



State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

Alan Matheson
Executive Director

DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL

Ty L. Howard
Director

May 13, 2019

Bruce H. Allen, Plant Manger
United States Gypsum Company (USG)
78 North State Street
P. O. Box 570160
Sigurd, UT 84657

RE: USG Jumbo Class IIIb Landfill Permit

Dear Mr. Allen:

The 30-day public comment period for the USG Jumbo Class IIIb Landfill Permit ended on April 30, 2019. There were no public comments on the draft permit.

Enclosed is Permit 9418R2, which expires on May 15, 2029. Representatives of the Division of Waste Management and Radiation Control and the Central Utah Health Department will conduct periodic inspections of the landfill to assess compliance with the Permit and the Solid Waste Management Rules.

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

Sincerely,

Ty L. Howard, Director
Division of Waste Management and Radiation Control

TLH/DT/kl

Enclosures: USG Permit (DSHW-2019-000885)
USG Attachment #1 (DSHW-2019-00086)
USG Attachment #2 (DSHW-2019-00087)
USG Attachment #3 (DSHW-2019-00088)
USG Attachment #4 (DSHW-2019-00089)

c: Sue Hilderbrand, Health Officer, Central Utah Health Department
Nathan Selin, Environmental Director, Central Utah Health Department
John Chartier, P.E., DEQ District Engineer

DSHW-2019-004201

195 North 1950 West • Salt Lake City, UT
Mailing Address: P.O. Box 144880 • Salt Lake City, UT 84114-4880
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www.deq.utah.gov

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DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL
SOLID WASTE LANDFILL PERMIT

U. S. Gypsum Company Jumbo Class IIIb LANDFILL

Pursuant to *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:

U. S. Gypsum Company, as owner and operator, (Permittee)

to operate the Jumbo Class IIIb landfill located in Section 29, Township 22 south, Range 1 west, Salt Lake Base and Meridian, Sevier County, Utah.

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 May 10, 2019.

This Permit shall expire at midnight May 9, 2029.

Closure Cost Revision Date: May 10, 2024.

Signed this 13th day of May, 2019.



Ty L. Howard, Director

Utah Division of Waste Management and Radiation Control

FACILITY OWNER/OPERATOR INFORMATION

LANDFILL NAME: U.S. Gypsum Jumbo Class IIIb Landfill

OWNER NAME: U.S. Gypsum Company

OWNER ADDRESS: 81 North State Street
P.O. Box 570160
Sigurd, Utah 84657

OWNER PHONE NO.: 435-896-2431

OPERATOR NAME: U.S. Gypsum Company

OPERATOR ADDRESS: 81 North State Street
P.O. Box 570160
Sigurd, Utah 84657

OPERATOR PHONE NO.: 435-896-2431

TYPE OF PERMIT: Class IIIb Landfill

PERMIT NUMBER: 9418R2

LOCATION: Landfill site is located in Township 22 south, Range 1 west, Section 29, SLMB, Sevier County, Lat. 111° 55' 28", Long. 38° 51' 25"

PERMIT HISTORY: Permit signed May 13, 2019

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.

The Permit renewal application for the U. S. Gypsum Jumbo Landfill dated March 7, 2018 was deemed complete on July 26, 2018. All representations made in the attachments of this permit are enforceable under R315-301-5(2) of the Utah Administrative Code. Where differences in wording exist between this Permit and the attachments, the wording of this Permit supersedes that of the attachments.

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 and the permit application consists of 9.4 acres presently being used (phase 1) as landfill space. An additional 18.4 acres will eventually be used (phases 2, 3 and 4) as landfill disposal cell, for the disposal of waste gypsum produced by the U.S. Gypsum wallboard plant. The total acreage for which this permit applies is 27.8 acres.

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, 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 R315-304 of the Utah Administrative Code, that are in effect as of the date of this Permit unless otherwise noted in this Permit. Any permit noncompliance or noncompliance with any applicable portions of Utah Code Ann. § 19-6-101 through 126 and applicable portions of R315-301 through 320 of the Utah Administrative Code constitutes a violation of the Permit or applicable statute or rule and is grounds for appropriate enforcement action, permit revocation, modification, or denial of a permit renewal application.

I.B. Acceptable Waste

This permit is for disposal of nonhazardous industrial waste, as defined in R315-301-2(35) of the Utah Administrative Code, generated by U.S. Gypsum Company and as described in the permit application.

