Piute County Special Service District
P O Box 99
Junction, Utah 84740

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UTAH DIVISION OF
SOLID & HAZARDOUS WASTE
2008.03616

March 10, 2008

Mr. Dennis Downs
Executive Secretary,
Division of Solid and Hazardous Waste
P.O. Box 144880
Salt Lake City, Utah 84114-4880

Re: Tri-City Class IV Landfill.

Dear Mr. Downs:

Enclosed are the necessary permit renewal documents for the Tri-City Class IV Landfill.

The Piute County Special Service District certifies under penalty of law that the documents and attachments were prepared under the District's direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on the District's inquiry of those who manage the system or are directly responsible for gathering the data, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. The District is aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or concerns please contact Brian Bremner at (435) 676-1119. We thank you in advance for your cooperation.

Sincerely,

Verl Bagley

Verl Bagley, Chair
Piute County Special Service District

Utah Class IV and VI Landfill Permit Application Form

***Part I* General Information**	APPLICANT: PLEASE COMPLETE ALL SECTIONS.				
***I.* Landfill Type**	☐ Class IVa ☒ Class IVb ☐ Class VI	***II.* Application Type**	☐ New Application ☒ Renewal Application	☐ Facility Expansion ☐ Modification	
For Renewal Applications, Facility Expansion Applications and Modifications Enter Current Permit Number _____					
***III.* Facility Name and Location**					
Legal Name of Facility Tri-City Class IV Landfill					
Site Address (street or directions to site) near center 1/16th corner Sec `16, Tsp 30S, R 3W				County Piute	
City Kingston	State UT	Zip Code 84743	Telephone (435) 577-2840		
Township 30	Range 3	Section(s) 16	Quarter/Quarter Section SW	Quarter Section SE	
Main Gate Latitude degrees 38 minutes 11 seconds 52		Longitude degrees 11 minutes 12 seconds 8			
***IV.* Facility Owner(s) Information**					
Legal Name of Facility Owner Piute Co. Special Service District					
Address (mailing) P.O. Box 99, 550 North Main					
City Junction	State UT	Zip Code 84740	Telephone (435) 577-2840		
***V.* Facility Operator(s) Information**					
Legal Name of Facility Operator Piute Co. Special Service District					
Address (mailing) P.O. Box 99, 550 North Main					
City Junction	State UT	Zip Code 84740	Telephone (435) 577-2840		
***VI.* Property Owner(s) Information**					
Legal Name of Property Owner Piute Co. Special Service District					
Address (mailing) P.O. Box 99, 550 North Main					
City Junction	State UT	Zip Code 84740	Telephone (435) 577-2840		
***VII.* Contact Information**					
Owner Contact Valeen Brown		Title Co. Clerk			
Address (mailing) P.O. Box 99, 550 North Main					
City Junction	State UT	Zip Code 84740	Telephone (435) 577-2840		
Email Address		Alternative Telephone (cell or other)			
Operator Contact Valeen Brown		Title Co. Clerk			
Address (mailing) P.O. Box 99, 550 North Main					
City Junction	State UT	Zip Code 84740	Telephone (435) 577-2840		
Email Address		Alternative Telephone (cell or other)			
Property Owner Contact Valeen Brown		Title Co. Clerk			
Address (mailing) P.O. Box 99, 550 North Main					
City Junction	State	Zip Code 84740	Telephone (435) 577-2840		
Email Address		Alternative Telephone (cell or other)			

Utah Class IV and VI Landfill Permit Application Form

Part I General Information (Continued)

VIII. Waste Types (check all that apply)

☒ Landfill will accept all wastes allowed in Class IV or VI landfills **Or** landfill will accept only the following wastes

Waste Type	Combined Disposal Unit	Monofill Unit
☐ Construction & Demolition	☐	☐
☐ Tires	☐	☐
☐ Yard Waste	☐	☐
☐ Animals	☐	☐
☐ Contaminated Soil	☐	☐
☐ Other _____	☐	☐

Note: Disposal of dead animals must be approved by the Executive Secretary

IX. Facility Area

Facility Area	20	acres
Disposal Area	20	acres
Design Capacity		
Years	10	
Cubic Yards	528000	
Tons	237600	

X. Fee and Application Documents

Indicate Documents Attached To This Application ☐ Application Fee: Amount $

☒ Facility Map or Maps ☒ Facility Legal Description ☒ Plan of Operation ☒ Waste Description
☐ Ground Water Report ☒ Closure Design ☒ Cost Estimates ☒ Financial Assurance

Class VI Special Requirements
☐ 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	Title	Date
Signature of Authorized Owner Representative: Verl Bagley Name typed or printed	Chair, Piute SSD Address P.O. Box 99, Junction, Utah	March 10, 2008
Signature of Authorized Land Owner Representative (if applicable): Verl Bagley Name typed or printed	Chair, Piute SSD Address P.O. Box 99, Junction, Utah	March 10, 2008
Signature of Authorized Operator Representative (if applicable): Verl Bagley Name typed or printed	Chair, Piute SSD Address P.O. Box 99, Junction, Utah	March 10, 2008

Tri City

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 Solid and Hazardous Waste. 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.

An application for a permit to construct and operate a landfill is the documentation that the landfill will be located, designed, constructed, and operated to meet the requirements of Rules R315-305 of the *Utah Solid Waste Permitting and Management Rules* and the *Utah Solid and Hazardous Waste Act* (UCA 19-6-101 through 123). 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 Solid and Hazardous Waste at 801-538-6170. Most of these documents are available on the Division's web page at www.hazardouswaste.utah.gov. Guidance documents can be found at the solid waste section portion of the web page.

When the application is determined to be complete, the original complete application and one copy of the complete application are required along with an electronic copy.

