



Sustainability in Action

August 23, 2022

Mr. Chance Goodin, Manager
Municipal Solid Waste Permits Section, MC-124
Texas Commission on Environmental Quality
12100 Park 35 Circle
Building A, Room 122
Austin, TX 78753-1808

Re: Permit Modification – VERDac Alternative Daily Cover
Pinehill Landfill – Permit No. MSW-1327B
Gregg County, Texas

Dear Mr. Goodin:

The purpose of this permit modification is to request the use of VERDac Landfill Cover Pellets 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, VERDac Landfill Cover Pellets has been used effectively at the site to control vectors, odors, and windblown waste. As requested in the Temporary Authorization Condition 7 of the July 29, 2021 approval letter, the ADC evaluation period covered all four seasons of the year.

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.

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 applicants 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.

During your review, if you need additional information or have any questions, please call.

Sincerely,



Austin Sparks, P.E.
Environmental Manager

Attachments: Attachment 1 – SOP Replacement Pages (Redline/Strikeout Copy)
Attachment 2 – SOP Replacement Pages (Clean Copy)
Attachment 3 – VERDAC Temporary Authorization Approval Letters
Attachment 4 – TCEQ – 20650 Form
Attachment 5 – Adjacent Landowners List and Map

cc: TCEQ Region 5
Bill Bybel, Pine Hill Farms Landfill TX, LP
Ryne J. Spicer, P.E., Weaver Consultants Group, LLC

ATTACHMENT 1

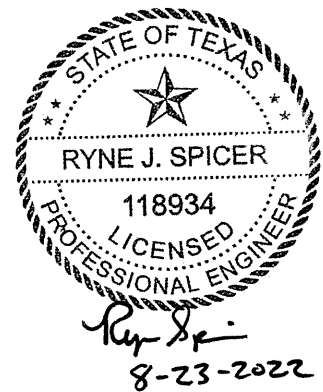
SOP REPLACEMENT PAGES (REDLINE/STRIKEOUT COPY)

**PINEHILL LANDFILL
GREGG COUNTY, TEXAS
TCEQ PERMIT NO. MSW-1327B
PERMIT MODIFICATION
SITE OPERATING PLAN
APPENDIX B
ALTERNATIVE DAILY COVER INFORMATION**

Prepared for
Pine Hill Farms Landfill TX, LP

July 2006
Revised January 2013
Revised March 2016
Revised September 2021

Revised August 2022



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

WCG Project No. 0120-077-11-10

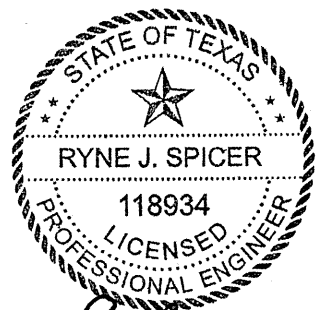
ADC SUMMARY

The site is currently approved to use Enviro-Plus and Quick-Cover/Quick-Cover LT, and VERDac a spray-on type ADC, synthetic tarp ADC, and contaminated soils ADC. The Enviro-Plus material was approved on July 7, 2003. The approval letter for Enviro-Plus is included in Appendix B-1, the ADCOP for synthetic tarps is provided in Appendix B-2, and the ADCOP for contaminated soils are provided in Appendix B-3, and the ADCOP for Quick-Cover/Quick-Cover LT is provided in Appendix B-4, and the ADCOP for VERDac Landfill Cover Pellets is provided in Appendix B-5.

Consistent with 30 TAC §330.165(d), a temporary authorization will be submitted for any additional future ADC materials. Consistent with 30 TAC §330.165(d)(2), after a Temporary Authorization to use a new ADC material is approved, a status report for the new ADC material will be submitted on a two-month basis to the TCEQ describing the effectiveness of the alternative material, any problems that may have occurred, and corrective actions required as a result of such problems. The trial period will be for two 180-day periods with an extension request to be submitted near the end of the first 180-day period. If no unresolved problems occur within the trial period, a permit modification consistent with 30 TAC §305.70(k)(1) will be submitted to the TCEQ to obtain permanent approval of the ADC material.

