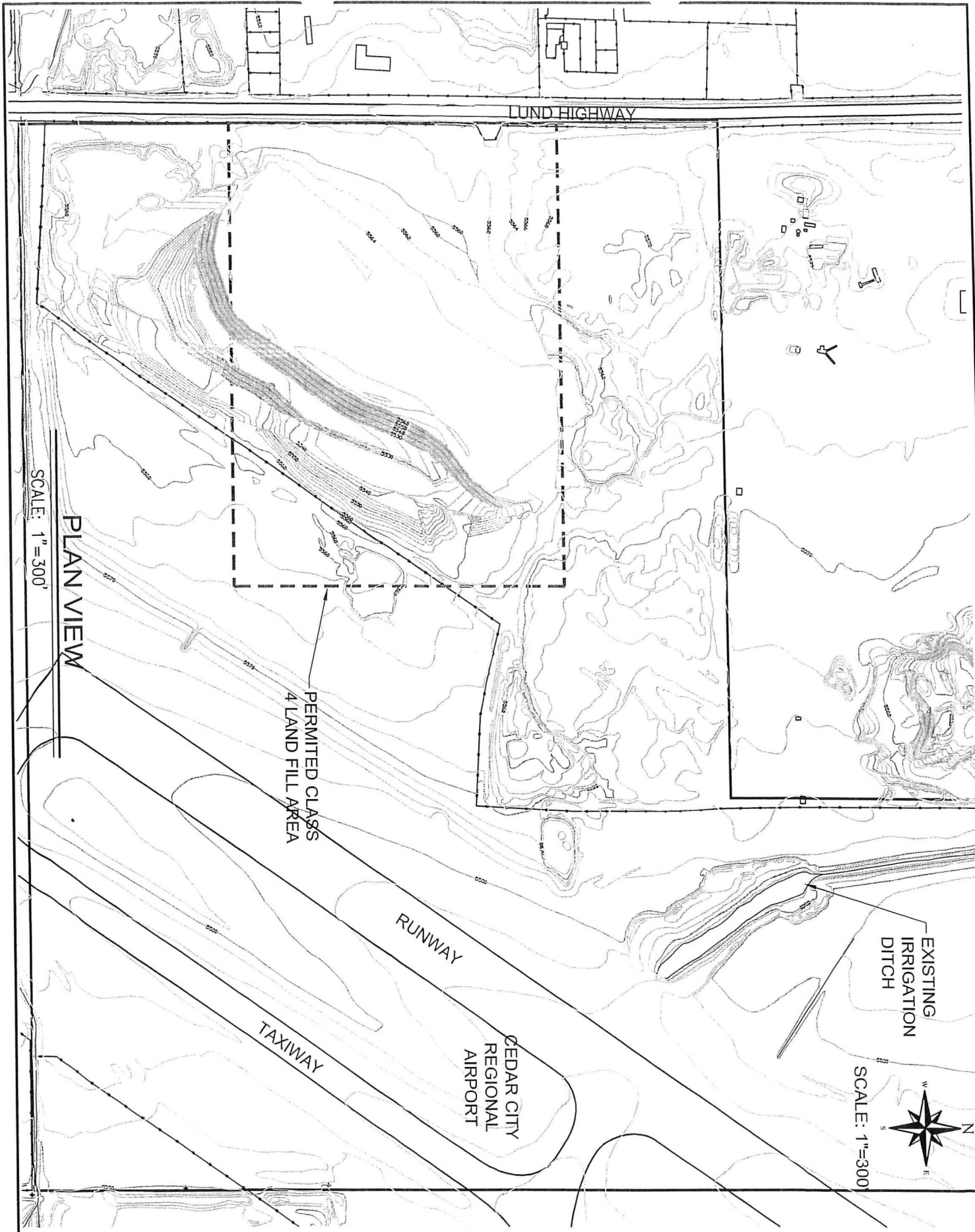
Base from USGS Cedar City 7.5' Quadrangle (1950)
 Projection: UTM Zone 12
 Datum: NAD 1927
 Spheroid: Clarke 1866
 Project Manager: William R. Lund
 GIS and Cartography: Tyler R. Knudsen



