

**POST OAK LANDFILL
TCEQ PERMIT NO. MSW-2378
GUADALUPE COUNTY, TEXAS**

PERMIT MODIFICATION

SYNTHETIC TARPS ALTERNATIVE DAILY COVER

Prepared for
Post Oak Clean Green, Inc.
August 2023



Prepared by
Weaver Consultants Group, LLC
TBPE Registration No. F-3727
6420 Southwest Blvd., Suite 206
Fort Worth, Texas 76109
817-735-9770

WCG Project No.0601-709-11-21



August 29, 2023
Project #: 0601-709-11-21

Ms. Kelly Keel
MC 124
Municipal Solid Waste Permits Section
Texas Commission on Environmental Quality
P. O. Box 13087
Austin, Texas 78711-3087

RE: Permit Modification – Synthetic Tarps Alternative Daily Cover
Post Oak Landfill – Permit No. MSW-2378
Guadalupe County, Texas

Dear Ms. Keel:

The purpose of this permit modification, submitted on behalf of Post Oak Clean Green, Inc., is to request the use of synthetic tarps as alternative daily cover (ADC) at the referenced facility on a permanent basis. As noted in the status reports submitted to the TCEQ during the trial period, synthetic tarps as ADC have proven to be effective in controlling vectors, fires, odors, and windblown waste.

Please process this modification per Title 30 Texas Administrative Code (TAC) §305.70(k)(1) which allows for the use of an alternative daily cover material on a permanent basis.

Additionally, the TCEQ-20650 form which includes the applicant's signature page (page 5) is included in Attachment 4 of the permit modification. In accordance with Title 30 TAC §330.59(h)(1), a \$150 application fee has been submitted to the TCEQ, as documented on page 1 of the TCEQ-20650 form.

One original and one copy are provided for your use and distribution. Consistent with Title 30 TAC §305.70(f), a copy of this submittal was sent to the TCEQ regional office. A copy of this submittal was placed in the site operating record for this facility.

To facilitate TCEQ's review, both a redline/strikeout copy (see Attachment 1) and a clean copy (see Attachment 2) have been included in the attached permit modification.

The following table has been developed to summarize the attached replacement pages for the permit modification.

Item	Explanation
Site Operating Plan (SOP) – Cover Page, Table of Contents, and Section 22.3	Updated revision date. Updated table of contents to include Appendix IVA. Updated Section 22.3 to include tarp ADC and language for future ADCs.
SOP – Appendix IVA	Created Appendix IVA for synthetic tarp ADC material characteristics, operational methods, and performance/inspection procedures.

A copy of the synthetic tarp ADC approval letters are included in Attachment 3. Please call if you have any questions or need additional information.

Sincerely,



Jonathan V. Queen, P.E.
Project Director

Attachments: Attachment 1 – SOP Replacement Pages (Redline/Strikeout Copy)
Attachment 2 – SOP Replacement Pages (Clean Copy)
Attachment 3 – Synthetic Tarp ADC Temporary Authorization Approval Letters
Attachment 4 – TCEQ-20650 Form
Attachment 5 – Adjacent Property Owner List and Map

cc: TCEQ Region 13
Gary Bartels, Post Oak Clean Green, Inc.
Dillon Hoppe, Post Oak Clean Green, Inc.

ATTACHMENT 1

**SOP REPLACEMENT PAGES
(REDLINE/STRIKEOUT COPY)**

**POST OAK MUNICIPAL SOLID WASTE LANDFILL
GUADALUPE COUNTY, TEXAS
TCEQ PERMIT NO. MSW-2378**

**SITE OPERATING PLAN
PART IV**

Prepared for

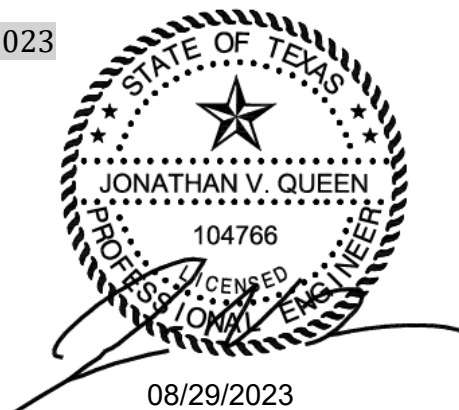
Post Oak Clean Green, Inc.

Permit Issued: October 23, 2018

Revised April 2020

Revised July 2021

Revised August 2023



Prepared by

08/29/2023

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WCG Project No. 0601-709-11-01



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Appendix IVA

Alternative Daily Cover Operating Plan



temporary storm water diversion berms will be used to minimize run-off from coming in contact with waste and becoming contaminated stormwater or leachate.

22.3 ALTERNATE COVER 330.165(D)

~~When Post Oak decides to use alternate cover at some point in the future,~~ Post Oak is currently approved to use synthetic tarps as alternative cover. If Post Oak decides to add other alternative covers, the facility will seek temporary authorization under 30 TAC 305.70(m), followed by an amendment or modification to the permit.

22.4 FINAL COVER 330.165(F)

The final cover will contain:

- an erosion layer comprised of vegetated soil and a drainage geocomposite configured to minimize erosion, and
- an infiltration layer comprised of a geomembrane and cohesive soil to act as a barrier to stormwater infiltration.

The specific components of the system are (from the top of waste up) (also see Part III, Appendix 3, Figure 3-12):

- 1.5 ft of cohesive soil compacted to achieve a hydraulic conductivity less than or equal to 1×10^{-5} cm/sec;
- a 40-mil linear low-density polyethylene (LLDPE) geomembrane;
- a geocomposite drainage layer composed of geotextile overlying geonet for the flatter top portion of the landfill and a geotextile on both sides of the geonet for the sideslopes;
- 2 ft of soil capable of sustaining native vegetation, and
- Graded drainage features and a vegetated surface.

The final cover slopes range from 5 percent on the top surface to 25 percent on the sideslopes. Drainage control berms, sideslope drainage terraces and rock-lined rundown channels convey and control storm water runoff from the landfill surface to drainage ditches at the perimeter to

APPENDIX IVA

ALTERNATIVE DAILY COVER OPERATING PLAN

**POST OAK LANDFILL
GUADALUPE COUNTY, TEXAS
TCEQ PERMIT NO. MSW-2378**

PERMIT MODIFICATION

PART IV – SITE OPERATING PLAN

**APPENDIX IVA
ALTERNATIVE DAILY COVER OPERATING PLAN**

Prepared for

Post Oak Clean Green, Inc.

August 2023



Prepared by

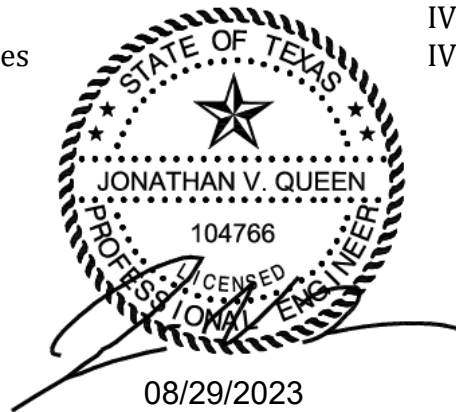
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6420 Southwest Blvd., Suite 206
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APPENDIX IVA.1
tarpARMOR Synthetic Tarp



1 INTRODUCTION

This Alternative Daily Cover Operating Plan (ADCOP) has been prepared for the Post Oak Landfill consistent with Title 30 Texas Administrative Code (TAC) §330.165(d). The purpose of this ADCOP is to address the following issues associated with the synthetic tarp ADC materials:

- Description and thickness of the proposed ADC materials
- Chemical composition of the materials
- Operation methods to be utilized at the site when using the ADCs
- Effect of the ADC on vectors, fires, odors, and windblown litter

As specified in the Site Operating Plan (SOP), ADC may be used to cover exposed waste that will be filled again in a 24-hour period. However, if the area in which ADC has been used is not filled over with waste within 24 hours (i.e., the site is closed for a period longer than 24 hours), the area will be covered with a minimum of six inches of daily cover soil.

2 MATERIAL CHARACTERISTICS

2.1 Description of ADC Materials

Synthetic Tarps

The synthetic tarps, produced by tarpARMOR, consist of a polypropylene fabric. The tarp is manufactured in various panel sizes and the minimum thickness of the tarp material is 30 mils. The material is a high strength, flame retardant, UV-Stabilizing woven geotextile. Typical specifications for the synthetic tarps proposed to be used as ADC are included in Appendix A.

2.2 Chemical Characteristics

Typical chemical characteristics of the synthetic tarps are included in Appendix A. The synthetic tarps are not reactive, ignitable, or corrosive under the expected conditions (i.e., high temperature, intense sunlight).

3 OPERATIONAL METHODS

3.1 Synthetic Tarps

Using standard landfill equipment and site personnel, the tarp(s) will be placed over the waste and secured with a combination of cables, chains, sand bags, soil, used tires, or similar means as needed. The tarps will be removed within 24 hours of their application and prior to waste placement. The tarp will be extended to ensure complete coverage of the working face and perimeter. Tarps will overlap each other at a minimum of one foot on the active face to ensure complete coverage, and the tarps along the overlapping areas will be secured with weights tied to chains and cables. Up slope tarps will lap over downslope tarps in a shingle-like type fashion to minimize stormwater infiltration into the underlying waste.