APPENDIX B-5

**VERDac LANDFILL COVER PELLETS
ALTERNATIVE DAILY COVER OPERATING PLAN**



Ryne Spicer
8-23-2022

CONTENTS

1	INTRODUCTION	B-5-1
2	MATERIAL CHARACTERISTICS	B-5-2
	2.1 Description of VERDac Landfill Cover Pellets	B-5-2
	2.2 Chemical Characteristics	B-5-2
3	OPERATIONAL METHODS	B-5-3
	3.1 VERDac Landfill Cover Pellets	B-5-3
4	ADC MATERIAL PERFORMANCE AND INSPECTION PROCEDURES	B-5-4
	4.1 ADC Performance	B-5-4
	4.2 Verification and Inspection Procedures	B-5-4

APPENDIX B-5-1

VERDac Landfill Cover Pellets



1 INTRODUCTION

This Alternative Daily Cover Operating Plan (ADCOP) has been prepared for the Pinehill 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 alternative daily cover (ADC) materials:

- Description and thickness of the proposed ADC material
- Chemical composition of the material
- Operation methods to be utilized at the site when using the ADC
- 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 within 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.

Before a specific ADC is used at the site, a temporary authorization, prepared consistent with §305.70(m), will be submitted and approval obtained from the TCEQ. After a material has been demonstrated to be used effectively for a trial period of two 180 day periods, the site will submit a permit modification per §305.70(k)(1) to obtain permanent approval of the ADC material. The status reports will document the effectiveness of the ADC material during this trial period.

2 MATERIAL CHARACTERISTICS

2.1 Description of VERDac Landfill Cover Pellets

VERDac Landfill Cover Pellets (VERDac) is a spray-applied mulch and mineral mortar slurry product manufactured by LSC Environmental Products, LLC. VERDac Landfill Cover Pellets ADC is a non-flammable blend of mulch and mineral binder providing a thin, non-toxic coating which has been demonstrated as effective for controlling odors, windblown waste, and vectors at numerous facilities.

2.2 Chemical Characteristics

VERDac is comprised of cellulose fiber, powdered clay, adhesives, and water conditioners. The chemical analysis of VERDac, as well as other pertinent characteristics, are found in Appendix B-5-1.

3 OPERATIONAL METHODS

3.1 VERDac Landfill Cover Pellets

VERDac ADC is a spray-applied mulch and mineral mortar slurry comprised of water and a combination of cellulose fiber, powdered clay, adhesives, and water conditioners. This ADC will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment following the procedures listed below:

The operator will become familiar with this ADCOP and VERDac. Specifically, the mixing ratio and application rate for the spray-type ADC material. This ADCOP includes information on VERDac in Appendix C as well as the SDS; however, the manufacturer's instructions included with the ADC material itself should be followed as well.

1. The operator will mix the spray ADC according to the manufacturer's recommendations (50-pound bag to 80 gallons). Then using the hydromulch machine, the operator will apply the ADC from at least two different directions to achieve a minimum thickness of 0.25 inches over the exposed waste at the working face. The operator will visually inspect the ADC to ensure that the minimum thickness is achieved and that no waste is exposed.
2. The operator will not use the spray ADC around or near ignition sources.
3. The operator will be responsible for storing the spray ADC material in a location that is not susceptible to ponding water. The spray ADC material will be stored in the manufacturer's protective plastic wrapping, under a tarp, or equivalent, at all times to protect the material from moisture damage and direct sunlight. The operator will be responsible for inspecting the spray ADC material for moisture damage or other defects before each use. Any damaged or defective materials will not be allowed for use as ADC.
4. No more than 1,000 bags/bails of spray ADC material will be stored at the site at any time.
5. Stormwater that comes into contact with the VERDac ADC during use or storage will be treated as contaminated water and controlled in accordance with Section 4.21 of the Site Operating Plan (i.e., contained within the containment berms around the active area).

4 ADC MATERIAL PERFORMANCE AND INSPECTION PROCEDURES

4.1 ADC Performance

The VERDac ADC specified in this plan creates a thin, non-toxic barrier over the waste. VERDac ADC will control vectors, odor, and windblown waste, as well as minimize fire hazards by creating a physical barrier between the atmosphere and waste due to the cohesive nature of the ADC material.

4.2 Verification and Inspection Procedures

At the end of each working day, landfill personnel will inspect the working face to confirm that the minimum thickness of VERDac 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.

In the event VERDac does not control vectors, fires, odors, or windblown litter and waste, the subject ADC application process will be re-evaluated to ensure that the ADC material adequately covers the working face and serves its intended purpose. Any required changes to the ADC operational procedures will be documented in the Site Operating Record.

APPENDIX B-5-1

VERDac LANDFILL COVER PELLETS



GHS Safety Data Sheet

SDS

LSC Environmental Products, LLC
Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 1 of 4

1 Identification

Supplier	LSC Environmental Products, LLC 2183 Pennsylvania Ave Apalachin, NY 13732
Telephone:	607-625-3050
Fax:	607-625-2688
Web:	www.lscenv.com
Product Name	VERDac Landfill Cover Pellets
Description:	Green Dyed Cellulose Fiber from Shredded Wastepaper and Corn Fiber and Sodium Montmorillonite Clay with Additives
CAS Number:	N/A
Recommended Use:	Alternative Daily Cover and Hydroseeding.

