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Application for Permit to Store or Process Industrial Nonhazardous Solid Waste

I. General Information

A. Applicant Information

Name of Applicant: Fort Bend Regional Landfill , LP (individual, Corporation or Other Legal Entity Name – must match the Secretary of State's database records)
Previous or former names of the facility, if applicable: <u>Long Point Landfill</u>
Address:14115 Davis Estates Road
City: <u>Needville</u> State: <u>Texas</u> Zip Code: <u>77461</u>
Telephone Number:979-793-4430
Street Address (if available):14115 Davis Estates Road
TCEQ Registration No.: <u>96322</u> EPA I.D. No.: <u>TXRoooo84600</u>
Permit NoCounty:Fort Bend
Regulated Entity Name: Fort Bend Regional Landfill, LP
Regulated Entity Reference Number:
Customer Name: <u>Fort Bend Regional Landfill, LP</u>
Customer Number: CN602656373

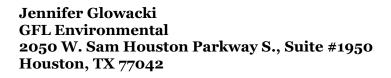
If the application is submitted on behalf of a corporation, please identify the Charter Number as recorded with the Office of Secretary of State for Texas.

<u>0800328149</u> (Charter Number)

B. Facility Contact Information

1. List those persons or firms, to include a complete mailing address and telephone number, authorized to act for the applicant during the processing of the permit application.

Marcos Elizondo GFL Environmental 2050 W. Sam Houston Parkway S., Suite #1950 Houston, TX 77042 713-292-2417



2. If the application is submitted by a corporation or by a person residing out of state, the applicant must designate an Agent in Service or Agent of Service and provide a complete mailing address for the agent. The agent must be a Texas resident.

Not Applicable

3. List the individual who will be responsible for causing notice to be published in the newspaper and his/her mailing address, telephone number and fax number. If e-mail is available, please provide an e-mail address.

Jennifer Glowacki GFL Environmental 2050 W. Sam Houston Parkway S., Suite #1950 Houston, TX 77042 346-482-8607

C. Application Location Information

For applications for new permits, renewals, major amendments and class 3 modifications, a copy of the application must be made available at a public place in the county where the facility is, or will be located for review and copying by the public (30 TAC Section 39.405(g)). Identify the public place in the county (e.g., public library, county court house, city hall), including the address, where the application will be made available to the public for review and copying.

Albert George Branch Library 9230 Gene Street Needville, Texas 77461 281-238-2850

- D. Type of Permit for Which Application is Submitted:
 - 1. Original <u>X</u> Permit Number ____96322_____ (Will be Assigned by the Commission)
 - 2. Amendment: Major _____ Minor _____
 - 3. Modification: Class 1 _____ Class 1¹ _____ Class 2 _____ Class 3 _____
 - 4. Renewal Permit: Yes _____ No __X___
 - 5. Provide a brief description of the portion of the facility covered by this application, including the changes for which an amendment or modification is requested.

The portion of the facility that is covered by this application includes the proposed pre-injection unit, which consists of the following components:

- A concrete secondary containment area with proposed tanks TK-1300, TK-1310, TK-1320, TK-1330, TK-1340, TK-1350, TK-1360, and TK-1370 and associated ancillary equipment.
- A separate concrete secondary containment area with proposed tank TK-1390 and associated ancillary equipment.
- A gravel truck unloading pad and associated ancillary equipment.

These Tanks will serve as the UIC waste management area, which will collect and treat liquid wastes prior to disposal via nonhazardous Class I UIC injection well.

Permit Section	Brief Description of Proposed Change	Modification or Amendment Type	Supporting Regulatory Citation
N/A	N/A	N/A	N/A

N/A = Not applicable; this is a new permit and not a modification or an amendment.

6. Does the application contain confidential material? Yes _____ No __X___

If yes, cross-reference the confidential material throughout the application to Section VIII: CONFIDENTIAL MATERIAL, and submit as a separate Section VIII document or binder conspicuously marked "CONFIDENTIAL".

E. List of Other Permits:

List any other permits, existing or pending, which pertain to pollution control activities conducted by this plant or at this location.

Indicate (by listing the permit number(s) in the right-hand column below) all existing or pending State and/or Federal permits or construction approvals which pertain to pollution control or industrial solid waste management activities conducted by your plant or at your location. Complete each blank by entering the permit number, or the date of application, or "none".

Gov	ernment Relevant Program and/or Law	Permit No.	Agency*
1.	Texas Solid Waste Disposal Act	MSW 2270	TCEQ
2.	Wastewater disposal under the Texas Water Code	None	None
3.	Underground injection under the Texas Water Code	WDW 488 WDW 489	TCEQ

Gov	ernment Relevant Program and/or Law	Permit No.	Agency*
4. Texas Clean Air Act		93892	TCEQ
		2696	
5.	Texas Uranium Surface Mining &	None	None
	Reclamation Act		
6.	Texas Surface Coal Mining & Reclamation	None	None
	Act		
	··· · · · · · ·		
7.	Hazardous Waste Management program	None	None
	under the Resource Conservation and		
	Recovery Act		
8.	UIC program under the Safe Drinking	WDW 488	TCEQ
	Water Act	WDW 489	
9.	TPDES program under the Clean Water	TXR05R702	TCEQ
-	Act	0,	C
10.	PSD program under the Clean Air Act	None	None
11.	Nonattainment program under the Clean	None	None
	Air Act		
12.	National Emission Standards for	None	None
12,	Hazardous Pollutants (NESHAP) Pre-	None	None
	construction approval under the Clean Air		
	Act		
13.	Ocean dumping permits under the Marine	None	None
0	Protection Research and Sanctuaries Act		
14.	Dredge or fill permits under section 404 of	None	None
	the Clean Water Act		
15.	Other relevant environmental permits	None	None

*Use the following acronyms for each agency as shown below:

TCEQ TRC	= Texas Commission on Environmental Quality = Texas Railroad Commission
DSHS	= Texas Department of State Health Services
TDA	= Texas Department of Agriculture
EPA	= U.S. Environmental Protection Agency
CORPS	= U.S. Army Corps of Engineers

F. Facility Information:

1. Name and address of operator or person in charge of facility (if different from the applicant): **Same as Applicant.**

	Name:		
	Address:		
	City:	Zip Code	Phone
2.	Name and address of Owner of	facility (if different from applicat	nt): Not applicable
	Name:		
	Address:		
	City:	Zip Code	Phone

3. If facility is not owned by the applicant, a copy of the lease for use of said facility must accompany this application. (Note: The lease must address the duration and the land usage.)

Not applicable

4. Provide a brief description of the facility (*i.e.*, the nature of the business) and the activities to be permitted. 30 TAC Sections 305.45(a)(4) and (a)(5)

Applicant owns and operates a commercial municipal solid waste landfill facility where nonhazardous municipal and industrial solid waste is stored, processed, and disposed. Leachate generated in the landfill and non-hazardous liquid wastes from off-site sources will be stored, processed, and disposed in the proposed permitted tanks and subsequently disposed via UIC-permitted deep injection wells.

5. Ownership Status

Private	e			<u> </u>
	(1)	Corporation		<u> </u>
	(2)	Partnership		
	(3)	Proprietorship		
	(4)	Non-profit		
Public				
	(1)	Federal		
	(2)	Military		
	(3)	Regional		
	(4)	Municipal		
- Industri	al Solid	Waste	5	

Other (specify)

If "Other", please specify _____

6. Are your waste management operations within the incorporated limits or extraterritorial jurisdiction of a municipality?

____No_____If so, what municipality? ______

7. Are your industrial solid waste processing or storage operations in an area in which the governing body of the county or municipality has prohibited the processing, storage or disposal of municipal hazardous waste or industrial solid waste. Yes_____ No__X___

If "yes", provide a copy of the ordinance or order.

- 8. Is the facility located on Indian lands? Yes _____ No __X___
- 9. Is the facility within the Coastal Management Program boundary? Yes _____ No_X___
- 10. Give a description of the facility location with respect to known or easily identifiable landmarks.

The facility is located approximately 40 miles southwest of the city of Houston in Needville, Fort Bend County, Texas. It is located 4.5 miles north of the intersection of TX-36 and Farm-to-Market (FM) 1994 Road on the corner of Davis Estate Road.

11. Coordinates of the Facility

______° _____3 '____46 ____" North Latitude _______° ____43 _____" West Longitude

12. Legal Description of Facility

Submit a legal description(s) of the tract or tracts of land upon which the waste management operations referred to in this permit application occur or will occur. Although a legal description is required, a metes and bounds description is not necessary for urban sites with appropriate "lot" description(s). A survey plat or facility plan drawing which shows the specific points referenced in the survey should also be included.

The permitted Tanks will be located within the UIC waste management area, which is located on the 2,660.268-acre tract comprising the entire property owned by Fort Bend Regional Landfill, as described by the metes and bounds survey provided in Attachment I.F.1. Attachment I.F.2 displays a 1,194.88-acre tract where the UIC waste management area is located that is located within the larger 2,660.268-acre area that is owned by the Fort Bend Regional Landfill.

13. Total acreage of the facility being permitted: The proposed UIC waste management area is approximately 4.96 acres and will include the truck unloading area, preinjection storage tanks, UIC well heads, ancillary equipment, and secondary

containment.

- 14. Identify the name of the drainage basin and segment where the facility is located: Brazos River, Segment 1202J (Big Creek)
- G. List of Other Sites:

Provide a list of sites owned, operated, or controlled by the applicant in the State of Texas. 30 TAC Section 305.50(a)(2)

See Attachment I.G.

H. Wastewater and Stormwater Disposition:

If there will be a discharge of either process water or storm water, describe the effluent route to the nearest identifiable watercourse.

Neither process water nor stormwater from the secondary containment areas will be discharged to nearby surface water.

1. Is the disposal of any waste to be accomplished by a waste disposal well at this facility?

Yes X No (WDW Permit No(s). WDW488, WDW 489)

2. Will any point source discharge of effluent or rainfall runoff occur as a result of the proposed activities?

Yes _____ No <u>X</u>____

- 3. If YES, is this discharge regulated by a TPDES or TCEQ permit?
 - Yes _____ Permit No._____(TCEQ) Permit No.____(TPDES)

No _____ Date TCEQ discharge permit application filed _____

Date TPDES discharge permit application filed_____

4. Is the facility subject to permitting requirements in 30 TAC Section 335.2(n) for commercial industrial solid waste facilities that receive industrial solid waste for discharge to a publicly owned treatment works? Yes _____ No _X___

If yes, please identify the publicly owned treatment works facility(ies) authorized to receive discharges from the facility.

I. Waste Management Units:

Please complete Table I. (Waste Management Unit List) for each waste management unit to be permitted.

See Table I. – Waste Management Unit List

J. Date of Operation:

What estimated date will waste management operations begin; or if operations have begun, what date did waste management operations begin at the site described by this application?

Waste management operations for the proposed UIC waste management area (i.e., proposed tanks) will begin upon TCEQ-approval of this permit application and the UIC permits for deep injection wells WDW-488 and WDW-489. Upon approval of both permits, construction of the tanks and associated secondary containment will begin. Estimated start of operation is 2025.

K. Application Map:

Submit an application map which extends at least one mile beyond the facility boundaries. The map shall be on a scale of not less than one inch equals one mile and shall include the following information: 30 TAC Section 305.45(a)(6)

- 1. The approximate boundaries of the tract of land on which the waste management activity is or will be conducted;
- 2. The location of the areas of storage or processing;
- 3. The general character of the areas adjacent to the waste facility including public roads, towns and the nature of development of adjacent lands such as residential, commercial, agricultural, recreational, undeveloped, etc.;
- 4. The boundaries of all affected tracts of land within a reasonable distance from the area of storage, processing, or disposal; and
- 5. Each well, spring, and surface water body or other water in the state within the map area.

See Attachment I.K.

L. Information Required to Provide Public Notice

State Officials List

Provide the name and mailing address for the State Senator and State Representative in the district in which the facility is or will be located. Either local district addresses or capitol addresses are acceptable. **This list should not be included in the Adjacent Landowners List required below.** [30 TAC 39.103(b)]

Joan Huffman Texas State Senator District 17 129 Circle Way, Suite 101 Lake Jackson, TX 77566 Gary Gates Texas State Representative District 28 P.O. Box 2910 Austin, TX 78768

Local Officials List

Provide the name and mailing address of the mayor and health authority of the municipality in whose territorial limits or extraterritorial jurisdiction the facility is or will be located. In addition, please provide the county judge and health authority of the county in which the facility is located. **This list should not be included in the Adjacent Landowners List required below.** [30 TAC 39.103(c)]

Chad Nesvadba Mayor 9022 Main Street P.O. Box 527 Needville, TX 77461

979-793-4253

Judge KP George Fort Bend County Judge 401 Jackson St. Richmond, TX 77469

281-341-8606

Dr. Letosha Gale-Lowe Fort Bend County Health and Human Services 4250 Reading Road, Suite A-100 Rosenberg, TX 77471

281-238-3233

Adjacent Landowners List

Submit a map indicating the boundaries of all adjacent parcels of land, and a list (see samples in the instructions) of the names and mailing addresses of all adjacent landowners and other nearby landowners who might consider themselves affected by the activities described by this application. Cross-reference this list to the map through the use of appropriate keying techniques. The map should be a USGS map, a city or county plat, or another map, sketch, or drawing with a scale adequate enough to show the cross-referenced affected landowners. **The list should be updated prior to any required public notice. It is the applicant's responsibility to ensure that the list is up-to-date for any required public notice.** For all applications (with the exception of Class 1 and Class 11 modifications) this mailing list should be submitted on:

1. a Compact Disk (CD) using software compatible with MS Word [30 TAC 39.5(b)]; or

2. four sets of printed labels.

If the adjacent landowners list is submitted on a compact disk (CD), please label the disk with the applicant's name and permit number. Within the file stored on the disk, type the permit number and applicant's name on the top line before typing the addresses. Names and addresses must be typed in the format indicated below. This format is required by the U.S. Postal Service for machine readability. Each letter in the name and address must be capitalized, contain no punctuation, and the appropriate two-character abbreviation must be used for the state. Each entity listed must be blocked and spaced consecutively as shown below. The list is to be 30 names, addresses, etc. (10 per column) per page (MS WORD Avery Standard 5160 – ADDRESS template).

Example:

Industrial Hazardous Waste Permit No. 50000, Texas Chemical Plant

TERRY M JENKINS RR 1 BOX 34 WACO TX 76710

MR AND MRS EDWARD PEABODY 1405 MONTAGUE LN WACO TX 76710-1234

A list submitted on compact disk (CD) should be the only item on that disk. Please do not submit a list on a disk that includes maps or other materials submitted with your application.

If you wish to provide the list on printed labels, please use sheets of labels that have 30 labels to a page (10 labels per column) (for example: Avery® Easy Peel® White Address Labels for Laser Printers 5160). Please provide four complete sets of labels of the adjacent landowners list.

The adjacent landowners list (and pre-printed mailing labels) and map are provided as Attachment I.L.1 and Attachment I.L.2, respectively.

Based on the questions in the Bilingual Notice Instructions for this form, are you required to make alternate (Bilingual) notice for this application?

<u>X</u>Yes <u>No</u> Bilingual Language(s): <u>Spanish</u>

M. Landowner List Information Source:

The names and mailing addresses of persons identified as affected parties, item L. above, were obtained from:

Fort Bend County Public Reference Map

(Source, City, County, School or Water District Records or Abstract Co.)

N. TCEQ Core Data Form

The TCEQ requires that a Core Data Form (Form 10400) be submitted on all incoming applications unless a Regulated Entity and Customer Reference Number has been issued by the TCEQ and no core data information has changed. For more information regarding the Core Data Form, call (512) 239-5175 or go to the TCEQ Web site at

http://www.tceq.texas.gov/permitting/central_registry/guidance.html

Please label any attachments with name of applicant.

The Core Data Form is provided as Attachment I.N.

O. Plain Language Summary

Complete the following form(s) as applicable, and submit with any industrial hazardous waste, or industrial solid waste, permit application that is subject to 30 Texas Administrative Code §39.405(k) [applications for a Class 3 permit modification, permit amendment, permit renewals, and for a new permit]. For more information regarding the Plain Language Summary forms, call (512) 239-5175, follow the links below, or go to the TCEQ Web site at

https://www.tceq.texas.gov/permitting/waste_permits/ihw_permits/i hw_permit_forms.html

Plan Language Summary Form - Instructions

Plain Language Form Summary - English

<u> Plain Language Form Summary - Spanish</u>

See Attachments I.O for English and Spanish Plain Language Forms

Signature Page

I, <u>Marcos Elizondo</u> , <u>Area Landfill Director</u> (Print or Type Name of Person Signing for Applicant) (Title)
I,
Signature: Date:
(Owner)

To be completed by the applicant when the above statement is signed by an agent for the applicant.

1,		hereby designate	as my agent
	(Print or Type Name)	(Print or Type Nam	

and hereby authorize said agent 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 Solid Waste Disposal Act permit. I further understand I am responsible for the contents of this application, for oral statement given by my agent in support of the application and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Printed or Typed Name of Applicant or Chief Executive Officer Signature (Note: Application Must Bear Signature & Seal of Notary Public)

Subscribe and Sworn to before me by the said th **Marcos Elizondo** on this day of My commission expires on the day of ANDREA ALLEN BARNES Notary Public, State of Texas Notary Public in and for Comm. Expires 12-06-2027 County, Texas Notary ID 132274625

TCEQ Application - Industrial Solid Waste INS-0024 (Revised 10/12/22 by SMF)

Fort Bend Regional Landfill, LP Industrial Non-Hazardous Solid Waste Permit

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FORT BEND REGIONAL LANDFILL, L.P.

GENERAL PARTNER'S CERTIFICATE

The undersigned, Melissa Bachhuber, does hereby certify that she is a duly elected, qualified and serving officer of WCA Texas Management General, Inc., a Delaware corporation ("the Corporation"). The undersigned further certifies that:

1. The Corporation is the sole general partner of Fort Bend Regional Landfill, L.P., a Texas limited partnership ("the Partnership").

2. Mr. Marcos Elizondo has been duly appointed and qualified as the Area Landfill Director, with management responsibility for facilities having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars).

