I.d Operations Plan

On October 9, 1991, the U.S. Environmental Protection Agency (EPA) announced revisions to the Criteria for Classification of Solid Waste Disposal Facilities. These revisions were developed in response to Subtitle D of the 1984 Hazardous Waste Amendments to the Resource Conservation and Recovery Act (RCRA). The Subtitle D regulations set forth revised minimum federal criteria for Municipal Solid Waste Landfills (MSWLFs), including facility design and operating criteria. The Subtitle D regulations set forth differing requirements for existing and new units (e.g., existing units are not required to remove wastes to install liners).

Subtitle D established a framework for federal, state, and local government cooperation in controlling the management of non-hazardous solid waste. The federal role in this arrangement is to establish the regulatory direction by providing minimum nationwide standards for protection of human health and the environment and by providing technical assistance to States for planning and developing their own environmentally sound waste management practices. However, the actual planning, direct implementation, and enforcement of solid waste programs under Subtitle D remains largely a state and local function.

On November 5, 1995, the State of Utah Department of Environmental Quality (UDEQ) issued final Administrative Rules entitled Solid Waste Permitting and Management Rules (R315-301 through 320) implementing Subtitle D at the state level. UDEQ has received authorization from EPA to implement and enforce the solid waste program.

Payson City has prepared this Landfill Operations Plan to guide the daily operations at the Payson City Landfill. This document provides substantial discussion of operations at the landfill based on the operating criteria outlined in 40 CFR 258, Subpart C, and State of Utah Administrative Rules R315-301 through 310.

Portions of this Operations Plan are subdivided into separate discussions of the Class V and Class VI landfill cells. Since the unlined landfill accepted waste after October 9, 1993, its closure and post-closure care must follow more stringent state and federal regulations than those facilities which were closed prior to October 9, 1993. Where separate discussions are made, the regulations differ regarding the required design, operation, or closure between the Class V and Class VI facilities.

I.d.1 Onsite Waste Handling

Class V and Class VI

The Landfill utilizes an area fill method for both waste streams, with waste being deposited at the base of the lift and then pushed and compacted mechanically up the face of the lift. The deposited waste is then covered with at least six inches of soil or alternative daily cover taken from the area on the up-hill side of the working face. This procedure is repeated until the level of the lift reaches 10 to 12 feet. A new lift is then started and then repeated until the lift is full. Further discussion and drawings on the landfill plan are included in the technical data section of this application.

A waste control program designed to detect and deter attempts to dispose of hazardous and other unacceptable wastes is currently implemented at the Payson City Landfill. The program is intended to protect the health and safety of employees, customers, and the general public, as well as to protect against environmental contamination.

The Payson city Landfill is typically open to the general public and commercial haulers for solid waste disposal Monday through Saturday 8:00 a.m. to 5:00 p.m. while during the summer (April 1st through September 30) Saturday hours are 8 a.m. to 7 p.m. During special events (flooding, windstorms, etc.) the landfill can alter hours under the consent of management. Payson City controls public access to the landfill in order to prevent illegal dumping of wastes, public exposure to hazards, scavenging, and unauthorized traffic. Access control is a key element in the prevention of unauthorized scavenging that can lead to injury. Fences, locked gates, and natural barriers provide the basis of the site's access control system. During operating hours, landfill personnel monitor and control all access points to the facility with at least two people on-site, one of which is at the active face.

The Payson City Landfill is open for public and private disposal. Signs posted near the landfill entrance clearly indicate (1) name of facility; (2) hours of operation, (3) unacceptable waste; and (4) emergency contact number.

All vehicles delivering wastes to the site must stop at the scale house. Commercial waste haulers are required to comply with the rules established by Payson City and can be banned from the Facility for noncompliance. When a loaded vehicle arrives, scale house personnel will obtain a weight and inquire as to the origins of the waste and the contents of the incoming load. Any vehicle suspected of carrying unacceptable materials (liquid waste, sludges, or hazardous waste) will be prevented from entering the disposal site unless the driver can provide evidence that the waste is acceptable for disposal at the site. Payson City reserves the right to refuse service to any suspect load. Vehicles carrying unacceptable materials will be required to exit the site without discharging their loads. If a load is suspected of containing unacceptable materials, the following information will be recorded: date, time, name of the hauler, license plate, and source of waste. The scale house will then notify the tipping area attendants by radio that a load is suspect, and that load will then be further inspected at the landfill tipping area before final disposal is allowed.

After a vehicle leaves the scale house, the vehicle will be routed to the appropriate discharge location by site personnel. Loads will be regularly surveyed at the tipping area. If a discharged load contains inappropriate or unacceptable material. The discharger will be required to reload the material and remove it from the landfill site. An example of the form that is used to record weights or volumes of waste received is included in Appendix E.

I.d.2 Inspection Schedule

Class V and Class VI

Groundwater…… Quarterly

Surface Water Drainage Systems …….Quarterly

Examples of the forms that will be used to record the results of the inspections and monitoring are found in Appendix E The inspections are discussed in greater detail as follows.

I.d.2.A Groundwater

Class V

Payson City Landfill will continue to monitor groundwater in conformance with Ground Water Quality Standards of the DWMRC, Administrative Rules, Section R315-308. Groundwater sampling, analysis and statistical evaluation are done in strict accordance with the approved groundwater monitoring plan. Currently, the groundwater monitor well network is sampled on a quarterly basis.

A total of six (6) groundwater monitoring wells have been installed. Water levels in the wells indicate that the underground water gradient is very flat. Ground water elevation data has been interpreted to indicate a condition of radial flow beneath the landfill. Sampling is performed in accordance with the *Payson City Landfill Ground Water Monitoring Plan* (URS, 2003) and the Utah Solid and Hazardous Waste Permitting and Management Rule under Utah Administrative Code (UAC) R315-308 (see Appendix N for a copy of Ground Water Monitoring Plan).

Groundwater samples are taken quarterly, as described in the above-mentioned plan, and analyzed for constituents specified in UAC aR315-308-2(12)(d)

I.d.2.B Surface Water

Class V

Drawings in Appendix F illustrate the location of the surface water drainage control system designed to incorporate both existing topographical features as well as changes to the overall site layout. A copy of the Storm Water Pollutions Prevention Plan is attached in Appendix G. Payson City staff will inspect the drainage system no less than quarterly. Payson City or a licensed general contractor will repair drainage facilities as required.

Work has been completed to ensure that adequate run-off collection and storage systems have been installed and maintained at the landfill. The existing collection ditches and storage basin were oversized and constructed in ensure capacity. The run-off system is inspected after each major storm and maintenance of the system is completed at that time if required.

The potential run-on from the west is currently diverted by roadside drainage ditches along a private road on the west side of the property. These triangular shaped drainage ditches average about 6 feet wide and 3 feet deep. The capacities of the roadside ditches are 39 cfs each. At the design runoff, the velocity would be about 4 fps (See Appendices F & G for the Details and Calculations). The ditcbhes are more than adequately sized to handle the runoff flows and are constructed using graded silt-to-cobble soils, which have a recommended 5-fps maximum velocity to prevent scour. Therefore, additional erosion control measures will not be necessary.

The calculated peak runoff from the largest 2-acre landfill slopes is 1.3 cfs for the 24-hour 25-year event. However, per Payson City ordinance, all stormwater infrastructure has been constructed for a 24-hour 100-year event. The capacity of the runoff ditches is 4.2 cfs each (See Appendices F & G for Details and Calculations). At the design runoff, the velocity would be

about 3.3 fps. The ditches are more than adequately sized to handle the runoff flows. The ditches will be constructed in a similar manner to that of the existing ditches at the site.

The runoff control ditches on the perimeter of the landfill will serve the dual functions as runoff control and firebreaks. In areas where the slope is great enough to cause scour concerns, the ditches will be constructed with a terracing effect and riprap placed to create rock dams at selected intervals that will reduce the velocity of the runoff water and any potential for scour. On the interior of the landfill, the ditches will be constructed to prevent scour as discussed above.

I.d.2.C Leachate Collection

Class V

The landfill is currently not required to have a leachate collection system. As new lined cells become necessary and are constructed, a leachate collection system will be incorporated into the design.