I.C. Prohibited Waste

- I.C.1. PCB's 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.2. Household waste;
- I.C.3. Municipal waste;
- I.C.4. Special waste except as specified in this Permit;
- I.C.5. Commercial waste; and
- I.C.6. 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.7. Hazardous waste as defined by R315-1 and R315-2 of the Utah Administrative Code, except waste specified by R315-303-4(7)(a)(i)(B) of the Utah Administrative Code;
- I.C.8. Regulated asbestos-containing material.
- I.C.9. Any prohibited waste received and accepted for disposal at the facility shall constitute a violation of this Permit, of Utah Code Ann. § 19-6-101 through 126 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 or an authorized representative, or representatives from the Central Utah Health Department, to enter at reasonable times and:
 - I.D.1.a Inspect the landfill or other premises, practices or operations regulated or required under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;
 - I.D.1.a.(i) 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.a.(ii) 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.a.(iii) 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, on 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. 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.
- 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 is subject to revocation 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 action 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 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

II.A. Design and Construction

- II.A.1. The landfill shall be constructed according to the design and in the area designated in Attachment 1, including landfill cells, fences, gates, and berms prior to acceptance of waste.
- 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 and this permit modified.
- 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 and modification of this permit.
- II.A.4. If ground water is encountered during excavation of the landfill, the Director shall be notified immediately, and an alternative construction design developed and submitted for approval.
- II.A.5. Run-On Control
- II.A.6. The Permittee shall construct drainage channels and diversions as specified in 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 2 on site at the landfill or at the location designated in section III-H of this Permit. The Permittee shall operate the landfill in accordance with the operations plan. If necessary, the Permittee may modify the Operations Plan, provided that the modification meets all of the requirements of R315-301 through 320 of the Utah Administrative Code, is as protective of human health and the environment as the Operations Plan approved as part of this Permit, and is approved by the Director as a permit modification under R315-311-2(1) of the Utah Administrative Code. The Permittee shall note any modification to the Operations Plan in the daily operating record.

III.B. Security

- III.B.1. The Permittee shall operate the Landfill so that unauthorized entry to the facility is restricted. The Permittee shall:
 - III.B.1.a Lock all facility gates and other access routes during the time the landfill is closed.
 - III.B.1.b Have at least one person employed by the Permittee at the landfill during all hours that the landfill is open.
 - III.B.1.c Construct all fencing and any other access controls 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. Intentional burning of solid waste is prohibited and is a violation of R315-303-4(2)(b) of the Utah Administrative Code.

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

III.D.3. 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. The Permittee shall cover wastes that are capable of attracting or providing food for vectors, materials that may become windblown litter or fine materials that may become fugitive dust with a minimum of six inches of earth at the end of the working day in which the wastes are received. 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.2. 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.3. 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.E.4. Waste Inspections

III.E.5. 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.E.6. 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.E.7. The Permittee shall inspect all loads that the Permittee suspects may contain a waste not allowed for disposal at the landfill.

III.E.8. The Permittee shall conduct complete random inspections as follows:

III.E.8.a The Permittee shall conduct the random waste inspection at the working face or an area designated by the Permittee.

III.E.8.b The Permittee shall direct that loads subjected to complete inspection be unloaded at the designated area;

III.E.8.c Loads shall be spread by equipment or by hand tools;

III.E.8.d Personnel trained in hazardous waste recognition and recognition of other unacceptable waste shall conduct a visual inspection of the waste; and

III.E.8.e The personnel conducting the inspection shall record the results of the inspection on a waste inspection form as found in Attachment 3. The Permittee shall place the form in the daily operating record at the end of the operating day.

III.E.8.f The Permittee or the waste transporter shall properly dispose of any waste found that is not acceptable at the facility at an approved disposal site for the waste type and handle the waste according to the rules covering the waste type.

III.F. Self-Inspections

III.F.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, cover; fences and access controls; roads; run-on/run-off controls; litter controls; and records. The Permittee shall place a record of 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.G. Recordkeeping

III.G.1. The Permittee shall maintain and keep on file at the U. S. Gypsum Production Plant, 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. Each record to be kept shall contain the signature of the appropriate operator or personnel and the date signed. The Daily operating record shall consist of the following two types of documents:

III.G.1.a Records related to the daily landfill operation or periodic events including:

III.G.1.a.(i) 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.G.1.a.(ii) Major deviations from the approved plan of operation recorded at the end of the operating day the deviation occurred;
- III.G.1.a.(iii) 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.G.1.a.(iv) 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.

III.G.1.b Records of a general nature including:

- III.G.1.b.(i) A copy of this Permit, including all attachments;
- III.G.1.b.(ii) Results of inspections conducted by representatives of the Director of the Division of Waste Management and Radiation Control, and of representatives of the local Health Department, when forwarded to the Permittee;
- III.G.1.b.(iii) Closure and Post-closure care plans; and
- III.G.1.b.(iv) Records of employee training.

III.H. Reporting

- III.H.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.I. Roads

- III.I.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 shall be improved and maintained as necessary to assure safe and reliable all-weather access to the disposal area.

III.I.2. CLOSURE REQUIREMENTS

III.J. Closure

- III.J.1. Final cover of the landfill shall be as shown in Attachment 4. The final cover shall meet, at a minimum, the standard design for closure as specified in R315-305-5(5)(b) of the Utah Administrative Code.

