Texas Commission on Environmental Quality

Application for a Medical Waste Registration

Diversified Waste Management

Registration TBD

Amarillo, Potter County, Texas

January 6, 2020

Prepared for

Diversified Waste Management, Inc.

13511 Indian Hill Road

Amarillo, Texas 79124-2637

Prepared by

Wade M. Wheatley, P.E., Managing Partner

GDS Associates, Inc.

Texas-Registered Engineering Firm No. F-4089

919 Congress Avenue, Suite 1110

Austin, Texas 78701

TCEQ-20789, Application for a Medical Waste Registration (09-28-18)
Texas Commission on Environmental Quality

Application for a Medical Waste Registration

Diversified Waste Management

Registration TBD

Amarillo, Potter County, Texas

January 6, 2020

Prepared for

Diversified Waste Management, Inc.

13511 Indian Hill Road

Amarillo, Texas 79124-2637

Prepared by

Wade M. Wheatley, P.E., Managing Partner

GDS Associates, Inc.

Texas-Registered Engineering Firm No. F-4089

919 Congress Avenue, Suite 1110

Austin, Texas 78701
Table of Contents

Section 1 — General Information ................................................. 1
  1.1 Facility Information (must match regulated entity information on Core Data Form) ................................................. 1
  1.2 Applicant Information .................................................... 1
  1.3 Governmental Entities Information .................................... 2
  1.4 Posting of Application on Website [30 TAC §326.69(e)] ........... 4
  1.5 Copy of Application for Public Viewing ................................ 4
  1.6 Notice of Opportunity to Request Public Meeting ..................... 5
  1.7 Application Fee ............................................................ 5
  1.8 Facility Supervisor’s License [30 TAC §326.71(c)] .................... 5

Section 2 — Facility Design Information .................................... 6
  2.1 Impact on Surrounding Area [30 TAC §326.71(a)(5)(A) & (B)] ... 6
  2.2 Transportation [30 TAC §326.71(e)] .................................. 7
  2.3 Floodplain and Wetlands [30 TAC §326.71(f)] ...................... 8
  2.4 Buffer Zones and Easement Protection [30 TAC §326.71(h)(3)] ..... 9
  2.5 Waste Management Unit Designs [30 TAC §326.71(i)] ............ 9
  2.6 Treatment Requirements [30 TAC §326.71(j)] ....................... 11

Section 3 — Facility Closure .................................................. 12
  3.1 Closure Plan [30 TAC §326.71(k)] .................................... 12
  3.2 Closure Cost Estimate [30 TAC §326.71(m)] ......................... 12

Section 4 — Site Operating Plan .............................................. 16
  4.1 General [30 TAC §326.75(a)] ......................................... 16
  4.2 Waste Acceptance [30 TAC §326.75(b)] ............................ 17
  4.3 Generated Waste [30 TAC §326.75(c)] .............................. 18
  4.4 Access Control [30 TAC §326.75(g)] ............................... 19
  4.5 Operating Hours [(30 TAC §326.75(i)] .............................. 19

Section 5 — Other Site Operating Plan, Financial Assurance, and Closure Requirements .................................................. 20

Section 6 — Applicant Certification and Signature ....................... 26
  Certification by Applicant or Authorized Signatory [30 TAC §305.44] .. 26
  Applicant’s Delegation of Signature Authority [30 TAC §305.43] .... 26

Section 7 — Property Owner Affidavit .................................... 27
  Affidavit [30 TAC §326.71(b)] ........................................... 27

Attachments ................................................................. 28

TCEQ-20789, Application for a Medical Waste Registration (09-28-18)
Section 1—General Information

1.1 Facility Information (must match regulated entity information on Core Data Form)

Facility Name: Diversified Waste Management
Regulated Entity Reference No. (if issued): RN
Physical or Street Address (if available): 13511 Indian Hill Road
City: Amarillo County: Potter State: TX Zip Code: 79124
(Area Code) Telephone Number: 806-371-0120 Email Address: jana@diversifiedwaste.net
Latitude (Degrees, Minutes, Seconds, or Decimal Degrees): N 35° 11’ 27.5”
Longitude (Degree, Minutes, Seconds, or Decimal Degrees): W 101° 59’ 46.4”
Activities Conducted at the Facility (check all that apply)
☒ Storage ☒ Treatment ☒ Transfer ☐ Other: 
Describe the location of the facility with respect to known or easily identifiable landmarks:
Approximately 0.8 miles east of the intersection of I-40 and Arnot Road (Exit 60); north of I-40 Frontage Road and south of Indian Hill Road.
Detail access routes from the nearest United States or state highway to the facility:
Less than 1 mile from the intersection of I-40 and Arnot Road (west of facility).

1.2 Applicant Information

The owner of a facility is the applicant, to whom the registration would be issued.

Owner of Facility (must match customer information on Core Data Form)

Owner Name: Diversified Waste Management, Inc.
Contact Person’s Name: Brandon Brown Title: President
Customer Reference No. (if issued): CN604112805
Mailing Address: 13511 Indian Hill Road
City: Amarillo County: Potter State: TX Zip Code: 79124
(Area Code) Telephone Number: 806-371-0120 Email Address: jana@diversifiedwaste.net
Operator of Facility (if not the same as Owner of Facility)
Operator Name: Same as Owner
Contact Person’s Name: ___________________ Title: ___________________
Customer Reference No. (if issued): CN_________________________
Mailing Address: ______________________________________________
City: _______________ County: _______________ State: _____ Zip Code: _____
(Area Code) Telephone Number: _______________ Email Address: _______________

Consultant (if applicable)
Firm Name: GDS Associates, Inc.
Texas Board of Professional Engineers Firm Registration Number: F-4089
Contact Person’s Name: Wade M. Wheatley, P.E. Title: Managing Director
Texas Board of Professional Engineers License Number (if applicable): 76710
Mailing Address: 919 Congress Ave. Suite 1110
City: Austin County: Travis State: TX Zip Code: 78701
(Area Code) Telephone Number: 512-494-0369 Email Address: wade.wheatley@gdsassociates.com

1.3 Governmental Entities Information

Texas Department of Transportation
District: Amarillo
District Engineer’s Name: Brian Crawford, P.E.
Street Address or P.O. Box: 5715 Canyon Drive
City: Amarillo County: Randall State: TX Zip Code: 79110
(Area Code) Telephone Number: 806-356-3200 Email Address: Brian.Crawford@txdot.gov

Local Government Authority Responsible for Road Maintenance (if applicable)
Agency Name: Potter County Road and Bridge Department
Contact Person’s Name: Sebastian Ysaguirre, Department Head
Street Address or P.O. Box: 2419 Willow Creek
City: Amarillo County: Potter State: TX Zip Code: 79107
Initial Application Submittal Date 1/6/2020

(Area Code) Telephone Number: 806-383-2273 Email Address: SebastiYsaguirre@co.potter.tx.us

City Mayor

City Name: City of Amarillo
City Mayor’s Name: Ginger Nelson
Mailing Address: 601 South Buchanan Street
City: Amarillo County: Potter State: TX Zip Code: 79101
(Area Code) Telephone Number: 806-378-3014 Email Address: gingernelson@amarillo.gov

Council of Governments (COG)

COG Name: Panhandle Regional Planning Commission
COG Representative’s Name: Kyle Ingham
COG Representative’s Title: Executive Director
Street Address or P.O. Box: POB 9257
City: Amarillo County: Moore State: TX Zip Code: 79105
(Area Code) Telephone Number: 806-372-3381 Email Address: kingham@theprpc.org

Local Government Jurisdiction

Is the facility located outside the territorial limits or extraterritorial jurisdiction of a city or town? (30 TAC §326.67(a)) Yes ☐ No ☒

If yes, and county requires a license, you must obtain a license from the county, and the county must send a copy of the license to the appropriate TCEQ regional office.

City Health Authority (if applicable)

Agency Name: City of Amarillo Public Health
Contact Person’s Name: 
Street Address or P.O. Box: 1000 Martin Road
City: Amarillo County: Potter State: TX Zip Code: 79107
(Area Code) Telephone Number: 806-680-8980 Email Address: 

County Judge Information

County Judge’s Name: Nancy Tanner
Street Address or P.O. Box: 500 South Fillmore, Suite 103
City: Amarillo County: Potter State: TX Zip Code: 79101
Initial Application Submittal Date 1/6/2020

(Area Code) Telephone Number: 806-379-2250 Email Address: _______________________

**County Health Authority (if applicable)**

Agency Name: City of Amarillo Public Health

Contact Person’s Name: ____________________________

Street Address or P.O. Box: 1000 Martin Road

City: Amarillo County: Potter State: TX Zip Code: 79101

(Area Code) Telephone Number: 806-379-2250 Email Address: _______________________

**State Representative**

House District Number: 87

Representative’s Name: Representative Four Price

District Office Address: 500 S. Taylor Street

City: Amarillo County: Potter State: TX Zip Code: 79101

(Area Code) Telephone Number: 806-374-8787 Email Address: _______________________

**State Senator**

Senate District Number: 31

State Senator’s Name: Senator Kel Seliger

District Office Address: 410 S. Taylor, Suite 1600

City: Amarillo County: Potter State: TX Zip Code: 79101

(Area Code) Telephone Number: 806-374-8994 Email Address: _______________________

**1.4 Posting of Application on Website [30 TAC §326.69(e)]**

Provide the web address (URL) of the publicly accessible internet website where the application and all revisions will be posted:

https://www.gdsassociates.com/txprojects/

**1.5 Copy of Application for Public Viewing**

Name of the Public Place: Southwest Amarillo Public Library

Physical Address: 6801 Southwest 45th Street

City: Amarillo County: Potter State: TX Zip Code: 79109

(Area Code) Telephone Number: (806) 359-2094
1.6 Notice of Opportunity to Request Public Meeting

Notice Requirement

The owner or operator is required by 30 TAC §326.73 to provide notice of the opportunity to request a public meeting, and to post notice signs.

Indicate the party responsible for publishing notice:

☐ Applicant (Owner or Operator) ☑ Consultant

1.7 Application Fee

Indicate how the application fee was paid. Attach a photocopy of the check or a copy of the electronic payment receipt.

Check ☐ Online ☑

If paid online, e-Pay confirmation number: 582EA000370536__________________________

1.8 Facility Supervisor’s License [30 TAC §326.71(c)]

Indicate the type of license that the Solid Waste Facility Supervisor (as defined in 30 TAC Chapter 30), will obtain prior to commencing facility operations:

Class A ☐ Class B ☑

(either a Class A or a Class B)
Section 2—Facility Design Information

2.1 Impact on Surrounding Area [30 TAC §326.71(a)(5)(A) & (B)]

This section addresses the facility’s impacts on cities, communities, groups of property owners, or individuals (attach additional pages to answer the following questions, if necessary):

Describe the character of the surrounding area land uses within one mile of the facility:

Information about the character of surrounding land uses are shown on the Land Use Map, presented as Attachment 3. This Facility will be located within the Extraterritorial Jurisdiction of the City of Amarillo. Land uses immediately adjacent to the Facility are industrial and agricultural. The primary land use within one mile of the Facility is agricultural with parcels of industrial, commercial, residential, and governmental uses. Activities associated with the parcels within one mile of the Facility include, but are not limited to, agriculture, transportation and vehicle maintenance, landscaping equipment staging, metal plating, gas station services, residential, and county services.

Identify growth trends within five miles of the facility with directions of major development:

The population of the City of Amarillo grew at an annual rate of 0.53% during 2017 and an annual rate of 0.00% during 2018 and for the Amarillo Metro Area at an annual rate of 0.61% during 2017 and 0.37% during 2018, according to population estimates published by the United States Census Bureau. Additionally, the population of Potter County declined at a rate of -0.25% during 2017 and by -0.72% during 2018, according to the United States Census Bureau. Based on historical aerial imagery, directions of major residential and commercial development appears to be to the west, southwest, southeast, and east of the proposed Facility.

Indicate the approximate number of residences and other uses (e.g. schools, churches, cemeteries, historic structures and commercial sites, etc.) within one mile of the facility:

As illustrated on the Land Use Map, presented as Attachment 3, within one mile of the proposed Facility, there are no schools, cemeteries, historic structures, day-care facilities, or hospitals recorded. There are approximately 50 residences within one mile of the Facility, not including an RV park located approximately 0.7 miles to the southwest that has the capacity for approximately 200 RVs. The nearest residences are single-family houses located within 0.1 miles west and east of the site. Additionally, a single-family home subdivision is located approximately 1 mile east of the site and the land approximately 0.4 miles north of the proposed Facility is currently being developed as a single-family house subdivision with approximately 90 lots. The Potter County Justice of Peace is located within 0.1 miles south of the proposed Facility and there are two commercial establishments located approximately 0.7 miles west. The predominant land use designation within one mile of the proposed Facility is agricultural.
Indicate the distance to the nearest residence(s): **350** feet □ miles

**Provide directions to the nearest residence(s)**

Single family house property boundary is located approximately 350 feet west of the registration boundary. The nearest residential structure is approximately 630 feet west of the closest waste management area.

Indicate the distance to the nearest commercial establishment(s): **0.7** □ feet □ miles

**Provide directions to the nearest commercial establishment(s):**

The nearest commercial establishments are approximately 0.7 miles to the west of the proposed Facility, as illustrated on the Land Use Map, presented as **Attachment 3**.

---

### 2.2 Transportation [30 TAC §326.71(e)]

**Access Roads**

Complete Table 1 regarding the roads that will be used to access the site.

**Table 1. Roads That Will be Used to Access the Site.**

The main roadways located within one mile of the Facility that provide access to the Facility are listed in the table below.

<table>
<thead>
<tr>
<th>Name of Road</th>
<th>Surface Type and Number of Lanes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interstate 40 (I-40)</td>
<td>Asphalt, 4-lane, divided</td>
</tr>
<tr>
<td>I-40 Frontage Road</td>
<td>Asphalt, 2-lane, undivided</td>
</tr>
<tr>
<td>Arnot Road</td>
<td>Asphalt, 2-lane, undivided</td>
</tr>
<tr>
<td>Hope Road</td>
<td>Asphalt, 2-lane, undivided</td>
</tr>
<tr>
<td>Dowell Road</td>
<td>Asphalt, 2-lane, undivided</td>
</tr>
<tr>
<td>Indian Hill Road</td>
<td>Asphalt, 2-lane, undivided</td>
</tr>
</tbody>
</table>

**Daily Traffic Volume**

Complete Table 2 regarding existing and expected volume of vehicular traffic on access roads within one mile of the facility, and the projected volume of traffic expected to be generated by the facility on access roads within one mile of the facility.
Table 2. Traffic Volume.

<table>
<thead>
<tr>
<th>Road</th>
<th>Volume (Vehicles per Day)</th>
<th>Projected Vehicle Traffic Generated by Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>N I-40 Frontage Rd., E of Arnot Rd.</td>
<td>1,750</td>
<td>+30</td>
</tr>
<tr>
<td>N I-40 Frontage Rd., W of Arnot Rd.</td>
<td>1,931</td>
<td>+27</td>
</tr>
<tr>
<td>S I-40 Frontage Rd., E of Arnot Rd.</td>
<td>2,316</td>
<td>+17</td>
</tr>
<tr>
<td>S I-40 Frontage Rd., W of Arnot Rd.</td>
<td>1,315</td>
<td>-8</td>
</tr>
<tr>
<td>S I-40 Frontage Rd., W of Hope Rd.</td>
<td>1,318</td>
<td>-8</td>
</tr>
<tr>
<td>N I-40 Frontage Rd., W of Hope Rd.</td>
<td>2,185</td>
<td>-11</td>
</tr>
<tr>
<td>N I-40 Frontage Rd., E of Dowell Rd.</td>
<td>709</td>
<td>+10</td>
</tr>
<tr>
<td>Dowell Rd.</td>
<td>460 (2015)</td>
<td>0</td>
</tr>
</tbody>
</table>

I-40, west of facility annual average daily traffic: 19,850
I-40, east of facility annual average daily traffic: 22,173

Describe the source of or method used to obtain the volumes (attach additional pages to answer this question if necessary):

The Texas Department of Transportation (TXDOT) provides annual average daily traffic counts and growth statistics through the Traffic Count Database System (TCDS) and 2019 District Traffic Web Viewer.

If traffic volume was determined by counts in the field, indicate the locations where the counts were conducted (attach additional pages to answer this question if necessary):

NA

2.3 Floodplain and Wetlands [30 TAC §326.71(f)]

In accordance with §326.71(f)(1) & (2), this existing facility has been constructed, maintained, and operated to manage run-on and run-off during the peak discharge 25-year rainfall event and will prevent the off-site discharge of all waste and feedstock material. This facility will continue to maintain and operate in this manner. Surface water drainage in and around the facility will be controlled to minimize surface water running onto, into, or off the treatment area.

Will the facility be located within a 100-year floodplain?

Yes ☐ No ☑

Identify the floodplain zone Zone X

Attach a copy of the Federal Emergency Management Administration administrator (FEMA) flood map for the area.
A copy of the FEMA flood map for the area is presented as Attachment 13.

**If the facility will be within a 100-year floodplain, attach documentation demonstrating that the facility is designed and will be operated in a manner to prevent washout of waste during a 100-year storm event, or that the facility has obtained a conditional letter of map amendment from the FEMA.**

**Will the facility be located in wetlands?**

Yes ☐ No ☒

If yes, attach documentation to the extent required under Clean Water Act, §404 or applicable state wetlands laws.

### 2.4 Buffer Zones and Easement Protection [30 TAC §326.71(h)(3)]

**Is the buffer zone in any location at the facility less than 25 feet wide?**

Yes ☐ No ☒

If yes, describe your alternative buffer zone and how it will allow access for emergency response and maintenance (attach additional pages to answer this question if necessary):

### 2.5 Waste Management Unit Designs [30 TAC §326.71(i)]

**Waste Management Unit Details**

List each waste management unit in Table 3. Include attachments documenting manufacturer specifications.

Manufacturer specifications for the equipment listed in Table 3 are provided as Attachment 19.

**Table 3. Design Details and Manufacturer Specifications for Waste Management Units.**

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Minimum Number of Units</th>
<th>Design Details</th>
<th>Approximate Dimensions</th>
<th>Approximate Capacity per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark-Castello Autoclave Processing Unit</td>
<td>1 (up to 2)</td>
<td>Fully insulated, double door</td>
<td>24'-0” L 6'-1” W 5'-3” H</td>
<td>1,125 pounds or 7.5 cubic yards</td>
</tr>
<tr>
<td>Hurst Boiler w/ feedwater system (or equivalent)</td>
<td>1</td>
<td>100 HP, 150 psig, 3.3 MBtu/hr</td>
<td>12'-8” L 6'-0” W 6'-3” H</td>
<td>564 gallons 100-gallon feedwater system</td>
</tr>
<tr>
<td>Unit Type</td>
<td>Minimum Number of Units</td>
<td>Design Details</td>
<td>Approximate Dimensions</td>
<td>Approximate Capacity per Unit</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------------------------</td>
<td>---------------------------------</td>
<td>-----------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>ARE Standard Flow Thru Washer (or equivalent)</td>
<td>1</td>
<td>Conveyor belt loading, wash area 36” W x 48” H</td>
<td>31’-0” L 7’-0” W 7’-0” H</td>
<td>370 square feet</td>
</tr>
<tr>
<td>Vecoplan Shredder (or equivalent)</td>
<td>1</td>
<td>Rotary-style or knife-style</td>
<td>10’-7” L 9’-7” W 5’-0” H</td>
<td>6.4 cubic yards</td>
</tr>
<tr>
<td>WasteEquip Compactor (or equivalent)</td>
<td>1</td>
<td>Self-Contained Compactor</td>
<td>20’-0” L 8’-6” W 8’-4” H</td>
<td>25 cubic yards</td>
</tr>
<tr>
<td>3,000-gallon Wastewater Tank (or equivalent)</td>
<td>1</td>
<td>Polyethylene, Plastic, Double-walled, Storage Tank</td>
<td>8’-6” Diameter 12’-0” H</td>
<td>3,000 gallons</td>
</tr>
<tr>
<td>Endura-Veyor Conveyor (or equivalent)</td>
<td>1</td>
<td>Slider bed belt conveyor, 2 HP, 120 feet/min.</td>
<td>20’-0” L 2’-3” W 1’-5” H</td>
<td>254 pounds</td>
</tr>
<tr>
<td>Mark-Costello Waste Cart Tipper (or equivalent)</td>
<td>1</td>
<td>10 HP</td>
<td>9’-2” L 6’-4” W 13’-5” H</td>
<td>4,500 pounds</td>
</tr>
<tr>
<td>Trench Drain – General Construction Information</td>
<td>1</td>
<td>Sub-grade, covered by grate, approx. slope: 1/4”:12”</td>
<td>55’-0” L (total: 70’-0”) 1’-0” W 0’-11” H</td>
<td>620 gallons</td>
</tr>
</tbody>
</table>

**Foundations and Supports**

**Provide a generalized description of construction materials for slab and subsurface supports of all storage and processing components (attach additional pages to answer this question if necessary):**

Medical waste processing, transfer, and storage will be conducted inside of an existing building on-site. The building is supported on a concrete slab-on-grade foundation capable of supporting the building, including processing and waste storage units, and proposed operations. The waste processing units will sit directly on the building foundation.

