

## **Attachment F**

### **Hazardous Waste Contingency Plan**

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### **List of Exhibits**

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## **1. Introduction**

### **1.1 PURPOSE**

This hazardous waste contingency plan has been prepared in accordance with Title 40 of the Code of Federal Regulations (40 CFR) Part 264, Subpart D to be used in the event of an emergency involving hazardous waste at Triumvirate Environmental (Arizona), Inc., Casa Grande, Arizona facility (Facility).

The purpose of this plan is threefold:

1. To act as a guide during emergency situations (e.g., fires, chemical spills).
2. To minimize hazards to human health and the environment from fires, explosions, spills or any unplanned sudden or non-sudden release of hazardous wastes or hazardous waste constituents to the air, soil, surface water, or ground water.
3. To familiarize local emergency response personnel (i.e., police, fire and rescue departments, hospital personnel, and government personnel) with types of material handled, internal emergency response procedures, and the need for their services.

The provisions of this plan will be carried out immediately whenever there is potential for, or actually is a fire, explosion or release of hazardous waste that could threaten human health or safety and the environment. Sections 5.1 and 5.2 describe the specific emergency response procedures to be carried out in the event of a spill or fire respectively.

In addition, this plan is intended to describe the actions Facility personnel must take to minimize hazards to human health or the environment in the event of fires, explosions, or unplanned sudden or non-sudden release of hazardous wastes.

### **1.2 LOCATION OF THE PLAN**

Hard copies of this plan are maintained in the Facility's Laboratory and administration building. An electronic copy of the plan is also maintained on the Facility's electronic file server.

### **1.3 CONTINGENCY PLAN DISTRIBUTION**

A copy of the Plan and all revisions to the Plan are maintained at the Facility and submitted to local police departments, fire departments, hospitals, and State and local emergency response teams that may be called upon to provide emergency services. Copies of the Plan have been submitted to the following organizations:

- Security Service [TBD];
- Casa Grande Police Department;
- Pinal County Sheriff's Department;
- Arizona Department of Public Safety;
- City of Casa Grande Fire Department;

- Casa Grande Regional Medical Center;
- **Contracted Emergency Response Services [TBD];**
- Pinal County Local Emergency Planning Committee c/o Pinal County Office of Emergency Management; and
- Arizona Emergency Response Commission c/o Arizona Division of Emergency Management.

#### 1.4 AMENDMENTS TO THE PLAN

The Contingency Plan will be amended when one or more of the following occurs:

- A change in the facility emergency coordinators;
- A substantial change in the emergency equipment at the facility;
- The Plan fails during an emergency;
- Changes in the responses are necessary in the event of an emergency;
- A major change in material usage, production, or storage; or,
- Changes in facility design or construction which may materially increase the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents.

Any time an amendment is made to the Contingency Plan, it will be submitted to the Arizona Department of Environmental Quality as a permit modification.

## 2. Facility Description

Triumvirate Environmental (Arizona) Inc. (Triumvirate) owns and operates a commercial hazardous waste management facility (Facility) located at 73 South Commerce Drive Casa Grande, Arizona. **Exhibit F-1** depicts the location of the Facility. Triumvirate operates under a Part B Resource Conservation and Recovery Act (RCRA) permit.

The Facility is permitted to store, treat, and consolidate RCRA hazardous wastes from off-site sources, including but not limited to manufacturing facilities, remediation sites, other waste treatment and storage facilities, and transporters. In general, hazardous wastes managed at the Facility include:

- Solids;
- Liquids;
- Sludges;
- Contaminated soils and debris;
- Corrosive waste, including strong and weak acids, strong and weak caustics, and corrosive wastewaters;
- Organic waste streams such as inks, paints, solvents, and other hydrocarbons;
- Pyrophoric liquids and solids;
- Flammable gases;
- Contaminated waters and leachate;
- ab packs; and
- treatment residues from other waste treatment and storage facilities.

The types of hazardous wastes that the Facility is permitted to manage are listed in the Waste Analysis Plan.

The Facility includes a waste management and processing building containing permitted container storage areas, consolidation/treatment areas, and staging areas. A separate, isolated storage unit is used to store universal waste lithium-ion and lithium metal batteries. These areas are depicted on the Facility drawing provided as [Exhibit F-2](#), and include the following:

- Room 102: storage of flammable and combustible liquids and solids
- Room 103: storage of toxic and highly toxic liquids and solids
- Room 105: storage of corrosive liquids and solids
- Room 106: storage of oxidizers and organic peroxides
- Room 120: storage of pyrophoric liquids and solids
- Room 121: storage of water reactive wastes
- Room 124: storage of all classes of flammable and combustible liquids and solids
- Exterior Storage Area 126: storage of flammable gases
- Two, 80-cubic-yard storage/stabilization tanks

In addition, eight, 19,644-gallon organic waste storage/fuel blending tanks are located outside on the north side of the building near the northeast corner, and two 20,000-gallon corrosive waste storage tanks and two 12,500 waste neutralization tanks are located outside on the east side of the building near the northeast corner.