3. In accordance with procedures of the Corporation, authority has been assigned or delegated to Mr. Elizondo to negotiate, enter into, sign and execute, in the name and on behalf of the Partnership and the Corporation, as sole general partner of the Partnership, any permit application, permit amendment or modification application, response to regulatory notices, operating plans for permitted facilities, regulatory and any other agreements, documents, instruments, and certificates relating to permitted facilities that he deems or believes to be advisable and in the best interests of the Partnership and the Corporation. Any of the foregoing authorized actions taken by Mr. Elizondo on behalf of the Partnership and/or the Corporation are authorized actions of the Partnership and the Corporation.

IN WITNESS WHEREOF, I have hereunto set my hand, this 14th day of December, 2022.

Meliza Backhuhn

Name: Melissa Bachhuber

Title: Assistant Secretary, WCA Texas Management General, Inc.

II. Facility Management

A. Security: Describe site access control, screening traffic control, and safety. 30 TAC Section 305.45(a)(8)(C)

The UIC waste management area will be located within the boundaries of the Fort Bend Regional Landfill, which implements site security measures to prevent inadvertent or unauthorized entry by persons or livestock to the facility. Site security is maintained by means of security fencing and access controls, as described below.

<u>Security Fencing</u>: The facility is surrounded by either a 6-foot high chain-link security fence or a barbed wire fence, with natural buffers (e.g., creek, thick brush, etc.). This fence minimizes the possibility for unauthorized entry of persons or livestock onto the active portion of the facility.

<u>Access Controls</u>: Access to the facility is controlled by means of security fencing and locked gates. Gated openings in the security fence control entry onto the active portion of the facility. With the exception of the main gate, gates are locked at all times. The main gate is unlocked only during operating hours. The gate for receiving trucks is unlocked and opens upon the receipt of trucks during operating hours, and other gates are locked unless specifically in use. Security cameras monitor the facility. During non-operating hours, the main office building has a security system that alarms when there is an unauthorized entry. Cameras, locked doors, and locked fence gates provide 24-hour security during non-operating hours.

<u>Communication</u>: On-site communications are conducted by telephones, two-way radios, and air horns. The air horns can be heard by personnel throughout the facility. Off-site communication is made via telephones. Facility personnel watch for and immediately report any unauthorized entry to facility management.

- B. Inspection and Maintenance:
 - 1. Complete Table II. for all of the waste management units to be permitted. Please note that inspection criteria should be provided for each component of each permitted unit (*e.g.*, tank system, tank, secondary containment area, ancillary equipment). 30 TAC Section 305.45(a)(8)(C)

See Table II.

2. Describe the inspection procedures for the units listed in Table II. 30 TAC Section 305.45(a)(8)(C)

Inspection procedures provide a mechanism to prevent and detect system malfunctions, equipment deterioration, operator errors, and discharges which may be causing, or may lead to, releases of nonhazardous waste constituents to the environment or create a threat to human health.

At a minimum, facility personnel, or other designated persons, will inspect units and equipment associated with waste management (i.e., secondary containment area, tanks, and ancillary equipment) at frequencies specified in Table II. Items for inspection and possible problems to evaluate during the inspections are also summarized in Table II.

If deficiencies are identified during the inspections (e.g., deterioration or malfunction of equipment or structures), the facility will document these problems on inspection forms, and will remedy as appropriate, to ensure that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action will be taken immediately. The inspection program is implemented by qualified individuals who have the training and authority to: (1) implement the required inspections, (2) perform necessary evaluations and hazard assessments, and (3) recommend appropriate corrective or remedial actions. The Facility Manager is fully responsible for implementation of the Inspection Program.

The facility operates Monday through Saturday, and is not open on Sundays or major holidays. Inspections will occur as indicated in Table II on days that the facility is open and operating. On Sundays and major holidays, no inspections will occur and the main gate will be locked.

C. Personnel: Describe the staffing pattern and qualifications of all key operating personnel. 30 TAC Section 305.50(a)(2)

The facility is committed to providing facility personnel with the required training to ensure safe and efficient operation. Facility personnel will complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with Class 1 industrial solid waste requirements. The program must be directed by a person trained in waste management procedures, and must include instruction that teaches facility personnel waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed. At a minimum, the training program must be designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, where applicable:

• Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;

- Communications or alarm systems;
- Response to fires or explosions;
- Response to ground-water contamination incidents; and
- Shutdown of operations.

Facility personnel must successfully complete the training program within six months after the date of their employment or assignment to the facility, or to a new position at the facility, whichever is later. Employees must not work in unsupervised positions until they have completed the training requirements described above. Facility personnel must take part in an annual review of the initial training. The owner or operator will maintain the following documents and records at the facility:

- The job title for each position at the facility related to waste management, and the name of the employee filling each job;
- A written job description for each position at the facility related to waste management.
- This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education, or other qualifications, and duties of employees assigned to each position;
- A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position at the facility related to waste management; and
- Records that document that the training or job experience required as described in this section has been given to, and completed by, facility personnel.

Training records on current personnel must be kept until closure of the facility and training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

D. Equipment: Describe the types of equipment and minimum number of each type to be provided by the site operator in order to conduct the operation in conformance with the design and operational standards. 30 TAC Section 305.45(a)(8)(A)

Engineering Reports documenting the design and operation of the nine tanks proposed in this application are provided in Attachments IV.G.1 and IV.G.2 to this application. Additional engineering information is also provided in Section IV of this application.

E. Record keeping: Describe the record keeping practices. 30 TAC Section 305.45(a)(8)(C)

Facility personnel, or other designated persons, who conduct the inspections will record the inspections in the inspection report forms. Completed inspection reports are submitted to the Facility Manager or their designee who then takes action, as necessary. Each inspection report will include the date and time of the inspection, a notation of the observations made, and the date and nature of any repairs or other remedial actions.

In cases where specialized outside contractors are appointed to perform testing or inspection services (e.g., ultrasonic wall thickness testing of tanks and fire extinguisher inspections), results of testing or inspection services are reported on the contractor's forms. These reports are made part of the operating records when received.

Completed reports and attachments are accumulated in the facility operating

records, which are retained at the facility for a minimum period of three years from the date of inspection.

F. Roads: Describe roads used for entry, exit and operations within the facility. 30 TAC Section 305.45(a)(8)(C)

A paved entrance road from Davis Estate Road to the scale house is present at the Fort Bend Regional Landfill facility, where the UIC waste management area will be located. All waste-hauling vehicles, operating personnel, and visitors use the paved entrance for entering the facility. An all-weather road will be installed and maintained to allow access to the injection wells and related facilities, including the secondary containment area where the proposed permitted tanks will be located (see Attachment II.F). This access road will be constructed from the scale house to the well pad and to the offloading area, which will be designed to bear fully laden permitted loads and all anticipated equipment required for well drilling and maintenance, with an additional safety factor. The paved entrance and access roads and the crushed stone surfaced internal roads will provide mud control for the waste hauling vehicles prior to exiting the site and returning to public access roads. The site entrance road, landfill haul road, and access roads will be maintained in a clean and safe condition. In addition, an alternate outbound/inbound road may also be constructed to allow more direct access to the UIC-area from Farm-to-Market (FM) 1994. When the alternate entrance is constructed a new gate, fencing, etc. will also be constructed to limit access to the area to authorized personnel only.

III. Waste Analysis Plan

A. Complete Table III.A. (Waste Management Information) for each waste, source, and volume of waste to be stored or processed in the facility units to be permitted. 30 TAC Section 305.45(a)(8)(C)

See Table III.A.

B. For inclusion into a permit, complete Table III.B. (Wastes Managed in Permitted Units) for each waste to be managed in a permitted unit. Guidelines for the Classification & Coding of Industrial Wastes and Hazardous Wastes, TCEQ publication RG-22, contains guidance for how to properly classify and code industrial waste in accordance with 30 TAC 335, Subchapter R. 30 TAC Section 305.45(a)(8)(C)

See Table III.B.

- 1. Applicants need not specify the complete 8-digit waste code formulas for their wastes but only the 3-digit form codes and 1-digit classification codes. This allows the applicant to specify major categories of wastes in an overall manner without having to list all the specific waste streams.
- 2. Are hazardous wastes defined in 30 TAC Section 335.1 managed or proposed to be managed in permitted units in accordance with 30 TAC Section 335.41(d)(8)?

Yes _____ No <u>X</u>____

- a. If yes, include the Environmental Protection Agency Waste Numbers as defined in 40 Code of Federal Regulations (CFR) Part 261 (e.g., D001, D002, D018, F039, etc.) for each hazardous waste to be managed in permitted units on Table III.B.
- b. If yes, provide documentation of compliance with 40 CFR Section 264.17(b) if management of hazardous wastes includes diluting hazardous ignitable (Doo1) wastes (other than the Doo1 High TOC Subcategory as defined in 40 CFR Section 268.40) or reactive (Doo3) waste to remove the characteristic before land disposal. 30 TAC Section 335.41(d)(8).
- C. For inclusion into a permit, complete Table III.C. for each waste listed in Table III.B. For each waste listed in the table, please include the sampling location, the sampling method, the sample frequency, the analytical parameters (*e.g.*, pH, density, viscosity), and the analytical method for each parameter. Please note that process knowledge may be used for difficult to sample and/or measure wastes or parameters. 30 TAC Section 305.45(a)(8)(C)

See Table III.C.

D. Submit a waste analysis plan which specifies procedures which will be used to inspect and if necessary, analyze each industrial solid waste received at the facility. The plan must describe methods which will be used to determine the identity of each waste managed at the facility. In addition, please specify methods for managing flammable and incompatible wastes. 30 TAC Section 305.45(a)(8)(C)

The Waste Analysis Plan is provided in Attachment III.D, which includes Appendices III.D.1, III.D.2, and III.D.3. Figure III.D.1 describes the waste profiling process for new waste streams.

IV. Engineering Report

The engineering report represents the conceptual basis for the storage or processing units at the industrial nonhazardous waste management facility. It should include calculations and other such engineering information as may be necessary to follow the logical development of the facility design. Plans and specifications are an integral part of the report. They should include construction procedures, materials specifications, dimensions, design capacities relative to the volume of wastes (as appropriate). Since these reports may be incorporated into any issued permit, the report should not include trade names, manufacturers, or vendors of specific materials, equipment, or services unless such information is critical to the technical adequacy of the material. Technical specifications and required performance standards are sufficient to conduct a technical review.

Submit a detailed engineering design report prepared and sealed by a professional engineer, with current license and designating the Registered Engineering Firm's name and Registration Number as required by the Texas Engineering Practice Act. Include in the report the following information shown below. 30 TAC Section 305.45(a)(8)

(Please note that in accordance with 30 TAC §305.50(a)(7), any engineering plans and specifications (*e.g.*, engineering drawings, engineering calculations) submitted as part of the permit application shall be sealed by a licensed professional engineer who is currently registered in the state of Texas).

A. Waste Management Unit Information: Complete Table IV. for each waste management unit to be permitted at the facility.

See Table IV.

B. Flow Diagram/Description

Submit a process flow diagram and step-by-step word descriptions of the process flow, depicting the handling, collection, storage, processing, and/or disposal of each waste listed in Table III.A.

The flow diagrams and/or descriptions should include the following information:

- 1. Originating point of each waste and waste classification code;
- 2. Means of conveyance utilized in every step of the process flow;
- 3. Name and function of each facility component through which the waste passes; and
- 4. The ultimate disposition of all wastes (if off-site, specify "off-site") and waste residues.

See Attachment IV.B.1 for a waste flow diagram and Attachment IV.B.2 for a piping and instrumentation diagram (P&ID) and layout of the tank area.

C. United States Geological Survey: Submit a 72-minute quadrangle map which shows the location of the facility and it uses a scale of not less than 1:24,000.

See Attachment IV.C for the topographic map.

D. Site Map: Submit a "site map" prepared by a registered surveyor. The map must show the approximate boundaries of the facility, denoting the areas where waste management activity is or will be conducted. The map shall also show (1) contours, using a contour interval of 5 feet if the slope is >5% and a contour interval of 2 feet if the slope is <5%, (2) plant facilities and other improvements such as fences, roads, pits, ponds, ditches, dikes, location of boreholes if applicable etc. The scale of this map should not be less than 1 inch = 200 feet.

The approximately 5-acre UIC waste management area, which includes the proposed permitted tanks and ancillary equipment, is located on a larger 2,660 acre property owned by Fort Bend Regional Landfill. The topographic map provided in Attachment IV.C demonstrates that the area where the UIC waste management area is located is relatively flat. In addition, maps prepared by a Professional Engineer registered in the State of Texas provide information on drainage features (see Attachment IV.D.1), including fences, roads, pits, ponds, ditches, dikes, and locations of monitoring wells. Attachment IV.C also shows major surface water features, including ponds to the south and Deer and Big Creek to the north. The UIC waste management area is located to the northeast of the commercial municipal solid waste landfill that is also located on the larger 2,660-acre property, and the UIC waste management area is relatively flat with minimal elevation changes. A wind rose is also provided (Attachment IV.D.2).

E. Aerial Photograph: For land-based storage or treatment units (such as surface impoundments and land treatment units) submit an aerial photograph approximately 9" x 9" with a scale within a range of 1" =1667' to 1" =3334' and showing the area within at least a one-mile radius of the site boundaries. The site boundaries and actual fill areas should be marked.

Not Applicable

Waste Management Units (30 TAC Section 305.45(a)(8)(A)):

F. Container Storage Areas

Not applicable, no container storage areas are proposed for this permit application.

- 1. Submit engineering plans and specifications which fully depict each container storage area (CSA) (*e.g.*, CSA, secondary containment system, ancillary equipment).
- 2. Provide an engineering description of each CSA. Please note that the engineering description should include a description of the materials of construction, run-on prevention, overflow prevention, and the container management practices for each CSA.
- G. Tank Systems

See Appendix IV.G.1 (Tanks TK-1300, TK-1310, TK-1320, TK-1330, TK-1340, TK-1350, TK-1360, and TK-1370) and Appendix IV.G.2 (Tank TK-1390) for the Engineering Reports for the proposed waste storage and processing tanks. An Engineering Report was not prepared for the leachate pre-injection tank (Tank TK-1380), as discussed

with TCEQ in the pre-application meeting, since this tank will only handle nonhazardous leachate recovered from the on-site landfill.

- 1. Submit engineering plans and specifications which fully depict each tank system (*e.g.*, tank, secondary containment system, ancillary equipment).
- 2. Submit piping and instrumentation drawings (P&IDs) of each tank system.
- 3. Provide an engineering description of each tank system. Please note that the engineering description should include a description of the materials of construction, external corrosion protection, spill prevention controls, and overfill prevention controls for each tank system.
- H. Containment Buildings

Not applicable, no container buildings are proposed for this permit application.

- 1. Submit engineering plans and specifications which fully depict each containment building.
- 2. Provide an engineering description of each containment building. Please note that the engineering description should include a description of the materials of construction and the waste management practices of each unit.
- I. Drip Pads

Not applicable, no drip pads are proposed for this permit application.

- 1. Submit engineering plans and specifications which fully depict each drip pad. If there is a liner(s) (soil and/or artificial), leachate collection system, and/or leak detection monitoring system associated with a drip pad, include engineering drawings of these components as well.
- 2. Provide an engineering description of each drip pad including a description of any liner, leak detection system, leachate collection system, run-off prevention controls, and/or runon control system that may be in place. Please note that the description should also describe the materials of construction for each component of each drip pad and the operating practices for each drip pad.
- J. Waste Piles

Not applicable, no waste piles are proposed for this permit application.

- 1. Submit engineering plans and specifications which fully depict any liner(s) (soil and/or artificial), leachate collection, and/or leak detection monitoring system associated with each waste pile.
- 2. Provide an engineering description of any liner, leak detection system, leachate collection system, run-off prevention controls, and/or run-on control system that may be in place for each waste pile. Please note that the description should describe the materials of construction for each component of a waste pile and the operating practices for each waste pile.

K. Incinerators

Not applicable, no incinerators are proposed for this permit application.

- 1. Submit engineering plans and specifications which fully depict each incinerator and any associated air pollution control equipment.
- 2. Submit Piping &Instrumentation Drawings (P&ID) for each incinerator and any associated air pollution control equipment (APCE).
- 3. Provide an engineering description of each incineration system. Each description should include the name and model number of the unit, the type of unit, a description of any APCE associated with the unit, the materials of construction for each component of the system, the types of auxiliary fuels used, the operating ranges of key parameters (e.g., combustion chamber temperature, waste feed rates, air pollution control equipment parameters), and the types of stack gas monitoring equipment used (if any).
- L. Miscellaneous Units

Not applicable, no miscellaneous units are proposed for this permit application.

- 1. Submit engineering plans and specifications which fully depict each miscellaneous unit. If there is a liner(s) (soil and/or artificial), leachate collection system, and/or leak detection monitoring system associated with a drip pad, please include engineering drawings of these components. If there is any APCE associated with a unit, please submit engineering drawings of that equipment as well.
- 2. Submit P&IDs for each miscellaneous unit, if applicable.
- 3. Provide an engineering description of each miscellaneous unit including a description of any APCE, liners, leak detection system, leachate collection system, run-off prevention controls, and/or run-on control system that may be associated with the unit. Please note that the description should also describe the materials of construction for each component of each miscellaneous unit and the operating practices for each unit.

M. Surface Impoundments

Not applicable, no surface impoundments are proposed for this permit application.

- 1. Submit engineering plans and specifications which fully depict each surface impoundment. The plans should include all significant features of the surface impoundment(s) and should indicate the 100-year flood zone. Cross-sectional drawing(s) detailing significant design features should be shown.
- 2. Describe liner specifications including type and thickness.
- 3. For in-place liners describe site preparation planned including scarification and compaction, and any other chemical or physical treatment to be effected.
- 4. For imported reworked soils, describe liner installation methodology including lift size, moisture content during compaction, compaction method, design density, and

determination of hydraulic conductivity.

- 5. For artificial liner materials provide pertinent specifications and a description of how liner/waste compatibility has been determined. Also describe installation method.
- 6. For all liners describe quality control measures to be followed during liner installation.
- 7. Provide an engineering description of any leak detection system, leachate collection, runoff prevention controls, and/or run-on control system that may be in place for each surface impoundment.
- N. Land Treatment Units

Not applicable, no land treatment units are proposed for this permit application.

- 1. Submit engineering plans and specifications which fully depict each land treatment unit. The plan should include all significant features of the land treatment unit and should indicate the 100-year flood zone.
- 2. Submit a performance evaluation plan describing how the degradation of waste constituents will be monitored. The plan should include the depth below ground surface of the treatment zone and management methods to be utilized within the treatment zone.
- 3. Describe necessary site preparation including soil importation, preparation, chemical amendments, etc.
- 4. Describe waste application method(s), including depth of incorporation and frequency of cultivation, equipment to be used, etc.
- 5. Submit an application rate table indicating the application rate of waste constituents to be applied to the treatment zone.
- 6. Provide an engineering description of any leachate collection, run-off prevention controls, and/or run-on control system that may be in place for each land treatment unit.

