PART II LOCATION AND COORDINATION INFORMATION

A) SOURCES AND TYPE OF WASTE

EC Enterprises, LLC will construct and operate a wastewater treatment plant at the property in Elmendorf, Bexar County and this facility will include a conventional waste water treatment plant (Stage1 Nitrification). Most of the waste processed through the facility will come from external sources in trucks collected from San Antonio, Austin, Corpus Christi and Rio Grande Valley. The waste materials that will be received and processed at the facility are grease trap waste from restaurants and commercial/industrial food preparation/service facilities (55%), household and commercial septic waste (30%), Class II non-hazardous food waste (10%) and grit trap waste (5%). The percentages shown are those planned, the actual percentages may vary. In the future, a trailer and RV site are planned for the front portion of the property between the facility and FM 1303 with black and gray water from this being added to the facility.

There are no site specific conditions that require special design consideration or mitigations.

B) IMPACTS OF THE FACILITY

Prior to the property being purchased by EC Enterprises, LLC on August 5, 2020 it had previously been used for agricultural purposes. Between 1980 and 1990 various agricultural buildings had been constructed along with garages, coral, rodeo arena and administration building.

The site is well suited for the processing facility since it is away from any main residential areas and has good road access to the county road network. The local area is rural and primarily used for agricultural purposes. The owner of the land around the facility for 150 feet is the applicant.

There is a private water well on the property approximately 90 feet north east of the existing pole barn that will house the waste water treatment plant. The facility and its operations will not impact the water well. There are no oil or gas wells on the property. There are no public water wells within 500 feet of the facility, except the above noted well. There are no property easements.

C) FACILITY LAYOUT

Attached are the following contained in Exhibit 1:

RGSA-003 Plant Layout

RGSA-004 Plot Plan

Photographs of property showing view towards proposed location of the facility.

The Facility Owner/Operator shall maintain a minimum 50 feet buffer zone per TAC 330.543(b)(1).

D) PROPERTY BOUNDARY

Attached are the following contained in Exhibit 2:

Survey Abstract 19, C.B. 4009

Google Satellite Map showing property boundary and adjacent land

Google Satellite Map showing existing buildings from previous agricultural use (Water well noted)

E) FACILITY ACCESS CONTROL

Public access will be controlled to minimize unauthorized vehicular traffic, unauthorized and illegal dumping and public exposure to hazards associated with waste management. An attendant will be on site during operating hours. Site access is controlled by a minimum six foot high chain link fence and lockable vehicular gate at the entrance to the facility. The vehicular gate will be locked at all times when the site is closed and not attended.

F) TRAFFIC

The property is situated on FM1303 approximately 1.5 miles south west of the junction between Texas 1604 Loop and FM1303. The primary traffic route to access the facility is from Texas 1604 Loop along FM1303 for approximately 1.5 miles to the property entrance. The property entrance and facility access road are adequate and have ample turn in to accommodate large trucks. No modifications are necessary to the entrance or facility access road to accommodate the frequency and types of trucks visiting the facility on a daily basis.

As shown on the attached TXDOT 2016 San Antonio District Traffic Map (Exhibit 3) the highway count on FM1303 near the site is 1,951 vehicles per day. Between 10/12 vehicles per day are expected to be generated by the facility at the permitted operating capacity. Based on the noted TXDOT Traffic Map, all of the traffic generated by the facility during operations would constitute less than 0.7% of the traffic on FM1303. This traffic volume will be distributed throughout the day and will not cause any disruption of normal traffic patterns, as such, the facility's impact on FM1303 is insignificant.

Also contained in Exhibit 3 is correspondence with TXDOT requesting their input with regard to traffic volume, road conditions and traffic safety concerns.

G) GEOLOGY AND SOILS

The property is located in the south of Bexar County which is part of the South Texas Plains. See attached in Exhibit 4 a Geological Map of Bexar County produced by the US Department of the Interior Geological Survey. The soils on the property are sand on top of clay.

H) TOPOGRAPHY

In Exhibit 5 see attached Topographical Map produced by the US Army Corps of Engineers.

I) FLOODPLAIN

Although parts of the property are located within the FEMA 100 year floodplain, the location of the plant facility is in an area of minimal flood hazard and not within the 100 year floodplain. See attached FEMA National Flood Hazard Layer FIRMette in Exhibit 6.

J) WETLANDS

The facility is not located in or adjacent to any wetlands.

K) PREVAILING WIND DIRECTION

See attached Wind Rose in Exhibit 7.

L) ENDANGERED SPECIES

No endangered species nor habitat of same have been observed on the property.

M) COUNCIL OF GOVERNMENTS REVIEW

We have requested reviews of our MSW Application from the following government agencies (see Exhibit 9):

Bexar County

San Antonio River Authority

US Army Corps of Engineers (USACE)

US Fish and Wildlife Service - Region 2

We will advise the status of the reviews by the above agencies when we receive them.

N) REVIEW LETTER FROM TEXAS HISTORICAL COMMISSION

The proposed project is situated in an area with high probability for archeological sites. The Texas Historical Commission recommends this property undergo archeological investigation conducted by a qualified professional archeologist prior to the installation of the proposed facility (see Exhibit 10). We will advise the results of the archeological investigation when we receive them.