**Contaminated Water Management**

**Describe how storage and processing areas will be designed to control and contain spills and prevent contaminated water from leaving the facility. For unenclosed containment areas, also account for precipitation from a 25-year, 24-hour storm (attach additional pages to answer this question if necessary):**
Medical waste processing units will be controlled and contained in an enclosed building. Therefore, potential spills and contaminated water are prevented from leaving the facility. Within the enclosed building, trench drains will be used to manage wastewater and direct wastewater to an on-site storage tank with secondary containment. Accumulated wastewater will be disposed off-site at a TCEQ-authorized facility.

### 2.6 Treatment Requirements [30 TAC §326.71(j)]

Attach a written procedure for the operation and testing of any equipment used, and for the preparation of any chemicals used in treatment.

See Attachment 9 for Treatment Requirements and Procedures.
Section 3—Facility Closure

3.1 Closure Plan [30 TAC §326.71(k)]

The operator must comply with the closure requirements listed in 30 TAC §326.71(k).

List other activities that the facility will conduct during closure, if any (attach additional pages to answer this question if necessary):

Upon closure, all waste, waste residues, and any recovered materials will be removed from the Facility by the owner or operator. Waste processing units will be decontaminated, dismantled and removed from the site. The owner or operator will evacuate all material on-site to an authorized facility and disinfect all processing areas and post-processing areas. The owner or operator will complete closure of the facility within 180 days following the last acceptance of processed or unprocessed materials, unless otherwise directed or approved in writing by the executive director. No later than 90 days prior to the initiation of Facility closure, the owner or operator will, through a public notice in the newspaper(s) of largest circulation in the vicinity of the Facility, provide public notice for final Facility closure. The notice will include the name, address, and physical location of the Facility; the permit, registration, or notification number, as appropriate, and the number of copies of the approved final closure and post-closure plans for public access and review. The owner or operator will also provide written notification to the executive director of the intent to close the Facility and will place this notice of intent in the operating record. In addition to notification of the executive director, a minimum of one sign will be posted at the main entrance and all other frequently used points of access for the Facility, notifying all persons who may utilize the facility of the date of closing for the entire Facility and the prohibition against further receipt of waste materials after the stated date. Further, suitable barriers will be installed at all gates and access points to adequately prevent the unauthorized dumping of waste at the closed Facility. Within ten days of completing final closure activities at the Facility, the owner and operator will submit a certification, signed by an independent licensed professional engineer, verifying that final Facility closure has been completed in accordance with the approved Closure Plan. The owner or operator will submit to the executive director all applicable documentation necessary for certification of final Facility closure. Upon final closure of this Facility, the owner or operator will request a voluntary revocation of the facility registration.

3.2 Closure Cost Estimate [30 TAC §326.71(m)]

Provide itemized closure cost estimates in Table 4. The cost estimates must meet the requirements listed in 30 TAC §326.71(m).

The closure cost estimates are in accordance with 30 TAC §326.71(m). Closure cost estimates provided are based on hiring a third party that is not affiliated with the owner or operator. The closure cost estimates are based on phased development of the Facility.

Phase I: One processing unit (autoclave), one boiler, one shredder, one compactor, one container wash system, and one wastewater container; as described in Section 2.5 of this
application. Maximum amount of waste to be received daily: 18 tons /day and maximum amount of waste to be stored at any point in time: 36 tons.

Phase II: Two processing units (autoclave), one boiler, one shredder, one compactors, one container wash system, and one wastewater container; as described in Section 2.5 of this application. Maximum amount of waste to be received daily: 36 tons /day and maximum amount of waste to be stored at any point in time: 72 tons.

Attach documents detailing any additional unit closure costs not itemized above. Enter the total of those additional unit closure costs on line 13 of the closure cost worksheet in Table 4.

Table 4. Closure Cost Estimates Worksheet.

Phase I:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item Description</th>
<th>Unit of Measurement</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Site Evaluation and Engineering Review</td>
<td>Hour</td>
<td>10</td>
<td>$145</td>
<td>$1,450</td>
</tr>
<tr>
<td>2</td>
<td>Bid Document and Procurement</td>
<td>Hour</td>
<td>8</td>
<td>$90</td>
<td>$720</td>
</tr>
<tr>
<td>3</td>
<td>Contract Award and Administration</td>
<td>Hour</td>
<td>10</td>
<td>$120</td>
<td>$1,200</td>
</tr>
<tr>
<td>4</td>
<td>Clean-Up, Removal and Transport of Waste Stored On-Site</td>
<td>Ton</td>
<td>36</td>
<td>$225</td>
<td>$8,100</td>
</tr>
<tr>
<td>5</td>
<td>Disposal of Waste at an Authorized Facility</td>
<td>Ton</td>
<td>36</td>
<td>$35</td>
<td>$1,260</td>
</tr>
<tr>
<td>6</td>
<td>Waste Treatment</td>
<td>Ton</td>
<td>36</td>
<td>$235</td>
<td>$8,460</td>
</tr>
<tr>
<td>7</td>
<td>Process Units Dismantling</td>
<td>Hour</td>
<td>24</td>
<td>$70</td>
<td>$1,680</td>
</tr>
<tr>
<td>8</td>
<td>Wash Down and Disinfection of Facility and Processing Units</td>
<td>Hour</td>
<td>24</td>
<td>$70</td>
<td>$1,680</td>
</tr>
<tr>
<td>9</td>
<td>Vector Control</td>
<td>Lump Sump</td>
<td>1</td>
<td>$120</td>
<td>$120</td>
</tr>
<tr>
<td>10</td>
<td>Site Security</td>
<td>Lump Sump</td>
<td>1</td>
<td>$120</td>
<td>$120</td>
</tr>
<tr>
<td>11</td>
<td>Signs, Newspaper Notice and TCEQ Notice</td>
<td>Lump Sump</td>
<td>1</td>
<td>$3,180</td>
<td>$3,180</td>
</tr>
</tbody>
</table>
### Phase I:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item Description</th>
<th>Unit of Measurement</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Facility Inspection and Closure Certification by Licensed Engineer</td>
<td>Lump Sump</td>
<td>1</td>
<td>$1,180</td>
<td>$1,180</td>
</tr>
<tr>
<td>13</td>
<td>Removal and Disposal of 3,000-gallon Tank &amp; 615 gallons in Trench Drain</td>
<td>Gallon</td>
<td>3,615</td>
<td>$0.65</td>
<td>$2,350</td>
</tr>
<tr>
<td>14</td>
<td>Storage and Processing Unit Closure Costs Subtotal</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>$31,500</td>
</tr>
<tr>
<td>15</td>
<td>Contingency Cost (15%)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>$4,725</td>
</tr>
<tr>
<td>16</td>
<td>Total Closure Cost Estimate</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>$36,225</td>
</tr>
</tbody>
</table>

### Phase II:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item Description</th>
<th>Unit of Measurement</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Site Evaluation and Engineering Review</td>
<td>Hour</td>
<td>12</td>
<td>$145</td>
<td>$1,740</td>
</tr>
<tr>
<td>2</td>
<td>Bid Document and Procurement</td>
<td>Hour</td>
<td>8</td>
<td>$90</td>
<td>$720</td>
</tr>
<tr>
<td>3</td>
<td>Contract Award and Administration</td>
<td>Hour</td>
<td>10</td>
<td>$120</td>
<td>$1,200</td>
</tr>
<tr>
<td>4</td>
<td>Clean-Up, Removal and Transport of Waste Stored On-Site</td>
<td>Ton</td>
<td>72</td>
<td>$225</td>
<td>$16,200</td>
</tr>
<tr>
<td>5</td>
<td>Disposal of Waste at an Authorized Facility</td>
<td>Ton</td>
<td>72</td>
<td>$35</td>
<td>$2,520</td>
</tr>
<tr>
<td>6</td>
<td>Waste Treatment</td>
<td>Ton</td>
<td>72</td>
<td>$235</td>
<td>$16,920</td>
</tr>
<tr>
<td>7</td>
<td>Process Units Dismantling</td>
<td>Hour</td>
<td>28</td>
<td>$70</td>
<td>$1,960</td>
</tr>
<tr>
<td>8</td>
<td>Wash Down and Disinfection of Facility and Processing Units</td>
<td>Hour</td>
<td>28</td>
<td>$70</td>
<td>$1,960</td>
</tr>
<tr>
<td>9</td>
<td>Vector Control</td>
<td>Lump Sump</td>
<td>1</td>
<td>$120</td>
<td>$120</td>
</tr>
<tr>
<td>Item No.</td>
<td>Item Description</td>
<td>Unit of Measurement</td>
<td>Quantity</td>
<td>Unit Cost</td>
<td>Total Cost</td>
</tr>
<tr>
<td>---------</td>
<td>----------------------------------------------------------------------------------</td>
<td>---------------------</td>
<td>----------</td>
<td>-----------</td>
<td>------------</td>
</tr>
<tr>
<td>10</td>
<td>Site Security</td>
<td>Lump Sump</td>
<td>1</td>
<td>$120</td>
<td>$120</td>
</tr>
<tr>
<td>11</td>
<td>Signs, Newspaper Notice and TCEQ Notice</td>
<td>Lump Sump</td>
<td>1</td>
<td>$3,180</td>
<td>$3,180</td>
</tr>
<tr>
<td>12</td>
<td>Facility Inspection and Closure Certification by Licensed Engineer</td>
<td>Lump Sump</td>
<td>1</td>
<td>$1,180</td>
<td>$1,180</td>
</tr>
<tr>
<td>13</td>
<td>Removal and Disposal of 3,000-gallon Tank &amp; 615 gallons in Trench Drain</td>
<td>Gallon</td>
<td>3,615</td>
<td>$0.65</td>
<td>$2,350</td>
</tr>
<tr>
<td>14</td>
<td>Storage and Processing Unit Closure Costs Subtotal</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>$50,170</td>
</tr>
<tr>
<td>15</td>
<td>Contingency Cost (15%)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>$7,525</td>
</tr>
<tr>
<td>16</td>
<td>Total Closure Cost Estimate</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>$57,695</td>
</tr>
</tbody>
</table>
## Section 4—Site Operating Plan

### 4.1 General [30 TAC §326.75(a)]

Provide the function and minimum qualifications for each category of key personnel to be employed at the facility including supervisory personnel in the chain of command (attach additional pages to answer this question if necessary):

The facility will employ three categories of key personnel for day-to-day operations. These categories include:

**Manager** - The Treatment Facility is managed by a Facility Manager; who is directly responsible to the owner or operator. The Facility Manager oversees the responsibilities for the "day to day" operations of the Facility and is experienced and trained in the handling and disposal of medical waste, including the actual handling of the medical waste (transfer and storage operations); the medical waste processing and treatment operations; the regulatory documentation of the operation; the physical and environmental safety of the Facility; and safety training of Facility personnel. The Facility Manager will receive at least 16 contact hours (2 days) per year of educational classes relating to regulatory and industry procedures concerning medical waste handling, disposal, and safety issues. The classes are sponsored by waste industry organizations, regulatory agencies, and professional engineering/management societies. The Facility Manager will be required to have at a minimum a Class B License in accordance with 30 TAC §30.213.

The Facility Manager hires all necessary personnel to work at the Facility. The various requirements of the Facility will include personnel involved with the collection, handling, transfer, treatment, processing, and weighting of the medical waste; and office personnel involved with regulatory documentation and general office functions. The number of personnel working at the Facility at any given time will vary with the quantity of waste to be handled.

**Waste Handlers** - The Waste Handlers function in daily operations is to control facility access and screens incoming waste. The Waste Handler operates the facility in compliance with the TCEQ-approved Site Operating Plan as well as the company’s Standard Operating Procedures which do not require a TCEQ authorization. Items under the Waste Handler’s purview includes but is not limited to: equipment operation, manages waste flow, container flow and facility housekeeping. The Waste Handler may act as Records Administrator or Manager if the need warrants. The minimum qualification for Waste Handlers is general facility and regulatory knowledge.

**Records Administrators** - The Records Administrator controls recordkeeping and reporting. Assists with maintaining the facility operating record as described in §326.75(e). The Records Administrator may act as the Waste Handler or Manager if the need warrants. The minimum qualification for Records Administrators is general facility and regulatory knowledge.

**Describe the procedures that the operating personnel will follow for the detection and prevention regarding the receipt of prohibited wastes, including random**
inspections of packaging of incoming loads, records, and training (attach additional pages to answer this question if necessary):

Various procedures to detect and control the receipt of prohibited wastes will be implemented at the facility. These procedures include but are not limited to: 1) random inspections of packaging for incoming loads; 2) recording inspections and inspection results; 3) training of facility personnel responsible for inspecting or observing loads to recognize prohibited waste and informing facility customers of prohibited wastes. Facility personnel may inform waste transportation drivers of facility requirements and screening for prohibited wastes. Information regarding the prohibited wastes may be posted on facility signs or provided as a written list to customers and drivers.

If facility personnel identify prohibited waste or portions of prohibited waste within a collection vehicle, that vehicle or portions of waste within that vehicle will be rejected and immediately sent back to the waste generator.

4.2 Waste Acceptance [30 TAC §326.75(b)]

Describe all sources and characteristics of medical wastes to be received for storage and processing or disposal (attach additional pages to answer this question if necessary):

The proposed Type V Medical Waste Processing Facility will accept and process medical waste as defined in §326.3(23), including animal waste, bulk blood, bulk human blood, bulk human body fluids, pathological waste, and sharps or other healthcare-related items that have come into contact with body fluids and/or blood. Additionally, the facility may accept, and process trace chemotherapeutic waste and non-hazardous pharmaceutical waste. Regulated hazardous wastes will not be accepted or processed at the Facility. Untreated waste in storage for 72 hours or more will be refrigerated. Acceptable medical waste will generally originate from health care institutions, hospitals, physician’s offices, clinics, labs, and veterinary facilities. All medical waste will be transported by either the owner or operator or other properly registered haulers per §326.53. Waste received by the Facility will be accompanied by an approved manifest identifying the generator, address of origin, and number of containers.

Trained staff will inspect each load of incoming waste to prevent prohibited wastes from being accepted at the Facility. If unacceptable wastes are identified (such as radioactive or hazardous) via inspection or detection equipment, they will be refused and returned to their place of origin for proper handling.

There are no waste constituents or characteristics that could be a limiting parameter that may impact or influence the design and operation of this Facility, thus no parameter limitations are specified herein.

Additionally, the owner/operator will allow small quantity generators (SQGs) [generators of less than 50 pounds of untreated medical waste per month] to purchase United States Department of Transportation-approved disposable and reusable sharps containers from the owner/operator. Purchased containers may be used for transporting used or unused sharps to the Facility for processing and container treatment services. The SQGs may transport sharps, sharps containers, and medical waste to the Facility for treatment and disposal after acknowledging and signing an owner/operator-provided form stating all accepted and prohibited wastes of the Facility. This waste stream will be screened and accepted or rejected...
as described above. The visitor sign-in location and SQG unloading area ("Citizens’ Collection Station") are illustrated on Attachment 2B.

**Describe the sources and characteristics of recyclable materials, if applicable, to be received for storage and processing (attach additional pages to answer this question if necessary):**

Sharps containers will be collected and transported from healthcare providers to the Facility for storage and processing. Sharps containers will be emptied, and the contents will be stored and processed. Once emptied, the sharps containers will be stored and washed before they are returned to the generator.

<table>
<thead>
<tr>
<th>Maximum amounts of waste</th>
<th>Phase I</th>
<th>Phase II</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum amount of waste to be received daily:</td>
<td>18</td>
<td>36</td>
<td>Tons/day</td>
</tr>
<tr>
<td>Maximum amount of waste to be stored at any point in time:</td>
<td>36</td>
<td>72</td>
<td>Tons</td>
</tr>
</tbody>
</table>

**Maximum length of time waste is to remain at the facility:** 30 ☐ hours ☒ days

**Specify the maximum time that unprocessed and processed wastes will be allowed to remain on-site:**

**Processed:** 7 ☐ hours ☒ days

**Unprocessed:** 72. ☒ hours ☐ days, if unrefrigerated, or 30. ☐ hours ☒ days in refrigeration

**Identify the intended disposition of processed and unprocessed waste received at the facility (attach additional pages to answer this question if necessary):**

Treated waste will be sent to a TCEQ approved municipal solid waste landfill for disposal. Untreated medical waste will be managed in accordance with 25 TAC Subchapter K and applicable sections found in 30 TAC Chapter 326.

### 4.3 Generated Waste [30 TAC §326.75(c)]

**Describe how all liquids and solid waste resulting from the facility operations will be disposed of in a manner that will not cause surface water and groundwater pollution (attach additional pages to answer this question if necessary):**

All process and wash water will be generated indoors over impervious floors with trench drains and either placed back into the processing unit or will be managed and directed into an on-site wastewater storage container by the trench drains until properly disposed at a TCEQ-authorized facility. Management of process water will be in accordance with Local, State, and Federal requirements. All necessary authorizations and approvals will be obtained and retained within the operating record at the site and a copy will be provided to the TCEQ. All solid waste resulting from the operation of the facility will be disposed of in a manner that will not cause surface water or groundwater pollution. All solid waste will be disposed of in accordance with §326.41(c).
4.4 Access Control [30 TAC §326.75(g)]

Describe how public access to the facility will be controlled (attach additional pages to answer this question if necessary):

Access to the Facility will be controlled by a minimum six (6) foot tall chain-link fence with entrance gates that will be locked when the facility is not in operation. The building has lockable doors and bay doors, which will be closed and locked when not in use. An attendant shall be on-site during operating hours and when waste is being loaded or unloaded to/from vehicles. Waste storage units, including refrigeration units and transport units storing waste will be located within the perimeter fencing, but not within the buffer zone or any easements or right-of-way crossing the facility.

Describe how access roads and parking areas will be maintained to control dust and prevent mud from being track off-site (attach additional pages to answer this question if necessary):

Due to all-weather surfaces at the Facility, dust from on-site and other access roadways becoming a nuisance to surrounding areas is not anticipated. In the event that there is a problem related to windblown dust, water will be used to control windblown dust. Within the Facility boundary, a standard garden hose connected to an on-site water source may be sufficient to apply water.

All on-site and other access roadways will be maintained on a regular basis to minimize depressions, ruts, and potholes, as appropriate. Off-site access roads and their repairs are under the jurisdiction of Potter County and/or the Texas Department of Transportation.

Access to the facility will be controlled by a perimeter fence, with lockable gates. Identify or describe the type of fence that will be installed at the facility:

☐ A four-foot-high barbed wire fence;
☒ A six-foot-high chain-link fence; or
☐ Other: _____

4.5 Operating Hours [(30 TAC §326.75(i)]]

Provide the operating hours of the facility; include justification for hours outside of 7:00 a.m. to 7:00 p.m., Monday through Friday:

Requested waste acceptance and transfer hours for the Facility and commercial waste transportation companies are 24 hours per day, 7 days per week. Operating hours for waste processing units is 24 hours per day, 7 days per week. The owner or operator may conduct operations for maintenance and housekeeping, as needed, 24 hours per day, 7 days per week. Customer and business needs necessitate the operating hours requested (i.e. customers often require the collection of waste after normal operating hours).

Requested waste acceptance hours from the Citizen Collection Station are 7:00am to 7:00 pm, Monday through Friday. See Section 4.2 for operation details.

List the alternative operating hours, if any, of up to five days in a calendar-year period: Not applicable.
Section 5—Other Site Operating Plan, Financial Assurance, and Closure Requirements

Attach additional pages describing how the facility will comply with the following requirements.

- **30 TAC §326.75(d), Storage**

  All medical waste will be stored in a manner that does not create a nuisance. All medical waste materials remain in sealed containers or bags as they are placed in the processing unit. All waste processing will be conducted inside the building, separate from waste storage.

  Untreated medical waste may need to be temporarily stored on site. Any untreated medical waste requiring storage for a period longer than 72 hours will be placed in refrigerated storage at a temperature of 45 degrees Fahrenheit or less. Once waste has been treated, it will be shredded and placed in an enclosed waste compactor and hauled to a TCEQ-permitted landfill facility for disposal. Alternatively, the treated waste may be contained in appropriate containers which are leak proof and will be kept securely closed to prevent spillage. Control of odors, vectors, and windblown waste from the storage area will be maintained.

