



Texas Commission on Environmental Quality Waste Permits Division Correspondence Cover Sheet

Date: March 18, 2022

Facility Name: Paragon Southwest Medical Waste
Baytown Facility

Permit or Registration No.: 40326

Nature of Correspondence:

Initial/New

Response/Revision to TCEQ Tracking No.:
27155326 (from subject line of TCEQ letter
regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Notifications
<input type="checkbox"/> New Notice of Intent	<input type="checkbox"/> Alternative Daily Cover Report
<input type="checkbox"/> Notice of Intent Revision	<input type="checkbox"/> Closure Report
<input type="checkbox"/> New Permit (including Subchapter T)	<input type="checkbox"/> Compost Report
<input checked="" type="checkbox"/> New Registration (including Subchapter T)	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Groundwater Corrective Action
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Background Evaluation
<input type="checkbox"/> Notice Modification	<input type="checkbox"/> Landfill Gas Corrective Action
<input type="checkbox"/> Non-Notice Modification	<input type="checkbox"/> Landfill Gas Monitoring
<input type="checkbox"/> Transfer/Name Change Modification	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Boring Plan
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Other:
<input type="checkbox"/> Other:	

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Responses
<input type="checkbox"/> New	<input type="checkbox"/> Annual/Biennial Site Activity Report
<input type="checkbox"/> Renewal	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> Post-Closure Order	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Construction Certification/Report
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> CCR Registration	<input type="checkbox"/> Extension Request
<input type="checkbox"/> CCR Registration Major Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> CCR Registration Minor Amendment	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Class 3 Modification	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Class 2 Modification	<input type="checkbox"/> Soil Core Monitoring Report
<input type="checkbox"/> Class 1 ED Modification	<input type="checkbox"/> Treatability Study
<input type="checkbox"/> Class 1 Modification	<input type="checkbox"/> Trial Burn Plan/Result
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Unsaturated Zone Monitoring Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Waste Minimization Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Other:
<input type="checkbox"/> 335.6 Notification	
<input type="checkbox"/> Other:	

Comment #	Application Part	Comment	Response to Comment	See Enclosure A, Attachment
#1	Section 4.5	In Section 4.5 on page 25, I believe, "...to accommodate the operation hours of its customers operational hours" goes at the end of the first sentence rather than the second. The end of the second sentence was probably intended to be, "...to accommodate the volume of waste requiring treatment," similar to the next-to-last paragraph of Section 5.7 on page 33. You may have to delete some blank lines on page 25 to keep it from spilling over to page 26.	Application form Section 4.5 text has been revised to address the discrepancy noted in comment #1.	#1
#2	Attachment 21	Attachment 21, "Closure Plan." The Step 10 total costs in each estimate do not match the Step 10 lump sum costs in each estimate (pages 3 and 4	The unit cost of line-item Step 10 has been revised in Attachment 21 closure cost estimates.	#2
#3	Attachment 21	Attachment 21, "Closure Plan." Costs for dismantling and removing the treatment units per 30 TAC 326.71(k)(1) appear to be missing from the cost estimates (pages 3 and 4) and the description (page 5).	Per email dated March 18, 2022, no further action is required for comment #3.	#3
Additional Change			Per video conference on March 18, 2022, the cover page of the application and table of contents have been sealed to reflect the date of the above changes. The changes to Section 4.5 and Attachment 21 themselves have not been sealed.	#4

**Paragon Southwest Medical Waste
Baytown Facility
MSW Registration No. 40326**

**ENCLOSURE A
Attachments #1 - #4**

ATTACHMENT

#1

Access to the facility operations will be controlled by means of a perimeter fence. Fencing ~~will surround the registration boundary and~~ will consist of 6-foot chain link fence with privacy screen panels. There are two site entrances accessible off Cedar Blvd. ~~Both~~ The west site entrance, which provides access to the operations of the facility,s will be equipped with a lockable gate. The entrance gates will be closed and locked when the facility is not operating. Gate access is controlled by a combination keypad and remote control system entry system. The east site entrance is for passenger vehicle parking with no direct access to the facility operations.