III.K. Title Recording

- III.K.1. The Permittee shall meet the requirements of R315-302-2(6) of the Utah Administrative Code by recording a notice with the Sevier 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 as recorded.

III.L. Post-Closure Care

III.L.1. The Permittee shall perform post-closure care at the closed landfill in accordance with the Post-Closure Care Plan contained in the Permit Application. 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.

III.M. Financial Assurance

III.M.1. The Permittee shall keep in effect and active the currently approved financial assurance mechanism or another approved mechanism that meets the requirements of R315-309 of the Utah Administrative Code and is approved by the Director to cover the costs of closure and post-closure care at the landfill. The Permittee shall adequately fund and maintain the financial assurance mechanism(s) to provide for the cost of closure at any stage or phase or anytime during the life of the landfill or the permit life, whichever is shorter, and the Permittee shall fully fund the trust fund within ten years of the date waste is first received at the landfill.

III.M.2. The Permittee shall submit an annual revision of closure and post-closure costs for inflation and financial assurance funding as required by R315-309-2(2) of the Utah Administrative Code, to the Director as part of the annual report. The Permittee shall submit the information as required in R315-309-9 of the Utah Administrative Code and shall meet the qualifications for the "Corporate Financial Test" or "Corporate Guarantee" each year.

III.N. Closure Cost and Post-Closure Cost Revision

III.N.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.

IV. ADMINISTRATIVE REQUIREMENTS

IV.A. Permit Modification

IV.A.1. Modifications to this Permit may be made upon application by the Permittee or by the Director following the procedures specified in R315-310-11-2 of the Utah Administrative Code. The Permittee shall be given written notice of any permit modification initiated by the Director.

IV.A.2. Permit Transfer

IV.A.2.a This Permit may be transferred to a new permittee or new permittees by complying with the permit transfer provisions specified in R315-310-11 of the Utah Administrative Code.

IV.B. Expansion

- IV.B.1. This Permit is for the operation of a Class IIIb Landfill according to the design and Operation Plan described in Attachment 1. Any expansion of the current footprint designated in the description contained in Attachment 1, but within the property boundaries shall require submittal of plans and specifications to the Director. The plans and specifications shall be approved by the Director prior to construction.
- IV.B.2. Any expansion of the landfill facility beyond the property boundaries designated in the description contained in Attachment 1 shall require submittal of a new Permit Application in accordance with the requirements of R315-310 of the Utah Administrative Code.
- IV.B.3. Any addition to the list of acceptable waste in Section I-B shall require submittal of all necessary information to the Director and the approval of the Director.