  The stationary compactor will be operated and maintained in such a way as not to create a public nuisance through material loss or spillage, odor, vector breeding or harborage, or other condition. The sealed compactor will contain materials in such a manner that does not provide exposure, therefore eliminating the potential for the introduction of vectors and material loss or spillage. In addition, the compactor will be hauled to a permitted landfill on a regular basis.

- **30 TAC §326.75(e), Recordkeeping and Reporting**

  A copy of the registration, the approved registration application, and any other required plan or other related document, including as-built construction specifications and drawings, will be maintained at this Facility at all times as part of the Facility Operating Record. These documents will be available for inspection by agency representatives.

  The operator will record and maintain the information required in §326.75(e)(2)(A-E) in their Facility Operating Record.

  The owner or operator will sign all reports and other information requested by the executive director (per §305.44(a) relating to Signatories to Applications) or by an authorized representative of the owner or operator.

  Should there be a change in an individual or position, a new authorization satisfying the requirements of §326.75(e)(3)(A) will be submitted to the executive director prior to or together with, any reports, information, or applications to be signed by an authorized representative.

  All information contained in the Operating Record will be furnished upon request to the executive director and shall be made available at all reasonable times for inspection by the executive director.

  The owner or operator shall retain all information contained within the operating record and the different plans required for the facility for the life of the facility.

  The owner or operator will retain all information contained within the Operating Record and the various plans required for the Facility for the life of the operation.
Each load of untreated medical waste is reviewed upon receipt to ensure the proper documentation has been provided and that the Facility referred to in this registration application is named as the designated facility to receive the waste. Shipping documents are signed and at least one copy is provided to the transporter. The owner or operator will retain a copy for the Facility Operating Record and within 45 days after the delivery is received, a written or electronic copy of the shipping document is returned to the generator, including the total weight of waste received and a statement that the medical waste was treated in accordance with 25 TAC §1.136.

- **30 TAC §326.75(f), Fire protection Plan**

An adequate supply of water under pressure will be provided on-site via water well and brought to the site by the local firefighting authority, as needed.

Firefighting equipment will be readily available and accessible. Fire extinguishers will be located throughout the Facility building. Fire extinguishers are typically 5-pound ABC type. In addition, a standard water hose will be available for initial firefighting.

A Fire Protection Plan is included as **Attachment 20A**. Employees will be trained in its contents and use. The Fire Protection Plan includes the measures for fire protection, procedures for using fire protection measures, employee training and safety procedures, notification protocol, etc. The Fire Protection Plan is in compliance with local fire codes.

- **30 TAC §326.75(g)(2), Access Roads, Vehicle Parking, and Safety Measures**

The access roads to the Facility are all paved roadway, as detailed in **Section 2.2** of the Application for a Medical Waste Registration. The entrance and exit for the Facility are on Indian Hill Road, which is a two-lane thoroughfare leading to roadways connected to Interstate 40 (I-40). The Facility provides safe on-site access for commercial vehicles, and for employees and visitors. The on-site roads include adequate turning radii according to the vehicles that will be utilized at the facility and disruption of normal traffic patterns will be avoided. The Facility provides adequate parking for equipment, employees, and visitors. Safety bumpers at hoppers will be provided, where applicable. On-site roads are constructed of well-graded gravel and will be maintained to prevent airborne dust and mud.

- **30 TAC §326.75(g), Access Control**

Public access control will be maintained through several means. When the facility is operating, process operators control access to the Facility building which houses the processing areas. No processing occurs outside of the Facility building. Traffic is controlled by vehicle signage and established access roads. The Facility building is locked and secured during non-operational hours. The perimeter of the facility is equipped with 6-foot chain-link fencing and a locking gate at the site entrance and exit.

The access roads to the Facility are all paved roadway, as detailed in **Section 2.2** of the Application for a Medical Waste Registration. The entrance and exit for the Facility are on Indian Hill Road, which is a two-lane thoroughfare leading to roadways connected to Interstate 40 (I-40). The Facility provides safe on-site access for commercial vehicles, and for employees and visitors. The on-site roads include adequate turning radii according to the vehicles that will be utilized at the facility and disruption of normal traffic patterns will be avoided. The Facility provides adequate parking for equipment, employees, and visitors. Safety bumpers at hoppers will be provided, where applicable. On-site roads are constructed of well-graded gravel and will be maintained to prevent airborne dust and mud.

The operating/processing area is housed in the enclosed Facility structure. Access to the building is controlled via process operator attendance, boundary fencing, and locking doors and gates.
The Facility has a 6-foot chain link no-climb perimeter fence which encloses the facility building and parking areas, as shown on the Facility Access and Layout Maps, presented as Attachment 2A and Attachment 2B, respectively. An attendant will be on-site during operating hours.

30 TAC §326.75(h), Unloading of Waste

The unloading of medical waste will be confined to the loading docks, as shown on Attachment 2B. An attendant will monitor all incoming loads of waste. Signage and/or Facility personnel will direct vehicles to the appropriate unloading areas. This Facility is not required to accept any medical waste that may cause problems in maintaining compliance with the Site Operating Plan. If unacceptable wastes are identified they will be refused and returned to their place of origin for proper handling. Non-hazardous pathological, pharmaceutical, and chemotherapeutic wastes may be stored and processed at the Facility. Untreated waste in storage for 72 hours or more will be refrigerated.

The unloading of waste in areas not specified for this activity, as shown on Attachment 2B, will be prohibited. Should any waste be deposited in an unauthorized area, it will be removed immediately and treated, stored, or disposed of properly.

The unloading of prohibited wastes at the Facility will not be allowed. Prohibited waste will be returned immediately to the transporter or generator of the waste or transported to an appropriately permitted facility.

To prevent the exceedance of the requested maximum waste storage volume, all excess waste will be diverted/transferred to a TCEQ-approved facility for treatment, storage, or disposal.

30 TAC §326.75(i)(3), Recording of Applicable Alternative Hours (if used)

Not applicable

30 TAC §326.75(j), Signs at Facility Entrances

The owner/operator will display a sign at the entrance to the Facility which measures as least four feet by four feet with letters at least three inches in height stating the following the Facility Name; type of facility; hours and days of operation; authorization number of the Facility; and Facility rules.

30 TAC §326.75(k), Control of Windblown Material and Litter

Windblown litter is not anticipated at this Facility. Processing and storage areas of the Facility are completely enclosed. Any waste stored outside of the building will be stored in completely enclosed transportation trailers. However, site personnel will regularly patrol the Facility property for litter and any identified litter will be cleaned up the same day.

30 TAC §326.75(l), Facility Access Roads

All off-site access roads are paved, all-weather roads and on-site roads are constructed of well-graded gravel to ensure access and integrity in all weather conditions. Although mud is not anticipated on the Facility roadways or parking areas, if mud is present, Facility personnel will implement measures to minimize the tracking of mud and debris onto public roadways. Airborne dust is not anticipated to be a nuisance at the Facility; however, if airborne dust is observed, Facility personnel will implement measures, such as wetting of on-site roadways to prevent dust from becoming airborne.
On-site roads/parking areas are maintained by the owner/operator. Off-site access roads are maintained by the property authority (municipal or state entities).

- **30 TAC §326.75(m), Noise Pollution and Visual Screening**

All processing and storage except enclosed vehicle storage of waste to be processed on-site or transported to an off-site facility will be conducted inside of an enclosed building to prevent potential noise and visual impacts. All other activities are not anticipated to produce noise pollution or adverse visual impacts.

- **30 TAC §326.75(n), Overloading and Breakdown**

The design capacity of the processing unit(s) will not be exceeded. The Facility will not accumulate medical waste in quantities that cannot be processed within such time that would allow for the creation of odors, insect breeding and harborage of other vectors.

There are several measures employed by the owner/operator that ensure that waste is stored properly and processed in a timely manner:

1. The Facility has sufficient storage capacity for incoming waste to accommodate the requested volume of medical waste allowable in storage which would allow for sufficient time to repair equipment malfunctions.

2. Incoming wastes stored <72 hours will be stored in an enclosed unit or in appropriate closed containers and, once processed, will not attract vectors or create odors. Wastes stored >72 hours will be stored in an enclosed, refrigerated unit until processed or transferred to a TCEQ-approved off-site facility, in the event of prolonged work stoppage. Designated processing and storage areas are depicted on Attachment 2A and 2B.

3. Incoming waste shipments can be delayed, or sent to alternative facilities, if necessary.

If significant work stoppage should occur due to mechanical breakdown or other causes, the Facility will restrict the receipt of waste accordingly. Under such circumstances, incoming waste deliveries will be delayed or diverted to an approved backup processing or disposal facility. If the work stoppage is anticipated to last long enough to create objectionable odors, insect breeding or harborage of vectors, steps shall be taken to remove the accumulated medical waste from the Facility to a TCEQ-approved treatment, storage, or disposal facility.

The owner or operator will have alternative processing or disposal procedures for the solid waste in the event that the facility becomes inoperable for periods longer than 24 hours.

Treated waste will be hauled to a TCEQ-approved facility for disposal.

- **30 TAC §326.75(o), Sanitation**

Potable water and sanitary facilities for all employees and visitors will be provided, as shown on Attachment 2A and 2B.

All working surfaces that come in contact with wastes will be washed down regularly at the completion of processing. Washing and cleaning activities will be conducted as needed, at least twice weekly. Wash waters are not allowed to accumulate on site in order to prevent the creation of odors or attract vectors. Additionally, all wash waters will be collected and disposed of in an authorized manner.

- **30 TAC §326.75(p), Ventilation and Air Pollution Control**
This Facility will comply with all applicable regulations regarding air emissions and will obtain any
required authorization from the TCEQ, Air Permits Division.

- **30 TAC §326.75(q), Health and Safety**
  
  Please see Attachment 20B.

- **30 TAC 326.75(r), Disposal of Treated Medical Waste (if applicable)**

  As provided by §326.75(r), treated microbiological waste, blood, blood products, body fluids,
laboratory specimens of blood and tissue, and animal bedding may be disposed of in a permitted
landfill. The owner/operator processes reusable medical waste containers at the Facility using a
specialized wash system, and containers will therefore not be disposed. The owner/operator will
shred treated medical waste prior to disposing of it in a permitted landfill. Any markings that
identify the waste as a medical waste will therefore be obscured and illegible after the shredding
process.

  Any markings that identify the waste as a medical waste will be covered with a label that identifies
the waste as treated medical waste before disposal. The identification of the waste as treated
may be accomplished by the use of color-coded, disposable containers for the treated waste or
by a label that states that the contents of the disposable container have been treated in
accordance with the provisions of 25 TAC §1.136.

  Treated waste will be accompanied by a shipping document that includes a statement that the
medical waste was treated in accordance with 25 TAC §1.136 (relating to Approved Methods of
Treatment and Disposition).

- **30 TAC §326.71(n); Financial Assurance**

  The value of financial assurance for this Facility will be based on phased growth of the Facility’s
operations, as stated in Section 3.2 of this registration application.

  A copy of the documentation required to demonstrate financial assurance as specified in Chapter
37, Subchapter R of this title (relating to Financial Assurance for Municipal Solid Waste Facilities)
shall be submitted 60 days prior to the initial receipt of waste. Continuous financial assurance
coverage for closure must be provided until all requirements of the final closure plan, presented
as Attachment 20C, have been completed and the facility is determined to be closed in writing
by the executive director.

- **30 TAC §326.71(l)(1); provide notice for final facility closure and information for the
public and executive director no later than 90 days prior to initiating final closure.**

  Once the decision is made to close, and no later than 90 days prior to the closure, the operator
will place a public notice in the newspaper with the largest circulation in the area. The
announcement will have the facility name, contact address and physical location, registration
number, notification number, and intended closure date. The operator will also make available
an adequate number of copies of the approved final closure plan for public access and review. A
written notice will be sent to the executive director of the TCEQ of the intent to close the treatment
facility. Additional notices will be mailed to current customers. Copies of all correspondence will
be placed in the site operating record.

  This Closure Plan, presented as Attachment 20C, provides for the conclusion of all operations
and the termination of the requirements for a State of Texas Medical Waste Treatment Facility
Registration at the location. In order to close the Facility, all on-site medical waste and related
wastes would need to be transferred to a treatment, storage, or disposal facility, the containers
used for the transfer of the medical waste would need to be cleaned and sanitized, the Facility floors in the storage and processing/treatment areas would need to be cleaned and sanitized, and the Treatment Facility equipment would need to be removed from the Facility property.

- **30 TAC §326.71(l)(2); install signs and barriers upon notification of final closure to the executive director.**

  Upon facility closure notification to the executive director, the required signs will be posted at the main entrance and all other frequently used points of access for the Facility, notifying all parties that may utilize the facility about the proposed closing date. The signs will state that after the closing date, acceptance of waste at the facility will be prohibited. After the date of closure, the gates will be shut, or barriers installed to prevent unauthorized dumping.

- **30 TAC §326.71(l)(3); provide certification of closure, and a request for voluntary revocation of facility registration within 10 days after completion of final closure of the facility.**

  Within ten days of completion of final closure activities, the operator or the operator’s agent will submit to the executive director of the TCEQ a closure certification and a request for registration revocation. The closure certification will be signed by a Texas-licensed professional engineer and will verify that the final facility closure was completed in accordance with the approved closure plan. The engineer’s certification may state that:

  (A) Certification

  A certification, signed by an independent licensed professional engineer, verifying that final facility closure has been completed in accordance with the approved closure plan. The submittal to the executive director shall include all applicable documentation necessary for certification of final facility closure; and

  (B) Request for Voluntary Revocation

  A request for voluntary revocation of the facility registration will be made at the time of closure.
Section 6— Applicant Certification and Signature

The applicant is the person or entity who would be the owner of the facility and in whose name the registration would be issued. If the application is signed by an authorized representative for the applicant, the applicant must complete the delegation of signature authority.

Certification by Applicant or Authorized Signatory [30 TAC §305.44]

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of applicant, or other person authorized to sign: Brandon Brown

Title of person signing: President

Signature: ___________________________ Date: January 3, 2020

Notarization

SUBSCRIBED AND SWORN to before me by the said President - Brandon Brown

On this 3rd day of January, 2020

My commission expires on the 15th day of April, 2020

DEBBIE STEPHENSON
Notary Public, State of Texas
Notary ID #131523412
My Commission Expires 04-10-2022

Applicant’s Delegation of Signature Authority [30 TAC §305.43]

I hereby delegate the person named below as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and appear for me at any hearing or before the Commission in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Name of applicant’s representative: Wade Wheatley

Name of person who is the applicant, or officer or official representing corporation or public agency that is the applicant: Brandon Brown

Signature: ___________________________ Date: January 3, 2020

Notarization

SUBSCRIBED AND SWORN to before me by the said President - Brandon Brown

On this 3rd day of January, 2020

Notary Public in and for

DEBBIE STEPHENSON
Notary Public, State of Texas
Notary ID #131523412
My Commission Expires 04-10-2022

TCEQ-20789, Application for a Medical Waste Registration (09-28-18)
Section 7—Property Owner Affidavit

Affidavit [30 TAC §326.71(b)]

This section must be completed by the owner of the property on which the facility would be located.

I am the owner of the land on which the proposed facility would be located. I acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and after closure for the purpose of inspection and maintenance.

Property owner name: Frank Shane Ward and Bobby Brandon Brown

Signature: ___________________________ Date: January 3, 2020

Notarization

SUBSCRIBED AND SWORN to before me by the said President - Brandon Brown


My commission expires on the 10th day of April, 2022

Notary Public in and for

Randall County, Texas

DEBBIE STEPHENSON
Notary Public, State of Texas
Notary ID #131523412
My Commission Expires 04-10-2022
Attachments

Table Att-1. Required Attachments

<table>
<thead>
<tr>
<th>Attachments</th>
<th>Attachment No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Location Map</td>
<td>1</td>
</tr>
<tr>
<td>Facility Access Map</td>
<td>2A</td>
</tr>
<tr>
<td>Facility Layout Map</td>
<td>2B</td>
</tr>
<tr>
<td>Land Use Map</td>
<td>3</td>
</tr>
<tr>
<td>Land Ownership Map</td>
<td>4A</td>
</tr>
<tr>
<td>Land Ownership List</td>
<td>4B</td>
</tr>
<tr>
<td>Land Ownership Hard Copy and Electronic Mailing List or Mailing Labels</td>
<td>4B</td>
</tr>
<tr>
<td>Metes and Bounds Drawing and Description</td>
<td>5</td>
</tr>
<tr>
<td>Property Owner Affidavit</td>
<td>6</td>
</tr>
<tr>
<td>Copy of Authorization to Discharge Wastewater to a Treatment Facility</td>
<td>7</td>
</tr>
<tr>
<td>Process Flow Diagram and Narrative</td>
<td>8</td>
</tr>
<tr>
<td>Procedures for Operation and Testing of Treatment Equipment, if applicable</td>
<td>9</td>
</tr>
<tr>
<td>Procedures for Preparation of any Chemical used in Treatment, if applicable</td>
<td>9</td>
</tr>
<tr>
<td>Verification of Legal Status</td>
<td>10</td>
</tr>
<tr>
<td>Texas Department of Transportation Coordination Letters</td>
<td>11</td>
</tr>
<tr>
<td>Entity Exercising Maintenance Responsibility of Public Roadway, if applicable</td>
<td>12</td>
</tr>
<tr>
<td>FEMA Map</td>
<td>13</td>
</tr>
<tr>
<td>Facility Design Demonstration for Flood Management, or Conditional Letter of Map Amendment from FEMA, if applicable</td>
<td>14</td>
</tr>
<tr>
<td>Wetland Documentation, if applicable</td>
<td>15</td>
</tr>
<tr>
<td>Council of Governments Review Request Coordination Letters</td>
<td>16</td>
</tr>
</tbody>
</table>

**Table Att-2. Additional Attachments; check all that apply.**

<table>
<thead>
<tr>
<th>Attachments</th>
<th>Attachment No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☒ TCEQ Core Data Form(s)</td>
<td>17</td>
</tr>
<tr>
<td>☒ Fee Receipt or copy of check</td>
<td>18</td>
</tr>
<tr>
<td>☐ Published Zoning Map</td>
<td>NA</td>
</tr>
<tr>
<td>☐ Delegation of Signatory Authority</td>
<td>NA</td>
</tr>
<tr>
<td>☒ Manufacturer Specifications for Waste Management Units</td>
<td>19</td>
</tr>
<tr>
<td>☐ Additional Storage and Processing Unit Closure Cost Items</td>
<td>NA</td>
</tr>
<tr>
<td>☐ Confidential Documents</td>
<td>NA</td>
</tr>
<tr>
<td>☒ Section 5 – Other Site Operating Plan, Financial Assurance, and Closure Requirements</td>
<td>20A, 20B, &amp; 20C</td>
</tr>
</tbody>
</table>
ATTACHMENT 2A

FACILITY ACCESS MAP
NOTES

1. MEDICAL WASTE PROCESSING WILL BE CONDUCTED ONLY IN DESIGNATED WASTE PROCESSING AREA.

2. NO TREATED OR UntREATED WASTE WILL BE STORED IN BUFFER ZONE.

3. THE BUFFER ZONE WILL BE MAINTAINED TO PROVIDE SAFE PASSAGE OF FIRE FIGHTING AND OTHER EMERGENCY VEHICLES.

4. VISITOR PARKING AND SIGN-IN IS LOCATED AT THE MAIN OFFICE.

FACILITY ACCESS MAP
ATTACHMENT 2A
DIVERSIFIED WASTE MANAGEMENT, INC.
AMARILLO, TEXAS

DRAWN BY: JDS
APPROVED BY: MMW
DATE: 12–23–2019
SCALE AS SHOWN

GDS Associates, Inc.
Engineers and Consultants

DGS PROJECT NUMBER: 44634–D02
DIVERSIFIED WASTE MANAGEMENT, INC.

DATE: 12–23–2019
FIGURE NUMBER: 2A

S:\pp\1459\1180\1459.1180.3000\01459.1180.3000.01.1224\1459.1180.3000.01.1224.001.001.030.1.111.019\1459.1180.3000.01.1224.001.001.030.1.111.021.099.001

FOR PERMITTING PURPOSES ONLY
ATTACHMENT 2B
FACILITY LAYOUT MAP
FOR PERMITTING PURPOSES ONLY

NOTES
1. MEDICAL WASTE PROCESSING WILL BE CONDUCTED ONLY IN DESIGNATED WASTE PROCESSING AREA.
2. NO TREATED OR UNTREATED WASTE WILL BE STORED IN BUFFER ZONE.
3. THE BUFFER ZONE WILL BE MAINTAINED TO PROVIDE SAFE PASSAGE OF FIRE FIGHTING AND OTHER EMERGENCY VEHICLES.
4. VISITOR PARKING AND SIGN-IN IS LOCATED AT THE MAIN OFFICE.