V. Geology Report (30 TAC 305.45(a)(8)(C)

(This section is applicable only to those facilities utilizing land-based storage or treatment facilities such as surface impoundments, land treatment units and waste piles.)

No land-based storage or treatment facilities are proposed for this permit application; therefore, the geology report is not required.

- A. Submit a Geology Report (prepared by a Texas licensed professional geoscientist) which describes the regional geology and hydrogeology in the vicinity of the solid waste management facility. The report should provide a discussion of stratigraphy, structural setting, topography, faulting, and land surface subsidence and any other active geologic processes in the vicinity of the facility. Include both geologic maps and cross-sections as necessary. The report should also identify regional aquifers and discuss the groundwater bearing and transmitting properties of subsurface units, and contain a water table contour or potentiometric surface map for the facility.
 - 1. Indicate the location of all water-producing wells within one mile of the facility. A United States Geological Survey map may be used to show the wells. Provide uses of the water in these wells (for example: domestic, livestock watering, industrial, agricultural, etc.)
 - 2. Provide an analysis of ground water at the waste management site.
- B. Submit a Subsurface Soils Investigative Report which is sufficiently detailed to establish the soil conditions in the vicinity of the waste management facility. The applicant should consult TCEQ technical guidelines to determine the recommended number of borings, location and depth of borings, and frequency of engineering classification tests. Such investigation should be conducted in accordance with recognized subsurface soils investigation practices. The report should at a minimum contain the following information:
 - 1. The logs of borings performed at the waste management area. All borings must be conducted in accordance with established field exploration methods. Investigation procedures should be discussed in the report. A sufficient number of borings should be performed to establish subsurface stratigraphy and to identify and allow assessment of potential pathways for pollution migration. Borings must be sufficiently deep to allow identification of the uppermost aquifer and underlying hydraulically interconnected aquifers. Boring logs should include a detailed description of materials encountered including any discontinuities such as fractures, fissures, slickensides, lenses or seams. The hollow stem auger boring method is recommended in those instances where an accurate determination of initial water levels is important. A key explaining both the symbols used on the boring logs and the classification terminology for soil type, consistency, and structure should be provided.
 - 2. Complete Table V. and provide in the report data which describes the geotechnical properties of the subsurface soil materials. All laboratory and field tests must be performed in accordance with recognized procedures. A brief discussion of test procedures should be included. All major strata encountered during the field investigation phase should be characterized with regard to: Unified Soil Classification, moisture content, percent less than number 200 sieve, Atterberg limits (liquid limit, plastic limit, and plasticity index), and coefficient of

permeability. Field permeability tests should be used to determine the coefficient of permeability of sand or silt units and should also be used to supplement laboratory tests for more clay-rich soils. In addition, particle size distribution and relative density based upon penetration resistance should be determined for coarse-grained soils. For fine-grained soils the following parameters should also be determined: cohesive shear strength based upon either penetrometer or unconfined compression tests, dry unit weight, and degree of saturation(s). For the major soil strata encountered, the maximum, minimum, and average for each of these variables should be compiled.

- 3. Coefficient of permeability in units of cm/sec should be determined for any inplace or constructed soil liners to be used to control waste migration. Separate values shall be determined with ground water from the site and waste or leachate from waste as test fluids. A description of testing methods is required.
- 4. For land treatment units, provide a description of the surficial soils at the site which includes:
 - (a) The name and description of the soil series at the site;
 - (b) Important physical properties of the series such as depth, permeability, available water capacity, soil pH, and erosion factors;
 - (c) Engineering properties and classifications such as USDA texture, Unified Soil Classification, size gradation, and Atterberg limits (liquid limit, plastic limit, and plasticity index); and
 - (d) The cation exchange capacity (CEC) of the soil(s) expressed in units of meq/100g.

Much of this information may be obtained by consulting the county soil survey published by the United States Department of Agriculture, Soil Conservation Service. If available, a copy of an aerial photograph showing soil series units on the land treatment area should be provided.

If an aerial photograph is not available, include a soil series map as an attachment to this subsurface soils investigation report.

VI. Ground and Surface Water Protection (30 TAC 305.45(a)(8)(C))

A. Submit a ground and surface water protection plan drawn to scale consisting of a sheet reflecting locations and typical sections of levees, dikes, liners, drainage channels, culverts, curbs, holding ponds, storm sewers, leachate collections systems and all other units relating to protection of the site from contact with ground and surface water. Adequacy of provisions for safe passage of any internal or adjacent external floodwaters should be reflected here. Cross-sections of levees should be shown tied into contours.

The facility already takes measures to protect groundwater and surface water, since a commercial municipal solid waste landfill (MSW 2270) is also operated on the larger 2,660-acre property. As shown on Attachment VI.A, the facility has groundwater monitoring wells in-place as part of the facility's routine groundwater sampling program associated with the landfill, and the landfill has a leachate collection system. Additionally, the facility manages stormwater in accordance with the entire facility's Texas Pollutant Discharge Elimination System (TPDES) Permit No. TXR05R702, which prevents impacted stormwater from leaving the site (see Attachment IV.D.1).

The proposed UIC waste management area for the UIC-permitted deep wells will consist of tanks and ancillary equipment that will all be contained within concrete secondary containment. Concrete secondary containment will provide protection of both groundwater and surface water from any potential releases. All leaks, drips, spills, and stormwater runoff shall be collected for processing for injection.

- B. Submit a subsurface monitoring plan including descriptions of the location, operation, construction and installation of each monitoring device, subsurface zone to be monitored, constituents to be analyzed, analytical method to be employed, frequency of sampling and how a release from the waste management unit will be determined. Include logs of borings performed.
 - 1. Groundwater Monitoring (This section may apply only to those facilities utilizing land-based storage or treatment facilities such as surface impoundments, land treatment units and waste piles.)

No land-based storage or treatment facilities are proposed for this permit application; therefore, groundwater monitoring is not applicable.

- (a) For inclusion into a permit, complete Table VI.A. for each unit to be monitored, to specify any proposed monitoring well system.
- (b) For inclusion into a permit, for each unit to be monitored, complete Table VI.B. to specify the following:
 - (1) the suite of waste specific parameters (indicator parameters, waste constituents, or reaction products) which will be analyzed at each sampling event for each well or group of wells. These parameters must provide a reliable indication of the presence of hazardous constituents in the ground water;

- (2) the sampling frequencies and calendar intervals (*e.g.*, monthly; quarterly within the second 30 days of each quarter; semiannually within the first 30 days of the 2nd and 4th quarters, etc.);
- (3) the analytical method and the achievable detection limit of the sample preparation and analysis methods for the selected parameters. This detection limit will represent the capability of the sampling and analysis to reliably and accurately determine the presence of the selected parameters in the sample; and
- (4) the concentration limit which will be the basis for determining whether a release has occurred from the waste management unit/area.
- 2. Unsaturated Zone Monitoring (This section may apply to facilities which contain land treatment units):

No land-based storage or treatment facilities are proposed for this permit application; therefore, unsaturated zone monitoring is not applicable.

- (a) List all hazardous constituents that have been or will be monitored.
 - (1) Current parameters
 - (2) Proposed parameters
- (b) Number of soil-pore liquid sampling points
 - (1) Depth of sampling points
 - (2) Equipment used for soil pore liquid monitoring
- (c) Number of soil core sampling points
 - (1) Depth of soil core sampling points
 - (2) Indicate on a facility map locations of all sampling points.
- C. Climate
 - 1. Describe regional climatic conditions

The UIC waste management area is located on the larger 2,660-acre Fort Bend Regional Landfill property, which is located in Fort Bend County, near Needville, Texas. The area is located 40 miles from the coast and has a humid subtropical climate. For Rosenberg, approximately 11 miles to the north, average temperatures in the summer months are around 85°F and average temperatures in the winter are around 55°F. Average daily highs in the summer are around 92°F and daily lows in the winter are around 45°F. Rosenberg receives an annual average precipitation of 45.7 inches, with most precipitation during the summer. Historically, the area has been

impacted by hurricanes along the Gulf Coast.

2. Indicate the magnitudes, in inches, of the following storm events.

(a)	100-yr./24-hr	<u>15.7 in</u>	
(b)	50-yr./24-hr	<u>13.1 in</u>	
(c)	25-yr./24-hr	<u>10.8 in</u>	

3. Indicate the average monthly and annual rainfall for the area.

The annual average rainfall is approximately 45.7 inches. Monthly average rainfall ranges from 3.0 inches in February to 4.3 inches in September.

4. Is the facility located within a 100-year flood zone?

No

5. Is the facility located within a coastal surge zone?

No

6. Indicate the average monthly and annual evaporation rate for the area.

According to the Texas A&M Agrilife Extension, Houston, which is the nearest measured location approximately 30 miles northeast of Needville, has an average evapotranspiration rate of 54.9 inches per year. For monthly evapotranspiration rates, the maximum and minimum are generally observed in June (6.57 inches) and December (2.35 inches), respectively.

D. Explain how rainfall runoff and any other wastewaters within the boundary of the facility are controlled to prevent pollution of ground and surface waters in the area during construction and operation of the units.

The facility manages stormwater in accordance with Stormwater Permit No. TXR05R702. Stormwater will be managed in accordance with the facility's stormwater permit during construction and operation of the unit. Wastewaters are only associated with operation of the on-site landfill, and all leachate from the landfill will be collected and conveyed to the Tank system for eventual disposal via the UIC-permitted deep injection wells.

E. Is it possible for surface waters originating outside the facility to enter said facility? Give explanation of answer.

In the event of a 100-year flood, waters originating from outside the facility will enter the facility, as a result of the proximity to Big Creek, located approximately 2300 feet to the north and northeast (see Attachment IV.C). However, flood maps from the Federal Emergency Management Agency (FEMA) indicate that only undeveloped portions of the facility's property would be impacted from surface waters originating from outside the facility (see Attachment VI.E). F. If an accidental discharge did occur, trace the route which the water would follow (for example: into an unnamed creek adjacent to the facility; thence into Red Creek; thence into the Trinity River).

Any accidental surface discharge would enter one of the unnamed intermittent streams exiting the facility; thence into Big Creek; thence into the Brazos River.

VII. Closure and Post-Closure Plans

The applicant must close the facility in a manner that minimizes need for further maintenance and controls, or eliminates, to the extent necessary to protect human health and the environment, the post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated rainfall, or waste decomposition products to the ground water, or surface waters, or to the atmosphere.

A. Closure

1. Complete Table VII.A. for each waste management unit to be permitted and list the possible methods of decontamination, and possible methods of disposal of wastes and waste residues, generated during unit closure. (30 TAC Section 335.8)

See Table VII.A.

2. Submit a closure plan for the facility which includes each permitted waste management unit. The closure plan should describe in detail the procedures (*e.g.*, disposition of wastes, decontamination procedures, procedures for soil sampling and analysis) to be followed and the materials and manpower to be used in accomplishing final closure of the waste management facility. If the facility contains land based units (*e.g.*, land treatment units), please ensure the closure plan includes information on such items as: type, volume and source of cover material; dismantling/demolition of structures and other improvements; ultimate disposition of liquid wastes; final grading/contouring of the facility; topsoil, seed, fertilizer and irrigation necessary to establish cover, where applicable; equipment and manpower (man hours) to accomplish closure. Please include a schedule or timetable for closure of the facility. (30 TAC Section 335.8)

See Attachment VII.A.

3. Complete Table VII.B. by providing an itemized closure cost estimate (*e.g.*, cost for any decontamination, costs for soil and/or rinsate sampling, cost for analyses) for each permitted waste management unit at the facility. (30 TAC Section 335.8). Closure cost estimates should be prepared on a "worst case" basis (cost of closure by a third party in the event of sudden or total abandonment of the management facility by the operator). The cost estimate must include the cost of closure at the point in the facilities operating life when the extent and manner of its operation would make closure the most expensive. Please consult TCEQ Technical Guideline No. 10, Closure and Post-Closure Cost Estimates, for details and assumptions in calculating closure costs.

See Table VII.B. Contractor quotes used to develop the closure cost estimate are provided in Attachment VII.B. Note that these quotes were obtained either for the proposed permitted tanks or for analogous tank projects located within the facility, with unit costs assumed to be representative.

4. Complete Table VII.C. by providing a closure cost estimate, in current dollars, for final closure of each permitted unit at the facility. Please refer to 30 TAC Chapter 37, Subchapter P, for the financial assurance requirements for closure and provide a signed statement from an authorized signatory per 30 TAC 305.44 regarding how the owner or operator will comply with this provision.

See Table VII.C

5. If the financial mechanism(s) has been obtained, please provide a copy of the mechanism(s) to the TCEQ.

A copy of the financial mechanism will be provided to the TCEQ executive director after the Tanks have been constructed and at least 60 days prior to acceptance of waste.

6. Submit a contingent closure plan for each permitted unit in the case where a release from the unit to the environment has occurred. (30 TAC Chapter 350)

See Attachment VII.A

B. Post-closure (This section may apply to land-based units such as surface impoundments and land treatment units). Provide a post-closure care plan that includes:

No land-based storage or treatment facilities are proposed for this permit application; therefore, post-closure is not applicable.

- 1. any maintenance or monitoring of waste containment systems;
- 2. any monitoring or reporting of groundwater monitoring systems;
- 3. any monitoring or reporting of unsaturated zone monitoring systems;
- 4. any security measures; and/or
- 5. a discussion of the future use of the land.

VIII. Confidential Material

Any information requested in the previous Sections I. through VII. of this application which is deemed confidential shall be provided in this section as a separate collective document and clearly labeled CONFIDENTIAL.

Not Applicable.



INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP

Needville, Texas

TABLES

- Table IWaste Management Unit List
- Table IIInspection Schedule
- Table III.A
 Waste Management Information
- Table III.B Wastes Managed In Permitted Units
- Table III.C Sampling and Analytical Methods
- Table IVWaste Management Unit Information
- Table V
 Waste Management Area Subsurface Conditions Not Applicable
- Table VI.A
 Unit Groundwater Detection Monitoring System Not Applicable
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- Table VII.A Unit Closure
- Table VII.B Unit Closure Cost Estimate
- Table VII.C
 Permitted Unit Closure Cost Summary

Waste Management Unit	TCEQ N.O.R. Unit #	Function(s) of Unit (storage/processing)	Design Capacity ¹
ТК-1300	001	storage	42,000 gallons
TK-1310	002	storage	42,000 gallons
TK-1320	003	storage	42,000 gallons
TK-1330	004	storage	42,000 gallons
TK-1340	005	storage	42,000 gallons
ТК-1350	006	storage	42,000 gallons
TK-1360	007	storage	42,000 gallons
TK-1370	008	storage	42,000 gallons
ТК-1390	009	storage	21,000 gallons

Table I. - Waste Management Unit List

¹Cubic yards, gallons, pounds, gallons/minute, pounds/hour, BTUs/hour, etc.

Table II. - Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
Tanks and Tank System TK-1300, TK-1310, TK-1320, TK-1330, TK-1340, TK-1350, TK-1360, TK-1370, and TK-1390	 Above-Ground Portions of Tank Exterior: Corrosion, leaks. Piping and Valves: Damage, leaks. Data Gathered from Visual Monitoring and/or Leak Detection Equipment: Standing liquid in the sump or secondary containment area. Tank Construction Materials and Area Immediately Surrounding Externally Accessible Portion of Tank System: Corrosion, signs of release. Integrity of Secondary Containment: Cracks, breaks, or signs of deterioration. 	Daily, on all days of facility operation
	• <i>Overfill Control Equipment:</i> Malfunction of high- level alarms, if present, for systems equipped with such alarms.	Annually
Containment Areas, Dike Walls, Berms	 Evidence of spills or release Cracks or gaps in coating Accumulated precipitation 	Daily, on all days of facility operation

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
Loading/Unloading Areas	 Evidence of spills or release Accumulated precipitation Integrity of containment system 	Daily, on all days of facility operation
Emergency Equipment Eyewash, safety showers, fire extinguishers, spill control equipment	 Low or no flow Blockage High pressure Missing pieces System inoperability 	Monthly
Security Fences, gates, warning signs	 Breach, damage, missing sections. Not operating properly. Deterioration, damage, missing, illegible writing. 	Monthly

Waste	Source	Volume (tons/year)
Leachate from GFL Facility	On-site	Up to 88,300,800 gal. in combination with the other on- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>
Leachate from other landfills	Various off-site sources	Up to 282,562,560 gal. in combination with the other off- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>
Wash water	Various off-site sources	Up to 282,562,560 gal. in combination with the other off- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>
Tank Washouts	Various off-site sources and on-site sources	Up to 282,562,560 gal. in combination with the other off- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>
Contaminated Stormwater from GFL Facility	On-site	Up to 88,300,800 gal. in combination with the other on- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>
Contaminated Stormwater	Various off-site sources	Up to 282,562,560 gal. in combination with the other off- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>
Other Aqueous Waste	Various off-site sources	Up to 282,562,560 gal. in combination with the other off- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>

Table III.A. - Waste Management Information

Waste	Source	Volume (tons/year)
Scrubber Water	Various off-site sources	Up to 282,562,560 gal. in combination with the other off- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>
Other inorganic Liquids	Various off-site sources	Up to 282,562,560 gal. in combination with the other off- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>
Nonhazardous Brine	Various off-site sources	Up to 282,562,560 gal. in combination with the other off- site waste stream. Note that on-site and off-site waste streams will not exceed <u>353,203,200 gallons.</u>

No.	Waste	Physical Form (e.g., solid, liquid, sludge)	TCEQ Waste Fo Codes and Classification Co	
1	Leachate from GFL Facility	Liquid	116	1, 2
2	Leachate from other landfills	Liquid	116	1,2
3	Wash water	Liquid	101-106, 109-110, 113-115, 119, 201, 203-205, 207, 219, 296	1, 2
4	Tank Washouts	Liquid	101-106, 109-110, 113-115, 119, 203- 205, 207, 209-210, 219, 296	1, 2
5	Contaminated Stormwater from GFL Facility	Liquid	113-114, 119, 203- 205, 207, 219, 296	1, 2
6	Contaminated Stormwater	Liquid	113-114, 119, 203- 205, 207, 219, 296	1, 2
7	Other Aqueous Waste	Liquid	119, 219	1, 2
8	Scrubber Water	Liquid	115	1, 2
9	Other inorganic Liquids	Liquid	119, 198	1, 2
10	Nonhazardous Brine	Liquid	113, 199	1, 2

Table III.B. - Wastes Managed In Permitted Units

Waste No.1	Sampling Location	Sampling Method	Frequency	Parameter	Test Method
Composite 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10	Before Injection Wellhead	Grab	Daily	рН	9040C or equivalent
Composite 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10	Before Injection Wellhead	Grab	Daily	Specific Gravity	ASTM D4052 or equivalent
Composite 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10	Before Injection Wellhead	Grab	Annually	Total Dissolved Solids, TDS	SM2540C or equivalent
Composite 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10	Before Injection Wellhead	Grab	Annually	Total Suspended Solids, TSS	SM2540D or equivalent
Composite 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10	Before Injection Wellhead	Grab	Annually	Waste Characterization Profile: Reactivity, Corrosivity, and Ignitability	EPA Methods 1110a, 9040c, 1010a, or equivalents
Composite 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10	Before Injection Wellhead	Grab	Annually	Applicable TCLP metals, Semivolatile organics, volatile organics	Per 40 CFR 261 Appendix III
Composite 1, 2, 3, 4, 5, 6, 7, 8, 9 and/or 10	Before Injection Wellhead	Grab	Annually	Viscosity	D445-04e2 or equivalent

Table III.C. Sampling and Analytical Methods

¹from first column of Table III.B.