O GROWTH TRENDS WITHIN FIVE MILES OF THE FACILITY

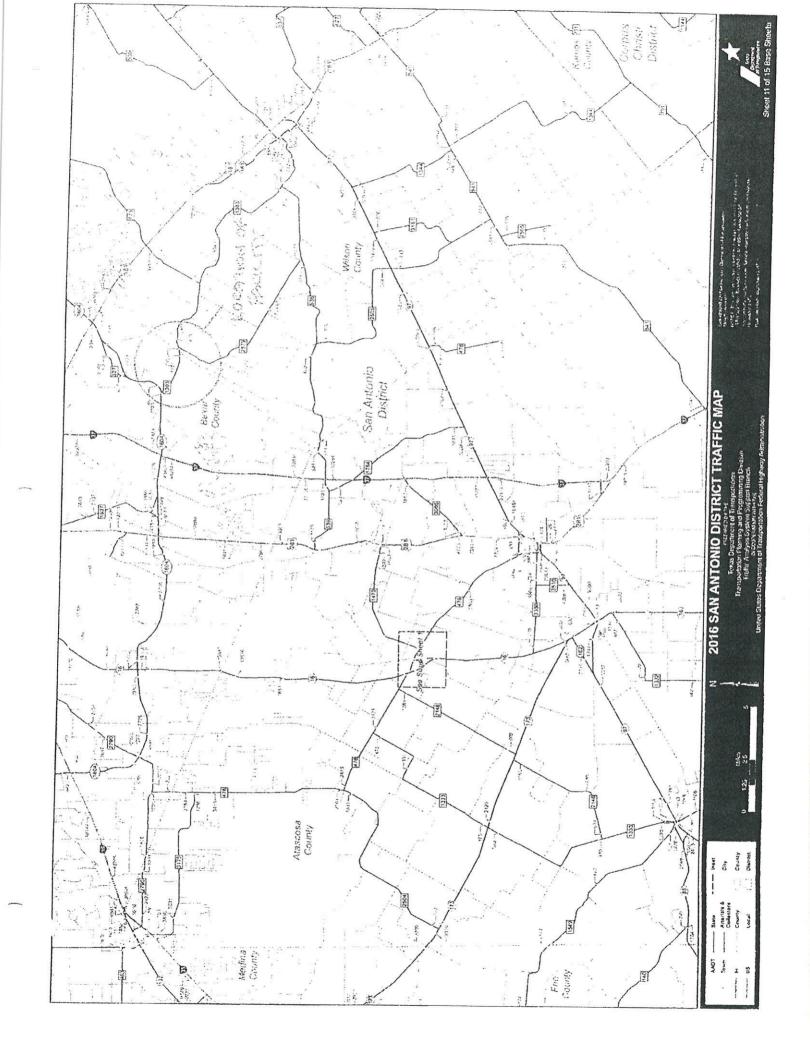
Please find attached in Exhibit 11 the HH estimates and growth projections within five miles of the proposed Facility. The area within five miles of the proposed Facility is largely rural and has only grown by 6% in the last five years. There are no large developments planned or projected within the foreseeable future.

PARTII

EXHIBIT 3

TXDOT 2016 SAN ANTONIO DISTRICT TRAFFIC MAP AND COORDINATION CORRESPONDENCE WITH TXDOT

Rev 1



Fwd: Assistance requested - FW: Clay Kennedy Dez Burton Feb 26, 2022 at 3:46:42 PM traffic planning

Get Outlook for Android

From: Bryan Heiner < Bryan. Heiner @txdot.gov>

Sent: Monday, February 14, 2022 5:04:57 PM

To: Clay Kennedy < ClayKennedy@msn.com>; Scott Nelson

<Scott.Nelson@txdot.gov>

Cc: Rebecca Fox <Rebecca.Fox@txdot.gov>; Janie Temple

Subject: RE: Assistance requested - FW: traffic planning

Clay,

driveway. I'll let Scott chime in if he has any concerns on his end driveway permit is not required if no changes are made to existing remaining based on the number of vehicles you provided for this use. On my end, I don't have any issues with the existing driveway D

Thanks,

Bryan Heiner, P.E.

Transportation Engineer

Texas Department of Transportation I SAT Maintenance 210.707.3696 phone I bryan.heiner@txdot.gov

From: Clay Kennedy < ClayKennedy@msn.com>

Sent: Monday, February 14, 2022 4:09 PM

To: Bryan Heiner <<u>Bryan.Heiner@txdot.gov</u>>; Scott Nelson

< Scott. Nelson@txdot.gov>

Cc: Rebecca Fox < Rebecca. Fox @txdot.gov>; Janie Temple

<<u> - Janie.Temple@txdot.gov></u>

Subject: RE: Assistance requested - FW: traffic planning

attachments unless you recognize the sender and know the content is safe

Hi Bryan.

has an existing driveway that functions well. Currently we do not plan on reconstructing the driveway. The property

I apologize for my ignorance. Do you still need all of this information? I am not well versed at this and

Thanks.