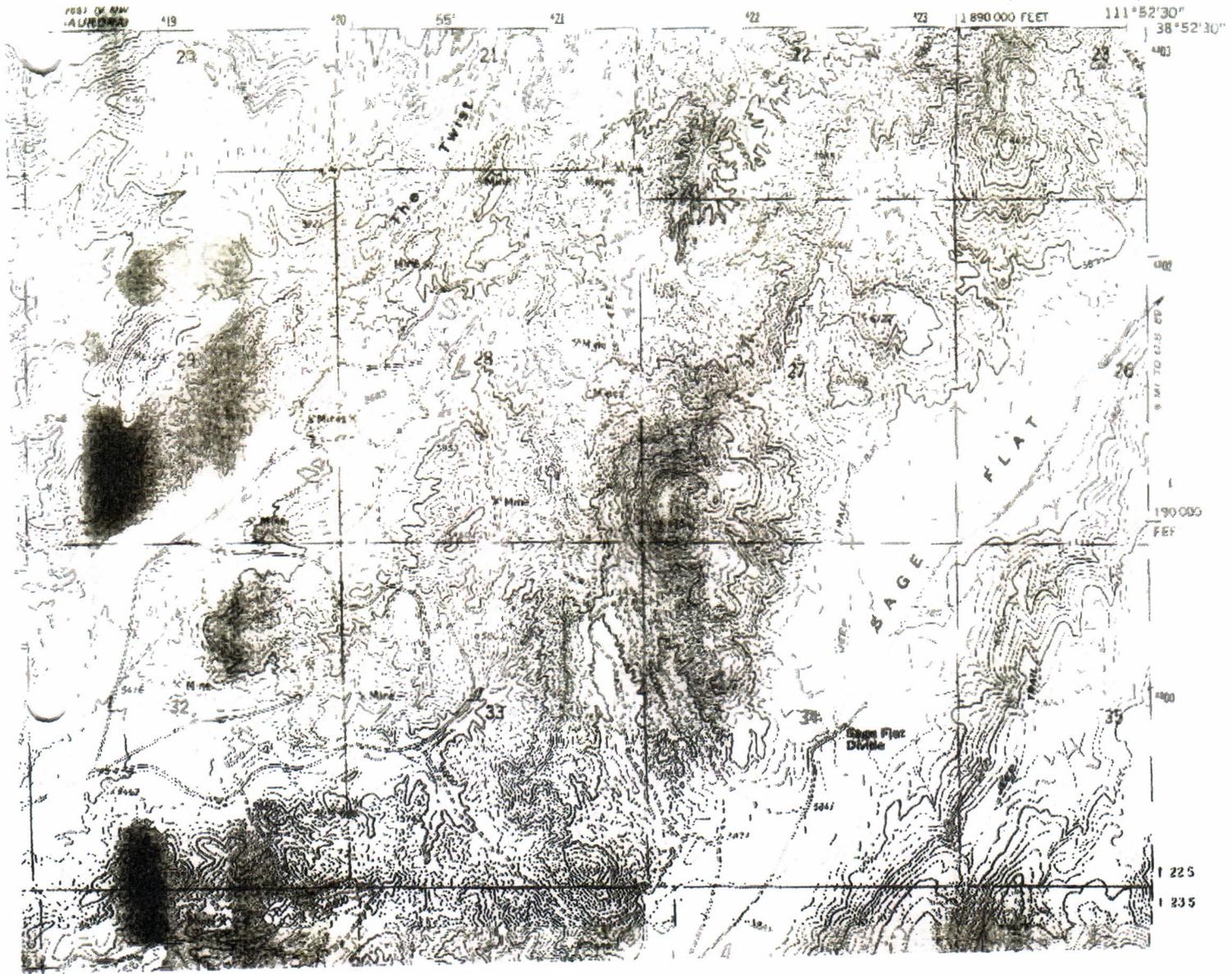
IV.C. Expiration

- IV.C.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 timely submits a 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.

Attachment 1
Landfill Design

SIGURD QUADRANGLE
UTAH-SEVIER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

NOV 11 1954
GALIND



27

Phase 1
9.36 acres

Phase 2
6.28 acres

Phase 3
5.22 acres

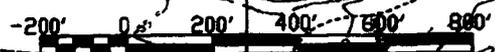
Phase 4
6.91 acres



JUMBO LANDFILL

Lat. 111°55'28"

Long. 38°51'25"



Drawing revised by Josh Reese 9/2007

D E E D

JUMBO PLASTER & CEMENT COMPANY, a Utah corporation, with its principal office at Richfield, Utah, GRANTOR, hereby grants, bargains, sells, remises, releases and forever quit-claims to UNITED STATES GYPSUM COMPANY, an Illinois corporation, with its principal office at Chicago, Illinois, GRANTEE, for the sum of Ten (\$10.00) Dollars and other valuable consideration, the receipt of which is acknowledged by the Grantor, all of the right, title and interest of the Grantor in and to the following described placer mining claims situate in Township 22 South, Range 1 West, Salt Lake Base and Meridian in an unorganized mining district, Sevier County, State of Utah, and all of the right, title and interest of the Grantor in and to the property covered thereby whether by virtue of the said placer mining locations or any other placer mining locations or otherwise:

- P Jumbo Gypsum No. 22 placer mining claim embracing the SW $\frac{1}{4}$ of Section 28;
- P Jumbo Gypsum No. 23 placer mining claim embracing the NW $\frac{1}{4}$ of Section 33;
- P Jumbo Gypsum No. 24 placer mining claim embracing the NE $\frac{1}{4}$ of Section 32;
- P Jumbo Gypsum No. 25 placer mining claim embracing the SE $\frac{1}{4}$ of Section 32;
- P Jumbo Gypsum No. 26 placer mining claim embracing the SW $\frac{1}{4}$ of Section 33;
- P Jumbo Gypsum No. 27 placer mining claim embracing the SE $\frac{1}{4}$ Section 29;
- P Jumbo No. 33 placer mining claim embracing the E $\frac{1}{2}$ of NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 32;
- P Jumbo No. 34 placer mining claim embracing the E $\frac{1}{2}$ of SE $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 32.

Together with all minerals therein and all privileges and franchises and appurtenances thereto incident or belonging or therewith used and enjoyed, and all the estate, right, title, interest, property, claim and demand whatsoever, legal and equitable, as well in possession as in expectancy of the Grantor in or to said premises and every part thereof.

WITNESS the hand of said Grantor this 17th day of December, 1936.

