



State of Utah

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Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL

Douglas J. Hansen
Director

June 8, 2021

David Norman, Public Works Director
Lehi City Corporation
P.O. Box 255
Lehi, UT 84043

RE: Draft Permit - Lehi City Class IVb Landfill, Utah County
SW202

Dear Mr. Norman:

The Division of Waste Management and Radiation Control has completed its review of your renewal application to operate the Lehi City Class IVb Landfill. The application has been determined complete.

A draft permit has been prepared and is enclosed for your review. Please review it and notify our office, by June 25, 2021, if you have questions or comments. After your review, the Division intends to begin the required 30-day public comment period. Following the public comment period and resolution of any comments, final action will be taken on the draft permit.

If you have any questions, please call Matt Sullivan at (801) 536-0241.

Sincerely,

Brian Speer, Solid Waste Program Manager
Division of Waste Management and Radiation Control

BS/MS/wa

Enclosures: Draft Permit (DSHW-2021-007344)
Attachment 1 – Operations Plan (DSHW-2021-007346)
Attachment 2 – Closure & Post-Closure (DSHW-2021-007348)

c: Eric Edwards, Health Officer, Utah County Health Department
Tyler Plewe, Deputy Director, Utah County Health Department
Jason Garrett, Environmental Director, Utah County Health Department

DSHW-2021-007350

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DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL
SOLID WASTE LANDFILL PERMIT

CLASS IVb SOLID WASTE PERMIT *RENEWAL*

Lehi City Class IVb LANDFILL

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

Lehi City Corporation as owner and operator
(Permittee),

to own and operate the Lehi City Class IVb Landfill located in the Northeast 1/4 section of Section 7, Township 5 South, Range 1 East, Salt Lake Base and Meridian, Utah County, Utah as shown in the Permit *Renewal* Application that was determined complete on May 12, 2021 (DSHW-2021-006516).

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

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

This Permit shall become effective _____.

This Permit shall expire at midnight _____.

Closure Cost Revision Date: _____.

Signed this _____ day of _____, 2021.

Douglas J. Hansen, Director
Division of Waste Management and Radiation Control

FACILITY OWNER/OPERATOR INFORMATION

LANDFILL NAME:	Lehi City Class IVb Landfill
OWNER NAME:	Lehi City Corporation
OWNER ADDRESS:	P.O Box 255, Lehi, UT 84043
OWNER PHONE NO.:	(385) 201-1000
OPERATOR NAME:	same as above
OPERATOR ADDRESS:	same as above
OPERATOR PHONE NO.:	same as above
TYPE OF PERMIT:	Class IVb Landfill
PERMIT NUMBER:	9816R3
LOCATION:	Landfill site is located in Township 5 South, Range 1 East Section 5, SLMB; Utah County; Lat. 40° 25' 5", Lon. 111° 51' 12". 2538 North 300 West, Lehi, Utah.
PERMIT HISTORY	This facility first received its first permit to accept solid waste approximately in 1998. Prior to this, the location was used as the city's local disposal location. This is the third renewal of the permit. This renewal permit is effective on the date shown on the signature page.

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

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

The facility as described in this Permit consists of a maintenance building, construction and disposal area, green waste collection area, and concrete and asphalt reusable collection areas.

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

The issuance of this Permit does not convey any property rights, in either real or personal property, or any exclusive privileges. Nor does this Permit authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations, including zoning ordinances.

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

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

PERMIT REQUIREMENTS

I. GENERAL COMPLIANCE RESPONSIBILITIES

I.A. General Operation

I.A.1. The Permittee shall operate the landfill in accordance with all applicable requirements of R315-305 of the Utah Administrative Code that are in effect as of the date of this Permit unless otherwise noted in this Permit. Any permit noncompliance or noncompliance with any applicable portions of Utah Code Ann § 19-6-101 through 125 and applicable portions of R315-301 through 320 of the Utah Administrative Code constitutes a violation of the Permit or applicable statute or rule and is grounds for appropriate enforcement action, permit revocation, modification, termination, or denial of a permit renewal application.

I.B. Acceptable Waste

- I.B.1. Construction/demolition solid waste as defined in R315-301-2(17) of the Utah Administrative Code;
- I.B.2. Yard waste as defined in R315-301-2(87) of the Utah Administrative Code;
- I.B.3. Inert waste, as defined in R315-301-2(37) of the Utah Administrative Code;
- I.B.4. Petroleum contaminated soils as allowed in R315-315-8(3) of the Utah Administrative Code.

I.C. Prohibited Waste

- I.C.1. Hazardous waste as defined by R315-261 of the Utah Administrative Code;
- I.C.2. PCBs as defined by R315-301-2(53) of the Utah Administrative Code, except PCB's specified by R315-315-7(2)(a) and (c) of the Utah Administrative Code;
- I.C.3. Household waste, except waste resulting from the abatement, rehabilitation, renovation and remodeling of homes and other residences;
- I.C.4. Municipal waste;
- I.C.5. Special waste except as specified in this Permit;
- I.C.6. Regulated asbestos-containing material;
- I.C.7. Industrial solid waste as defined in R315-301-2(35) of the Utah Administrative Code;
- I.C.8. Commercial solid waste as defined in R315-301-2(14) of the Utah Administrative Code;
- I.C.9. Containers larger than household size (five gallons) holding any liquid, non-containerized material containing free liquids or any waste containing free liquids in containers larger than five gallons;
- I.C.10. Dead animals;
- I.C.11. Waste Tires; and