Tarps may be used in combination with soil or other approved ADC material to provide complete coverage of the working face.

4 SYNTHETIC TARP ADC MATERIAL PERFORMANCE AND INSPECTION PROCEDURES

4.1 ADC Performance

The synthetic tarp ADC material specified in this plan serves as a physical barrier over waste. The synthetic tarp ADC will control vectors, windblown waste, and odor, and will minimize fire hazards by creating a physical barrier between the atmosphere and waste. The tarps are not flammable, are sufficiently heavy, and will be properly anchored to remain positioned over waste when in use.

4.2 Verification and Inspection Procedures

At the end of each working day that tarps are utilized, landfill personnel will inspect the working face to confirm that the synthetic tarp ADC has been placed over the working face in accordance with this ADCOP. Landfill personnel will routinely assess the effectiveness of each ADC in controlling vectors, fires, odors, and windblown litter and waste. Daily application of ADC will be documented and maintained in the Site Operating Record.

APPENDIX IVA.1
tarpARMOR SYNTHETIC TARP



tarpaARMOR® ADC650FR TACTICAL TEXTILE® ADC Tarp Fabric Specification

ADC650FR is a high-strength, flame-retardant, UV-stabilized slit-film polypropylene woven geotextile. Gray in color. It is manufactured in a facility that has achieved ISO 9001 certification for its systematic approach to quality and ISO 14001 for its environmental management policy. It is highly resistant to chemicals and biological agents.

Property	Test Method	Typical Value (MARV)	Units
MECHANICAL			
Grab Tensile Strength (MD/CD)	ASTM D4632	650/650 (2.89/2.89)	Lbf (kN)
Grab Elongation (MD/CD)	ASTM D4632	24/19	%
Trapezoidal Tear	ASTM D4533	220/245 (978/1090)	Lbf (N)
Resistance to Static Puncture	ASTM D6241	1900 (8450)	Lbf (N)
Mullen Burst	ASTM D3786	975 (6722)	Psi (kPa)
HYDRAULIC			
Apparent Opening Size (AOS) max	ASTM D4751	35	US sieve
Permittivity (typical)	ASTM D4491	0.20	s ⁻¹
PHYSICAL			
Thickness under 2kPa	ASTM D5199	30 (0.8)	mils (mm)
ENDURANCE			
UV Resistance (1200 hrs)	EN 12224	≥ 80	%
Burning Characteristics	ASTM E84	Class A	
Reaction to Fire	DIN 4102-1	Class B2	
Ignitability	ISO 11925-2	EN 13501-1 Class E	

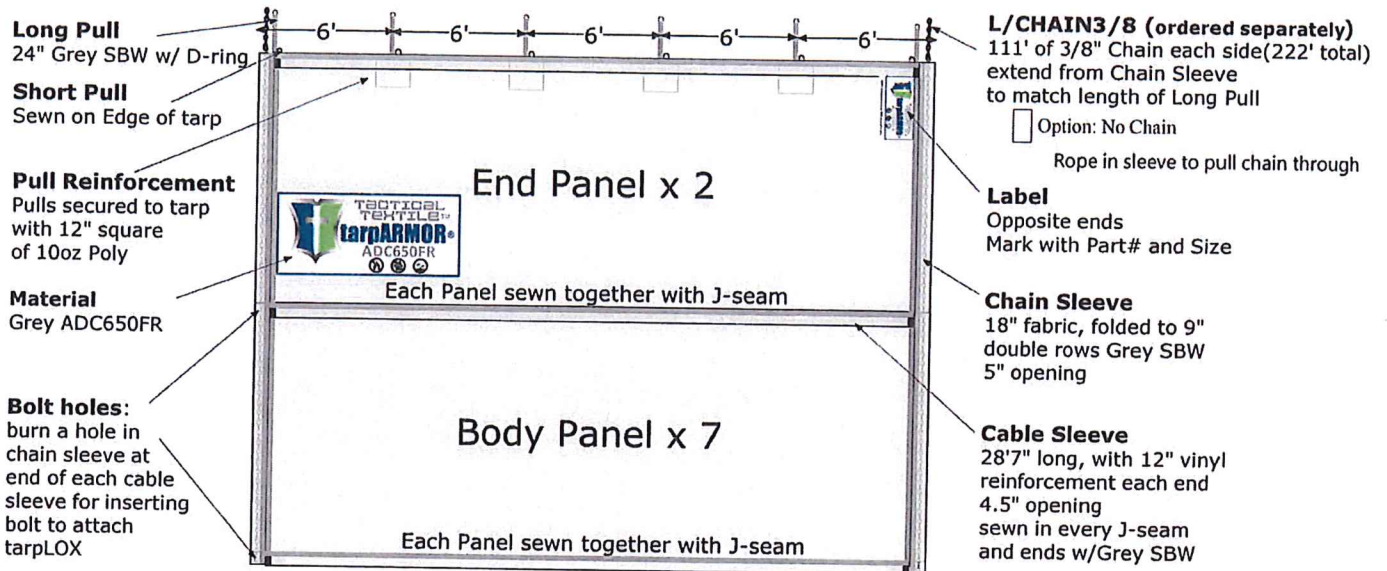


Order Date: _____

Sales Order: _____

Customer: _____

L/30X100MATM-TT

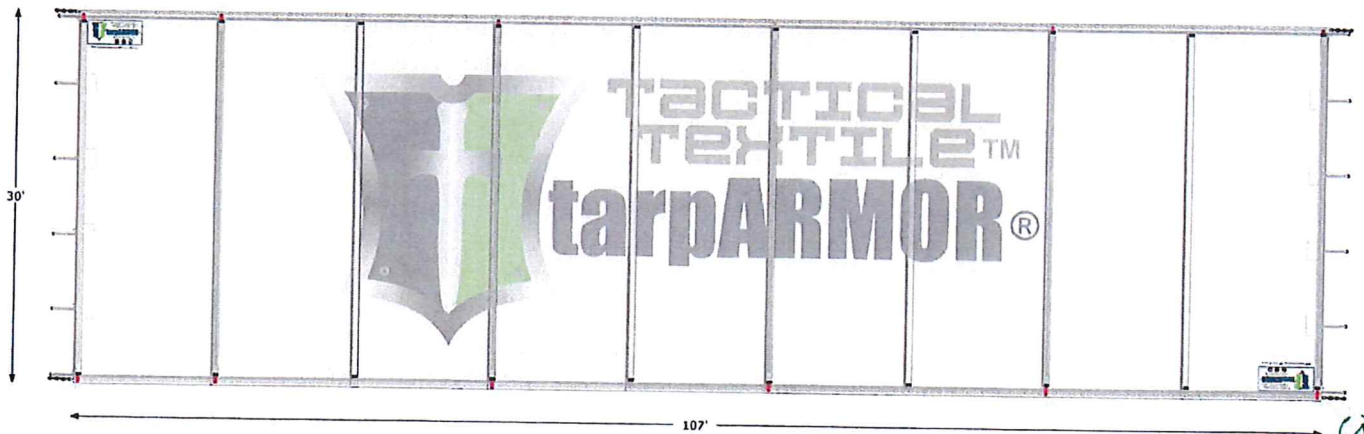


L/CABLELOX30 (ordered separately)
Cable cut at 29'3" tarpLOX attached to each end and tightened securely

Only install in sleeves if loading onto TDS. Otherwise ship separate.

Standard package:
6 per tarp
Install in every other Cable Sleeve with 1 ea in last two sleeves