1	2	3
4	5	6
7	8	

ADJOINING 7.5' QUADRANGLE NAMES

1. The Three Peaks
2. Enoch
3. Summit
4. Cedar City NW
5. Flaming Arch
6. Kanarville
7. Cedar Mountain
8. Webster Flat



BULLOCH PIT APPLICATION 2022.DWG

SHEET NO.
1
OF SHEETS
FILE:

**BULLOCH PIT CLASS 4
LANDFILL SITE**

LOCATED IN SECTION 5, T36 S, R 11 W, S1M IRON COUNTY, UTAH

CEDAR CITY
P.O. BOX 249
10 NORTH MAIN STREET
CEDAR CITY, UTAH 84721
PH. (435) 686-2963

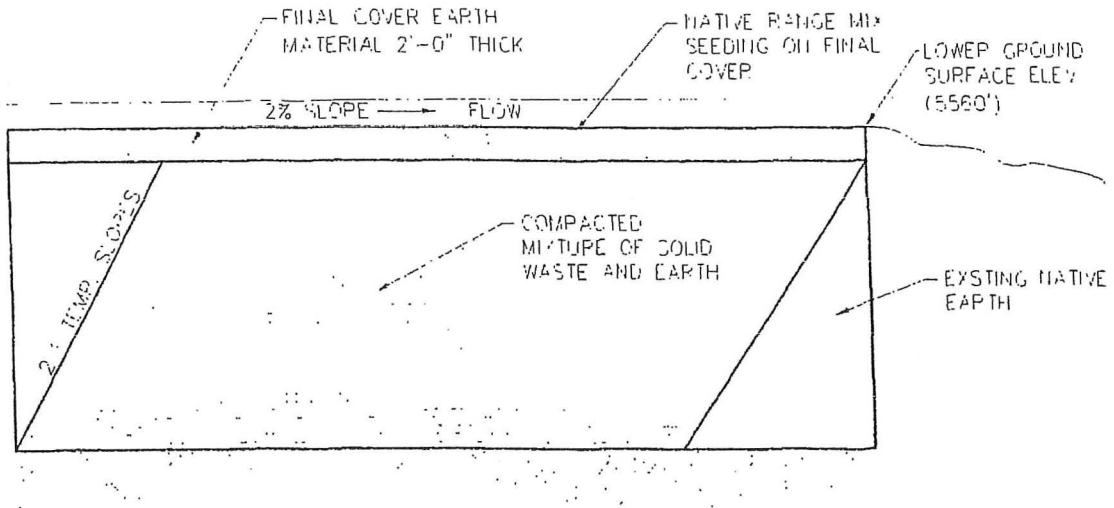
SCALE:
1"=300'
DRAWN:
T.B.M.

DATE:
6/2022
CHECKED:
C.T.

