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February 14, 2013

Issa Hamud, Environmental Director
Environmental Division
Logan City Corporation
450 North 1000 West
Logan, Utah 84321-3740

RE: Logan City North Valley Class I Landfill Permit

Dear Mr. Hamud:

The 30-day public comment period for the Logan City North Valley Class I Landfill draft permit and permit application began September 21, 2012 and ended on October 22, 2012. The announcement of the public comment period was published in the *Herald Journal*, the *Salt Lake Tribune* and the *Deseret News* on September 21, 2012. Public comments on the permit application and draft permit, and a Response to Comments Document will be sent to you in a separate letter.

Enclosed is Permit 1201, which expires on February 14, 2023. A public notice of the permit issuance was published in the *Herald Journal*, *Salt Lake Tribune* and *Deseret News* on February 14, 2013.

Representatives of the Division of Solid and Hazardous Waste and the Bear River Health Department will conduct periodic inspections of the landfill to assess compliance with the Permit and the Solid Waste Permitting and Management Rules.

If you have any questions, please contact Doug Taylor at (801) 536-0240.

Sincerely,

Scott T. Anderson, Director
Division of Solid and Hazardous Waste

STA/DT/kk

Enclosure

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DSHW-2013-011302

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c: Lloyd C. Berentzen, MBA, Health Officer, Bear River Health Department
Grant Koford, EHS, Environmental Health Director, Bear River Health Department
Brett Mickelson, P.E., IGES

**UTAH SOLID AND HAZARDOUS WASTE CONTROL BOARD
SOLID WASTE PERMIT**

**North Valley
CLASS I 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.) 1953, as amended (the Act) and the *Utah Solid Waste Permitting and Management Rules*, Utah Administrative Code (Utah Admin. Code) R315-301 through 320 adopted thereunder, a Permit is issued to

Logan City
as owner and operator
(Permittee)

to own, construct, and operate the North Valley Class I Landfill located in northwest quarter and northern half of the northeast quarter of Section 35, Township 14. north, Range 2 west; also the eastern half of Section 34, Township 15 north, Range 2 west, Salt Lake Base and Meridian, Cache County, Utah as shown in the Permit Application that was determined complete on June 20, 2012.

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

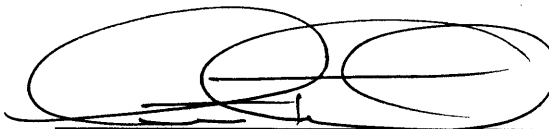
All references to Utah Admin. Code R315-301 through 320 are to regulations that are in effect on the date that this Permit becomes effective.

This Permit shall become effective February 14, 2013.

This Permit shall expire at midnight on February 14, 2023.

Closure Cost Revision Date: February 14, 2018.

Signed this 14th day of February, 2013



Scott T. Anderson, Director
Division of Solid and Hazardous Waste

FACILITY OWNER/OPERATOR INFORMATION

LANDFILL NAME: North Valley Class I Landfill
OWNER NAME: Logan City
OWNER ADDRESS: 290 North 100 West, Logan, Utah 84321
OWNER PHONE NO.: 435-716-9000
OPERATOR NAME: Logan City
OPERATOR ADDRESS: 290 North 100 West, Logan, Utah 84321
OPERATOR PHONE NO.: 435-716-9000
TYPE OF PERMIT: Class I Landfill
PERMIT NUMBER: 1201
LOCATION: Landfill site is located in Township 14 north, Range 2 west, Section 35; also Township 15 north, Range 2 west, Section 34, SLMB; Cache County, Lat. 41° 59' 24", Long. 112° 3' 7"
FACILITY ADDRESS: 14200 Stink Creek Road, North of Clarkston, Utah 84305

PERMIT REQUIREMENTS

Permit as used in this document is defined in Utah Admin. Code R315-301-2(55).

The application, #2012.00719, as deemed complete on the date shown on the signature page of this Permit, is hereby incorporated by reference into this Solid Waste Permit and shall be referred to as the "Permit Application" throughout this Permit. All representations made in the Permit Application are part of this Permit and are enforceable under Utah Admin. Code R315-301-5(2). The Permit Application shall become part of the operating record of the Landfill. Where differences in wording exist between this Permit and the application, the wording of this Permit supersedes that of the application.

This Permit consists of the signature page, Facility Owner/Operator Information section, sections I through V, and the Permit Application as defined above.