Wind package option:
10 per tarp
Install in every Cable Sleeve



SDH 1/13/20

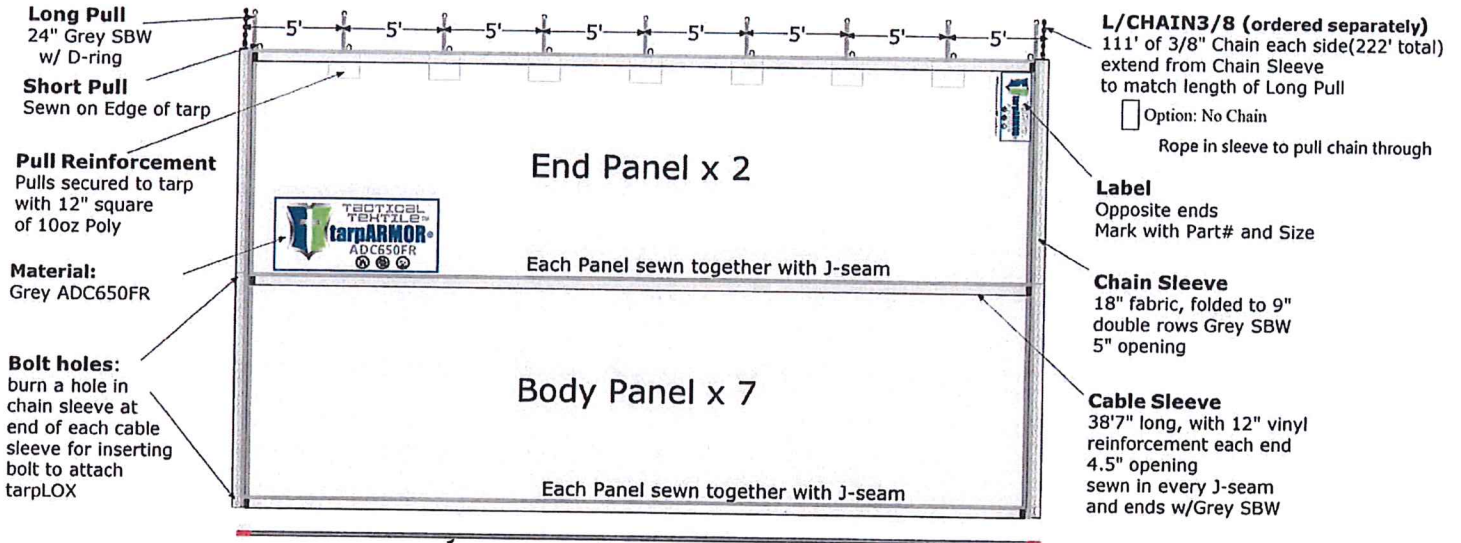


Order Date: _____

Sales Order: _____

Customer: _____

L/40X100ATM-TT

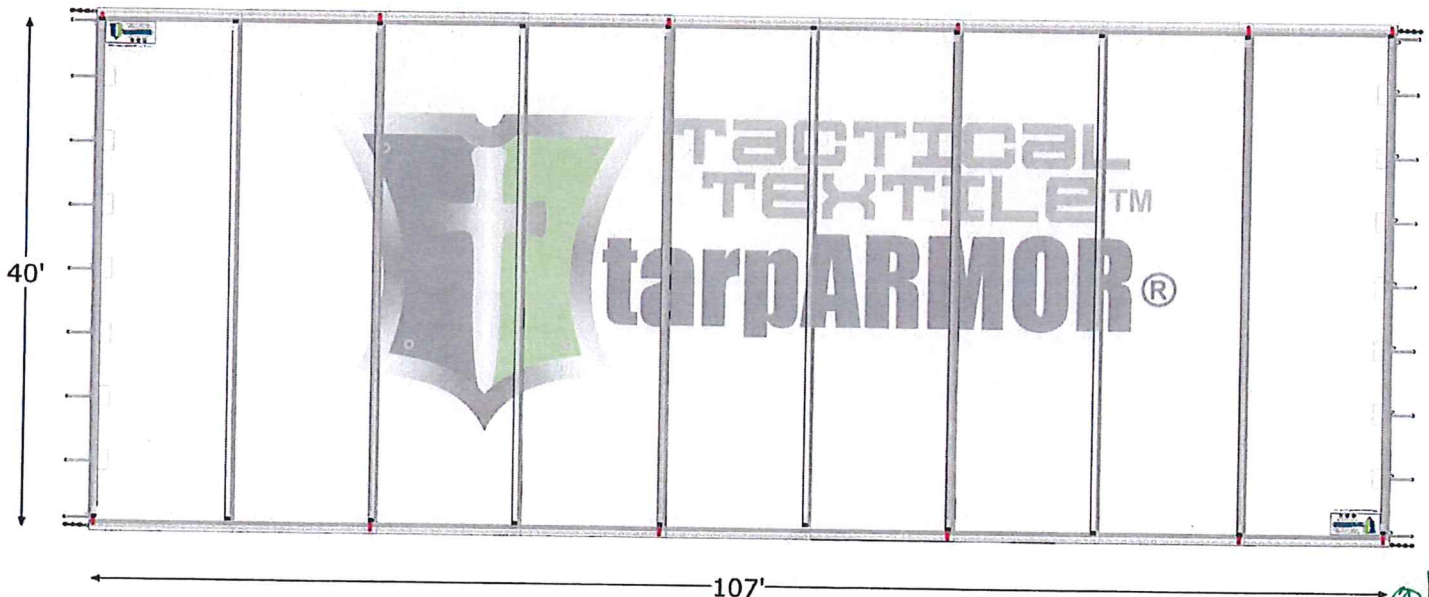


L/CABLELOX40 (ordered separately)
Cable cut at 39'3"
tarpLOX attached to each end and tightened securely

Only install in sleeves if loading onto spool. Otherwise ship separate.

Standard package:
6 per tarp
Install in every other Cable Sleeve with 1 ea in last two sleeves

Wind package option:
10 per tarp
Install in every Cable Sleeve



PH 11/3/20

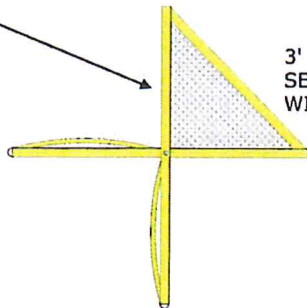
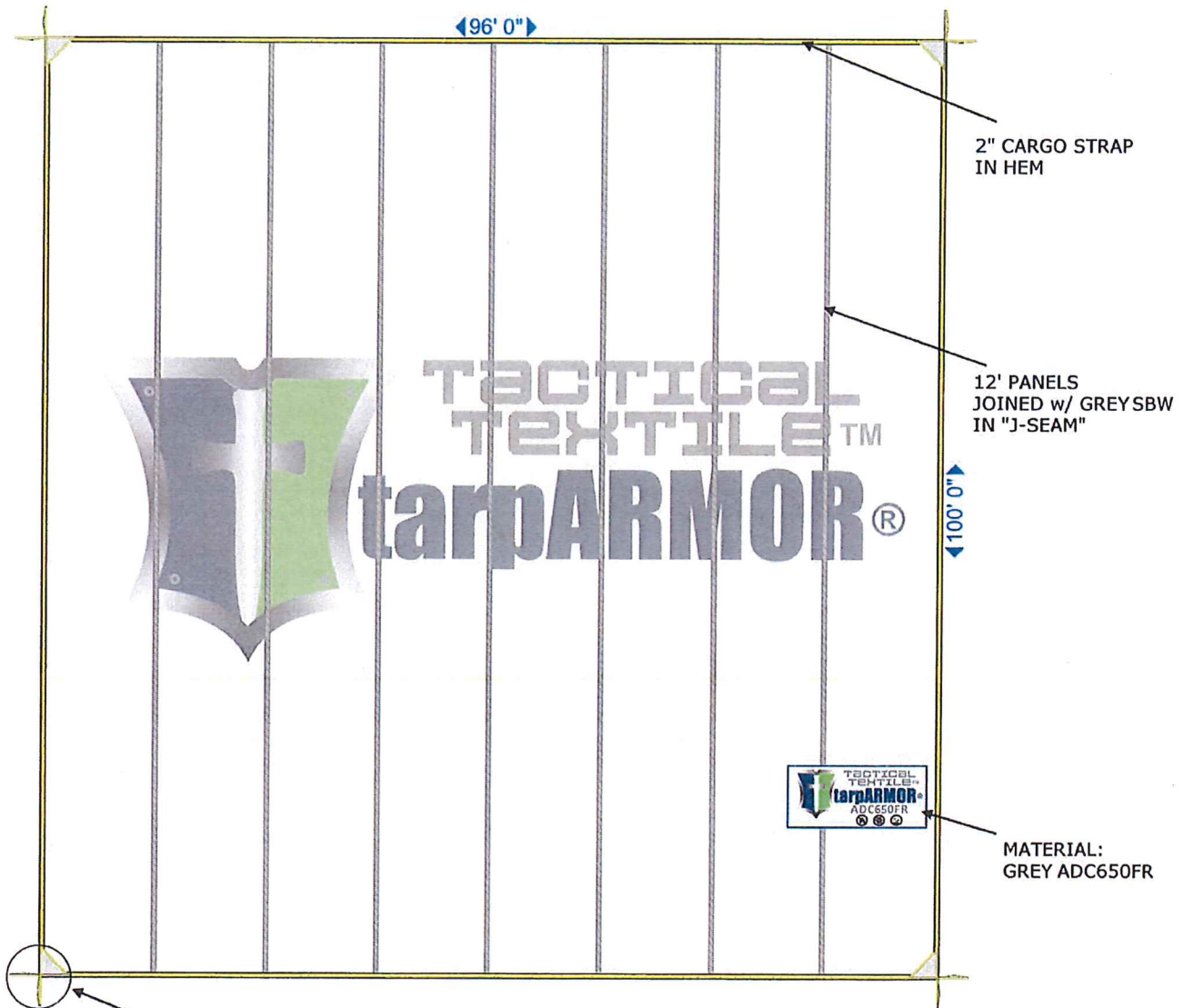


Order Date: _____

Sales Order: _____

Customer: _____

L/96X100CPRC-TT



3' CS CORNER LOOPS W/D-RING
SEWN 3' BACK ONTO COVER
WITH 3' ADC650FR REINFORCED CORNERS

SDH
1/13/20

ATTACHMENT 2
SOP REPLACEMENT PAGES
(CLEAN COPY)

**POST OAK MUNICIPAL SOLID WASTE LANDFILL
GUADALUPE COUNTY, TEXAS
TCEQ PERMIT NO. MSW-2378**

**SITE OPERATING PLAN
PART IV**

Prepared for

Post Oak Clean Green, Inc.