- I.C.12. Batteries.
- I.C.13. Any prohibited waste received and accepted for disposal at the facility shall constitute a violation of this Permit, of 19-6-101 through 125 and of R315-301 through 320 of the Utah Administrative Code.
- I.D. Inspections and Inspection Access
- I.D.1. The Permittee shall allow the Director of the Division of Waste Management and Radiation Control or an authorized representative, or representatives from the Utah County Health Department, to enter at reasonable times and:
- I.D.1.a Inspect the landfill or other premises, practices or operations regulated or required under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;
- I.D.1.b Have access to and copy any records required to be kept under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;
- I.D.1.c Inspect any loads of waste, treatment facilities or processes, pollution management facilities or processes, or control facilities or processes required under this Permit or regulated under R315-301 through 320 of the Utah Administrative Code; and
- I.D.1.d Create a record of any inspection by photographic, video, electronic, or any other reasonable means.
- I.E. Noncompliance
- I.E.1. If monitoring, inspection, or testing indicates that any permit condition or any applicable rule under R315-301 through 320 of the Utah Administrative Code may be or is being violated, the Permittee shall promptly make corrections to the operation or other activities to bring the facility into compliance with all permit conditions or rules.
- I.E.2. In the event of noncompliance with any permit condition or violation of an applicable rule, the Permittee shall promptly take any action reasonably necessary to correct the noncompliance or violation and mitigate any risk to the human health or the environment. Actions may include eliminating the activity causing the noncompliance or violation and containment of any waste or contamination using barriers or access restrictions, placing of warning signs or permanently closing areas of the facility.
- I.E.3. The Permittee shall:
- I.E.3.a Document the noncompliance or violation in the daily operating record, including the day the event occurred or the day it was discovered;
- I.E.3.b Notify the Director of the Utah Division of Waste Management and Radiation Control by telephone within 24 hours, or the next business day following documentation of the event; and
- I.E.3.c Give written notice of the noncompliance or violation and measures taken to protect human health and the environment within seven days after Director notification.

I.E.4. Within thirty days after the documentation of the event, the Permittee shall submit to the Director a written report describing the nature and extent of the noncompliance or violation and the remedial measures taken or to be taken to protect human health and the environment and to eliminate the noncompliance or violation. After review of the assessment report, the Director may order the Permittee to perform appropriate remedial measures including development of a site remediation plan for approval by the Director.

I.E.5. In an enforcement action, the Permittee may not claim as a defense that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with R315-301 through 320 of the Utah Administrative Code and this Permit.

I.F. Revocation

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

I.G. Attachment Incorporation

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

II. DESIGN AND CONSTRUCTION

II.A. Design and Construction

II.A.1. The landfill shall be maintained according to the design illustrations in Attachment 1, including landfill cells, fences, gates, and berms.

II.A.2. The Permittee shall notify the Director upon completion of construction of any landfill cells or run-on and run-off diversion systems. No landfill cells or run-on and run-off diversion system may be used until construction is approved by the Director.

II.A.3. The Permittee shall notify the Director of the completion of construction of any final cover system and shall provide all necessary documentation and shall apply for approval of the construction from the Director.

II.A.4. If ground water is encountered during excavation of the landfill, the Director shall be notified immediately, and a contingency plan implemented or alternative construction design developed and submitted for approval.

II.B. Run-On and Run-off Control

II.B.1. The Permittee shall maintain drainage channels and diversions as specified in the Attachment 1 and shall maintain them at all times to effectively prevent runoff from the surrounding area from entering the landfill.

III. LANDFILL OPERATION

III.A. Operations Plan

III.A.1. The Permittee shall keep the Operations Plan included in Attachment 1 on site at the landfill or at the location designated in section III.H of this Permit. The Permittee shall operate the landfill in accordance with the operations plan. If necessary, the Permittee may modify the Operations Plan following the procedures of R315-311-2(1) of the Utah Administrative Code and approved of by the Director. The Permittee shall note any modification to the Operations Plan in the daily operating record.

III.B. Security

III.B.1. The Permittee shall operate the Landfill so that unauthorized entry to the facility is restricted. The Permittee shall:

III.B.1.a Lock all facility gates and other access routes during the time the landfill is closed.

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

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

III.C. Training

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

III.D. Burning of Waste

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

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

III.E. Cover

- III.E.1. The Permittee shall cover the waste as necessary to prevent fires and to control vectors, blowing litter, odor, scavenging, and fugitive dust.
- III.E.2. The Permittee may use an alternative cover material when the material and operation meets the requirements of R315-303-4(4)(b) through (e) of the Utah Administrative Code.
- III.E.3. The Permittee shall use a minimum of six inches of earthen cover no less than once each month for all wastes received at the landfill. This cover shall consist of soil; no alternative may be used.
- III.E.4. The Permittee shall record in the daily operating record and the operator shall certify, at the end of each day of operation when soil or an alternative cover is placed, the amount and type of cover placed and the area receiving cover.

III.F. Waste Inspections

- III.F.1. The Permittee shall visually inspect incoming waste loads to verify that no wastes other than those allowed by this permit are disposed in the landfill. The Permittee shall conduct a complete waste inspection at a minimum frequency of 1 % of incoming loads, but no less than one complete inspection per day. The Permittee shall select the loads to be inspected on a random basis.
- III.F.2. The Permittee shall inspect all loads suspected or known to have one or more containers capable of holding more than five gallons of liquid to ensure that each container is empty.
- III.F.3. The Permittee shall inspect all loads that the Permittee suspect may contain a waste not allowed for disposal at the landfill.
- III.F.4. The Permittee shall conduct complete random inspections as follows:
 - III.F.4.a The Permittee shall conduct the random waste inspection at the working face or an area designated by the Permittee.
 - III.F.4.b The Permittee shall direct that loads subjected to complete inspection be unloaded at the designated area;
 - III.F.4.c Loads shall be spread by equipment or by hand tools;
 - III.F.4.d Personnel trained in hazardous waste recognition and recognition of other unacceptable waste shall conduct a visual inspection of the waste; and
 - III.F.4.e The personnel conducting the inspection shall record the results of the inspection on a waste inspection form as found in Attachment 1. The Permittee shall place the form in the daily operating record at the end of the operating day.
 - III.F.4.f The Permittee or the waste transporter shall properly dispose of any waste that is not acceptable at the facility at an approved disposal of that type of waste.