The Hazardous Waste Management and Processing (HWMP) building is designed with all storage and process areas meeting Class 1, Division 1 requirements and all areas of the HWMP building are equipped with fire suppression systems appropriate for the wastes being stored. Oxidizers, pyrophoric, and water-reactive are strictly segregated and their storage is restricted to the storage rooms designated for their storage, i.e., Room 106, Room 120, and Room 121, respectively. Each of these rooms is equipped with its own fire suppression system appropriate for the wastes being stored.

### **3. Emergency Response Chain of Command**

The first and most basic step in responding to a spill, fire or explosion involving hazardous waste is to have established a well-structured chain of command of trained and experienced personnel. Such a chain of command has been established at Triumvirate and will be described in this section.

At all times, there will be at least one person, either on the facility premises, or on call (can reach the facility within one hour), who will be responsible for coordination of all emergency response measures. This person will be called the Emergency Coordinator and will have full authority to commit all resources needed to carry out the measure provided in this plan. In case of emergency at the facility, the Emergency Coordinator, or an alternate, shall be contacted immediately. Each Emergency Coordinator is thoroughly familiar with this contingency plan, all operations and activities at the facility, the location and characteristics of the waste handled, the location of all the facility records, the facility layout and the location of all emergency response and spill cleanup equipment.

In the unlikely event that more than one response agency is involved in an emergency response at the Facility, the Casa Grande Fire Department will be considered the primary responder.

## **4. Designated Emergency Coordinators**

The follow employees are qualified to act as the Facility's Emergency Coordinator in the event of an emergency. The alternate emergency coordinators are listed in the order in which they will assume the responsibility of Emergency Coordinator.

### **4.1 PRIMARY EMERGENCY COORDINATOR**

Name, Title  
Address  
Telephone Number (Office)  
Telephone Number (Home)

### **4.2 ALTERNATE EMERGENCY COODINATORS**

#### **4.2.1 Alternate Emergency Coordinator 1**

Name, Title  
Address  
Telephone Number (Office)  
Telephone Number (Home)

#### **4.2.2 Alternate Emergency Coordinator 2**

Name, Title  
Address  
Telephone Number (Office)  
Telephone Number (Home)

### **4.3 RESPONSIBILITIES**

The Emergency Coordinator is responsible for coordinating all emergency response measures. This Plan describes the emergency response steps that the Emergency Coordinator will take. These actions may be taken by other individuals at the direction of the Emergency Coordinator.

#### **4.3.1 Immediate Action**

In the event of an emergency, the Emergency Coordinator must immediately:

1. Activate internal facility alarms or communication systems to notify all facility personnel.

2. Ensure that all personnel are accounted for and isolated from danger.
3. Arrange for emergency services for any injured personnel.
4. Notify the Fire Department.
5. Notify state or local emergency response teams if their help is needed.
6. Decide whether an evacuation is necessary.
7. Notify the National Response Center if required at 800-424-8802.

#### **4.3.2 Identification and Assessment**

Either through direct observation, review of operation records, manifests, waste analysis reports, or chemical analysis, the Emergency Coordinator will identify the character, exact source, amount, and extent of release materials. The Emergency Coordinator must also assess the possible hazards to human health or the environment that may result from any release, fire, or explosion (e.g., threat of fire in the event of a spill, the effects of gases generated in a fire, etc.). The Emergency Coordinator must consider both direct and indirect effects of any release, fire, or explosion.

#### **4.3.3 Danger Outside Facility**

If the emergency threatens human health or the environment outside the facility, the Emergency Coordinator must:

1. Notify local authorities if evacuation of local area is advisable.
2. Immediately notify the National Response Center at 800-424-8802 and report:
  - A. Name and telephone number of reporter
  - B. Name and address of facility
  - C. Time and type of incident (e.g., release, fire)
  - D. Name and quantity of material involved
  - E. The extent of injuries
  - F. Possible hazards to human health or the environment outside the facility

When assessing whether the evacuation of local areas is necessary, the Emergency Coordinator will assess:

1. Prevailing wind conditions
2. Potential for migration outside the facility
3. Possibility of explosion

#### **4.3.4 During an Emergency**

The Emergency Coordinator will take measures (e.g., stop operations, isolate spills, etc.) to ensure that fires, explosions, or releases do not occur, recur, or spread to other hazardous waste at the facility. If the facility stops operation, The Emergency Coordinator will monitor for leaks, pressure buildups, vapor of gas generation, etc.

#### 4.3.5 After an Emergency

After an emergency, the Emergency Coordinator will:

1. Supervise cleanup efforts and ensure that the recovered waste or contaminated material is properly stored and disposed of.
2. Ensure no waste that may be incompatible with the released material is stored or disposed of until cleanup procedures are completed.
3. Make sure emergency equipment is cleaned, recharged, reactivated, and fit for its intended use.
4. Ensure that all reporting and notification requirements are carried out.
5. Before operations resume, Triumvirate must obtain approval from the MA DEP to resume operations.