Permit Issued: October 23, 2018

Revised April 2020

Revised July 2021

Revised August 2023

Prepared by



08/29/2023

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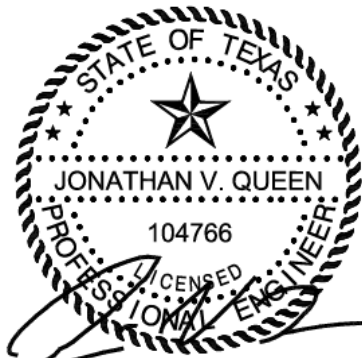


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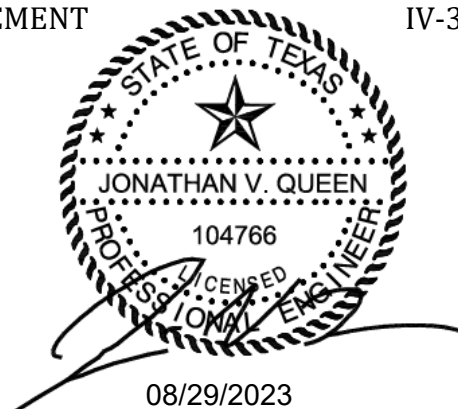
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Appendix IVA

Alternative Daily Cover Operating Plan



temporary storm water diversion berms will be used to minimize run-off from coming in contact with waste and becoming contaminated stormwater or leachate.

22.3 ALTERNATE COVER 330.165(D)

Post Oak is currently approved to use synthetic tarps as alternative cover. If Post Oak decides to add other alternative covers, the facility will seek temporary authorization under 30 TAC 305.70(m), followed by an amendment or modification to the permit.

22.4 FINAL COVER 330.165(F)

The final cover will contain:

- an erosion layer comprised of vegetated soil and a drainage geocomposite configured to minimize erosion, and
- an infiltration layer comprised of a geomembrane and cohesive soil to act as a barrier to stormwater infiltration.

The specific components of the system are (from the top of waste up) (also see Part III, Appendix 3, Figure 3-12):

- 1.5 ft of cohesive soil compacted to achieve a hydraulic conductivity less than or equal to 1×10^{-5} cm/sec;
- a 40-mil linear low-density polyethylene (LLDPE) geomembrane;
- a geocomposite drainage layer composed of geotextile overlying geonet for the flatter top portion of the landfill and a geotextile on both sides of the geonet for the sideslopes;
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APPENDIX IVA
ALTERNATIVE DAILY COVER OPERATING PLAN

**POST OAK LANDFILL
GUADALUPE COUNTY, TEXAS
TCEQ PERMIT NO. MSW-2378**

PERMIT MODIFICATION

PART IV – SITE OPERATING PLAN

**APPENDIX IVA
ALTERNATIVE DAILY COVER OPERATING PLAN**

Prepared for

Post Oak Clean Green, Inc.

August 2023



Prepared by

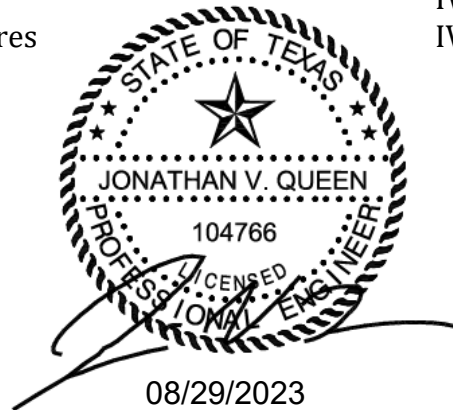
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APPENDIX IVA.1
tarpARMOR Synthetic Tarp



1 INTRODUCTION

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- Description and thickness of the proposed ADC materials
- Chemical composition of the materials
- Operation methods to be utilized at the site when using the ADCs
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As specified in the Site Operating Plan (SOP), ADC may be used to cover exposed waste that will be filled again in a 24-hour period. However, if the area in which ADC has been used is not filled over with waste within 24 hours (i.e., the site is closed for a period longer than 24 hours), the area will be covered with a minimum of six inches of daily cover soil.

2 MATERIAL CHARACTERISTICS

2.1 Description of ADC Materials

Synthetic Tarps

The synthetic tarps, produced by tarpARMOR, consist of a polypropylene fabric. The tarp is manufactured in various panel sizes and the minimum thickness of the tarp material is 30 mils. The material is a high strength, flame retardant, UV-Stabilizing woven geotextile. Typical specifications for the synthetic tarps proposed to be used as ADC are included in Appendix A.

2.2 Chemical Characteristics

Typical chemical characteristics of the synthetic tarps are included in Appendix A. The synthetic tarps are not reactive, ignitable, or corrosive under the expected conditions (i.e., high temperature, intense sunlight).

3 OPERATIONAL METHODS

3.1 Synthetic Tarps

Using standard landfill equipment and site personnel, the tarp(s) will be placed over the waste and secured with a combination of cables, chains, sand bags, soil, used tires, or similar means as needed. The tarps will be removed within 24 hours of their application and prior to waste placement. The tarp will be extended to ensure complete coverage of the working face and perimeter. Tarps will overlap each other at a minimum of one foot on the active face to ensure complete coverage, and the tarps along the overlapping areas will be secured with weights tied to chains and cables. Up slope tarps will lap over downslope tarps in a shingle-like type fashion to minimize stormwater infiltration into the underlying waste.

Tarps may be used in combination with soil or other approved ADC material to provide complete coverage of the working face.

4 SYNTHETIC TARP ADC MATERIAL PERFORMANCE AND INSPECTION PROCEDURES

4.1 ADC Performance

The synthetic tarp ADC material specified in this plan serves as a physical barrier over waste. The synthetic tarp ADC will control vectors, windblown waste, and odor, and will minimize fire hazards by creating a physical barrier between the atmosphere and waste. The tarps are not flammable, are sufficiently heavy, and will be properly anchored to remain positioned over waste when in use.

4.2 Verification and Inspection Procedures

At the end of each working day that tarps are utilized, landfill personnel will inspect the working face to confirm that the synthetic tarp ADC has been placed over the working face in accordance with this ADCOP. Landfill personnel will routinely assess the effectiveness of each ADC in controlling vectors, fires, odors, and windblown litter and waste. Daily application of ADC will be documented and maintained in the Site Operating Record.

APPENDIX IVA.1
tarpARMOR SYNTHETIC TARP



tarP ARMOR[®] ADC650FR TACTICAL TEXTILE[®] ADC Tarp Fabric Specification

ADC650FR is a high-strength, flame-retardant, UV-stabilized slit-film polypropylene woven geotextile. Gray in color. It is manufactured in a facility that has achieved ISO 9001 certification for its systematic approach to quality and ISO 14001 for its environmental management policy. It is highly resistant to chemicals and biological agents.

Property	Test Method	Typical Value (MARV)	Units
MECHANICAL			
Grab Tensile Strength (MD/CD)	ASTM D4632	650/650 (2.89/2.89)	Lbf (kN)
Grab Elongation (MD/CD)	ASTM D4632	24/19	%
Trapezoidal Tear	ASTM D4533	220/245 (978/1090)	Lbf (N)
Resistance to Static Puncture	ASTM D6241	1900 (8450)	Lbf (N)
Mullen Burst	ASTM D3786	975 (6722)	Psi (kPa)
HYDRAULIC			
Apparent Opening Size (AOS) max	ASTM D4751	35	US sieve
Permittivity (typical)	ASTM D4491	0.20	s ⁻¹
PHYSICAL			
Thickness under 2kPa	ASTM D5199	30 (0.8)	mils (mm)
ENDURANCE			
UV Resistance (1200 hrs)	EN 12224	≥ 80	%
Burning Characteristics	ASTM E84	Class A	
Reaction to Fire	DIN 4102-1	Class B2	
Ignitability	ISO 11925-2	EN 13501-1 Class E	