Permit Unit No.	Waste Management Unit	TCEQ N.O.R. No.	Waste Nos.¹ Managed in Unit	Function(s) of Unit (storage/processing)	Rated Capacity of Unit
001	TK-1300	001	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	42,000 gallons
002	TK-1310	002	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	42,000 gallons
003	TK-1320	003	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	42,000 gallons
004	TK-1330	004	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	42,000 gallons
005	TK-1340	005	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	42,000 gallons
006	TK-1350	006	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	42,000 gallons
007	TK-1360	007	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	42,000 gallons
008	TK-1370	008	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	42,000 gallons
009	TK-1390	009	1, 2, 3, 4, 5, 6, 7, 8, 9, and/or 10	Storage	21,000 gallons

Table IV. - Waste Management Unit Information

¹from first column of Table III.B.

Table V. - Waste Management Area Subsurface Conditions

Not applicable, no land-based storage or treatment facilities are proposed for this permit application.

Boring Number	Depth Below Grade	Stratum	USC Symbol	Liquid Limit	Plasticity Index	Percent Passing #200 Sieve	Permeability	Percent Porosity

Maximum depth:

_____feet below grade

_____feet above MSL

Table VI.A. Unit Groundwater Detection Monitoring System

Not applicable, no land-based storage or treatment facilities are proposed for this permit application.

For each unit/area which requires groundwater monitoring, specify the number and type of wells which will comprise the groundwater monitoring system for the unit/area. Prepare additional tables as necessary.

Waste Management Unit/Area Name¹

Well Number(s)			
Hydrogeologic Unit Monitored			
Type (e.g.,. point of compliance, background, observation, etc.)			
Up or Down Gradient			
Casing Diameter and Material			
Screen Diameter and Material			
Screen Slot Size (in.)			
Top of Casing Elevation (ft, MSL)			
Grade or Surface Elevation (ft, MSL)			
Well Depth (ft,)			
Screen Interval, From(ft) To(ft)			
Facility Coordinates (e.g., lat/long or company coordinates)			

¹From Tables in Section V.

Table VI.B. - Groundwater Sample Analysis

Not applicable, no land-based storage or treatment facilities are proposed for this permit application.

For each well or group of wells, specify the suite of parameters for which groundwater samples will be analyzed.

Well No(s).

Parameter	Sampling Frequency	Analytical Method	Detection Limits	Concentration Limits ¹

¹ The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.

Table VII.A. - Unit Closure

For each unit to be permitted, list the facility components to be decontaminated, the possible methods of decontamination, and the possible methods of disposal of wastes and waste residues generated during unit closure:

Equipment of HWM Unit	Possible Methods of Decontamination ¹	Possible Methods of Disposal ¹
Tank TK-1300	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility
Tank TK-1310	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility
Tank TK-1320	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility
Tank TK-1330	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility
Tank TK-1340	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility
Tank TK-1350	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility
Tank TK-1360	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility
Tank TK-1370	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility
Tank TK-1390	Flush/detergent wash, steam cleaning, high pressure wash, or solvent wash	Deep well injection or off-site disposal at authorized facility

¹Applicants may list more than one appropriate method.

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (41,160 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$26,754
Removal and transport of remaining liquid waste in tank (Nine 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$16,200
Disposal of tank bottom sludge (2.5 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,680
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at \$4,100 per day ¹ + 2 days supplied air at \$5,600 per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (1650 sq. ft. [25% of 60 ft x 110 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$1,634
Disposal of rinsate from tanks and secondary containment (620 gallons [0.05 ft rinse water x 1,650 sq. ft. secondary containment] + 2,100 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,755
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [2,700 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	
Project Administration (5% of cost)	\$6,100
Total	\$127,800
Contingency (10% minimum)	\$12,800

Total Unit Closure Cost (rounded to the nearest 100) **\$140,600** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (41,160 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$26,754
Removal and transport of remaining liquid waste in tank (Nine 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$16,200
Disposal of tank bottom sludge (2.5 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,680
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at \$4,100 per day ¹ + 2 days supplied air at \$5,600 per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (1650 sq. ft. [25% of 60 ft x 110 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$1,634
Disposal of rinsate from tanks and secondary containment (620 gallons [0.05 ft rinse water x 1,650 sq. ft. secondary containment] + 2,100 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,755
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [2,700 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	
Project Administration (5% of cost)	\$6,100
Total	\$127,800
Contingency (10% minimum)	\$12,800

Total Unit Closure Cost (rounded to the nearest 100) **\$140,600** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Table VII.B. Unit Closure Cost Estimate for Tank TK-1320 Output Output

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (41,160 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$26,754
Removal and transport of remaining liquid waste in tank (Nine 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$16,200
Disposal of tank bottom sludge (2.5 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,680
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at \$4,100 per day ¹ + 2 days supplied air at \$5,600 per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (1650 sq. ft. [25% of 60 ft x 110 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$1,634
Disposal of rinsate from tanks and secondary containment (620 gallons [0.05 ft rinse water x 1,650 sq. ft. secondary containment] + 2,100 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,755
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [2,700 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	
Project Administration (5% of cost)	\$6,100
Total	\$127,800
Contingency (10% minimum)	\$12,800

Total Unit Closure Cost (rounded to the nearest 100) **\$140,600** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Table VII.B. Unit Closure Cost Estimate for Tank TK-1330 Output Output

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (41,160 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$26,754
Removal and transport of remaining liquid waste in tank (Nine 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$16,200
Disposal of tank bottom sludge (2.5 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,680
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at $4,100$ per day ¹ + 2 days supplied air at $5,600$ per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (1650 sq. ft. [25% of 60 ft x 110 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$1,634
Disposal of rinsate from tanks and secondary containment (620 gallons [0.05 ft rinse water x 1,650 sq. ft. secondary containment] + 2,100 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,755
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [2,700 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	
Project Administration (5% of cost)	\$6,100
Total	\$127,800
Contingency (10% minimum)	\$12,800

Total Unit Closure Cost (rounded to the nearest 100) **\$140,600** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (41,160 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$26,754
Removal and transport of remaining liquid waste in tank (Nine 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$16,200
Disposal of tank bottom sludge (2.5 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,680
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at $4,100$ per day ¹ + 2 days supplied air at $5,600$ per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (1650 sq. ft. [25% of 60 ft x 110 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$1,634
Disposal of rinsate from tanks and secondary containment (620 gallons [0.05 ft rinse water x 1,650 sq. ft. secondary containment] + 2,100 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,755
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [2,700 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	
Project Administration (5% of cost)	\$6,100
Total	\$127,800
Contingency (10% minimum)	\$12,800

Total Unit Closure Cost (rounded to the nearest 100) **\$140,600** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (41,160 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$26,754
Removal and transport of remaining liquid waste in tank (Nine 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$16,200
Disposal of tank bottom sludge (2.5 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,680
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at \$4,100 per day ¹ + 2 days supplied air at \$5,600 per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (1650 sq. ft. [25% of 60 ft x 110 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$1,634
Disposal of rinsate from tanks and secondary containment (620 gallons [0.05 ft rinse water x 1,650 sq. ft. secondary containment] + 2,100 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,755
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [2,700 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	
Project Administration (5% of cost)	\$6,100
Total	\$127,800
Contingency (10% minimum)	\$12,800

Total Unit Closure Cost (rounded to the nearest 100) **\$140,600** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (41,160 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$26,754
Removal and transport of remaining liquid waste in tank (Nine 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$16,200
Disposal of tank bottom sludge (2.5 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,680
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at $4,100$ per day ¹ + 2 days supplied air at $5,600$ per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (1650 sq. ft. [25% of 60 ft x 110 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$1,634
Disposal of rinsate from tanks and secondary containment (620 gallons [0.05 ft rinse water x 1,650 sq. ft. secondary containment] + 2,100 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,755
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [2,700 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	
Project Administration (5% of cost)	\$6,100
Total	\$127,800
Contingency (10% minimum)	\$12,800

Total Unit Closure Cost (rounded to the nearest 100) **\$140,600** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (41,160 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$26,754
Removal and transport of remaining liquid waste in tank (Nine 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$16,200
Disposal of tank bottom sludge (2.5 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,680
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at \$4,100 per day ¹ + 2 days supplied air at \$5,600 per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (1650 sq. ft. [25% of 60 ft x 110 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$1,634
Disposal of rinsate from tanks and secondary containment (620 gallons [0.05 ft rinse water x 1,650 sq. ft. secondary containment] + 2,100 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,755
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [2,700 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	· · -
Project Administration (5% of cost)	\$6,100
Total	\$127,800
Contingency (10% minimum)	\$12,800

Total Unit Closure Cost (rounded to the nearest 100) **\$140,600** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Task	Cost
Waste Transportation and Disposal	
Disposal of remaining liquid waste in tank (20,580 gallons [98% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$13,377
Removal and transport of remaining liquid waste in tank (Five 5,000-gal. loads [98% of permitted tank capacity] x \$1,800 transport cost per load ¹)	\$9,000
Disposal of tank bottom sludge (2.1 cubic yards [2% of permitted tank capacity or up to 500 gallons] x \$672 cost per cubic yard ²)	\$1,397
Removal and transport of tank bottom sludge (4 hours transport x \$135 transport cost per hour ²)	\$540
Decontamination of Tanks and Secondary Containment	
Contractor mobilization (lump sum ¹)	\$7,900
Contractor labor and equipment cost for decontamination (5 days equipment and labor at \$4,100 per day ¹ + 2 days supplied air at \$5,600 per day ¹)	\$31,700
Dismantling tank, demolition of containment, excavation and backfill (bulldozer for 1 week at \$3,179 ³ , excavator for 1 week at \$3,721 ³ , pad foot roller for 1 week at \$3,042 ³ , 2 cut off saws for 1 week at \$1,235 ³ , cutting wheels at \$704 ³ , 600 gallons fuel at \$3,510 ³)	\$15,390
Pressure wash of secondary containment (2400 sq. ft. [60 ft x 40 ft secondary containment area] x \$0.99 per sq. ft. ⁴)	\$2,376
Disposal of rinsate from tanks and secondary containment (900 gallons [0.05 ft rinse water x 2,400 sq. ft. secondary containment] + 1,000 gallons [5% of permitted tank capacity] x \$0.65 disposal cost per gallon ¹)	\$1,235
Transport of rinsate from tanks and secondary containment (One 5,000-gal. load [1,400 gallons rinsate] x \$1,800 transport cost per load ¹)	\$1,800
Loading and transport of tank remnants (4 x Heavy Trucking line item at \$5,200 ³ and dump truck for 1 week at \$5,850 ³)	\$11,050
Labor for rinsate sample collection (assume 8 hrs for 2 scientists ⁵)	\$2,000
PPE and sampling equipment disposal ⁵	\$280
Sample analytical costs (analysis for pH, RCRA metals, VOCs, SVOCs, and TPH, plus additional fees)	\$478
Closure Certification Report	
PE Closure Certification (lump sum)	\$2,500
Administration Costs	
Project Administration (5% of cost)	\$5,100
Total	\$106,200
Contingency (10% minimum)	\$10,600

Total Unit Closure Cost (rounded to the nearest 100) **\$116,800** (2023)

- 1. Based on quote from CIMA Services, LP, dated 6 November 2023.
- 2. Based on quote from IKON Environmental Solutions, LP dated 27 October 2023. Sludge disposal cost assumes \$112 per drum, and 6 drums per CY. Sludge transport cost assumes 4 hr for every 5 CY.
- 3. Based on quote from RL Doskocil, Inc. dated 5 October 2023. Assumes approximately equivalent equipment and material cost as two tanks in quote, for durations listed.

- 4. Based on cost estimate from RS Means data, 2023 Quarter 3, Wharton, Texas (Line Item 040120520300).
- 5. Internal engineering consultant costs based on similar projects.
- 6. Based on quote from Pace Analytical, dated 30 October 2023.

Table VII.C. - Permitted Unit Closure Cost Summary

Existing Unit Closure Cost Estimate – Not applicable

Unit		Cost
Total Existing Unit Closure Cost Estimate	\mathbf{n}/\mathbf{a} (0000) $\dot{\mathbf{a}}$	allana

Total Existing Unit Closure Cost Estimate n/a

n/a (2023) dollars

Proposed Unit Closure Cost Estimate

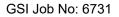
	Unit	Cost
Tank TK-1300		\$140,600
Tank TK-1310		\$140,600
Tank TK-1320		\$140,600
Tank TK-1330		\$140,600
Tank TK-1340		\$140,600
Tank TK-1350		\$140,600
Tank TK-1360		\$140,600
Tank TK-1370		\$140,600
Tank TK-1390		\$116,800
	Total Proposed Unit Closure Cost Estimate	\$1,241,600 (2023) dollars



INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

	ATTACHMENTS – SECTION I
Attachment I.F.1	Legal Description of Facility
Attachment I.F.2	Property Survey
Attachment I.G	List of Other Sites Owned by GFL
Attachment I.K	Application Map
Attachment I.L.1	Adjacent Landowner List
Attachment I.L.2	Adjacent Landowner Map
Attachment I.N	Core Data Form
Attachment I.O.1	English Plain Language Form
Attachment I.O.2	Spanish Plain Language Form





INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT I.F.1

Legal Description of Facility

2007093778 Electronically Recorded



Official Public Records

Fort Bend County Texas

2007 Jul 30 09:08 AM

Pages: 24 Fee: \$ 101.00

CORRECTION SPECIAL WARRANTY DEED

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

THE STATE OF TEXAS § \$ KNOW ALL MEN BY THESE PRESENTS: COUNTY OF FORT BEND §

THIS CORRECTION SPECIAL WARRANTY DEED (this "Deed") is executed by LONG POINT PARTNERS, LP, a Texas limited partnership ("Grantor"), to FORT BEND REGIONAL LANDFILL LP, a Texas limited partnership, having an address of One Riverway, Suite 1400, Houston, Texas 77056 ("Grantee").

This Deed is made in place of and as a deed of correction of a Special Warranty Deed dated February 24, 2004, executed by Grantor in favor of Waste Services of Texas, Inc., a Delaware corporation, to whom Grantee is a successor by merger, filed for record on February 25, 2004 under Instrument No. 2004021722, in the Official Public Records of Fort Bend County, Texas (herein referred to as the "Original Deed"), wherein by error or mistake an incorrect description of a tract of land containing approximately 2,644.73 acres (the "2,644 Acre Tract") was attached to the Original Deed in that the pages comprising the property description for the 2,644 Acre Tract were not in the proper order, and this Deed is made by Grantor and accepted by Grantee in order to correct said mistake or error. In all other respects, the Original Deed is hereby confirmed and ratified and shall remain in full force and effect. All references herein to "the date hereof" and similar phrases shall refer to the date of the Original Deed.

The Original Deed was supplemented by that certain Special Warranty Deed dated as of February 24, 2004, executed by Grantor in favor of Grantee, filed for record on July 31, 2006 under Instrument No. 2006092081, in the Official Public Records of Fort Bend County, Texas (herein referred to as the "Supplemental Deed"), which Supplemental Deed contains a description of the 2,644 Acre Tract for purposes of reference only, which description was also incorrect in that the pages comprising such property description were not in the proper order. By execution hereof, the parties hereby amend the Supplemental Deed by replacing the incorrect description of the 2,644 Acre Tract with the description attached hereto as **Exhibit A**. The Supplemental Deed also contains descriptions of two additional tracts of land comprised of approximately 34.73 acres and 1.38 acres, respectively, which descriptions are unaffected hereby, and except as expressly provided herein the Supplemental Deed is hereby confirmed and ratified and shall remain in full force and effect.

Grantor, for and in consideration of the sum of Ten Dollars (\$10.00) in hand paid to Grantor by Grantee, and other good and valuable consideration, the receipt and sufficiency of which consideration are hereby acknowledged, has GRANTED, SOLD and CONVEYED and by these presents does GRANT, SELL and CONVEY unto Grantee the real property described on

> FILED BY ALAMO TITLE COMPANY *GFFF40104*322-MTH

HOU:2710920.2

<u>Exhibit A</u> attached hereto and made a part hereof for all purposes, together with all improvements situated thereon (the 'Property').

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereto in anywise belonging, unto Grantee, its successors and assigns, forever, subject only to the matters described in **Exhibit B** attached hereto and made a part hereof for all purposes to the extent (but no further) that same are valid and subsisting as of the date hereof and affect title to the Property (the "Encumbrances"); and Grantor does hereby bind itself and its successors and assigns to WARRANT AND FOREVER DEFEND all and singular the Property, subject to the Encumbrances, unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

[END OF TEXT]

IN TESTIMONY WHEREOF, this instrument is executed as of the Zoth day of

GRANTOR:

LONG POINT PARTNERS, LP, a Texas limited partnership

By: Ruffino Hills Development Corporation, a Texas corporation, its General Partner

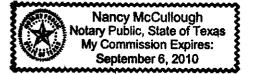
By: UFKEY Name: Brinn K Title: VICE PRE

THE STATE OF TEXAS COUNTY OF Dallas

2007, by Brian Alucker, Vice Vesident of Ruffino Hills Development Corporation, a Texas corporation, General Partner of LONG POINT PARTNERS,

LP, a Texas limited partnership, on behalf of said limited partnership.