Access to the facility building will also be monitored by a security camera system and, at the supervisor's discretion, an electronic security alarm system. Entry to the tipping floor is restricted to designated personnel, approved waste haulers, and properly identified persons whose entry is authorized by site management. All gates will remain locked and will only be unlocked temporarily when in use. Repairs and maintenance of the perimeter fence and gates are performed as necessary.

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):

All interior roads are designed and constructed of concrete to provide all weather access. Because all onsite travel will be on paved surfaces, tracking mud onto public roadways should be minimized. The facility personnel will be responsible for the immediate removal of mud tracked onto the public roadway when the facility is in operation if it should occur. All roads within the facility are paved, eliminating the formation of dust and the need for other dust control measures.

All on-site and other access roadways will be maintained on a regular basis. On-site roadways will be repaired as necessary to minimize depressions, ruts, and potholes. These roadways will be inspected monthly and following heavy rainfall events. A log will be maintained in the facility's site operating record documenting the inspections and any repairs, as necessary.

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:

The medical waste treatment facility will be open to the public and accept waste-hauling vehicles from approved waste generators 24 hours per day, from 7:00 AM to 7:00 PM, 7 days per week, 365 days per year to accommodate the operational hours of its customers. The facility will process waste 24 hours per day, 7 days per week, 365 days per year to accommodate the volume of waste requiring treatment.

The facility may operate less than 24 hours per day, 7 days per week if the wastes available for treatment are insufficient to sustain a 24 hour, 7 day per week operation.

List the alternative operating hours, if any, of up to five days in a calendar-year period:

Not applicable.

ATTACHMENT

#2

**Paragon Southwest Medical Waste
Baytown Facility
Closure Cost Estimate for Phase ~~1~~**

Item Description	Units	Unit Cost	Quantity	Total Cost
1.0 Engineering				
1.1 Determine Closure Requirements	HR	\$150	8	\$1,200
1.2 Prepare Plans and Specifications	HR	\$150	24	\$3,600
1.3 Bid Procurement	HR	\$150	8	\$1,200
1.4 Contract Award and Administration	HR	\$150	24	\$3,600
Subtotal				\$9,600
15% Contingency				\$1,440
Engineering Total				\$11,040
2.0 Facility Closure				
Step 1 - Newspaper Notice	LS	\$1,000	1	\$1,000
Step 2 – TCEQ Notification	LS	\$1,000	1	\$1,000
Step 3 – Sign at Site Entrance	LS	\$500	1	\$500
Step 4 – Waste Diversion	LS	\$500	1	\$500
Step 5 4 – Facility Closure Initiation	N/A	N/A	N/A	N/A
Step 5 – Exterior Clean Up	LS	\$560	1	\$560
Step 6 – Transportation of Waste to Authorized Facility	TON	\$120	271.5	\$32,583
Step 7 – Waste Disposal at Authorized Facility	TON	\$383.25	271.5	\$104,062
Step 6 – Exterior Clean Up	LS	\$560	1	\$560
Step 7 – Waste Treatment/Removal – Disinfection	LB	\$0.35	162,820	\$56,987
Step 7 – Waste Treatment/Removal – Thermal	LB	\$0.80	81,492	\$65,193
Step 7 – Waste Removal – MSW	CY	\$5.21	857	\$4,465
Step 8 – Removal of Residual Chemicals	LS	\$500	1	\$500
Step 9 – Removal of Recyclable Materials	LS	\$500	1	\$500
Step 10 – Ash Removal Decontamination of Facility and Waste Units	LS	\$6,000 20,000	1	\$6,000 20,000
Step 11 – Interior Clean Up	LS	\$19,500	1	\$19,500
Step 12 – CoronaLux System Closure	LS	\$2,000	1	\$2,000
Step 13 – RedBag 4000 System Closure	LS	\$2,000	1	\$2,000
Step 14 1 – Closure Certification	LS	\$6,000	1	\$6,000
Step 1 2 5 – Affidavit to the Public	LS	N/A	N/A	N/A
Subtotal				\$166,705
15% Contingency				\$25,006
Facility Closure Total				\$191,711