Part II **Application Checklist**

***I.* Facility General Information**	
Description of Item	Location In Document
***Ia.* General Information - All Facilities**	
Completed Part I General information form above	Attached
General description of the facility (R315-310-3(1)(b))	p 2
Legal description of property (R315-310-3(1)(c))	p 2
Proof of ownership, lease agreement, or other mechanism (R315-310-3(1)(c))	on file
If the permit application is for a Class IV landfill, a demonstration that the landfill is not a commercial facility	N/A
Waste type and anticipated daily volume (R315-310-3(1)(d))	P 2, 3
Intended schedule of construction (R315-302-2(2)(a))	p 11
***Ib.* General Information - 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))	N/A
Name and address of all property owners within 1000 feet of the facility boundary (R315-310-3(2)(i))	N/A
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))	N/A

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))	N/A
Ic. Location Standards - New Or Laterally Expanding Class IVa Landfills (R315-305-4(1)(a))	
Land use compatibility	N/A
Maps showing the existing land use, topography, residences, parks, monuments, recreation areas or wilderness areas within 1000 feet of the site boundary	N/A
Certifications that no ecologically or scientifically significant areas or endangered species are present in site area	N/A
Maps showing the location of dwellings, residential areas, other structures, and historic structures.	N/A
List of airports within five miles of facility and distance to each	N/A
Geology	N/A
Geologic maps showing significant geologic features, faults, and unstable areas	N/A
Maps showing site soils	N/A
Surface water	N/A
Magnitude of 24 hour 25 year and 100 year storm events	N/A
Average annual rainfall	N/A
Maximum elevation of flood waters proximate to the facility	N/A
Maximum elevation of flood water from 100 year flood for waters proximate to the facility	N/A
Wetlands	N/A
Ground water	N/A
Id. Location Standards - New Or Laterally Expanding Class IVb and VI Landfills	
Floodplains as specified in R315-302-1(2)(c)(ii) (R315-305-4(1)(b)(i))	N/A
Wetlands as specified in R315-302-1(2)(d) (R315-305-4(1)(b)(ii))	N/A
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))	N/A
Geology as specified in R315-302-1(2)(b)(i) and (iv) (R315-305-4(1)(b)(iv))	N/A
Ie. Additional Location Standards - 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	N/A

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	N/A
Maps showing the location of dwellings, residential areas, other structures, and historic structures.	N/A
List of airports within five miles of facility and distance to each	N/A
If. Plan Of Operations - 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))	p 11
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))	p 13
Contingency plans in the event of a fire or explosion (R315-302-2(2)(d))	p 13
Plan to control fugitive dust generated from roads, construction, general operations, and covering the waste (R315-302-2(2)(g))	p 6
Plan for letter control and collection (R315-302-2(2)(h))	N/A
Procedures for excluding the receipt of prohibited hazardous or PCB containing waste (R315-302-2(2)(j))	p 17
Procedures for controlling disease vectors (R315-302-2(2)(k))	p 15
A plan for alternative waste handling (R315-302-2(2)(l))	p 15
A general training and safety plan for site operations (R315-302-2(2)(o))	p 16
Any recycling programs planned at the facility (R315-303-4(6))	p 17
Any other site specific information pertaining to the plan of operation required by the Executive Secretary (R315-302-2(2)(o))	N/A
Ig. Additional Plan Of Operation Requirements - 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 - 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))	Plan
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))	Exhibit 6

I. **Facility General Information**	
Description of Item	Location In Document
IIb. Geohydrological Assessment - Class IVa Landfills (R315-310-4(2)(b))	
Local and regional geology and hydrology including faults, unstable slopes and subsidence areas on site (R315-310-4(2)(b)(i))	N/A
Evaluation of bedrock and soil types and properties including permeability rates (R315-310-4(2)(b)(ii))	N/A
Depth to ground water (R315-310-4(2)(b)(iii))	N/A
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))	N/A
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))	N/A
Identification and description of all surface waters on-site and within one mile of the facility boundary (R315-310-4(2)(b)(vii))	N/A
For an existing facility, identification of impacts upon the ground water and surface water from leachate discharges (R315-310-4(2)(b)(viii))	N/A
Calculation of site water balance (R315-310-4(2)(b)(ix))	N/A
IIc. Engineering Report, Plans, Specifications, And Calculations - All Facilities	
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))	plan
Design and location of run-on and run-off control systems (R315-310-4(2)(c)(viii))	p 14
Anticipated facility life and the basis for calculating the facility's life (R315-310-4(2)(c)(ii))	p 8, 11
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))	plan
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))	N/A
IId. Closure Requirements - All Facilities	
CLOSURE PLAN (R315-310-3(1)(h))	p 8, 9
Closure schedule (R315-310-4(2)(d)(i))	p 8
Design of final cover (R315-310-4(2)(c)(iii))	p 8

I. **Facility General Information**	
Description of Item	Location In Document
Capacity of site in volume and tonnage (R315-310-4(2)(d)(ii))	p 8
Final inspection by regulatory agencies (R315-310-4(2)(d)(iii))	p 9
IIe. Post-Closure Requirements- All Facilities	
POST-CLOSURE CARE PLAN (R315-310-3(1)(h))	p 16
Changes to record of title, land use, and zoning restrictions (R315-310-4(2)(e)(ii))	p 6
Maintenance activities to maintain cover and run-on/run-off control systems (R315-310-4(2)(e)(iii))	p 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))	p 1
IIf. Financial Assurance - All Facilities (R315-310-3(1)(j))	
Identification of closure costs including cost calculations (R315-310-4(2)(d)(iv))	p 18
Identification of post-closure care costs including cost calculations (R315-310-4(2)(e)(iv))	p 18
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))	p 18

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PERMITTING DOCUMENTS

TRI CITY CLASS IV LANDFILL

JANUARY 2008

PREPARED BY: BEEHIVE ENTERPRISES

APPLICATION FOR THE

TRI CITY CLASS IV LANDFILL

2008

PREPARED BY: BEEHIVE ENTERPRISES, INC.
PANGUITCH, UTAH

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EXHIBITS

EXHIBIT #1	General Vicinity Map
EXHIBIT #2	Project Location Map
EXHIBIT #3	Service Area
EXHIBIT #4a-b	Daily Record Forms
EXHIBIT #5	Quarterly Inspection Log
EXHIBIT #6	Landfill Map

APPLICATION

INTRODUCTION

This report serves as the application renewal for the Tri City Class IV Landfill located approximately 1/2 mile East of US 89 southwest of Kingston, Utah. The purpose of the application is to comply with the Administrative Rules of the Utah Solid and Hazardous Waste Committee, Utah Department of Environmental Quality.