III.G. Self Inspections

III.G.1. The Permittee shall inspect the facility to prevent malfunctions and deterioration, operator errors, and discharges that may cause or lead to the release of wastes or contaminated materials to the environment or create a threat to human health or the environment. The Permittee shall complete these general inspections no less than quarterly and shall cover the following areas: Waste placement, compaction, adequate cover, fences and access controls, roads, run-on/run-off controls, final and intermediate cover, litter controls, and records. The Permittee shall record the inspections in the daily operating record on the day of the inspection. The Permittee shall correct the problems identified in the inspections in a timely manner and document the corrective actions in the daily operating record.

III.H. Recordkeeping

III.H.1. The Permittee shall maintain and keep on file at the Public Works Department offices, a daily operating record and other general records of landfill operation as required by R315-302-2(3) of the Utah Administrative Code. The landfill operator, or other designated personnel, shall date and sign the daily operating record at the end of each operating day. The Daily operating record shall consist of the following two types of documents:

III.H.2. 1. Records related to the daily landfill operation or periodic events including:

III.H.2.a The number of loads of waste and the weights or estimates of weights or volume of waste received each day of operation and recorded at the end of each operating day;

III.H.2.b Major deviations from the approved plan of operation recorded at the end of the operating day the deviation occurred;

III.H.2.c Results of monitoring required by this Permit recorded in the daily operating record on the day of the event or the day the information is received;

III.H.2.d Records of all inspections conducted by the Permittee, results of the inspections, and corrective actions.

III.H.3. Records of a general nature including:

III.H.3.a A copy of this Permit, including the Attachments;

III.H.3.b Results of inspections conducted by representatives of the Director and representatives of the local Health Department, when forwarded to the Permittee;

III.H.3.c Closure and Post-closure care plans; and

III.H.3.d Records of employee training.

III.I. Reporting

III.I.1. The Permittee shall prepare and submit to the Director an Annual Report as required by R315-302-2(4) of the Utah Administrative Code. The Annual Report shall include: the

period covered by the report, the annual quantity of waste received, an annual update of the financial assurance mechanism, and all training programs completed.

III.J. Roads

III.J.1. The Permittee shall improve and maintain all access roads within the landfill boundary that are used for transporting waste to the landfill for disposal as necessary to assure safe and reliable all-weather access to the disposal area.

III.K. Litter Control

III.K.1. Litter resulting from operations of the landfill shall be minimized. In addition to the litter control plans found in Attachment 1, the Permittee shall implement the following procedures when high wind conditions are present:

III.K.1.a Reduce the size of the tipping face;

III.K.1.b Reduce the number of vehicles allowed to discharge at the tipping face at one time;

III.K.1.c Orient vehicles to reduce wind effects on unloading and waste compaction;

III.K.1.d Reconfigure tipping face to reduce wind effect;

III.K.1.e Use portable and permanent wind fencing as needed; and

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

IV. **CLOSURE REQUIREMENTS**

IV.A. Closure

IV.A.1. The Permittee shall place the final cover of the landfill as shown in the Attachment 2. The final cover shall meet, at a minimum, the standard design for closure as specified in R315-305-5(5)(b) of the Utah Administrative Code.

IV.B. Title Recording

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

IV.C. Post-Closure Care

IV.C.1. The Permittee shall perform post-closure care at the closed landfill in accordance with the Post-Closure Care Plan in Attachment 2. Post-closure care shall continue until all waste disposal sites at the landfill have stabilized and the finding of R315-302-3(7)(c) of the Utah Administrative Code is made.

IV.D. Financial Assurance

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

IV.D.2. With each annual revision of the closure and post-closure care cost estimate, the Permittee shall determine the annual payments to be made to the trust fund by the following formula:

$$NP=[CE-CV]/Y$$

where NP is the next payment, CE is the current cost estimate for closure and post-closure care (updated for inflation or other changes), CV is the current value of the trust fund, and Y is the number of years remaining in the pay-in period.

IV.E. Financial Assurance Annual Update

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

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

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

V. ADMINISTRATIVE REQUIREMENTS

V.A. Permit Modification

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

V.B. Permit Transfer

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

V.C. Expansion

V.C.1. Any expansion of the current footprint designated within the property boundaries described in the permit application shall require submittal of plans and specifications to

the Director. The plans and specifications shall be approved by the Director prior to construction.

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

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

V.D. Expiration

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

VI. ATTACHMENTS

Attachment 1 – Operations Plan

Attachment 2 – Closure & Post-Closure

Statement of Basis

Attachment 1

Operations Plan

Waste placement at the landfill is intermittent. Waste is placed in the active area by city trucks and cover material (which will be stockpiled) from on site will be placed as needed. As most waste is “heavy” and not organic, the need for intermediate or daily cover will be minimal.

CAPACITY

According to recent (January 2021) GIS drone footage we currently have the capacity of an additional 44,000 cubic yards. At the current rate of ~20,000 cubic yards per 10 years of waste fill equates to the beneficial use lifespan of the landfill ~20 years.