## 5. Emergency Procedures

### 5.1 GENERAL

Emergency procedures are the responsibility of the Emergency Coordinator or an alternate. Such procedures are specifically outlined and described in this plan. In the event of an emergency, the procedures outlined below will be followed:

1. If necessary, the Emergency Coordinator will activate internal facility alarms and/or communication systems to notify all facility personnel.
2. If the facility's personnel are needed, the Emergency Coordinator will notify the state and local agencies listed in [Section 7](#).

Due to the nature of the waste materials to be handled at the facility various hazards can result from an emergency situation. There are human exposure and environmental hazards associated with large and small spills. Inhalation of vapors from spilled materials may be harmful. Spilled material must be prevented from running offsite and/or from leaching into the ground or entering storm drains.

By following proper response procedures and taking proper precautions, these hazards will be greatly reduced.

This plan has been developed and organized in such a way to afford maximum guidance during an incident of any magnitude. The Emergency Coordinator and personnel employed by Triumvirate are thoroughly familiar with this document and will follow prescribed procedures in the event of an emergency. Should an emergency situation arise, the Emergency Coordinator will be notified immediately.

Subsequently, all facility personnel will be *immediately* notified where required. Police departments, federal, state, or local agencies, or contractors will be *immediately* notified if their assistance is required. The fire department will be *immediately* notified of all emergency situations.

## 5.2 SPILL/EMERGENCY PROCEDURES

In the event of a spill, leaking or release of any kind, the following general steps will be followed:

1. Determine source of leak or spill; immediately identify the character, exact source, amount, and area affected by the release.
2. Notify Emergency Coordinator or alternate (verbal communication or air horn).
3. Eliminate and continue to restrict all sources of ignition from spill area and areas downwind of the spill area.
4. Assessment: The Emergency Coordinator will assess possible hazards to human health and the environment.
5. Summon aid where required (spill cleanup contractor, etc., as required). Notify the Fire Department of all spills.
6. Don appropriate personal protective equipment as specified by the Emergency Coordinator.
7. Remedy and stop point source where possible (invert a drum leaking from the bottom, plug leaks in drums, put leaking drum inside recovery drum, etc.).
8. Dike spill with standard industrial absorbent (pads, pillows and/or booms) as required. Pay special attention to stopping flow from entering drains, sewers, etc.
9. Position ABC type extinguishers near immediate cleanup area.
10. Once flow is stopped, use portable pumps and/or vacuum truck to recover spilled material. Absorb non-pumpable spilled material with standard industrial absorbent. Use shovel to uniformly disperse absorbent over affected area.
11. For a spill on soil, all stained dirt will be removed and put into a recovery drum. (Note: A spill on soil is very unlikely because the entire loading/unloading area is constructed of concrete.)
12. Collect contaminated material (absorbent, rags, etc.)
13. Decontaminate boots, gloves, face shields, and other reusable protective equipment. Dispose of Tyvek suits and other non-reusable equipment in a recovery drum with contaminated absorbent.
14. Cleanup, restore or replace spill response equipment and return it to its original location.
15. Label recovery drums in accordance with all applicable hazardous waste rules and regulations and dispose of properly.
16. Practice proper hygiene procedures during personal decontamination.

## 5.3 FIRE/EXPLOSION EMERGENCY PROCEDURES

The Triumvirate Environmental (Arizona) Inc. facility has been designed and constructed to minimize the risk of fires. Smoking is prohibited in all areas of the facility. Only non-sparking tools (bung wrenches, etc.) are used to handle drums. Personnel are trained in the use of manual fire extinguishers. In addition, the hazardous waste management and process building and the lithium battery storage unit are equipped with automatic sprinkler systems.

### 5.3.1 Incipient Fire

The following steps outline the procedure for responding to a fire in the incipient stage:

1. Grab fire extinguisher, extinguish flames. If unable to immediately extinguish, close door and leave area. If not extinguished, follow procedures in [Section 5.2.3](#) for Large Fire (below)
2. Notify Emergency Coordinator.
3. Eliminate and continue to restrict all sources of ignition so the fire will not re-ignite.
4. While wearing boots, protective gloves, and eye protection, stop leak. Absorb spill with absorbent.
5. Follow spill cleanup procedures described in [Section 5.2](#).

### 5.3.2 Large Fire

The following steps outline the procedure for responding to a large fire:

1. If in the Waste Management and Processing Building, make sure fire doors close, activate a pull station and immediately exit from the building. An alarm will automatically be sent to the Casa Grande Fire Department.
2. If possible, place a follow up call to the Casa Grande Fire Department to give the particulars of the situation, under all conditions.
3. Notify Emergency Coordinator (if not already aware).
4. All personnel, except those designated by the Emergency Coordinator, shall evacuate the building upon sounding the alarm, via nearest exit.
5. The Emergency Coordinator is to determine the most accessible and safest route of approach to the fire, considering associated dangers and physical limitations. The Emergency Coordinator must also attempt to determine nature of burning material using knowledge of container contents.
6. Put on protective equipment, as required, and as directed by the Emergency Coordinator.
7. When fire department arrives, the Emergency Coordinator will stand by to assist the fire department.
8. When the fire is extinguished, remedy a point source to stop flow if it can be done without risk.
9. Absorb spilled material or pump to available containers or tank trucks. Use shovel to disperse standard industrial absorbent over affected area.
10. Collect contaminated material (absorbent, dry chemicals, rags, etc.) in 55-gallon recovery drums.
11. Decontaminate boots, gloves, goggles, face shields and other reusable emergency response equipment.
12. Cleanup, restore or replace emergency response equipment, and return to its original location.