I.d.2.D Landfill Gas

Class V

Explosive Landfill Gas Monitoring Plan (Plan) for the Payson City Landfill is attached in Appendix H The landfill gas collection system will be inspected no less than quarterly according to those specifications and parameters listed in Utah Administrative Rules R315-303-3(5) and will continue throughout operations and the post-closure maintenance period. 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 R315-303-2(2)a of the Utah Administrative Code, Payson will

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

I.d.2.E Inspection Documentation

Class V and Class VI

The results of all routine inspections of site facilities will be recorded on inspection forms. The inspection forms will be submitted to the Landfill Manager for inclusion in the landfill operating records as required in Section R315-302-2(5) of the Utah Administrative Rules. Examples of forms utilized in the documentation of the landfill operations are included in Appendices D & E. Payson City Landfill will maintain and keep, on-site the following permanent records:

1. A daily operating record, that includes: the weights and type of received, the number of vehicles.
2. Any deviations from the approved plan of operation.
3. Training and notification procedures.
4. The results of ground water, leachate, gas, and other environmental monitoring.
5. All inspection logs.

I.d.3 Contingency Plans

Class V and Class VI

Contingency operations will be implemented should specific or unusual situations occur. The following subsections discuss such contingencies as fire, explosion, release of explosive gases, and failure of run-off containment. The Landfill Manager has a cellular phone and radio which serve as the on-site mobile communications system for use in an emergency to communicate with the management offices and off-site personnel. Additional available communication is the telephone located in the scale house, which will serve as the back-up communication system.

Emergency Action Plan

Payson City will follow the procedures in the Emergency Action Plan Attached in Appendix I. The following procedures will be initiated when conditions become evident or as notification is received.

a. Fire.
b. Explosion.
c. Trauma/Medical Emergency.
d. Hazardous Material Release.
e. Earthquake.
f. Severe Weather.
g. Violent or Criminal Activity/Behavior.
h. Bomb Threat.
i. Civil Disturbance/Demonstration.
j. Military/Commercial Downed Aircraft.

A. Fire

Payson City policies and procedures require that all persons in a facility evacuate that facility any time the fire alarm is activated. Payson City protocol for response to a general fire is as follows:

a. Activate the nearest fire alarm.
b. If alarm is not available - notify via voice, radio, or phone paging system.
c. Consideration for use of a fire extinguisher:
    i. Fire is small – containing no explosives or flammable liquids.
    ii. Have a clear escape route away from fire source.
    iii. Have been trained in use the proper of an extinguisher.
    iv. Have confidence in their skill to use an extinguisher.
d Leave facility by designated escape routes:
    i. Don't run.
    ii. Close doors when all personnel have cleared area.
    iii. Assist others in need of evacuation help.
e. Assemble in designated evacuation points to await head count.
f. Notify Evacuation Point Contact of any processes that were left on or are of a critical nature.
g. Do not re-enter facility until instructed.

Landfill Operations

The Site foreman or designated Operator/Lead is the designated Incident Commander (IC) in the event of a fire emergency and will conduct the following fire response:

i. Landfill face: isolate from other waste, push dirt over, smother fire, or call for water truck and suppress with minimum amount of water.
ii. Landfill brush: push dirt over, smother fire, call for water truck, or call 911 request a Fire Department Brush Truck.
iii. Landfill General Response and Green Waste Facility.

Warm Weather:

- Notify Foreman and/or other operators by radio or phone.
- Use on board fire extinguisher to initially contain propagation of fire.
- Water Truck or Pull Tanker will be brought to the scene to extinguish fire – both are to take the higher ground.
- If within a container, tow container to open area to allow to burn out or continue to extinguish.
- Having proper PPE donned, open door of canister; finish suppression with Water Truck or Pull Tanker and/or Loader or Excavator – to pull out contents and expose flames/hotspots.

Cold Weather:

- Notify Foreman and/or other operators by radio or phone.
- Use on board fire extinguisher to initially contain propagation of fire.
- Front End Loader to obtain a bucket of dirt to be brought to the scene to extinguish fire. Both are to take the higher ground attack posture.
- Front End Loader – dirt, and/or Excavator – to pull out contents and expose flames/hotspots.

iv. Equipment Fire: Notify Foreman and/or other operators by radio or phone: use on board fire extinguisher.

v. Scale House: Evacuate building and call 911.

Emergency Gathering Points

Payson City Landfill:

Scale House emergency evacuation assembly points are located on the north side of the Scale House.

Personnel are to remain in area until both area supervision and Safety verify an accurate head count.

Immediately following any fire, the following protocol will be followed:

Facility Building:

- All fire protection systems/equipment will be replaced and/or reset.
- Lead Operator will secure the scene by cordoning off effected area with barrier tape or other appropriate media to restrict unauthorized traffic into area.
- Lead Operator and Landfill Management will constitute the initial investigation team and will be notified within the first hour and convened within the first two hours following the incident.
- Accurate documentation of the event to include, but not limited to, circumstances, scene location, probable cause, equipment involved, personnel involved, detailed documentation of injuries, associated deaths, dismemberments, estimation of damage with estimation of associated cost, witness statements, machinery instrument logs, computer data history, digital imagery or equivalent technology.

- Landfill Management and Payson City Management will formulate a written salvage operation plan based on the documented findings of the initial investigation team.
- Immediate notification of State Fire Marshall Office if incident is suspected to be suspicious in nature.
- Immediate notification of State Medical Examiner Office if incident involves loss of life.
- Notification of insurance courier will occur during the initial 8 hours of the event.
- Notification requirements of Occupational Safety and Health Administration (OSHA)

  Within 8 hours after death of any employee as a result of a work-related incident.

  Within 24 hours after the in-patient hospitalization of one or more employees or an employee's amputation or an employee's loss of an eye, as a result of a work-related incident.
- Special Procedures – Landfill Active Face Refuse Fire – Dirt will be primary means to smother the fire.
- Special Procedures – Landfill Foliage Fire – Call 911- Use water and earth moving equipment to extinguish.

B. Explosion

In the event a mishap occurs such as an explosion at the facilities, take the following actions:

a. Immediately take cover under tables, desk, and other objects that will give protection against falling glass or debris.

b. After the effects of the explosion and/or fire have subsided, notify Payson City Police or Utah County Sheriff Bomb Technician at 911; give your name and describe the location and nature of the emergency.

c. If necessary, or when directed to do so, activate the building alarm.

d. When the building evacuation alarm is sounded or when told to leave by Payson City Management or designate, walk quickly to the nearest marked exit and ask others to do the same.

e. Assist the handicapped in exiting the building.

f. Once outside, move to a clear area that is at least 1000 feet away from the affected building, keep roadways and walkways clear for emergency vehicles and crews, know your assembly points.

g. If requested, assist Emergency crews as necessary.

h. Do not return to an evacuated building unless told to do so by an authorized Payson City Management or designate.

Explosive/Pipe Bombs

If unscheduled waste articles, such as ammunition, explosives, pipe bombs, etc., that are brought into or discovered at the facilities, take the following actions:

Explosives/Pipe Bombs:

a. Don't disturb the material/substance and notify Facility Supervision/Management or Payson City Safety: NOTE – Do Not use Cellular Phone or Radio and No Smoking in the same area as the material/ substance.

b. Evacuate area or deny entry to transient personnel to a distance of 100 yards in all directions.

c. Cordon off immediate area with cones or tape.

d. Record description of article/material substance, e.g., type of container, material color, any oily/dusty appearance on container, etc.

e. Facility Supervision/Management or Payson City Safety will notify law enforcement at 911 and report the following:

   i. A suspicious article has been found at – Payson City facilities, give name of person reporting, give address of facility, give contact phone number (Do Not Hang up until told to do so).

   ii. Request On-Call Bomb Technician and other appropriate units to respond.

Ammunitions

As general policy, ammunition, explosives, gun powder and like substances are not to be left at the facilities; however, if said material is discovered during waste screening or during the disposal process the following actions will be taken:

Ammunition Container/Casing Material (Stable/Good Shape)

a. Take and secure ammunition in cool dry place.

b. Notify Facility Supervision/Management or Payson City Safety.

Ammunition Container/Casing Material (Unstable/Poor, Questionable Shape)

a. Don't disturb the material/substance and notify Facility Supervision/Management or Payson City Safety: NOTE – Do Not use Cellular Phone or Radio and No Smoking in the same area as the material/ substance.

b. Evacuate area denying entry to transient personnel a distance of 100 yards in all directions.

c. Cordon off immediate area with cones or tape.

d. Record description of article/material substance, e.g., type of container, material color, any oily/dusty appearance on container, etc.