HOURS OF OPERATION

The Lehi City Landfill is opened only when Lehi City transports its disposal wastes to the site. The hours that the city is open is from 6:30am to 5:00 pm Monday through Thursday. At all other times the facility is closed to the public and/or contractors, and the gate locked.

FACILITY SIGNAGE

Pursuant to UAC R315-305-5(2), Lehi City shall erect a sign at the facility entrance which identifies the name of the facility, the hours during which the facility is open, and emergency telephone numbers.

WASTE CHARACTERISTICS AND PROCEDURES

Lehi City Class IV(b) Landfill provides waste disposal capacity for city operations and city related construction projects, Lehi City will limit waste disposal at the landfill to approximately 250 cubic yards per month on an annual average over the remaining life of the landfill. A daily log (Table 3) submission of waste being dumped in the landfill will be filled out every time there is waste added to the landfill.

The landfill will remain a Class IV(b) facility and will be operated in compliance with the regulations for Class IV(b) waste landfill facilities as described in the Plan of Operations. Waste accepted for disposal at the site is comprised solely of inert waste, construction and demolition debris, wood and yard waste that meet the requirements of Utah Administrative Code R315-301 through 320.

Lehi City will periodically rent a crusher when reusable material piles are full. When the crusher is onsite it will be required that all personnel check in with those operating the crusher to prevent accident or harm to persons or property. The reusable material will be used for Lehi City projects. In the event of excess material, it will be disbursed to prevent premature filling the landfill with reusable materials.

WASTE HANDLING PROCEDURES

Pursuant to UAC R315-302-2 (2), the Plan of Operation provides for a description of onsite solid waste handling procedures during the active life of the facility. The waste accepted at the Lehi City Landfill is comprised of inert waste, construction and demolition debris and yard waste. Excluded wastes include, but are not limited to, industrial wastes, liquids, sewage sludge, hazardous materials, household and commercial wastes, contaminated soils, grease, and waste oils.

The quantity of incoming waste is visually estimated and recorded by city personnel stationed at the facility. Daily logs (Table 3) of all incoming waste are maintained and will be entered into the operating record. On average there is 0-3 tons of material added to the landfill

per day. Lehi City has the goal and practice to create as little non reusable waste as possible and implements this practice into the procedures implemented at the Lehi City Class IV(b) Landfill.

CONCRETE / MIXED LOADS / OTHER NON-HAZARDOUS WASTES

Concrete and mixed loads must be non-hazardous in order to be accepted; these debris are broken down to be reused for maintaining city infrastructure such as millings for shoulders and access roads. Any unused debris are deposited at the active disposal face and periodically compacted (if possible), separated and covered with soil to prevent uncontrolled fires, rodent or vector harborage and differential settlement.

ORGANIC MATERIAL

Applicable material such as tree cutting and pruning waste is processed through a chipper and re used as weed control and mulch for the Lehi City Parks department. Other applicable and nonreusable material is either deposited in the landfill or small quantities are burned. Open burning of stockpiled tree limbs and woody yard waste will take place one time per year in accordance with Air Quality Rules Sub Section R307-1-2.4.4 (B)(5). Prior to any burning, Lehi City will obtain a permit from its local fire department.

ACCEPTABLE WASTE DESCRIPTIONS

Reusable wastes and percentages of debris include but are not limited to:

- Concrete / Mixed Loads: ~35%
 - Old road base over 1"
 - Any mixed loads of Asphalt/concrete/road base
 - Fill material over 1"
 - Minimal Dirt/rock

- Clean Asphalt
- Organic Material: ~60%
 - Trees
 - Weeds
 - Sod
 - Topsoil
- Other Non-Hazardous Construction Waste (Bottom of Landfill, non-reusable) ~5%
 - Garbage: bricks, playground equipment, pvc pipes (sprinkler lines), etc.

*If the load doesn't meet one of the acceptable waste descriptions contact the inspector.

LANDFILL RESTRICTIONS

Wastes which are prohibited from disposal at the Lehi City Class IV(b) Landfill include Pursuant to UAC R315-303-4(7), an operator of a landfill shall not knowingly dispose, treat, store, or otherwise handle hazardous waste or waste containing PCBs (polychlorinated biphenyl). An owner or operator of a landfill shall include and implement as part of the plan of operations a plan that will inspect loads or take other steps as approved by the Director that will prevent the disposal of hazardous waste or waste containing PCBs. These procedures include random load inspections, training records of facility personnel, handling procedures for hazardous and PCB wastes and notification of the solid waste management authority. If hazardous wastes, PCBs, or other suspicious wastes are found, the appropriate authorities will be contacted. Lehi City will be advised on how to manage it and implement appropriate mitigation. Tires are taken to Les Schwab tire center for recycling and disposal.

THE FOLLOWING ITEMS ARE PROHIBITED AND INCLUDE BUT ARE NOT LIMITED TO:

- **INDUSTRIAL WASTES**
- **HAZARDOUS MATERIALS**
- **SEWAGE SLUDGE**
- **GREASE TRAPPINGS**
- **DEAD ANIMALS**
- **TIRES**
- **BATTERIES**
- **WASTE OILS**
- **OTHER ILLICIT OR HAZARDOUS MATERIALS**

*If you see any of these items, please contact the inspector immediately.

FIRE AND EXPLOSION PREVENTION PLAN

No hazardous materials that could start a fire will be accepted or stored in the landfill. In the event of an uncontrolled fire or explosion, 911 will be called and dispatch will send out our local Fire department located at 250 West 2600 North. Lehi City.