0 25 50 Feet

FACILITY LAYOUT MAP
ATTACHMENT 2B
DIVERSIFIED WASTE MANAGEMENT, INC.
AMARILLO, TEXAS

GDS PROJECT NUMBER: 44634-002
DATE: 12-23-2019
FIGURE NUMBER: 2B

DRAWN BY: JDS
REVISION NUMBER: 
DATE OF REVISION: 
DESCRIPTION: 

APPROVED BY: WMM
DATE: 12-23-2019

GDS Associates, Inc.
Engineers and Consultants
103 Engineering Avenue Suite 1010
Salt Lake City, UT 84101
1-801-323-5096
www.gds associates.com
LAND USE MAP
ATTACHMENT 3
DIVERSIFIED WASTE MANAGEMENT, INC
AMARILLO, TEXAS

GDS Associates, Inc.
Texas Registered Engineering Firm
F-4009
FOR PERMITTING PURPOSES ONLY
ATTACHMENT 4A

LAND OWNERSHIP MAP
<table>
<thead>
<tr>
<th></th>
<th>LANDOWNER LIST ATTACHMENT 4B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WARD F SHANE, BROWN B BRANDON</td>
</tr>
<tr>
<td></td>
<td>11910 INTERSTATE 27</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79119-2527</td>
</tr>
<tr>
<td>2</td>
<td>SV DEVELOPERS LLC</td>
</tr>
<tr>
<td></td>
<td>6013 SHADY BROOK DR</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79124-1326</td>
</tr>
<tr>
<td>3</td>
<td>EMENY 59 LTD</td>
</tr>
<tr>
<td></td>
<td>PO BOX 1230</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79105-1230</td>
</tr>
<tr>
<td>4</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>5</td>
<td>MCCARTY LYNDA</td>
</tr>
<tr>
<td></td>
<td>4502 SW 2ND AVE</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79106-5206</td>
</tr>
<tr>
<td>6</td>
<td>WILLIAMS THOMAS G</td>
</tr>
<tr>
<td></td>
<td>13825 INDIAN HILL RD</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79124-2603</td>
</tr>
<tr>
<td>7</td>
<td>CARROLL THOMAS GERALD</td>
</tr>
<tr>
<td></td>
<td>902 SW 10TH ST</td>
</tr>
<tr>
<td></td>
<td>SEMINOLE, TX 79360-5235</td>
</tr>
<tr>
<td>8</td>
<td>SANDERS RANDELL L, SANDERS SHERRI A</td>
</tr>
<tr>
<td></td>
<td>13775 INDIAN HILL RD</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79124-2602</td>
</tr>
<tr>
<td>9</td>
<td>SANDERS RANDELL L, SANDERS SHERRI A</td>
</tr>
<tr>
<td></td>
<td>13775 INDIAN HILL RD</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79124-2602</td>
</tr>
<tr>
<td>10</td>
<td>MARKLE STEEL CO</td>
</tr>
<tr>
<td></td>
<td>PO BOX 1886</td>
</tr>
<tr>
<td></td>
<td>ODESSA, TX 79760-1886</td>
</tr>
<tr>
<td>11</td>
<td>WARD F SHANE, BROWN B BRANDON</td>
</tr>
<tr>
<td></td>
<td>11910 INTERSTATE 27</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79119-2527</td>
</tr>
<tr>
<td>12</td>
<td>WARD F SHANE, BROWN B BRANDON</td>
</tr>
<tr>
<td></td>
<td>11910 INTERSTATE 27</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79119-2527</td>
</tr>
<tr>
<td>13</td>
<td>TERRY CHARLES</td>
</tr>
<tr>
<td></td>
<td>13375 INDIAN HILL RD</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79124-2601</td>
</tr>
<tr>
<td>14</td>
<td>RANGEL ARTURO</td>
</tr>
<tr>
<td></td>
<td>13345 INDIAN HILL RD APT 3</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79124-2616</td>
</tr>
<tr>
<td>15</td>
<td>MORO REBECCA</td>
</tr>
<tr>
<td></td>
<td>13245 INDIAN HILL RD</td>
</tr>
<tr>
<td></td>
<td>AMARILLO, TX 79124-2600</td>
</tr>
<tr>
<td></td>
<td>Name</td>
</tr>
<tr>
<td>---</td>
<td>---------------------------</td>
</tr>
<tr>
<td>16</td>
<td>PENDLEY RONALD G</td>
</tr>
<tr>
<td>17</td>
<td>PENDLEY RONALD G</td>
</tr>
<tr>
<td>18</td>
<td>KRAUSE LANDSCAPE CONTRACTORS INC</td>
</tr>
<tr>
<td>19</td>
<td>KAREN CORP</td>
</tr>
<tr>
<td>20</td>
<td>KAREN CORP</td>
</tr>
<tr>
<td>21</td>
<td>BOYCE WILLIAM C JR TRUST, BOYCE SUZANNE TRUSTEE, % AMARILLO NATIONAL BANK</td>
</tr>
<tr>
<td>22</td>
<td>WOLFLIN PLACE LLC</td>
</tr>
<tr>
<td>23</td>
<td>LOHMAN WILLIAM H</td>
</tr>
<tr>
<td>24</td>
<td>POTTER COUNTY, % POTTER COUNTY JUDGE</td>
</tr>
<tr>
<td>25</td>
<td>NORTHCUTT FRANCINE, MORALES MELANIE A</td>
</tr>
<tr>
<td>26</td>
<td>NORTHCUTT FRANCINE, MORALES MELANIE A</td>
</tr>
<tr>
<td>27</td>
<td>ROBERTS NIHILA J, ROBERTS BILLY GREG</td>
</tr>
<tr>
<td>28</td>
<td>A TO Z BILLBOARDS INC</td>
</tr>
<tr>
<td>29</td>
<td>A TO Z BILLBOARDS INC</td>
</tr>
<tr>
<td>30</td>
<td>EMELINE BUSH OBIEN/MARSH TRUST, MARSH STANLEY IV CO-TRUSTEE, DAVIDSON ELIZABETH MARSH CO-TRUSTEE</td>
</tr>
</tbody>
</table>
ATTACHMENT 5

METES AND BOUNDS DRAWING AND DESCRIPTION
BOUNDARY SURVEY MADE FOR:

Diversified Waste Management, Inc.
Amarillo, Texas  79124

NOTES:
1. This Survey may not reflect all conditions that are contained in the covenants and/or restrictions that affect this property.
2. This Survey is subject to any facts which may be disclosed by a full and accurate title search.
3. Portions of the plat are exaggerated for clarity.
4. Record documents other than those shown may affect this tract.
5. Only those covenants furnished to the surveyor are shown herein.

PROPERTY DESCRIPTION:

A 3.35 acre tract to land out of Section One Hundred Ten (110), Block No. Nine (9), BS&B Survey, Potter County, Texas, and being a portion of a 9.96 acre tract of land as conveyed in a Warranty Deed of record in Volume 1149, page 20 of the Deed Records of Potter County, Texas, said 3.35 acre tract of land being more particularly described by metes and bounds as follows:

BEGINNING at a point on the North line of said 9.96 acre tract whose Northwest corner is North 90 degrees 20 minutes East, a distance of 567.85 feet to a point in the North line of the Rock Island Railroad right-of-way, said point being 50 feet North of the center line of said railroad right-of-way;

THENCE North 88 degrees 18 minutes West with the North line of said railroad right-of-way, a distance of 402.15 feet to a point;

THENCE North 88 degrees 06 minutes 37 seconds East a distance of 537.44 feet to a point in the North line of said 9.96 acre tract being 40 feet South of the North line of said Section 110;

THENCE South 88 degrees 17 East parallel with the North line of said Section 110, a distance of 402.03 feet to the POINT OF BEGINNING.

Said tract contains a computed area of 3.35 acres of land.
ATTACHMENT 6

PROPERTY OWNER AFFIDAVIT
Section 7—Property Owner Affidavit

Affidavit [30 TAC §326.71(b)]

This section must be completed by the owner of the property on which the facility would be located.

I am the owner of the land on which the proposed facility would be located. I acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and after closure for the purpose of inspection and maintenance.

Property owner name: Frank Shane Ward and Bobby Brandon Brown

Signature: ___________________________ Date: January 3, 2020

Notarization

SUBSCRIBED AND SWORN to before me by the said President - Brandon Brown


My commission expires on the 10th day of April, 2022

Notary Public in and for

County, Texas
ATTACHMENT 7
COPY OF AUTHORIZATION TO DISCHARGE WASTEWATER TO A TREATMENT FACILITY

NOT APPLICABLE
ALL WASTEWATER WILL BE CONTAINERIZED ON-SITE AND TRANSPORTED OFF-SITE FOR DISPOSAL AT A TCEQ-APPROVED FACILITY
NOTES:

1. IN THE EVENT THAT UNTREATED MEDICAL WASTE CANNOT BE PROCESSED BEFORE THE MAXIMUM LENGTH OF TIME WASTE IS TO REMAIN AT THE FACILITY, AS STATED IN THE REGISTRATION APPLICATION, THE UNTREATED WASTE WILL BE TRANSFERRED TO A TCEQ-APPROVED FACILITY FOR TREATMENT, STORAGE, OR DISPOSAL.

2. IN THE EVENT THAT THE MAXIMUM STORAGE VOLUME OF UNTREATED MEDICAL WASTE IS EXCEEDED, AS STATED IN THE REGISTRATION APPLICATION, THE EXCESS UNTREATED WASTE WILL BE DIVERTED/TRANSFERRED TO A TCEQ-APPROVED FACILITY FOR TREATMENT, STORAGE, OR DISPOSAL.

3. WASTE MAY ARRIVE AT FACILITY BY A TCEQ-REGISTERED TRANSPORTER OR BY A SMALL QUANTITY GENERATOR (SQQ) [GENERATOR OF LESS THAN 50 POUNDS OF UNTREATED MEDICAL WASTE PER MONTH] AS EXEMPTED PER 30 TEXAS ADMINISTRATIVE CODE 326.31(b).
Process Flow Narrative

The storage, processing, transferring, and disposal sequences for the medical waste and other various types of waste anticipated at the proposed facility are shown on the Process Flow Diagram, also presented in Attachment 8.

Untreated medical waste is collected from a waste generator by a TCEQ-registered medical waste transporter for transportation to the processing facility, or a small quantity generator (SQG) [generator of less than 50 pounds of untreated medical waste per month] may transport untreated medical waste to the facility without a TCEQ authorization; as stated in 30 Texas Administrative Code (TAC) 326.31(b).

Untreated medical waste arrives at the facility via TCEQ-registered medical waste transporter or SQG.

Waste acceptance procedures are described in Section 4.2 of the “Application for a Medical Waste Registration, Diversified Waste Management” (registration application).

Incoming waste will be transferred from transport vehicle to temporary storage before processing. If untreated medical waste is not processed within 72 hours of receipt, the waste will be refrigerated at temperatures at or below 45 degrees Fahrenheit. Waste will not be stored, processed, or transferred in buffer zones and will not be managed outside of
designated areas, as shown on **Attachments 2A and 2B**. See **Section 5.0** of the registration application for additional details of medical waste storage.

Received sharps and sharps containers will be diverted as a separate waste stream. Untreated sharps and sharps containers will be treated as untreated medical waste and will be stored accordingly. Prior to processing, sharps containers will be emptied of their contents before processed in a container washing system. The contents and all untreated medical waste will be processed via steam sterilization. All treated medical waste will be shredded prior to compaction with the exception of reusable sharps containers which will be returned to the generator. Additional details regarding treatment of medical waste are provided as **Attachment 9**.

Treated medical waste will be processed as municipal solid waste and transported to a TCEQ-approved facility for proper disposal.
ATTACHMENT 9

PROCEDURES FOR OPERATION AND TESTING OF TREATMENT EQUIPMENT

PROCEDURES FOR PREPARATION OF ANY CHEMICAL USED IN TREATMENT (NOT APPLICABLE)
TREATMENT REQUIREMENTS AND PROCEDURES

Diversified Waste Management, Inc. (owner/operator) will treat medical waste in accordance with the provisions of Title 25 TAC Section 1.136 using steam disinfection. Section 1.136 refers to the approved methods of treatment and disposition within Title 25 (relating to Health Services) TAC Part 1 (relating to the Department of State Health Services) Chapter 1 (relating to Texas Board Health) Subchapter K (relating to Definition, Treatment, and Disposition of Special Medical Waste from Health Care-Related Facilities). Section 1.136 allows for various methods of treatment for various types of medical waste.

The owner/operator will treat medical waste to at least the minimum parametric standards of steam disinfection according to Title 25 TAC Section 1.133 (relating to Scope, Covering Exceptions and Minimum Parametric Standards for Waste Treatment Technologies Previously Approved by the Texas Department of Health).

Treated waste will be managed as municipal solid waste and will be transported to and disposed at a TCEQ-permitted landfill or disposal facility in accordance with 30 TAC §326.75(r) and 25 TAC §1.136.

Waste treatment, by autoclave, procedures are summarized below (equipment further described in Attachment 19):

1. Untreated waste is loaded into carts manufactured for autoclave use and the carts are loaded into the processing unit treatment chamber.
2. Once the door is closed and sealed, the steam disinfection operational parameters are set, and the treatment process is started.
3. Upon treatment cycle completion, treated waste is removed from the treatment chamber and handled as municipal solid waste.
4. The carts containing treated waste will be emptied into a shredder, the treated waste will be shredded and then compacted before the treated waste is transported to and disposed at a TCEQ-permitted landfill or disposal facility in accordance with 30 TAC §326.75(r) and 25 TAC §1.136.

Recyclable materials treatment, by wash system, procedures are summarized below (equipment further described in Attachment 19):

1. The wash settings are set on the machine before treatment begins.
2. Empty containers are manually loaded onto the machine’s conveyor belt.
3. The conveyor belt transports the empty containers through the wash system within the machine.
   a. High-pressure, high-temperature wash
4. Containers exit the system on the conveyor belt after washing.

(1) **Operator Demonstration of Minimum Four Log Ten Reduction**
The operator shall demonstrate a minimum four log ten reduction as defined in 25 TAC §1.132 (relating to Definitions) on routine performance testing using appropriate Bacillus species biological indicators (as defined in 25 TAC §1.132).

(2) **Weekly Testing**
The operator shall conduct weekly testing.

(3) **Performance Standard Compliance**
For those processes that the manufacturer has documented compliance with the performance standard prescribed in 25 TAC §1.135 based on specific parameters (for example, pH, temperature, pressure, etc.), and for previously approved treatment processes that a continuous readout and record of operating parameters is available, the operator may substitute routine parameter monitoring for biological monitoring. The operator shall confirm that any chemicals or reagents used as part of the treatment process are at the effective treatment strength. The operator will maintain records of operating parameters and reagent strength for three years.

(4) **Quality Control – Single Use Units**
The manufacturer of single-use, disposable treatment units shall be responsible for maintaining adequate quality control for each lot of single-use products. The treating facility shall be responsible for following the manufacturer’s instructions.

(5) **Potable Water Contamination Prevention**
The owner/operator will use potable water brought to the facility from off-site.

(6) **Medical Waste Incinerators**
The owner/operator will not have any incinerators associated with their facility.

(7) **Alternative Treatment Technologies**
Alternative treatment technologies may be approved in accordance with requirements found in 25 TAC §1.135 (relating to Performance Standards for Commercially-Available Alternate Treatment Technologies for Special Waste from Health Care-Related Facilities).
CERTIFICATE OF FILING
OF
DIVERSIFIED WASTE MANAGEMENT, INC.
File Number: 801521417

The undersigned, as Secretary of State of Texas, hereby certifies that a Certificate of Formation for the above named Domestic For-Profit Corporation has been received in this office and has been found to conform to the applicable provisions of law.

ACCORDINGLY, the undersigned, as Secretary of State, and by virtue of the authority vested in the secretary by law, hereby issues this certificate evidencing filing effective on the date shown below.

The issuance of this certificate does not authorize the use of a name in this state in violation of the rights of another under the federal Trademark Act of 1946, the Texas trademark law, the Assumed Business or Professional Name Act, or the common law.

Dated: 12/15/2011

Effective: 12/15/2011

Hope Andrade
Secretary of State
ATTACHMENT 11

TEXAS DEPARTMENT OF TRANSPORTATION COORDINATION LETTERS
January 6, 2020

Mr. Brian Crawford, P.E.
Texas Department of Transportation
Amarillo District
5715 Canyon Drive
Amarillo, Texas 79110

Re: Type V Medical Waste Treatment Facility Registration Application Coordination
Diversified Waste Management, Inc. Amarillo, Potter County, Texas

Dear Mr. Crawford:

On behalf of our client, Diversified Waste Management, Inc., GDS Associates, Inc. would like to take this opportunity to inform you that we are preparing a registration application for the Texas Commission on Environmental Quality (TCEQ) for a Type V Registration for the operation of a medical waste processing facility. The facility will be located at 13511 Indian Road, Amarillo, Texas. Please refer to the enclosed General Location Map. The facility anticipates receiving 10-15 waste transport vehicles a day and 10-15 employee or visitor vehicles per day.

This letter is to request coordination with the Texas Department of Transportation for traffic and location restrictions in accordance with requirements set forth in the TCEQ, Medical Waste Regulations, 30 TAC §326.71(e)(4). The information will be used to document coordination with your agency, to show adequate road service for the facility and to show that traffic associated with the facility will not adversely affect the roadways. Information regarding the adequacy of the roads in the area as well as traffic counts for roads that are under the Texas Department of Transportation jurisdiction is appreciated. Your response can be mailed to my attention at 919 Congress Ave, Suite 1110, Austin, TX 78701 or sent electronically to Wade.Wheatley@GDSAssociates.com.

Thank you for your time and assistance. If you have any questions or need any additional information, please contact the Assistant Project Manager, Jack Simmons at 512-541-3131 or via e-mail at Jack.Simmons@GDSAssociates.com or you may contact me at 512-541-3160.

Sincerely,

Wade M. Wheatley, P.E.

Enclosure
January 6, 2020

Mr. Sebastian Ysaguirre – Department Head
Potter County Road and Bridge Department
2419 Willow Creek
Amarillo, Texas 79107

Re: Type V Medical Waste Treatment Facility Registration Application Coordination
Diversified Waste Management, Inc. Amarillo, Potter County, Texas

Dear Mr. Ysaguirre:

On behalf of our client, Diversified Waste Management, Inc., GDS Associates, Inc. would like to take this opportunity to inform you that we are preparing a registration application for the Texas Commission on Environmental Quality (TCEQ) for a Type V Registration for the operation of a medical waste processing facility. The facility will be located at 13511 Indian Road, Amarillo, Texas. Please refer to the enclosed General Location Map. The facility anticipates receiving 10-15 waste transport vehicles per day and 10-15 employee or visitor vehicles per day.

This letter is to request coordination with the Texas Department of Transportation for traffic and location restrictions in accordance with requirements set forth in the TCEQ, Medical Waste Regulations, 30 TAC §326.71(e)(4). The information will be used to document coordination with your agency, to show adequate road service for the facility and to show that traffic associated with the facility will not adversely affect the roadways. Information regarding the adequacy of the roads in the area as well as traffic counts for roads that are under the Texas Department of Transportation jurisdiction is appreciated. Your response can be mailed to my attention at 919 Congress Ave, Suite 1110, Austin, TX 78701 or sent electronically to Wade.Wheatley@GDSAssociates.com.

Thank you for your time and assistance. If you have any questions or need any additional information, please contact the Assistant Project Manager, Jack Simmons at 512-541-3131 or via e-mail at Jack.Simmons@GDSAssociates.com or you may contact me at 512-541-3160.

Sincerely,

Wade M. Wheatley, P.E.

Enclosure
ATTACHMENT 14

FACILITY DESIGN DEMONSTRATION FOR FLOOD MANAGEMENT, OR CONDITIONAL LETTER OF MAP AMENDMENT FROM FEMA

NOT APPLICABLE
ATTACHMENT 15

WETLAND DOCUMENTATION
ATTACHMENT 16

COUNCIL OF GOVERNMENTS REVIEW REQUEST
COORDINATION LETTERS
January 6, 2020

Lori Gunn, Regional Services Program Coordinator
Panhandle Regional Planning Commission
415 Southwest Eight Ave.
POB 9257
Amarillo, Texas 79105

Re: Type V Medical Waste Treatment Facility Registration Application Coordination
Diversified Waste Management, Inc. Amarillo, Potter County, Texas

Dear Ms. Gunn:

On behalf of our client, Diversified Waste Management, Inc., GDS Associates, Inc. would like to take this opportunity to inform you that we are preparing a registration application for the Texas Commission on Environmental Quality (TCEQ) for a Type V Registration for the operation of a medical waste processing facility. The facility will be located at 13511 Indian Road, Amarillo, Texas. Please review the Registration Application online at https://www.gdsassociates.com/txprojects/, at your convenience. In accordance with 30 Texas Administrative Code (TAC) §326.71(g), the owner or operator shall submit documentation that the application was submitted for review to the applicable council of governments for compliance with regional solid waste plans.