Paragon Southwest Medical Waste Baytown Facility

Baytown FacilityMSW Registration No. 40326

Chambers County, Texas

Submitted: December 2021

Facility Closure Plan

Revised: ~~December~~ March 2024

Total Closure Cost		\$202,751
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Note: The closure cost estimate of **\$202,751** is based on approximately 270~~200~~ tons of waste and recyclable materials stored on-site for Phase 1. During Phase 1 operations, the waste acceptance rate is 135 tons per day. A closure cost estimate ~~will is also be~~ provided below for Phase 2, which the medical waste facility operations will begin transitioning into upon reaching 90% of the Phase 1 operations maximum daily acceptance rate. once the facility reaches 200 tons of waste and recyclable materials with a maximum of 550 tons.

**Paragon Southwest Medical Waste
Baytown Facility
Closure Cost Estimate for Phase 2**

Item Description	Units	Unit Cost	Quantity	Total Cost
1.0 Engineering				
1.1 Determine Closure Requirements	HR	\$150	8	\$1,200
1.2 Prepare Plans and Specifications	HR	\$150	24	\$3,600
1.3 Bid Procurement	HR	\$150	8	\$1,200
1.4 Contract Award and Administration	HR	\$150	24	\$3,600
Subtotal				\$9,600
15% Contingency				\$1,440
Engineering Total				\$11,040
2.0 Facility Closure				
Step 1 - Newspaper Notice	LS	\$1,000	1	\$1,000
Step 2 – TCEQ Notification	LS	\$1,000	1	\$1,000
Step 3 – Sign at Site Entrance	LS	\$500	1	\$500
Step 4 – Waste Diversion	LS	\$500	1	\$500
Step 4 ⁵ – Facility Closure Initiation	N/A	N/A	N/A	N/A
Step 5 – Exterior Clean Up	LS	\$560	1	\$560
Step 6 – Transportation of Waste to Authorized Facility	TON	\$120	1,100	\$132,000
Step 7 – Waste Disposal at Authorized Facility	TON	\$383.25	1,100	\$421,575
Step 6 – Exterior Clean Up	LS	\$560	1	\$560
Step 7 – Waste Treatment/Removal – Chemical	LB	\$0.35	162,820	\$56,987
Step 7 – Waste Treatment/Removal – Thermal	LB	\$0.80	818,914	\$655,131
Step 7 – Waste Removal – MSW	CY	\$5.21	857	\$4,465
Step 8 – Removal of Residual Chemicals	LS	\$500	1	\$500
Step 9 – Removal of Recyclable Materials	LS	\$500	1	\$500
Step 10 – Ash Removal	LS	\$6,000	1	\$6,000
Step 10 ¹¹ – Interior Clean Up Decontamination of Facility and Waste Units	LS	\$19,500 ^{\$20,000}	1	\$19,500 ^{\$20,000}
Step 12 – CoronaLux System Closure	LS	\$2,000	1	\$2,000
Step 13 – RedBag 4000 System Closure	LS	\$2,000	1	\$2,000
Step 11 ¹⁴ – Closure Certification	LS	\$6,000	1	\$6,000
Step 12 ¹⁵ – Affidavit to the Public	LS	N/A	N/A	N/A
Subtotal				\$756,643 ^{\$583,635}
15% Contingency				\$113,497 ^{\$87,545}
Facility Closure Total				\$870,140 ^{\$671,180}

Paragon Southwest Medical Waste Baytown Facility

Baytown FacilityMSW Registration No. 40326

Chambers County, Texas

Submitted: December 2021

Facility Closure Plan

Revised: ~~December~~ March 2024

Total Closure Cost	<u>\$881,180,682,220</u>

Note: The closure cost estimate of **\$881,180,682,220** is based on a maximum of ~~en 550-1,100~~ tons of waste and recyclable materials stored on-site for Phase 2. ~~During Phase 2 operations, the maximum waste acceptance rate is 550 tons per day.~~ A closure cost estimate will be provided for Phase 2 once the facility reaches 200 tons of waste and recyclable materials with a maximum of 550 tons.