III TYPICAL SECTIONS

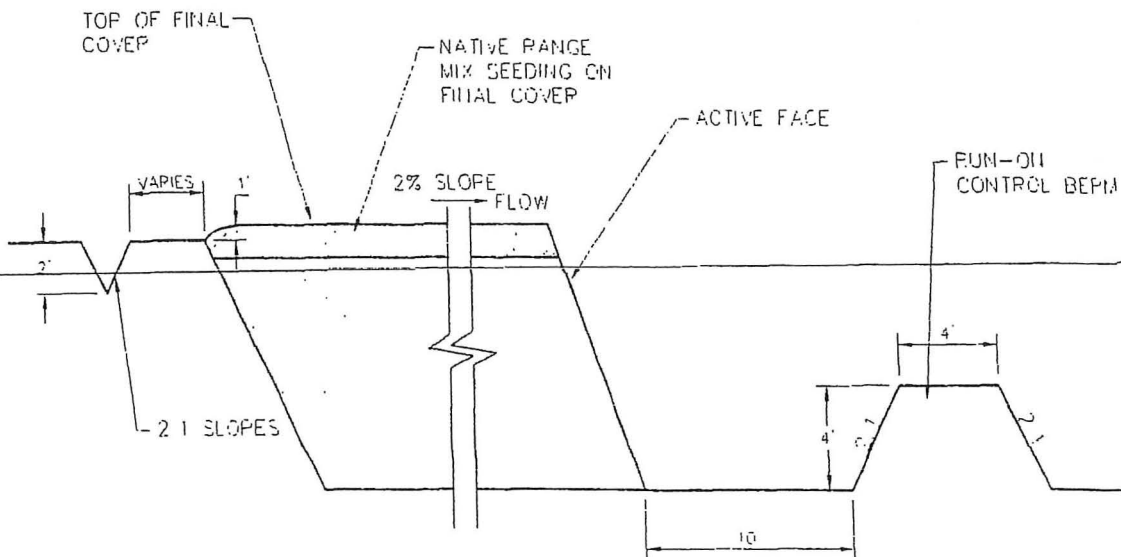
SECTION A-A TYPICAL LANDFILL SECTION

N.T.S.



SECTION B-B LANDFILL TYPICAL DITCH SECTION

N.T.S.



BULLOCH PIT ESTIMATED CLOSURE COSTS

Section 1.0 Engineering

Item No.	Description	Unit Measure	Cost/Unit	No. of Units	Total Cost
1.1	Topographic Survey	N/A	\$ -		\$ -
1.2	Boundary Survey for Closure	N/A	\$ -		\$ -
1.3	Site Evaluation	N/A	\$ -		\$ -
1.4	Development of Plans (Cover)	LS	\$ 2,000.00	1	\$ 2,000.00
1.5	Contract Administration (Bidding and Award)	N/A	\$ -		\$ -
1.6	Administrative Costs (Certification of Final Cover and Closure Notice)	LS	\$ 2,369.00	1	\$ 2,369.00
1.7	Project Management (Construction Observation and Testing)	N/A	\$ -		\$ -
1.8	Monitor Well Consultant Costs	N/A	\$ -		\$ -
1.9	Other Environmental Permit Costs	N/A	\$ -		\$ -
	Engineering Subtotal				\$ 4,369.00

Section 2.0 Construction

Item No.	Description	Unit Measure	Cost/Unit	No. of Units	Total Cost
2.1	Final Cover System				
2.1.1	Site Preparation/Site Regrading	LS	\$32,000.00	1	\$ 32,000.00
2.1.2	Gas Collection Layer/Pipes	N/A	\$ -		\$ -
2.1.3	Low Permeability Layer (Soil - if Applicable)				
a	Soil Purchase	N/A	\$ -		\$ -
b	Soil Processing (Load)	N/A	\$ -		\$ -
c	Soil Transportation	N/A	\$ -		\$ -
d	Soil Placement	N/A	\$ -		\$ -
e	Soil Amendment (Compact)	N/A	\$ -		\$ -
2.1.4	Low Permeability Layer (Synthetic - if Applicable)				
a	Geotextile	N/A	\$ -		\$ -
b	GCL	N/A	\$ -		\$ -
c	Geomembrane (HDPE, PVC, LLDPE, etc.)	N/A	\$ -		\$ -
2.1.5	Drainage Layer (Soil - if Applicable)				
a	Geotextile	N/A	\$ -		\$ -
b	Sand/Gravel	N/A	\$ -		\$ -
2.1.6	Drainage Layer (Synthetic - if Applicable)				
a	Geotextile	N/A	\$ -		\$ -
b	Geonet/Geocomposite	N/A	\$ -		\$ -
2.1.7	Erosion Protection Soil Layer				
a	Soil Purchase	N/A	\$ -		\$ -
b	Soil Processing (Load)	N/A	\$ -		\$ -
c	Soil Transportation	N/A	\$ -		\$ -
d	Soil Placement	N/A	\$ -		\$ -
e	Soil Amendment (Compact)	N/A	\$ -		\$ -
2.1.8	Topsoil Layer				
a	Soil Purchase	N/A	\$ -		\$ -
b	Soil Processing (Load)	N/A	\$ -		\$ -
c	Soil Transportation	N/A	\$ -		\$ -
d	Soil Placement	N/A	\$ -		\$ -
e	Soil Amendment	N/A	\$ -		\$ -
2.1.9	Revegetation				
a	Seeding	LS	\$ 5,826.00		\$ 5,826.00
b	Fertilizing	LS	\$ 2,131.00		\$ 2,131.00
c	Mulch	N/A	\$ -		\$ -
d	Tacifier	N/A	\$ -		\$ -
2.2	Stormwater Protection Structures				
a	Culverts	N/A	\$ -		\$ -
b	Pipes	N/A	\$ -		\$ -
c	Ditches/Berms	N/A	\$ -		\$ -
d	Detention Basins	N/A	\$ -		\$ -
2.3	Gas Collection System				
a	Design	N/A	\$ -		\$ -
b	Additional Gas Collection Wells and Connection	N/A	\$ -		\$ -
2.4	Leachate Collection System				
a	Design	N/A	\$ -		\$ -
b	Additional Equipment/Installation	N/A	\$ -		\$ -
2.5	Groundwater Monitoring System				
a	Monitor Well Installation	N/A	\$ -		\$ -
b	Monitor Well Abandonment	N/A	\$ -		\$ -
2.6	Site Security				
a	Lighting, Signs, Etc.	N/A	\$ -		\$ -
b	Fencing and Gates	N/A	\$ -		\$ -
2.7	Miscellaneous				
a	Performance Bonds	N/A	\$ -		\$ -
b	Contract/Legal Fees	LS	\$14,563.00	1	\$ 14,563.00
	Construction Subtotal				\$ 54,520.00