C. Trauma or Medical Emergency

In the event of a trauma/medical emergency, the first person to respond will:

a. Take the appropriate measure to notify the proper contact point in the Scale House.

b. By declaring an emergency either by phone or Payson City facility radio; if contact is by radio, "Emergency, Emergency, Emergency" will be stated; all other radio traffic will yield to declared emergency, name of person declaring, location of incident, what the problem is, type of assistance required will be transmitted.

c. Payson City Emergency Response will consist of:

   i. Site Foreman, Emergency Medical Technician (EMT) or First Responders will report to incident scene with trauma/medical kit and automated external defibrillator (if required).

   ii. Site Foreman, first person to respond, First Responder, or EMT will request rescue or ambulance upon assessment findings.

   iii. Basic first aid, cardiopulmonary resuscitation (CPR), or use of automated external defibrillator (AED) procedures will be initiated based on assessment findings.

   iv. Upon arrival of Municipal or County Emergency Response Personnel, patient care and all relevant patient information will be transferred to the responding agency.

   v. Any equipment or supplies will be restocked or replaced after the event.

d. The site foreman will transmit an "All Clear/Return to Operational Status" message over the radio to indicate return to normal operations after the incident.

e. Accurate documentation of the event to include, but not limited to, circumstances, scene location, probable cause, equipment involved, personnel involved, detailed documentation of injuries, associated deaths, dismemberments, estimation of damage with estimation of associated cost, witness statements, instrument logs, computer data history, digital imagery or equivalent technology.

f. Site Foreman and Payson City Management will formulate a written salvage operation plan based on the documented findings of the initial investigation team.

g. Immediate notification of local law enforcement if incident is suspected to be suspicious in nature.

h. Immediate notification of State Medical Examiner Office if incident involves loss of life

i. Immediate notification to OSHA if incident involves a fatality within 8 hours of the event.

- 801-530-6901

j. Notification of insurance courier will occur during the initial 8 hours of the event.

D. Hazardous Material Release

General Response

In the event of a hazardous material release, consideration to the following must be given priority:

a. Consult product material safety data sheet information before proceeding to any type of remedial action.

b. Safety of employee, i.e., employee shall be properly trained to handle hazardous material release, possess and use proper personal protective equipment, have adequate assistance – manpower and material to remediate the situation.

c. All efforts will be taken to contain the spill as soon as it occurs: the use of blue absorbent clothes, speedy dry, or other approved absorbent material; also, sand and dirt dams may be utilized.

d. Consideration of additional hazardous material resources.

i. Utah County Health Department – 1(801) 851-7000

ii. Payson City Sewer – 1(801) 465-5277

iii. Payson City Fire – HAZMAT Response - 911

Payson City Landfill - Acid/Caustic Release

a. Upon recognition of either acid or caustic release – appearance of white cloud, stinging of the eyes, throat, burning sensation upon inhalation – immediately notify other personnel in area and isolate section with safety cones or block entry with equipment.

b. Notify scale house, site foreman, and facility management of situation by phone, radio, or verbally.

c. Do Not re-enter area. Allow entry only to those properly trained and wearing appropriate level of personal protective equipment, and with adequate manpower and remediation material to handle the situation.

d. Consult product material safety data sheet information before proceeding further – if product is known.

e. Take appropriate action to contain the spread of material by diking with dirt, sand, mulch or similar material.

f. Determine if material is acidic or caustic by means of litmus indicator paper. Use appropriate neutralizing agent to bring material to a pH of ~7.0 (neutral).

g. When material is neutralized, bury material at the waste toe.

h. Properly decontaminate personnel, equipment, and tooling.

i. If amount of material overwhelms Payson City resources immediately contact Payson City Fire Department-HAZMAT Response and Utah County Health Department.

Payson City Landfill - Diesel Fuel

a. In the event of a fuel spill — immediately notify other personnel in area of the hazard and extinguish all sources of ignition.

b. Notify Site Foreman of situation by phone, radio, or verbally.

c. Do Not re-enter and deny entry into area unless properly trained, have and donned appropriate level of personal protective equipment, have adequate manpower and remediation material.

d. Consult product material safety data sheet information before proceeding further.

e. All efforts will be taken to contain the spill as soon as it occurs: the use of blue absorbent clothes, speedy dry, or other approved absorbent material; also, sand and dirt dams may be utilized.

f. After spilled fuel is contained and absorbed, cleanup will consist of shoveling fuel laden absorbent into containers for disposal in the landfill and an application of a layer of fresh absorbent to surface dry effected area – to be cleaned up after reasonable amount of time.

g. Request additional resources if not able to contain the spill due to lack of manpower or materials.

Lubricant/Hydrocarbon Base Material

a. Upon recognition of lubricant release – immediately notify other personnel in area and extinguish all sources of ignition.

b. Notify Site Foreman of situation by phone, radio, or verbally.

c. Do Not re-enter and deny entry into area unless properly trained, have and donned appropriate level of personal protective equipment, have adequate manpower and remediation material.

d. Consult product material safety data sheet information before proceeding further.

e. Every effort must be taken to contain the spill as soon as it occurs: the use of blue absorbent clothes, speedy dry, or other approved absorbent material; also, sand and dirt dams may be utilized.

f. After spilt lubricant is contained and absorbed, cleanup will consist of shoveling fuel laden absorbent into containers for disposal in trash pit or landfill and an application of a layer of fresh absorbent to surface dry effected area – to be cleaned up after reasonable amount of time.

g. Consideration to request additional resources if not able to contain nor possessing adequate amount of manpower or materials.

E. Earthquake

During an earthquake, remain calm and quickly follow the steps outlined below:

a. If INDOORS, seek refuge in a doorway or under a desk or table. Stay away from glass windows.

b. If OUTDOORS, move quickly away from buildings, utility poles, electrical generators, bulk fuel storage tanks, and other structures. CAUTION: Always avoid power or utility lines as they may be energized.

c. If in an automobile, heavy equipment, large trucks, stop in the safest place available, preferably away from power lines and steep slopes. Stop as quickly as safety permits but stay in your vehicle for it offers shelter.

d. After the initial shock, evaluate the situation and if emergency help is needed, call Payson City Administrative Office or Payson City Safety. Protect yourself always and be prepared for aftershocks.

e. Damaged facilities should be reported to Payson City Administrative Office or Payson City Safety. NOTE: Gas leaks and power failures create specific hazards.

If an emergency exists, activate the building alarm, and evacuate to assembly areas.

F. Severe Weather

The Payson City Executive Director, applicable facility management, Payson City Safety, or designate will monitor the National Weather Service radio and will initiate notifications when severe weather bulletins are issued for the immediate area:

1) Tornado/Thunderstorm/Wind Watch—indicates that atmospheric conditions are conducive for the development of the stated warning. Normal operations will continue. Employees should keep a close eye on changing weather conditions and be prepared to act if necessary.

2) Tornado/Thunderstorm/Wind Warning—indicates that the hazardous condition stated has been spotted or identified on radar. When these conditions immediately threaten the Payson City facilities, facility management will issue notification through telephone communications to the respective landfill personnel.

   i) NOTE: Hazardous weather conditions can develop in seconds and will not allow for formal means of communication. In the event an employee feels that weather is immediately threatening, they will initiate the following actions:

      a) TAKE COVER. Instruct employees and others nearby to a wall near the interior of the building away from windows and exterior doors. Individuals should curl up in a "ball" or fetal position, place their hands over their head and remain in that position until the severe weather passes.

      b) Landfill Operations: if in an open area - seek the lowest surface point possible, avoid berm ridges, high spots, touching metal, seek surface depressions, e.g., irrigation ditch, culvert, etc.

         (1) DO NOT LEAVE THE BUILDING OR INITIATE A BUILDING EVACUATION DURING THESE CIRCUMSTANCES. WHEN SEVERE WEATHER STRIKES, POWER MAY BE INTERRUPTED CAUSING ALARMS TO SOUND. IF FIRE IS NOT IMMEDIATELY PRESENT AND A CLEAR EXIT IS MAINTAINED, EVERYONE SHOULD REMAIN UNTIL THE SEVERE WEATHER PASSES.

3) Snow, Ice, Or Flooding

   Snow, ice and/or flood can make travel to and from Payson City facilities hazardous. When the potential or conditions develop that would make travel to and from the facilities a hazard, the following steps will be followed:

   i. Payson City facilities, the Payson City facility management will monitor the National Weather Service broadcasts, local reports, and/or contact the Utah Highway Patrol or Utah Department of Transportation Website for road condition updates. Upon receipt of information that would make travel hazardous, the appropriate level of management will be contacted.

   ii. If weather conditions threaten Payson City operations, the landfill operations maybe temporarily suspended, and the proper level of management will be notified.