13. Label and mark recovery drums in accordance with all applicable hazardous waste rules and regulations.
14. Observe proper hygiene procedures during personal decontamination.

#### **5.3.3 Response to Surface Water Contamination**

Emergencies that would create surface water contamination incidents at the Facility are unlikely because waste management activities occur within bermed areas. In addition, facility personnel will take immediate steps to divert and retain any spill that may occur outside of a bermed area using available absorbent pillows, media and sandbags, and other means of mitigating a release. In extreme cases, Triumvirate will also call for assistance from Emergency Response Contractors with emergency response staff, equipment, and spill cleanup capabilities.

#### **5.3.4 Response to Groundwater Contamination**

Contamination of groundwater by hazardous waste that is stored at the Facility is highly unlikely since any spill or leak would be detected long before a significant amount of waste would be able to escape and cause a threat to the groundwater. All waste containers are stored inside the Waste Management and processing building. The storage rooms have concrete slab floors underlain with a HDPE liner and full secondary containment. Hazardous waste storage tanks are located within secondary containment systems with concrete slab floors underlain with a HDPE liner and surrounded by concrete containment berms.

However, if a large spill did occur and threatened groundwater, Triumvirate would obtain the services of a qualified engineering firm to determine the extent of contamination and recommend remedial actions. Triumvirate would notify DEP immediately upon discovering evidence of groundwater contamination at the facility.

#### **5.3.5 Resumption of Operations**

Prior to resuming normal operations, the Emergency Coordinator is to ensure that all emergency equipment is inspected and returned to operating condition. The Emergency Coordinator will notify ADEQ and appropriate local authorities that all cleanup procedures are complete, and that all emergency equipment and systems listed in the Contingency Plan are fit for their intended use.

Following the spill cleanup operation, an assessment shall be made on the proper handling of the recovered material (including material in 55-gallon recovery drums). Laboratory tests shall be made, if necessary, to ensure proper handling and disposal of all material.

## **6. Evacuation Plan**

### **6.1 GENERAL**

Evacuation plan implementation requires prompt and deliberate action. The plan of action described in this section will be strictly adhered to unless, in the opinion of the on-scene Emergency Coordinator, minor modifications during an actual emergency would constitute a better- executed evacuation.

In the event that an incident poses an actual or serious potential threat to human health or safety, the Emergency Coordinator will evacuate the facility, or at a minimum the affected area. If the evacuation of outlying areas is deemed necessary, the Emergency Coordinator will advise the local police and fire department of the potential threat to human health. All exits will have the standard OSHA required exit signs, which will have letters with a contrasting colored background for easy identification in the event of an emergency.

### **6.2 EVACUATIONS**

#### **6.2.1 Signal to Start Evacuation**

The facility emergency alarm will be used to signal partial or total facility evacuation. Other warning methods (e.g., two-way radio) may also be utilized to warn onsite personnel of the nature of the incident. In the event of total facility evacuation, the Casa Grande Police and Fire Departments will be immediately notified.

#### **6.2.2 Evacuation Routes**

##### *6.2.2.1 Primary Evacuation Routes*

Employees, visitors, and contractors are instructed that their primary evacuation routes are the shortest distances to the rally point from their work areas that are not impeded by the emergency or other obstacles. These routes will vary depending on the emergency and the areas in which they are performing work.

##### *6.2.2.2 Alternate Evacuation Routes*

Employees, visitors, and contractors are further instructed and that if the shortest route to safety is impeded, their alternate evacuation routes are the next shortest distances to safety from their work areas that are not impeded and that will not lead them into the emergency situation.

Employees are instructed to assess their personal safety and, if their primary exit route is blocked or will lead them in the direction of the emergency, they are to use one of their alternate evacuation routes.

### 6.3 EVACUATION ASSEMBLY AREA

The designated Evacuation Assembly Area is the main entrance to the Facility located on South Commerce Drive See [Exhibit F-3](#).

### 6.4 EVACUATION PROCEDURES

1. The Emergency Coordinator will direct the evacuation.
2. All employees, visitors and contractors will immediately proceed to the Evacuation Assembly Area.
3. Personnel **WILL NOT** leave the designated Evacuation Assembly Area unless approval is given by the Emergency Coordinator.
4. The Emergency Coordinator will:
  - a. Ensure that all valves are closed, and pumps and motors are off, if possible.
  - b. Check all areas to ensure all personnel, contractors, truck drivers, and visitors are aware of the evacuation.
  - c. Conduct roll call at Evacuation Assembly Area to account for all plant personnel, office staff, contractors, truck drivers, and visitors.
  - d. Allow facility access to emergency personnel and vehicles only.
5. Upon resolution of the emergency situation, signal that the evacuation is over.