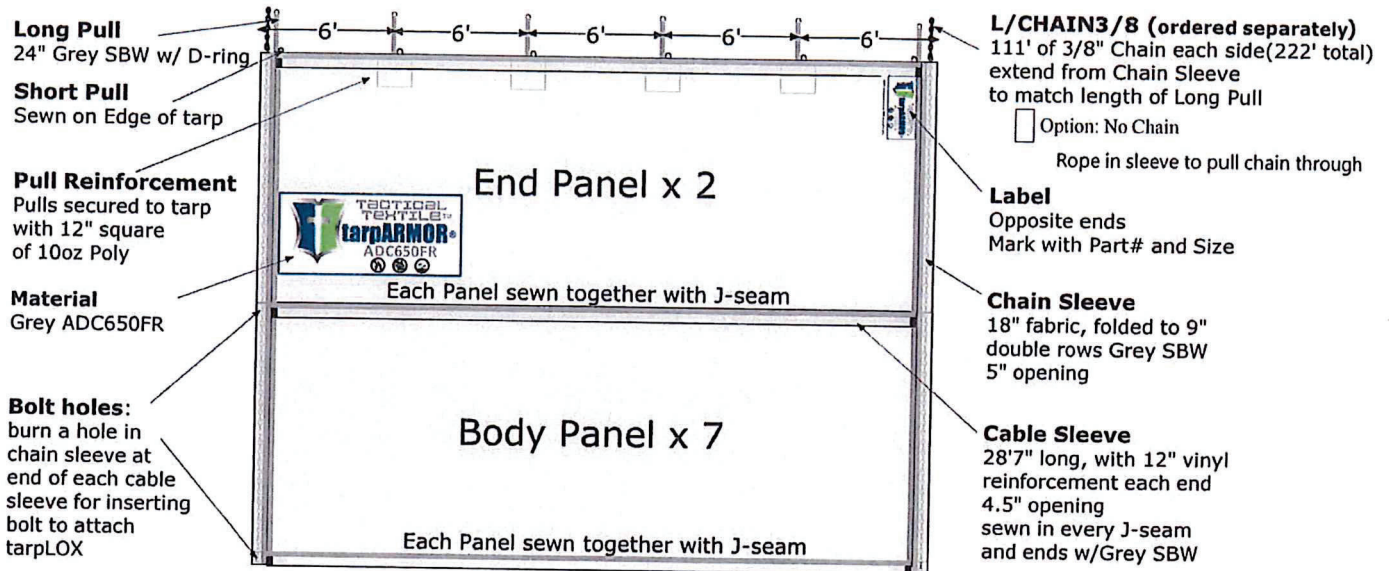


Order Date: _____

Sales Order: _____

Customer: _____

L/30X100MATM-TT

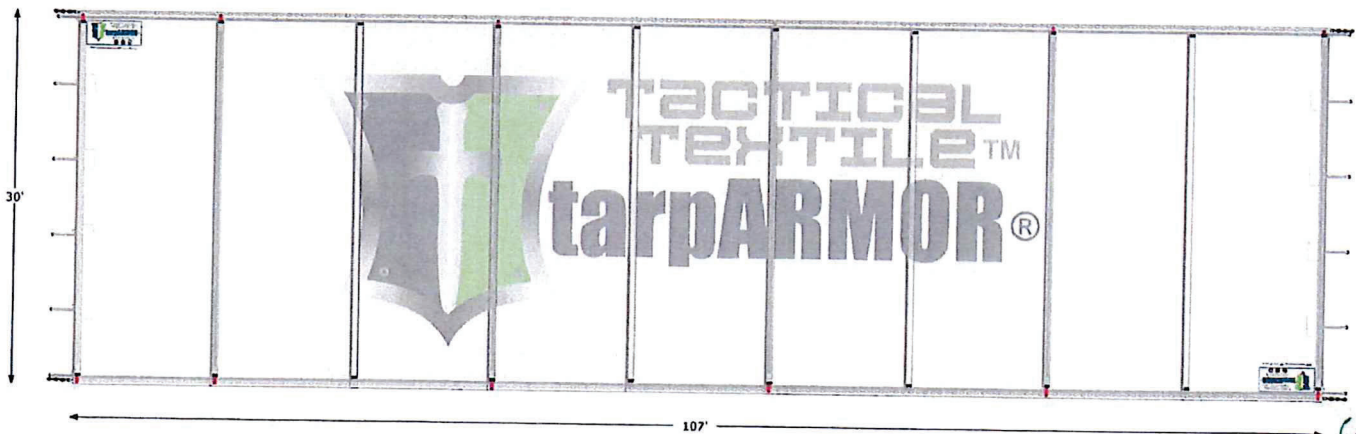


L/CABLELOX30 (ordered separately)
Cable cut at 29'3" tarpLOX attached to each end and tightened securely

Only install in sleeves if loading onto TDS. Otherwise ship separate.

Standard package:
6 per tarp
Install in every other Cable Sleeve with 1 ea in last two sleeves

Wind package option:
10 per tarp
Install in every Cable Sleeve



*SPH
1/13/20*

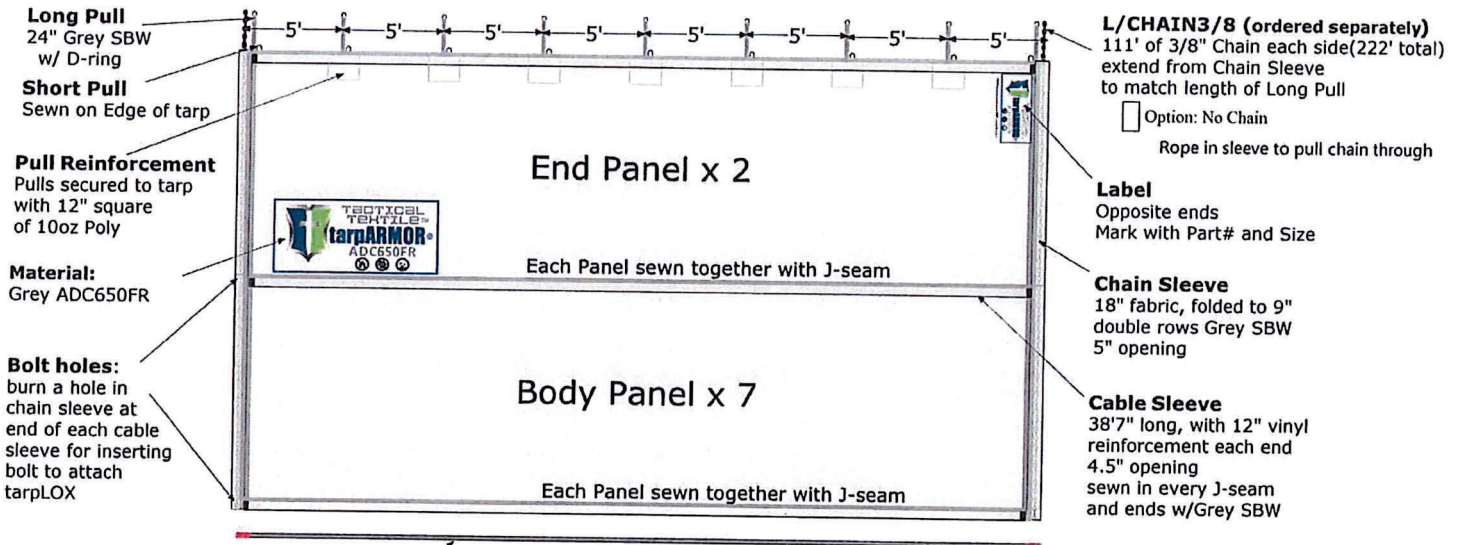


Order Date: _____

Sales Order: _____

Customer: _____

L/40X100ATM-TT

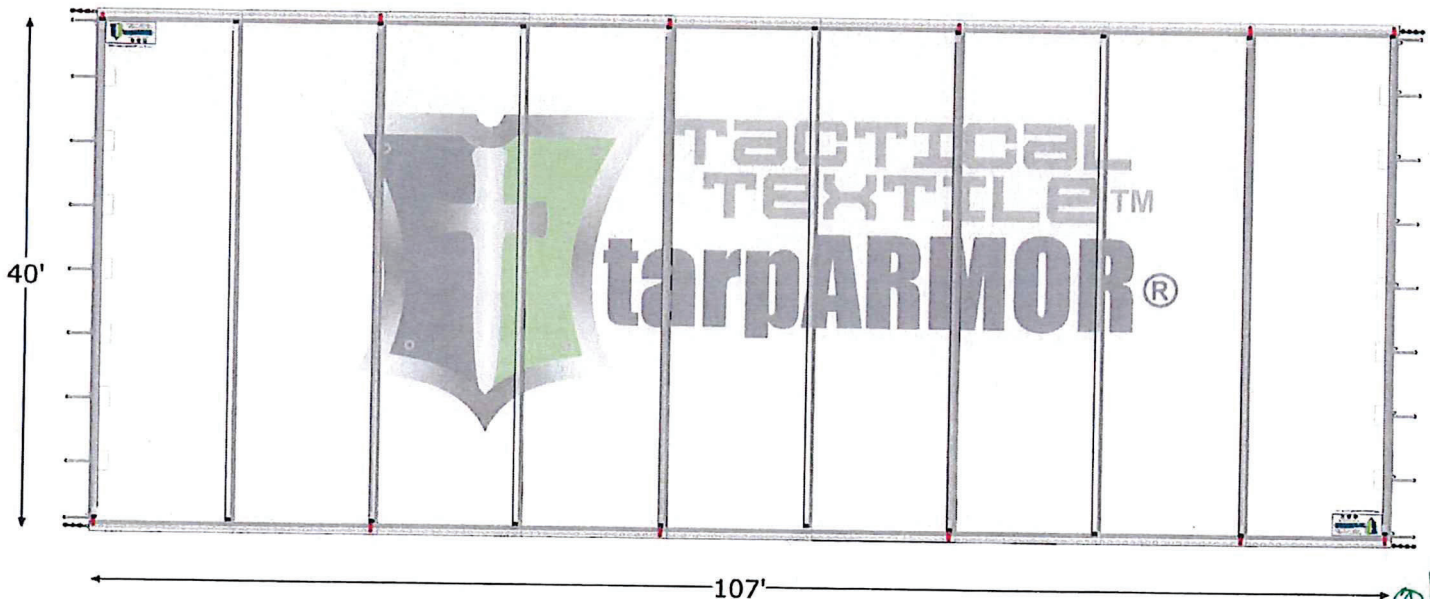


L/CABLELOX40 (ordered separately)
Cable cut at 39'3"
tarpLOX attached to each end and tightened securely

Only install in sleeves if loading onto spool. Otherwise ship separate.