The Piute County Solid Waste Special Service District has acquired approximately 27 acres at the site and has set aside the property for operation of a Class IV facility / Source Reduction Site. The facility complies with Piute County's solid waste management plan and is capable of servicing Circleville's, Junction's and Kingston's current and future needs. The site is located in an area which accommodates residents of the Tri City area and southern Piute County and permits monitoring on a regular basis. In addition, the site is relatively isolated, has sloping topography, and has positive characteristics when considering precipitation, and available cover material. Exhibit 1 is a general vicinity map depicting the site.

RESPONSIBLE PARTIES

The applicant and responsible party for site operation is:

Piute County Special Service District
Piute County Courthouse
Junction, Utah 84740
Attn: Valeen Brown
Phone: (801) 577-2840
Fax: (801) 577-2628

The property owner is :

Piute County Special Service District
Piute County Courthouse
Junction, Utah 84740
Attn: Valeen Brown
Phone: (801) 577-2840
Fax: (801) 577-2628

Technical questions and comments regarding the application can be directed to:

Brian B. Bremner
P.O. Box 59
Panguitch, Utah 84759

It should be noted the Piute County Solid Waste Special Service District has developed cooperative solid waste disposal agreements with other governmental entities within its boundaries. Future agreements, special service district operation, and alternate ownership/operation scenarios may require modification of this section of the permit. In addition, the District may contract site operations with private entities or haulers. Piute County Solid Waste Special Service District will notify the Executive Secretary of any changes in responsible party status at least 30 days prior to their effective date.

GENERAL DESCRIPTION

The Tri City Class IV Landfill is a natural attenuation facility designed to fulfill the current and future inert solid waste disposal needs of southern Piute County, Utah. The facility encompasses a total of 27 acres and provides service to Circleville, Junction, Kingston and unincorporated areas under the jurisdiction of the Piute County Commission. Annual average waste volumes are estimated at less than 5 tons per day, and precipitation is less than 10 inches per year. Facility plans are included in other sections of this document.

LEGAL DESCRIPTION

The Tri City Class IV Landfill is legally described as that portion of the southwest 1/4 of the southeast 1/4 of Section 16, Township 30 South, Range 3 West lying east of the existing county road and containing approximately 27 acres. The facility is located on property owned by the District. A project location map is included as Exhibit 2.

The facility's main gate is located on an existing county road 115° 12' 08" longitude and 38° 11' 52" latitude near the center 1/16th corner of the southeast 1/4, Section 16, Township 30 South, Range 3 West. Lands surrounding the facility on the north, south and west are private lands. Property east of the site is owned by the State of Utah and may be purchased in the future to accommodate growth.

No formal zoning ordinances exist in the vicinity of the Class IV landfill. An expanded zoning process is being considered by Piute County; future policies and ordinances will accommodate the Tri City Class IV Landfill as they are adopted.

WASTE TYPES/AREA TO BE SERVED

Waste accepted by the Tri City Class IV Landfill is comprised of inert waste,

construction/demolition waste, yard waste, dead animals, tires or tire derived material, and other waste approved by the Executive Secretary. The facility will also temporarily store recyclable materials prior to transportation to regional facilities. Special waste shall only be accepted and handled in accordance with Administrative Rule R315 and subject to the conditions of this permit.

Dead animals are the only special waste authorized for permanent disposal at the Tri City Class IV Landfill. Dead animals received at the facility shall be deposited onto the working face at or near the bottom of the cell with other solid waste, or in a separate disposal trench and will be covered daily with a minimum of six 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. Other special wastes identified in the regulations will not be accepted at the facility unless specifically authorized by the Executive Secretary.

The service area consists of all lands within the legal boundaries of Piute 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 the residents of southern Piute County. Exhibit 3 illustrates the service area for the Tri City Class IV Landfill.

PLAN OF OPERATION

The plan of operation required by Subsection R315 can be found in other portions of this application.

REQUIRED FORMS

The daily record form used to record weights of volumes of waste received required by Subsection R315 is included as Exhibit 4a. The form for recording inspections for hazardous and PCB wastes is included as Exhibit 4b.

INSPECTIONS

The owner or operator will inspect the facility to prevent malfunctions, deterioration, operation errors, and discharges which may result in the release of wastes to the environment or a threat to human health. The owner or operator will conduct these inspections at least once each quarter and will complete the inspection log included as Exhibit 5. The inspection log will be kept

for a minimum of 3 years from the date of inspection.

The Executive Secretary or any duly authorized officer, employee or representative of the Board may, at any reasonable time the facility is open and upon presentation of acceptable credentials, enter the facility for inspection purposes. Copies of all sampling, monitoring, and testing records, including photographic, video, and electronic data, and all data, communications, and results of the inspection shall be furnished to the owner and to the operator within a reasonable time. An inspection record containing a list of any deficiencies and recommended actions will be furnished to the owner and to the operator within a reasonable time. The inspector may also discuss problems and make preliminary recommendations prior to leaving the facility.

WATER QUALITY REVIEW

State regulations allow the Division of Water Quality to permit landfills by rule. Therefore, a groundwater discharge permit is not required. In addition, the Tri City Class IV Landfill is not subject to location and groundwater standards imposed for other classes of landfills. No leachate collection devices are planned for the Tri City Class IV landfill.

FINANCIAL ASSURANCE

A detailed financial assurance plan as required by R315 is included in other sections of this document. The Tri City Class IV Landfill has established a dedicated escrow account with satisfactory controls approved by the Executive Secretary for financial assurance sufficient to assure adequate closure. Withdrawal and use of the funds shall be for closure purposes with the approval of the Executive Secretary. Funding that exceeds the approved amount for closure - post closure operations may be used for other landfill purposes with the concurrence of the Executive Secretary. Minimum payments of $4,000.00 per year will be made until the account achieves a $20,600.00 balance. Piute County reserves the right to alter the financial assurance mechanism as bonds, insurance, guarantees and other vehicles become available.

PRELIMINARY ENGINEERING REPORT

REQUIRED MAPPING

A map complying with the requirements of R315 depicting the boundaries of the landfill unit, borrow areas and fill areas was included as Exhibit 6 of the original permit application. The map has been updated and is included herein. Groundwater monitoring wells and landfill gas monitoring points are not required for Class IV landfills and do not appear on the map.

A USGS topographic map complying with the requirements of R315-310-4(2)(a)(ii) is also included with original permit application.

ZONING STATUS

No formal zoning ordinances exist in the vicinity of the Class IV landfill. As an expanded zoning process is being considered, future policies and ordinances will accommodate the Tri City Class IV Landfill.