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Notary Public in and for the State of Texas

My commission expires

EXHIBIT A

To Special Warranty Deed

[See Attached]

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Exhibit A – Page 1

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EXHIBIT "A"

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All that certain parcel or tract of land containing 2644.73 acres of land, more or less, out of the Louis Wolf Survey, Abstract No. 540, R. Morris Survey, Abstract No. 654, O'Neill Channell Survey, Abstract No. 730, Fred P. Olcott Survey, Abstract No. 251, George Waters Survey, Abstract No. 346, T. F. Pinckney Survey, Abstract No. 655 and Philo Fairchild Survey, Abstract No. 24, all being in Fort Bend County, Texas, and being more particularly described by metes and bounds on Exhibit "B" attached hereto and made a part hereof.

CHARLIE KALKOMEY SÜRVEYING, INC. (11) MONEAVENT ROOMENT, TRUE 77-071 (713) 343-3333

CHARLIE KALKOMEY

CHARLES A. KALKOLIEY REGISTERED PROFESSIONAL VAID BURVE

FIELD NOTES FOR A 2,678.6741 ACRE TRACT OF LAND, 240.6444 ACRES IN THE LOUIS WC SURVEY, ABSTRACT 540, 79.6615 ACRES IN THE ONEL CHANNEL SURVEY, ABSTRACT 730, 311.2 ACRES IN THE FRED P. OLCOTT SURVEY, ABSTRACT 251, 35.3774 ACRES IN THE R. MOR SURVEY, ABSTRACT 654, 496.3785 ACRES IN THE GEORGE WATERS SURVEY, ABSTRACT 3 914.1213 ACRES IN THE PHILO FAIRCHILD SURVEY, ABSTRACT 24, 20.6376 ACRES IN THE T PINCKNEY SURVEY, ABSTRACT 655, BEING OF THE CERTAIN QUIT CLAIM DEED RECORDED VOLUME 525, PAGE 282, DEED RECORDS, AND 510.5182 ACRES IN THE T. F. PINCKNEY SURVI ABSTRACT 655, BEING THAT CERTAIN CAL "FIFTH TRACT" RECORDED IN VOLUME 116, PAGE 3 DEED RECORDS, FORT BEING COUNTY, TEXAS.

BEGINNING at a spinile set at the west most corner of the Louis Wolf Survey. Abstract 540, for the west a corner and <u>Place of Periminan</u> of the herein described 2,678.6741 acre tract, sold point having coordina X=1,038,\$17.5728, Y=579,012.2319, and coordinates being derived from Station Fairchild having coordinates 3,029,726.72 and Y=590,551.40;

THENCE south 45 degrees 14 minutes 05 seconds East along a fence line as located on the southwest line of a Louis Wolf Souvey, Abstract 540, at 50.00 feetpass a 1 linch iron pipe set on the southwast rangin of P.M. Highs 1994 and continuing for a total distance of 3968.69 feet to a concrete monument with a brass cap found at the so most conner of said Louis Wolf Survey, Abstract 540, same being the westmost corner of the O'Nejl Changel Surv Abstract 730;

THENCE South 48 degrees 24 minutes 14 scounds East along the southwest line of suid O'Nell Channel Surv Abstract 730, 1335.91 feet to a 1 inch iron pipe found on the northwest line of the D. J. Jones Survey, Abstract 5 same being the south conser of the O'Nell Channel Survey, Abstract 730, for concer:

THENCE North 41 degrees 08 minutes 07 seconds East along the common kine of sold Griell Chemel Surv Abstract 730, and the D.J. Jones Survey, Abstract SEI, 787.47 feet to a concrete monument found for a re-su corner to the herein described 2,673.6741 acre tract, same being the north corner of the aforementioned D.J. Jos Survey, Abstract SEI, and the lower west corner of the Fred P. Olcott Survey, Abstract 251:

THENCE South 50 degrees 10 minutes 10 seconds east along the common line of the D.J. Jones Survey, Abstr 581, and the Fred P. Olcon Survey, Abstract 251, 1962.61 free to a concrete monument found at the south mcorner of the Fred P. Olcon Survey, Abstract 251, for conner, some being on the northwest line of the H. & T. R.R. Company Survey, Section 111;

page 10511

THENCE North 41 degrees 43 minutes 50 seconds East along the common line of the Fred P. Okott Surv Aburact 251, and the H. & T. C. R.R. Company Survey, Section 111, 3668.58 fact to a concrete monoment for for comer, said point being the north comer of the aforementioned Section 111, same being the cast most concer the Fred P. Okott Survey, Abstract 251, and being on the southwest line of the T. F. Pinckney Survey, Abstract 6:

THENCE, South 48 degrees 28 minutes 26 seconds Hast along the common line of the T. F. Piochary Surv Abstract 655, and the H. & T. C. R.R. Company Survey, Section 111, 5269.57 fort to a 1 inch iron pipe set for south most corner of the herein described 2,678.6741 acre tract, same being the south most corner of the T. Pinchary Survey, Abstract 655;

THENCE North 41 degrees 37 minutes 09 seconds East along the southeast line of the T. F. Pincinsy Surv Alatract 655, 3015,65 feet to a 1 inch line pipe set at sence corner intersection for an angle point, same being t south most corner of the aforementioned 20.6376 scre tract recarded in Quit Cisim Deed, Volume 525, Page 21 Deed Records, Fort Bend County, Texas;

THENCE North 41 degrees 48 relatives 16 seconds East along the northeast line of said T. F. Pinckney Survey. Abstract 655, 913.97 feet to a 1/2 inch icon pipe set at the east most corner of said T. F. Pinckney Survey. Abstra 655, 983.97 feet to a 1/2 inch iron pipe set at the east most corner of mid 20.6376 acre pact for the northeast me corner of the barein described 2,678.6741 acre mack

THENCE North 48 degrees 11 minutes 45 seconds West along a line establishing the northeast line of the herr described tract, at 493.20 fact pass a 1 inch iron pipe set on the southerly line of Davis Estate Read and content for a total distance of 539.60 fact to a spindle set in the controlline of said Davis Estate Road for conter;

THENCE South 22 degaces 50 minutes 16 seconds West along the center line of David Estate Road, 960.58 fr to a 1/2 lach item pipe set at an angle point in said road;

THUNCE: North 62 degrees 38 minutes 59 seconds West, 395.67 feet to a 1/2 inch iron pipe set in the center liof said Davis Estate road at the porth most corner of said 20.6376 acre tract;

THENCH North 01 degree 58 minutes 42 seconds West, 40.15 feet to a fish plate found at a fance comintersection being on the common line of the T. F. Pinckney Survey, Abstract 655, and the Philo Fairchild Surve Abstract 24;

THENCE continuing North 91 degree 58 minutes 42 seconds West along a Sence Ene, 2794.24 fast to a 1 inchin pipe set at an angle point on sold Hos;

THENCH North OI degree 30 minutes 25 seconds West along a fence line, 2562.50 feet to a 1 inch iros pipe a at an angle point;

THENCE North 00 degrees 15 minutes 59 seconds East, 525,63 feet to a 1 inch iron pipe set at an angle point;

THENCE North 00 degrees 15 minutes 59 seconds East, 507,83 foet to a point on the potheniy chuncel back . Big Creek for the east most commer of the herein described 2,678,6741 acre tract:

page 2 of 11

THENCE along the southerly channel back of Big Creek with its memoies:

North 33 degrees 28 minutes 20 seconds West, 265.68 feet; North 33 degroes 28 minutes 29 seconds West, 174.53 fest; North 41 degrees 42 minutes 28 seconds West, 200.89 fast; North 39 degrees 58 minutes 14 seconds West, 301.87 fest; North 34 degrees 30 minutes 54 seconds West, 182.83 feet, North 26 degrees 25 minutes 40 seconds West, 261.18 fest; North 32 degrees 02 minutes 18 seconds West, 279.90 feet; North 30 degrees 35 minutes 39 seconds West, 268.20 But; North 15 degrees 27 minutes 21 seconds Wast, 345.51 fast; North 26 degroes 02 minutes 18 seconds West, 114.71 fect, North 36 degrees 33 minutes 54 seconds West, 77.48 fast; North 51 degrees 32 minutes 26 seconds West, 132.74 fort; North S6 degrees 55 minutes 10 moonds West, 220.08 forth North 65 degrees 46 minutes 53 should West, 143.33 fast; North 73 degrees 31 minutes 05 seconds West, 130.47 feet; North 78 dagaces 22 minutes 48 seconds West, 387.76 feet; North 71 degrees 23 minutes 56 meands West, 174.06 fort; North 70 degrace 57 minutes 14 seconds West, 213.55 fast; North 76 degrees 44 minutes 40 seconds Warr, 152.96 fart; South \$9 degrees SE minutes 16 seconds West, \$12.00 fest; South 77 degrees 31 minutes 18 seconds West, 285.54 Set; South 78 degrees 17 minutes 19 seconds West, 140.82 feet; South \$7 degrees 42 minutes 03 seconds Wast, 180.29 feet; North 59 degrees 34 minutes 12 seconds West, 168.32 feet, South \$3 dagrees 54 minutes 59 seconds West, 190.95 feet; North 55 degrees 09 minutes 59 seconds West, 127.06 fost; North 62 degrees 18 minutes 11 seconds West, 126.14 feet; North 45 degrees 32 minutes 28 seconds Wast, 218.62 fast; North 38 degrees 04 minutes 35 seconds West, 211-29 fiest; North 21 degrees 55 minutes 32 seconds West, 133.83 fast; North 15 degrees 31 minutes 37 seconds West, 147.63 fest; North 06 degrous 42 minutes 27 seconds Wast, 294.79 feet; North Of degrees 20 minutes 10 seconds West, 279.04 feet; North 18 degrees 02 minutes 43 accords East, \$4.85 feat; North 02 degrees 57 minutes 45 mounds East, \$7.25 feet; North 22 degress 48 minutes 35 seconds Hest, 192.43 feet; North 17 degrees 03 minutes 50 seconds East, 239.35 fort; North 03 degrees 22 minutes 13 seconds East, 94.52 fort, North 09 degrees 00 minutes 11 seconds West, \$3.40 feet; North 28 degrees 09 minutes 29 seconds West, 93.64 feet; North 41 degrees 01 minutes 25 seconds West, 140,79 feet, North 50 degrees 53 minutes 56 seconds West, 264.23 feet; and

Note 50 degrees 53 memore 50 memore West, 491.43 http://www. North 61 degrees OK mineme 49 seconds West, 86.53 het to a point on the antiherty absund of Big Creek for the north most conser of the hurde described 2,678,6741 acro west, shan being on the conserve line of the Philo Fairchild Servey, Abstract 24, and the P. Lippenest Langue, Abstract 51;

page 3 at 11

THENCE South 41 degrees 44 minutes 36 seconds West along the common line of the E. Lippencott Lang Abstract 51, and the Philo Fairchild Survey, Abstract 24, at 5277.78 flat pass file west corner of said Philo Fairch Survey, Abstract 24, at 5277.78 fest pass the west corner of said Philo Fairchild Survey, Abstract 24, at 5277.78 fest pass the west corner of said Philo Fairchild Survey, Abstract 24, at 5277.78 fest pass the west corner of said Philo Fairchild Survey, Abstract 24, at 5277.78 fest pass the west corner of said Philo Fairchild Survey, Abstract 24, same being the north corner of the George Waters Survey, Abstract 346, same being file north corner of the R. Morris Survey, Abstract 654, and being on the southeast line of the E. Lippencort Lang Abstract 51;

THENCE South 48 degrees 10 minutes 01-second East slong the southwest line of the R. Morris Survey, Abstr. 654, 277.50 feet to s 1 1 /4 inch iron pipe set for a no-only contra to the horsis described 2,678.6741 are us sume being the north conter of the Louis Wolf Survey, Abstract 540, and being on the southwest line of the Morris Survey, Abstract 544;

THENCIE South 41 degrees SE minutes 11 seconds West along the northwest line of said Louis Wolf Surn Abstract 540, as located in F.M. Highway 1994, 2643.66 feet to the <u>Place of Beginning</u> and containing 2,678.67 acres of loud, more or less.



Charlie Kallo

Chulle Kallomey, R.P.I.S. Texus Registration No. 1399 January 3, 1996

Job No. 2010-04-FB

SAVE AND EXCEPT THE FOLLOWING DESCRIBED TRACTS.

FM. HIGHWAY 1994 NORTHEAST

FIELD NOTES FOR A 11.96 ACRE TRACT OF LAND BEING PART OF THE R. MORRIS SURVE ABSTRACT \$54, AND THE GEORGE WATERS SURVEY, ABSTRACT 346, AND THE PHILCO FAIRCHIL SURVEY, ABSTRACT 24, FORT HEND COUNTY, TEKAS, SAID 11.96 ACRE TRACT BEING 50 FOC WIDE STRIP OF LAND SOUTHEAST OF THE CENTERLINE OF F.M. HUBHWAY 1994, SAID 50 FOC WIDE STRIP OF LAND SHING RECORDED IN VOLUME 344, PAGE 155, DEED RECORDS, FORT BEN COUNTY, TEXAS, WITH ALL BEARING AS SHOWN ARE GRID NORTH, BEARINGS AN COORDINATES HEREON ARE BASE UPON THE U.S.C.40. MONUMENTATION AND THE TEXA PLAIN COORDINATES SYSTEMS NORTH AMERICAN LAMBERT PROJECTION SOUTH CENTRA ZONE, STATION FAIRCHILD, HAVING COORDINATES Y=590.551.40 X=3.029,726.78;

COMMENCING at a cotton picker spindle found at the south comer of the E. Lippencott League, Abstract 5 same being on the northeast line of the J. Mayor Survey, Abstract 559;

THENCE North 41 degrees 44 minutes 36 seconds East along the outstille of F.M. Highway 1994, 352.31 fo to a spindle set on said line for the west corner and Pisce of Reginning of the berein described 11.96 nore tract o land;

page 4 . 4 11

THENCE continuing North 41 degrees 44 minutes 36 seconds West along the Southeast line of the R. Lippenco Langes, Abstract 51, being the northwest line of the aforementioned R. Monie Survey, Abstract 654, the northwest line of the Goorge Waters Survey, Abstract 346, and the northwest line of the Phileo Fairchild Survey, Abstract 2same being the northwest line of the Texas Guif Sulfar Company, 2,678.6741 asre tract of land for a distance of 10,415,89 feet to a point on said line interseeing with the South Channel Bank of Big Creek for the north come of the harvin described 11.96 erre tract of land;

THENCE South 48 degrees 15 minutes 24 seconds East along a line catabiliting the northeast line of the herei described parcel of land, 50 feet to a point on the southeast right-of-way line of F.M. Highway 1994 for the one conver of the herein described tract;

THENCE South 41 degrees 44 minutes 36 seconds West slong the southeest right-of-way line of P.M. Highway 1994 for a distance of 10,415.89 fort to a point on sold line interacting with lower northeest line of the J. Maye Survey, Abstract 559, for the south const of the herein described inst;

THENCE North 48 degrees 15 minutes 24 seconds West establishing the southwest line of the herein describes meet, 50 feet to the Pince of Regimning and containing an area of 11.96 acres, more or lass.

For reference and further description ses Survey Pist No. 2010-04-FB, prepared by the undersigned on same date



Matin Kalfora

Charlie Kalkomey, R.P.L.S. Texas Registration No. 1399 January 3, 1996

Job No. 2040-04-FB

K.M. HIGHWAY 1994 SOUTHWEST

FIELD NOTES FOR A 2.69 ACRE TRACT OF LAND IN THE LOUIS WOLF SURVEY, ABSTRACT 540, FORT BEND COUNTY, TEXAS, SAID 2.69 ACRE TRACT BEING PART OF THE TEXAS GULF SULFUR COMPANY, 2,678.6741 ACRE TRACT OF LAND, ALSO BEING A PART OF THAT 240.64 ACRE TRACT, RECORDED ON VOLUME 118, PAGE 495, DEED RECORDS, FORT BEND COUNTY, TEXAS, AND BEING LOCATED WITHEN THE RIGHT-OF-WAY OF F.M. HIGHWAY 1994 (1964FOOT RIGHT-OF-WAY) WITH ALL BEARINGS AS SHOWN FOR GRID NORTH, BEARINGS AND COORDINATES SHOWN HEREON ARE DASED UPON THE U.S.C.40. MONUMENTATION AND THE TEXAS FLAIN COORDINATES SYSTEM NORTH AMERICAN LAMBERT PROJECTION SOUTH CENTRAL ZONE, STATION FARCHILD HAVING COORDINATES Y= 590,551.40 X=3,029,726.78;

BEGINNING at a count picker spindle found at the west countr of the aforementioned Louis Wolf Survey, Abstract 540, for loo west countr and the Piace of Beginning of the herein described 2.69 acrost text of land, and point having coordinates X=3,038,817.5728 Y= 579,0122319, and point also being the south countr of the adjoining J. Meyer Survey, Abstract 559, and the north countr of the solid ing H.&T.C. Railroad Company Survey, Section 67, Abstract 238, also being the cast corner of the W. Halcher Survey, Abstract 73, and point also being the west countr of the Texas Guif Sulfur Company, 2,678.6741 acrost act of land;

page Sof 11

THENCE North 41 degrees 58 minutes 11 seconds Best along the northwest line of the aforementioned Louis V Survey being a northwest line of the aforementioned 2,678.6741 acre tract and the southeast line of the J. Me Survey, Abstract 559, for a distance of 2,342.59 feet to a point intersecting the northwast night-of-way line of F Highway 361, for the north corner of the herein described purcel of land;

THURNER South 45 degrees 01 minute 49 seconds East along the line establishing the mortheast line of the bedescribed tract, 50 fest to a point for the tast comment for the karsin described 2.69 agree tract;

THENCE South 41 degrees 58 minutes 11 seconds West along the line setablishing the southeast line of its her described intel, 2,342.59 fort to a point intersecting with the southwest line of the Louis Wolf Survey, Abstract 5 for the south corner of the herein described tract;

THENCE North 48 degrees 01 minute 49 seconds West along the southwest line of the Louis Wolf Survey, 50: to the Place of Beginalag and containing 2.69 series of land more or less.