4) Emergency Closing Information

   In the event of weather conditions that might cause any interruption in workflow or events at Payson City facilities, personnel and staff are advised to contact their respective Facility Manager for reports on operation status:

Facility Manager will serve as the primary source of information for Payson City Operations status during inclement weather. Among the actions that might be taken by Payson City are:

1. Closure of Payson City facilities.
2. Delay opening the Payson City facility operations.
3. Remain open with no changes in schedule.

If inclement weather conditions occur overnight, the decision to close or remain open will be made as soon as possible, ideally prior to 5 a.m., and will be communicated to the Payson City points of contact as soon as possible.

If weather conditions that may affect the operation occur during normal hours of operation (7 a.m. to 5/7 p.m., Monday through Saturday), the decision will be communicated via the points of contact as noted above.

F. Bomb Threat

Payson City does not require employees to place themselves nor fellow employees in danger by searching for suspicious materials or reported placement of explosives; however, it is required for employees to perform the following functions prior to evacuating:

If you observe a suspicious object or potential bomb on campus, DO NOT HANDLE THE OBJECT! Clear the area immediately and call Public Safety. Any person receiving a bomb threat by telephone should attempt to ask the caller:

When is the bomb going to explode?

Where is the bomb located?

What kind of bomb is it?

What does it look like?

Why did you place the bomb?

What is your name?

Normally the caller will not answer these questions but may make comments. During this time, the person answering the phone should attempt to listen to background noises, the accent of the caller, or gather any information from noises of sounds heard during the conversation.

Keep talking to the caller if possible and record the following:

Time of call

Age and sex of caller

Speech pattern, accent, possible nationality, etc.

Emotional state of caller, e.g., angry, frantic, calm, etc.

Background noise.

Report the incident immediately to law enforcement, on-duty supervisor, Payson City Safety, and respective Facility Management.

A decision will be made between the person in charge of the area, Payson City Safety, and respective Facility Management as to whether the building or area will be evacuated.

EVACUATION ORDERED - The responding law enforcement departments will conduct a search of the area. Payson City employees in the affected area will be required to evacuate and re-group at the evacuation assembly points.

EVACUATION NOT ORDERED - The responding law enforcement departments, in concert with employees in the affected area, may be required to conduct a Covert Search. Employees will be asked to discreetly check their immediate work areas for any suspicious packages, devices, etc.

Bomb/Suspicious Device/Package Located

Payson City Safety, respective Facility Management will order the immediate evacuation of the area.

TWO-WAY RADIOS, CELL PHONES OR OTHER ELECTRONIC COMMUNICATION DEVICES WILL NOT BE USED WITHIN 1500 FEET OF THE SUSPECTED DEVICE!

Law enforcement, Payson City Executive Director immediately will be contacted as well as applicable members of the Emergency Action Board**.**

I.d.4 Groundwater Corrective Action Programs

Class V and Class VI

Assessment Monitoring Program

This Assessment Monitoring Program (AMP) will continue to be utilized whenever a statistically significant contaminant concentration, with respect to background levels has been detected for one or more of the constituents listed in R315-308-4 that has an associated groundwater protection standard during detection monitoring. If Payson City determines that there has been a statistically significant increase in a contaminant concentration with respect to background, Payson City will:

- Notify DWMRC, in writing, within 14 days of the completion of the statistical analysis of the sample results and within 30 days of the receipt of the sample results within 14 days of obtaining laboratory results at:

  UDEQ - Division of Waste Management and Radiation Control

  288 North 1460 West

  Salt Lake City, Utah 84114-4880

- Identify the parameters that have shown statistically significant changes. This information will be included in the notification.
- Enter sampling analysis results into the operating record.
- Immediately re-sample the groundwater in all wells, or a subset of the wells as specified by the Director, for all constituents listed in R315-308 and determine whether a statistically significant change has occurred such that the groundwater protection level has been exceeded. If a statistically significant change has occurred, Payson City will report the sample analysis results, in writing, within 7 days of their receipt to the above-noted address.

Payson City may demonstrate that a source other than the solid waste disposal facility caused the contamination per R315-308. A demonstration report must be prepared by a qualified groundwater scientist and be approved by the Director. If approved, Payson City may continue to monitor per the approved groundwater monitoring plan.

If, after 90 days, a demonstration has not been made that a source other than the facility caused the contamination, Payson City will initiate the following:

- Within 14 days of the determination that a successful demonstration is not made, take one sample from each downgradient well and analyze for all constituents listed in Appendix II in 40 CFR Part 258, 20011991 edition.
- For any constituent from Appendix II, 40 CFR Part 258, detected in the downgradient wells, four samples from the up-gradient wells and four samples from the downgradient

wells must be collected and statistically evaluated to establish background concentration levels for the constituents and analyzed to determine background levels.

- Within 14 days of the completion of the statistical analysis of the sample results and within 30 days of the receipt of the sample results, place a notice in the operation record and notify the Director in writing.
- Payson City will then re-sample all wells on a quarterly basis for the constituents listed in R315-308 and the detected constituents from Appendix II of 40 CFR Part 258.
- Payson City will also sample all downgradient wells on an annual basis for all 40 CFR Part 258 Appendix II constituents.

If, after two consecutive sampling events, the concentrations of all constituents are shown to be at or below established background levels, Payson City must notify the Director, in writing, within 14 days. After which, upon approval by the Director, Payson City may return to assessment monitoring under the approved groundwater monitoring plan.

If one or more of the constituents from R315-308-4 or Appendix II are detected at statistically significant levels above the groundwater protection standard in any sampling event, Payson City must:

- Within 14 days of the receipt of this finding of this finding, notify the Director, the appropriate local governing agencies, and the local health department that groundwater quality standards have been exceeded.
- Place a notice in the operating record identifying the constituents that have exceeded the groundwater protection standard and their concentrations.
- Characterize the nature and extent of the release by installing additional monitoring wells, as necessary.
- Install at least one well on the downgradient property line and sample and analyze for constituents in R315-308 and the detected constituents from Appendix II.
- Notify all persons who own the land or reside on the land that directly overlies any part of the plume of contamination if contaminants have migrated off-site as indicated by sampling of wells.

If Payson City can demonstrate that a source other than the solid waste disposal facility caused the contamination or that the statistically significant change resulted from error in sampling, analysis, statistical evaluation or groundwater quality, they may continue monitoring as specified in R315-308-2(12)(d) or Subsection R315-308-2(12)(e) when applicableR315-308. To demonstrate this, Payson City must prepare a report that is certified by a qualified groundwater scientist, must enter the report into the operating record, and must obtain approval of the report from the Director.

Corrective Action Program

If a successful demonstration per R315-308 has not been made within 90 days, indicating that a source other than the solid waste disposal facility may be the cause of contamination, a Corrective Action Program (CAP) (R315-308-3) will be required. The CAP requires Payson City to:

- Continue to monitor as required in R315-308.
- Take any interim measures as required by the Director to ensure the protection of human health and the environment.
- Prepare a Corrective Action Plan to assess the current conditions and circumstances of the solid waste disposal facilities.
- Select a remedial action based on the Corrective Action Plan and public comments.
- Continue remedial action until Payson City notifies the Director, in writing, that the contaminant concentrations have been reduced to levels below the established background concentrations for a period of 3 years or an approved alternative length of time. Payson City and a qualified groundwater scientist must sign and certify the report demonstrating the successful completion of remedial action. Upon Director approval, Payson City will terminate corrective action measures and continue to monitor per R315-308.

The Corrective Action Plan will address the following specific items at a minimum:

- Description of selected remedy.
- Time required to begin and complete the remedy.
- Cost of remedial action.
- Public health and environmental requirements that may substantially affect the implementation of the remedy.
- Comments from a public meeting held to discuss the corrective action.
- Performance, reliability, ease of implementation, and potential impacts of appropriate potential remedies, including safety impacts, cross-media impacts, and control exposure to any residual contamination.

The Corrective Action Plan will be submitted within 14 days after the selection of a final remedy. Payson City must:

- Amend the Corrective Action Plan, as necessary, and submit a report to the Director for approval describing the remedy and providing a schedule for implementation and estimated time of completion.
- Put into place the financial assurance mechanisms as required by R315-309 and notify the Director of the financial assurance mechanism and its effective date.