SOLID WASTE MANAGEMENT COMPLIANCE

The Piute County Solid Waste Management Plan required by Senate Bill 255 identifies the need for development of several Class IV landfills capable of long term service in the planning area. The plan further recommends that development of the facilities be made a top priority in the coming years. The Tri City Class IV Landfill is a fulfillment of that recommendation and is in complete compliance with the County's Solid Waste Management Plan.

SERVICE AREA

The service area for the Tri City Class IV Landfill may consist of all lands within the legal boundaries of Piute 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 the residents of southern Piute County. Exhibit 3 illustrates the service area for the Tri City Class IV Landfill.

RECORDED PLATS

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. 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 Tri City 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 Tri City Class IV Landfill will employ measures to prevent the disposal of unauthorized waste by insuring that at least one person is onsite during hours of operation. Unauthorized access and disposal during closed periods will be prevented by controlling entry. Lockable gates, fences, natural barriers, berms, and other methods will be employed to insure access to the facility is controlled.

EMISSION PREVENTION

Appropriate measures to prevent emissions of fugitive dust will be employed when weather conditions or climate indicate that transport of dust off-site is liable to create a nuisance. Preventative measures may include watering access roads and covering wastes with soil.

FIRE PREVENTION

The hazard of unauthorized fires will be reduced by covering wood, timbers, and other combustible material with soil as needed. A specific portion of the landfill will be set aside for yard wastes. These wastes may be burned during appropriate times of the year (March 30 - May 30 and Sept. 15 - Oct. 30) or chipped for future use. Burning will under the direction of the County Fire Marshall and in accordance with State Law.

CLOSURE

Closure operations will be performed on an ongoing basis. When a portion of the landfill attains final elevation, and sufficient working area exists to place final cover, closure operations will be initiated. Closure will consist of leveling the wastes to the extent practicable and filling any voids posing a physical hazard. Contouring as necessary to produce an aesthetic appearance may also be conducted. Wastes will then be covered with a minimum of two feet of soil, including six inches of native material. An alternate cover system may be implemented, if it can be demonstrated it meets applicable standards. Construction of the final cover will be performed with onsite personnel or may be contracted with private enterprise.

Closed portions of the landfill may be seeded with grass, shallow rooted vegetation, other native vegetation, or covered in any other manner approved by the Executive Secretary. Closed areas will be randomly examined as part of the quarterly inspection. Any deficiencies will be repaired as soon as practical. For those failures which jeopardize the environmental integrity of the facility, corrective measures will be initiated immediately.

No alternate land use for closed sections has been developed to date. Closed cells will remain under the jurisdiction of the landfill manager and the property owner. If alternate land use plans are developed, they will be addressed during the permit renewal process, or a separate permit modification may be submitted.. The final cover design illustration is as follows:

6" Native Soil / Vegetative Cover

18" Final Cover

Waste

CLOSURE PLAN

CLOSURE SEASON AND YEAR

Closure operations at the Tri City 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. No area larger than 0.5 acres that has achieved final elevation will remain open longer than 6 months.

FINAL COVER, SEEDING, CONTOURING

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 containing waste and reaching final elevation will be closed within 6 months. Closure operations will include levelling and contouring with intermediate cover to reduce infiltration and ponding. 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 depth to cover 2 feet including 6 inches of native material 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. Recently closed sections of the landfill will be evaluated as part of the quarterly inspection process and will be placed on postclosure status.

Areas used for temporary storage will be cleared of any remaining debris and contoured to slopes flatter than 2:1. Seeding will be conducted only when consistent with soil types, moisture, and vegetative viability.

SITE CAPACITY

Site capacity for the entire Tri City Class IV Landfill cannot be accurately estimated. Assuming an initial 20 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, waste volumes can be estimated at 528,000 cubic yards or 237,600 tons.

ACTIVE FILL VERSUS CLOSED AREA

The active area of the Tri City Class IV Landfill is not anticipated to exceed 0.5 acres. Current operations are confined to less than 0.2 acres. The closed portion of the landfill will initially be 0 acres and may increase as much as 0.5 acre per year during the life of the facility.

For the ten-year life of this permit the closed to active ratio would range from 0 to 25.

CLOSURE TIMING AND NOTIFICATION

Closure activities at the Tri City Class IV Landfill will be performed on an ongoing basis. The Executive Secretary will be notified of closure progress by reviewing annual reports, and by contacting Division of Solid and Hazardous Waste inspectors who have visited the site. Considering the ongoing nature of closure operations and the justification for performing closure operations as a cell reaches final elevation, alternate notification procedures may not be feasible.

INSPECTIONS

Inspections by regulatory agencies shall be as described in other sections of this permit. The permittee shall allow the Executive Secretary of the Utah Solid and Hazardous Waste Control Board or an authorized representative, including representatives from the local District Health Department, upon presentation of appropriate credentials, to enter during operating hours and/or inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under this permit.

A record of the inspection may be made by photographic, videotape, electronic or other reasonable means, and a copy of any such record shall be provided to the owner and the operator.

CLOSURE COSTS AND MECHANISMS

Closure costs were estimated using regional cost data and projections for a third party to perform the work and considering the largest area of the disposal facility requiring final cover during the operating period. Cover operations considered only those areas used for permanent disposal and containing waste. Closure operations will consist of an 18" infiltration layer and a 6" vegetative layer on an area not exceeding 15,000 sq. ft., seeding and administration. Closure costs are estimated at $6,100.00; the funding mechanism is a dedicated escrow account.

RUNON AND RUNOFF SYSTEMS

No technical devices are proposed to control runon and runoff systems at the Tri City Class IV Landfill. Best management practices, (berms, dikes, ditches, contouring, etc.) will be implemented to assure the integrity of the runon/runoff system. Runon and runoff from events smaller than the 25-year storm will be controlled.

Runon control consists of implementing best management practices and using natural characteristics of the site to intercept any surface waters and channelize potential runon away

from areas containing waste. Landfill topography slopes to the west, and natural drainage channels are redirected as needed to prevent minimal surface flows from impacting active areas. Excess excavated material stockpiled at the edge of active areas also redirects flows, and the main access road, which bisects the facility, is used to convey stormwater collected inside the facility.