ATTACHMENT

#3

Not Applicable

ATTACHMENT

#4

Texas Commission on Environmental Quality
Application for a Medical Waste Registration
Paragon Southwest Medical Waste
Baytown Facility
Baytown, Chamber County, Texas

Registration ~~TBD~~No. 40326

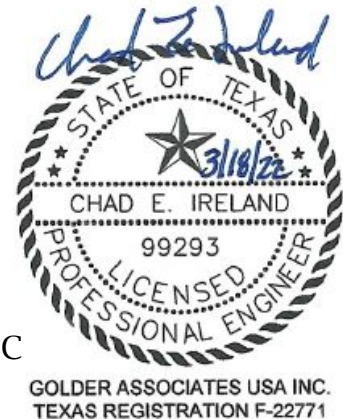
December 22, 2021

Revision Date: ~~N/A~~

March 18, 2022

Prepared for

Paragon Southwest Medical Waste, LLC
4200 Cedar Blvd,
Baytown, Texas 77523



Prepared By

Chad E. Ireland, PE, Senior Geological Engineer
Golder Associates USA Inc.

Texas Professional Engineering Firm Registration Number F-22771
14950 Heathrow Forest Parkway, Suite 280
Houston, Texas 77032

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GOLDER ASSOCIATES USA INC.
TEXAS REGISTRATION F-22771

**Paragon Southwest Medical Waste
Baytown Facility
MSW Registration No. 40326**

**ENCLOSURE B
Replacement Pages**

Texas Commission on Environmental Quality
Application for a Medical Waste Registration
Paragon Southwest Medical Waste
Baytown Facility
Baytown, Chamber County, Texas
Registration No. 40326

December 22, 2021

Revision Date:

March 18, 2022

Prepared for

Paragon Southwest Medical Waste, LLC
4200 Cedar Blvd,
Baytown, Texas 77523



Prepared By

Chad E. Ireland, PE, Senior Geological Engineer
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Texas Professional Engineering Firm Registration Number F-22771
14950 Heathrow Forest Parkway, Suite 280
Houston, Texas 77032

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1.6 Notice of Opportunity to Request Public Meeting 5

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4.4 Access Control [30 TAC §326.75(g)] 24

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Attachments 40



GOLDER ASSOCIATES USA INC.
TEXAS REGISTRATION F-22771

Access to the facility operations will be controlled by means of a perimeter fence. Fencing will consist of 6-foot chain link fence with privacy screen panels. There are two site entrances accessible off Cedar Blvd. The west site entrance, which provides access to the operations of the facility, will be equipped with a lockable gate. The entrance gate will be closed and locked when the facility is not operating. Gate access is controlled by a combination keypad and remote control system entry system. The east site entrance is for passenger vehicle parking with no direct access to the facility operations.

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All interior roads are designed and constructed of concrete to provide all weather access. Because all onsite travel will be on paved surfaces, tracking mud onto public roadways should be minimized. The facility personnel will be responsible for the immediate removal of mud tracked onto the public roadway when the facility is in operation if it should occur. All roads within the facility are paved, eliminating the formation of dust and the need for other dust control measures.

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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:

The medical waste treatment facility will be open to the public and accept waste-hauling vehicles from approved waste generators from 7:00 AM to 7:00 PM, 7 days per week, 365 days per year to accommodate the operational hours of its customers. The facility will process waste 24 hours per day, 7 days per week, 365 days per year to accommodate the volume of waste requiring treatment.