In selecting a remedy, Payson City will consider:

- Nature and extent of contamination.
- Resource value of the groundwater.
- Long-term and short-term effectiveness and protectiveness of the remedy.
- Effectiveness of the remedy in controlling the source to reduce or eliminate further releases.
- Ease or difficulty of implementation.
- Practicable capability of owner or operator including technical or economic capability.
- Degree to which community concerns are addressed.
- Any other relevant factors.
- Attain the established ground water quality standard.

All possible remedies will be evaluated including the no-action alternatives. Evaluation of the technical and economic items listed above will be demonstrated to the satisfaction of the Director.

I.d.5 Release of Explosive Gases and Run Off System Failure

Class V & VI

Methane gas release would be detected using a methane detection meter capable of measuring methane levels below the 25% Lower Explosion Limit. Gas monitoring would be conducted around the disposal area and in any of the facility structures. Upon detection of explosive gases equal to or above the lower explosion limit, the Owner or Operator would take the following steps:

1. Immediately upon detection, steps would be taken to protect human health. These steps would include evacuation of surrounding area, shutdown of any electrical or mechanical devices that could cause ignition, and determination of the cause of explosive gas. The area would remain closed until corrective actions were taken.

2. Within 24 hours the Executive Secretary would be notified.

3. Within seven days of detection, the explosive gas levels would be recorded in the operating record along with a description of the steps taken to protect human health.

4. Within 60 days of detection, a remediation plan that had been approved by the Executive Secretary would be implemented and a copy of the plan placed in the operating record. Upon implementation, the Executive Secretary would be notified.

I.d.6 Fugitive Dust Plan

Class V and Class VI

Payson City's Dust Control Plan (FDCP) was developed to minimize fugitive dust emissions at the Payson City Landfill. This FDCP identifies control measures to be applied by Payson City Landfill in order to minimize fugitive dust emissions resulting from operations at the Payson City Landfill. This FDCP covers only those operations performed by Payson City. The intent of this FDCP is to ensure compliance with the opacity standards specified in the Utah Air Quality Rules. Payson City has identified control options for each operation, and these options have been ordered according to their ease of implementation and effectiveness. Level 1 describes the minimum level of control for each operation that will be used at a site. If Level 1 is not sufficient to meet the opacity standards, Level 2 controls will be applied. If Level 2 is not sufficient, Level 3 controls will be applied. Finally, if Level 3 is not sufficient, Level 4 controls will be applied (if they are available). For each operation, the final method of control is to stop operation until weather conditions allow the opacity standards to be maintained.

The requirements of an Approval Order (AO) take precedence over the control options of this FDCP.

Material Handling (compactors, dozers, front-end loaders, etc.)

Level 1	No action is required due to material constitution and weather conditions.
Level 2	Minimize drop heights and reduce operating speeds as necessary.
Level 3	Water and dust suppression sprays will be applied to the material prior to handling and transfer, as required.
Level 4	Operations will cease until weather conditions improve to the point that the opacity standards can be maintained.

Unpaved Roads and Work Areas

Level 1	Road surfaces will be adequately maintained.

Level 2 Water suppression sprays will be applied to the unpaved roads and work areas, as required.

Exceptions:

Water will not be applied to roads or work areas on days when the rainfall exceeds 0.10 inches, when the road or work areas are muddy, when the roads or work areas are covered with snow or ice, or when the temperature drops below freezing.

Level 3 Operators will reduce vehicle speeds, as required. Chemical dust suppression may be applied.

Level 4 Operations will cease until weather conditions improve to the point that the opacity standards can be maintained.

Paved Roads and Work Areas

Level 1 No action is required due to optimum weather and/or material conditions.

Level 2 The roads and work areas will be swept or flushed with water to remove material, as required. If large amounts of material get on the surfaces, to the point where a water spray would be inefficient, the material will be manually removed, or a sweeper used. Transition Zones may be established.

Exceptions:

Water will not be applied when the roads or work areas are covered with snow or ice or when the temperature drops below freezing.

Level 3 Operators will reduce vehicle speeds, as required.

Level 4 Operations will cease until weather conditions improve to the point that the opacity standards can be maintained.

Exposed Surfaces

Level 1 No action required, due to material moisture content or weather conditions.

Level 2 Water suppression sprays will be applied to the surfaces, as required.

Level 3 Operations will cease until weather conditions improve to the point that the opacity standards can be maintained.

Earthmoving and Excavation

Level 1 No action required, due to material moisture content or weather conditions.

Level 2 Water suppression sprays will be applied to the material, and work areas as required.

Level 3	Operations will cease until weather conditions improve to the point that the opacity standards can be maintained.

Grading

Level 1	No action required due to material moisture content or weather conditions.
Level 2	Water suppression sprays will be applied to the material, and work areas as required.
Level 3	Operations will cease until weather conditions improve to the point that the opacity standards can be maintained.

Class VI

The steps given above for Class V will be followed, however the isolated location of the facility reduces the nuisance fugitive dust may cause. Covering of the wastes as indicated below as well as keeping the disposal areas to a maximum of 5 acres will also prevent emissions of fugitive dust. Closed Cells will be vegetated to prevent long-term dust emissions.

I.d.7 Litter Control Plan

Class V and Class VI

The Landfill Manager will continue the ongoing litter collection program in order to minimize the impacts of litter on and surrounding the site. This program consists of various activities designed to reduce windblown litter, as well as other site features and operations that help to reduce windblown litter. Activities specifically designed to reduce amounts of windblown litter include minimizing the size of the active face, thereby reducing the area of wastes exposed to wind, and erecting temporary litter fences downwind from the active face. The height and length of the fences can be adjusted to maximize their effectiveness in trapping windblown litter.

Other features and operating techniques that reduce windblown litter include perimeter fencing around the landfill site to back up the temporary litter fences; applying daily and intermediate soil; and compacting refuse layers at a maximum thickness of 2 feet to hold freshly deposited refuse to underlying landfill layers. Site and surrounding area inspections will be conducted routinely, and any windblown litter found will be collected.

I.d.8 Maintenance of Installed Equipment

Class V and Class VI

Closure of the landfills will be completed in such a manner that additional maintenance during the post-closure period will be kept to a minimum. The groundwater and gas monitoring systems will be maintained to enable satisfactory samples to be taken and analyzed. The scale house

facility will most likely be utilized or relocated for new cells that will be developed to the west of the current landfill site.

The following subsections offer a description of the maintenance of installed equipment including groundwater monitoring systems and leachate and gas collection systems.

Groundwater Monitoring System

All groundwater monitoring wells will be inspected for signs of failure or deterioration during each sampling event. If damage is discovered, the nature and extent of the problem will be recorded. A decision will be made to replace or repair the well. Possible repairs include pump repair or replacement, redevelopment, chemical treatment, partial casing replacement or repair, sealing the annulus, or pumping and testing. If a well needs to be replaced, it will be properly decommissioned. Damaged wells will be scheduled for repair or replacement.

Leachate Collection and Recovery System

Currently the facility is not required to have a leachate collection and recovery system. New Class V lined cells will be equipped with leachate collection and recovery. These systems will be installed as part of the lined landfill design, must be maintained so that it operates during the operational life and closure and post-closure period. The system will be inspected no less than quarterly by Payson City Landfill staff for signs of deterioration. Payson City or a licensed contractor will make the required repairs. Cleanouts may be included in the design to be used to internally inspect the main collection pipe using in-line camera equipment. If necessary, these cleanouts can also be used to jet the pipe clean to re-establish flow.

Gas Monitoring System

Currently the landfill is not required to have a landfill gas collections and destruction system. The landfill gas is monitored no less than quarterly. Should a system be required, it will also be monitored as necessary and will be repaired, and parts replaced as required to maintain system capabilities. The program described below for inspecting and maintaining the gas monitoring system will be followed during the post-closure maintenance period.

Preventive maintenance will be performed on all mechanical equipment at manufacturer-recommended intervals. These tasks include cleaning, lubrication, and replacement of worn parts.

I.d.9 Hazardous Waste Exclusion Plan

Class V and Class VI

Payson City has established strict acceptance standards for non-hazardous solid waste streams. The landfill employees will supervise the unloading of all waste. Random inspections for hazardous waste, bulk liquids, used oi, automotive batteries, and any other prohibited waste will be conducted on approximately 10% of the loads. Any inspection form is completed for each

inspection. (See inspection form in Appendix D, *Payson City Landfill Waste Inspection Notification Report*).