Clay

From: Bryan Heiner < Bryan. Heiner @txdot.gov>

Sent: Monday, February 14, 2022 3:44 PM

To: Clay Kennedy < ClayKennedy@msn.com>; Scott Nelson

<Scott.Nelson@txdot.gov>

Cc: Rebecca Fox < Rebecca. Fox @txdot.gov>; Janie Temple

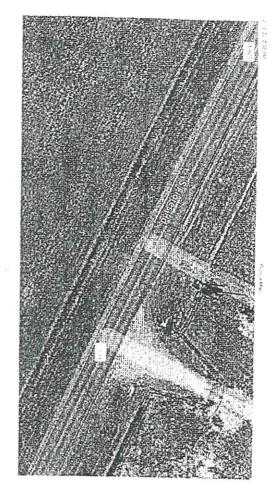
<<u>Janie.Temple@txdot.gov></u>

Subject: RE: Assistance requested - FW: traffic planning

Clay,

facility be reconstructing the existing driveway circled below? property marked on the overall aerial exhibit you sent, but will this driveway permit review and have listed them below. I didn't see the I want to go ahead and send you the documents I would need for the

- Signed 1058 form-Rev 8/20 (attached).
- Access Request Form (attached)
- Driveway Permit Checklist (attached)
- Plat or Survey showing property boundary
- Aerial exhibit showing driveway location
- infrastructure Drainage Impact Statement showing no negative impact to TxDot
- Plans showing driveway dimensions, materials and details



Thanks

Bryan Heiner, P.E.

Transportation Engineer

210.707.3696 phone I bryan.heiner@txdot.gov Texas Department of Transportation I SAT Maintenance

From: Clay Kennedy < ClayKennedy@msn.com>

Sent: Monday, February 14, 2022 3:13 PM

To: Scott Nelson < Scott. Nelson @txdot.gov>

Cc: Bryan Heiner < Bryan. Heiner @txdot.gov>; Rebecca Fox

<<u>Rebecca.Fox@txdot.gov</u>>; Janie Temple <<u>Janie.Temple@txdot.gov</u>>

Subject: RE: Assistance requested - FW: traffic planning

attachments unless you recognize the sender and know the content is safe. This email originated from outside of the organization. Do not click links or open

Scott,

Thanks for taking my call

mostly rural with agricultural and residential being the predominant land waste located at 21090 FM 1303 in Elmendorf Texas. This area is We are planning a waste water treatment facility to treat municipal

should not see more than 3 at a time. There is ample room on property entrance/exit to stage entering and exiting and there is no visual encumbrance at the the facility per day. The trucks usually arrive throughout the day and we day and we should have maximum of 5 employees traveling to and from Our facility should receive around 10-15 large trucks of waste water per

Spring Texas This information is based on experiences with our sister plant located in

your department before we get started. I have attached a plot plan and some aerial photos of the site. believe it will warrant any road changes, but we want to make sure with We don't

Thank you for your assistance with this!

Clay Kennedy 7138202777

From: Scott Nelson < Scott. Nelson@txdot.gov>

Sent: Monday, February 14, 2022 9:22 AM

To: ClayKennedy@msn.com

Cc: Bryan Heiner < Bryan. Heiner@txdot.gov>; Rebecca Fox

<<u>Rebecca.Fox@txdot.gov</u>>; Janie Temple <<u>Janie.Temple@txdot.gov</u>>

Subject: FW: Assistance requested - FW: traffic planning

Mr. Kennedy,

generation, and the proposed access locations? are being discussed such as the land-use (site plan if available), the trip you provide us with some additional details on the improvements that typically handled by our team here at the San Antonio District. I received the email below from Janie Temple. These requests are

Scott Neison, P.E., PTOE

Advanced Plenning - Transportation Enginess

E. scott.nelson@txdot.gov

0.210.815.6673 हर । এ চন্ড 1656 । www.txdot.gov । Texas Highways Magazine । Get Involved



From: Clay Kennedy < ClayKennedy@msn.com>

Sent: Friday, February 11, 2022 4:52 PM

To: Janie Temple < Janie. Temple @txdot.gov>

Subject: traffic planning

the content is safe. links or open attachments unless you recognize the sender and know This email originated from outside of the organization. Do not click

Janie

safety or road modifications for our facility? in to accommodate large trucks. Do you have any input on traffic and we feel it should not be a nuisance. Our site has ample turn of the daily traffic flow. The trucks would flow throughout the day trucks entering and leaving our facility per day, or around 0.7% count on FM 1303 is 1951 vehicles per day. We anticipate 10-15 straight stretch of road. TXDOT data shows that the highway 21090 FM 1303 in Elmendorf Texas and it is located on a We are permitting a MSW plant with the TCEQ. The address is

Please advise.

Clay Kennedy

Sent from Mail for Windows

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PART III APPENDICES

APPENDIX 1 Secondary Containment Calculations for Tankage Area

26 February 2022

Page TOC-III-1

March 101202

GEORGE H NEILL & ASSOC., INC. (TBPE FIRM REGN. No. 2566) P.O. BOX 811 ATHENS, TEXAS 75751 GEORGE A

OENS SO

Rev 3

PART III DESIGN INFORMATION

A) FACILITY LAYOUT

Attached are the following drawings:

GEORGE H NEILL & ASSOC., INC. (TBPE REGN. Firm No. 2566) P.O. BOX 811 ATHENS, TEXAS 75751

RGSA-003 Plant Layout

RGSA-004 Plot Plan

RGSA-002 Dump Station Apron Layout

B) FACILITY DESIGN

drew lo, zon

TOENS CO

B.1 Facility Access Control

gate will be locked at all times when the site is closed and not attended. high chain link fence and lockable vehicular gate at the entrance to the facility. The vehicular attendant will be on site during operating hours. Site access is controlled by a minimum six foot illegal dumping and public exposure to hazards associated with waste Public access will be controlled to minimize unauthorized vehicular traffic, management. unauthorized and

B.2 Process Design and Flow

A process flow diagram for the facility is included entitled Process Flow Diagram RGSA-001.