If the Panhandle Regional Planning Commission has any comments or concurrence that the facility complies with the regional solid waste plan, please send them to me in writing via mail to 919 Congress Ave, Suite 1110, Austin, Texas 78701, or at Wade.Wheatley@GDSAssociates.com. Any comments or concurrence will be included as a supplement to the application. If the project will be considered at a meeting of the Panhandle Regional Planning Commission solid waste advisory committee, please advise as soon as possible so that arrangements can be made to attend.

Thank you for your time and assistance. If you have any questions or need any additional information, please contact the Assistant Project Manager, Jack Simmons at 512-541-3131 or via e-mail at Jack.Simmons@GDSAssociates.com or you may contact me at 512-541-3160.

Sincerely,

Wade M. Wheatley, P.E.

Enclosure
**TCEQ Core Data Form**

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

### SECTION I: General Information

1. **Reason for Submission** (If other is checked please describe in space provided.)
   - ☐ New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)
   - ☐ Renewal (Core Data Form should be submitted with the renewal form)
   - ☐ Other

2. **Customer Reference Number (if issued)**
   - CN 604112805

3. **Regulated Entity Reference Number (if issued)**
   - RN

### SECTION II: Customer Information

4. **General Customer Information**
   - ☐ New Customer
   - ☐ Update to Customer Information
   - ☐ Change in Regulated Entity Ownership
   - ☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

   The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

5. **Effective Date for Customer Information Updates** (mm/dd/yyyy)

6. **Customer Legal Name** (If an individual, print last name first: eg: Doe, John)
   - If new Customer, enter previous Customer below:
   - Diversified Waste Management, Inc.

7. **TX SOS/CPA Filing Number**
   - 0801521417

8. **TX State Tax ID** (11 digits)
   - 32046040120

9. **Federal Tax ID** (9 digits)
   - 900780407

10. **DUNS Number** (if applicable)

### 11. Type of Customer:

- ☐ Corporation
- ☐ Individual
- Partnership: ☐ General ☐ Limited

   Government:
   - ☐ City ☐ County ☐ Federal ☐ State ☐ Other
   - ☐ Sole Proprietorship ☐ Other:

### 12. Number of Employees:

- ☐ 0-20
- ☐ 21-100
- ☐ 101-250
- ☐ 251-500
- ☐ 501 and higher

### 13. Independently Owned and Operated?

- ☐ Yes
- ☐ No

### 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:

- ☐ Owner
- ☐ Operator
- ☐ Owner & Operator
- ☐ Occupational Licensee
- ☐ Responsible Party
- ☐ Voluntary Cleanup Applicant
- ☐ Other:

### 15. Mailing Address:

- 13511 Indian Hill Rd.

<table>
<thead>
<tr>
<th>City</th>
<th>Amarillo</th>
<th>State</th>
<th>TX</th>
<th>ZIP</th>
<th>ZIP + 4</th>
</tr>
</thead>
</table>

### 16. Country Mailing Information (if outside USA)

### 17. E-Mail Address (if applicable)

### 18. Telephone Number

( 806 ) 371-0120

### 19. Extension or Code

### 20. Fax Number (if applicable)

( ) -

### SECTION III: Regulated Entity Information

21. **General Regulated Entity Information** (If ‘New Regulated Entity’ is selected below this form should be accompanied by a permit application)

- ☐ New Regulated Entity
- ☐ Update to Regulated Entity Name
- ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)

22. **Regulated Entity Name** (Enter name of the site where the regulated action is taking place.)

Diversified Waste Management
23. Street Address of the Regulated Entity: (No PO Boxes) 13511 Indian Hill Rd.

| City | Amarillo | State | TX | ZIP | 79124 | ZIP + 4 |

24. County Potter

25. Description to Physical Location:

26. Nearest City Amarillo

| Nearest ZIP Code | 79124 |

27. Latitude (N) In Decimal: 35.190972

<table>
<thead>
<tr>
<th>Degrees</th>
<th>Minutes</th>
<th>Seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>11</td>
<td>27.5</td>
</tr>
</tbody>
</table>

28. Longitude (W) In Decimal: -101.996222

<table>
<thead>
<tr>
<th>Degrees</th>
<th>Minutes</th>
<th>Seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>59</td>
<td>46.4</td>
</tr>
</tbody>
</table>

29. Primary SIC Code (4 digits) 4953

30. Secondary SIC Code (4 digits) 4212

31. Primary NAICS Code (5 or 6 digits) 562219

32. Secondary NAICS Code (5 or 6 digits) 562991

33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)

Medical waste treatment, storage, and transfer

34. Mailing Address: 13511 Indian Hill Rd.

| City | Amarillo | State | TX | ZIP | 79124 | ZIP + 4 |

35. E-Mail Address:

36. Telephone Number (806) 371-0120

37. Extension or Code:

38. Fax Number (if applicable) ( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

- Dam Safety
- Districts
- Edwards Aquifer
- Emissions Inventory Air
- Industrial Hazardous Waste
- Municipal Solid Waste
- New Source Review Air
- OSSF
- Petroleum Storage Tank
- PWS
- Sludge
- Storm Water
- Title V Air
- Tires
- Used Oil
- Voluntary Cleanup
- Waste Water
- Wastewater Agriculture
- Water Rights
- Other:

SECTION IV: Preparer Information

40. Name: Jack Simmons

41. Title: Geoscientist

42. Telephone Number (512) 541-3131

43. Ext./Code:

44. Fax Number ( ) -

45. E-Mail Address jack.simmons@gdsassociates.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II. Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company: Diversified Waste Management, Inc.

Job Title: Owner

Name (In Print): 

Signature: 

Phone: (806) 371-0120

Date: 01/03/2020
ATTACHMENT 18

FEE RECEIPT OR COPY OF CHECK
From: steers@tceq.texas.gov
Sent: Thursday, January 2, 2020 4:11 PM
To: Jack Simmons
Subject: TCEQ ePay Receipt for 582EA000370536

EXTERNAL EMAIL - Use caution before opening attachments or clicking links.

This is an automated message from the TCEQ ePay system. Please do not reply.
Trace Number: 582EA000370536
Date: 01/02/2020 04:10 PM
Payment Method: CC - Authorization 000001618C Amount Paid: $150.00

Actor: Jack Simmons
Email: jack.simmons@gdsassociates.com

Payment Contact: Jack Simmons
Phone: 512-541-3131
Company: Gds Associates Inc
Address: 919 Congress Ave Suite 1110, Austin, TX 78701

Fees Paid:
Fee Description AR Number Amount
NONHAZARDOUS WASTE PERMIT - MODIFICATIONS $100.00
30 TAC 305.53B HWP NOTIFICATION FEE $50.00

Total Fees For Transaction: $150.00

Voucher: 445606
Trace Number: 582EA000370536
Date: 01/02/2020 04:10 PM
Payment Method: CC - Authorization 000001618C Amount Paid: $100.00 Fee Paid: NONHAZARDOUS WASTE PERMIT - MODIFICATIONS Site Name: DIVERSIFIED WASTE MANAGEMENT Site Address: 13511 INDIAN HILL RD, AMARILLO, TX 79124 Site Location: LAT 35.190972 LONG -101.996222 CN Number: CN604112805 Customer Name: DIVERSIFIED WASTE MANAGEMENT INC Customer Address: 13511 INDIAN HILL RD, AMARILLO, TX 79124 Billing Name: JACK SIMMONS

Voucher: 445607
Trace Number: 582EA000370536
Date: 01/02/2020 04:10 PM
Payment Method: CC - Authorization 000001618C Amount Paid: $50.00 Fee Paid: 30 TAC 305.53B HWP NOTIFICATION FEE

To print out a copy of the receipt and vouchers for this transaction either click on or copy and paste the following url into your browser:
This e-mail transmission and any attachments are believed to have been sent free of any virus or other defect that might affect any computer system into which it is received and opened. It is, however, the recipient's responsibility to ensure that the e-mail transmission and any attachments are virus free, and the sender accepts no responsibility for any damage that may in any way arise from their use.
ATTACHMENT 19

MANUFACTURER SPECIFICATIONS FOR WASTE MANAGEMENT UNITS
Series 400 Steam Boiler Sample Specifications (30-1500HP, 15-300 Psi)

1.0 Boiler Characteristics

1.1 The boiler shall be Hurst Boiler & Welding Co., Inc., Series 400 100 hp designed for 150 psig. The boiler operating pressure shall be 120 psi.

1.2 The boiler shall have a maximum output of 3,348,000 Btu/hr, or 100 boiler horsepower when fired with oil or natural gas, 1,000 Btu/cu. ft. Electrical power available shall be 480 volt 60 hz cycle 3 phase.

2.0 General Boiler Design

2.1 The boiler shall be a three-pass wetback horizontal firetube type boiler with five (5) square feet of fireside heating surface per rated boiler horsepower. It shall be mounted on a heavy steel frame with integral forced draft burner and burner controls.

2.2 The boiler shall be completely preassembled, and fire tested at the factory. The unit shall be ready for immediate mounting on floor or simple foundation and ready for attachment of water, fuel, electrical, vent, and blowdown connections.

2.3 The boiler shall be built to comply with the following insurance and codes: UL, GE GAP, and ASME CSD-1.

3.0 Pressure Vessel Construction

3.1 Pressure Vessel shall provide for heavy metal thickness for increased boiler life and have a 0.5” thick shell, 0.75” thick tube sheet, 0.625” thick rear turn around and 12 gauge (0.105”) thick tubes.

3.2 The pressure vessel is built in strict accordance with ASME code section I and to latest year of issue and addendas. Manufacturer's quality control department performs all tests of materials and fabrication with a licensed authorized inspector in accordance with the N.B.I.C. code. Completed pressure vessel is post weld heat-treated where required and shop hydrostatically tested to ASME code requirements and issued a national board number and an ASME P-2 data report which is furnished to the purchaser at time of shipment.

3.3 The boiler shall be furnished with four (4) 3” x 4” handholes in the boiler shell. One (1) 12” x 16” manhole is to be provided. Provide a plugged coupling in the front tube sheet to provide for furnace tube inspection. Two lifting lugs must be located on top of the boiler.
3.4 The front and rear doors shall be hinged and daved on units 60 HP and larger. Doors are to be sealed with heat resistant gaskets and fastened using lugs and brass nuts. Design doors so front and rear tube sheets and all flues are fully accessible for inspection and cleaning when doors are open.

3.5 Provide a baffle in the boiler shell below the main steam outlet flange to provide for dry steam with no water carry over. Provide a baffle at the feedwater inlet to temper the water.

3.6 Provide the boiler for future use as a hot water boiler by including all vessel connections and provisions for future addition of hot water supply and return piping with a baffled connection, temperature controls, safety relief valves, and temperature and pressure gauges.

3.7 The exhaust gas vent shall be located at the front of the boiler and be capable of supporting 2,000 pounds. The boiler vent shall include a locking blade damper and a stack thermometer.

3.8 Provide observation ports at each end of the boiler for inspection of flame conditions. Provide a plugged test port at the rear of the furnace for testing of furnace backpressure.

3.9 Unit shall be provided with minimum 2" thick mineral wool insulation. The boiler shall be lagged with a 22-gauge thick carbon steel jacket. The boiler jacket shall feature a bottom side primer of polyurethane resin base coat of .2 mil. dry finish thickness and a final coat of .4 mil. dry finish thickness and a final coat of .8 mil. dry finish thickness of valspar polyurethane resin based paint. The application of the paint is to be automated roller type and is to be oven dried. The exterior finish of the boiler jacket shall have a limited warranty by the manufacturer for five (5) years from date of manufacture for chalking, fade, peeling, or blistering.

3.10 The entire boiler base frame and other components shall be factory painted before shipment using a hard-finish enamel coating.

3.11 Boilers with furnace diameter exceeding 34" must have a corrugated furnace constructed of not less than 0.355" thick steel. Furnace heat release shall not exceed ____ btu per cubic foot of furnace volume. Provide a refractory plug in rear turn around for inspection and access to the furnace.

4.0 Steam Boiler Trim

4.1 Water Column
A water column shall be located on the right-hand side of the boiler complete with gauge glass set, and water column blowdown valve. Provide a gauge glass protector.
4.2 Low Water Cutoff
The low water cutoff shall be included and wired into the burner control circuit to prevent burner operation if the boiler water level falls below a safe operating level. Use a McDonnell & Miller 157 S.

4.3 Auxiliary Low Water Cutoff
Auxiliary low water cutoff shall be included and wired to the burner control circuit. A manual reset device shall be used on this control. Use a McDonnell Miller 750-MT-120.

4.4 Safety Valves
Safety valves of a type and size to comply with ASME Code requirements shall be shipped loose. Provide a drip pan elbow for each valve for installation by the installing contractor.

4.5 Steam Pressure Controls
The steam pressure control to regulate burner operation shall be mounted near the water column. Controls shall be a high limit (manual reset), operating limit (auto reset), and firing rate control. Provide auto low fire hold aquastat with high pressure well.

4.6 Boiler Valves

4.6.1 Provide a ¾” stainless steel chemical feed quill with a built-in check valve, factory mounted on boiler.

4.6.2 Provide a 316 stainless steel water sample cooler, factory mounted on boiler.

4.6.3 Provide factory mounted feedwater stop and check valves.

4.6.4 Provide factory mounted and piped bottom blowdown assembly including two (2) quick opening and one (1) slow opening blowdown valves, all piped to a common blowdown header discharge at the rear of the boiler.

4.6.5 Provide a top mounted surface blowdown assembly including a factory supplied and mounted skimmer tube, and an automatic surface blowdown controller which opens and closes a motorized valve based on intermittent operator selected intervals measuring the conductivity of the boiler water.

4.6.6 A factory supplied main steam valve group shall include a reducing spool piece, stop-check, angle non-return valve, a free blow tapping and test valve, and an O S & Y gate valve. All shall be factory hydro tested with the boiler and included on the ASME P6 data report.
5.0 Burner General

5.1 The combination burner shall be of the forced draft annular port flame retention type suitable for burning natural or manufactured gas and air atomizing burning No. 2 oil. The burner shall burn the specified quantity of fuel without objectionable vibrations, noise, or pulsation with no CO in the products of combustion. The burner shall meet <30 ppm Nox while firing on natural gas utilizing flue gas recirculation technology. The burner shall be factory installed and wired, shall bear the listing mark of Underwriters Laboratories, Inc. evidencing compliance with the requirements of the UL-796 for gas burners and UL-296 for oil burners. The entire boiler and burner shall be factory fire tested prior to shipment with a copy of the fire test being supplied to the owner.

5.2 Burner Design
A burner fan shall furnish all combustion air, which shall be an integral part of the burner. The burner fan and motor shall be mounted below the horizontal centerline of the boiler for ease of maintenance and inspection. The burner air controls louver shall be of the low-pressure drop, inlet type to allow visual checking of the louver settings, and ease of cleaning or adjustment. The burner shall have an air flow safety switch to prove combustion flow. The burner shall have an interrupted gas-electric ignition system with a 6,000-volt ignition transformer. An observation port shall be provided in the burner to provide observation of both the pilot and main flame.

5.3 Gas Pilot
The gas pilot shall be the premix type with automatic electric ignition, complete with electronic flame scanner to monitor the pilot so the primary fuel valve cannot open until pilot flame has been established. The gas pilot train is to consist of shut-off cock, pressure regulator, and automatic gas valve.

5.4 Gas Train
The main gas train shall be mounted on the boiler and shall include the following: A manually operated gas cock at the inlet to the train, a gas pressure reducing regulator, a motorized automatic gas valve, a second automatic gas valve, and a manually operated leak test cock, pressure regulator, and automatic gas valve.

6.0 Fuel Oil System

6.1 Oil Pump
The oil pump set shall consist of an oil pump with a capacity of twice the firing rate of the boiler, and motor mounted on a base. The oil pump assembly shall also have the following: oil pressure relief valve, suction strainer, vacuum and pressure gauge, and motor starter. The oil pump assembly shall ship loose for field installation.
6.2 Oil Piping
The oil burner piping shall include automatic oil safety valve, oil metering valve, fuel filter, and all necessary piping, and linkages for full modulation operation, all mounted and piped on the unit. Pressure gauge shall be provided to indicate oil pressure and air atomizing pressure. The unit shall have a low air pressure switch interlocked to prevent burner operation in the event of air pressure failure.

6.3 Control Panel
The factory pre-wired control panel should be mounted on the burner proper or on the side of the boiler to allow for ease of maintenance and troubleshooting. The control panel shall contain the following items: Electronic flame safeguard, control circuit transformer, motor starter, control circuit fuse, numbered terminal strips, and indicating lamps for major functions. The control panel shall include a manual-automatic selector switch and a damper motor positioning switch to permit automatic firing in accordance with load demand or manual control of the firing rate at any desired point between low fire and maximum rate. Changeover from one fuel to the other shall be accomplished by flipping a switch. No burner adjustment or linkage change shall be necessary when going from one fuel to the alternate fuel. The electronic flame safeguard shall be complete with all necessary accessories and devices to control ignition and starting and stopping of the burner, to provide pre-combustion purge and post-combustion purge, and to shut down the burner on failure of ignition, pilot, or main flame by the electronic scanner.

6.4 Codes and Standards
The boiler shall be inspected by an authorized inspector and be registered with the National Board of Boiler and Pressure Vessel Inspectors. The packaged boiler shall carry an Underwriters Laboratory label “B.” The boiler-burner unit shall meet the requirements of U.L (U.L. or F.M. or GE Global).

7.0 Efficiency Guarantee

7.1 The boiler must be guaranteed to operate at a minimum fuel-to-steam efficiency of 85 at 100% of rating when burning natural gas and n/a fuel-to-steam efficiency at 100% firing rate when burning oil.

8.0 Warranty

8.1 All equipment is to be guaranteed against defects in materials and/or workmanship for a period of 12 months from date of shipment.
9.0 Execution

9.1 Tests
The packaged boiler must receive factory tests to check the construction, controls, and operation of the unit. The purchaser, if desired may witness all tests.