The landfill will not accept regulated hazardous waste, including PCB wastes. Wastes that are prohibited from being deposited at the landfill include the following:

A. Listed wastes (Subpart C, 40 CFR part 261)
B. Exhibits Hazardous Characteristics (Subpart C, 40 CFR part 261)
C. A mixture containing a "listed" waste.
D. Wastes containing PCBs.

I.d.10 Disease Vector Control Plan

Class V

The daily compacting and soil cover of the deposited waste will continue to control disease vectors. Keeping the open working face small and thoroughly compacting and covering the waste with soil at the end of each day has been effective in preventing disease vectors from becoming a problem at the landfill.

Class VI

The expectations for the need to control disease in a construction and demolition waste landfill are low. Keeping the open working face small, thoroughly compacting and covering the waste with soil have been effective in preventing disease vectors from becoming a problem.

I.d.11 Alternative Waste Handling Plan

Class V and Class VI

Based on historical operations, landfilling operations should not have to be suspended long term due to inclement weather conditions or interruption of service. The site soils, including those planned for daily cover, consist of silty fine sands; these soils are easily placed over a wide range of moisture and weather conditions. If the need does arise for alternate waste handling; then the landfill will send the incoming waste to another agreed upon landfill or transfer facility, a possible option is the South Utah Valley Transfer Station.

I.d.12 General Training Plan

Class V and Class VI

Each landfill operator will receive the necessary training and safety orientation before being permitted to work in the landfill. Local seminars that are provided by SWANA and SWTI will continue to be used for the majority of the training. Bi-monthly supervisor and operator safety meetings will be held to keep safety issues current. These meetings also allow for an exchange of information between the landfill operators and management.

Payson City personnel will be trained on how to identify unacceptable waste including liquid wastes, sludge, potential regulated hazardous waste, and PCB wastes. Personnel to be trained will

include the Landfill Manager, equipment operators, and scale house attendants. The training will emphasize methods of identifying containers and labels typical of hazardous and PCB waste. Training will also address the proper handling of unacceptable waste. All employees will receive on the job training in landfill operations and waste screening. This training will include operations and safety training. New employees will typically receive training during their first 3 months of employment. The Landfill Manager and at least one additional landfill employee will be trained and certified as a SWANA or SWTI Manager of Landfill Operations. The Landfill Manager and all employees will be trained in waste screening using the SWANA or SWTI techniques or other equivalent training sources.

I.d.13 Recycling Programs

Class V and Class VI

The Payson City landfill does not currently operate any recycling programs for general public use.

I.d.14 Closure & Post - Closure Plan

Class V and Class VI

This section describes the final cover construction, site capacity, schedule of closure implementation, estimated costs for closure, and final inspection procedures for the existing landfill operations and future closure stages of the Payson City Landfill.

I.d.14.A Closure Strategy

Class V and Class VI

Closure will occur as each lift is completed. The clay material and soil will be placed and revegetated to reduce erosion. Projections for the amount of waste to be received and processed at the landfill are based on the 2016 Master Plan and the 2019 Resource Conservation Plan prepared by Advanced Environmental Engineering. These plans estimated population growth projections at about 2.0% until 2034 and then 2.5% through 2066. Estimates for waste generation were based on actual waste received and were increased proportionally to the population growth.

The estimated time of closure of each landfill is based on shredding all Class VI materials. These shredded materials are approved as an alternative and temporary cover for the Class V landfill. Any surplus shredded Class VI is deposited and compacted within the Class VI disposal area. Using the latest planning numbers, the full development closure for the current footprint of the Class V disposal cell is the year 2027. Class VI cell is also expected to near completion in the year 2027.

I.d.14.B Final Cover Design and Installation

Class V

The final cover for the landfill will be an 18" layer of clay material with a hydraulic permeability of less than 1 X 10-7 cm/sec. The clay material is being excavated from the Class VI landfill cell and stockpiled for use as closure of the V landfill takes place. Samples of the clay have been analyzed at the laboratory and results indicate that permeability is less than 1 X 10-7 cm/sec. A 30" thick layer of soil, with the upper portion of that layer being topsoil that will be suitable for sustaining low growing grass, will cover the clay material for a total thickness of 48". The maximums side slopes of the Class V cells are 3H:1V.

Class VI

A cell when completely filled will be final covered with 24" of cover soils overlain by 6" of topsoil, which has already been stockpiled, for a total thickness of 30". The maximum side slopes of Class VI cells are 3H:1V.

I.d.14.C Seed, Fertilizer and Mulch

Class V and Class VI

After the clay layer and topsoil layer has been placed over the waste, the soil will be seeded with range grasses that are indigenous to the area. Runoff collection ditches will be strategically placed to prevent erosion of the final cover.

I.d.14.D Landscaping

Class V and Class VI

No specialized landscaping is required at the facility.

I.d.14.E Contouring

Class V and Class VI

These landfills will be contoured to have a maximum slope of 3H:1V and will be graded with access and services roads along with stormwater collection and conveyance systems.

I.d.14.F Quality Assurance/Quality Control (QA/QC) Procedures

Class V and Class VI

Final landfill cover construction and activities associated with each of the closure stages is an on-going process. Drawings, specifications and QA/QC procedures have been developed and submitted to the DWMRC for review and approval in the past. Unless notified otherwise by DWMRC, closure activities will be completed as previously approved by the DWMRC.

I.d.14.G Closure Cost Estimates

Class V

Per UAC R315-309-8, Payson City utilizes the local government test for financial assurance. Financial assurance estimates are updated annually. The current estimate is as follows:

Class V Landfill - Closure

Description	Unit	Quantity	Unit Cost	Total
Cell Cover Preparation	AC	16.0	$1,500.00	$24,000.00
Clay Soil (18")	CY	38720	$3.50	$135,520.00
Protection Layer (30")	CY	64540	$3.50	$225,890.00
Revegetation	AC	16.0	$1,500.00	$24,000.00
Construction Management & QA/QC Testing	LS	1	$30,000.00	$30,000.00
			Subtotal	**$439,410.00**

Class VI

Per UAC R315-309-8, Payson City utilizes the local government test for financial assurance. Financial assurance estimates are updated annually. The current estimate is as follows:

Class VI Landfill - Closure

Item	Unit	Quantity	Unit Cost	Total
Cell Cover Preparation	AC	12.0	$1,500.00	$18,000.00
Cover (18")	CY	29040	$3.50	$101,640.00
Revegetation	AC	12.0	$1,500.00	$18,000.00
Construction Management & QA/QC Testing	LS	1	$20,000.00	$20,000.00
			Subtotal	**$157,640.00**

I.d.14.H Certification of Closure and Record Keeping

Class V and Class VI

A civil engineer registered in the State of Utah will design and observe the closure of the landfill. The registered civil engineer will be employed by Payson City Corporation or will be a hired consultant and will certify the landfill was closed per the closure plan. Any amendment or deviation to the closure plan will be approved by the Director and any associated permit modifications will be made. As part of the certification process, the civil engineer shall also provide closure as-built drawings to the Director within 90 days following completion of closure activities.

Additionally, the final plans and the amount and location of waste will be recorded on the site title. Payson City will file the notarized plat with the county recorder within 60 days following certification of closure.

I.d.14.I Post-Closure Plan

Post closure activities will begin when closure has been approved by the Director.

I.d.14.J Monitoring Program

The following subsections offer a description of the Post-Closure Plan, which includes groundwater monitoring systems, leachate, and gas collection systems.

I.d.14.J.1 Groundwater

Class V

Groundwater monitoring for Class V waste will be continued through the post-closure period. Sampling will be conducted in accordance with the ground water monitoring plan. Sample results will be analyzed for significant changes since the previous samples were taken.

Class VI

Groundwater monitoring is not required for Class VI waste.

I.d.14.J.2 Surface Water

Class V and Class VI

Although no surface water sampling activities are required for the Payson City Landfill operations, personnel will inspect the drainage system no less than quarterly. Payson City or a licensed general contractor will repair or replace drainage facilities, if necessary.

I.d.14.J.3 Leachate Collection and Treatment

Class V and Class VI

The landfill does not operate a Leachate Collection System.

I.d.14.J.4 Landfill Gas

Class V and Class VI

The landfill does not operate a Landfill Gas Collection System. However, personnel will monitor facility structures and property boundary no less often then quarterly.