Runoff will be controlled by containing accumulated precipitation within the active area. Trench style construction and stockpiling excavated material at the edge of the active area will prevent precipitation which contacts waste from exiting the site. During the active life of a cell, additional minor control berms and ditches may be constructed on an as needed basis to assure integrity of the system. 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, natural topography, construction techniques, and the inert nature of acceptable waste, runon / runoff control features for the facility are more than adequate.

PLAN OF OPERATION

INTRODUCTION

This document constitutes the plan of operation for the Tri City Class IV Landfill and is intended to comply with guideline R315 of the Utah Division of Solid and Hazardous Waste Administrative Rules. Technical questions and comments may be directed to:

Brian B. Bremner, P.E.
P.O. Box 59
Panguitch, Utah 84759
(435) 676-1119

INTENDED SCHEDULE OF CONSTRUCTION

The Tri City Class IV Landfill is capable of meeting solid waste disposal needs for southern Piute County for more than 50 years. The facility was constructed in 1995 and will continue operating throughout the life of the permit.

The initial cell was planned for a capacity of approximately 2 years and will be expanded in an ongoing manner as portions of the cell attain final elevation.

HANDLING PROCEDURES

One of the purposes of the Tri City Class IV landfill is to expand integrated solid waste management techniques in Piute County. The facility will be separated into various disposal areas including:

1. Yard Wastes.
2. Construction / Demolition Wastes.
3. Dead Animals.
4. Recyclable Metals.
5. Other Categories as Need 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 facilities. This type of waste does not include garbage, paper, plastics, sludge, septage, or manure.

Yard wastes brought to the landfill will be placed in the designated area, separated by type (chippable tree limbs & bushes, grass clippings, and trees, trunks & stumps). The material will be held until it can be burned, chipped or placed at the working face of the landfill. All burning will

be done in accordance with Utah State Law and under the direction of the County Fire Marshal and only during the periods of March 30 through May 30 and September 15 through October 30. No trash, rubbish, tires, or oil may be 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, pits, distance, 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.

Construction / demolition material, including fencing designated for disposal will be brought to the working face where it will be dumped and spread. Large timbers and recyclable lumber will be separated and held for reuse. This waste will be covered as needed to avoid a fire hazard. Cover material may include fire resistant material, 6 inches of earthen material, or an alternate cover approved by the Executive Secretary. Any temporary alternate covers will be removed at least monthly, and waste will be covered in such a manner to prevent fires. No fires will be permitted within this area of the landfill.

Dead animals will be handled in accordance with administrative rules. Dead animals received at the facility will be deposited onto the working face at or near the bottom of the cell designated for dead animals, or in a separate disposal trench. All dead animals, including carcass limbs, will be completely covered daily with a minimum of six 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 will be required to contact the owner and 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 inches of earthen material as soon as practical but no later than the next day the facility is open.

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

Recent changes in the solid waste regulations permit acceptance of tires and/or tire derived material at Class IV facilities. Tires and tire derived material will be received and treated as construction / demolition waste until such time that a separate tire monofil or hauling to a recycler becomes feasible. Some funding is available for hauling waste tires to a recycler and storage in a separate facility through Utah's waste tire recycling act.

Equipment to be used at the facility will consist primarily of a bulldozer owned by Piute County. When additional equipment is needed it will be borrowed/leased from Piute County.

This may include loaders, trucks, trackhoes, backhoes, and graders. Other processing equipment will be acquired as funds and needs dictate.

INSPECTIONS AND MONITORING

At least one employee will be on site when the facility is open to the public to perform inspection and monitoring functions. Inspection and monitoring at the Tri City Class IV Landfill will be conducted in two components: 1) routine and 2) compliance. Routine inspections will be 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 will be made during deposition, spreading, and covering operations to insure protection of the environment and absence of nuisances. Waste screening inspections will be made by trained personnel; operational inspection will be made by supervisory landfill personnel.

Compliance inspections will be 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 will include 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 on 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 Johns Valley Landfill, the Wayne County Landfill, the Sevier County Landfill, or other permitted sites. 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 Tri City 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 & Record Necessary Information

CORRECTIVE ACTION FOR CONTAMINATED GROUND WATER

This section describes corrective actions to be taken by owners and operators of the Tri City 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 Tri City Class IV Landfill. However, if the concentration of parameters in down gradient wells exceed the acceptable concentration limits as substantiated by confirmatory analyses, owners and operators of the Tri City Class IV Landfill will implement a corrective action program as outlined in R315.

CONTINGENCY PLAN FOR OTHER RELEASES

This section describes corrective actions to be taken by the Tri City 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 Tri City Class IV Landfill will implement a corrective action program approved by the Executive Secretary.

EQUIPMENT MAINTENANCE

Active collection systems for leachate and / or explosive gases are not proposed for the Tri City 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.

RUNON/RUNOFF CONTROL

Piute County will control the runon and runoff 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 as described above. Each cell will be contoured or 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 contouring / berms, natural topography, drainage channels, and the main access road will be used to direct surface drainage to desired areas. Any intermittent washes existing onsite will also be redirected away from any area which has received waste.

EXCLUSION OF HAZARDOUS WASTE

As a rural Class IV landfill, the Tri City facility is in a favorable position regarding exclusion of hazardous waste. Generally, all waste will be delivered by local, known generators. The waste will be 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 will be directed to dispose of their material near the working face in a manner that permits inspection prior to unloading. The waste generator will be 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 (see Exhibit 4b). 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 Tri City Class IV Landfill will be 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 6 inch layer of earthen material completely covering dead animals and carcass limbs..

Rodents and other vermin will not be 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 DISPOSAL

Alternative waste handling procedures for periods when the landfill is not in operation 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 Johns 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 leased 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.

CLOSURE/POST CLOSURE

Closure of active portions of the Tri City Class IV Landfill contemplates controlling, preventing, and eliminating threats to human health and the environment from post closure escape of solid waste constituents, leachate, landfill gases, contaminated runoff, or waste composition products to the ground, groundwater, surface water, and the atmosphere. A final elevation has not been determined, but it is anticipated that cells will not exceed 30 ft. above natural ground level. Adequate capacity exists to extend the landfill well beyond the life of the permit. When an area containing waste and exceeding 2500 square yards reaches final elevation it will be covered within 60 days with 12 inches of intermediate cover and graded to promote drainage. The surface shall be free from ponding and shall minimize infiltration. Not more than 6 months after completion of the intermediate cover, the area will be covered with an additional 12 inches (24" total depth) of earthen material including 6 inches of native material.