For reference and further description see Survey Plat No. 2080-04-FB, prepared by the undersigned on some d:



Chals Exclored

Charlie Kalkomey, R.P.L.S. Texas Registration No. 1399 January, 3, 1996

Job No. 2010-04-FB

CANE BELT RAILROAD RIGHT-OF-WAY

PRELD NOTES FOR A 34.73 ACRE TRACT OF LAND PART OF BEING IN THE J. MEYER SURVE ABSTRACT 359, PART IN THER. MURRAY SURVEY ABSTRACT 154, PART IN THE GEORGE WATER SURVEY ABSTRACT 346, AND PART IN FILEDCO FAIRCHILD SURVEY ABSTRACT 24 FORT BEN COUNTY TEXAS, SAID 34.73 ACRE TRACT BEING APART OF THE TEXAS GULF SULPHUR COMPAN 2678,6741 ACRE TRACT OF LAND AND BEING THAT CERTAIN TRACT TEXAS GULF SULPHUR COMPANY BT AL. TO CANE BELT PAEROAD COMPANY BT AL DATED LANUARY 3, 19 RECORDED IN VOLUME 231, PAGE 347, AND THAT CERTAIN DEED TEXAS GULF SULPHU COMPANY BT AL TO CANE BELT PAEROAD COMPANY BT AL DATED LANUARY 3, 19 RECORDED IN VOLUME 231, PAGE 347, AND THAT CERTAIN DEED TEXAS GULF SULPHU COMPANY BT AL TO CANE BELT PAILROAD COMPANY DATED MAY 19, 1930, RECORDED 1 VOLUME 131, PAGE 293, DEED RECORDS, FORT BEND COUNTY, TRXAS, WITH ALL BEARINGS A SHOWN ARE GRID NORTH, BEARINGS AND COORDINATES SHOWN HERE ON ARE BASED UPO THE U.S.C.46 MONUMENTATION OF THE TEXAS PLANE COORDINATES SYSTEM NORT AMERICAN LAMBERT PROJECTION SOUTH CENTRAL 20NE STATION FAIRCHILD HAVIN COORDINATES Y-59051.40 X=3,019.726.78.

COMMENCING at a cotton picker spindle found at the centerline intersection of FM Highway 361 (100 foot sigh of way) being the south corner of the F. Lippencott Langue, Abstract 51, same being on the mortheast line of the Meyers survey, abstract 559, said spindle having coordinates Y=580.899.96 X=3.040.144.16;

page 6 of 11

TRENCE North 41 degrees 44 minutes 36 seconds West along the southeast line of said B. Lippersott leng being the survivous line of the J. Mayer survey abstract 559 and being the contestine of FM Highway 1994 (100 fe right-of-way) for a distance of 50 feet to a point on said line;

THENCE South 48 degrees 15 minutes 24 seconds West 203.55 feet to a point on the contestine of t aforementioned Case Belt Railcoad for the Place of Beginning of the benefit described contasting description;

THENCE North 46 degrees 47 minutes 23 seconds East along the seaterline of said relirond being 120 foot wi right-of-way for a distance of 2993.52 feet to a point on said line at which point said 120 foot right-of-way and s a 160 foot right-of-way begins;

THENCE commining North 46 degrees 47 minutes 23 seconds East along the controlling of sold mileoed the rightway being 160 while 5979.01 fact to a point on sold line at which point the 160 foot night-of-way ends and sold right of-way becomes 200 flott while;

THENCE costioning North 45 degrees 47 minutes 23 seconds East along the centraline of sold railroad with t right-of-way boing 200 feet wide 525.23 feet to a point in the centraline of sold railroad intersecting with the sou channel bank of Big Crock for the termination of the herein described centraline and commining an area of 34.73 are of land, more or less.

For reference and further description see Survey Plat No. 2010-04-FB propered by the undersigned on same dat



age 1: Callmy

Charlie Kalkonney, R.P.L.S. Texas Registration Number 1399 Date: January 3, 1996

Job Number 2010-04-FB

TEXAS GULF SULPHUR COMPANY AND GULF PRODUCTION COMPANY TO CANE BEL' RAILROAD COMPANY (VOLUME 133, PAGE 511, DEED RECORDS, FORTHORD COUNTY, TEXAS

FIELD NOTES FOR A 1.31 ACRE TRACT OF LAND IN THE PHILCO PAIRCHILD BURVEY ABSTRAC 24, FORTBEND COUNTY, TEXAS, SAID 1.33 ACRE TRACT BEING THAT CHRITAIN TRACT CONVEYED FROM TEXAS GULF SULPHUR COMPANY AND GULF PRODUCTION COMPANY TO CANE BELL RAILROAD IN DEED DATED DECEMBER 5, 1930, RECORDED IN VOLUME 133, PAGE 511, DEEL RECORDS, FORTBEND COUNTY, TEXAS, WITHALL BEARINGS AS SHOWN HERE ARE GRID NORTH BEARINGS AND COORDINATES SHOWN HERE ARE BASED UPON U.S.C. & G MONUMENTATION AND THE TEXAS PLANE COORDINATES SYSTEMNORTH AMERICAN LAMBERT PROJECTION SOUTH CENTRAL ZONG STATION FAIRCHED HAVING COORDINATED Y-590551, 40 X-3, 029,726,71.

COMMENCING at a color picker spinile found in the canterline intersection of FM Highway 361 (100 footnight of-way) and the conterline of FM Highway - 1994 being the south canter of the R. Linguescur League, Abstract 51, source out the northeast line of the J. Mayer Survey, Abstract 539 sold spinile having coordinates Y-50059.05 X-3,040,144.16;

page 7 of 11

THENCE North 41 degrees 44 minutes 36 seconds East along the southeest line of the aforementioned E. Lipkinov League being the lower northeast line of the J. Meyer Survey abstract 359, the northwest line of the R. Menis Survey, abstract 559 the northwest line of the George Waters Survey abstract 346, 5490.42 feet to a point on add line being the north corner of the George Waters Survey abstract 348 and the west corner of the Faileto Fairchild Survey abstract 24, and point having coordinates of Y=584496.50 X=3043799.65;

THENCE South 45 degrees 06 minutes 07 seconds East along the common line of the George Waters survey and the Philos Faircinki Survey 683.84 feet to a point on the contesting of the Cane Balt Railroad;

THENCE North 46 degrees 47 minutes 23 seconds East along the centurline of said Cane Bell Raihoad having a with of 160 fest 347.8 fast to a point on said line;

THENCE North 43 degrees 12 minutes 37 seconds West 30 foot to a point on the northwest right-of-way line or said Cane Belt Railroad for the south camer and Place of Beginning of the herein described 1.38 secretari of land

THENCE continuing North 43 degrees 12 minutes 37 seconds west 150 feet to a point for the west corner of the herein described tract;

THENCE North 45 degrees 47 minutes 23 seconds East slong the line suchlishing the northwest line of the heath described purces of fand 400 feet to a point for the north corner of the heatin described tract;

THENCE South 43 degrees 12 minutes 37 seconds Bast along a line establishing the northeast line of the hereidescribed parcel of land 150 feet to a yount on the northwest line of the alignmentationed Cane Belt Rained for th east comet of the herein described tract;

THENCE South 46 degrees 47 minutes 23 seconds West along the northwest line of said Case Belt Raikeed right of way 400 feet to the Piace of Beginning and containing 1.38 second find, more or less.

For reference and further description see Survey Pist No. 2080-04-FB prepared by the undersigned on same date



Antis Kaltong

Charlie Kaikonny, R.P.L.S. Texas Registration Number 1399 Data: January 3, 1996

Job Number 2010-04-FB

page 3 of 11

COUNTY ROAD

HELD NOTES FOR A 4.52 ACRE TRACT OF LAND BEING PART IN THE LEWIS WOLF SURVEY ABSTRACT 540, R.L. MORRIS SURVEY, ABSTRACT 654, AND THE OBORGE WATERS SURVEY ARSTRACT 346, FORTBEND COUNTY, TEXAS, SAID 4.52 ACRETRACTBEING A PART OF THE TEXAS GULF SULFUR COMPANY, 2,678,6741 ACRE TRACT OF LAND AND BEING THAT CERTAIN CALLER 4.62 ACRE TRACT OF LAND CONVEYED BY TEXAS GULF SULFUR COMPANY TO FORT BENI COUNTY, RECORDED IN VOLUME 43, PAGE 526, DEED RECORDS, FORT BEND COUNTY, TEXAS WITH ALL BEARINGS AS SHOWN ARE GRED NORTH, BEARINGS AND COORDINATES SHOW? HIREON ARE BASED UPON THE U.S.C.AG. MONUMENT AND THE TEXAS FLAIN COORDINATE SYSTEMNORTH AMERICANLAMBERT PROJECTION SOUTH CENTRAL ZONE, STATION FAIRCHELI HAVING COORDINATES Y=590,551.40 X=3,029,726.78;

COMMENCING at a coston pictor spindle found at the controline intersection of F.M. Highway 361 (100-for right-of-way) and a controline of F.M. Highway 1594 being the south context of the R. Lippencott Largue, Abstrac 51, same being on the northeast line of the J. Mayer Survey, Abstract 559, said spindle having coordinate Y-510,899.96 X=3,040,144.16;

THENCE South 48 degrees 25 minutes 32 seconds East along the nontheast line of the aforementioned adjulnin, J. Meyer Survey, Abstract 559, being the centraline of County Road 361, 276.11 feet to a point of intersection will a centraline at F.M. Highway 1994;

THENCE North 51 degrees 48 milestes 44 seconds East, 49.23 fort to a point of beginning of the herein describe contening (being 30-foot unch side of the herein described line), said point also being in a curve to the right;

THENCE storned sold curve to the right with a cantral single of 14 degrees 48 minutes 37 seconds, a radius a 1,154.13 feet, a art length of 298.33 feet, a tangent of 150.00 feet, and a chord bearing North 59 degrees 36 minute 45 seconds East, 297.50 feet for a point of tangency of said curve;

THENCE North 67 degrees 01 minute 03 seconds East, 231.17 feet to a point at the beginning of a surve to fa right:

THENCE, around said curve to the right with a central angle of 38 degrees 14 minutes 17 seconds, a radius o 432.78 fort, an aro length of 288.78 feet, a tangent of 150.00 feet, and a cheel hearing North 86 degrees 08 minute 11 seconds Elser, 283.45 feet to the point of suggesty of said surve;

THENCE: South 74 degrees 44 minutes 38 seconds East, 109.25 feet to a point at the beginning of a curve to the right:

TILENCE around sold curve to the loft of a central angle of 58 degrees 43 minutes 03 seconds, a radius of 479.9: fost, an ato length of 491.88 foot, a tangent of 270.00 fast, and a chord bearing North 75 degrees 53 minutes 51 seconds East, 470.64 feet to the point of tangency of sold curve and the beginning of a curve to the left;

THENCE around sold curve to the Jeft with a central angle of 14 degrees 44 minutes 37 seconds, a radius of 1159.44 foct, a length 298.34 foot, a tangent of 150 foot and a abord bearing North 39 degrees 09 minutes 59 seconds Ban 207.52 foot to a point for the tangentcy of sold surve:

THENCE North 31 degrees 47 minutes 39 seconds East, 386.72 feet to a point at a beginning of a curve to the tight

gage got !!

THENCE around said curve to the right with a central tagis of 33 degrees 09 minutes 06 seconds, a radius 671.92 fest, an are length of 388.78 fect, a tangent of 200.00 feet, and a chord bearing North 48 degrees 22 minut 13 seconds Easy, 383.38 feet to the point of tangency of said curve;

THENCE North 64 degrees 56 minutes 46 seconds East along the canterline of the herein described descriptic 789.85 feet to a point intersecting with the westerly right-of-way line of Davis Estate Road (60-feet wide) : determination of the herein described centriline and containing as area of 4.52 scree of land, more or loss.

For reference and further description see survey Pist No. 2060-04-FR, prepared by the undersigned in sume de



Hanks Kachney

Cheriic Kalkousy, R.P.L.S. Taxas Registration No. 1399 January 3, 1996

Job No. 2020-04-13

DAVIS ESTATE ROAD

FIELD NOTES FOR A 16.95 ACRE TRACT OF LAND BEING PART IN THE GEORGE WATERS SURVE ABSTRACT 346, AND PART IN THE T.F. PICKENY, ABSTRACT 653, FORT BEND COUNTY, TEXA SAID 16.95 ACRE TRACT BEING A PART OF THE TEXAS GULF SULFUR COMPANY, 2.578,6741 ACI TRACT OF LAND AND HEING THAT CERTAIN TRACT CONVEYED BY GULF PRODUCTIX COMPANY, BTAL, TOFORT BEND COUNTY, DECEMBER 14, 1929, RECORDED IN VOLUME 129, PAR COMPANY, BTAL, TOFORT BEND COUNTY, DECEMBER 14, 1929, RECORDED IN VOLUME 129, PAR COMPANY, BTAL, TOFORT BEND COUNTY, TEXAS, WITH ALL BEARINGS AS SHOWN HEREON AN 533, DEBUS RECORDS, FORT BEND COUNTY, TEXAS, WITH ALL BEARINGS AS SHOWN HEREON AN GRID NORTH HEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON THE U.S.C.# MONUMENTATION AND THE TEXAS PLANE COORDINATES SYSTEM NORTH AMERICAN LAMBED IROUECTION SOUTH CENTRAL ZONE, STATION FAIRCHILD, HAVING COORDINATES Y=590,551. X=9,029,725,73;

COMMENCING at a cotton picker spindle found in the centerline of F.M. Highway 361 (100-foot night-of-wa being the south comer of the H. Lippencott League, Abstract 51, same being on the northcast line of adjoint George Waters Survey, Abstract 346,

THENCE North 41 degrees 44 minutes 36 seconds East along the next west line of the aforementioned 2,678.67 sore what for a distance of 3,004.43 just to a cotton picker spindle set on said line at the intersecting point of (contenting of Davis Estate Road;

THENCE South 47 degrees 55 minutes 19 seconds East along the extension of the centerline of Davis Estau Ros 50 feet to a point on the southeast right-of-way line of R.M. Highway 1949 for the Place of Deglandary of the hen described conterline description of a 60-foot wide strip of land;

THENCE South 47 degrees 55 minutes 19 seconds East along the centerline description of the hereix descript 60-foot while strip of lami being 30-foot after side of the herein described centerline, 1, 390.83 feet to a point on s line at the beginning of a curve to the right;

page 10 of 11

THENCE around said curve to the right with a central angle of 14 degrees 30 minutes 39 seconds, a radius : 1,178.25 fact, on arc length of 298.41 fact, a tangent of 150.00 flot, and a choost bearing South 55 degrees 1 minutes 44 percends East, 297.61 fact to the tangency of said curve;

TEXENCES South 62 degrees 26 minutes 02 seconds East along the centraline of the hundre described description 9,795.90 foot in a 14 justs iron pipe set on said line at a cattle guard across said strip of land for an angle point;

TELENCE South 62 degrees 38 minutes 19 seconds East along the contaction of the herein described description 395.67 feet to a 1/2 fach iron pipe set for an angle point on said line;

TERINCH North \$2 degrees 50 minutes 14 seconds Enst, 960.58 feet to a ½ inch joyn pipe set on mid lise for its termination of the herein described contactine description.

For reference and further description see Servey Plat No. 2010-04-FB, prepared by the undersigned on sume date

Chase Kathama,

Charlie Kalkonsy, R.P.L.S. Texas Registration No. 1399 January, 3, 1996

Job No. 2080-04

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EXHIBIT B

To Special Warranty Deed

[See Attached]

Exhibit B – Page 1

. .

EXHIBIT B

1.

₹.

The following restrictive covenants of record itemized below

Fort Band County Clerk's File No(s). 9681121 and 2001088254.

Deleting any unlawful discriminatory provisions based on race, color religion, sex, handicap, familial status or national origin.

.

Standby fees, taxes and assessments by any taxing authority for the year 2004, and subsequent years.

- 3 Right-of-way easement for the construction, maintenance and operations of railroad trackage along and across subject property, granted to The Cane Belt Railroad Company and Texas and New Orleans Railroad Company by instrument recorded in Volume 231, Page 387 of the Deed Records of Fort Bend County, Texas, with the exact location of said easement as shown on the map marked Exhibit "A" attached to said instrument.
- Y Right-of-way easement 60 feet in width for ingress and egress traversing subject tract, granted to Fort Bend County. Texas by instrument recorded in Volume 129, page 553 of the Deed Records of Fort Bend County, Texas.
- Right-of-way and easement 60 feet in width for ingress and egress along the westerly and northwesterly portion of subject tract, granted to Fort Bend County by instrument recorded in Volume 433, Page 520 of the Deed Records of Fort Bend County, Texas.
- (An easement and right-of-way for electric transmission and distribution line(s) together with the right of ingress and egress along the northwesterly portion of subject tract, granted to Houston Lighting & Power Company by instrument recorded in Volume 588, Page 628 of the Deed Records of Fort Bend County, Texas.
 - 7 A right-of-way easement for the purpose of constructing one pipeline, not to exceed two inches located along the westerly side of subject tract, granted to Hamby Consultant, Inc., by instrument recorded in Volume 1041, Page 531 of the Deed Records of Fort Bend County, Texas.
 - A 25 foot by 30 foot surface easement located along the northerly portion of subject tract, granted to Houston pipe Line Company by instrument recorded in Volume 1876, Page 726 of the Official Records of Fort Bend County, Texas, and amended in Volume 1898, Page 309 of the Official Records of Fort Bend County, Texas.

- 9 Right-of-way easement 90 feet in width located along the northeasterly side of subject tract, granted to Fort Bend County Drainage District by instrument recorded in Volume 323, page 230 of the Deed Records of Fort Bend County, Texas.
- IC An additional right-of-way easement 70 feet in width parallel and adjacent to the southwesterly side of the existing 90 foot easement, granted to Fort Bend County Drainage District by instrument recorded in Volume 2190, Page 1551 of the Official Records of Fort Bend County, Texas.
- 11 A 60 foot right-of-way along the north portion of subject tract granted to Fort Bend County, Texas by instrument recorded in Volume 72, Page 447 of the Deed Records of Fort Bend County, Texas, also as shown on the preliminary survey dated January 3, 1996, to be 50 feet in width, prepared by Charlie Kalkomey registered public surveyor No. 1399.
- 12 Pipe line right-of-way 20 feet in width located along the southerly portion of subject tract, granted to Houston Pipe Line Co. by instrument recorded in Volume 452, page 167 of the Deed Records of Fort Bend County, Texas.
- 13 Grantors reserve unto themselves the free and uninterrupted use for passage over and across the south 1/2 of the right-of-way said Davis Estate Road located along the southerly side of Subject tract as set forth in instrument recorded in Volume 525, Page 282 of the Deed Records of Fort Bend County, Texas.
- 14 1/16th of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 142, Page 31 of the Deed Records of Fort Bend County, Texas. Title to seld interest not checked subsequent to date of aforesaid instrument.
- B A 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 142, Page 31, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 14. A 1/24th royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as sat forth in instrument recorded in Volume 142, Page 31, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 17 A 7/128th royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 118, Page 498, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 16 A 1/16th royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 116, Page 337, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.