### 6.5 EVACUATION ROUTES

The location, nature, and magnitude of any given emergency can never be predicted. Therefore, Facility employees are instructed that their primary exit routes are the shortest distances to safety from their work areas that are not impeded by the emergency or other obstacles. These routes will vary depending on the emergency and the areas in which they are performing work.

Employees are further instructed and that if the shortest route to safety is impeded, their alternate evacuation routes are the next shortest distances to safety from their work areas that are not impeded and that will not lead them into the emergency situation.

Employees are instructed to assess their personal safety and, if their primary exit route is blocked or will lead them in the direction of the emergency, they are to use one of their alternate exit routes.

## 7. Emergency Telephone Numbers

Table EA-1 provided a list of emergency telephone number that may be used in the event of an emergency at the Facility.

**Table EA-1**  
**Emergency Telephone Numbers**

<b>Name</b>	<b>Telephone Number</b>
Casa Grande Fire Department/Paramedic/Ambulance	911/520-421-8777
Casa Grande Police Department	911/520-421-8700
Pinal County Sherriff's Department	911/520-866-6800
<b>Contracted Emergency Response Services</b>	<b>TBD</b>
Casa Grande Regional Medical Center	520-381-6300
Arizona Department of Public Safety	602-223-2000
Arizona Department of Environmental Quality	602-771-2330 or 800-234-5677
National Response Center	800-424-8802
Chemtrec	800-424-9300

## 8. Arrangements with Local Authorities

Prior to issuance of the permit, arrangements will be made with the Casa Grande Police and Fire Departments, and the Pinal County Sheriff's Department to familiarize them with:

1. The layout of the facility
2. Properties and hazards associated with the wastes handled at the facility
3. Places where facility personnel would normally be working
4. Entrances to the facility
5. Evacuation routes

The Casa Grande Fire Department will be asked to provide the following assistance during an emergency:

1. Primary emergency authority
2. Immediate response
3. Primary firefighting services
4. Rescue and emergency transport services
5. Communication support

The Casa Grande Police Department (and the Pinal County Sheriff's Department as an alternate) will be asked to provide the following assistance during an emergency:

1. Secondary emergency authority
2. Immediate response
3. Crowd control assistance

4. Security to affected area
5. Evacuation of surrounding areas, if required

Prior to issuance of the permit, arrangements will be made with the Casa Grande Regional Medical Center to familiarize their personnel with the properties of wastes handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or releases at the facility. The Casa Grande Regional Medical Center will be asked to primary medical services.

A copy of the Facility's Contingency Plan will be provided to the Casa Grande Police and Fire Departments, the Pinal County Sheriff's Department, and the Casa Grande Regional Medical Center.

Copies of the letter sent to the authorities and their responses will be maintained at the facility and will be included in [Appendix F-A](#).

A copy of the Facility's contingency plan has also been provided to:

1. **Security Service [TBD];**
2. Casa Grande Police Department;
3. Pinal County Sheriff's Department;
4. Arizona Department of Public Safety;
5. Casa Grande Fire Department;
6. Casa Grande Regional Medical Center;
7. **Contracted Emergency Response Services [TBD];**
8. Pinal County Local Emergency Planning Committee c/o Pinal County Office of Emergency Management; and
9. Arizona Emergency Response Commission c/o Arizona Division of Emergency Management.

## 9. Emergency Equipment

[Appendix F-B](#) contains a list of emergency equipment onsite available to respond to an imminent or actual emergency situation. The locations of the emergency equipment are depicted on [Exhibit F-4](#). Emergency equipment will be inspected according to the Facility's written inspection program, as well as after use, to ensure that it is cleaned and fit for its intended use. New or updated equipment may be purchased and installed as it becomes available. Equipment may be replaced with functionally equivalent equipment.

**Appendix F-A**  
**ARRANGEMENTS WITH LOCAL AUTHORITIES**  
**[PENDING]**

**Appendix F-B**  
**LIST OF EMERGENCY RESPONSE EQUIPMENT**

**Locations #1 - #6**  
**List of Emergency Response Equipment at each Location**

ITEM	CAPABILITIES	AVERAGE QUANTITY*
Chemical Protective Boots	Protect feet from chemical exposure	1 pair
Chemical Protective Gloves	Protect hand from chemical exposure	5 pairs
Chemical Protective Tyvek suit	Protects body from chemical exposure	3 suits
Face Shield	Protects face from chemical splashes	2 each
Respirator Cartridges	Provides back up supply to air purifying respirators	2 spare pair
Safety Glasses	Provides eye protection from minor impacts and minor chemical splashes	3 spare pair
Chemical/oil absorbent	Facilitates containment and cleanup of small to moderate chemical spills	one 30-gallon drum
Spill containment booms	Contains/absorbs large spills	3 each
Spill containment pillows	Contains/absorbs small spills and leaks	3 each
Overpack Drum	Provides containment for damaged containers of hazardous waste	1 each
Broom	Facilitate the cleanup and removal of used absorbent	1 each
Shovel	Facilitates the cleanup and removal of used absorbent	1 each
Dustpan	Facilitates the cleanup and removal of used absorbent	1 each
pH paper	Provides the capability to immediately check the pH of liquid spills	1 kit
Polypropylene liquid hand pump	Provide the capability to transfer liquids between containers	1 each
Tools: pliers, screwdriver, wire cutters, pipe wrench, bung wrench, crescent wrench, socket wrench, torque wrench	Facilitate the response and cleanup of spills	1 each