2 Hazards Identification

Route of Entry:	Eye Contact, Skin Contact, Inhalation
Hazards:	Eye: May cause mechanical irritation.
	Skin: May cause mild skin irritation.
	Ingestion: No known health effects.
	Inhalation: Acute: Short term exposure may cause mechanical irritation resulting in dry cough. May aggravate existing respiratory illness.
	Chronic: Repeated inhalation of respirable* crystalline silica above exposure limits can cause lung disease, including silicosis and lung cancer.

3 Composition / Information on Ingredients

Components in order of Volume:
Cellulose Fiber, Corn Fiber, Sodium Montmorillonite Clay* (Cas # 1318-93-0), Proprietary ingredients and biodegradable green coloring.

*Typical western SMC contains 1-6% crystalline silica as quartz CAS# 14808-60-7.

4 First-Aid Measures

Eye:	Flush eyes and under eye lids with plenty of water until irritation ceases. Contact physician if irritation persists.
Skin:	Wash with soap and water until clean. Contact physician if irritation develops.
Ingestion:	None known.
Inhalation:	Move to area free from dust. If symptoms of irritation persist, contact physician.



GHS Safety Data Sheet

SDS

LSC Environmental Products, LLC
Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 2 of 4

Inhalation may aggravate existing respiratory illness.

5 Fire Fighting Measures

Flammability: Combustible product
Auto-ignition Temp: 400-500 F
Fire Extinguishing Media: Water, Carbon Dioxide, Sand.

6 Accidental Release Measures

Personal Precaution: Avoid breathing dust; wear respirator approved for silica bearing dust.
Cleanup: Vacuum to avoid generating airborne dust. Avoid using water. Material becomes slippery when wet.

7 Handling and Storage

Handling: Use NIOSH/MSHA respirators approved for silica bearing dust when airborne SMC dust levels exceed PEL/TLVs. Clean up spills promptly to avoid making dust. Storage area floors may become slippery if wetted.
Storage: Store in a dry place. Keep away from ignition sources.

8 Exposure Controls / Personal Protection

Exposure Guidelines (Inhalation):

Component	OSHA PEL (8 hr TWA)	ACGIH TVL
Crystalline Silica as Quartz	0.1 mg/m ³	0.1 mg/m ³
Wood Dust	1 mg/m ³	1 mg/m ³
Particles Not Otherwise Regulated		
Total Dust	15 mg/m ³	N/A
Respirable Dust	5 mg/m ³	N/A

Engineering Controls: None required for outdoor mixing and application. Use local ventilation to maintain PELs/TLVs if handling indoors.

Personal Protective Equipment:
Eye and Face Protection:

Wear safety glasses or goggles during loading and application to protect from dust, splashing, and spray mist.

Skin Protection:

Wear gloves and overalls to protect skin and clothing from contact with product. Personal hygiene measures, such as washing hands and face after working with materials, are recommended.



GHS Safety Data Sheet

SDS

LSC Environmental Products, LLC
Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 3 of 4

Respiratory Protection:

When handling generates dust levels above exposure limits, use respirators approved by NIOSH/MSHA for silica bearing dust.

9 Physical and Chemical Properties

Appearance:	Green Pellets
Odor:	N/A
Physical State:	Granular Mixture of Cellulose Fiber, Corn Fiber, Sodium Montmorillonite Clay, Proprietary Ingredients, Dye
pH:	5.5-7.0
Specific Density:	20-35#'/ft ³ (approximate)
Specific Gravity:	N/A
Solubility in Water:	<2%
Vapor Pressure (mm Hg):	N/A

10 Stability and Reactivity

Stability:	Stable
Conditions to Avoid:	Avoid open flame. Store in dry areas.
Materials to Avoid:	N/A
Hazardous Polymerization:	No.

11 Toxicological Information

- Carcinogenicity:
- Sodium Montmorillonite Clay is not listed by ACGIH, IARC, NTP, or OSHA.
 - IARC, 1997, concludes that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica from occupational sources (IARC Class 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity. NTP classifies respirable crystalline silica as "known to be a human carcinogen" (NTP 9th Report on Carcinogens - 2000). ACGIH classifies crystalline silica quartz as a suspected human carcinogen (A2).

12 Ecological Information

No information available.

13 Disposal Considerations

Bury in licensed landfill according to local, state, and federal regulations.