B.3 Process Flow and Organic Loading Rates into SludgeNET pre-treatment

	Phase 1	Final Phase
Design Flow (MGD)	0.050	0.125
2-Hr Peak Flow (MGD)	0.200	0.500
Proposed Organic Loading	Phase 1	Phase 2 **
Influent BOD5 Concentration (mg/l)	700	750
Organic Loading based on (lbs/day)***	292	782
**		

^{**} Including RV Park and all other sources

B.4 Design Nitrification) Effluent Quality after Conventional Waste Water Treatment Plant

Total Phosphorous (mg/l)	Ammonia Nitrogen (mg/l)	Total Suspended Solids (mg/l)	Biochemical Oxygen Demand - 5 day (mg/l)
0	ω	15	10
	Total Phosphorous (mg/l) 0	Ammonia Nitrogen (mg/l) 3 Total Phosphorous (mg/l) 0	(mg/l)

Based on Industry standard data. Bench testing results available on request

B.5 Disinfection

1.0 mg/l Chlorine after 20 minutes detention time at peak flow

B.6 Influent

food waste and grit trap waste. preparation/service facilities, household and commercial septic waste, Class II non-hazardous The facility will receive grease trap waste from restaurants and commercial/industrial food

facility and FM 1303 with black and gray water from this being added to the facility. In the future, a trailer and RV site are planned for the front portion of the property between the

treatment plant will contain no more than 300 BOD. via a polymer injection and screen system. The influent water introduced into the waste water The influent water will be pre-treated in SludgeNet Trailers with a process that removes BOD's

B.7 Equipment

The following summarizes the equipment to be used in processing the waste:

- Reinforced Concrete Truck Dump Apron with pump on frame with hoist
- SludgeNet Trailers on concrete slab adjacent to Truck Dump Apron
- 3,500 gallon cone bottom Polyethylene Tank with grease trap
- 4 No. 16,800 gallon steel or fiberglass Pre-Treatment Tanks
- 2 No. Lift Stations
- 7,140 cubic feet Aeration Unit with 2 Each 2,500 cubic feet Digesters
- 12 ft. diameter Clarifier Unit with Chorine Contactor
- 2 No. 500 CFM Blowers
- Waste Dumpsters as required
- Various hoses and fixed piping/valves between equipment

B.8 Dewatering System Performance Data

SludgNET Trailer Specifics

Performance data of pumped gallons before drain off

Domestic Septic is 28,000 to 35,000 gallons

WWTP Wastewater Digester Sludge

3% solids	2% solids	11/2% solids
25,000 to 32,000 gallons per Load	32,000 to 40,000 gallons per Load	45,000 to 58,000 gallons per Load

5% solids	4% solids
22,000 to 25,000 gallons per Load	22,000 to 25,000 gallons per Load

Grease

Depending on solid content 20,000 to 32,000 gallons before drain off

Trailer Size

8'-6" x 40"

46 Cubic Yards

32 Cubic Yards Hauling Capacity

80,000 Max Weight Texas D.O.T.

B.9 Process

The processing of the wastes is as follows:

- Septic Trucks offload into the Dump Apron.
- 2 manifold. The Dump Apron contents are pumped into the SludgeNet Trailer via a polymer injection
- ω BOD's via a polymer injection and screen system. SludgeNet Trailer contents are filtered within the trailer with a process that removes
- 4 SludgeNet Trailer to fall out and be routed back to the Dump Apron. its conical bottom and a skimmimg valve allows any FOG and solids not captured in the Filtrate then goes through a Lift Station into the 3,500 gallon Poly Tank, which by way of
- 5 The supernatant from the 3,500 gallon Poly Tank then overflows into the Pre-Treatment Tanks where it is aerated.
- 6 Compartment of the conventional waste water treatment plant (Stage 1 Nitrification). Contents of the Pre-Treatment Tanks is then sent through Lift Station to the Aeration
- 7. digesters will be removed and placed into onsite dumpsters. Nitrification) has two digesters which will recycle supernatant. Periodic waste from the The Aeration Compartment of the conventional waste water treatment plant (Stage 1
- 8 on November 18, 2021. San Antonio River Basin, in accordance with TPDES Permit No. WQ0015939001 issued to an unnamed draw, thence to the Upper San Antonio River in Segment No.1911 of the Once a sufficient capture time has elapsed in the Aeration Compartment of the Clarifier Unit and then the Chlorine Contact Basin before the plant effluent is discharged conventional waste water treatment plant (Stage 1 Nitrification), the water will flow to the

unprocessed grease, grit and septic waste will be diverted in tankers to another TCEQ licensed grease, grit and septic waste will only be stored on site in tankers for a maximum of 72 hours. In amount of liquid waste stored in the facility at any one time will be 28,500 gallons. Unprocessed is equivalent to a 70,000 gallons per day average based on a 30 days per month. The maximum dump trucks owned by EC Enterprises, LLC and other licensed MSW haulage companies. This Approximately 2,100,000 gallons per month of liquid waste will be delivered to the facility by facility for processing. event that the facility experiences a significant work stoppage then deliveries of

facility that is permitted for handling such waste. the remaining sludge/cake will be transported for final disposal at a third party TCEQ registered When the filtrate water is separated in the SludgeNet units and contained for further processing,

registered facility that is permitted for handling such waste. dumpsters which will be transported periodically for final disposal at a third party TCEQ separated and stored on site for a maximum of two weeks (average one week) in covered Sludge/cake from trailer wash-outs, truck dump apron and equipment grease traps will be

permitted for handling such waste separated and transported for final disposal at a third party TCEQ registered facility that is Grit trap waste will be tracked through the process so that recovered grit trap solids can be