9.2 Start-up Service
After boiler installation is completed; the manufacturer shall provide the services of a field representative for starting the unit and training the operator at no additional costs. A factory approved and authorized start-up report shall be submitted to the customer/user at the time of start-up.
AUTOCLAVE PROCESSING UNIT
Mark-Costello Waste Sterilizers

✓ Gravity OR Vacuum High Pressure Sterilizer Technology
✓ Designed for Low Maintenance and Low Operating Costs
✓ Pre-Treatment Shredding NOT Required
✓ MC Vapor Mist Proven Odor Control System
✓ Up to 3,000 lbs Capacity per Cycle Throughput
✓ Over 500 Clients Trust MC Sterilizers for Waste Sterilization

THE MARK-COSTELLO CO.
 Systems and Solutions Since 1956
## Waste Volume-System Capacities
### Standard Sterilizers

<table>
<thead>
<tr>
<th>Interior Dimensions</th>
<th>Number of Carts</th>
<th>Cubic Yards</th>
<th>Total Pounds/kg Approx</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model AS 23 2' diameter x 3' length</td>
<td>Hand Loaded</td>
<td>.333 cubic yards</td>
<td>50 pounds (22 kgs)</td>
</tr>
<tr>
<td>Model AS36 3' diameter x 6' length</td>
<td>Hand Loaded</td>
<td>1.5 cubic yards</td>
<td>225 pounds (102kgs)</td>
</tr>
<tr>
<td>Model AS47 4' diameter x 7' length</td>
<td>3 Standard Carts</td>
<td>3.0 cubic yards</td>
<td>450 pounds (204kgs)</td>
</tr>
<tr>
<td>Model AS58 5' diameter x 8' length</td>
<td>3 Standard Carts</td>
<td>3.75 cubic yards</td>
<td>565 pounds (256kgs)</td>
</tr>
<tr>
<td>Model AS510 5' diameter x 10' length</td>
<td>4 Standard Carts</td>
<td>5 cubic yards</td>
<td>750 pounds (340kgs)</td>
</tr>
<tr>
<td>Model AS513 5' diameter x 13' length</td>
<td>5 Standard Carts</td>
<td>6.25 cubic yards</td>
<td>938 pounds (425kgs)</td>
</tr>
<tr>
<td>Model AS515 5' diameter x 15' length</td>
<td>6 Standard Carts</td>
<td>7.5 cubic yards</td>
<td>1,125 pounds (510kgs)</td>
</tr>
<tr>
<td>Model AS515DD Double Doors 5' diameter x 15' length</td>
<td>3 High Volume Carts</td>
<td>7.5 cubic yards</td>
<td>1,125 pounds (510kgs)</td>
</tr>
<tr>
<td>Model AS520DD 5' diameter x 20' length</td>
<td>4 High Volume Carts</td>
<td>10 cubic yards</td>
<td>1,500 pounds (680 kgs)</td>
</tr>
<tr>
<td>Model AS525DD 5' diameter x 25' length</td>
<td>5 High Volume Carts</td>
<td>12.5 cubic yards</td>
<td>1,875 pounds (850 kgs)</td>
</tr>
<tr>
<td>Model AS530DD 5' diameter x 30' length</td>
<td>6 High Volume Carts</td>
<td>15 cubic yards</td>
<td>2,250 pounds (1,020 kgs)</td>
</tr>
<tr>
<td>Model AS620DD 6' diameter x 20' length</td>
<td>3 XL-High Volume Carts</td>
<td>12 cubic yards</td>
<td>1,800 pounds (816 kgs)</td>
</tr>
<tr>
<td>Model AS634DD 6' diameter x 34' length</td>
<td>5 XL-High Volume Carts</td>
<td>20 cubic yards</td>
<td>3,000 pounds (1,361 kgs)</td>
</tr>
</tbody>
</table>

_Carbon or Stainless Steel Vessels-Carts Include Heat Resistant Casters_

*Waste based on 150 lbs. per yard-Carts heaped/mounded when loaded

---

### Mark-Costello Standard Features....

- **Exclusive Wedge-Lock Door Design**
- **Front Mounted Sump Drain**
- **Quadruple Door Lock Safety Mechanism**
- **Silicon Door Gasket**
- **U.L. Labeled Digital Recorder Controller**
- **Stainless Steel Basket Strainer**
- **MC-Condensate Assembly**
- **Fully Insulated**

**SAFE • RELIABLE • ECONOMICAL • DURABLE**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>36</td>
<td>36</td>
<td>42</td>
<td>42</td>
<td>42</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>B</td>
<td>36</td>
<td>36</td>
<td>43</td>
<td>43</td>
<td>43</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>C</td>
<td>49</td>
<td>49</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td>D</td>
<td>48</td>
<td>48</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>E</td>
<td>59 1/2</td>
<td>83 1/2</td>
<td>83 1/2</td>
<td>107 1/2</td>
<td>131 1/2</td>
<td>143 1/2</td>
<td>167 1/2</td>
</tr>
<tr>
<td>F</td>
<td>10 5/8</td>
<td>10 5/8</td>
<td>11 1/2</td>
<td>11 1/2</td>
<td>11 1/2</td>
<td>11 1/2</td>
<td>11 1/2</td>
</tr>
<tr>
<td>G</td>
<td>45</td>
<td>45</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>H</td>
<td>62</td>
<td>62</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>L</td>
<td>102</td>
<td>126</td>
<td>131</td>
<td>155</td>
<td>179</td>
<td>191</td>
<td>215</td>
</tr>
<tr>
<td>M</td>
<td>10</td>
<td>10</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>N</td>
<td>66</td>
<td>66</td>
<td>78</td>
<td>78</td>
<td>78</td>
<td>78</td>
<td>78</td>
</tr>
<tr>
<td>R</td>
<td>17</td>
<td>17</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>T</td>
<td>36</td>
<td>36</td>
<td>43</td>
<td>43</td>
<td>43</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>U</td>
<td>72</td>
<td>72</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>DO</td>
<td>51</td>
<td>51</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>OL</td>
<td>148</td>
<td>172</td>
<td>187</td>
<td>211</td>
<td>235</td>
<td>247</td>
<td>271</td>
</tr>
<tr>
<td>OAL</td>
<td>172</td>
<td>202</td>
<td>218</td>
<td>250</td>
<td>262</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

![Diagram of cylindrical tank with dimensions labeled](image-url)
TUNNEL CONTAINER WASHER
Nord Sorenson

Standard Flow Thru Washer

Dimensions: 31' L x 7' W x 7' H Belt load height 37"

Wash and Rinse Area: 36" W x 48" H

Vestibules: 2' 6" Entry - 8' Wash – 3' Cell – 5' Rinse – 2' 6" Exit

Conveyor Belt: Heavy duty 36" W x 1" x 1" openings
100lbs per foot weight capacity

Conveyor Drive: Variable gear reduction 1-3/4" shafts, 0-10' per minute

Pumps: 2 ea. Vertical 15hp. 220v 3 phase
1 ea. Vertical 5hp 220v 3 phase rinse pump

Pump Capacity: 150gpm / 5hp 90gpm

Spray Manifolds: 4 – Top / 7 – Sides / 4 – Bottoms
2" Plumbing throughout

Spray Nozzles: 90 Stationary brass nozzles / 45-60 psi
30 Stationary brass nozzles 35-45 psi

"Good service is remembered long after the price is forgotten"
**Spray Containment:**
7 - Neoprene baffle curtains

**Solution Heating:**
Pic Heater
Steam Pressure must not exceed 125 psi or a regulator must be installed by customer

**Electrical:**
100-amp service required
Safety disconnect
Digital temperature gauge & control
Emergency stops / entry and exit
Safety switch on inspection door
Automatic water fill
Low water shut off
Motors are double protected from overloads

**Cabinet Construction:**
7ga Steel insulated
1 ea. Cabinet inspection door

**Tank Construction:**
500 gallon reservoir (insulated)
350 gallon rinse reservoir (insulated)
7ga Steel
Sloped bottom for sludge removal

**Ecology Package:**
2 ea. Manual sludge drag out chutes

**Options:**
Inline filter canister for wash pump
10' Extension in front
UHMW belting strips
Built in Steam exhaust
3 ea. guide rails
6 ft extension front and rear

**Shipping Weight:**
6,121 lbs. F.O.B. Wichita, KS 67213
WASTE SHREDDER
Vecoplan New Generation VAZ Shredders

The New Generation VAZ
Vecoplan’s tradition of unrivaled quality, service and innovation continues with the latest in our line of low speed, high torque single shaft rotary shredders - the “New Generation” VAZ models.

Vecoplan’s New Generation shredders incorporate a wide range of innovations that improve performance, increase durability and decrease maintenance time. These features and options include:

- Cardan Shaft Drives
- Double Sidewalls
- Reversible Counter Knives
- Rotatable Screens
- Optional Hydraulic Swing-Up Screen Carriages
- Optional Externally Adjustable Counter Knives.

Innovative Features - Standard

Cardan Shaft Direct Drive
The unique and innovative cardan shaft drive replaces the traditional belt drive system. This direct drive system eliminates drive belts, lowers maintenance costs and decreases overall machine and machine base widths, provides vast improvements in efficiency, operation and maintenance:

- Lower maintenance costs and no tensioning of the ‘V-Belt’
- No risk of alignment failure
- No wear on the belt drive, eliminating the risk and cause of many fires
- Machine width is reduced giving the same capacity machine with a smaller footprint.
- Maintenance and clean-up around the base of the machine is simpler.
Double Side Walls
The double side wall design significantly reduces wear and abrasion on the machine by putting a gap between the end of the rotor and the machine side wall. The gap is sized to prevent material from getting stuck in between the rotor and the machine housing while also allowing any material that does get in there to easily fall-out or be removed during clean-out.

- Higher operational reliability and lower wear costs.
- Screwed wear rings at the rotor and in the side wall simplifies their replacement.
- No smearing of material between the two surfaces reduces risk of fire.
- No thermal transfer between the rotor and the bearings.
- Considerably easier and quicker clean-out.

Reversible Bed Knife
Reversible counter knives located in the bed of the cutting chamber deliver twice the life while cutting replacement costs in half. No need to replace bedknives when they begin to wear - simply flip them to expose a completely new cutting surface.
**AVAILABLE FILM / FIBER ROTOR**

For Shredding Of Most Flexible, High-Tenacity Materials That Tend To “Self-Feed”

- Torque arm with disc springs to “shock absorb” gearbox. Equipped with a “shut down” switch to limit damage from tramp metal.
- Double sidewalks prevent bearing contamination and sidewall wear.
- Flanged discharge to accommodate an assortment of pneumatic and mechanical conveyance systems.
- Axial has a replaceable counter knife plate with close tolerance profile. The axial stabilizes and anchors the grinding process.
- Reversible and adjustable counter knives deliver twice the operating life.
- Optional externally adjustable counter knives to easily maintain tolerances.

**OPTIONS:**

- Quick Disconnect & Quick Clean Screens
- Multiple Rotor Configurations
- Multiple Cutter Insert Sizes
- Special Purpose Screens
- Hydraulic, “BridgeBreaker” Vertical Feed Ram
- Airspring Counterknife for High Tramp Metal Content

**Patented**

- “SureCut” (patented) cutting system with built-in 2-stage auxiliary reduction
- Special reinforced, close tolerance screen
- Special “wedge” adjustable counter knife

**Denotes A Vecoplan Exclusive**

- Oversized, shaft-mounted reduction gearbox rated with extreme-duty service and safety factors.
- Optional hydraulic assisted screen carriage for quick and easy screen changes and simplified maintenance.
- Oversized, shaft-mounted reduction gearbox rated with extreme-duty service and safety factors.
- Hinged clean-out access doors with safety switches to access screen and cutting rotor for machine maintenance.

**HEAVY SHELF OVER RAM CAVITY**

Heavy shelf over ram cavity to protect hydraulic cylinders from impact.

**HEAVY DUAL CUSHIONED HYDRAULIC CYLINDERS**

Heavy dual cushioned hydraulic cylinders to advance process ram. Cylinders are secured with reinforced, vibration dampening clamps.

**HARDOX™ “PROCESS RAM” PROVIDES PRECISION FEED OF MATERIAL TO CUTTING ROTOR. RAM QUICKLY ADJUSTS TO DIFFERENT LOAD VARIABLES TO MAXIMIZE PROCESSING EFFICIENCY.**

**ANVIL HAS A REPLACEABLE COUNTER KNIFE PLATE WITH CLOSE TOLERANCE PROFILE. THE ANVIL STABILIZES AND ANCHORS THE GRINDING PROCESS.**

**HIGH QUALITY, DOUBLE ROW, SELF-ALIGNING SPHERICAL PENDULUM ROLLER BEARINGS MOUNTED OUTBOARD FOR EASE OF MAINTENANCE AND PREVENTION OF CONTAMINATION.**

**DUAL SIDEWALLS PREVENT BEARING CONTAMINATION AND SIDEWALL WEAR.**

**HINGED CLEAN-OUT ACCESS DOORS WITH SAFETY SWITCHES TO ACCESS SCREEN AND CUTTING ROTOR FOR MACHINE MAINTENANCE.**

**TORSION ARM WITH DISC SPRINGS TO “SHOCK ABSORB” GEARBOX. EQUIPPED WITH A “SHUT DOWN” SWITCH TO LIMIT DAMAGE FROM TRAMP METAL.**

**DOUBLE SIDEWALLS PREVENT BEARING CONTAMINATION AND SIDEWALL WEAR.**

**FLANGED DISCHARGE TO ACCOMMODATE AN ASSORTMENT OF PNEUMATIC AND MECHANICAL CONVEYANCE SYSTEMS.**

**AXIAL HAS A REPLACEABLE COUNTER KNIFE PLATE WITH CLOSE TOLERANCE PROFILE. THE AXIAL STABILIZES AND ANCHORS THE GRINDING PROCESS.**

**REVERSIBLE AND ADJUSTABLE COUNTER KNIVES DELIVER TWICE THE OPERATING LIFE.**

**OPTIONAL EXTERNALLY ADJUSTABLE COUNTER KNIVES TO EASILY MAINTAIN TOLERANCES.**

**HIGH QUALITY, DOUBLE ROW, SELF-ALIGNING SPHERICAL PENDULUM ROLLER BEARINGS MOUNTED OUTBOARD FOR EASE OF MAINTENANCE AND PREVENTION OF CONTAMINATION.**

**VECOPLAN’S “U” ROTOR**

Developed and Patented by Vecoplan. The industry’s most successful cutting rotor design.

- The cutting rotor has been engineered for durability and carries a Limited Lifetime Warranty. Cutting inserts are precision fit for easy maintenance.
- Rotors are available in several diameters dependent on throughput requirements.

**HINGED COVER PROVIDES PROTECTION TO RAM DRIVE CYLINDERS AND ALLOWS EASY ACCESS FOR ROUTINE MAINTENANCE.**

**HEAVY SIDE WALLS, BRACES AND REINFORCEMENTS ROBOTICALLY WELDED FOR STRESS-FREE CONSTRUCTION.**

**OVERSIZED, SHAFT-MOUNTED REDUCTION GEARBOX RATED WITH EXTREME-DUTY SERVICE AND SAFETY FACTORS.**

**OPTIONAL HYDRAULIC ASSISTED SCREEN CARRIAGE FOR QUICK AND EASY SCREEN CHANGES AND SIMPLIFIED MAINTENANCE.**

**QUICK CHANGE OVERSIZED RAM GUIDE RAILS REMOVABLE FROM THE EXTERIOR OF THE MACHINE.**

**HIGH QUALITY, PREMIUM EFFICIENCY DRIVE MOTORS.**

Direct drive provides more torque, a smaller footprint and less maintenance than belt-drive systems.

**HIGH QUALITY, PREMIUM EFFICIENCY DRIVE MOTORS.**

- Direct drive provides more torque, a smaller footprint and less maintenance than belt-drive systems.
- Torque arm with disc springs to “shock absorb” gearbox. Equipped with a “shut down” switch to limit damage from tramp metal.
- Double sidewalks prevent bearing contamination and sidewall wear.
- Flanged discharge to accommodate an assortment of pneumatic and mechanical conveyance systems.
- Axial has a replaceable counter knife plate with close tolerance profile. The axial stabilizes and anchors the grinding process.
- Reversible and adjustable counter knives deliver twice the operating life.
- Optional externally adjustable counter knives to easily maintain tolerances.

**OPTIONS:**

- Quick Disconnect & Quick Clean Screens
- Multiple Rotor Configurations
- Multiple Cutter Insert Sizes
- Special Purpose Screens
- Hydraulic, “BridgeBreaker” Vertical Feed Ram
- Airspring Counterknife for High Tramp Metal Content

**HINGED CLEAN-OUT ACCESS DOORS WITH SAFETY SWITCHES TO ACCESS SCREEN AND CUTTING ROTOR FOR MACHINE MAINTENANCE.**

**OVERSIZED, SHAFT-MOUNTED REDUCTION GEARBOX RATED WITH EXTREME-DUTY SERVICE AND SAFETY FACTORS.**

**OPTIONAL HYDRAULIC ASSISTED SCREEN CARRIAGE FOR QUICK AND EASY SCREEN CHANGES AND SIMPLIFIED MAINTENANCE.**

**QUICK CHANGE OVERSIZED RAM GUIDE RAILS REMOVABLE FROM THE EXTERIOR OF THE MACHINE.**

**HIGH QUALITY, DOUBLE ROW, SELF-ALIGNING SPHERICAL PENDULUM ROLLER BEARINGS MOUNTED OUTBOARD FOR EASE OF MAINTENANCE AND PREVENTION OF CONTAMINATION.**

**VECOPLAN’S “U” ROTOR**

- Available from 3/8” to 6” add economical production of consistent sized particles in one pass.
- Heavy shelf over ram cavity to protect hydraulic cylinders from impact.
- Heavy dual cushioned hydraulic cylinders to advance process ram. Cylinders are secured with reinforced, vibration dampening clamps.

**HARDOX™ “PROCESS RAM” PROVIDES PRECISION FEED OF MATERIAL TO CUTTING ROTOR. RAM QUICKLY ADJUSTS TO DIFFERENT LOAD VARIABLES TO MAXIMIZE PROCESSING EFFICIENCY.**

**ANVIL HAS A REPLACEABLE COUNTER KNIFE PLATE WITH CLOSE TOLERANCE PROFILE. THE ANVIL STABILIZES AND ANCHORS THE GRINDING PROCESS.**

**HIGH QUALITY, DOUBLE ROW, SELF-ALIGNING SPHERICAL PENDULUM ROLLER BEARINGS MOUNTED OUTBOARD FOR EASE OF MAINTENANCE AND PREVENTION OF CONTAMINATION.**

**DENOTES A Vecoplan Exclusive**

- The cutting rotor has been engineered for durability and carries a Limited Lifetime Warranty. Cutting inserts are precision fit for easy maintenance.
- Rotors are available in several diameters dependent on throughput requirements.

**HINGED COVER PROVIDES PROTECTION TO RAM DRIVE CYLINDERS AND ALLOWS EASY ACCESS FOR ROUTINE MAINTENANCE.**

**HEAVY SIDE WALLS, BRACES AND REINFORCEMENTS ROBOTICALLY WELDED FOR STRESS-FREE CONSTRUCTION.**

**OVERSIZED, SHAFT-MOUNTED REDUCTION GEARBOX RATED WITH EXTREME-DUTY SERVICE AND SAFETY FACTORS.**

**OPTIONAL HYDRAULIC ASSISTED SCREEN CARRIAGE FOR QUICK AND EASY SCREEN CHANGES AND SIMPLIFIED MAINTENANCE.**

**QUICK CHANGE OVERSIZED RAM GUIDE RAILS REMOVABLE FROM THE EXTERIOR OF THE MACHINE.**

**HIGH QUALITY, DOUBLE ROW, SELF-ALIGNING SPHERICAL PENDULUM ROLLER BEARINGS MOUNTED OUTBOARD FOR EASE OF MAINTENANCE AND PREVENTION OF CONTAMINATION.**

**VECOPLAN’S “U” ROTOR**

- Available from 3/8” to 6” add economical production of consistent sized particles in one pass.
- Heavy shelf over ram cavity to protect hydraulic cylinders from impact.
- Heavy dual cushioned hydraulic cylinders to advance process ram. Cylinders are secured with reinforced, vibration dampening clamps.

**HARDOX™ “PROCESS RAM” PROVIDES PRECISION FEED OF MATERIAL TO CUTTING ROTOR. RAM QUICKLY ADJUSTS TO DIFFERENT LOAD VARIABLES TO MAXIMIZE PROCESSING EFFICIENCY.**

**ANVIL HAS A REPLACEABLE COUNTER KNIFE PLATE WITH CLOSE TOLERANCE PROFILE. THE ANVIL STABILIZES AND ANCHORS THE GRINDING PROCESS.**

**HIGH QUALITY, DOUBLE ROW, SELF-ALIGNING SPHERICAL PENDULUM ROLLER BEARINGS MOUNTED OUTBOARD FOR EASE OF MAINTENANCE AND PREVENTION OF CONTAMINATION.**

**DENOTES A Vecoplan Exclusive**

- The cutting rotor has been engineered for durability and carries a Limited Lifetime Warranty. Cutting inserts are precision fit for easy maintenance.
- Rotors are available in several diameters dependent on throughput requirements.

**HINGED COVER PROVIDES PROTECTION TO RAM DRIVE CYLINDERS AND ALLOWS EASY ACCESS FOR ROUTINE MAINTENANCE.**

**HEAVY SIDE WALLS, BRACES AND REINFORCEMENTS ROBOTICALLY WELDED FOR STRESS-FREE CONSTRUCTION.**

**OVERSIZED, SHAFT-MOUNTED REDUCTION GEARBOX RATED WITH EXTREME-DUTY SERVICE AND SAFETY FACTORS.**

**OPTIONAL HYDRAULIC ASSISTED SCREEN CARRIAGE FOR QUICK AND EASY SCREEN CHANGES AND SIMPLIFIED MAINTENANCE.**

**QUICK CHANGE OVERSIZED RAM GUIDE RAILS REMOVABLE FROM THE EXTERIOR OF THE MACHINE.**

**HIGH QUALITY, DOUBLE ROW, SELF-ALIGNING SPHERICAL PENDULUM ROLLER BEARINGS MOUNTED OUTBOARD FOR EASE OF MAINTENANCE AND PREVENTION OF CONTAMINATION.**

**VECOPLAN’S “U” ROTOR**

- Available from 3/8” to 6” add economical production of consistent sized particles in one pass.
- Heavy shelf over ram cavity to protect hydraulic cylinders from impact.
- Heavy dual cushioned hydraulic cylinders to advance process ram. Cylinders are secured with reinforced, vibration dampening clamps.