GHS Safety Data Sheet

SDS

LSC Environmental Products, LLC
Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 4 of 4

14 Transportation Information

US DOT: Non-regulated

15 Regulatory Information

None of the components in this product are known to be regulated by national or international regulatory bodies.

16 Other Information

SDS Status: Revised from MSDS format in 2015 to comply with GHS requirements.

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances.

No warranty or guarantee, expressed or implied, is made by LSC Environmental Products, LLC as to this information or as to the safety, toxicity, or effect of the use of this product.

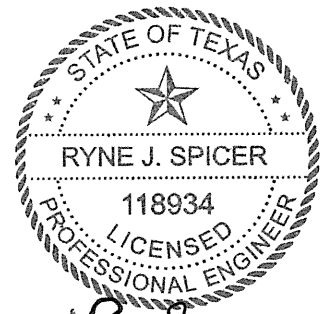
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July 2006
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Ryne Spicer
8-23-2022

Prepared by

Weaver Consultants Group, LLC
TBPE Registration No. F-3727
6420 Southwest Boulevard, Suite 206
Fort Worth, TX 76109
(817) 735-9770

WCG Project No. 0120-077-11-10

ADC SUMMARY

The site is currently approved to use Enviro-Plus, Quick-Cover/Quick-Cover LT, and VERDac spray-on type ADC, synthetic tarp ADC, and contaminated soils ADC. The Enviro-Plus material was approved on July 7, 2003. The approval letter for Enviro-Plus is included in Appendix B-1, the ADCOP for synthetic tarps is provided in Appendix B-2, the ADCOP for contaminated soils are provided in Appendix B-3, the ADCOP for Quick-Cover/Quick-Cover LT is provided in Appendix B-4, and the ADCOP for VERDac Landfill Cover Pellets is provided in Appendix B-5.

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APPENDIX B-5

VERDac LANDFILL COVER PELLETS
ALTERNATIVE DAILY COVER OPERATING PLAN

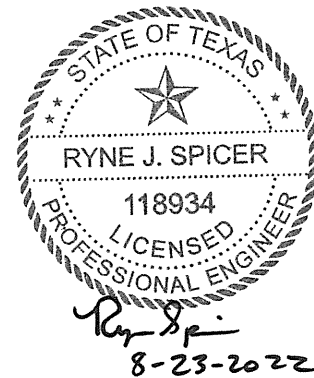


CONTENTS

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2	MATERIAL CHARACTERISTICS	B-5-2
	2.1 Description of VERDac Landfill Cover Pellets	B-5-2
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APPENDIX B-5-1

VERDac Landfill Cover Pellets



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- Chemical composition of the material
- Operation methods to be utilized at the site when using the ADC
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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 within 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.

Before a specific ADC is used at the site, a temporary authorization, prepared consistent with §305.70(m), will be submitted and approval obtained from the TCEQ. After a material has been demonstrated to be used effectively for a trial period of two 180 day periods, the site will submit a permit modification per §305.70(k)(1) to obtain permanent approval of the ADC material. The status reports will document the effectiveness of the ADC material during this trial period.

2 MATERIAL CHARACTERISTICS

2.1 Description of VERDac Landfill Cover Pellets

VERDac Landfill Cover Pellets (VERDac) is a spray-applied mulch and mineral mortar slurry product manufactured by LSC Environmental Products, LLC. VERDac Landfill Cover Pellets ADC is a non-flammable blend of mulch and mineral binder providing a thin, non-toxic coating which has been demonstrated as effective for controlling odors, windblown waste, and vectors at numerous facilities.

2.2 Chemical Characteristics

VERDac is comprised of cellulose fiber, powdered clay, adhesives, and water conditioners. The chemical analysis of VERDac, as well as other pertinent characteristics, are found in Appendix B-5-1.

3 OPERATIONAL METHODS

3.1 VERDac Landfill Cover Pellets

VERDac ADC is a spray-applied mulch and mineral mortar slurry comprised of water and a combination of cellulose fiber, powdered clay, adhesives, and water conditioners. This ADC will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment following the procedures listed below:

The operator will become familiar with this ADCOP and VERDac. Specifically, the mixing ratio and application rate for the spray-type ADC material. This ADCOP includes information on VERDac in Appendix C as well as the SDS; however, the manufacturer's instructions included with the ADC material itself should be followed as well.

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2. The operator will not use the spray ADC around or near ignition sources.
3. The operator will be responsible for storing the spray ADC material in a location that is not susceptible to ponding water. The spray ADC material will be stored in the manufacturer's protective plastic wrapping, under a tarp, or equivalent, at all times to protect the material from moisture damage and direct sunlight. The operator will be responsible for inspecting the spray ADC material for moisture damage or other defects before each use. Any damaged or defective materials will not be allowed for use as ADC.
4. No more than 1,000 bags/bails of spray ADC material will be stored at the site at any time.
5. Stormwater that comes into contact with the VERDac ADC during use or storage will be treated as contaminated water and controlled in accordance with Section 4.21 of the Site Operating Plan (i.e., contained within the containment berms around the active area).