DUST CONTROL

The roads in the landfill will be periodically water and planted with asphalt millings. In the event of high winds/high heat dust becomes a nuisance call the landfill inspector to rectify the problem.

LITTER CONTROL PROGRAM

Litter control measures will be implemented at the Lehi Landfill to prevent scattering of lightweight debris. Litter collection will be performed on an as-needed basis by Lehi City Streets Department personnel or contracted day-laborers.

SCAVENGING/SALVAGING

Scavenging and salvaging at the Lehi Landfill are prohibited in all areas of the facility.

This provision is enforced using access control measures, perimeter fencing, and employee diligence.

VECTOR CONTROL PROGRAM

Pursuant to UAC R315-303-5(4), appropriate control and prevention of disease vectors at the Lehi Landfill will be used for the protection of public health and safety. Control and prevention is accomplished using techniques appropriate for the protection of public health and safety and the environment. Compaction and grading of waste at the active face prevents vector harborage in the waste mass. This waste management practice assures minimum exposure of 2 - 8 wastes to potential disease vectors by reducing available entry space, food sources, and nesting locations. Rodent populations may be controlled using poisons, smoke devices, or sonar techniques, if necessary. Insect breeding areas, which may develop in areas of stagnant water or putrescible wastes, will be addressed as discovered. The presence of standing water at the facility will be minimized through the uniform grading of fill surfaces and the installation of a drainage control system. The accumulation of fluids in the waste mass will be minimized by the restriction of liquid wastes accepted at the landfill. If insect infestations occur despite these measures, approved insecticidal sprays or other methods may be employed.

INSPECTIONS/DAILY LOG

The landfill attendant will conduct periodic site inspections for litter, scattered paper, and other lightweight debris. All recovered waste is returned to the active fill area for proper disposal. Quarterly inspections will be performed and will include a visual inspection of drainage control systems, fill surfaces, perimeter fencing, and site equipment and structures. Quarterly inspection reports (Figure 10) and daily logs (Table 3) will be entered into the operating record and turned into the Public Works Administrative Assistant monthly and will be kept on file for three years.

TRAINING

Each department will be expected to meet with the Lehi City Landfill Inspector once a year to complete basic training and landfill standards at the Lehi City Class IV(b) Landfill. This training will include identification of containers and labels typically used for hazardous and PCB wastes. Training of hazardous waste handling, safety precautions, and record keeping requirements. Documentation of personnel training will be included with the operation for the facility (Table 4) and kept on file for three years.

PERMITS

All permits/closures and post closure documents will be kept with logbooks can be referenced online and onsite. It is our goal to maintain and prolong the beneficial use of the Lehi City Class IV(b) Landfill as long as we can without filling it with reusable/recyclable materials.

LAND USE AND ZONING

The landfill site is within Lehi City zoning boundaries designated as PF (Public Facilities). Use of the site for landfilling purposes is consistent with PF zoning classification and the Lehi City