\*The actual quantity may vary depending on usage and time required to restock

### Additional Emergency Response Equipment Located at the Facility

ITEM	CAPABILITIES	AVERAGE QUANTITY*	LOCATION
Self-contained breathing apparatus (SCBA)	Provides supplied air for respiratory protection	four each	HWMP building office 113 (Location #7)
Air Purifying Respirators	Provides respiratory protection from dust, volatile organic compounds, and acid gases.	Provided to authorized hazardous waste personnel only	N/A
First Aid Kit/Station	Provides first aid supplies for minor injuries	1 each	HWMP building office 113 (Location #7)
Fire Extinguishers Class ABC	Controls/extinguishes incipient stage ABC fires	N/A	Located throughout the HWMP building and exterior areas of the Facility
Hard Hat	Provides head protection from minor impacts	Assigned to all authorized personnel	N/A
Plumbed Eye Wash Station	Provides emergency deluge water for eye flushing	7 each	Location #8
Safety Shower	Provides emergency deluge of water for rinsing the body	7 each	Location #8
Neutralization material - acids	Neutralizes small/medium acid spills	1 each	Location #4
Neutralization material - caustic	Neutralization small/medium caustic spills	1 each	Location #4
Photo ionization detector	Provides chemical monitoring	1 each	HWMP building office 113 (Location #7)
Emergency Lighting	Provides illumination during power outages	N/A	Permanent, hardwired fixtures located in the HWMP building and the exterior portions of the facility.
Decontamination Equipment	Facilitates the cleaning of reusable equipment spill response equipment	1 Splash pool, variety of hoses, 2 pump spray bottles	HWMP building office 113 (Location #7)
Drum Dolly	Facilitates the moving of drums	6 each	Varies
Forklifts	Facilitates the moving of palletized drums and individual drums	2 each	Varies

**Additional Emergency Response Equipment Located at the Facility**

<b>ITEM</b>	<b>CAPABILITIES</b>	<b>AVERAGE QUANTITY*</b>	<b>LOCATION</b>
Portable pumps	Facilitates the transfer of liquid wastes to containers or tanks	3 each	Varies
Pump Stations	Facilitates the transfer of liquid wastes to containers or tanks	3 each	Location #9
Vacuum Truck	Facilitates the recovery of medium/large spills of liquid wastes.	1 each	Varies