The facility as described in this Permit consists of scale house and maintenance building, disposal cells for all permitted waste, Class IV disposal cell (future), leachate collection pond, and a runoff detention pond.

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 facility operation.

The issuance of this Permit does not convey any property rights, other than the rights inherent in this Permit, in either real or personal property, or any exclusive privileges other than those inherent in this

Permit. 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 to own and operate, the Permittee is subject to the following conditions.

I. GENERAL COMPLIANCE RESPONSIBILITIES

A. General Operation

The Permittee shall operate the landfill in accordance with all applicable requirements of Utah Admin. Code R315-302 and 303, for a Class I Landfill, 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 123 and applicable portions of Utah Admin. Code R315-301 through 320 constitutes a violation of the Permit or applicable statute or rule and is grounds for appropriate enforcement action, permit revocation, modification, or denial of a permit renewal application.

B. Acceptable Waste

This Permit is for the disposal of non-hazardous solid waste that may include:

1. Municipal solid waste;
2. Commercial waste;
3. Industrial waste;
4. Construction/demolition waste;
5. Dead Animals;
6. Grease pit and animal waste by products;
7. Special waste as allowed by Utah Admin. Code R315-315 and authorized in section III-I of this Permit and limited by this section; and
8. Conditionally exempt small quantity generator hazardous waste as specified in Utah Admin. Code R315-303-4(7)(a)(i)(B) and PCB's as specified by Utah Admin. Code R315-315-7(2).
9. The Permittee is authorized to receive for disposal regulated asbestos-containing material in compliance with Utah Admin. Code R315-315-2.

C. Prohibited Waste

1. Hazardous waste as defined by Utah Admin. Code R315-1 and R315-2;
2. 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; or
3. PCB's as defined by Utah Admin. Code R315-301-2, except as allowed in Section IB (Acceptable Waste) of this Permit.

Any prohibited waste received and accepted for treatment, storage, or disposal at the facility shall constitute a violation of this Permit, of Utah Code Ann. §§ 19-6-101 through 123 and of Utah Admin. Code R315-301 through 320.

D. Inspections and Inspection Access

The Permittee shall allow an authorized representative of the Director of the Division of Solid and Hazardous Waste or an authorized representative from the local Health Department, to enter at reasonable times and:

1. Inspect the landfill or other premises, practices or operations regulated or required under the terms and conditions of this Permit or Utah Admin. Code R315-301 through 320;
2. Have access to and copy any records required to be kept under the terms and conditions of this Permit or Utah Admin. Code R315-301 through 320;
3. 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 Utah Admin. Code R315-301 through 320; and
4. Create a record of any inspection by photographic, videotape, electronic, or any other reasonable means.

E. Noncompliance

If monitoring, inspection, or testing indicates that any permit condition or any applicable rule under Utah Admin. Code R315-301 through 320 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.

In the event of any 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.

The Permittee shall:

1. document the noncompliance or violation in the operating record, on the day the event occurred or the day it was discovered;
2. notify the Director of the Utah Division of Solid and Hazardous Waste by telephone within 24 hours, or the next business day following documentation of the event; and
3. give written notice of the noncompliance or violation and measures taken to protect human health and the environment within seven days of Director notification.

Within thirty days of 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. Upon receipt and 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.

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 Utah Admin. Code R315-301 through 320 and this Permit.

F. Revocation

This Permit is subject to revocation if any condition of this Permit is not being met. The Permittee shall be notified in writing prior to any proposed revocation action and such action shall be subject to all applicable hearing procedures established under Utah Admin. Code R305-7 and the *Utah Administrative Procedures Act*.

As part of the revocation, the Director shall exercise the option to require payment of funds under the financial assurance mechanism held by the Director.

G. Attachment Incorporation

Attachments to the Permit Application 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

A. Design and Construction

The Permittee shall construct any landfill cell, sub-cell, run-on diversion system, runoff containment system, waste treatment facility, or final cover in accordance with the design submitted as part of the Permit Application and in accordance with the Utah Solid Waste Permitting and Management Rules (Utah Admin. Code R315-301 thru 320).