Total Closure Cost \$ 58,889.00

Section 3.0 Post-Closure Cost

Item No.	Description	Unit Measure	Cost/Unit	No. of Units	Total Cost
3.1	Post-Closure Cost	LS	\$17,490.00	1	\$ 17,490.00
	Post-Closure Cost Subtotal				\$ 17,490.00

Total Closure and Post-Closure Cost \$ 76,379.00

LANDFILL POST-CLOSURE COSTS (30 YEARS)

Section 1.0 - Engineering

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
1.1	Post-Closure Plan	NA			\$0
1.2	Annual Report (including results from gas, leachate, and ground water sampling - details of maintenance performed)	LS	\$200	30	\$6,000
a	Site Inspections	LS	\$100	30	\$3,000
b	Plan Update	LS			\$0
Engineering Subtotal					\$9,000

Section 2.0 - Gas Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS			\$0
2.2	Sample Analysis	NA			\$0
2.3	Report (Part of Annual Report)				
Gas Collection System - Sampling Subtotal					\$0

Section 3.0 - Leachate Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS			\$0
2.2	Sample Analysis	NA			\$0
2.3	Report (Part of Annual Report)				
Leachate Collection System - Sampling Subtotal					\$0

Section 4.0 - Ground Water Monitoring System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
3.1	Sample Collection	LS			\$0
3.2	Sample Analysis	LS			\$0
3.3	Report	LS			\$0
Ground Water Collection System - Sampling Subtotal					\$0

Section 5.0 - Facility Operations and Maintenance

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
4.1	Cover				
a	Soil Replacement	LS	\$500	6	\$3,000
b	Vegetation/Reseeding	LS	\$300	3	\$900
4.2	Storm Water Protection Structures				
a	Ditch and Culvert Maintenance	LS			\$0
b	Berm and Basin Maintenance	LS			\$0
4.3	Gas Collection System				
a	System Operation	NA			\$0
b	System Repair	LS			\$0
4.4	Leachate Collection System				
a	System Operation	NA			\$0
b	System Repair	NA			\$0
4.5	Ground Water Monitoring System				
a	System Operation	NA			\$0
b	System Repair	LS			\$0
4.6	Site Security				
a	Lighting, signs, etc...	LS	\$500	3	\$1,500
b	Fencing and Gates	LS	\$500	3	\$1,500
4.7	Miscellaneous				
a					
b					
Facility Operations and Maintenance Subtotal					\$6,900

Total	\$15,900
10% Contingency	\$1,590
Total Post-Closure Cost	\$17,490