JUMBO PLASTER & CEMENT COMPANY

By W. J. Hayes
President
By Carroll Hayes
Secretary



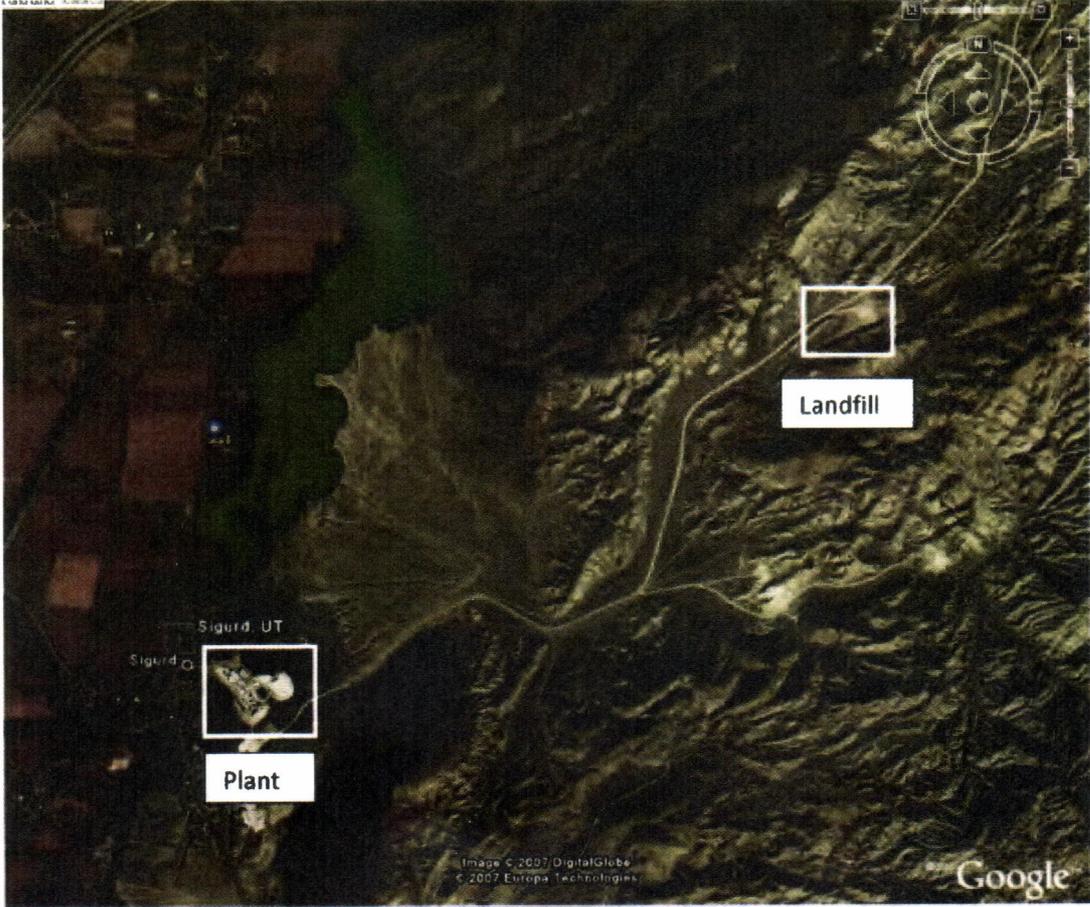
STATE OF UTAH)
) 88
COUNTY OF SEVIER)

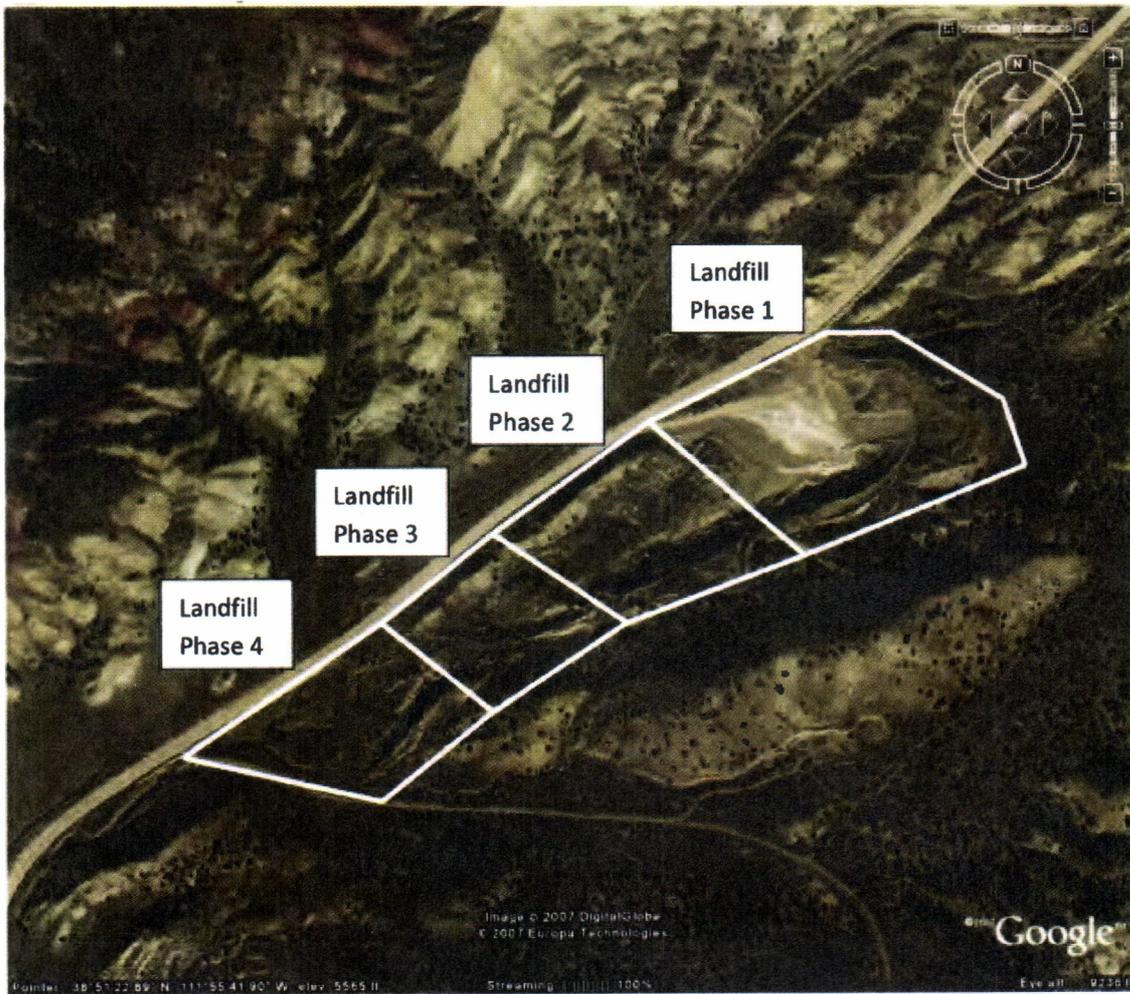
On the 17th day of December , A. D. 1936, personally appeared before me W. P. Payne and Carroll Payne, known to me to be the President and Secretary respectively, of the Jumbo Plaster & Cement Company, the signers of the above instrument, who duly acknowledged to me that they executed the same, for and in behalf of said Jumbo Plaster & Cement Company, by due and legal authority vested in them as President and Secretary thereof.