APPENDIX A: Reference Map

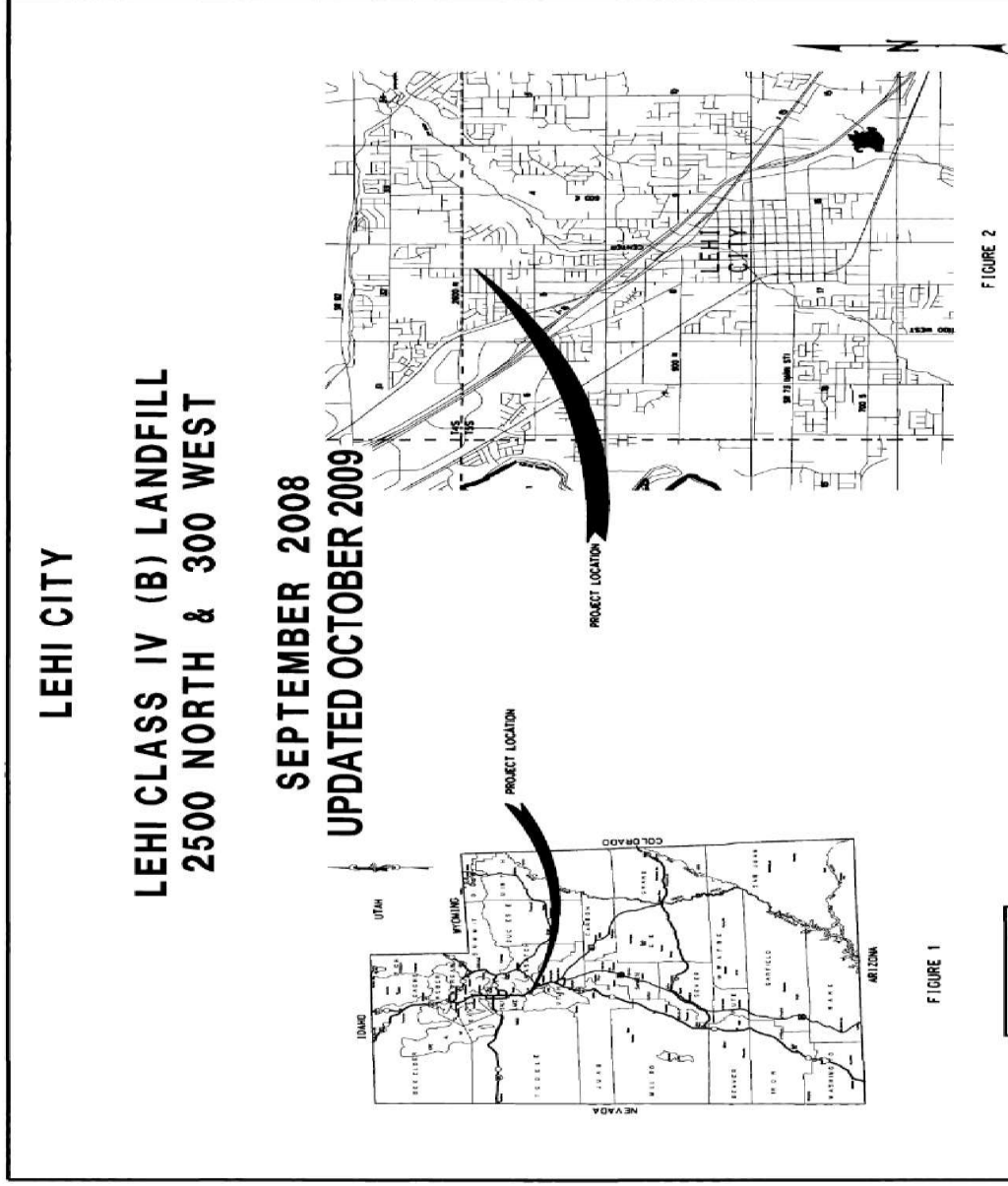


Figure 1: Lehi City Class IV(b) Landfill reference map in relation to the state of Utah.

APPENDIX B: Lehi City Class IV(b) Landfill site location maps



Figure 2: Landfill vicinity map showing gated perimeter and landfill area.

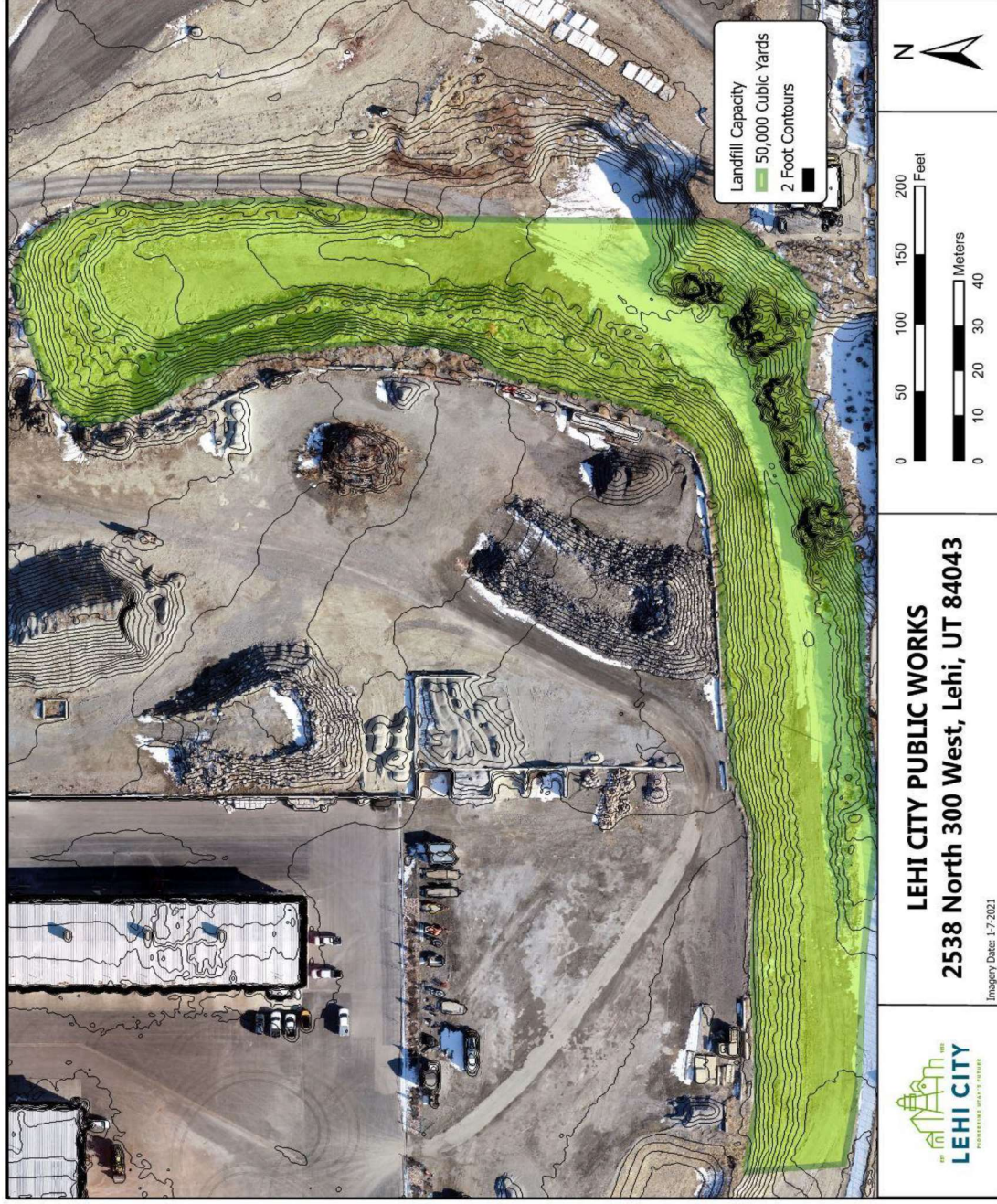


Figure 3: Lehi City Class IV(b) Landfill two-foot contours and available capacity.

APPENDIX C: Lehi City water and street plan surrounding facilities and structures.