**HARDOX™ “PROCESS RAM” PROVIDES PRECISION FEED OF MATERIAL TO CUTTING ROTOR. RAM QUICKLY ADJUSTS TO DIFFERENT LOAD VARIABLES TO MAXIMIZE PROCESSING EFFICIENCY.**

**ANVIL HAS A REPLACEABLE COUNTER KNIFE PLATE WITH CLOSE TOLERANCE PROFILE. THE ANVIL STABILIZES AND ANCHORS THE GRINDING PROCESS.**

**HIGH QUALITY, DOUBLE ROW, SELF-ALIGNING SPHERICAL PENDULUM ROLLER BEARINGS MOUNTED OUTBOARD FOR EASE OF MAINTENANCE AND PREVENTION OF CONTAMINATION.**

**DENOTES A Vecoplan Exclusive**

- The cutting rotor has been engineered for durability and carries a Limited Lifetime Warranty. Cutting inserts are precision fit for easy maintenance.
- Rotors are available in several diameters dependent on throughput requirements.
Externally adjustable counter knives allow you to maintain optimal cutting tolerances quickly and easily. This is especially beneficial when shredding thin materials.

- Increased capacity
- Reduced wear costs
- Safer operation when processing thin material

Swing-Up Screens

Hydraulic swing-up screen carriages provide quick and easy access to rotor for cutter replacements, tramp metal removal, and other routine maintenance. Rotatable screens can be turned 180° increasing wear life by a factor of 1.5.

- Simple route to the heart of the machine
- Quick access to replace cutters
- Fast screen changes

Externally Adjustable Bed Knife

Externally adjustable counter knives allow you to maintain optimal cutting tolerances quickly and easily. This is especially beneficial when shredding thin materials.

- Increased capacity
- Reduced wear costs
- Safer operation when processing thin material
### Vecoplan New Generation VAZ Shredders

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>VAZ 1300 S</th>
<th>VAZ 1300 M</th>
<th>VAZ 1300 M XL</th>
<th>VAZ 1300 L</th>
<th>VAZ 1600 S</th>
<th>VAZ 1600 S XL</th>
<th>VAZ 1600 M</th>
<th>VAZ 1600 M XL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hopper Opening (inch)</td>
<td>52 x 50</td>
<td>52 x 58</td>
<td>52 x 58</td>
<td>52 x 68</td>
<td>62 x 58</td>
<td>62 x 58</td>
<td>62 x 80</td>
<td>62 x 80</td>
</tr>
<tr>
<td>Hopper Volume (Cu. yards)</td>
<td>3.75</td>
<td>3.75</td>
<td>3.75</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>6.4</td>
<td>6.4</td>
</tr>
<tr>
<td>Rotor Diameter (inches)</td>
<td>15</td>
<td>15</td>
<td>20</td>
<td>15</td>
<td>15</td>
<td>20</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>No. of Cutters (qty)</td>
<td>37 / 60 (40x40)</td>
<td>37 / 60 (40x40)</td>
<td>37 / 60 (40x40)</td>
<td>35 / 60 (40x40)</td>
<td>42 / 74 (40x40)</td>
<td>42 / 74 (40x40)</td>
<td>42 / 74 (40x40)</td>
<td>42 / 74 (40x40)</td>
</tr>
<tr>
<td>Rotor Speed (rpm)</td>
<td>120 - 145</td>
<td>120 - 145</td>
<td>120</td>
<td>100 - 145</td>
<td>80 - 200</td>
<td>80 - 200</td>
<td>80 - 200</td>
<td>80 - 200</td>
</tr>
<tr>
<td>Drive Motor HP (HP)</td>
<td>60 - 100</td>
<td>60 - 150</td>
<td>100</td>
<td>60 - 100</td>
<td>60 - 150</td>
<td>75, 125, 150</td>
<td>60 - 150</td>
<td>125 - 150</td>
</tr>
<tr>
<td>Feed System (HP/Speed)</td>
<td>3-5 / 2</td>
<td>3-5 / 2</td>
<td>3-5 / 2</td>
<td>3-5 / 2</td>
<td>10/2</td>
<td>10/2</td>
<td>10/2</td>
<td>10/2</td>
</tr>
</tbody>
</table>

*For machines equipped with swing-up carriage option, add 18 inches.*
MDU Tech services, LLC - Shredder

<table>
<thead>
<tr>
<th>System / Unit</th>
<th>Design / style</th>
<th>Type / Model</th>
<th>Component / parameters</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shredder</td>
<td>MDU Tech Services</td>
<td>20 X 20 Medical waste</td>
<td>HP Rating, Reversible, Knife Thickness, Punched screen, Belts, Electrical Power Req.</td>
<td>20 Hp, Yes, 1.17, 2.2 - 4.0 In round holes, zero clearance, 4 dodge 5Vx850 belts, 480 VAC / 60Hz / 3 phase</td>
</tr>
</tbody>
</table>
WASTE COMPACTOR
Clean-Pak™ Series
Self-Contained Compactor

Ideal for food waste recycling

Clean-Pak™ Compactor

- Ideal for food recycling and medical waste applications
- Leading 5 year structural warranty
- 2 year parts warranty
- 1 year labor warranty

Food Recycling

- Clean and safe when servicing
- Shielded hydraulic cylinders and hoses
- Eliminates cleaning behind the ram
- Lasts longer

Medical Waste

- No contact with Blood Borne Pathogens (BBP)
- Prevents needle sticks

Advantages

- Safer for personnel when performing maintenance
- Never clean behind the ram again
- Hydraulic cylinders and hoses last longer

Easily accessible shielded hydraulic cylinders and hoses

Pivoting ram eliminates build up behind ram and is ideal for food recycling

Clean out port and internal hydraulic spill reservoir

Tel: 877.468.9278 | sales@wastequip.com | www.wastequip.com
Clean-Pak™ Compactor Specifications

**FEATURES**

**STANDARD**
- Guardian Control System
- Automatic Maintenance Scheduler (AMS)
- NEMA 4 enclosure
- Controls in panel face
- 5-year structural warranty
- 38-second cycle time
- Full container light
- Low temperature oil
- Multi-cycle timer
- Operational and service manual
- Primed and painted in several colors

**OPTIONS**
- Advance warning light
- Pressure gauge - color coded
- Controls on remote pendant in lieu of mounting in panel face
- Guide rails with stops
- Oil heater
- Photo electric eye
- Odor control system
- Container lifter

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Models</th>
<th>CP model (cu. yds.)</th>
<th>Overall length (A) (in.)</th>
<th>Container length (B) (in.)</th>
<th>Overall height (C) (in.)</th>
<th>Floor length (D) (in.)*</th>
<th>Width (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>208</td>
<td>110</td>
<td></td>
<td>100</td>
<td>207</td>
<td>102</td>
<td>8,550</td>
</tr>
<tr>
<td>25</td>
<td>238</td>
<td>140</td>
<td></td>
<td></td>
<td>237</td>
<td></td>
<td>8,900</td>
</tr>
</tbody>
</table>

**STANDARD**
- Wastec rating - 1.0 cubic yards
- Wastequip rating - 1.5 cubic yards
- Clear top opening - 36" Length x 39" Width

**Ram**
- 3/16" Domex steel with engineered structural reinforcements

**Compactor Head**
- Floor - 3/16" Domex steel 6" x 2" x 1/4" tube supports
- Sides - 3/16" steel plates with formed steel supports
- Sump - 12" height
- Side access panels, 12 ga, removable
- Pivotal wear UHMW collars

**Electrical**
- Electric motor - 10 hp TEFC (Totally Enclosed Fan Cooled)
- Voltage - 208/230/460, 3 phase, 60 HZ (optional 575V)
- Power box - NEMA 4 rated, UL listed
- Automated cycle operation - push start button-ram extends, retracts and stops automatically

**Hydraulic Specifications**
- Pump - 9.4 gpm
- Ram penetration - 3"
- Cycle time - 38 seconds
- Hydraulic cylinder - (2), cylinder bore - 3.5"
- Cylinder rod - 2.0"
- Hydraulic oil tank - 25 gallon reservoir
- Power unit location - remote

**Hydraulic Performance**
- Ram face pressure
  - Normal - 27,500 lbs
  - Maximum - 30,400 lbs

**Ram psi Face Pressure**
- Normal - 21.75 psi
- Maximum - 24.11 psi

**Operating pressure**
- Normal - 1,850 psi
- Maximum - 2,050 psi

**Container**
- 7 gauge floor with 3" channel crossmember
- 6" x 2" x 1/4" tube rails, 36-1/2"I.D. between rails
- Solid steel bullnose and hook at both ends
- 4" diameter rollers, 4-1/2" long
- Length, Width and Height - see chart above

**Standard Color Choices**

Colors shown are as accurate as printing allows. The actual color is subject to variation from the printed color sample. Color choices vary by plant location. Please contact your local sales representative for available colors. Custom colors are available upon request and are subject to an additional charge.

Tel: 877.468.9278 | sales@wastequip.com | www.wastequip.com

Wastequip is the leading North American manufacturer of waste and recycling equipment for collecting, processing and transporting recyclables and solid or liquid waste. April 2017 © Wastequip, all rights reserved. Specifications subject to improvement without notice. Equipment displayed should be operated by properly trained personnel. Operations should become familiar with OSHA, ANSI and any other applicable standards or laws for using this equipment. Improper use, misuse, or lack of maintenance could cause injury to people and/or property. Photos used in the literature are illustrative only. We assume no liability or responsibility for proper training/operation of equipment not manufactured by Wastequip. We reserve the right to make changes at any time without notice. Information contained within this literature is intended to be the most accurate available at time of printing.

WCP081-042019
ENDURA-VEYOR MODEL 600-STYLE D CONVEYOR SPECIFICATIONS:

* SLIDER BED BELT CONVEYOR (MODEL 600, STYLE D)
* FRAME CONSTRUCTION: 10 GAUGE BOLT-TOGETHER
* PULLEY DIAMETER: 6 IN. DIAMETER
* LOWER HORIZONTAL: 8.0 FT. LG.
* INCLINE: 7 FT. LG.
* UPPER HORIZONTAL: 2.5 FT. LG.
* 45 DEGREE CURVE
* EFFECTIVE WIDTH: 18 IN.
* BELT: BLACK RMV 150 COS
* CLEATS: HD 2-IN RECYCLER CLEATS @ 12 IN. CENTERS
* SIDE SKIRTS: 6 IN. HIGH TOB
* BELT SIDE GUIDES: YES
* BELT RETURNS: BOTTOM COVERS - SEALED
* PAINT COLOR: EVI SAFETY BLUE (LEGS ONLY)
* BELT SPEED: 120 FPM, FIXED SPEED
* DRIVE MOUNT/SIDE: SHAFT MOUNT, LEFT HAND SIDE
* DRIVE: 2 HP, 480V/3PH 60 HTRZ
* LIVE LOAD CAPACITY: 261 LBS. @ FIXED SPEED
* INFEED HEIGHT: 4 IN. (BOF)
* DISCHARGE HEIGHT: 85 IN. (BOF)
* CONVEYOR SUPPORT PROVIDED
* ADDITIONAL FEATURES:
  - UHMW BED RAILS
  - BELT PRODUCT GUIDES
  - GRINDER STYLE INFEED HOPPER W/ COVER (NO FLAIR)
  - HINGED DISCHARGE HOOD (SIM TO 76187)
  - STAINLESS STEEL ROLLER AND PULLEY PACKAGE
  - STAINLESS STEEL FRAME PACKAGE
  - WASH DOWN DRIVE
  - TAKE UP ADJ. FACING REAR OF CONVEYOR

**MAX LIVE LOAD = 254 POUNDS**

***STAINLESS STEEL MILL FINISH FRAME PACKAGE
***STAINLESS STEEL ROLLER/PULLEY PACKAGE
***WASH DOWN DRIVE PACKAGE

***************STANDARD LEG PACKAGE***************
AUTOCLAVE CART TIPPER
STRUCTURAL
Tipper Legs: 4” x 6” x 1/4” structural tubing
Tipper Arms: 2 reinforced 3/4” plates
Anchoring Plates: 3/4” plate
Pivot Shaft: 3” cold rolled rod

PERFORMANCE
Cycle Time: 35 sec.
Motor HP: 10 HP
Hydraulic Pump: 10 GPM
Hydraulic Cylinders: Two (2) 4.5” Bore w/ 2.5” Rods
Cylinder Stroke: 25” (varies per application)
Cylinder Cushions: Furnished, at both rod & piston ends
Pressure: 1350 PSI
Load Weight Capacity: 4500 lbs.
Controls: Manual-Valve Stem
WASTEWATER CONTAINER
DOUBLE WALL TANK SYSTEMS

THE ENGINEERED DIFFERENCE IN TANKS
DOUBLE WALL TANK SYSTEMS

CAPTOR CONTAINMENT SYSTEM
protects bulk storage profits without jeopardizing safety or the environment

Flanged Outlets and other fitting designs can be securely fastened and sealed to many of the large flat areas located on the top section of the tank (optional).

Vent Assemblies are available in a variety of sizes to relieve vacuum and pressure.

Fill and/or Draw Pipe Assemblies can be installed to facilitate different material loading or un-loading requirements (optional).

U.F.O. (Unified Fitting Outlet) is uniquely designed to mechanically seal fitting outlet through both the inner and outer tank walls. Material unloading is easier and more cost effective than pumping contents from the top of the tank (optional).

Bolted and Threaded Manways are available in sizes up to 24”. Standard size is an 18” threaded manway.

OSHA Compliant Ladders are available with and without cages in fiberglass and steel construction.

Molded in Tie-Down Lugs interface with optional cable restraint system to meet seismic and 150 mph wind load requirements.


Double Wall Tank Construction encloses and interlocks outer and inner tank to prevent rain, snow, and debris from entering outer containment tank.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gallons</th>
<th>Diameter</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>50400/50300</td>
<td>550</td>
<td>76”</td>
<td>65”</td>
</tr>
<tr>
<td>54700/54500</td>
<td>1,100</td>
<td>76”</td>
<td>104”</td>
</tr>
<tr>
<td>54900/54600</td>
<td>1,550</td>
<td>76”</td>
<td>136”</td>
</tr>
<tr>
<td>55700/55000</td>
<td>2,000</td>
<td>102”</td>
<td>103”</td>
</tr>
<tr>
<td>55800/55100</td>
<td>2,500</td>
<td>102”</td>
<td>122”</td>
</tr>
<tr>
<td>55900/55200</td>
<td>3,000</td>
<td>102”</td>
<td>142”</td>
</tr>
<tr>
<td>56000/55300</td>
<td>3,500</td>
<td>102”</td>
<td>158”</td>
</tr>
<tr>
<td>56100/55400</td>
<td>4,000</td>
<td>102”</td>
<td>178”</td>
</tr>
<tr>
<td>56200/55500</td>
<td>4,500</td>
<td>102”</td>
<td>197”</td>
</tr>
<tr>
<td>56300/55600</td>
<td>5,000</td>
<td>102”</td>
<td>216”</td>
</tr>
<tr>
<td>56600/56400</td>
<td>5,500</td>
<td>120”</td>
<td>172”</td>
</tr>
<tr>
<td>56700/56500</td>
<td>6,500</td>
<td>120”</td>
<td>199”</td>
</tr>
<tr>
<td>10064/10065</td>
<td>8,700</td>
<td>142”</td>
<td>197”</td>
</tr>
<tr>
<td>10066/10067</td>
<td>10,000</td>
<td>142”</td>
<td>226”</td>
</tr>
<tr>
<td>10311/10312</td>
<td>12,500</td>
<td>142”</td>
<td>274”</td>
</tr>
</tbody>
</table>

Tank Material Options:
High Density linear polyethylene (HDLPE) or cross-linked polyethylene (XLPE).

All Snyder specific gravity ratings meet or exceed ASTM D-1998. Consult your Snyder representatives on material construction recommendations for your company’s particular application.

ACCESSORIES

Leak Detection Sensor  Level Indicator  Temperature Maintenance  Multiple Manway Options  Transition Fitting  Seismic Restraints & Ladders
DOUBLE WALL TANK SYSTEMS

DUAL CONTAINMENT TANK SYSTEMS
ideal for mini-bulk chemical delivery programs

Top Draw-Tube Assembly enables material contents to be safely dispensed from the top of the tank (optional).

Optional Vent provides pressure and vacuum relief for interior tank.

Available in XLPE and HDLPE resin packages.

Transition Fitting allows sidewall safe installation and long-term sealing power through both walls of tank (optional).

Forklift Channels are available on 275, 360 and 500 gallon sizes.

Flat Surface Areas provides ample space on top for a variety of fitting sizes and styles.

Two Tanks within one design provide double-wall protection.

Narrow Diameter provides location versatility in that it can fit through most any doorway on sizes up to 250 gallons.


Molded in Tie-Down Lugs interface with optional cable restraint system to meet seismic and 150 mph wind load requirements.

All Other Snyder Industrial Product Fittings and accessories are available wherever applicable.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gallons</th>
<th>Diameter</th>
<th>Height</th>
<th>Lid</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000112N--</td>
<td>35</td>
<td>22”</td>
<td>36”</td>
<td>6”</td>
</tr>
<tr>
<td>5680002N--</td>
<td>60</td>
<td>26”</td>
<td>41”</td>
<td>14”</td>
</tr>
<tr>
<td>5700102N--</td>
<td>120</td>
<td>34”</td>
<td>51”</td>
<td>14”</td>
</tr>
<tr>
<td>5710102N--</td>
<td>150</td>
<td>34”</td>
<td>62”</td>
<td>14”</td>
</tr>
<tr>
<td>5990502N--</td>
<td>250</td>
<td>34”</td>
<td>83”</td>
<td>14”</td>
</tr>
<tr>
<td>5740102N--</td>
<td>275</td>
<td>34”</td>
<td>63”</td>
<td>18”</td>
</tr>
<tr>
<td>5760102N--</td>
<td>360</td>
<td>47”</td>
<td>63”</td>
<td>18”</td>
</tr>
<tr>
<td>5780102N--</td>
<td>500</td>
<td>53”</td>
<td>81”</td>
<td>18”</td>
</tr>
<tr>
<td>5990102N--</td>
<td>1000</td>
<td>81”</td>
<td>69”</td>
<td>18”</td>
</tr>
<tr>
<td>5990302N--</td>
<td>1500</td>
<td>93”</td>
<td>77”</td>
<td>18”</td>
</tr>
</tbody>
</table>

Tank Material Options:
High Density linear polyethylene (HDLPE) or cross-linked polyethylene (XLPE).

ACCESSORIES

Leak Detection Sensor
Forklift & Pallet Jack
Accessible Design
Level Gauge
Sidewall Transition Fitting
Temperature Maintenance
Other Fittings & Accessories
Consider the Benefits...

- Tank-in-a-tank design provides TOTAL containment protection in one space-saving unit.
- The system consists of a primary tank with a secondary outer containment tank with a capacity of 115%-120% of the inner tank’s capacity, exceeding EPA standards.
- Double-wall construction is completely enclosed so that external matter such as rainwater, snow and debris is prevented from collecting in the outer containment tank making it ideal for outdoor chemical storage.
- Shipped fully-assembled on either a standard or wide-load flatbed trailer which reduces field assembly costs.
- Available in sizes ranging from 35 to 12,500 gallons.
- Available in High Density Linear Polyethylene (HDLPE) or Cross Link Polyethylene (XLPE) construction. Having a choice provides ultimate chemical compatibility and performance.
- Tanks designed with wall thickness equal to or greater than ASTM D-1998 standards.

Your Snyder Double Wall Tank can be customized with these options...

- Seismic restraint system.
- 150 MPH wind load restraint system.
- Ultrasonic level indicators.
- Leak detection sensors.
- Heat tracing and insulation.
- OSHA compliant ladders (550-12,500 gallon sizes).
- Variety of manway sizes and styles.
- Bottom sidewall outlets.
- Top inlet connections and vents.

Whether you are a manufacturer or distributor, Snyder Industries can help you improve the function, economics and performance of your company’s bulk handling systems.
*ALL EXTERNAL PIPING MUST BE INDEPENDENTLY SUPPORTED.

*ONLY BASE FITTINGS TO BE LEFT INSTALLED AT TIME OF SHIPMENT PER SII PROCEDURE.

*TANKS ORDERED WITH FOAM INSULATION WILL HAVE AN INCREASED DIAMETER OF 4-6 INCHES.

*Consult Snyder's Guidelines for Use and Installation prior to delivery.


ALL DIMENSIONS ARE IN INCHES. NOMINAL & SUBJECT TO CHANGE WITHOUT NOTICE.

ALL DIMENSIONS ON ROTATIONAL MOLDED PARTS ARE SUBJECT TO ± 3% TOLERANCE.
**NOTES**

1. GENERAL CONSTRUCTION DETAILS – NOT INTENDED FOR CONSTRUCTION PURPOSES – FOR PERMITTING PURPOSES ONLY.
2. COVER GRATE WILL BE PLACED ON 1" MINIMUM LEDGE.