I.d.14.O Maintenance Program

Class V

During post-closure of the landfill, maintenance will take place on a quarterly basis, with greater frequency if conditions require. The final cover and run-on/run-off systems will be inspected and repaired as required. All landfill equipment, including groundwater sampling equipment and if required methane sampling and collection equipment, will be maintained according to the manufacturers recommended schedule.

Class VI

During post-closure of the landfill, maintenance will take place on a quarterly basis, with greater frequency if conditions require. The final cover and run-on/run-off systems will be inspected and repaired as required.

I.d.14.O.1 Groundwater

Class V

Groundwater monitoring at the landfill will be continued through the post-closure period until conditions are such that it is no longer needed. Sampling will be conducted in accordance with the ground water monitoring plan. Sample results will be analyzed for significant changes since the previous samples were taken.

Class VI

Groundwater monitoring for the Class VI waste stream is not required.

I.d.14.O.2 Surface Water

Class V and Class VI

Drainage control problems can result in accelerated erosion of a particular area. Differential settlement of drainage control structures can limit their usefulness and may result in a failure to properly direct storm water.

Implementation of a post-closure maintenance program will maintain the integrity of the final drainage system throughout the post-closure maintenance period. The final surface water drainage system will be evaluated and inspected for ponded water and blockage of and damage to drainage structures and swales. Where erosion problems are noted or drainage control structures need repair, proper maintenance procedures will be implemented as soon as site conditions permit so that further damage is prevented. Damaged drainage pipes and broken ditch linings will be removed and replaced.

Payson City Landfill personnel will inspect the drainage system no less than quarterly. Temporary repairs will be made until permanent repairs can be scheduled. Payson City or a licensed general contractor will replace drainage facilities.

The existing run-on and run-off prevention system is as indicated on drawing numbers: III-3-c-1, III-3-c-2, III-3-c-3, III-3-c-4 (Appendix G).

I.d.14.O.3 Leachate Collection and Treatment

Class V and Class VI

The Payson City Landfill is currently not required to have a leachate collection and recovery system.

I.d.14.O.4 Landfill Gas

Class V and Class VI

The Payson City Landfill currently is not required to operate a landfill gas collection system.

I.d.14.O.5 Facility and Structures

Class V and Class VI

The Facility is composed of a scale house at the entrance of the landfill, an active cell for each waste stream, and a compost pad. Required support facilities and structures for post-closure care will be maintained.

I.d.14.O.6 Cover and Run-On/Run-Off Systems

Class V and Class VI

The final grades and cover systems will incorporate features to manage storm water, minimize erosion, and provide for efficient removal of storm water collected in the drainage layer. Drawings provided within Appendix G show proposed final grades and illustrate the extent of storm water collection as well as surface water and erosion control systems that will be installed on the surface of the final cover. The final cover will convey collected water via earthen drainage channels subsequently using piping to convey the drainage into prepared storm water retention basins. Placement of all permanent drainage facilities will be completed in conjunction with the construction of the final cover.

I.d.14.P Schedule of Post-Closure Activities

Class V and Class VI

Post-closure activities, consisting of monitoring and maintaining the final cover and permanent drainage facilities, will be implemented periodically as areas of the landfill are filled to final grade.

I.d.14.Q Changes to Record of Title, Land Use, and Zoning

Class V and Class VI

Payson City will notify the County Recorder's Office at any such time when there is a change to the Record of Title, land use plan, or zoning restrictions. In addition, Payson City will notify the County Recorder at that time when the post-closure care period has expired and when a final site use has been accepted by the DWMRC.

I.d.14.R Recordkeeping

Class V and Class VI

Payson City will record and retain in the operating record all documentation made with respect to the closure and post-closure care plans as allowed by State of Utah Administrative Rule R315-302-3.

I.d.14.S Cost Estimates and Financial Assurance Documentation

Class V

Post closure activities will begin when closure has been approved by the Director. Per UAC R315-309-8, Payson City utilizes the local government test for financial assurance. Financial assurance estimates are updated annually. The current post-closure estimates are as follows:

Class V Landfill - Post-Closure Care

Item	Unit	Quantity	Unit Cost	Total
Groundwater Monitoring	YR	30	$15,000.00	$450,000.00
Quarterly and Gas Monitoring	YR	30	$800.00	$24,000.00
Erosion Control	YR	30	$1,500.00	$45,000.00
			Subtotal	**$519,000.00**

Class VI

Per UAC R315-309-8, Payson City utilizes the local government test for financial assurance. Financial assurance estimates are updated annually. The current post-closure estimates are as follows:

Class VI Landfill - Post-Closure Care

Item	Unit	Quantity	Unit Cost	Total
Quarterly Monitoring	YR	30	$600.00	$18,000.00
Erosion Control	YR	30	$1,500.00	$45,000.00
			Subtotal	**$63,000.00**

I.d.15 Special Waste Handling Procedures

Class V

The Payson City Landfill accepts specific special wastes, the Handling Procedures are listed separately for each waste.

Bulky Waste

Bulky waste such as automobile bodies, furniture, and appliances are recycled or crushed and then pushed onto the working face near the toe of the slope. Care is taken to prevent damage or harm to equipment or personnel.

Sludge

Sludges, that pass the paint filter test and receives approval for disposal at the Payson City Landfill may be placed at the working face and covered with other solid waste or cover material.

Dead Animals

Dead animals shall be managed and disposed of in a manner that minimizes odors and prevents the attraction of vectors. Dead animals shall be disposed at the active working face. The carcasses shall be immediately covered with a minimum of two feet of waste or other material.

Petroleum Contaminated Soils

Petroleum contaminated soils that are not a hazardous waste and containing constituents at or below the landfill's current acceptance standards may receive approval for disposal at the Payson City Landfill. These soils may be used as alternative daily cover or cover for other special wastes.

Waste Asphalt

Waste asphalt that receives approval for acceptance at the Payson City Landfill may be recycled in new access or haul road, parking lots, or other waste handling facilities.

Infectious Waste

The Payson City Landfill may consider accepting infectious waste in the Class V. Payson City will work with the County Health Department prior to accepting infectious waste. The following procedures will be in effect to minimize the potential human contact with the infectious waste:

- The transporter must have the infectious waste contained in a manner and location which affords protection from animal intrusion, does not provide a breeding place or a food source for insects or rodents, and minimizes exposure to the public.
- All infectious waste containers should be red or orange and shall be clearly identified with the international biohazard sign and one of the following labels: "INFECTIOUS WASTE", "BIOMEDICAL WASTE", or "BIOHAZARD".
- Upon entering the landfill, the transporter of infectious waste shall notify the landfill operator that the load contains infectious waste.
- The infectious waste containers will be placed at the bottom of the working face with sufficient care to avoid breaking them.
- If for some unknown reason the landfill can't promptly dispose of infectious waste in a timely manner, then the landfill can place the infectious waste in a secure storage area no longer than seven days above a temperature of 40 degrees Fahrenheit or no longer than 60 days below a temperature of 40 degrees Fahrenheit.
- The infectious waste will be immediately and completely covered with a minimum of 12 inches of soil or MSW that contains no infectious waste.
- The infectious waste will not be compacted until the 12 inches of soil or MSW containing no infectious waste is in place.

If a spill of infectious waste occurs, personnel must immediately contain the spill (if possible) and safely leave the area. Then personnel must immediately notify the supervisor, who will notify the appropriate authorities in order to contain and clean up the spill as listed below.

1. Limit access to the spill area to only authorized personnel.
2. Put on proper PPE (i.e. gloves, eye protection, coveralls, etc.).
3. Contain liquid spills by covering with absorbent pads. Place contaminated absorbent pads and other contaminated solids into a biohazard bag. Seal the bag by tying in a knot and place into a second biohazard bag. Place all biohazard bags in rigid containers.
4. Clean the spill and cover contaminated surfaces with absorbent pads and soak with appropriate disinfectant. Use bleach as a disinfectant, a 1:10 dilution (minimum 10% sodium hypochlorite solution) should be prepared immediately prior to use, with a minimum of 30 minutes contact time with the waste.
5. Place all materials used during the cleanup process in a biohazard bag. Seal the bag by tying in a knot and place into a second bag. Place all biohazard bags in rigid containers.

The Payson City Landfill will maintain an operating log as required by Section R315-316 of the Rules.