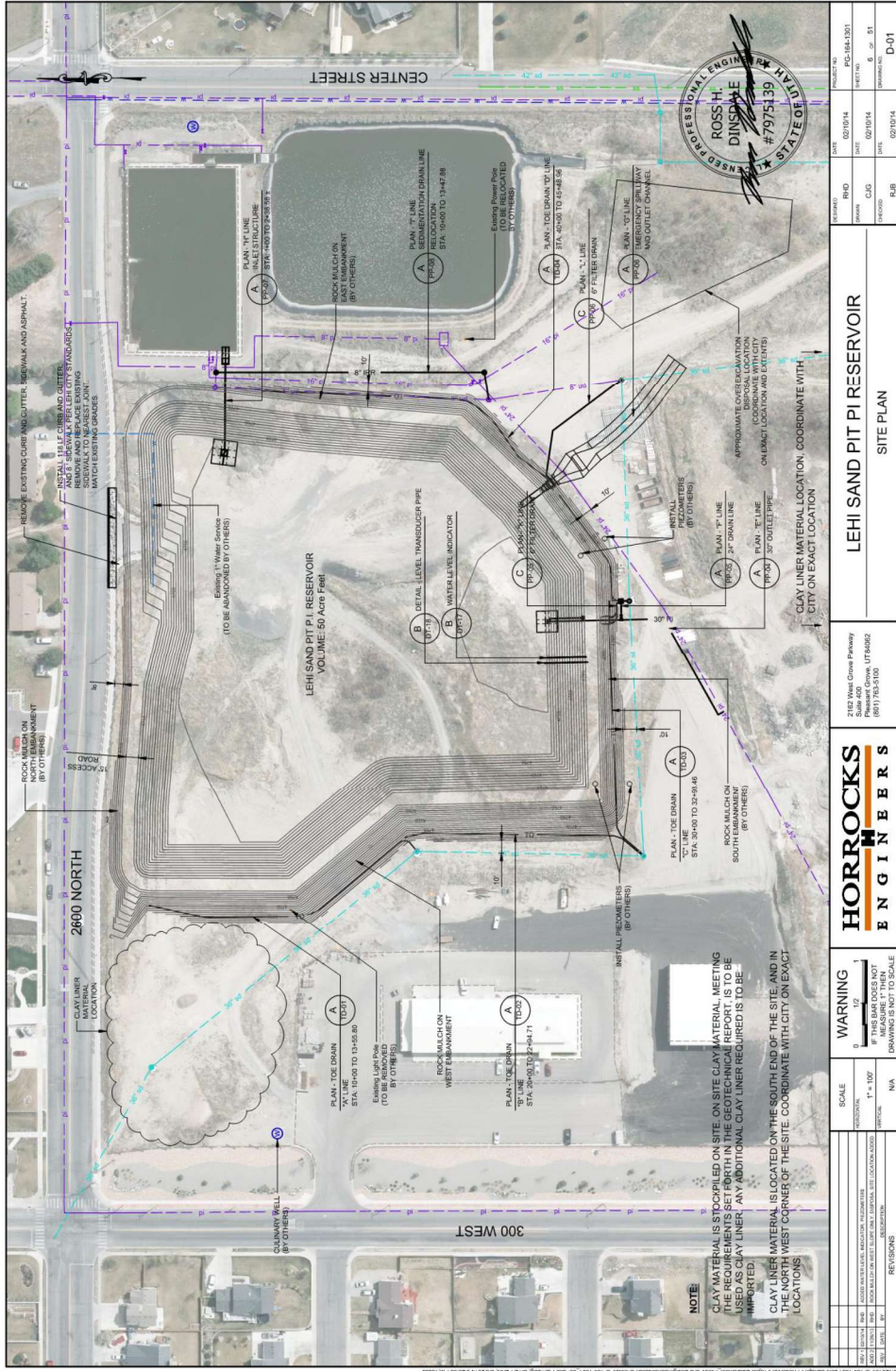


Figure 4: Lehi Sand Pit Reservoir plans. Date February 2014.

APPENDIX F: Logs and Recordkeeping

Table 3: Lehi City Landfill Daily activity log example.

LEHI CITY CLASS IV(b) DAILY LANDFILL ACTIVITY LOG					
Date	Time	Driver Name	Estimated Volume (TONS)	Vehicle #	Description of what was dumped & Location

Table 4: Lehi City landfill training form.

LEHI LAND FILL TRAINING			
Name of Participants PRINTED: FIRST & LAST	SIGNATURES	Date	DEPARTMENT



Lehi City Class IV(b) Landfill Quarterly / Periodic Inspection Log

Date: _____ Time: _____

Inspector: _____

Observations: _____

Waste placement description: _____

- Fences and access controls present and properly maintained? YES NO N/A
- Have roads been maintained properly and are clear of debris and piles? YES NO N/A
- Are stormwater run-on/run-off controls present and are they being maintained? YES NO N/A
- Is there adequate cover present for waste piles? YES NO N/A
- Are final and intermediate cover present? YES NO N/A
- Are litter controls present to eliminate litter outside the designated landfill area? YES NO N/A
- Are there any liquids leaching into the ground? YES NO N/A
- Any unauthorized waste observed? YES NO N/A
- Has the landfill reached or exceeded its storage capacity? YES NO N/A

Recommended actions: _____

Has recommended actions from the last inspection been remediated? YES NO N/A

Figure 10: Lehi City landfill quarterly inspection report form.

Attachment 2

Closure & Post-Closure

CLOSURE PLAN-

Closure of the landfill will be performed in such a manner as to:

“minimize the need for further maintenance, minimize or eliminate threats to human health and the environment from post-closure escape of solid waste constituents, leachate, landfill gases, contaminated run-off or waste decomposition products to the ground, ground water, surface water, or the atmosphere, and, adequately prepare the facility for the post-closure period.”