Standard package:
6 per tarp
Install in every other Cable Sleeve with 1 ea in last two sleeves

Wind package option:
10 per tarp
Install in every Cable Sleeve



SPH 11/3/20

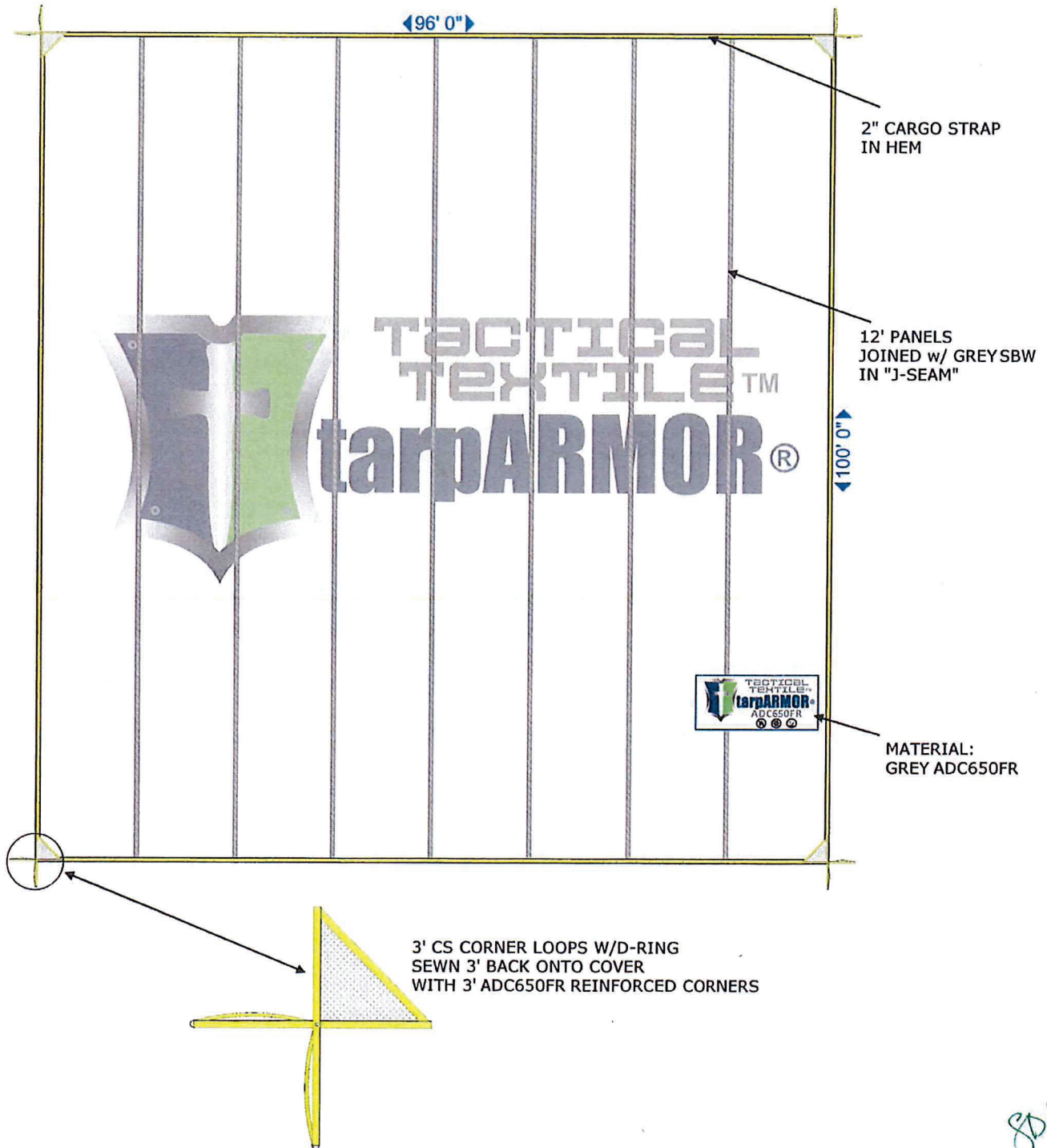


Order Date: _____

Sales Order: _____

Customer: _____

L/96X100CPRC-TT



SDH
1/13/20

ATTACHMENT 3

**SYNTHETIC TARP ADC TEMPORARY AUTHORIZATION
APPROVAL LETTERS**

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 27, 2022

Mr. Brett O'Connor
Region Engineer
Post Oak Clean Green, Inc.
3 Waterway Square Place
Suite 550
The Woodlands, Texas 77380

Subject: Post Oak Landfill - Guadalupe County
Municipal Solid Waste (MSW) - Permit No. 2378
Temporary Authorization - Approved
Tracking No. 27810551; RN106314990/CN604018655

Dear Mr. O'Connor:

We have reviewed the request dated September 8, 2022, for a temporary authorization for the above-referenced facility to use synthetic tarps on a trial basis to evaluate its effectiveness as an alternate daily cover (ADC) material. In accordance with Title 30 Texas Administrative Code, §305.62(k), our evaluation indicates that the information presented is sufficient to allow the requested temporary authorization with the conditions established in the enclosed issuance document.

The enclosed copy of the referenced temporary authorization should be maintained in the facility's files. The documentation prepared and submitted to support the temporary authorization request shall be considered as requirements of the permit.

If you have any questions concerning this matter, please contact Steve Odil at (512) 239-4568, by email at steve.odil@tceq.texas.gov, or in writing at the address on our letterhead (please include mail code MC 124 on the first line).

This action is taken under authority delegated by the executive director of the Texas Commission on Environmental Quality.

Sincerely,

A handwritten signature in black ink, appearing to read "Megan Henson".

Megan Henson, Manager
Municipal Solid Waste Permits Section
Waste Permits Division

MH/SPO/tw

cc: Jonathan V. Queen, P.E.

Enclosure

Texas Commission on Environmental Quality



Temporary Authorization Municipal Solid Waste Permit No. 2378 Post Oak Clean Green, Inc. – Post Oak Municipal Solid Waste Landfill

Municipal Solid Waste (MSW) Permit No. 2378 is hereby authorized as follows.

Description of Temporary Authorization:

Post Oak MSW Landfill, MSW Permit No. 2378 is hereby authorized to use the following material on a trial basis to evaluate its effectiveness as an alternative daily cover (ADC), subject to the following conditions.

1. The permittee shall contact the Texas Commission on Environmental Quality Region 13 office at least 10 days prior to the use of ADC materials and on a regular basis thereafter, to allow inspection and monitoring of the performance of the ADC material during this trial period.
2. Types of ADC material to be used during this trial period shall be limited to the following.
 - Polypropylene Tarps - ADC650FR Tactical Textile ADC Tarp by tarpARMOR, or equivalent
3. The use of ADC materials is limited to a 24-hour period after which either waste or daily cover as defined in Title 30 Texas Administrative Code (30 TAC), §330.165(a) must be placed.
4. The trial period begins November 7, 2022.
5. The ADC trial period should include all seasons of the year; therefore, as the facility nears the end of the initial trial period, an extension may be requested. Each ADC material listed in this temporary authorization may be used for not more than 180 days following initiation of the trial period, and for an additional trial period not to exceed 180 days upon approval of a one-time extension. This temporary authorization for the first trial period will expire 180 days after the initiation of the trial period.
6. If after a one-year trial period, the ADC material proves to be effective as daily cover in accordance with 30 TAC §330.165(d), the facility may request to incorporate the material as an option in the permit by an amendment in accordance with 30 TAC §305.62, or a modification with notice in accordance with 30 TAC §305.70(k)(1).

7. In accordance with 30 TAC §330.165(d)(2), written status reports for each ADC material shall be submitted on a two-month basis to the executive director during the trial period. The reports shall include usage logs listing the days the ADC was used at the site and shall contain information describing the effectiveness of the ADC material, any problems that may have occurred, and corrective action required as a result of such problems. If an ADC material is not utilized during each two-month period, the status report should also discuss this fact.

The details of this temporary authorization are contained in the request dated September 8, 2022 and shall be considered as requirements of the permit.

Approved, Issued and Effective in accordance with 30 TAC §305.62(k), for 180 days.

Issued Date: September 27, 2022



For the Commission

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Erin E. Chancellor, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 24, 2023

Mr. Brett O'Connor
Region Engineer
Post Oak Clean Green, Inc.
3 Waterway Square Place
Suite 550
The Woodlands, Texas 77380

Subject: Post Oak Municipal Solid Waste Landfill – Guadalupe County
Municipal Solid Waste (MSW) – Permit No. 2378
Temporary Authorization – Approved
Tracking No. 28388356; RN106314990/CN604018655

Dear Mr. O'Connor:

We have reviewed the request dated March 14, 2023, for an extension to a temporary authorization for the above-referenced facility to use synthetic tarps on a trial basis to evaluate its effectiveness as an alternate daily cover (ADC) material. In accordance with Title 30 Texas Administrative Code, §305.62(k), our evaluation indicates that the information presented is sufficient to allow the requested temporary authorization with the conditions established in the enclosed issuance document.

The enclosed copy of the referenced temporary authorization should be maintained in the facility's files. The documentation prepared and submitted to support the temporary authorization request shall be considered as requirements of the permit.

If you have any questions concerning this matter, please contact Steve Odil at (512) 239-4568, by email at steve.odil@tceq.texas.gov, or in writing at the address on our letterhead (please include mail code MC 124 on the first line).

This action is taken under authority delegated by the executive director of the Texas Commission on Environmental Quality.

Sincerely,

A handwritten signature in black ink, appearing to read "Megan Henson".

Megan Henson, Manager
Municipal Solid Waste Permits Section
Waste Permits Division

MH/SPO/tw

cc: Jonathan V. Queen, P.E., Weaver Consultants Group, LLC, Fort Worth

Enclosure

Texas Commission on Environmental Quality



Temporary Authorization Municipal Solid Waste Permit No. 2378 Post Oak Clean Green, Inc. – Post Oak Municipal Solid Waste Landfill

Municipal Solid Waste (MSW) Permit No. 2378 is hereby authorized as follows.