\*The actual quantity may vary depending on usage and time required to restock

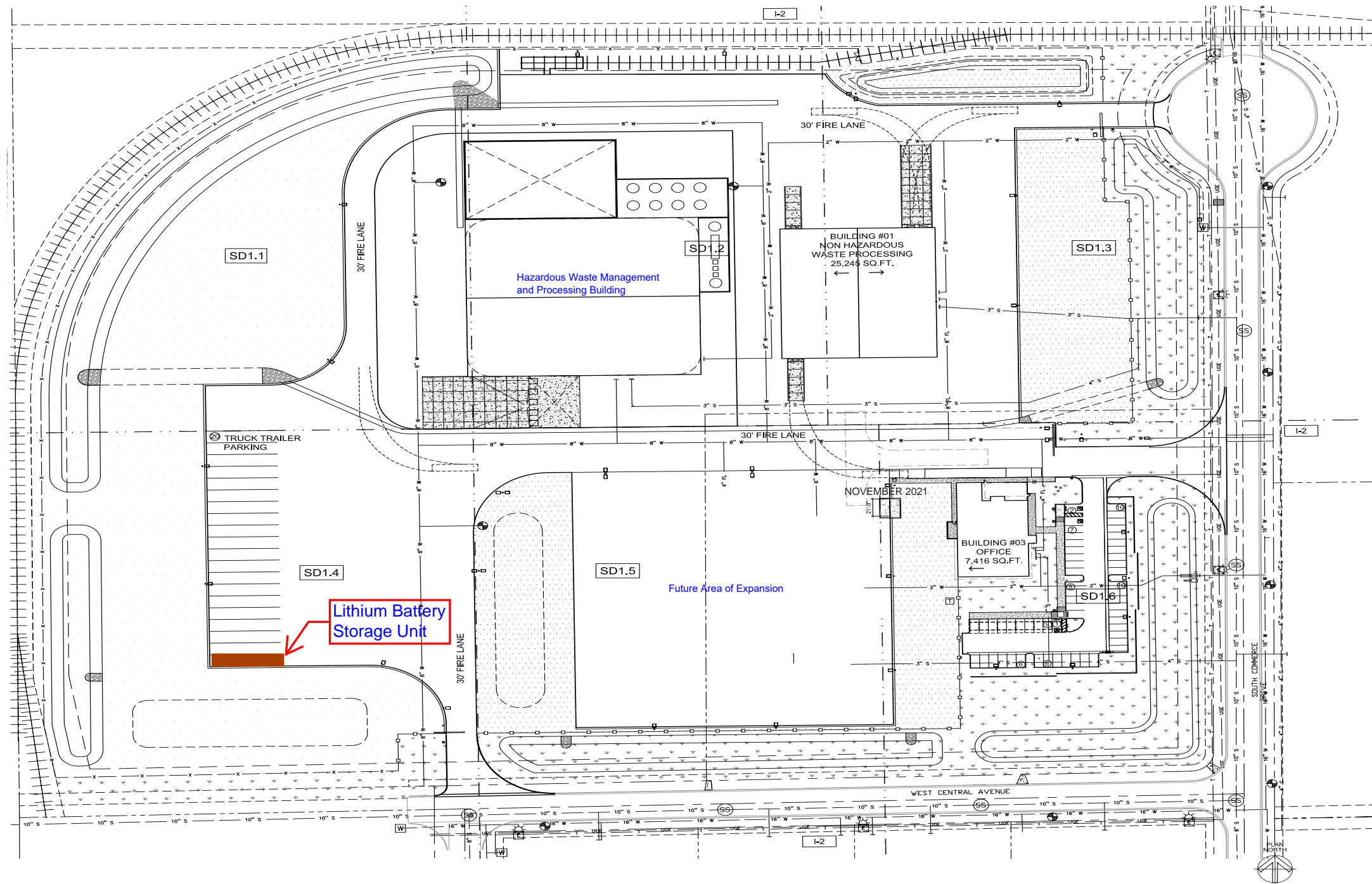
**Attachment F**  
**EXHIBITS**

## NOTES

- 



EXHIBIT F-1



NOTE  
BASE MAP SOURCE: DUX ARCHITECTS



NOT TO SCALE

**HALEY  
ALDRICH**

TRIUMVIRATE ENVIRONMENTAL (ARIZONA), INC.  
73 SOUTH COMMERCE DRIVE  
CASA GRANDE, ARIZONA

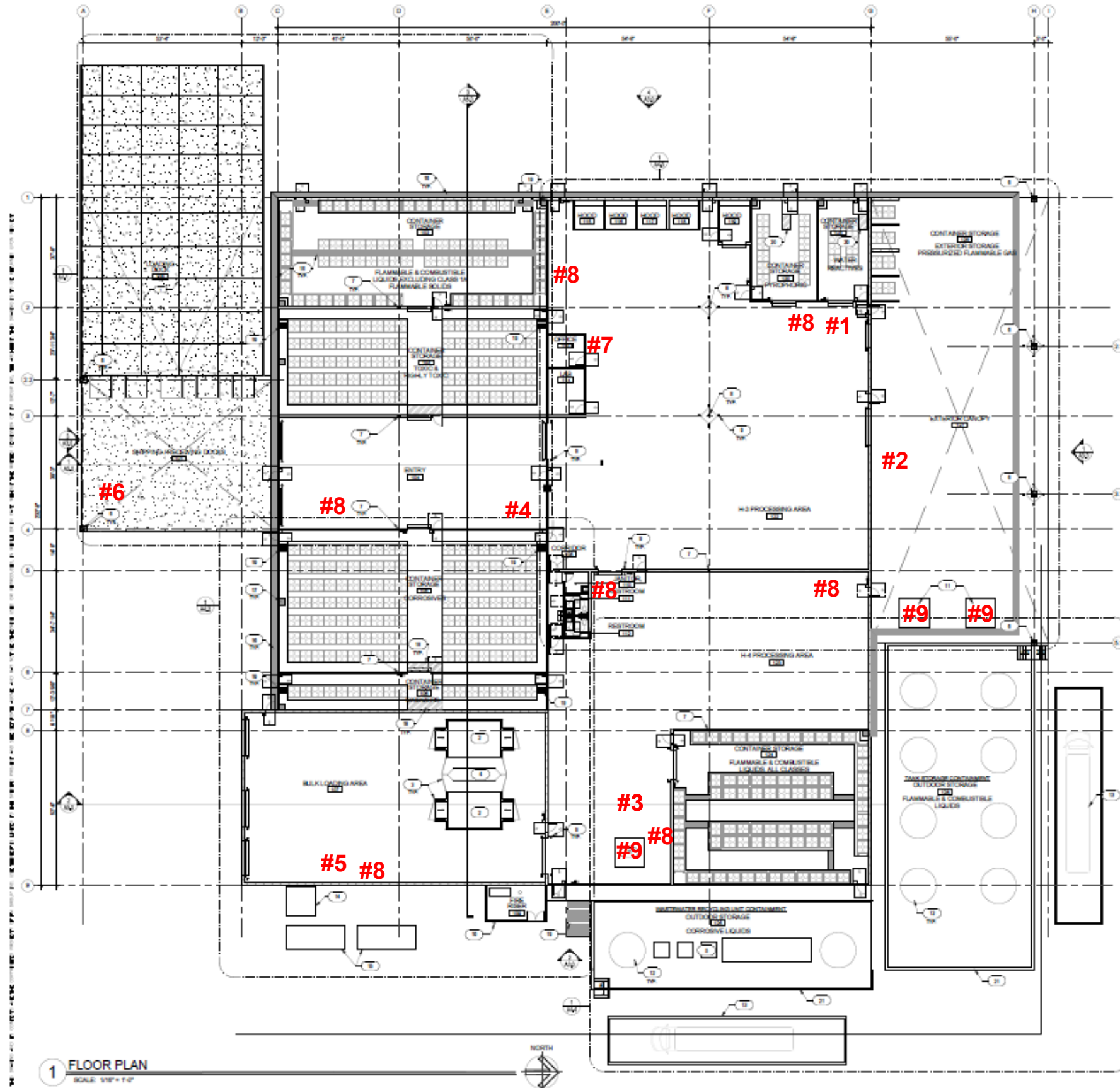
## FACILITY LAYOUT

December 2023

EXHIBIT F-2

Triumvirate Environmental (Arizona) Inc.  
Exhibit F-3  
Designated Evacuation Assembly Area





Locations #1 - #6  
List of Emergency Response Equipment at each Location

ITEM	CAPABILITIES	AVERAGE QUANTITY*
Chemical Protective Boots	Protect feet from chemical exposure	1 pair
Chemical Protective Gloves	Protect hand from chemical exposure	5 pairs
Chemical Protective Tyvek suit	Protects body from chemical exposure	3 suits
Face Shield	Protects face from chemical splashes	2 each
Respirator Cartridges	Provides back up supply to air purifying respirators	2 spare pair
Safety Glasses	Provides eye protection from minor impacts and minor chemical splashes	3 spare pair
Chemical/oil absorbent	Facilitates containment and cleanup of small to moderate chemical spills	one 30-gallon drum
Spill containment booms	Contains/absorbs large spills	3 each
Spill containment pillows	Contains/absorbs small spills and leaks	3 each
Overpack Drum	Provides containment for damaged containers of hazardous waste	1 each
Broom	Facilitate the cleanup and removal of used absorbent	1 each
Shovel	Facilitates the cleanup and removal of used absorbent	1 each
Dustpan	Facilitates the cleanup and removal of used absorbent	1 each
pH paper	Provides the capability to immediately check the pH of liquid spills	1 kit
Polypropylene liquid hand pump	Provide the capability to transfer liquids between containers	1 each
Tools: pliers, screwdriver, wire cutters, pipe wrench, bung wrench, crescent wrench, socket wrench,	Facilitate the response and cleanup of spills	1 each

Additional Emergency Response Equipment Located at the Facility

ITEM	CAPABILITIES	AVERAGE QUANTITY*	LOCATION
Self-contained breathing apparatus (SCBA)	Provides supplied air for respiratory protection	four each	HWMP building office 113 (Location #7)