Post closure care of inactive sections of the landfill will consist of removing surface debris, contouring or 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. Groundwater monitoring, leachate collection, and gas collection are not proposed for the Tri City Class IV Landfill. Therefore, closure and post closure activities associated with these functions will not be performed.

FINANCIAL ASSURANCE

A financial assurance plan has been developed for the Tri City Class IV Landfill and is contained in other sections of this document. The plan consists of insuring that sufficient funding is available within 5 years for the closure of the largest area of the landfill that is active at any time. Cost estimates were developed considering a third party performing the work.

TRAINING AND SAFETY PLAN

No standardized training program exists for operators of the Tri City Class IV Landfill. Although Landfill Operator and Waste Screening training courses provided by the Solid Waste Association of North America (SWANA) are not fully applicable to the operations at the landfill, the Piute County Solid Waste Special Service District may elect to send selected employees to receive such training.

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 that are more applicable to the Tri City Class IV Landfill. Training will primarily consist of discussing operational modifications during regulatory inspections and updating practices as regulations progress.

RECYCLING

Recycling means extracting valuable materials from the waste stream and reuseing them as viable products. Technical recycling expertise is not available and reliable recycling markets do not exist for solid waste disposed at the Tri City Class IV Landfill. In an effort to promote source reduction and future recycling, large appliances, car bodies, and some ferrous metals will be stored onsite until they can be transported to an appropriate recycling/salvage facility. Compostable material may be diverted to areas designated for mulching or burning. However, no formal recycling or remanufacturing program is anticipated for this facility.

ACCESS CONTROL & ONSITE PERSONNEL

Fencing will be placed around accessible portions of the active cell and any intermediate closed areas with a lockable gate provided at the main entrance to the facility. The fence will consist of at least four strands of barbed wire. The absence of any roads and existing topography surrounding the site reduce the possibility of unauthorized vehicular traffic.

Landfill personnel will be onsite when the facility is open to the public. The schedule for operation of the Tri City Class IV Landfill varies throughout the year and will be posted at the main gate. Operation times can also be obtained by contacting the Piute County Special Service District.

Authorized collection vehicles operated by personnel under contract with the landfill as operators and containing construction waste, yard waste, dead animals, or waste tire material may be entering the landfill when the facility is not open to the public. Waste will not be accepted from the public during these periods. The District intends to revise the scheduled operation of the landfill as the need arises and solid waste volumes dictate.

FINANCIAL ASSURANCE PLAN

INTRODUCTION

This section of the permit describes compliance with Subsection R315, Financial Assurance of the Administrative Rules for Solid Waste Permitting and Management. Cost estimates consider the most expensive option during the period and are based on a third party performing closure and post closure care.

MECHANISMS

The initial mechanism proposed for use at the Tri City Class IV Landfill is a dedicated escrow account with the State Treasurer. Funds in excess of the estimate listed below may be used for capital improvements, to offset rate increases, operational expenses and other items deemed necessary by landfill managers only after requirements for closure and post closure are complete. The Tri City Class IV landfill may alter the mechanism to include insurance, surety bonds, trust funds, or other options as they become feasible with Executive Secretary approval.

SCHEDULE OF PAYMENTS

The Piute County Special Service District has made payments to a dedicated escrow account with the State Treasurer's office to insure the availability of sufficient funds for closure and post closure care. Additional payments will be added to the fund until the balance exceeds the minimum closure / post closure requirements.

COST ESTIMATE

Cost estimates were developed by a professional engineer considering the largest area of the disposal facility requiring final cover during the operating period and using projections for a third party to perform the work. The cost estimate was developed using Oklahoma Department of Environmental Quality and Utah Division of Solid & Hazardous Waste guidelines and considered average annual bid prices received by the Utah Department of Transportation and local factors including trucking costs, availability of on-site material, and regional cost data. A cost estimate detailing major closure and post-closure components is included below. It should be noted the Tri City Class IV Landfill is a minimum service facility. Most items usually identified for Class I and Class II closure / post closure care are not applicable to the Tri City Class IV Landfill. Only applicable items are included below.