Description of Temporary Authorization:

Post Oak MSW Landfill, MSW Permit No. 2378, is hereby authorized to use the following material on a trial basis to evaluate its effectiveness as an alternative daily cover (ADC), subject to the following conditions.

1. The permittee shall contact the Texas Commission on Environmental Quality Region 13 office on a regular basis to allow inspection and monitoring of the performance of the ADC material during this trial period.
2. Types of ADC material to be used during this trial period shall be limited to the following.
 - Polypropylene Tarps - ADC650FR Tactical Textile ADC Tarp by tarpARMOR, or equivalent
3. The use of ADC materials is limited to a 24-hour period after which either waste or daily cover as defined in Title 30 Texas Administrative Code (30 TAC), §330.165(a) must be placed.
4. The trial period begins May 6, 2023.
5. This ADC trial period extension, along with the original authorization, should include all seasons of the year. The ADC material listed in this temporary authorization may be used for not more than 180 days following initiation of the trial period extension. This temporary authorization extension will expire 180 days after the initiation of the trial period and may not be extended.
6. If after a one-year trial period, the ADC material proves to be effective as daily cover in accordance with 30 TAC §330.165(d), the facility may request to incorporate the material as an option in the permit by an amendment in accordance with 30 TAC §305.62, or a modification with notice in accordance with 30 TAC §305.70(k)(1).
7. In accordance with 30 TAC §330.165(d)(2), written status reports for each ADC material shall be submitted on a two-month basis to the executive director during the trial period. The reports shall include usage logs listing the days the ADC was used at the site and shall contain information describing the effectiveness of the ADC material, any

Temporary Authorization
MSW Permit No. 2378
Page 2 of 2

problems that may have occurred, and corrective action required as a result of such problems. If an ADC material is not utilized during each two-month period, the status report should also discuss this fact.

The details of this temporary authorization are contained in the requests dated September 8, 2022 and March 14, 2023 and shall be considered as requirements of the permit.

Approved, Issued and Effective in accordance with 30 TAC §305.62(k), for 180 days.

Issued Date: March 24, 2023



For the Commission

ATTACHMENT 4
TCEQ – 20650 FORM



Texas Commission on Environmental Quality Application Form for Municipal Solid Waste Permit or Registration Modification or Temporary Authorization

Application Tracking Information

Facility Name: Post Oak Landfill
Permittee or Registrant Name: Post Oak Clean Green, Inc.
MSW Authorization Number: 2378
Initial Submission Date: 08/2023
Revision Date: _____

Instructions for completing this form are provided in [form TCEQ-20650-instr](#)¹. If you have questions, contact the Municipal Solid Waste Permits Section by email to mswper@tceq.texas.gov, or by phone at 512-239-2335.

Application Data

1. Submission Type
<input checked="" type="checkbox"/> Initial Submission <input type="checkbox"/> Notice of Deficiency (NOD) Response
2. Authorization Type
<input checked="" type="checkbox"/> Permit <input type="checkbox"/> Registration
3. Application Type
<input checked="" type="checkbox"/> Modification with Public Notice <input type="checkbox"/> Modification without Public Notice <input type="checkbox"/> Temporary Authorization (TA) <input type="checkbox"/> Modification for Name Change or Transfer
4. Application Fee
Amount The application fee for a modification or temporary authorization is \$150.
Payment Method <input type="checkbox"/> Check <input checked="" type="checkbox"/> Online through ePay portal www3.tceq.texas.gov/epay/ If paid online, enter ePay Trace Number: <u>582EA000564311</u>

¹ www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20650-instr.pdf

5. Application URL

For modifications that require notice (other than those for arid exempt landfills), provide the URL address of a publicly accessible internet web site where the application and all revisions to the application will be posted:

www.ftweaverboos.com

6. Party Responsible for Mailing Notice

For modifications that require notice, indicate who will be responsible for mailing notice:

Applicant Agent in Service Consultant

Contact Name: Jonathan V Qween

Title: Project Director

Email Address: jqueen@wcgrp.com

7. Confidential Documents

Does the application contain confidential documents?

Yes No

If "Yes", reference the confidential documents in the application, but submit the confidential documents as an attachment in a separate binder marked "CONFIDENTIAL."

8. Facility General Information

Facility Name: Post Oak Landfill

Contact Name: Dillon Hoppe Title: Region Engineer

MSW Authorization Number (if existing): 2378

Regulated Entity Reference Number: **RN** 106314990

Physical or Street Address: 7787 FM Rd 1150

City: Seguin County: Guadalupe State: TX Zip Code: 78155

Phone Number: 866-218-4761

Latitude (Degrees, Minutes Seconds): 29° 36" 18.72' N

Longitude (Degrees, Minutes Seconds): 97° 43" 27.84' W

9. Facility Types

Type I Type IV Type V
 Type IAE Type IVAE Type VI

10. Description of the Revisions to the Facility

Provide a brief description of revisions to permit or registration conditions and supporting documents referred to by the permit or registration, and a reference to the specific provisions under which the modification or temporary authorization application is being made. Also, provide an explanation of why the modification or temporary authorization is needed:

The purpose of this permit modification is to request the use of synthetic tarps as alternative daily cover (ADC) at the Post Oak Landfill on a permanent basis.

11. Facility Contact Information

Site Operator (Permittee or Registrant)

Name: Post Oak Clean Green, Inc.

Customer Reference Number: **CN** 604018655

Contact Name: Dillon Hoppe Title: Region Engineer

Mailing Address: 3 Waterway Square Place, Suite 550

City: The Woodlands County: Montgomery State: TX Zip Code: 77380

Phone Number: 882-442-2920

Email Address: dillon.hoppe@WasteConnections.com

Texas Secretary of State (SOS) Filing Number: 0801094928

Operator (if different from Site Operator)

Name: Same as Site Operator

Customer Reference Number: **CN** _____

Contact Name: _____ Title: _____

Mailing Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Phone Number: _____

Email Address: _____

Texas Secretary of State (SOS) Filing Number: _____

Consultant (if applicable)

Firm Name: Weaver Consultants Group, LLC
Consultant Name: Jonathan V. Queen
Texas Board of Professional Engineers Firm Registration Number: F-3727
Contact Name: Jonathan V. Queen Title: Project Director
Mailing Address: 6420 Southwest Blvd., Suite 206
City: Fort Worth County: Tarrant State: TX Zip Code: 76109
Phone Number: 817-735-9770
Email Address: jqueen@wcgrp.com

Agent in Service (required for out-of-state applicants)

Name: _____
Mailing Address: _____
City: _____ County: _____ State: TX Zip Code: _____
Phone Number: _____
Email Address: _____

12. Ownership Status of the Facility

Is this a modification that changes the legal description, the property owner, or the Site Operator (Permittee or Registrant)?

Yes No

If the answer is "No", skip this section.

Does the Site Operator (Permittee or Registrant) own all the facility units and all the facility property?

Yes No

If "No", provide the following information for other owners.

Owner Name: _____
Mailing Address: _____
City: _____ County: _____ State: TX Zip Code: _____
Phone Number: _____
Email Address: _____

Signature Page

Site Operator or Authorized Signatory

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: Dillon Hoppe Title: Region Engineer

Email Address: dillon.hoppe@WasteConnections.com

Signature: [Handwritten Signature] Date: 8/25/2023

Operator or Principal Executive Officer Designation of Authorized Signatory

To be completed by the operator if the application is signed by an authorized representative for the operator.

I hereby designate _____ as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality 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.

Operator or Principal Executive Officer Name: _____

Email Address: _____

Signature: _____ Date: _____

Notary

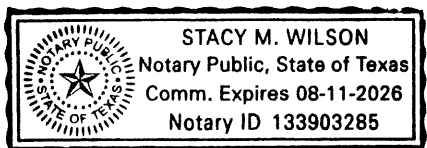
SUBSCRIBED AND SWORN to before me by the said Dillon Hoppe

On this 25th day of August, 2023

My commission expires on the 11th day of August, 2026

Stacy M. Wilson

Notary Public in and for
TARRANT County, Texas



Note: Application Must Bear Signature and Seal of Notary Public

Attachments for Permit or Registration Modification with Public Notice

Refer to instruction document **200650-instr** for professional engineer seal requirements.

Attachments Table 1. Required attachments.

Required Attachments	Attachment Number
Land Ownership Map	Attachment 5
Landowners List	Attachment 5
Marked (Redline/Strikeout) Pages	Attachment 1
Unmarked Revised Pages	Attachment 2

Attachments Table 2. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
<input type="checkbox"/> TCEQ Core Data Form(s)	
<input type="checkbox"/> Signatory Authority Delegation	
<input type="checkbox"/> Fee Payment Receipt	
<input type="checkbox"/> Confidential Documents	

Attachments for Permit or Registration Modification without Public Notice, or Temporary Authorization

Refer to instruction document **200650-instr** for professional engineer seal requirements.

Attachments Table 3. Required attachments for modifications.