Prior to construction of any landfill cell, sub-cell, engineered control system, waste treatment facility, or final cover, the Permittee shall submit construction design drawings and a Construction Quality Control and Construction Quality Assurance (CQC/CQA) Plan to the Director for approval. Buildings do not require approval. The Permittee shall construct any landfill cell, sub-cell, cell liner, engineered control system, waste treatment facility, and the final cover in accordance with the design drawings and CQC/CQA Plans submitted to and approved by the Division Director.

Subsequent to construction, the Permittee shall notify the Director of completion of construction of any landfill cell, sub-cell, engineered control system, waste treatment facility, or final cover. Landfill cells may not be used for treatment or disposal of waste until all CQC/CQA documents and construction-related documents, including as-built drawings, are approved by the Director. The Permittee shall submit as-built drawings for each construction event that are stamped and approved by an engineer registered in the State of Utah.

The Permittee shall notify the Director of any proposed incremental closure, placement of any part of the final cover, or placement of the full final cover. Construction of any portion of the final cover shall be considered as a separate construction event and shall be approved separately from any other construction or expansion of the landfill. Design approval must be received from the Director prior to construction and shall be accompanied by a CQC/CQA Plan, for each construction season where incremental or final closure is performed.

A qualified party, independent of the owner, shall perform the quality assurance function on liner components, cover components, and other testing as required by the approved CQC/CQA Plan. The results shall be submitted as part of the as-built drawings to the Division Director.

All engineering drawings submitted to the Director shall be stamped and approved by a professional engineer with a current registration in Utah.

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.

B. Run-On Control

Drainage channels and diversions shall be constructed as specified in the Permit Application and maintained at all times to effectively prevent runoff from the surrounding area from entering the landfill.

C. Equivalent Design

The Permittee proposed a landfill liner design that uses a geosynthetic clay liner in place of the clay component of the liner required by Utah Admin. Code R315-303-3(3)(a)(ii). The proposed liner is approved.

III. LANDFILL OPERATION

A. Operations Plan

The Operations Plan included in the Permit Application shall be kept on site at the landfill or at the location designated in section III-K of this Permit. The landfill shall be operated in accordance with the operations plan. If necessary, the facility owner may modify the Operations Plan, provided that the modification meets all of the requirements of Utah Admin. Code R315-301 through 320, is as protective of human health and the environment as that approved in the Permit Application, and is approved by the Director as a minor modification under Utah Admin. Code R315-311-2(1)(a)(xiii). Any modification to the Operations Plan shall be noted in the operating record.

B. Security

The Permittee shall operate the Landfill so that unauthorized entry to the facility is restricted. All facility gates and other access routes shall be locked during the time the landfill is closed. At least one person employed by the Permittee shall be at the landfill during all hours that the landfill is open. Fencing and any other access controls as shown in the Permit Application shall be constructed to prevent access of persons or livestock by other routes.

C. Training

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

D. Burning of Waste

Intentional burning of solid waste is prohibited and is a violation of Utah Admin. Code R315-303-4(2)(b). All accidental fires shall be extinguished as soon as reasonably possible.

E. Daily Cover

The solid waste received at the landfill shall be completely covered at the end of each working day with a minimum of six inches of earthen material.

An alternative daily cover material may be used when the material and operation meets the requirements of Utah Admin. Code R315-303-4(4)(b) through (d) or when the alternative daily cover meets the requirement of Utah Admin. Code R315-303-4(4)(e).

F. Ground Water Monitoring

The Permittee shall monitor the ground water underlying the landfill in accordance with the Ground Water Monitoring Plan and the Ground Water Monitoring Quality Assurance/Quality Control Plan contained in the Permit Application. If necessary, the facility owner may modify the Ground Water Monitoring Plan and the Ground Water Monitoring Quality Assurance/Quality Control Plan, provided that the modification meets all of the requirements of Utah Admin. Code R315-301 through 320 and is as protective of human health and the environment as that approved in the Permit Application, and is approved by the Director as a minor modification under Utah Admin. Code R315-311-2(1)(a). Any modification to the Ground Water Monitoring Plan and the Ground Water Monitoring Quality Assurance/Quality Control Plan shall be noted in the operating record. A plan change that is found by the Director to be less protective of human health or the environment than the approved plan is a major modification and is subject to the requirements of Utah Admin. Code R315-311.