B.10 Sanitation and Water Pollution Control

Wash-down equipment and water connections will be provided for the process and unloading

Wash water will not be allowed to accumulate on site without proper treatment to prevent the building and will be inspected regularly and cleaned as required to minimize solids loading. creation of odors or an attraction to vectors. The septic dump station and dewatering area is constructed from concrete inside a metal clad

Wash waters used to clean the Dump Station, Tanks and tankers will be processed with waste

The Facility Design will comply with the requirements of 30 TAC 330.303 (a) and (b)

B.11 Odor Control

specifications for abatement of odors Control between unprocessed waste and air and by following good housekeeping practices. Odor will be controlled at the facility through stabilization of the waste and minimizing contact Misters will be provided as required pursuant to equipment manufacturer's

quantities of air and distributed across the site. liquids as the waste is transferred and processed, therefore odors will not be mixed with large enclosed tanks and equipment. Under these conditions airflow is limited over the surfaces of the Apart from the open dump station, wastes will be transferred in hoses and pipes and stored in

B.12 Spill Control

be processed in the same way as any other sludge on site. backhoe and any other equipment required will be made available. Any contaminated soils will The Operator will train all employees for response to any accidental sludge spill. A water tanker,

spillages. A concrete sump pit will be constructed in the Tankage area base in order that any berm will be constructed around the perimeter of the Tankage area for the containment of any constructed with a 6" crushed concrete base on top of a clay liner. A three feet high earthen pump (note: this will be pumped into the Dump Station and processed in the same way as any spillages and/or excess surface water can be pumped out using a portable gas powered trash The Tankage area containing the Cone Bottomed Tank and PreTreatment Tanks will be

Appendix 1 and take account of a 25 year rainfall event. other sludge on site. Secondary containment calculations for the Tankage area are contained in

B.13 Generalized Construction Details of Processing and Storage Tanks

Unit Name	Number	Capacity	Dimensions	Materials of
				Construction
PreTreatment	4	16,800 Gallons	12 ft Dia. X 20 ft	Steel or
Tanks		each	High	Fiberglass
Cone-Bottom	>	3,500 Gallons	8 ft Dia. X 10.42 ft	Polyethylene
Tank			High	

C) CLOSURE PLAN AND COST ESTIMATE

C.1 Public Notice and Certification of Final Facility Closure

provide public notice for final facility closure, in accordance with TAC 330.461(a). through a public notice in the newspapers of largest circulation in the vicinity of the facility, No later than 90 days prior the initiation of a final facility closure, the Owner/Operator shall,

executive director, in accordance with TAC 330.461(c)(2). closure has been completed in accordance with the approved closure plan will be sent to the Certification, signed by an independent licensed professional engineer, verifying that final facility

C.2 Closure Plan

- processed) to an authorized facility and disinfect all leachable handling units, tipping All equipment to be disassembled, decontaminated and hauled off to an authorized areas, processing areas and post-processing areas disposal site. All waste, waste residues and any recovered materials will be removed. The Owner/Operator shall evacuate all material on site (feedstock, in process and
- 2 Soils to be examined by a licensed soil professional and remediation steps taken if required.
- 3. Fencing to be checked and repaired if needed
- 4. Required signage installed.
- 5. Permanent drainage implemented.
- Thorough records to be kept; State and Local Authorities notified.

C.3 Closure Cost Estimate

with the Owner or Operator. The closure cost estimate will be updated periodically throughout the life of the facility to reflect any changes to the facility. The closure cost estimate shall be based on the costs of hiring a third party that is not affiliated

Dismantle equipment and haul off	\$80,000
Transport/Disposal of wastes	\$20,000
Soils Remediation (if required)	\$40,000
Fees to Soils Professional and RPE's if required	\$20,000
Administration (incl. Notices)	\$6,000
Contingency (10%)	\$16,600
Total Closure Estimated Cost:	\$182.600

GEORGE H NEILL & ASSOC., INC. (TBPE REGN. Firm No. 2566) P.O. BOX 811 ATHENS, TEXAS 75751





PART III

APPENDIX 1

GEORGE H NEILL & ASSOC., INC.
(TBPE REGN. No. 2566)
P.O. BOX 811
ATHENS, TEXAS 75751

SECONDARY CONTAINMENT CALCULATIONS FOR TANKAGE AREA

Jackson GEORGE HALLINGTONIAL ENGLISHED

Area of Tankage Base (made of 6" deep Crushed Rock) = 74FT x 16FT = 1,184 SQ FT

Volume of largest Storage Tank in Tankage Area = 16,800 gallons

Volume in Cubic Feet of largest Storage Tank = 16,800 ÷ 7.481 = 2,246 CU FT

Net Berm height required around base = 2,246 CU FT ÷ 1,184 SQ FT = 1.897 FT

Add 1.0 FT freeboard to berm height for 24 year, 24 hour rainfall event = 2.897 FT

Round up to berm height of 3.0 FT.