Closure Costs

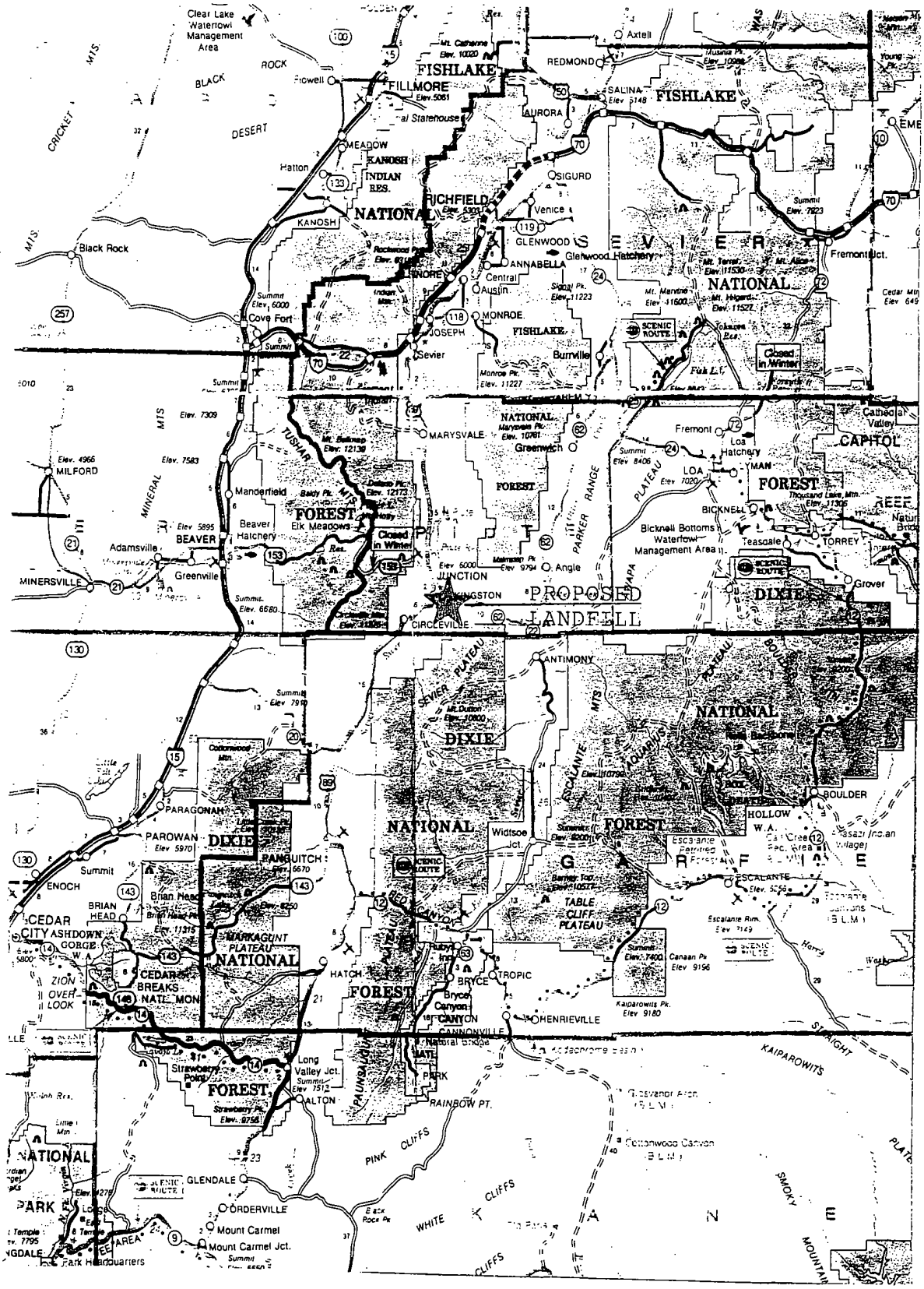
Engineering -	$ 2,600.00
Cover material:	
Infiltration Layer - 900 cu. yds. @ $2.50	$ 2,250.00
Vegetative Layer - 400 cu. yds. @ $1.75	$ 700.00
Mulch, Seed and fertilizer	200.00
Drainage materials:	
Drainage layer material	0
Drainage pipe	0
Explosive gas control:	
Vents (passive)	0
Contingency	350.00
Closure Costs	$ 6,100.00

Post-Closure Costs

Monitoring and system O&M	$ 0
Explosive gas monitoring wells	0
Groundwater monitoring wells	0
Leachate collection and storage system	0
Surface water management system	0
Vegetative cover	100.00
Soil cover	450.00
Leachate treatment	0
Administrative	600.00
Inspection / Reports @ $400/year x 30 years	12,000.00
Contingency	1,350.00
Post-Closure Costs	$ 14,500.00
Total Closure / Post Closure Costs	$ 20,600.00

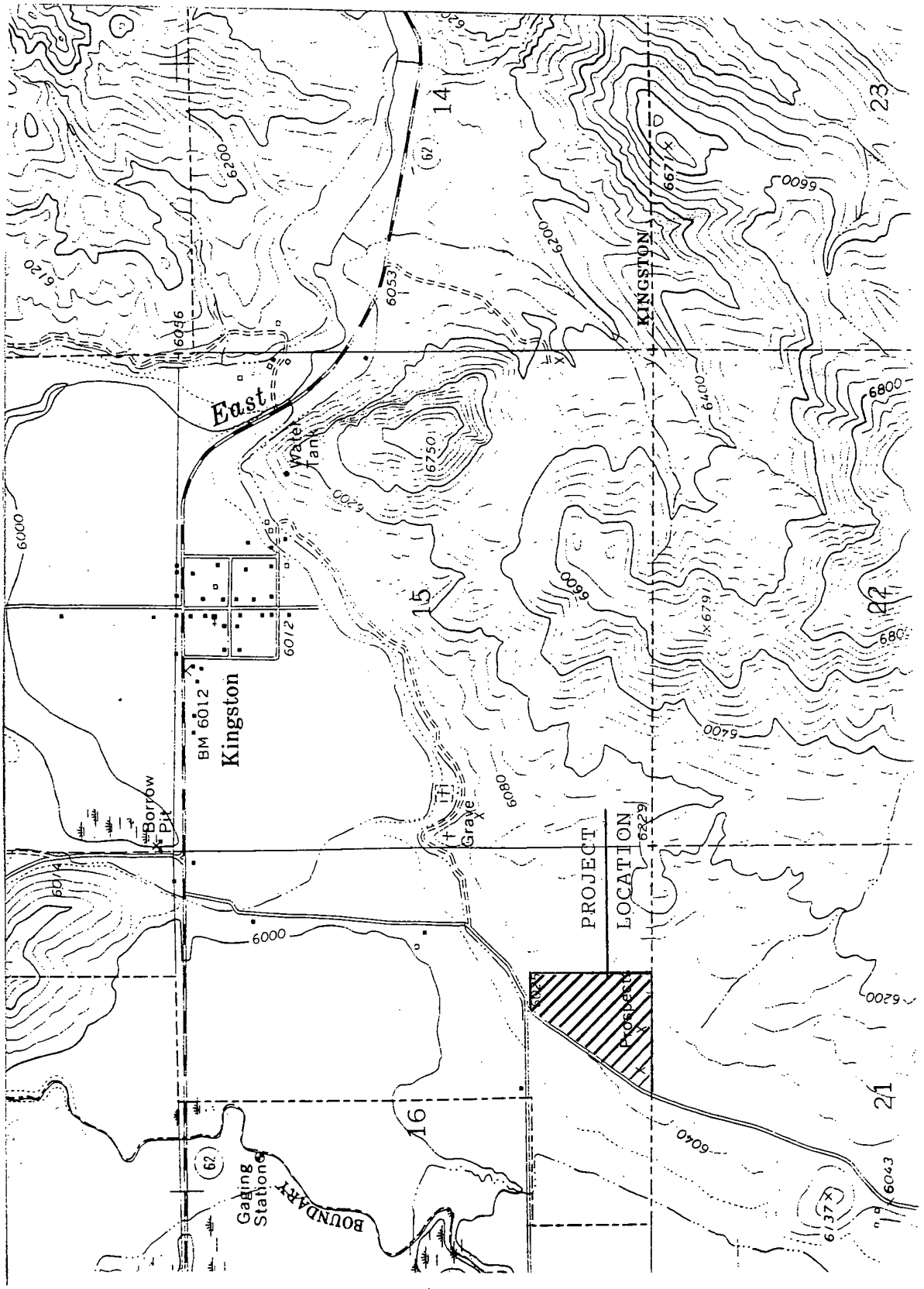
EXHIBITS

Exhibit #1:	General Vicinity Map
Exhibit #2:	Project Location Map
Exhibit #3:	Service Area
Exhibit #4a-4b:	Daily Record Form
Exhibit #5:	Quarterly Inspection Log
Exhibit #6:	Landfill Map