4 ADC MATERIAL PERFORMANCE AND INSPECTION PROCEDURES

4.1 ADC Performance

The VERDac ADC specified in this plan creates a thin, non-toxic barrier over the waste. VERDac ADC will control vectors, odor, and windblown waste, as well as minimize fire hazards by creating a physical barrier between the atmosphere and waste due to the cohesive nature of the ADC material.

4.2 Verification and Inspection Procedures

At the end of each working day, landfill personnel will inspect the working face to confirm that the minimum thickness of VERDac 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.

In the event VERDac does not control vectors, fires, odors, or windblown litter and waste, the subject ADC application process will be re-evaluated to ensure that the ADC material adequately covers the working face and serves its intended purpose. Any required changes to the ADC operational procedures will be documented in the Site Operating Record.

APPENDIX B-5-1

VERDac LANDFILL COVER PELLETS



GHS Safety Data Sheet

SDS

LSC Environmental Products, LLC
Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 1 of 4

1 Identification

Supplier	LSC Environmental Products, LLC 2183 Pennsylvania Ave Apalachin, NY 13732
Telephone:	607-625-3050
Fax:	607-625-2688
Web:	www.lscenv.com
Product Name	VERDac Landfill Cover Pellets
Description:	Green Dyed Cellulose Fiber from Shredded Wastepaper and Corn Fiber and Sodium Montmorillonite Clay with Additives
CAS Number:	N/A
Recommended Use:	Alternative Daily Cover and Hydroseeding.

2 Hazards Identification

Route of Entry:	Eye Contact, Skin Contact, Inhalation
Hazards:	Eye: May cause mechanical irritation.
	Skin: May cause mild skin irritation.
	Ingestion: No known health effects.
	Inhalation: Acute: Short term exposure may cause mechanical irritation resulting in dry cough. May aggravate existing respiratory illness.
	Chronic: Repeated inhalation of respirable* crystalline silica above exposure limits can cause lung disease, including silicosis and lung cancer.

3 Composition / Information on Ingredients

Components in order of Volume:
Cellulose Fiber, Corn Fiber, Sodium Montmorillonite Clay* (Cas # 1318-93-0), Proprietary ingredients and biodegradable green coloring.

*Typical western SMC contains 1-6% crystalline silica as quartz CAS# 14808-60-7.

4 First-Aid Measures

Eye:	Flush eyes and under eye lids with plenty of water until irritation ceases. Contact physician if irritation persists.
Skin:	Wash with soap and water until clean. Contact physician if irritation develops.
Ingestion:	None known.
Inhalation:	Move to area free from dust. If symptoms of irritation persist, contact physician.



GHS Safety Data Sheet

SDS

LSC Environmental Products, LLC
Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 2 of 4

Inhalation may aggravate existing respiratory illness.

5 Fire Fighting Measures

Flammability: Combustible product
Auto-ignition Temp: 400-500 F
Fire Extinguishing Media: Water, Carbon Dioxide, Sand.

6 Accidental Release Measures

Personal Precaution: Avoid breathing dust; wear respirator approved for silica bearing dust.
Cleanup: Vacuum to avoid generating airborne dust. Avoid using water. Material becomes slippery when wet.

7 Handling and Storage

Handling: Use NIOSH/MSHA respirators approved for silica bearing dust when airborne SMC dust levels exceed PEL/TLVs. Clean up spills promptly to avoid making dust. Storage area floors may become slippery if wetted.
Storage: Store in a dry place. Keep away from ignition sources.

8 Exposure Controls / Personal Protection

Exposure Guidelines (Inhalation):		
Component	OSHA PEL (8 hr TWA)	ACGIH TVL
Crystalline Silica as Quartz	0.1 mg/m ³	0.1 mg/m ³
Wood Dust	1 mg/m ³	1 mg/m ³
Particles Not Otherwise Regulated		
Total Dust	15 mg/m ³	N/A
Respirable Dust	5 mg/m ³	N/A

Engineering Controls: None required for outdoor mixing and application. Use local ventilation to maintain PELs/TLVs if handling indoors.

Personal Protective Equipment:
Eye and Face Protection: Wear safety glasses or goggles during loading and application to protect from dust, splashing, and spray mist.