Air Purifying Respirators	Provides respiratory protection from dust, volatile organic compounds, and acid gases.	Provided to authorized hazardous waste personnel only	N/A
First Aid Kit/Station	Provides first aid supplies for minor injuries	1 each	HWMP building office 113 (Location #7)
Fire Extinguishers Class ABC	Controls/extinguishes incipient stage ABC fires	N/A	Located throughout the HWMP building and exterior areas of the Facility
Hard Hat	Provides head protection from minor impacts	Assigned to all authorized personnel	N/A
Plumbed Eye Wash Station	Provides emergency deluge water for eye flushing	7 each	Location #8
Safety Shower	Provides emergency deluge of water for rinsing the body	7 each	Location #8
Neutralization material - acids	Neutralizes small/medium acid spills	1 each	Location #4
Neutralization material - caustic	Neutralization small/medium caustic spills	1 each	Location #4
Photo ionization detector	Provides chemical monitoring	1 each	HWMP building office 113 (Location #7)
Emergency Lighting	Provides illumination during power outages	N/A	Permanent, hardwired fixtures located in the HWMP building and the exterior portions of the facility.
Decontamination Equipment	Facilitates the cleaning of reusable equipment spill response equipment	1 Splash pool, variety of hoses, 2 pump spray bottles	HWMP building office 113 (Location #7)
Drum Dolly	Facilitates the moving of drums	6 each	Varies
Forklifts	Facilitates the moving of palletized drums and individual drums	2 each	Varies
Portable pumps	Facilitates the transfer of liquid wastes to containers or tanks	3 each	Varies
Pump Stations	Facilitates the transfer of liquid wastes to containers or tanks	3 each	Location #9
Vacuum Truck	Facilitates the recovery of medium/large spills of liquid wastes.	1 each	Varies

\*The actual quantity may vary depending on usage and time required to restock



NOTE: BASE MAP SOURCE: F. M GROUP INC.



TRIUMVIRATE ENVIRONMENTAL (ARIZONA), INC.  
73 SOUTH COMMERCE DRIVE  
CASA GRANDE, ARIZONA

LOCATIONS OF EMERGENCY  
RESPONSE EQUIPMENT

SCALE: NOT TO SCALE  
DECEMBER 2023

EXHIBIT F-4