Donnelly Baker
Notary Public, residing at
Richfield, Utah.

My commission expires:

April 16, 1937.





Attachment 2

Operations Plan

II. Plan of Operation

- a. An intended schedule of construction
- b. A description of on-site waste handling procedures and example of the form used to record weights or volumes of waste received
- c. A schedule for conducting inspections and monitoring and examples of the forms used to record the results of the inspection and monitoring.

a.b.c.

United States Gypsum Company's, Jumbo Solid Waste landfill, Phase 1, has an estimated remaining capacity of 354,041 cubic yards, or 174,698 tons (Based on Landfill Annual Report for Calendar Year 2017. Remaining capacity could be larger than what has been estimated, which could extend the life of the cell. The Phase 2 landfill has an estimated capacity of 211,511 cubic yards or 104,368 tons based on Phase 1's acreage-volume percentage. The Phase 3 landfill has an estimated capacity of 175,811 cubic yards or 86,752 tons. The phase 4 landfill has an estimated capacity of 232,730 cubic yards or 114,838 tons.

Handling Procedures: The gypsum waste, deemed a non-hazardous waste by the Department of Environmental Quality, is hauled to the Jumbo solid waste landfill in the following manner: The waste material is deposited in a waste bunker at the front of the plant. A front-end loader operator will inspect the bunker to make sure everything is the proper material and then load the material into a haul truck. The loads are then trimmed to minimize any littering along the quarry haul road. The quarry haul trucks haul from the plant to the landfill site. The haul trucks then enter the landfill and dump from West to East; the operator logs the amount hauled to the dump. Once a layer is full, a bulldozer will work the whole site over to break everything up and smooth it over. This prepares the dump for the new layer and should eliminate any major voids in the dump. A thin layer of shale is placed over the dump at this same time.

Daily waste tonnages are recorded and filed in the Quarry Office (See Appendix F). Daily inspections of the landfill are conducted by authorized personnel and documented (See Appendix G). Due to on-going mining operations in the near vicinity, the following equipment will be available for excavation, compaction, spreading, and other related activities:

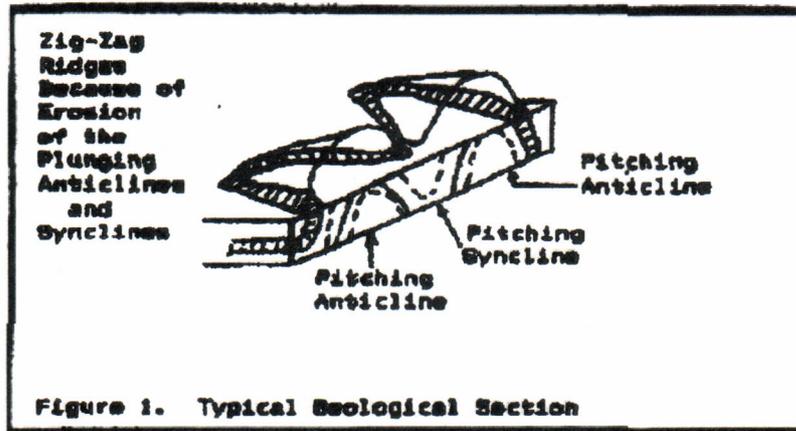
- Two Front-end loaders
- Three Full Time Haul trucks (40 & 35 tons)
- Two Bulldozers with rippers
- Road Grader
- Backhoe

No zoning exists at the site. The general surrounding area is controlled by the Bureau of Land Management as a multiple use area.