Skin Protection: Wear gloves and overalls to protect skin and clothing from contact with product. Personal hygiene measures, such as washing hands and face after working with materials, are recommended.



GHS Safety Data Sheet

SDS

LSC Environmental Products, LLC

Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 3 of 4

Respiratory Protection:

When handling generates dust levels above exposure limits, use respirators approved by NIOSH/MSHA for silica bearing dust.

9 Physical and Chemical Properties

Appearance:	Green Pellets
Odor:	N/A
Physical State:	Granular Mixture of Cellulose Fiber, Corn Fiber, Sodium Montmorillonite Clay, Proprietary Ingredients, Dye
pH:	5.5-7.0
Specific Density:	20-35# s/ft ³ (approximate)
Specific Gravity:	N/A
Solubility in Water:	<2%
Vapor Pressure (mm Hg):	N/A

10 Stability and Reactivity

Stability:	Stable
Conditions to Avoid:	Avoid open flame. Store in dry areas.
Materials to Avoid:	N/A
Hazardous Polymerization:	No.

11 Toxicological Information

- Carcinogenicity:
- Sodium Montmorillonite Clay is not listed by ACGIH, IARC, NTP, or OSHA.
 - IARC, 1997, concludes that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica from occupational sources (IARC Class 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity. NTP classifies respirable crystalline silica as "known to be a human carcinogen" (NTP 9th Report on Carcinogens - 2000). ACGIH classifies crystalline silica quartz as a suspected human carcinogen (A2).

12 Ecological Information

No information available.

13 Disposal Considerations

Bury in licensed landfill according to local, state, and federal regulations.



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Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 4 of 4

14 Transportation Information

US DOT: Non-regulated

15 Regulatory Information

None of the components in this product are known to be regulated by national or international regulatory bodies.

16 Other Information

SDS Status: Revised from MSDS format in 2015 to comply with GHS requirements.

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances.

No warranty or guarantee, expressed or implied, is made by LSC Environmental Products, LLC as to this information or as to the safety, toxicity, or effect of the use of this product.

ATTACHMENT 3

VERDAC 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

July 29, 2021

Mr. Austin Sparks
Environmental Manager
Pine Hill Farms Landfill TX, LP
PO Box 1857
Kilgore Texas, 75663

Subject: Pinehill Landfill - Gregg County
Municipal Solid Waste (MSW) - Permit No. 1327B
Temporary Authorization - Approved
Tracking No. 26251932; RN101909737/CN600129530

Dear Mr. Sparks:

We have reviewed the request dated July 2, 2021, for a temporary authorization for the above-referenced facility to use VERDac Landfill Cover Pellets spray-type cover on a trial basis to evaluate its effectiveness as an alternate daily cover (ADC) material(s). 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 Mr. Adam Schnuriger at (512) 239-0526, Adam.Schnuriger@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 cursive script, appearing to read "cgoodin".

Chance Goodin, Manager
Municipal Solid Waste Permits Section
Waste Permits Division
Texas Commission on Environmental Quality

CG/AS/tw

cc: Chad Ellinger, P.E., Civil & Environmental Consultants, Inc., Houston

Enclosure

Texas Commission on Environmental Quality



Temporary Authorization Municipal Solid Waste Permit No. 1327B Pine Hill Farms Landfill TX, LP – Pinehill Landfill

Municipal Solid Waste (MSW) Permit No. 1327B is hereby authorized as follows:

Description of Temporary Authorization:

Pinehill Landfill, MSW Permit No. 1327B is hereby authorized to use the following material(s) 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 5 office at least ten 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(s) during this trial period.
2. Types of ADC material(s) to be used during this trial period shall be limited to the following:
 - VERDac Landfill Cover Pellets by LSC Environmental Products, LLC; Green dyed cellulose fiber from shredded wastepaper and corn fiber and Sodium Montmorillonite.
3. The ADC material will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment and must be prepared as recommended by the manufacturer to achieve an overall thickness of not less than 0.125 inches over the exposed waste.
4. Storm water runoff from areas that have been covered with contaminated soil ADC and from contaminated soil ADC stockpiles shall be controlled and managed as contaminated water.
5. 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.
6. The trial period shall begin 15 days after the date this temporary authorization is issued, unless an alternate start date was requested in writing by the permittee and approved as part of this temporary authorization.
7. 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.