This plan and any future alterations or amendments to this plan will be maintained with the operations plan for the facility at the Lehi Public Works Office.

CLOSURE SCHEDULE

At least 60 days before the projected final receipt of waste, Lehi City will notify the Director of the intent to close the Lehi City Class IV(b) Landfill and implement the closure plan. Within thirty days after the final receipt of waste, Lehi City will implement the approved closure plan. The closure activities described in this plan will be completed within 180 days of initiation. Following the completion of closure activities, Lehi City will submit to the Director a set of as-built drawings of final closure construction.

CLOSURE CONSTRUCTION

The final cover will be constructed with two feet compacted native soil with the upper six inches will be topsoil or other suitable soil which is capable of sustaining plant growth. The final

cover will be revegetated and graded to prevent ponding and minimize infiltration of run-off waters.

Based on the vertical and lateral design presented in the maps, Lehi City will perform final cover placement at the end of the active life of each area of the landfill. Closure activities will be initiated when the development of the site reaches the final design height. As a result, the size of the area to be closed will encompass the entire 8.26-acre limit of final cover placement. Any soil contamination remaining after the final receipt of waste will be removed, treated, or disposed of according to applicable regulations. Following the final receipt of waste, any remaining stockpiles of recyclable or other stored materials will be removed from the site.

Rough contouring will be performed throughout the life of the site during daily operations. Following the general site cleanup described above, final contouring will be performed using waste and native soils to establish a suitable foundation for final cover construction. The site will be surveyed to establish base elevations for closure cap construction. After final grading of the foundation layer, the final cover will be constructed, following the placement and compaction of a minimum of two feet of native soil, the landfill will again be surveyed to verify the final thickness of the final cover layer. As described above, the upper six inches of the final cover layer will be comprised of topsoil or a comparable soil which can sustain native plant growth.

FINAL INSPECTION

The closure cost estimate is attached to show closure costs for 2021, it is estimated that the site will be closed by sections. The cost estimate assumes that an outside contractor will perform

the construction tasks and a ten percent contingency will be built into the final estimate to account for variances in unit costs and any possible unforeseen circumstances. Lehi City is complying with the Financial assurance requirements and provides annual proof that they can provide closure construction and post closure maintenance at the Lehi City Class IV(b) Landfill.

Table 1: Closure maintenance cost estimate

ITEM	UNIT	\$/Unit	#UNITS	COST
1 - Topographic Survey	Day	\$2,500.00	2	\$5,000
2- Contract Admin, Bidding, and Award	LS	10% total cost	n/a	\$38,335
3 - Project Management/CQA	LS	\$8,000	n/a	\$8,000
Engineering Subtotal				\$51,335
4 - Water Truck	LS	\$10,000	n/a	\$10,000
5- On-site Final Cover Soil Acquisition	5 yd ³ /load	\$18.50	11,000	\$203,500
6 - Final Cover Placement	yd ³	\$1.00/yd ³	50,000	\$50,000
7 - Revegetation & Landscaping	acre	\$8,500/acre	10	\$85,000
Construction Subtotal				\$348,500
Engineering Subtotal				\$51,335
Construction Subtotal				\$348,500
10% Contractor Fee				\$34,850
1.5% Bond Fee				\$6,520
Subtotal				\$441,205
10% Contingency				\$44,121
Total				\$485,326

POST-CLOSURE PLAN

The Post-Closure Plan care and maintenance of Lehi Class IV(b) Landfill will be performed in accordance with this plan, which provides continued facility maintenance.

The design of the Lehi Class IV(b) Landfill does not include a gas monitoring, ground water monitoring, or leachate collection system; therefore, the post-closure plan does not include provisions for gas or ground water monitoring. The office listed below may be contacted during the pos-closure period regarding issues which concern the landfill property plan

Lehi Public Works Director
2538 N 300 W
PO Box 255
Lehi, Utah 84043
385-201-1000

POST-CLOSURE SCHEDULE

Post-closure activities will be initiated immediately following the completion of the closure activities described in this application. Post-closure activities will continue for a period of thirty years or a period established by the Director. If post-closure monitoring activities indicate that the site has stabilized and does not pose a threat to human health or the environment, Lehi City may petition the Director for a decrease in the length of the post-closure monitoring period.

Upon completion of post-closure monitoring activities as determined by the Director, Lehi City will submit to the Director a certification, signed by a city representative, which states why

post-closure activities are no longer necessary. Following final approval by the Director, post-closure monitoring activities will be discontinued.

RECORD MODIFICATIONS

Within 60 days after the completion of all closure activities, 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. The notation will serve to notify any potential purchaser of the property that the land has been used as a landfill, and that its use may be restricted by local land use or zoning regulations. Lehi City will notify the Director that the deed notation has been recorded.

POST-CLOSURE COST ESTIMATE

The following post closure cost estimate has been prepared utilizing current construction costs.

Table 2: Post care costs

COST ESTIMATE FOR 30 YEARS POST-CLOSURE CARE					
LEHI CLASS IV(B) LANDFILL					
ITEM	UNIT	\$/UNIT	FREQUENCY	#UNITS 30 YR TOTAL	COST
1 Site Inspection & Record Keeping	hr	\$115	semiannually	60	\$6,900
2 Correctional Plans & Specifications	hr	\$165	annually	30	\$4,950
3 Maintenance & Construction	hr	\$165	Seasonally & as Needed	90	\$14,850
Subtotal					\$26,700
10% Contingency					\$2,670
Inflation Rate of 1.2%					\$352.44
30 YEAR TOTAL					\$29,722.44