Approximately 275 tons of total waste, per week is dumped at the site.

Gypsum panel Products containing the following ingredients (See enclosed SDS):

- d. Contingency plans in the event of a fire or explosion
Due to the Fire Resistant Nature of Wallboard, there is a minimal and/or no chance for any of the waste material to self-combust or to even catch fire with a significant ignition source. Therefore, no contingency plans for fire or explosion are needed.
- e. Corrective action programs to be initiated if ground water is contaminated
A vertical anhydrite zone crosses Northeast-Southwest through the pit area and is sandwiched on either side by a massive impervious shale formation. Mineral exploration and mining in this area indicates a series of anticlines and synclines cut off by natural erosion. Therefore, the continuity of gypsum bed was terminated down dip from the pit area. (see figure 1).



A Class IIIb landfill is exempt from the normal water monitoring requirements of Rule 315-308, system (R315-304-5,4c))

- f. Contingency plans for other releases, e.g. explosive gases or failure of run-off collection system (R315-302-2(2)(f)):

Due to the nature of Wallboard, there is no chance for any of the waste material to self-combust or to decompose into explosive gases. Therefore, no contingency plans for fire or explosion are needed. With regard to the possibility of a failure of run-off collection or diversion, the Landfill is located in a bowl and designed in such a manner that run-off will not wash out material nor will it wash out the final closure cap.



Heavy run-off would only settle in the bowl and would be quickly absorbed into the material. If ever needed, the following equipment would be available to building any berms, dig any trenches, and other activities related to controlling run-off:

- Two Front-end loaders
- Three Full Time Haul trucks (40 & 35 tons)
- Two Bulldozers with rippers
- Road Grader
- Backhoe

III. Technical Report

a. Maps

- i. Topographical map drawn to the required scale and contours showing the boundaries of the landfill unit; design and location of the run-on/run-off control structures; (R315-310-4(2)(a)(i)(See **Appendix B,C,D,E**).
- ii. Most recent U.S. Geological Survey topographic map, 7-1/2 minute series, showing the waste facility boundary; the property boundary; surface drainage channels; existing utilities and structures within one-fourth mile of the site; and the direction of the prevailing winds (R315-310-4(2)(a)(ii)(See **Appendix B,C,D,E**).

IV. Engineering Report-Plans, Specifications, And Calculations

- a. Cell design, cover design, fill methods, elevation of final over including plans and drawings R(315-310-3(1)(b)

During the mining operation at the N-1 Pit, shale was stripped from the sides of the exposed gypsum bed along the ridge. This material will be utilized as cover for operational purpose. After the N-1 Pit has been filled to capacity, decomposed shale, gypsite, and available topsoil will be utilized for the required two feet of cover. The entire disturbed area will be re-contoured and all necessary drainage will be re-established. To encourage plant growth, native species of big sagebrush, shadscale, rabbit brush, four wing salt brush, and Indian rice grass will be planted along with 200lb/acre of fertilizer in order to provide the necessary nutrients. After the area is contoured, seed is spread by hand, and the ripper of the Bulldozer is used to till in the seed.

- b. Design and location of run-on and run-off control systems (R315-310-5(2)(b)

The design and location of the landfill is such that run-on and run-off will not be a problem. Berms will be formed around the landfill phases 2, 3, 4 before any fillings take place.



Attachment 3

Inspection Checklist

Daily Quarry Inspection

Week of:	Monday	Tuesday	Wednesday	Thursday	Friday
PII NAME:					
Ground Control Inspection: Corrections:					
Explosives Magazine Inspection: Blasting tools inspected prior to blasts Blasts examined after blasts Corrections:					
Blasted Muck Pile Inspections: Corrections:					
Drill Area Inspection: Corrections:					
Fuel Tanks and Oil Cans Clearly Marked Corrections:					
HAULAGE INSPECTION:					
Operating Speeds normal 0 - 35					
Trimming Loads					
Berms					
Dust Control:					
Equipment Parking/Park Ditches:					
Housekeeping					
DIESEL PUMP STATION					
Housekeeping					
Any spills?					
Fire Extinguisher					
ROCK SHED					
Housekeeping					
LANDFILL INSPECTION:					
Gate secured during off hours?					
Road in good Condition?					
Fugitive Dust Concerns?					
Any improper materials?					
Anyone trespassing?					
Hazards in dump?					
Run-off Concerns?					
Waste being hauled in landfill?					
Landfill need to be covered?					
AED INSPECTION:					
Is status indicator working?					