8. If after a one year trial period, the ADC material(s) prove(s) to be effective as daily cover in accordance with 30 TAC §330.165(d), the facility may request to incorporate the material(s) as (an) option(s) 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).
9. 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 July 2, 2021 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: July 29, 2021



For the Commission

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

February 18, 2022

Mr. Austin Sparks
Environmental Manager
Pine Hill Farms Landfill TX, LP
PO Box 1857
Kilgore Texas, 75663

Subject: Pinehill Landfill - Gregg County
Municipal Solid Waste (MSW) - Permit No. 1327B
Temporary Authorization (TA) Extension - Alternate Daily Cover (ADC)
Tracking No. 27199142; RN101909737/CN600129530

Dear Mr. Sparks:

We have reviewed the request dated January 24, 2022, for a one-time extension to a temporary authorization, granted by TCEQ on July 2, 2021, for the above-referenced facility to use VERDac Landfill Cover Pellets on a trial basis to evaluate its effectiveness as an alternate daily cover (ADC) material for an additional 180-days. 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 Mr. Adam Schnuriger at (512) 239-0526, Adam.Schnuriger@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 cursive script, appearing to read "cgoodin".

Chance Goodin, Manager
Municipal Solid Waste Permits Section
Waste Permits Division

CG/AS/nck

cc: Chad Ellinger, P.E., Weaver Consultants Group, LLC, Spring

Enclosure

Texas Commission on Environmental Quality



Temporary Authorization Municipal Solid Waste Permit No. 1327B Pine Hill Farms Landfill TX, LP – Pinehill Landfill

Municipal Solid Waste (MSW) Permit No. 1327B is hereby authorized as follows:

Description of Temporary Authorization:

Pinehill Landfill, MSW Permit No. 1327B is hereby authorized to use the following material on an extended 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 5 office at least ten days prior to the use of the ADC material 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 extended trial period shall be limited to the following:
 - VERDac Landfill Cover Pellets by LSC Environmental Products, LLC; Green dyed cellulose fiber from shredded wastepaper and corn fiber and Sodium Montmorillonite.
3. The ADC material will be applied to the working face using a Finn T90 (900-gallon capacity) or smaller equipment and must be prepared as recommended by the manufacturer to achieve an overall thickness of not less than 0.125 inches over the exposed waste.
4. Storm water runoff from areas that have been covered with VERDac Landfill Cover Pellets shall be controlled and managed as contaminated water.
5. The use of ADC material 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.
6. If after this 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 original request dated July 2, 2021, and the extension request dated January 24, 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: February 18, 2022



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: Pinehill Landfill
Permittee or Registrant Name: Pine Hill Farms Landfill TX, LP
MSW Authorization Number: 1327B
Initial Submission Date: 08/2022
Revision Date: _____

Instructions for completing this form are provided in [form TCEQ-20650-instr¹](#). 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>582EA000503104</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.ftwweaverboos.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: Ryne Spicer, P.E.

Title: Project Director

Email Address: rspicer@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: Pinehill Landfill

Contact Name: Bill Bybel Title: Operations Manager

MSW Authorization Number (if existing): 1327B

Regulated Entity Reference Number: **RN** 101909737

Physical or Street Address: 1102 Landfill Road, Hwy. 31 and I-20

City: Kilgore County: Gregg State: TX Zip Code: 75663

Phone Number: 903-984-3922

Latitude (Degrees, Minutes Seconds): 32° 27' 00"

Longitude (Degrees, Minutes Seconds): -94° 49' 48"

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 add the use of VERDac Landfill Cover Pellets Alternative Daily Cover (ADC) at the site on a permanent basis in accordance with 30 TAC §305.70(k)(1).

11. Facility Contact Information

Site Operator (Permittee or Registrant)

Name: Pine Hill Farms Landfill TX, LP
Customer Reference Number: **CN** 600129530
Contact Name: Austin Sparks Title: Environmental Manager
Mailing Address: 12920 FM 2767
City: Tyler County: Smith State: TX Zip Code: 75708
Phone Number: 903-539-7986
Email Address: asparks3@republicservices.com
Texas Secretary of State (SOS) Filing Number: 0010372711

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: Ryne Spicer, P.E.
Texas Board of Professional Engineers Firm Registration Number: F-3727
Contact Name: Ryne Spicer, P.E. 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: rspicer@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: _____

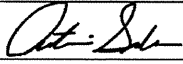
Signature Page

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: Austin Sparks Title: Environmental Manager

Email Address: asparks3@republicservices.com

Signature:  Date: 08/23/2022

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 Austin Sparks

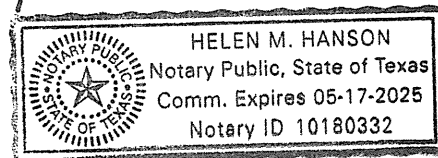
On this 23rd day of August, 2022

My commission expires on the 17th day of May, 2025



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	5
Landowners List	5
Marked (Redline/Strikeout) Pages	1
Unmarked Revised Pages	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 LANDOWNERS LIST AND MAP