**FOR PERMITTING PURPOSES ONLY**

TRENCH FLOOD DRAIN GENERAL CONSTRUCTION DETAILS
DIVERSIFIED WASTE MANAGEMENT, INC.
AMARILLO, TEXAS
NOTES:
1. GENERAL CONSTRUCTION DETAILS – NOT INTENDED FOR CONSTRUCTION PURPOSES – FOR PERMITTING PURPOSES ONLY
2. RAMP SLOPE IS APPROXIMATED.

FOR PERMITTING PURPOSES ONLY

APPROXIMATE SLOPE:
4:25 = 16%

ELEVATED UNLOADING DOCK

RAMP TO DOCK
SLOPE DIRECTION

UNLOADING DOCK GENERAL CONSTRUCTION DETAILS
DIVERSIFIED WASTE MANAGEMENT, INC.
AMARILLO, TEXAS
ATTACHMENT 20

SECTION 5 – OTHER SITE OPERATING PLAN, FINANCIAL ASSURANCE, AND CLOSURE REQUIREMENTS
ATTACHMENT 20A

FIRE PROTECTION PLAN
1.0 Introduction

This Fire Protection Plan describes methods for fire protection, procedures for using the fire protection equipment and employee training and safety procedures pursuant to §326.75(f) of Title 30, Part 1 of the Texas Administrative Code. The owner/operator has coordinated with the local Fire Department to ensure that fire detection procedures and firefighting equipment complies with the local fire codes. A copy of this Plan will be made available to the Fire Department and other emergency response agencies. The owner/operator and the Fire Department will meet on an as-needed basis in order to keep the Fire Department updated on Facility procedures and operations, and to ensure that the Facility is operated in accordance with local fire codes.

2.0 Fire Prevention

- Burning will not be permitted at this Facility.
- Smoking will not be permitted in the waste transfer, storage, or processing areas at this Facility.
- Incoming loads and waste storage units will be routinely inspected for evidence of smoke, ashes, smoldering, (i.e., “hot loads”).

3.0 Fire Protection Equipment

The following equipment is available on-site for fire-fighting activities:

- Properly-sized fire extinguishers
- Hose/water source
- Onsite fire water container

The Facility will have properly-sized and spaced fire extinguishers located throughout the building. These fire extinguishers are typically 5-pound ABC type extinguishers and will be inspected and tagged per vendor specifications. Fire extinguishers will be fully charged and ready for use at all times. Each extinguisher will be installed and maintained properly. Deficient extinguishers will be recharged or replaced if identified as inoperable. An adequate supply of water under pressure will be provided to the Fire Department, as needed. A standard water hose will be available at the Facility for fire extinguishing. The Fire Department will be the first responder of fire protection.
4.0 Employee Training and Safety Procedures

All employees will be trained in the content and use of this Fire Protection Plan, and this Plan will be part of new employee orientation. In addition, a fire drill will be conducted at least once annually. The fire drill will include instructions outlining firefighting rules, the proper procedures for fire extinguisher use and capabilities, evacuation procedures, and proper procedures for notification of the local fire department and key personnel.

5.0 General Procedures for Fire-fighting

A fire could potentially occur at the Facility via a number of mechanisms. Potential scenarios for fires include ignition of equipment while operating, vehicle fires, etc. In the event of a fire, the following procedures will be implemented:

1. The person who identifies the fire will call 911 to notify the Fire Department. Provide the following information:
   - Facility Name: Diversified Waste Management
   - Address: 13511 Indian Hill Rd.
   - Nearest Cross Street: Indian Hill Rd./Dowell Rd.

2. Alert Facility personnel and evacuate, if necessary

3. Call the Emergency Coordinator (EC) or his designee if not already present. Once the EC arrives, the EC will take control of emergency operations; until then, the employee who has identified the fire and initiated emergency response procedures will continue to control the situation.
   - EC contact information:
     - Name: Shane Ward
     - Phone: 806-371-0120

4. Cease all operations, turn off/unplug equipment as possible, and evacuate the building using the closest exit and meet at designated assembly point. Conduct a head count at the assembly point location to ensure all on-site employees, visitors, vendors, etc. can be accounted for.

5. Assess the extent of the fire and possibilities for extinguishing the fire with on-site equipment. Never attempt to fight a fire alone.

6. If safe, attempt to contain or extinguish the fire with on-site fire protection equipment until the Fire Department arrives.

7. Isolate burning materials, if possible.

8. Collection vehicles carrying waste which has ignited will be directed immediately to an isolated area away from the building. If possible, the vehicle will be unloaded in order to identify the fire source and extinguish using water hoses or fire extinguishers.

9. If a fire extinguisher is used, implement the "PASS" method:
   - Pull the pin,
   - Aim at the fire,
   - Squeeze the trigger,
   - Sweep from side to side to extinguish the fire.

   Never turn your back on a fire.

10. Facilitate Fire Department access to the Facility grounds and building.

11. Personnel not actively involved in fire control operations will be restricted from the area of the fire until it is extinguished, and the area is determined to be safe.

12. Document the incident and keep a copy in the Facility Operating Record.
ATTACHMENT 20B

HEALTH AND SAFETY PLAN
Diversified Waste Management, Inc.

Health & Safety Plan Overview

Diversified Waste Management Inc. (DWM) policy is that all employees be provided with a safe and healthful place of employment in accordance with 29 CFR 1910 OSHA standards.

Identification of hazardous conditions may be accomplished at the planning and design stage, as a result of workplace inspections or by employee reports. All recognized safety and health hazards shall be eliminated or controlled as quickly as possible, subject to priorities based upon the degree of risk posed by the hazards. The preferred method of hazard abatement shall be through application of engineering controls or substitution of less hazardous processes or materials. Reliance on personal protective equipment (PPE) is acceptable only when other methods are proven to be technically and/or economically infeasible.

Safety rules are developed with input from supervision and employees and address behaviors and work practices that can lead to accidents and injuries. Each employee should become familiar with, and follow, general and departmental safety rules.

Supervisors must enforce safe work practices through strict adherence to safety rules. Most accidents can be prevented if everyone uses assigned safety equipment and follows the established rules. To operate a safe and successful business, we must work as a team to:

THINK SAFE, WORK SAFE, AND BE SAFE

Why work safely?
Work safely for the most important people in your life -- your family. If you are injured at work, they are the people most directly affected. A work-related injury could cause you to be unable to play with your children or take part in recreational activities or hobbies.

What is working safely?
Wearing required PPE such as safety glasses, completing every task the correct way, not taking hazardous shortcuts, paying attention to the task at hand and asking your supervisor how to complete unfamiliar tasks
Your Safety Rights
You have several important rights concerning safety, which are protected by federal, state and local laws of which you should be aware. They are:

• The right to a safe work-place free from recognized hazards;
• The right to request information on safety and health hazards in the workplace, precautions that may be taken and procedures to be followed if an employee is injured or exposed to toxic substances;
• The right to know about the hazards associated with the chemicals you work with, and safety procedures you need to follow to protect yourself from those hazards;
• The right to question any instruction that requires you to disobey a safety rule, puts yourself or someone else in unnecessary danger of serious injury or requires you to perform a task for which you have not been trained to perform in a safe manner;
• The right to access your medical and exposure records; and
• The right of freedom from retaliation for demanding your safety rights.

Your Safety Responsibilities
You also have some important responsibilities concerning safety. These are:

• The responsibility of reporting all injuries and illnesses to your supervisor, no matter how small;
• The responsibility of always following the safety rules for every task you perform;
• The responsibility of reporting any hazards you see;
• The responsibility of helping your co-workers recognize unsafe actions or conditions they cause; and
• The responsibility of asking about the safety rules you are not sure about.

Employee Safety Rules
It is impractical to list or include all safety rules for all the possible tasks you may have to do, but the following overview has been prepared to help you avoid hazards that may cause injury while doing some of the more common tasks you may be asked to do. Study and follow
the rules provided in this booklet and ask your supervisor for additional guidance when tasked to do a task with which you are not familiar or that this document does not cover. Failure to follow safety rules and/or safe practices will result in disciplinary action, up to and including termination.

General Safety Rules

- Read and follow the safety notices and other information that is posted.
- Observe and follow all safety instructions, signs, and operation procedures.
- Help your fellow employee when they ask for assistance or when needed for their safety. Never participate in "horseplay". Horseplay that results in injury is often not covered by Workers’ Compensation.
- Clean up spills immediately.
- Report all unsafe conditions, hazards, or equipment immediately. Make sure other people are warned of the problem so that they may avoid it.
- Wear personal protective equipment as required to reduce injury potential. Use gloves, safety glasses, back support belts etc. as necessary.
- Never stand on chairs, furniture, or anything other than an approved ladder or step-stool.
- Never use intoxicating beverages or controlled drugs before or during work. Prescription medication should only be used at work with your Doctor’s approval and after notification to your supervisor in cases where impairment may result.

Access to Employee Exposure & Medical Records

Whenever an employee or designated representative requests access to a record, DWM will assure that access is provided in a reasonable time, place and manner. If DWM cannot reasonably provide access to the record within fifteen (15) working days, the company will within the fifteen (15) working days apprise the employee or designated representative requesting the record of the reason for the delay and the earliest date when the record can be made available. Employee exposure and medical records can be obtained by contacting the Human Resource Department.
Bloodborne Pathogens
Unless you have received proper bloodborne pathogen training and have at least been offered the Hepatitis B vaccination series, DO NOT touch any blood or other body fluid or material contaminated with these fluids. If you accidentally come in contact with another person’s blood or body fluid, immediately notify your supervisor so that you can be medically evaluated by a physician for possible exposure to bloodborne pathogens.

Injuries & Accidents
All injuries and accidents must be reported immediately to your supervisor. This includes first aid injuries and close calls / near misses.

First Aid injuries must be documented on the first aid log.

Accidents and injuries resulting in medical treatment must be documented on an accident investigation form.

Not reporting an injury or accident immediately will result in disciplinary action.

Failure to report work related injuries and illnesses in a timely manner may result in denial of benefits under the workers' compensation law.

Workers' Compensation Fraud
DWM is committed to every employee who incurs a legitimate work- related injury or illness. However, any suspected fraudulent claim will be turned over to the company's Workers' Compensation insurer and the State Attorney General's Office for investigation. Workers' Compensation Fraud is a very serious crime and will be prosecuted to the fullest extent of the law. Fraud results in high Workers’ Compensation insurance premiums and productivity interruption affecting the company's ability to remain competitive in the marketplace. This in tum affects all employee's job security and wages. All employees are encouraged to immediately report any suspected fraud to his/her supervisor. Complete confidentiality will be maintained.
Horse Play
Horse Play, scuffling, pranks, wrestling, throwing material at others etc. is not allowed under any circumstances. This type of behavior often results in injuries.

Disciplinary Action
Disregarding safety rules or established safety practices will result in immediate dismissal or at least being written up and suspended. Examples of violations:

- Not wearing required PPE
- Not immediately reporting an injury or damage
- Committing an unsafe act such as removing a guard
- Operating a piece of equipment you are not authorized to operate, such as forklift

Return to Work Policy
All injured employees that return to work with medically authorized restrictions will be accommodated in a modified duty position until they can return to full capacity. Every effort will be made to return employees on medical restrictions to their normal position with modifications to meet the required medical restrictions. When it is not possible to accommodate employees at their normal position an alternative task, within the scope of the restrictions, will be assigned.

Drug & Alcohol Testing
The DWM alcohol and drug-testing program is intended to eliminate the use of illegal drugs, alcohol, and other controlled substances in the work place. Designed solely for the benefit of our employees, this program will provide reasonable safety on the job and protection from offending individuals. Drugs and alcohol tests will be administered under the following conditions:

- To any employee when there is reasonable suspicion that he/she is under the influence of illegal drugs or alcohol
- To any employee who is involved in a near miss that could have, or a workplace accident that causes property damage or requires examination and/or treatment by a licensed physician or medical facility
- Upon application for employment and as a condition of employment
Refusing a Drug and/or Alcohol Test
An employee's refusal to submit to testing as stated above shall be grounds for immediate discharge.

Hazard Communication Standard
All chemicals must be labeled with at least the name of the chemical & manufacturer. Never remove, obscure or deface original hazard labels or markings unless you replace it with equivalent information.

Bulk chemicals and chemicals with a recognized or assigned hazard must be labeled with the Hazard Management Information System (HMIS) or National Fire protection Association (NFPA). In these systems, the higher the number rating (i.e., HMIS or NFPA), the more hazardous the chemical.

A list of hazardous materials used in the workplace is kept in the Safety Manager's office.

Always use required and recommended PPE when working with any chemical.

Specific Hazards
- The marking in the bottom white square (HMIS) or rectangle (NFPA)
- OXY -- Oxidizer (causes fire through release of oxygen)
- ACID -- Acid
- ALK -- Alkali (high pH)
- CORR -- Corrosive (both CORR & ALK material create burns on human skin)
- $\Psi$ -- Water reactive, use no water
- ... -- Radiation Hazard

Safety Data Sheet (SDS)
These are standardized forms that relay in-depth information on material and chemical health hazards, reactivity, flammability chemical properties, guidelines on usage and storage. The SDSs are located in the Safety Manager's office. Anytime you need an SDS, ask your supervisor and he or she will get it for you.
Required PPE

Your supervisor will inform you of the PPE required to perform your specific job safely. For example:

- Safety Glasses are required to be worn at all times.
- Face shield and gloves are required when working with corrosives.
- Proper eye, face and hand protection must always be worn when operating a welder or cutting torch.
- Face shield, safety glasses, gloves and hearing protection are required for all grinding activities.
- Gloves are required to be worn when handling materials that might result in injury to the hand(s).

If an injury is sustained due to failure to wear required PPE, any benefits and/or compensation under Workers' Compensation may be reduced to the minimum required by law, including forfeiture of benefits and/or compensation.

Care of PPE

Inspect all PPE prior to using each time. If any part of your PPE is damaged see your supervisor for a replacement. Store all PPE in a clean, dry and secure place. If your PPE is lost or stolen, you may be charged for a replacement.

Limitations of PPE

PPE cannot protect from all hazards in all situations. That is why OSHA requires it as a last resort, when other protective measures cannot be achieved. For example, dust, airborne dirt and sparks can travel underneath and around the lens of safety glasses, leather gloves can be cut through and respirators may fail or leak.

Eye Safety

Never rub your face or eyes with dirty hand or while wearing a glove. If you get something in your eye never rub it with your finger, this will only make it worse. If something is in your eye, blink several times then use an eye wash. Always wear the required eye protection.
Lock Out Tag Out (Control of Hazardous Energy)
All machines being serviced must be locked out. If you ever see a lock or a danger tag on a machine, it is locked out for repairs. Never try to start a locked-out machine or remove the lock or tag unless you are authorized to do so and have followed the written procedure for re-energization and return to service for that machine.

Only trained and authorized maintenance employees can lockout a machine.

Electrical Safety
Only trained maintenance employees are authorized to conduct trouble shooting or electrical repairs. Do not attempt any maintenance activities you are not trained or authorized to conduct. Never use a damaged extension cord or any other piece of damaged equipment, and never use electrical equipment in damp or wet areas.

Forklifts
Only licensed and certified operators are authorized to operate forklifts. Do not operate mobile equipment until you pass the required training and are certified. Never stand on raised forks or on a pallet on the forklift or place any body part under raised forks, pallet or other load.

Always keep a buffer distance of at least six (6) feet from all directions of possible travel and insure the lift operator knows you will walk in front of or behind the lift. Never stand in an area where a load could fall off forks and strike you or ride on a forklift as a passenger.

Machine Safety
Never try to operate equipment you are not familiar with or trained to operate, reach into a machine while it is operating or place hands in areas where there are moving parts or crush zones.

Machine Guarding
Never remove a guard from a machine, use any machines with a guard missing, reach around a guard or “rig” or bypass a guard. Report guard issues immediately to your supervisor.
**Housekeeping**

Do not leave lumber, scrap or garbage on the floor. Items not stored correctly will cause a trip hazard. Water or oil on the floor will create slip hazards for employees or fork lifts. Clean up or immediately notify your supervisor of these conditions.

**Lifting and Moving Material**

Always check the weight of an object prior to lifting it. If it seems heavy get help from another person or use an authorized forklift or crane. Plan the path of travel before the lift. Lift with your legs keeping your back straight, and never twist while carrying a load.

**Fire Procedures**

OSHA defines an incipient stage fire as a fire in the initial or beginning stage and that can be controlled or extinguished by portable fire extinguishers, class II standpipe or small hose systems without the need for protective clothing or breathing apparatus.

If you find a fire smaller then a small trash can (incipient stage), you can try and put it out if you are trained in the use of fire extinguishers. For any larger fire, sound the alarm, notify your supervisor, evacuate the building and assemble in your designated area outside. Report any missing coworkers to your supervisor.

**Fire Extinguishers**

Authorized and trained employees can use the fire extinguishers located throughout the site to fight incipient stage fires. To use a fire extinguisher, remember **PASS**.

- **Pull** the pin
- **Aim** at the base of the fire
- **Squeeze** the handle
- **Sweep** the base of the fire

Report any missing, damaged or depleted extinguishers to your supervisor.
Training Topics Covered in this Employee Safety Handbook

- GENERAL HEALTH & SAFETY POLICIES
- THE IMPORTANCE OF WORKING SAFELY & WHAT IT INVOLVES
- YOUR SAFETY RIGHTS
- EMPLOYEE RESPONSIBILITIES
- EMPLOYEE SAFETY RULES
- EMPLOYEE ACCESS TO EXPOSURE & MEDICAL RECORDS
- BLOODBORNE PATHOGENS - GENERAL AWARENESS
- REPORTING OF INJURIES AND ACCIDENTS
- SEEKING MEDICAL TREATMENT FOR WORK RELATED INJURIES
- WORKERS’ COMPENSATION FRAUD
- HORSE PLAY
- DISCIPLINARY ACTION
- RETURN TO WORK POLICY
- DRUG & ALCOHOL TESTING POLICY
- OSHA’S HAZARD COMMUNICATION STANDARD
- PERSONAL PROTECTIVE EQUIPMENT (PPE)
- JOB REQUIREMENTS
- CARE & LIMITATIONS OF PPE
- EYE SAFETY
- LOCKOUT / TAGOUT (CONTROL OF HAZARDOUS ENERGY)
- ELECTRICAL SAFETY
- FORKLIFT OPERATION
- MACHINE SAFETY & GUARDING
- LIFTING & MOVING MATERIAL HOUSE KEEPING
- FIRE PROCEDURES
- USE OF FIRE EXTINGUISHERS

I have read and understand all of the information covered in the Employee Safety Handbook.

Employee Signature: ____________________________  Clock No.: ____________________________

Witness Signature: ____________________________  Date: ____________________________
ATTACHMENT 20C

CLOSURE PLAN
CLOSURE PLAN

The facility's closure plan is prepared in accordance with applicable portions of 30 TAC §326.71(k) - (n) relating to Closure and Post Closure.

§326.71(k) Closure Requirements for Medical Waste Storage and Processing Units

Upon closure, the owner or operator will remove all waste, waste residue, and any recovered materials. All facility units will be dismantled and removed off-site or decontaminated.

The owner or operator will evacuate all untreated medical waste to a TCEQ authorized facility and disinfect all receiving, processing and post-processing areas. Final disposition of treated medical waste will be at an authorized facility.

Final closure of the facility will be completed within 180 days following the last acceptance of processed or unprocessed materials unless otherwise directed or approved in writing by the executive director.

326.71(l) Certification of Final Facility Closure

§326.71(l)(1)
No later than 90 days prior to the initiation of final facility closure, the owner or operator will, through a public notice in the newspaper(s) of largest circulation in the vicinity of the facility, provide public notice for final facility closure. This notice will provide the name, address, and physical location of the facility; the registration number; and the last date of intended receipt of waste. The owner or operator will also make available an adequate number of copies of the approved final closure plan for public access and review. The owner or operator will also provide written notification to the executive director of the intent to close the facility and place the notice of intent in the site operating record.

§326.71(l)(2)
Upon notification to the executive director of the intent to close the site, the owner or operator will post a minimum of one sign at the main entrance and all other frequently used points of access for the facility notifying all persons who may utilize the facility or site of the date of closing for the entire facility or site and the prohibition against further receipt of waste materials after the stated date. Further, suitable barriers will be installed at all gates or access points to adequately prevent the unauthorized dumping of solid waste at the closed facility or site.

§326.71(l)(3)
Within 10 days after completion of final closure activities of the facility, the owner or operator shall submit to the executive director by registered mail the following:

(A) A certification, signed by an independent licensed professional engineer, verifying final closure has been completed in accordance with the approved closure plan. The submittal to the executive director will include all applicable documentation necessary for the Commission's certification of final facility closure and
(B) Upon closure of the facility, the owner or operator will request a voluntary revocation of the registration.