The facility may operate less than 24 hours per day, 7 days per week if the wastes available for treatment are insufficient to sustain a 24 hour, 7 day per week operation.

List the alternative operating hours, if any, of up to five days in a calendar-year period:

Not applicable.

**Paragon Southwest Medical Waste
 Baytown Facility
 Closure Cost Estimate for Phase 1**

Item Description	Units	Unit Cost	Quantity	Total Cost
1.0 Engineering				
1.1 Determine Closure Requirements	HR	\$150	8	\$1,200
1.2 Prepare Plans and Specifications	HR	\$150	24	\$3,600
1.3 Bid Procurement	HR	\$150	8	\$1,200
1.4 Contract Award and Administration	HR	\$150	24	\$3,600
Subtotal				\$9,600
15% Contingency				\$1,440
Engineering Total				\$11,040
2.0 Facility Closure				
Step 1 - Newspaper Notice	LS	\$1,000	1	\$1,000
Step 2 – TCEQ Notification	LS	\$1,000	1	\$1,000
Step 3 – Sign at Site Entrance	LS	\$500	1	\$500
Step 4 – Facility Closure Initiation	N/A	N/A	N/A	N/A
Step 5 – Exterior Clean Up	LS	\$560	1	\$560
Step 6 – Transportation of Waste to Authorized Facility	TON	\$120	271.5	\$32,583
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Step 8 – Removal of Residual Chemicals	LS	\$500	1	\$500
Step 9 – Removal of Recyclable Materials	LS	\$500	1	\$500
Step 10 – Decontamination of Facility and Waste Units	LS	\$20,000	1	\$20,000
Step 11 – Closure Certification	LS	\$6,000	1	\$6,000
Step 12 – Affidavit to the Public	LS	N/A	N/A	N/A
Subtotal				\$166,705
15% Contingency				\$25,006
Facility Closure Total				\$191,711
Total Closure Cost				\$202,751

Note: The closure cost estimate of **\$202,751** is based on approximately 270 tons of waste and recyclable materials stored on-site for Phase 1. During Phase 1 operations, the waste acceptance rate is 135 tons per day. A closure cost estimate is also provided below for Phase 2, which the medical waste facility operations will begin transitioning into upon reaching 90% of the Phase 1 operations maximum daily acceptance rate.

**Paragon Southwest Medical Waste
 Baytown Facility
 Closure Cost Estimate for Phase 2**

Item Description	Units	Unit Cost	Quantity	Total Cost
1.0 Engineering				
1.1 Determine Closure Requirements	HR	\$150	8	\$1,200
1.2 Prepare Plans and Specifications	HR	\$150	24	\$3,600
1.3 Bid Procurement	HR	\$150	8	\$1,200
1.4 Contract Award and Administration	HR	\$150	24	\$3,600
Subtotal				\$9,600
15% Contingency				\$1,440
Engineering Total				\$11,040
2.0 Facility Closure				
Step 1 - Newspaper Notice	LS	\$1,000	1	\$1,000
Step 2 – TCEQ Notification	LS	\$1,000	1	\$1,000
Step 3 – Sign at Site Entrance	LS	\$500	1	\$500
Step 4 – Facility Closure Initiation	N/A	N/A	N/A	N/A
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Step 10 – Decontamination of Facility and Waste Units	LS	\$20,000	1	\$20,000
Step 11 – Closure Certification	LS	\$6,000	1	\$6,000
Step 12 – Affidavit to the Public	LS	N/A	N/A	N/A
Subtotal				\$583,635
15% Contingency				\$87,545
Facility Closure Total				\$671,180
Total Closure Cost				\$682,220

Note: The closure cost estimate of **\$682,220** is based on a maximum of 1,100 tons of waste and recyclable materials stored on-site for Phase 2. During Phase 2 operations, the maximum waste acceptance rate is 550 tons per day.