- 19 1/16th of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 108, Page 221 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- No A 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 108, Page 221, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- J A 1/24th royalty interest in all all, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 108, Page 221, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 1/4th of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 142, Page 34 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 3 An undivided 1/5th interest of an undivided 3/10th interest in to all the sulphur conveyed to Texas Gulf Sulphur Co. by instrument recorded in Volume 153, Page 63, of the Deed Records of Fort Bend County, Texas.
- 2V A 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 103, Page 363, of the Deed Records of Fort Bend County, Texas. Title to seid interest not checked subsequent to date of aforesaid instrument.
- 251/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 103, Page 365 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- ²⁴ Undivided 3/40th sulphur fee and 1/32nd of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 1896, Page 1963 and Volume 2595, Page 1889 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- A 29.73 1/3% of 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 753, Page 511, Volume 754, Page 633 and Volume 754, Page 637, all of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 3.2400% of 1/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 760, Page 375 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.

- .29 .1000% of 1/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 782, Page 351 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 30.2400% of 1/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 883, Page 892 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 31 A 1/54th of 1/32nd royaity interest in all oil, gas and other minerals, the royaities, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 1160, Page 592, of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 321/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted harefrom as set forth in instrument recorded in Volume 104, Page(s) 61 & 63 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 3 1/4th of 1/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 108, Page 223 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 37 1/16th of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 114, Page 297 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 35 An undivided 3/10th interest in and to all of the sulphur conveyed to the Federal Royalty Co. by instrument recorded in Volume 114, Page 475 of the Deed Records of Fort Bend County, Texas.
- 34 An undivided 1/5th and an undivided 3/10th interest in and to all of the sulphur conveyed to the Freeport Sulphur Co. by instrument recorded in Volume 115, Page 327 of the Deed Records of Fort Bend County, Texas.
- 37 An undivided 1/20th interest in and to all the sulphur and 1/32nd of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 156, Page 498 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid Instrument.
- 39 An undivided 1/2 sulphur royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 275, Page 638, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.

- 37 1/20th in and to all of the sulphur royalty Interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 348, Page 548 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 40 Mineral Deed date March 1, 1985 as set forth in instrument recorded under Volume 1769, Page 318 of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to the aforesaid instrument.
- 41 Mineral Deed date January 1, 1987 as set forth in instrument recorded under Volume 1894, Page 1824 of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to the aforesaid instrument.
- Mineral Deed date June 1, 1987 as set forth in instrument recorded under Volume 1956, Page 2097 of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to the aforesaid instrument.

Waiver of surface rights contained therein.

- V3 Mineral Deed date February 27, 1992 as set forth in instrument recorded under Volume 2384, Page 1968 of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to the aforesaid instrument.
- H Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 99, Page 600 of the Deed Records of Fort Bend County, Texas.
- Forms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 103, Page 117 of the Deed Records of Fort Bend County, Texas.
- We Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 104, Page 117 of the Deed Records of Fort Bend County, Texas.
- 47 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 922, Page 34 of the Deed Records of Fort Bend County, Texas.
- 42 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 907, Page 369 of the Deed Records of Fort Bend County, Texas.
- 19 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 998, Page 361 of the Deed Records of Fort Bend County, Texas.
- S0 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 917, Page 272 of the Deed Records of Fort Bend County, Texas.
- SI Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1208, Page 401 of the Official Records of Fort Bend County, Texas.
- S Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1557, Page 73 of the Official Records of Fort Bend County, Texas.
- -S Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1557, Page 78 of the Official Records of Fort Bend County, Texas.

- SY Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1557, Page 83 of the Official Records of Fort Bend County, Texas.
- 55 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1591, Page 157 of the Official Records of Fort Bend County, Texas.
- 56 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1663, Page 144 of the Official Records of Fort Bend County, Texas.
- 57 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1980, Page 2405 of the Official Records of Fort Bend County, Texas.
- Subject to that particular Drill Site Designation Agreement as set out in instrument dated October 15, 1997, recorded under Fort Bend County Clerk's File No. 9771205.
- S7 A conveyance of railroad tracks located along the northwesterly portion of subject tract, granted to The Cane Belt Railroad Company by instrument recorded in Volume 131, Page 293 of the Deed Records of Fort Bend County, Texas, and conveyed to the Gulf Colorado and Santa Fe Raikroad Company by Deed recorded in Volume 262, Page 68 of the Deed Records of Fort Bend County, Texas.
- Rights of the Public in general in and to that portion of the subject property that lies within the boundaries of publically dedicated roadway, as set forth in instrument(s) recorded in Volume 344, Page(s) 153, 155, 158 and 160 of the Deed Records of Fort Bend County, Texas.
- 61 Terms, conditions and stipulations of that certain Industrial Solid Waste Disposal site across subject tract as set forth in instrument recorded in Volume 1158, Page 332 of the Official Records of Fort Bend County, Texas.
- 62 Terms, conditions and stipulations of that certain boundary agreement along the west side of subject tract as set forth in instrument recorded in Volume 271, Page 603 of the Deed Records of Fort Bend County, Texas.
- 43 Terms, conditions and stipulations of that certain solid waste disposal site as set forth in instrument recorded in Volume 731, Page 485 of the Deed Records of Fort Bend County, Texas.
- 64 Terms, conditions and stipulations of that certain Long Point Industrial Solid Waste Certification of Conditions as set forth in instrument recorded under Fort Bend County Clerk's File No. 9681121.

Rights of tenants in possession under unrecorded leases and/or rental agreements.



26 PGS

2006092081

DEED

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE FUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER

SPECIAL WARRANTY DEED

§ §

8

THE STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, by Special Warranty Deed (hereinafter referred to as the "<u>Original</u> <u>Deed</u>"), dated as of February 24, 2004, recorded under Fort Bend County Clerk's File No. 2004021722, Long Point Rartners, LP, a Texas limited partnership, sold and conveyed to Waste Services of Texas, Inc., a Delaware corporation (hereinafter referred to as "<u>Waste Services</u>"), that certain parcel or tract of land containing 2644.73 acres, more or less, in Fort Bend County, Texas, described in <u>Exhibit A</u> hereto, by reference made a part hereof (hereinafter referred to as the "<u>Original Property</u>"), and

WHEREAS, (Ruffing, Hills, LR, a Texas limited partnership (hereinafter sometimes referred to as "<u>Ruffing</u>"), is the successor by merger of Long Point; and

WHEREAS, Long Point Partners, LP, a Texas limited partnership (hereinafter sometimes referred to as "LPP"), is the successor by name change of Ruffino; and

WHEREAS, Fort Bend Regional Landfill LP, a Texas limited partnership (hereinafter sometimes referred to as "Fort Bend Regional"), is the successor by merger to Waste Services; and

WHEREAS, by error or mistake, the description of the Original Property in the Original Deed failed to include therein those certain 34.73 and 1.38 acre tracts of land located in Fort Bend County, Texas, described in Exhibit B hereto, by reference made a part hereof (hereinafter referred to as the "Omitted Tracts"); and

WHEREAS, LPP desires hereby to transfer and convey the Omitted Tracts to Fort Bend Regional, all as set forth below:

NOW, THEREFORE, in consideration of the premises, the sum of Ten Dollars (\$10.00) cash and other good and valuable consideration paid to LPP, the receipt and sufficiency of which consideration are hereby acknowledged, LPP (hereinafter referred to as 'Grantor'') has GRANTED, BARGAINED, SOLD and CONVEYED, and by these presents does GRANT, BARGAIN, SELL and CONVEY unto Fort Bend Regional (hereinafter referred to as 'Grantee'') the Omitted Tracts, together with all improvements situated thereon (hereinafter referred to collectively as the "Property").

Return To: At COUR James L. Read BAKER BOTTS One Shell Plaza -910 Louisiana Houston, Texas 77002

HOU03:1071982.2

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereto in anywise belonging, unto Grantee, its successors and assigns, forever, subject only to the matters described in <u>Exhibit C</u> attached hereto and made a part hereof to the extent (but no further) that the same are valid and subsisting as of the date hereof and affect title to the Property (hereinafter referred to collectively as the "<u>Encumbrances</u>"); and Grantor does hereby bind itself, its successors and assigns, to warrant and forever defend all and singular the Property, subject to the Encumbrances, unto Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

IN TESTIMONY WHEREOF, this instrument is executed as of the 24th day of February, 2004. LONG POINT PARTNERS A Texas limited partnership (the successor by name change of Ruffino Hills, LP, the successor by merger of the original Long Point Partners, LP) **RUFFINO HILLS DEVELOPMENT** By: CORPORATION, a Texas corporation, its General Partner By: Brian Kueker, Vice President Mailing Address of Grantee: Fort Bend Regional Landfill LP 1122 International Blvd., Suite 601 Burlington, Ontario L7L 6Z8 Canada Attachments: Exhibit A – Description of Original Property Exhibit B -- Description of Omitted Tracts Exhibit C -- Encumbrances

AS PER ORIGINAL

HOU03:1071982.2

THE STATE OF TEXAS §	
COUNTY OF HARRIS §	,
This instrument was acknowl	ledged before me on $uly \frac{26}{2}$, 2006, by Brian
Kueker, Vice, President of Kuttino Hills D	evelopment Corporation, a Texas corporation, the
General Partner of Long Point Partners, L corporation and limited partnership.	P, a Texas limited partnership, on behalf of said
	Mana Melalonal
	Notary Public in and for the
	Notary Public in and for the State of Texas
	NANCY MELANOUGH Typed or Printed Name of Notary
My Commission Expires:	
Sept 6. Clarke () _ ()	
	SEPTEMBER 6, 2008
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HOU03:1071982.2	\sim

	EXHIBIT A	
· (/) !	DESCRIPTION OF ORIGINAL PROPERT	Y
		Y
HOU03:1071982.2		

EXHIBIT "A"

1

All that certain parcel or tract of land containing 2644.73 acres of land, more or less, out of the Louis Wolf Survey, Abstract No. 540, R. Morris Survey, Abstract No. 654, O'Neill Channell Survey, Abstract No. 730, Fred P. Olcott Survey, Abstract No. 251, George Waters Survey, Abstract No. 346, T. F. Pinckney Survey, Abstract No. 655 and Philo Fairchild Survey, Abstract No.-24, all being in Fort Bend County, Texas, and being more particularly described by metes and bounds on Exhibit "A" attached hereto and made a part hereof.

. . .

CHARLIE KALKOMEY SURVEYING, INC. 1515 HONR AVENUE ROSEDWERG, TELAS 77471 (715) 343-2003

CHARLIE KALKOMEY AFOISTEAED PROFESSIONAL LAND SURVEYOR CHARLES & KALKOMEY REGISTERED PROPESTIONAL UND SURVE

FIELD NOTES FOR A 2,678.6741 ACRE TRACT OF LAND, 240.6444 ACRES IN THE LOUIS W SURVEY, AUSTRACT 540, 79,6635 ACRES IN THE ONBIL CHANNEL SURVEY, ABSTRACT 730, 311.2 ACRES IN THE FRED P. OLCOTT SURVEY, ABSTRACT 251, 35.3774 ACRES IN THE R. MOR SURVEY, ABSTRACT 654, 496.3785 ACRES IN THE GEORGE WATERS SURVEY, ABSTRACT 2 984,1783 ACRES IN THE PHILO FAIRCHILD SURVEY, ABSTRACT 24, 20.6376 ACRES IN THE T PINCKNEY SURVEY, ABSTRACT 655, BEING OF THE CERTAIN QUIT CLAIM DEED RECORDED VOLUME 525, PAGE 282, DEED RECORDS, AND 510.5842 ACRES IN THE T. F. PINCKNEY SURVI ABSTRACT 655, BEING THAT CERTAIN CAL "FIFTH TRACT" RECORDED IN VOLUME 116, PAGE 3 DEED RECORDS, FORT BEND COUNTY, TEXAS.

BEGINNING at a splittle set at the west most corner of the Louis Wolf Survey, Abstract 540, for the west n corner and <u>Pince of Regionsing</u> of the herein described 2,678.6741 acre tract, said point having coordina X=3,038,817.5728, Y=579,012.2319, sold coordinates being derived from Station Feirchild having coordinates 3,029,726.78 and Y=590,551,40;-

THENCE south 48 degrees 14 minutes 05 seconds East along a frace line as located on the southwest line of a Louis Wolf Survey, Abstract 540, at 50.00 feet pass a 1 inch iron pipe set on the southeast margin of F.M. Hight 1994 and continuing for a total distance of 3968:69 feet to a concrete monument with a brass cap found at the so most corner of said Louis Wolf Survey, Abstract 540, same being the westmost corner of the O'Neil Channel Surv Abstract 730;

THENCE South 48 degrees 28 minutes 14 seconds East along the southwest line of said O'Neil Channel Surv Abstract 730, 1335.91 feet to a 1 inch iron pipe found on the northwest line of the D. J. Jones Survey, Abstract 5 same being the south corner of the O'Neil Channel Survey, Abstract 730, for corner;

THENCE North 41 degrees 05 minutes 07 seconds Bast along the common line of said O'Neil Chennel Surv Abstract 730, and the D.J. Jones Survey, Abstract 581, 787.47 feet to a concrete monument found for a re-en corner to the herein described 2,678.6741 sere tract, same being the north concer of the aforementioned D.J. Jon Survey, Abstract 581, and the lower west corner of the Fred P. Okout Survey, Abstract 251;

THENCE South 50 degrees 10 minutes 10 seconds cast along the common line of the D.J. Jones Survey, Abstr 581, and the Fred P. Okott Survey, Abstract 251, 1962.61 feet to a conquete monument found at the south m corner of the Fred P. Okott Survey, Abstract 251, for corner, same being on the northwest line of the H. & T. R.R. Company Survey, Section 111;

THENCE North 41 degrees 43 minutes 50 seconds East along the common line of the Fred P. Olcott Surv Abumet 251, and the H. & T. C. R.R. Company Survey, Section 111, 3668.58 fleet to a concrete monument four for corner, said point being the north corner of the aforementioned Section 111, same being the cast most corner the Fred P. Olcott Survey, Abstract 251, and being on the southwest line of the T.F. Pinckney Survey, Abstract &

THENCE South 56 degrees 28 minutes 26 seconds linst along the common line of the T. F. Pinckney Surv Abstract 635, and the H. & T. C. R.R. Company Survey, Saction 111, 5269.57 feet to a 1 inch iton pipe set for south most corner of the herein described 2,678.6741 acre tract, same being the south most corner of the T. Finckney Survey, Abstract 655;

THENCE North 41-degrees 37 minutes 09 seconds East along the southeast line of the T. F. Pinckney Surv Abstract 655, 3015,65 feet to a 1 inch iron pipe set at a feace corner intersection for an angle point, same being t south most corner of the aforementioned 20.6376 acre tract recorded in Quit Claim Deed, Volume 525, Page 21 Deed Records, Fort Bend County, Traces;

THENCE North 41 degrees 48 minutes 16 seconds East along the southeast line of said T. F. Pinckney Surv Abstract 655, 933.97 feet to a 1/2 inch iron pipe set at the east most corner of said T. F. Pinckney Survey. Abstr 655, 983.97 feet to a 1/2 inch iron pipe set at the east most corner of said 20.6376 acre tract for the southeast mu corner of the herein described 2,678.6741, acre tract;

THENCE North 48 dogrees 1.1 minutes 45 seconds West along a line establishing the northeast line of the herr described tract, at 493.20 foot pass a 1 min iron pipe set on the southerly line of Davis Estate Road and continui for a total distance of 539.60 feet to a spindle set in the contextine of said Davis Estate Road for corner;

THENCE South 82 degrees 50 minutes 16 seconds West along the center line of David Estate Road, 960.58 ft to a 1/2 inch iron pipe set at an angle point in said road;

THENCE North 62 degrees 38 minutes 59 seconds West, 395,67 feet to a 1/2 inch iron pipe set in the center li of said Davis Estate road at the north most corner of said 20,6376 acre tract;

THENCE North 01 degree 58 minutes 42 seconds West, 40.13 feet to a fish plate found at a fence comintersection being on the common line of the T. F. Pinckney Survey, Abstract 655, and the Philo Fairshild Surve Abstract 24;

THENCE continuing North VI degree 58 minutes 42 seconds West along a fence line, 2794.24 feet to a 1 inch in pipe set at an angle point on said line;

THENCH North 01 degree 30 minutes 28 seconds West along a finite line, 2562,50 feet to a 1 inch iron pipe s at an angle point;

THENCK North 00 degrees 15 minutes 59 seconds East, 525.63 feet to a 1 inch iron pipe set at an angle point;

THENCE North 00 degrees 15 minutes 59 seconds East, 507,83 feet to a point on the southerly channel bank . Big Creek for the east most corner of the herein described 2,678,6741 acre tract;