G. Gas Monitoring

The Permittee shall monitor explosive gases at the landfill in accordance with the Gas Monitoring Plan contained in the Permit Application and shall otherwise meet the requirements of Utah Admin. Code R315-303-3(5). If necessary, the Permittee may modify the Gas Monitoring Plan, provided that the modification meets all of the requirements of Utah Admin. Code R315-301 through 320 and is as protective of human health and the environment as that approved in the Permit Application, and is approved by the Director as a minor modification under Utah Admin. Code R315-311-2(1). Any modification to the Gas Monitoring Plan shall be noted in the operating record.

If the concentrations of explosive gases at any of the facility structures, at the property boundary, or beyond the property boundary ever exceed the standards set in Utah Admin. Code R315-303-2(2)(a), the Permittee shall:

1. immediately take all necessary steps to ensure protection of human health and notify the Director;
2. within seven days of detection, place in the operating record the explosive gas levels detected and a description of the immediate steps taken to protect human health;
3. implement a remediation plan that meets the requirements of Utah Administrative Code R315-303-3(5)(b); and
4. submit the plan to, and receive approval from, the Director prior to implementation.

H. Waste Inspections

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. A complete waste inspection shall be conducted at a minimum frequency of 1 % of incoming loads, but no less than one complete inspection per day. Loads to be inspected shall be selected on a random basis.

All loads suspected or known to have one or more containers capable of holding more than five gallons of liquid shall be inspected to ensure that each container is empty.

All loads that the operator suspects may contain a waste not allowed for disposal at the landfill shall be inspected.

Complete random inspections shall be conducted as follows:

1. The operator shall conduct the random waste inspection at the working face or an area designated by the operator.
2. Loads subjected to complete inspection shall be unloaded at the designated area;
3. Loads shall be spread by equipment or by hand tools;
4. A visual inspection of the waste shall be conducted by personnel trained in hazardous waste recognition and recognition of other unacceptable waste; and
5. The inspection shall be recorded on the waste inspection form in Section 3.3 of the Permit Application. The form shall be placed in the operating record at the end of the operating day.

I. Disposal of Special Wastes

If a load of incinerator ash is accepted for disposal, it shall transport so as to prevent leakage or the release of fugitive dust. The Permittee shall completely cover the ash with a minimum of six inches of material, or shall use other methods or material, if necessary, to control fugitive dust. The Permittee may use ash for daily cover when its use does not create a human health or environmental hazard.

Animal carcasses may be disposed in the landfill working face and shall be covered with other solid waste or earth by the end of the operating day in which they are received.

Asbestos waste shall be handled and disposed in accordance with Utah Admin. Code-315-315-2.

J. Self Inspections

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. These general inspections shall be completed no less than quarterly and shall cover the following areas: Waste placement, compaction, cover; cell liner; leachate collection system; fences and access controls; roads; run-on/run-off controls; ground water monitoring wells; final and intermediate cover; litter controls; and records. A record of the inspections shall be placed in the daily operating record on the day of the inspection. Areas needing correction, as noted on the inspection report, shall be corrected in a timely manner. The corrective actions shall be documented in the daily operating record.

K. Recordkeeping

The Permittee shall maintain and keep on file at the landfill office a daily operating record and other general records of landfill operation as required by Utah Admin. Code R315-302-2(3). The landfill operator, or other designated personnel, shall date and sign the daily operating record at the end of each operating day. Each record to be kept shall contain the signature of the appropriate operator or personnel and the date signed.

1. The daily operating record shall include the following items:
 - 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;
 - b. Major deviations from the approved plan of operation recorded at the end of the operating day the deviation occurred;
 - c. Results of other monitoring required by this Permit recorded in the operating record on the day of the event or the day the information is received;
 - d. Records of all inspections conducted by the Permittee, results of the inspections, and corrective actions taken shall be recorded in the record on the day of the event.
2. The general record of landfill operations shall include the following items:
 - a. A copy of this Permit, including the Permit Application;
 - b. Results of inspections conducted by representatives of the Director of the Division of Solid and Hazardous Waste, and of representatives of the local Health Department, when forwarded to the Permittee;
 - c. Closure and Post-closure care plans;
 - d. Records of employee training; and
 - e. Results of groundwater monitoring; and
 - f. Results of landfill gas monitoring.

L. Reporting

The Permittee shall prepare and submit to the Director an Annual Report as required by Utah Admin. Code R315-302-2(4). 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, a re-application for approval of the financial assurance mechanism, any leachate analysis results, all ground water monitoring results, the statistical analysis of