GEORGE H NEILL & ASSOC., INC. (TBPE REGN. No. 2566) P.O. BOX 811 ATHENS, TEXAS 75751

2020,0,2022

TABLE OF CONTENTS - OPERATING PLAN

PART IV OPERATING PLAN



Many 10's

GEORGE H NEILL & ASSOC., INC. (TBPE FIRM REGN. No. 2566) P.O. BOX 811 ATHENS, TEXAS 75751

SITE OPERATING PLAN

environment and prevent nuisances. consistent with the approved design and the TCEQ rules to protect human health, necessary as part of the Operating Record during the life of the facility operate the EC Enterprises, LLC Elmendorf Waste Water Processing Facility in a manner This Site Operating Plan contains general instructions for facility management and personnel to The Operating Plan will be retained and revised as the

A) Personnel

will be responsible for operating the facility in compliance with the permit and the applicable regulations. The Facility Owner/Manager will designate a person to act for him during his absence. Job descriptions for this facility are shown in the following table. The Facility Owner/Manager

Position	Training	Responsibilities
Facility Owner/Manager	Shall receive instruction in basic solid waste	The primary function is to hire, train and
	management practices and Texas MWS	employees to operate safely and in compliance at all times. Responsible for
	regulations. Must hold a	maintaining the equipment, tracking
	minimum Class C	inventories and maintaining permits and
	License.	licenses.
Facility Operator	Six months minimum	The primary functions are to receive
	experience in equipment	waste, conduct process operations and
	operations or on-the job	process waste. Other functions include
	training. Training to	securing trucks and trailers to prevent
	include recognition of	spills, performing routine maintenance
	facility prohibited wastes.	activities, cleaning any spills and work
		surfaces.

B) Equipment

The following summarizes the equipment used at the facility:

- Concrete Truck Dump Apron with pump on frame with hoist
- SludgeNet Trailers
- 3,500 gallon cone bottom Polyethylene Tank with grease trap
- 4 No. 16,800 gallon steel or fiberglass Pre-Treatment Tanks
- 2 No. Lift Stations
- 7,140 cubic feet Aeration Unit with 2 Each 2,500 cubic feet Digesters
- 12 ft. diameter Clarifier Unit with Chlorine Contactor
- 2 No. 500 CFM Blowers
- Waste Dumpsters as required

C) Inspections and Maintenance

retained in the operation records designee will perform the inspections. The inspection documentation and checklists will be table below contains the routine facility inspections. The Facility Owner/Manager 9

Item	Inspection Task	Frequency
Fence/Gates	Inspect perimeter fence and gates for	Weekly
	damage, make repairs as necessary.	
Facility Access	Inspect facility access road for damage	Daily
Road	from vehicle traffic, erosion or excessive	
	mud accumulation. Maintain and repair as	
	necessary.	
Facility Signs	Inspect all facility signs for damage,	Weekly
	general location and accuracy of posted	,
	information.	
Odors	Inspect the perimeter of the facility to	Daily
	assess the performance of the facility	
	operations to control odors.	
Containment	Inspect all concrete containment for cracks	Monthly
	and leaks. Repair as necessary.	

D) Waste Acceptance and Processing

other emergency situations, or other unforeseen circumstances that could result in the disruption of commission's regional offices may allow additional temporary operating hours to address disaster or waste management services in the area. special occasions, special purpose events, holidays, or other special occurrences. Also, the include alternative operating hours of up to five days in a calendar-year period to accommodate facility will operate 7 days per week. In addition, authorization from the executive director may accepted any time between the hours of 7.00 am and 7.00 pm Monday through Friday. The commercial septic waste, Class II non-hazardous food waste and grit trap waste. Waste will be from restaurants and commercial/industrial food preparation/service facilities, household and The waste materials that will be received and processed at the facility are grease trap waste

amount of liquid waste stored in the facility at any one time will be 28,500 gallons. is equivalent to a 70,000 gallons per day average based on a 30 days per month. The maximum dump trucks owned by EC Enterprises, LLC and other licensed MSW haulage companies. This Approximately 2,100,000 gallons per month of liquid waste will be delivered to the facility by

dumping. The owner or operator is not required to accept any solid waste that he/she determines will unloading of waste in unauthorized areas is prohibited. The owner or operator shall ensure that any cause or may cause problems in maintaining full and continuous compliance with TAC 330.225. The fences, or other means, shall be used in conjunction with signs for the prevention of indiscriminate indicate where vehicles are to unload. The use of forced access lanes, identified by ditches, dikes solid waste shall be confined to as small an area as practical. Appropriate signs shall also be used to unauthorized or prohibited material before being offloaded and processed. Each incoming load will be manifested and visually screened by trained employees for The unloading of

generator of the waste or operator shall ensure that any prohibited waste will be returned immediately to the transporter or unloading of prohibited wastes at the municipal solid waste facility shall not be allowed. The owner waste deposited in an unauthorized area will be removed immediately and disposed of properly. The

The sequence of operations for receipt and processing of the wastes is as follows