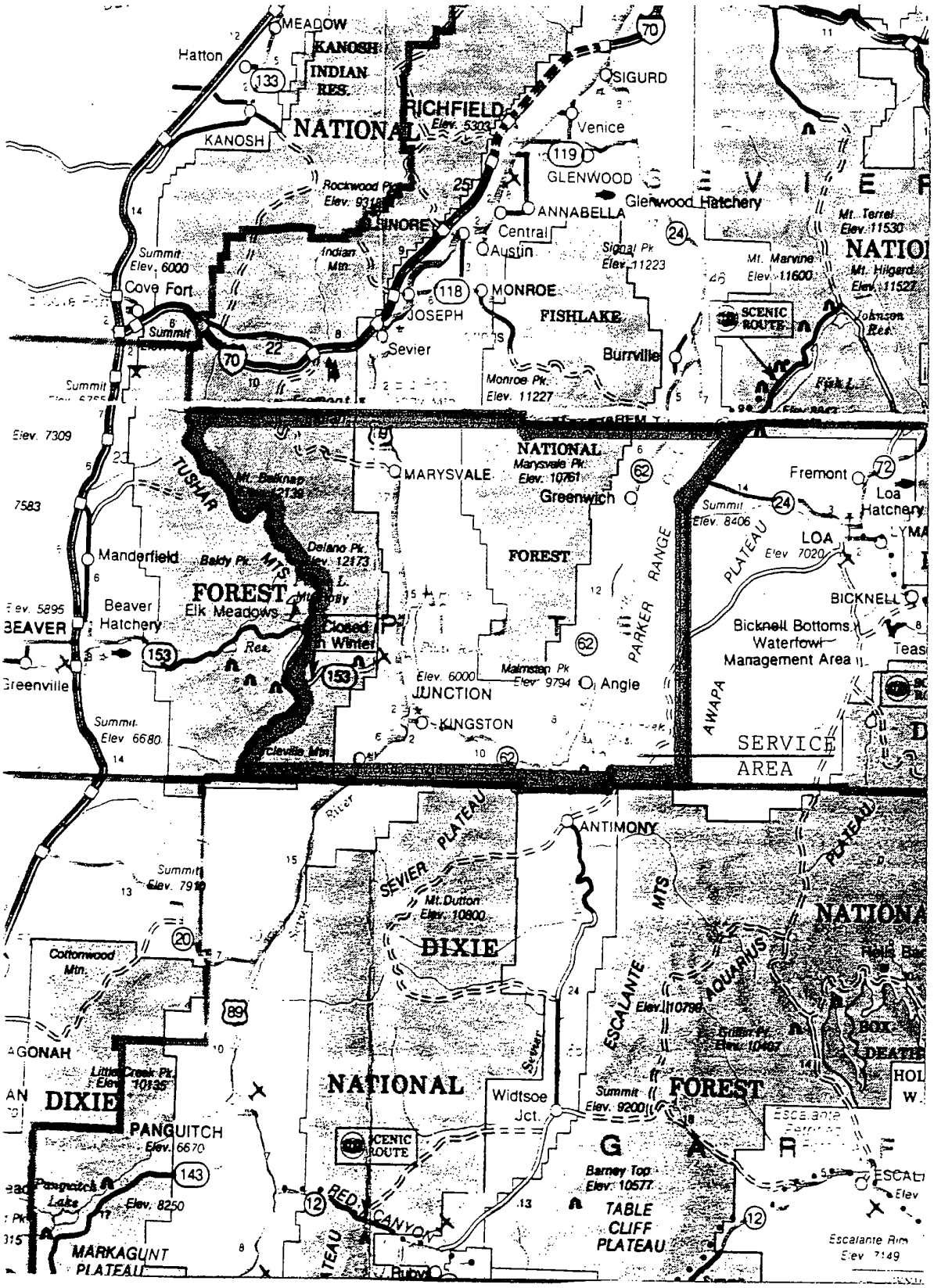
TRI CITY CLASS IV LANDFILL

Exhibit 1. General Vicinity Map



TRI CITY CLASS IV LANDFILL

Exhibit 2. Project Location Map



TRI CITY CLASS IV LANDFILL

Exhibit 3. Service Area

TRI CITY CLASS IV LANDFILL

Weight, Volume, and Vehicle Record

Date: _____ Day of Week: _____ Page ____ of ____

Time	Vehicle No.	Est. Volume Cu. Yds.	Est. Weight Tons	Origin	Type of Waste

Signature _____ Date _____

TRI CITY CLASS IV LANDFILL

Exhibit 4a. Daily Record Form

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 Solid and Hazardous Waste at (801) 538-6170

Signature _____ Date _____

TRI CITY CLASS IV LANDFILL

Exhibit 4b. Hazardous/PCB Waste Record Form

Tri City Class IV Landfill Quarterly Inspection Log

This document is the official form required for compliance with R315-301-7(5)(a) for the Tri City Class IV Landfill.

Date _____ Time _____ Weather _____

Inspection Team: _____

_____

Observations: _____

_____

_____

_____

_____

Date and Nature of Repairs/Corrective Action: _____

_____

_____

Other: _____

_____

_____

_____

Explosive Gas Monitoring _____ Structures _____ Property Boundary

Training Procedures Completed: _____

_____

Major Deviations from Plan of Operation: _____

_____

_____ _____

Name of Inspector Signature

This form shall be kept on site or at another convenient location if no permanent office facilities exist for a minimum of 3 years.

TRI CITY CLASS IV LANDFILL

Exhibit 5. Quarterly Inspection Log

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Compression type 6 not supported e:/rware/dshw/data/General_Lib_FR/image/fr4313/SW200803