Required Attachments for Modification	Attachment Number
Marked (Redline/Strikeout) Pages	
Unmarked Revised Pages	

Attachments Table 4. Additional attachments for modifications and temporary authorizations, as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
<input type="checkbox"/> TCEQ Core Data Form(s)	
<input type="checkbox"/> Signatory Authority Delegation	
<input type="checkbox"/> Fee Payment Receipt	
<input type="checkbox"/> Confidential Documents	

Attachments for Permit or Registration Name Change or Transfer Modification

Refer to instruction document **200650-instr** for professional engineer seal requirements.

Attachments Table 5. Required attachments.

Required Attachments	Attachment Number
TCEQ Core Data Form(s)	
Property Legal Description	
Property Metes and Bounds Description	
Metes and Bounds Drawings	
On-Site Easements Drawing	
Land Ownership Map	
Land Ownership List	
Property Owner Affidavit	
Verification of Legal Status	
Evidence of Competency	

Attachments Table 6. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
<input type="checkbox"/> Signatory Authority Delegation	
<input type="checkbox"/> Fee Payment Receipt	
<input type="checkbox"/> Confidential Documents	
<input type="checkbox"/> Final Plat Record of Property	
<input type="checkbox"/> Assumed Name Certificate	

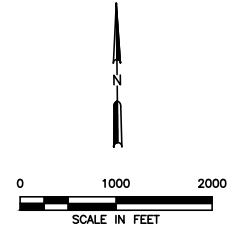
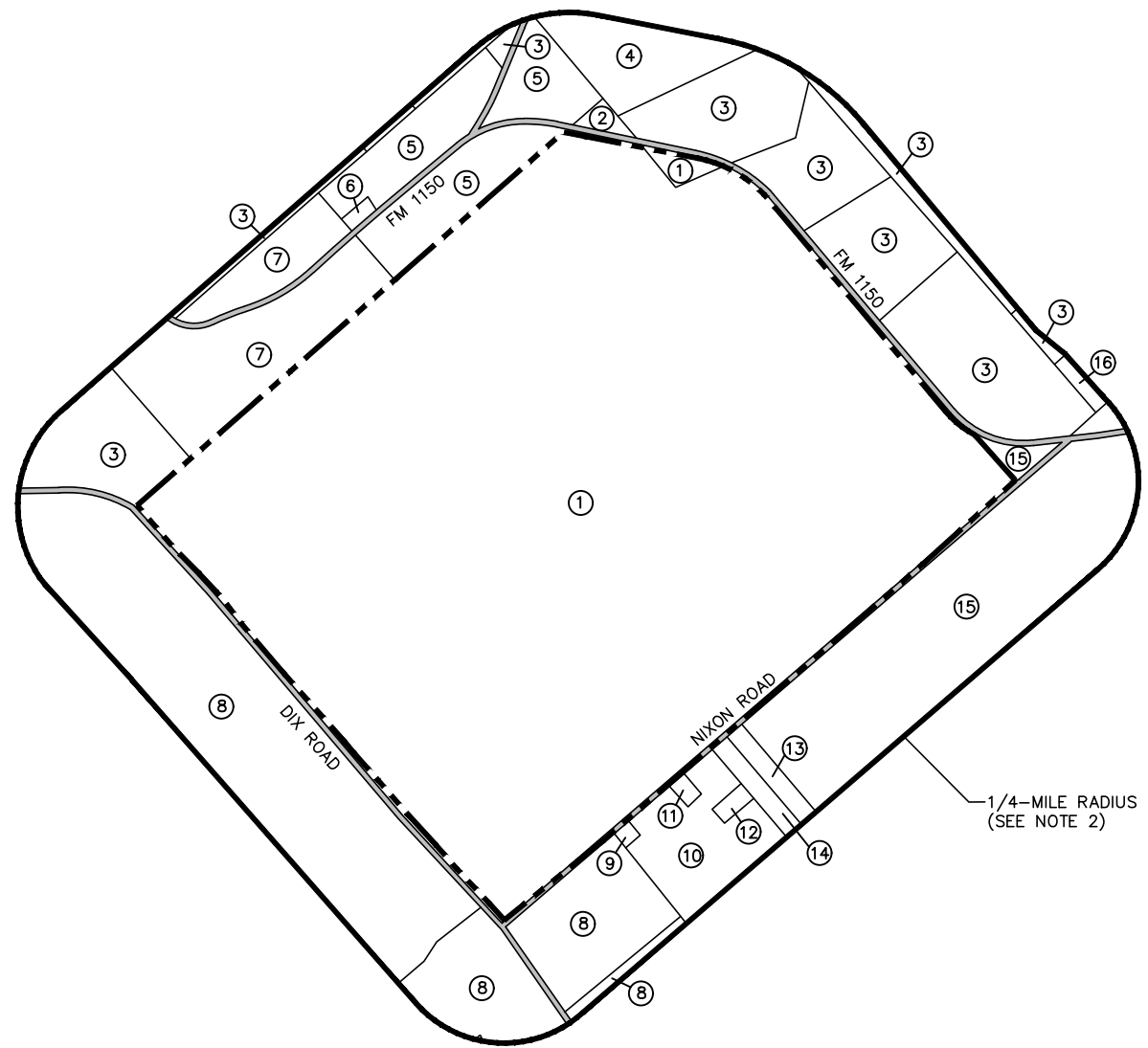
ATTACHMENT 5
ADJACENT PROPERTY OWNER LIST AND MAP

ADJACENT LANDOWNERS INFORMATION

The following list in Table 5-1 and Figure 5-1 provide the names, mailing addresses, and locations of the “Adjacent and Potentially Affected Landowners” around the facility. The list is based on appraisal district records of the Guadalupe County Appraisal District as of August 2023 and includes tracts within 1/4 mile of the permit boundary. Refer to Figure 5-1, Adjacent Landowners Map, for locations of the properties. The numbers on the landowners list correspond to the numbers listed on Figure 5-1. There are no known easement holders within the registration boundary. The Guadalupe County Appraisal District records do not list mineral rights ownership records.

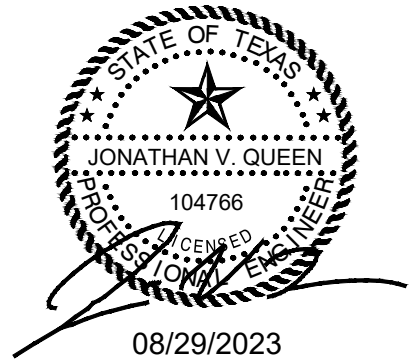
TABLE 5-1
ADJACENT LANDOWNERS LIST

- | | |
|---|---|
| 1. POST OAK CLEAN GREEN, INC.
PO BOX 1033
LULING, TX 78648 | 10. WOOD CARL G
704 HIDATAS COVE
AUSTIN, TX 78748 |
| 2. MERGELE RICHARD R & CARLA
410 E GONZALES ST
SEGUIN, TX 78155 | 11. CHESHIRE LIVING TRUST DTD
8-18-2022
621 NIXON RD
KINGSBURY, TX 78638 |
| 3. K4 RANCHES
3405 OLD SEGUIN LULING RD
SEGUIN, TX 78155 | 12. WOOD CARL GENE
704 HIDATAS COVE
AUSTIN, TX 78748 |
| 4. MERGELE RICHARD & CAROLYN
2680 DARST FIELD RD
LULING, TX 78648 | 13. CHESHIRE BRUCE OWEN LIVING TRUST
DTD MAY 16, 2014
2229 GARDEN COURT
SAN MARCOS, TX 78666 |
| 5. MERGELE RICHARD
2680 DARST FIELD RD
LULING, TX 78648 | 14. NASH CLAUDIA
871 NIXON ROAD
KINGSBURY, TX 78638 |
| 6. MERGELE RICHARD ROE
2680 DARST FIELD ROAD
LULING, TX 78648 | 15. WATTS JAMES W JR
2015 CRESCENT PALM CT
HOUSTON, TX 77077 |
| 7. TURNER DORIS JEAN
812 EVERYDAY WAY APT 1015
CIBOLO, TX 78108 | 16. WATTS JAMES III
2015 CRESCENT PALM CT
HOUSTON, TX 77077 |
| 8. COYOTE CROSSING RANCH LTD
435 NIXON RD
KINGSBURY, TX 78638 | |
| 9. WOOD JUSTIN
439 NIXON RD
KINGSBURY, TX 78638 | |



LEGEND
 - - - - - PROPERTY BOUNDARY

- NOTES:
- ① REFERS TO PROPERTY OWNERS LISTED ON TABLE 1 – ADJACENT LANDOWNERS LIST.
 - THIS LINE REPRESENTS A 1/4-MILE DISTANCE FROM THE PRRMIT BOUNDARY.
 - PROPERTY OWNERS LIST WAS DEVELOPED FROM GUADALUPE COUNTY APPRAISAL DISTRICT RECORDS AS OF AUGUST 2023.



<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION		PREPARED FOR POST OAK CLEAN GREEN, INC.	PERMIT MODIFICATION ADJACENT LANDOWNERS MAP											
DATE: 08/2023 FILE: 0601-709-11 CAD: 5-1-LANDOWNER MAP.DWG	DRAWN BY: SRF DESIGN BY: CW REVIEWED BY: JBP	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DATE	DESCRIPTION								
NO.	DATE	DESCRIPTION												
		WWW.WCGRP.COM	FIGURE 5-1											

C:\0601\709\TARP PERMIT MOD\5-1 LANDOWNERS.dwg - jpubr - 1:2