- 1. Septic Trucks offload into the Dump Apron.
- 2 The Dump Apron contents are pumped into the SludgeNet Trailer via a polymer injection manifold.
- SludgeNet Trailer contents are filtered within the trailer.
 Filtrate then goes through a Lift Station into the 3,500 g.
- be routed back to the septic Dump Apron. its conical bottom allows any solids not captured in the SludgeNet Trailer to fall out and Filtrate then goes through a Lift Station into the 3,500 gallon Poly Tank, which by way of
- 5 Tanks where it is aerated. The supernatant from the 3,500 gallon Poly Tank then overflows into the Pre-Treatment
- 0 Contents of the Pre-Treatment Tanks is then sent to the Aeration Unit through a Lift
- 7. the digesters will be removed and placed into onsite dumpsters The Aeration Unit has two digesters which will recycle supernatant. Periodic waste from
- 00 is discharged into the San Antonio River via a drainage ditch. Contents from the Aeration Unit are then sent to the Clarifier Unit, then the plant effluent

allowed to accumulate in quantities that create a nuisance, create odors or harbor vectors ensure that the design capacity of the facility shall not be exceeded. Waste will not be procedure will be implemented using visual checks and waste delivery scheduling to

another TCEQ licensed facility for processing. then deliveries of unprocessed grease, grit and septic waste will be diverted in tankers to maximum of 72 hours. In the event that the facility experiences a significant work stoppage Unprocessed grease, grit and septic waste will only be stored on site in tankers for a

permitting also requires periodic BOD effluent monitoring. BOD testing is required daily on underdrain from each of the batch processes. TPDES

methods. Records of each analysis shall be maintained for a three year period be done according to approved United States Environmental Protection Agency (EPA) to be made shall be part of the sampling and analysis plan. All sampling and analysis shall discharged to a trap, interceptor or treatment facility permitted under Texas Water Code, Chapter 26. At a minimum, the method of sampling, the frequency of sampling and the tests The Owner/Operator shall establish the method of sampling and analysis for the effluent

of at a municipal solid waste landfill must be analyzed annually for benzene, lead and TPH. oxygen demand, total suspended solids, benzene, TPH and lead. Sludges that are disposed petroleum hydrocarbons (TPH). Grit trap wastes must be analyzed annually for biochemical and pH. At a minimum, effluent from the facility must be analyzed annually for TPH, fats, oil, grease At a minimum, analyses for wastes received shall be made for benzene, lead and total

separated and stored on site for a maximum of two weeks (average one week) in covered Sludge/cake from trailer wash-outs, truck dump apron and equipment grease traps will be

registered facility that is permitted for handling such waste. dumpsters which will be transported periodically for final disposal at a third party TCEQ

with 330.331(b). One foot of freeboard for the 25 year, 24 hour rainfall event shall be tanks shall have a clay or synthetic liner and the liner shall be constructed in accordance shall be collected and contained until properly managed. Collection units other than storage 330.207 (relating to Contaminated Water Management). Contaminated water and leachate Wastewaters generated by the Facility shall be managed in accordance with

authorization. A connection shall be provided into the licensed wastewater treatment plant at Owner/Operator shall not discharge contaminated water without specific wastewaters resulting from managing the waste or from cleaning and washing. The send wastewater offsite to an authorized facility or shall provide for the treatment of manner that will not cause surface water or groundwater pollution. The Owner/Operator may All liquids resulting from the operation of solid waste facilities shall be disposed of in a

shall be constructed in accordance with TAC 330.331(b) (relating to Design Criteria). One foot of freeboard for the 25 year, 24 hour rainfall event shall be provided. Collection units other than storage tanks shall have a clay or synthetic liner and the liner Contaminated water and leachate shall be collected and contained until properly managed.

The use of leachate and gas condensate in any mining process is prohibited.

are prohibited at liquid waste transfer facilities. operations. Lagoons, open-top storage tanks, open vessels and underground storage units Code, Chapter 26 must not interfere with or pass through the treatment facility processes or septic system. Wastewaters discharged to a treatment facility permitted under Texas Water Grease trap waste, grit trap waste, septage and mobile liquid waste shall not discharge to a

discharge points do not require compliance with locally set limits. National Pollutant Discharge Elimination System, or the following liquid effluent limits, if the established by the treatment facility permitted under Texas Water Code, Chapter 26, the entering a public sewer system shall not exceed 200 milligrams per liter, the concentration The daily effluent design standard for oil and grease concentration leaving the facility and

precipitation from a 25 year, 24 hour storm. contain a worst case spill or release. Unenclosed containment areas shall also account for contaminated water from leaving the facility. The design shall be sufficient to control and Storage and processing areas shall be designed to control and contain spills and

E) Recordkeeping and Reporting

considered as part of the operating record for the facility. at all times. After completion of construction of the facilities, an as-built set of construction operating plan and any other required plan and documents will be maintained at the facility A copy of the permit, the approved copy of the permit application, specifications will be maintained at the facility. These documents will be the approved site

certification of closure: owner/operator in the facility's operating record during the life of the facility until after The following documents and records will be promptly recorded and retained on site by the

- Application related documents as described above per 330.219(a))
- duration when any alternative operating hours are utilized. The Owner/Operator shall record, in the site operating record, the dates, times, and
- 3. All location restriction demonstrations per 330.219(b)(1)
- 4 Inspection records and training procedures per 330.219(b)(2)
- 5 requirements per 330.219(b)(3) Closure plans and any monitoring, testing or analytical data relating to closure
- 9 assurance for closure per 330.219(b)(4) cost estimates and financial assurance documentation relating to financial
- 7 assistance per 330.219(b)(5) modifications to the permit, approvals and other matters pertaining to technical Copies of all correspondence and responses relating to the operation of the facility,
- 8 waste per 330.219(b)(6) All documents, manifests, shipping documents, trip tickets etc, involving special
- 9. Any other documents as specified by the approved permit or by the Executive Director per 330.219(b)(7)
- 10. Trip tickets (manifests) of wastes received (kept for five years) per 330.219(b)(8)
- 11. Alternative schedules for recordkeeping and notification requirements, may be set by the Executive Director per 330.219(g)