SIGNATURES:

QUARRY SUPERVISOR: _____

QUARRY ENGINEER: _____

QUARRY MANAGER: _____

COMMENTS:

*Paper and 21 Waste must be covered with a minimum of 6" once per month.
Off-spec gypsum material that may become fugitive dust must be covered with a minimum of 6" once per day.

Attachment 4
Closure and Post-Closure Plan

V. Closure Plan

a. Closure schedule (R315-3104(2)(d)(i))

Using the current rate of fill, Jumbo Solid Waste Phase 1 landfill has the ability stay in working condition until the year 2046. Remaining capacity could be larger than what has been estimated, which could extend the life of the cell. United States Gypsum Company will utilize equipment and manpower from the active mining operation to complete all reclamation required.

b. Design a final cover (R315-310-4(2)(c)(iii))

There will be 1.5 feet of "cap", 6 inches of which will be typical indigenous topsoil (shale/clay/other local materials). The Code of Solid Waste Disposal Regulations adopted by Utah Solid and hazardous Waste Committee will be followed in regards to their requirement and all other Class III landfill regulations. Due to ongoing mining operations in the near vicinity the following equipment will be available for excavation, compaction, spreading, and other related activities.

Two Front-end loaders

Three Full Time Haul trucks (40 & 35 tons)

Two Bulldozers with rippers

Road Grader

Backhoe

c. Capacity of site in volume and tonnage (R315-310-4(2)(d)(ii))

United States Gypsum Company's, Jumbo Solid Waste landfill, Phase 1, has a total remaining capacity of 354,041 cubic yards, or 174,698 tons (Based on Landfill Report for 2018). The Phase 2 landfill has an estimated capacity of 211,511 cubic yards or 104,368 tons based on Phase 1's acreage-volume percentage. The Phase 3 landfill has an estimated capacity of 175,811 cubic yards or 86,752 tons. The phase 4 landfill has an estimated capacity of 232,730 cubic yards or 114,838 tons.

d. Final inspection by regulatory agencies (R315-310-4(2)(c)(iii))

Final inspection will be performed by the appropriate regulatory agencies.

VI. Post-Closure Plan (R315-310-3(1)(h))

a. Site Monitoring, if required (R315-310-4(2)(e)(i))

A Class IIIb landfill is exempt from the ground water monitoring requirements of Rule R315-308, as per Solid Waste Permitting and Management Rules R315-304-5-4(c)

b. Changes to record of title, land use, and zoning restrictions (R315-3104(2)(e)(ii))

No zoning exists on the site. The general surrounding area is controlled by the Bureau of Land Management as a multiple use area. The County Recorder's Office will be notified in writing of any changes or when the landfill is closed so they can make note of it.

c. Maintenance activities to maintain cover and run-off/run-on control systems (R315-310-4(2)(d)(iii))

Existing Design and location should prevent run-on and run-off and keep the final cover from eroding. The Plant will continue to maintain as needed.

d. 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)(v))

Ernest Gibbs –Environmental Coordinator
78 North State St. Sigurd Utah, 84657
(office) 435-896-2420
(fax) 435-896-2407

Alternative Plant Contact-Plant Manager
78 North State St. Sigurd Utah, 84657
(Office) 435-896-2401
(fax) 435-896-2407

- I. Financial Assurance (R315-310-3(1)(j))
 - a. Identification of closure costs including cost calculations (R315-310-4(2)(d)(iv))

Closure costs and calculations for the Phase I landfill are included in Appendix T. As of March 2018, the closure cost of Phase I is \$140,090.
 - b. Identification of post-closure care costs including cost calculations (R315-310-4(2)(e)(iv))

As of March 2018, the post-closure care cost of Phase I is \$205,270 (**Appendix Z**). Once the closure of the site is done, there should be no further work required and there is no hazardous material or gases that would require any monitoring. The design and location are sufficient that there should be no problems of run-on or run-off that would require additional work or costs. However, the post closure costs have been estimated to include an annual inspection for 30 years and assuming a worst case scenario of extreme flooding every 10 years that would require some repair work.
 - c. Identification of the financial assurance mechanism that meets the requirements of Rule R315-309 and the date the mechanism will become effective (R315-309-1(1))

A letter of credit will be issued as financial assurance per requirements above and will be effective on the date indicated on the letter of credit. (**See Appendix AA**)
And/or the letter of credit will be changed/converted to a surety bond.
- II. Special Requirements for a Class IIIa Landfill (R315-304-5(7)(b))
 - a. A geohydrological assessment of the site
 - b. An engineering report, plans, specifications, and calculations
 - c. A ground water monitoring plan
 - d. A closure plan that meets requirements

This is an application for a Class IIIb Landfill and does not need to meet requirements a through d.