ADJACENT PROPERTY OWNER LIST AND MAP

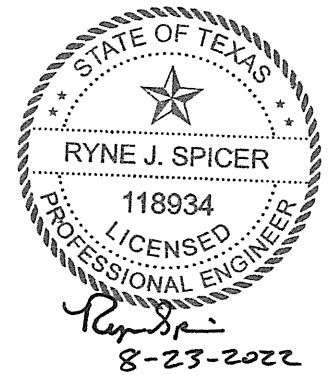
The following list in Table 5-1 and map on Figure 5-1 provide the names, mailing addresses, and location of the “Adjacent and Potentially Affected Property Owners” within 0.25 miles of the site. Refer to Figure 5-1, Adjacent Property Owner Map, for location of the properties. The numbering on the property owner list in Table 5-1 corresponds to the numbers listed on Figure 5-1. The list is based on records of the Gregg County Appraisal District, posted on the Gregg County Appraisal District website <https://gcad.org/interactive.map/>.

In accordance with Title 30 Texas Administrative Code §330.59(c)(3), the availability of mineral ownership beneath the facility has been investigated. The real property appraisal records do not show any mineral rights owners.

TABLE 5-1 PROPERTY OWNER LIST

- | | |
|---|---|
| <p>1. FOUR-S OIL CO INC
PROPERTY TAX DEPARTMENT
PO BOX 29246
PHOENIX AZ 85038</p> | <p>11. FUNDERBURK REAL ESTATE PROPERTIES LLC
827 FISHER RD
LONGVIEW TX 75604</p> |
| <p>2. KG FAMILY PTNSP LTD
PO BOX 250</p> | <p>12. EASTEX CRUDE COMPANY
10907 ST HWY 11 W
LEESBURG TX 75451</p> |
| <p>3. EAST TEXAS SALT WATER DISPOSAL CO
1209 INDUSTRIAL BLVD
KILGORE TX 75662</p> | <p>13. WOOLEY CAROL ETAL
4113 FM 2208 S
LONGVIEW TX 75605</p> |
| <p>4. FOUR-S OIL CO INC
PO BOX 1627
HENDERSON TX 75653</p> | <p>14. F3 PROPERTY INVESTMENTS LLC – SERIES 3
115 COMMUNITY BLVD
LONGVIEW TX 75605</p> |
| <p>5. FOUR-S OIL CO INC
PO BOX 1865
KILLGORE TX 75663</p> | |
| <p>6. R B D C LLC
PO BO 1998
KILGORE TX 75663</p> | |
| <p>7. P & J REAL ESTATE LLC
115 COMMUNITY BLVD
LONGVIEW TX 75605</p> | |
| <p>8. NFR EAST TEXAS BASIN LLC
1415 LOUISIANA ST
SUITE 1600
HOUSTON TX 77002</p> | |
| <p>9. CHAMPION TECHNOLOGIES INC
ATTN TAX DEPT
M77 SOUTH STADIUM DR
SUGARLAND TX 77478</p> | |
| <p>10. BROGOITTI INVESTMENTS INC
PO BOX 1998
KILGORE TX 75663</p> | |

P:\Houston\Solid Waste\Republic\Pinehill\VERDac ADC (01-2022)\Permit Mod\FIG 5-1-LANDOWNERS MAP new.dwg, Farrington, 1:2



LEGEND
 - - - - - PERMIT BOUNDARY
 ——— 1/4 MILE RADIUS
 (3) LANDOWNER DESIGNATION

NOTES:
 1. (3) REFERS TO LANDOWNERS LISTED ON ATTACHED LANDOWNER LIST.
 2. LANDOWNER LIST DEVELOPED FROM AUGUST 2022 GREGG COUNTY APPRAISAL DISTRICT RECORDS FOR THE PROPERTIES LOCATED WITHIN A QUARTER MILE RADIUS OF THE PERMIT BOUNDARY.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR INFORMATION PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION	PREPARED FOR	
	PINE HILL FARMS LANDFILL TX, LP	
DATE: 08/2022 FILE: 0120-77-11 CAD: FIG 5-1-LANDOWNERS MAP.DWG	DRAWN BY: SRF DESIGN BY: JBP REVIEWED BY: RJS	REVISIONS NO. DATE DESCRIPTION
Weaver Consultants Group TBPE REGISTRATION NO. F-3727		PINEHILL LANDFILL GREGG COUNTY, TEXAS

ADJACENT LANDOWNERS MAP
 PINEHILL LANDFILL
 GREGG COUNTY, TEXAS
 WWW.WCGRP.COM
 FIGURE 5-1