Trip tickets and manifests will be retained on site as required by 30 TAC 312.145

F) Report Signatures

person signing a report will make the following certification, as required by 305.44(b): will sign all reports and other information requested by the Executive Director and the The owner/operator or duly authorized representative as defined in 305.44(a) or 330.219(c)

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

signed by an authorized representative. new authorization satisfying the requirements of 330.219(c) must be submitted to the If an authorization is no longer accurate because of the change of individual or position, a Executive Director prior to, or together with, any reports, information or applications to be

G) Site Signage

are received. It will measure 4 feet by 4 feet with letters at least three inches in height A sign will be conspicuously displayed at all entrances to the facility through which wastes

information at all times. sign. The facility sign will be readable from the facility entrance and will contain up-to-date facility rules. A 24-hour emergency contact telephone number will also be included on the stating the facility name and type, hours and days of operation, authorization number and

H) Site Access and Control

vehicular gate will be locked at all times when the site is closed and not attended foot high chain link fence and lockable vehicular gate at the entrance to the facility. The attendant will be on site during operating hours. Site access is controlled by a minimum six illegal dumping and public exposure to hazards associated with waste Public access will be controlled to minimize unauthorized vehicular traffic, unauthorized and management. An

I) Sanitation and Periodic Cleaning

without proper treatment to prevent the creation of odors or an attraction to vectors. processed with waste materials. Wash waters will not be allowed to accumulate on site per week. Wash waters used to clean the Dump Station, Tanks and tankers will be working surfaces that come in contact with wastes will be washed down at least two times basis, as a minimum, at the completion of processing. During continual operations, exposed All working surfaces that come in contact with wastes shall be washed down on a weekly

J) Control of Windblown Material and Litter

all driveways, fences and other areas within the facility boundary will be inspected for litter unsafe and unsightly conditions. and other debris and if present, will be collected and managed to minimize unhealthy, effective at the site. However, at least once per day on days that the facility is in operation becoming windblown litter, so special litter control practices would not be suitable or Liquid waste unloading and processing do not involve materials that are susceptible to

K) Noise Pollution and Control

no significant noise pollution. together with the distance of the facility from FM1303 and adjacent properties, will provide The facility equipment, except tankage, S contained within steel clad buildings, which

L) Odor Control

adequately maintained. manufacturer's recommendations as necessary so that the equipment efficiency can be specifications for abatement of odors. The Misters will be cleaned and maintained per Odor Control Misters will be provided as required pursuant to equipment manufacturer's

M) Health and Safety

Owner/Manager will have a solid waste facility supervisor license Facility Owner/Manager to ensure the safety and training will be provided for all employees. All the activities will be supervised by the Prior to initiating operations, safety procedures will be developed and adapted for the facility of all persons on the site. The Facility

and safety procedures. them to perform their duties in a way that ensures the facility's compliance with all health Facility personnel must successfully complete a program of on-the-job training that teaches

familiarizing them with emergency procedures, emergency equipment and The training shall ensure that personnel are able to respond effectively to emergencies by emergency

N) Fire Control Plan

be reached by dialing 911. Mobile phones can be used in the event of landline phone system failure. Type ABC hand held fire extinguishers will be located near the process flammable liquids or electrical fires. building, tankage area and dump apron and will be readily available for use on trash, well on site, which is adjacent to the facility. In an emergency, the local Fire Department can comply with local fire codes. A limited supply of water for firefighting is available from the familiarize them with the process and systems. The facility and its Fire Protection Plan will at the facility will be available to guide emergency personnel through the facility to help The local Fire Department will be informed of the location and processes at the facility. Staff

or equipment fire. extinguisher use, communications and responses in the event of a grease, grass, structural All facility personnel will be trained in the contents of the Fire Protection Plan, fire

used on a grease fire, a type ABC fire extinguisher should be used. processing, generation of heat or flammable vapors is not significant. Water should never be The liquid waste has sufficient water content to prevent an ignition hazard. During water

hazards include the following: Measures and precautions to be followed at the facility to minimize the possibility of fire

- of any trash, boxes and rags (ie. good housekeeping) Clean up any grease, oil and chemical spills immediately and keep work areas free
- Electrical cords should not be strung across floors or walkways where they can be stepped on and frayed, exposing the facility to the possibility of electrical fire

- started and thoroughly inspected before the power is turned back on All machinery/equipment should be de-energized before any maintenance work is
- flammable materials. Caution should be used when using tools that cause friction or sparks near

Procedure by Facility Staff in the Event of a Fire:

- Contact the Local Fire Department by calling 911.
- Alert other facility personnel.
- extinguishing the fire. Assess extent of the fire, possibilities for the fire to spread and alternatives for
- until arrival of the Local Fire Department, attempt to contain or extinguish the fire. If it appears that the fire can be safely fought with available firefighting equipment
- available onsite. may be needed. Be familiar with the use and limitations of firefighting equipment It is not advisable to attempt to fight the fire alone. Personal protective equipment
- Upon arrival of the Local Fire Department personnel, direct them to the fire and provide assistance as appropriate

O) Employee Sanitation Facilities

A rest room with a sink, toilet and potable water is provided for the use of all employees and