I.d.16 Liquid Minimization Plan

Class V and Class VI

Bulk or containerized liquid will not be disposed of within the Payson City Landfill (excepting household waste).

I.d.17 Standards for Maintenance and Operation

Class V and Class VI

Payson City will operate the Payson City Landfill in accordance with Rule R315-303 Landfilling Standards

Scale Operations

The scale house weighs or estimates the tonnage of all incoming waste and records the tonnage in the Payson City Landfill's operation record using the forms shown in Appendix D. Payson City Landfill will record and retain in the operating record all documentation made with respect to number of vehicles, weights or volumes of incoming wastes, types of waste received each day as allowed by State of Utah Administrative Rule R315-302. An annual summary of scale records will also be placed into the operating record.

Gate Sign, Hours of Operation, and Pertinent Information

Signs posted near the Payson City Landfill entrance clearly indicate the name of the facility, the hours during which the facility is open, the types of wastes not accepted at the site, and an emergency contact telephone number.

Fire Control Plan

Fire protection is a cooperative effort between Landfill personnel and equipment and the Payson Fire Department. Landfill personnel and equipment will be used to control fires with dirt, while the fire department will protect structures, personnel, and equipment.

Vector Control

Landfill personnel will use appropriate technologies to prevent or control on-site populations of disease vectors (e.g., rodents, insects) in order to protect human health as well as the environment. Landfill personnel will be responsible for maintaining control of vectors at the landfill through continued use of appropriate daily cover procedures. Professional extermination personnel and services may be used to control vectors if it is found that daily operations are being impacted.

The primary method of vector control is to eliminate conditions favorable to vectors through proper compaction and daily covering. Should the landfill personnel notice the presence of vectors, cover material will be applied more frequently. As with vector control, the preliminary method of controlling birds is to eliminate conditions favorable to their habitation. This can be accomplished by minimizing the size of the working face. This, along with more frequent and heavier compaction and frequent covering of the waste, will reduce the area available for the birds to feed.

Tip Face Operations, Roads and Traffic Control

The Landfill will minimize the size of the unloading area and working face as much as possible in order to remain consistent with efficient traffic patterns as well as safe operation. All approach and exit roads into the Payson City Landfill are all-weather in construction, with traffic separation and traffic control on-site and at the site entrance.

Communication

Communications are facilitated by cellular telephone, radio, and land line. Employees working at the landfill will communicate with the management office through the radio and with cellular telephone as a backup. During on-site emergencies, the Landfill Manager will control the communications with the scale house as the backup.

Plan of Operation

The Payson City Landfill is maintained and operated in accordance with the approved Plan of Operation. The plan Includes:

- Dust Control,
- Open Burning,
- Litter Control,
- Scavenging,

- Closure,
- Training,
- Staffing,
- Vector Control,
- Reserve and Operational Equipment.

The Payson City Landfill's operating plan requires compliance with the R315-303-4(2)

Boundary Fence

The Permitted Area of the Landfill is clearly marked by the boundary fence. The active area authorized in the permit is contained within the fence.

Daily and Intermediate Cover

The Landfill shall, at the close of each day of operation, completely cover the waste with at least six inches of soil or an alternative daily cover. Alternative daily cover will not be used before a holiday or weekend. Alternative daily cover will not be used in areas that will not receive waste the next day. The operating record will document alternative cover and soil use.

Disposal of Hazardous Waste and Waste Containing PCB

The Landfill's Hazardous Waste Exclusion Plan is designed to detect and deter attempts to dispose of PCBs, hazardous and other unacceptable wastes. It will continue to be implemented at the Payson City Landfill. The program is designed to protect the health and safety of employees, customers, and the general public, as well as to protect against contamination of the environment. Signs posted near the landfill entrance clearly indicate (1) name of facility; (2) hours of operation, (3) unacceptable waste; and (3) emergency contact telephone number.

All vehicles delivering wastes to the site must stop at the scale house. Commercial waste haulers are required to comply with the rules established by Payson City and can lose the right to use the facility if they violate these rules. Scale house personnel will inquire as to the contents and origin of each incoming load in order to screen for unacceptable materials. Any vehicle suspected of carrying unacceptable materials (liquid waste, sludges, or hazardous waste) will be prevented from entering the disposal site unless the driver can provide evidence that the waste is acceptable for disposal at the site. Payson City reserves the right to refuse service to any suspect load. Vehicles carrying unacceptable materials will be required to exit the site without discharging their loads. If a load is suspected of containing unacceptable materials, the following information will be recorded: date, time, name of the hauler, license plate, and source of waste. The scale house will then notify the tipping area attendants by radio that a load is suspect, and that load will be further inspected at the landfill tipping area before final disposal is allowed.

After a vehicle leaves the scale house, site personnel will route the vehicle to the appropriate discharge location. Loads will be regularly surveyed at the tipping area. If a discharged load contains inappropriate or unacceptable material, the discharger will be required to reload the material and remove it from the landfill site. If the discharger is not immediately identified, the

area where the unacceptable material was discharged will be cordoned off if necessary. The unacceptable material will be moved to a designated area for identification and preparation for proper disposal. If landfill personnel discover regulated hazardous or PCB waste, Payson City Corporation will ensure that the wastes are treated, stored, or disposed of in accordance with RCRA, TSCA, and/or applicable State of Utah requirements.

Payson City Landfill will also conduct detailed inspections of waste stream loads delivered to the landfill. The detailed inspections will be conducted on a random basis designed to detect illegal or inadvertent disposal of unacceptable wastes. Loads will be inspected at a frequency of no less than one load out of every 100 (1% of loads). The scale house attendant notifies the tipping face attendant and the driver of the selected load that an inspection of the load is required. The tipping face attendant will direct the driver to the proper location to dump the load and perform a detailed inspection of the contents.

The selected load will be spread using the compactor or dozer to a maximum thickness of 1 foot. Personnel trained in waste screening will perform a detailed inspection of the load to determine if unacceptable materials are present in the waste.

If there are unacceptable wastes in a load, the inspector will determine whether the driver should have been aware of the unacceptable wastes. If the driver could or should have recognized the unacceptable wastes, the site manager will issue a violation notice to the hauler; if the driver could not reasonably have been aware of the unacceptable wastes no violation notice will be prepared; however, the driver will be consulted and the source of the waste determined. For commercial haulers, the first violation for unacceptable wastes will result in a warning to the hauler; the second violation will result in the imposition of a fine; the third violation will result in suspension of hauler privileges. Payson City may suspend all disposal privileges at facilities of companies that violate rules. A suspended company may not use the Payson City Landfill during the period of the suspension.

If the origin of unacceptable wastes is unknown and is placed at the working face of the landfill, the area where the unacceptable material was discharged would be cordoned off. The unacceptable wastes would be moved to a designated area for identification and preparation for proper disposal by appropriate personnel.

The DWMRC will be notified if unacceptable waste is discovered at the facility. The Landfill Manager will be responsible for notifying the Director of the DWMRC and the transporter of the waste within 24 hours of discovery. This notification will include the date of discovery, type of unacceptable waste, approximate volume, and depth and location within the landfill. A copy of notification will be retained in the landfill operating record. Within thirty days of the documentation of the event, the Landfill shall submit a written report to the Director of the DWMRC 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.

If hazardous or PCB-containing waste is discovered, the Landfill Manager will take appropriate steps to protect the public and landfill personnel and will assure proper cleanup, transport, and disposal of the waste.

Personnel are trained in waste screening through OJT training and on and off-site training events. Payson City Landfill personnel will be trained on how to identify unacceptable waste including

liquid wastes, sludge, potential regulated hazardous waste, and PCB wastes. Personnel to be trained will include the Landfill Manager, equipment operators, and scale house attendants. The training will emphasize methods of identifying containers and labels typical of hazardous and PCB waste. Training will also address the proper handling of unacceptable waste. As a minimum, the Landfill Manager and all spotters will be trained in waste screening using the SWTI techniques or equivalent training.

The Landfill maintains the record of inspection for all inspections. These are signed by the inspector.

I.d.18 Other Site-Specific Information Required by Director.

Class V

None

Class VI

None

I.e Special Requirements for New or Laterally Expanding

Class V and Class VI

The Payson City Class V and Class VI landfill is an existing landfill. As discussed in paragraphs above, Payson City Corporation has owned the landfill property since 1951. This application combines both the Class V and Class VI permits into one common a facility permit number and is for the approval of a lateral expansion from DWMRC.