AS PER ORIGINAL

THENCE, slong the southerity channel bank of Big Creek with its meandars: North 33 degrees 28 minutes 20 seconds West, 265.68 feet; North 33 degrees 28 minutes 20 seconds West, 174.53 feet; North 41 degrees 42 minutes 28 seconds West, 200.89 feet; North 39 degrees 58 minutes 14 seconds West, 301.87 feet; North 34 degrees 30 minutes 54 seconds West, 182.83 fort; North 25 degroes 25 minutes 40 seconds West, 261.38 fast; Norih 32 degrees 02 minutes 18 seconds West, 279.90 feet; North 30 degrees 33 minutes 39 seconds West, 260.20 feet; North 15 degrees 27 minutes 21 seconds West, 345.51 fact; North 26 dogrees 02 minutes 18 seconds West, 114.71 feet; North 36 degrees 33 minutes 54 seconds West, 77.48 feet; North 51 dogrees 32 minutes 26 seconds West, 132.74 feet; North 56 degrees 55 minutes 10 seconds West, 220.08 fort; North 65 degrees 46 minutes 53 accords West, 143.33 feet; North 73 degrees 31 subutes 05 seconds West, 120.47 feet; North 78 degrees 22 minutes 48 mounds West, 387.76 feet; North 71 degrees 23 minutes 56 seconds West, 174.06 feet; North 70 degrees 57 minutes 14 seconds West, 213.55 feet; North 76 degrees 44 minutes 40 seconds Watt, 152.96 feet; South 89 degrees 58 minutes 16 seconds West, 118.00 feet; South 77 degrees 31 minutes 18 seconds West, 285.54 feet; South 78 degrees 17 minutes 19 seconds West, 140.82 feet; South \$9 degrees 42 minutes Q3 seconds West, 180.29 feet; North 59 degrees 34 minutes 12 seconds West, 168.32 foct: South \$3 degrees 54 minutes 59 seconds West, 190.95 feet; North 55 degroes 09 minutes 59 seconds-West, 127.06 f ei: North 62 degrees 18 minutes 11 seconds West; 126.14 feet; North 45 degrees 38 minutes 28 seconds West, 218.62 feet; North 38 degroes 04 minutes 35 seconds West, 211.29 th 217 North 21 degrees 55 minutes 38 seconds West, 153,83 feet; North 15 degrees 31 minutes 37 seconds West, 147.63 feet; North 08 degrees 42 minutes 27 seconds West, 294.79 fort; North 08 degrees 20 minutes 10 seconds West, 279.04 Mit; North 18 degrees 02 minutes 43 accords East, \$4,85 fest: North 02 degrees 57 minutes 45 seconds East, \$7.26 fast; North 22 degrees 48 minutes 15 seconds East, 192.43 fast North 17 degrees 03 minutes 50 accords East, 239.35 foot North 03 degrees 22 minutes 13 seconds East, 94.32 feet; North 09 degrees 00 minutes 11 seconds West, \$3.40 feet; North 28 degrees 09 minutes 29 seconds West, 93.64 feet; North 41 degroes 01 minute 25 seconds West, 140.79 feet; North 30 degrees 53 minutes 56 seconds West, 264.23 feet; and

North 61 degrees 08 asimmus 49 seconds West, \$6.53 foot to a point on the southerdy chained of Big Creek for the north most corner of the herein described 2,678,6741 are tract, same being on the continuous line of the Philo Fairchild Survey, Abstract 24, and the E. Lippencott Langue, Abstract 51; THENCE South 41 degrees 44 minutes 36 seconds West along the common line of the E. Lippenott Leag Abstract 51, and the Philo Fairchild Survey, Abstract 24, at 5277.78 feet pass the west corner of said Philo Fairch Survey, Abstract 24, at 5277.78 feet pass the west countr of said Philo Painchild Survey, Abstract 24, same bei the north compart of the George Waters Survey, Abstract 346, same being the north corner of the R. Mords Surv Abstract 654, and continuing for a total distance of 10,415.89 feet to a spindle set for corner, said point being i west corner of the R. Mords Survey, Abstract 654, and being on the southeast line of the E. Lippencon Leag Abstract 51:

THENCE South 48 degrees 10 minutes 01 second East slong the southwest line of the R. Morris Survey, Abstr. 654, 277.50 feet to a 1, 1.44 inch iron pipe set for a 20-entry comer to the herein described 2,678.6741 acre us same boing the north corner of the Louis Wolf Survey, Abstract 540, and being on the southwest line of the Morris Survey, Abstract 654;

THENCE South 41 degrees |58 minutes 11 seconds West along the northwest line of said Louis Wolf Surv Abstract 540, as located in F.M. Highway 1994, 2643.66 feet to the <u>Place of Beginning</u> and containing 2,678.67 acres of land, more of loss.



Charles Kalls

Chatlie Kalkomey, R.P.L.S. Texas Registration No. 1399 January 3, 1996

Job No. 2080-04-FB

SAVE AND EXCEPT THE FOLLOWING DESCRIBED TRACTS.

F.M. HIGHWAY 1994 NORTHEAST

FIELD NOTES FOR A 11.96 ACRE TRACT OF LAND BEING PART OF THE R. MORRIS SURVE ABSTRACT \$54, AND THE GEORGE WATERS SURVEY, ABSTRACT 346, AND THE PHILCO FARCHIL SURVEY, ABSTRACT 24, FORT BEND COUNTY, TEXAS, SAID 11.96 ACRE TRACT BEING 50-FOC WIDE STRIP OF LAND SOUTHEAST OF THE CENTERLINE OF F.M. HIGHWAY 1994, SAID 50-FOC WIDE STRIP OF LAND BRING RECORDED IN VOLUME 344, PAGE 155, DEED RECORDS, FORT BEN COUNTY, TEXAS, WITH ALL BEARING AS SHOWN ARE GRID NORTH, BEARINGS AN COORDINATES HEREON ARE BASE UPON THE U.S.C. 26, MONUMENTATION AND THE TEXA PLAIN COORDINATES SYSTEMS NORTH AMERICAN LAMBERT PROJECTION SOUTH CENTRA ZONE, STATION FAIRCHILD, HAVING COORDINATES Y 590,551,40, X=3,029,726,75;

COMMENCING at a cotton picker spindle found at the south comes of the E. Lippencott League, Abstract 5 same being on the northeast line of the J. Mayer Survey, Abstract 559;

THENCE North 41 degrees 44 minutes 36 seconds East along the centerline of F.M. Highway 1994, 352.31 fo to a spladle set on said line for the west corner and Place of Regioning of the herein described 11.96 acre tract land; THENCE continuing North 41 degrees 44 minutes 36 seconds West along the Southeast line of the B. Lippenco Langue, Abstract 51, being the northwest line of the aforementioned R. Morels Survey, Abstract 654, the northweline of the George Waters Survey, Abstract 346, and the northwest line of the Philco Fakuhild Survey, Abstract 2some being the northwest line of the Texas Gulf Sulfur Company, 2,678.6741 acre tract of land for a distance (10,415,89 feet to a point on said line intersecting with the South Channel Bank of Big Creek for the north come of the barein deneribed 14.96 acre tract of land;

THERE I. Bouch 48 degrees 15 minutes 24 seconds East along a line establishing the northeast line of the herei described parcer of land, 50 feet to a point on the southeast right-of-way line of F.M. Highway 1994 for the car conner, of the horain described tract;

THENCE South 4) degrees 44 minutes 36 seconds West along the southeast right-of-way line of F.M. Highway 1994 for a distance of 10,415.89 feet to a point on said line intersecting with lower northeast line of the J. Maye Survey, Abstract 539, for the south corrier of the herein described tract;

THENCE North 48 degrees 15 minutes 24 seconds West establishing the southwest line of the herein describer tract, 50 feet to the Place of Beginning and containing an area of 11.96 nerves, more or less.

For reference and further description sos Survey Plat No. 2080-04-FB, prepared by the undersigned on same date

chalie Kaller Charlie Kalkomey, R.P.L.S.

Texas Registration No. 1399 Jamary 3, 1996

65 No. 2080-04-FB

J.M. HIGHWAY 1994 SOUTHWEST

FIELD NOTES FOR A 2.69 ACRE TRACT OF LAND IN THE LOUIS WOLF SURVEY, ABSTRACT 540, FORT BIND COUNTY, TEXAS, SAID 2.69 ACRE TRACT BEING PART OF THE TEXAS GULF SULFUR COMPANY, 2,674.6741 ACRE TRACT OF LAND, ALSO BEING A PART OF THAT 240.64 ACRE TRACT, RECORDED ON VOLUME 118, PAGE 498, DEED RECORDS, FORTBEND COUNTY, TEXAS, AND BEING LOCATED WITHIN THE RIGHT-OF-WAY OF F.M. HIGHWAY 1994 (100-FOOT RIGHT-OF-WAY) WITH ALL BEARINGS AS SHOWN FOR GRID NORTH, BEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON THE U.S.C.&G. MONUMENTATION AND THE TEXAS PLAIN COORDINATES SYSTEM NORTH AMERICAN LAMBERT PROJECTION SOUTH CENTRAL ZONE, STATION FAIRCHILD HAVING COORDINATES Y= 590,551,40 X=3,029,726.78;

BEGINNING at a contan picker spindle found at the west corner of the algorithmical Louis Wolf Survey, Abstract 540, for the west corner and the Pisce of Beginning of the besch described 2.69 acre tract of had, said point having coordinates X=3,038,817.5728 Y= 579,012.2319, said point also being the south corner of this adjoining J. Meyer Survey, Abstract 559, and the north corner of the adjoining H.AT.C. Railroad Company Survey, Section 67, Abstract 238, also being the cast corner of the W. Hackers Survey, Abstract 73, said point also being the west corner of the Texas Gulf Sulfur Company, 2,678.6741 acre tract of land; THENCE North 41 degrees 44 minutes 36 seconds West along the southeast line of said E. Lippencott leig being the northwest line of the J. Mayer survey abstract 559 and being the contestine of FM Highway 1994 (100 & richt-of-way) for a distance of 50 fact to a point on said line;

THUNCE South 41 degrees 15 minutes 24 seconds West 203.55 feet to a point on the centerline of the after constitution of the berein described contertine description;

THENCE North 46 degrees 47 minutes 23 seconds East along the contatine of said railroad being 120 foot wir right-of-way for a distance of 2993.58 feet to a point on said line at which point said 120 foot right-of-way ends a a 160 foot sight-of-way begins;

THENCE continuing North 46 degrees 47 minutes 23 seconds East along the centraline of said railroad the rightway being 160 wide \$975.01 feet to a point on said line at which point the 160 foot right-of-way ends and said right of-way becomes 200 foot wide;

THENCE continuing North 46 degrees 47 minutes 23 seconds East along the centerline of said railroad with t right of way being 200 feet wide 985.73 feet to a point in the centerline of said railroad intersecting with the sou channel bank of Big Creak for the termination of the herein described centerline and containing an area of 34.73 acr of land, mote or less.

For reference and further description see Survey Plat No. 2080-04-FB prepared by the undersigned on same dat



age 1: Kalling

Charite Kalkomey, R.P.L.S. Texas Registration Number 1399 Date: January 3, 1996

Job Number 2080-04-FB

TEXAS GULF SULPHUR COMPANY AND GULF PRODUCTION COMPANY TO CANE BEL' RAILROAD COMPANY (VOLUME 133, PAGE 511, DEED RECORDS, FORT BEND COUNTY, TEXAS

FIELD NOTES FOR A 1.38 ACRE TRACT OF LAND IN THE PHILCO FAIRCHILD SURVEY ABSTRAC 24, FORTBEND COUNTY, TEXAS, SAID 1.38 ACRE TBACT BEING THAT CERTAIN TRACT CONVEYED FROM TEXAS GULF SULPHUR COMPANY AND GULF PRODUCTION COMPANY TO CANE BELL RAILROAD IN DEED DATED DECEMBER 5, 1930, RECORDED IN VOLUME 133, PAGE 511, DEEL RECORDS, FORT BEND COUNTY, TEXAS, WITH ALL BEARINGS AS SHOWN HERE ARE GRID NORTH BEARINGS AND COORDINATES SHOWN HERE ARE BASED UPON U.S.C. & O MONUMENTATION AND THE TEXAS PLANE COORDINATE SYSTEM NORTH AMERICAN LAMBERT PROJECTION SOUTE CENTRAL ZONG STATION FAIRCHILD HAVING COORDINATED X-590551.40 X-3.023.726.78.

COMMENCING at a cotton picker smindle found in the centerline intersection of FM Highway 361 (100 foot right of-way) and the centerline of FM Highway 1994 being the south conter of the E. Linguiscott Linguis, Abstract 51, sour period on the northeast line of the J. Meyer Survey, Abstract 559 said spindle having coordinates Y-500899.95 X=3,040,144.16;

AND THEY CHARMENEL

THENCE North 41 degrees 44 minutes 36 seconds East along the southeast line of the aforementioned E. Lipkineot League being the lower northeast line of the 7. Meyer Survey abstract 559, the northwest line of the R. Monis Survey, abstract 559 the northwest line of the George Waters Survey abstract 346, 5490.42 feet to a point on said line being the north corner of the George Waters Survey abstract 348 and the west corner of the Phileo Fairchild Survey abstract 24, said point having coordinates of Y=584496.50 X=3043799.65;

_THENCE: South 45 degrees 06 minutes 07 seconds East along the common line of the George Waters survey and the Philes Bairchild Survey 683.84 fect to a point on the centerline of the Cane Belt Railroad;

THENCE North 46 degrees 47 minutes 23 seconds East along the centerline of said Cane Belt Railroad having a width of 160 thet 347.8 fust to a point on said line;

THENCE North 43 degrees 12 minutes 37 seconds West 80 foot to a point on the northwest right-of-way line or said Cane Belt Rollstoad for the south corner and Place of Regimning of the herein described 1.38 acre tract of land

THENCE continuing North 43 degrees 12 minutes 37 seconds west 150 feet to a point for the west corner of to herein described tract;

THENCE North 46 degrees 47 minutes 23 seconds East along the line suchlishing the northwest line of the hereis described parcel of land 400 feat to a point for the north corner of the benein described tract;

THENCE South 43 degrees 12 minutes 37 seconds East along a line establishing the northeast line of the herein described parcel of land 150 feet to a point on the northwest line of the aforementioned Cano Belt Railroad for the cost corner of the herein described tract;

THENCE South 46 degrees 47 minutes 23 seconds West along the northwest line of said Cane Belt Reilroad right of way 400 feet to the Place of Beginning and containing 1.38 acres of land, more or less.

For reference and further description see Survey Plat No. 2010-04-FB prepared by the undersigned on same data

Antis Kallo

Charlie Kalkomey, R.P.L.S. Texas Registration Number 1399 Date: January 3, 1996

Job Number 2080-04-FB

THENCE North 4) degrees 58 minutes 11 seconds Best along the northwest line of the aforementioned Louis V Survey being a northwest line of the aforementioned 2,678,6741 acce tract and the southeast line of the J. M. Survey Abstract 559, for a distance of 2,342.59 feet to a point insursecting the northeast night-of-way line of F Highway 361, for the north corner of the herein described parcel of land;

THENCE South 48 degrees 01 minute 49 seconds East along the line establishing the northeast line of the bedescribed tract, 50 fact to a point for the cast corner of the baselin described 2.69 acre tract;

THENCE South 41 degrees 58 minutes 11 seconds Wast along the line establishing the southeast line of the be described finely 2,342,39 feet to a point intersecting with the southwest line of the Louis Wolf Survey, Abstract 1 for the south comer of the herein described tract;

THENCE North 48 degrees Q1 minute 49 seconds West along the southwest line of the Louis Wolf Survey, 50 : to the Place of Beginning and containing 2.69 acres of land more or less.

For reference and further description see Survey Plat No. 2080-04-FB, prepared by the undersigned on same d.



Charles Callman

Charlie Kalkomey, R.P.L.S. Texas Registration No. 1399 January, 3, 1996

Job No. 2080-04-FB

CANE BELT RAILROAD RIGHT-OF-WAY

PIELD NOTES FOR A 34.73 ACRE TRACT OF LAND PART OF BEING IN THE J. MEYER SURVE ABSTRACT 559, PART IN THE R. MURRAY SURVEY ABSTRACT 154, PART IN THE GEORGE WATEL SURVEY ABSTRACT 346, AND PART IN FILEDCO FAIRCHILD SURVEY ABSTRACT 24 FORT BEN COUNTY TEXAS, SAID 14.73 ACRE TRACT BEING A PART OF THE TEXAS GULF SULPHUR COMPAN 2678,6741 ACRE TRACT OF LAND AND BEING THAT CERTAIN TRACT TEXAS GULF SULPHUR COMPAN 2678,6741 ACRE TRACT OF LAND AND BEING THAT CERTAIN TRACT TEXAS GULF SULPHUR COMPANY ET AL, TO CANE BELT FAILROAD COMPANY ET AL DATED JANUARY 3, 194 RECORDED IN VOLUME 231, PAGE 387, AND THAT CERTAIN DERD TEXAS GRIF SULPHU COMPANY ET AL TO CANE BELT RAILROAD COMPANY DATED MAY 19, 1930, RECORDED 1 VOLUME 131, PAGE 293, DEED RECORDS, FORT BEND COUNTY, TEXAS, WITH ALL BEARINGS A SHOWN ARE GRID NORTH, BEARINGS AND COORDENATES SHOWN HERE ON ARE BASED UPO THE U.S.C.&G MONUMENTATION OF THE TEXAS PLANE COORDENATES SYSTEM NORT AMERICAN LAMBERT PROJECTION SOUTH CENTRAL ZONE STATION PAIRCHILD HAVIN COORDINATES Y-59051.40 X=3,029,726.78.

COMMENCING at a cotton picker spintle found at the centerline intersection of FM Highway 361 (100 foot righ of-way) being the south corner of the B. Lippencott Langue, Abstract 51, same being on the northeast line of the Meyers survey, abstract 559, said spindle having coordinates Y=580.899.96 X2-5.040.144.16;

AS PER ORIGINAL

COUNTY ROAD

FIELD NOTES FOR A 4.52 ACRE TRACT OF LAND BEING PART IN THE LEWIS WOLF SURVEY ABSTRACT 540, R.L. MORRIS SURVEY, ABSTRACT 654, AND THE GEORGE WATERS SURVEY ABSTRACT 345, FORTBEND COUNTY, TEXAS, SAID 4.52 ACRE TRACT BEING A PART OF THE TEXAS GULF SULFUR COMPANY, 2,678.6741 ACRE TRACT OF LAND AND BEING THAT CERTAIN CALLET -4.52 ACRE TRACT OF LAND CONVEYED BY TEXAS GULF SULFUR COMPANY TO FORT BENI COUNTY, RECORDED IN VOLUME 433, PAGE 520, DEED RECORDS, FORT BEND COUNTY, TEXAS WITH ALL BEARINGS AS SHOWN ARE GRID NORTH, BEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON THE U.S.C.AG. MONUMENT AND THE TEXAS PLAIN COORDINATE: SYSTEMMORTHAMERICAN LAMBERT PROJECTION SOUTH CENTRAL ZONE, STATION FAIRCHILI HAVING COORDINATES Y=590,551.40 X=3,029,726.78;

COMMENCING at a control, picker spinile found at the centerline intersection of F.M. Highway 361 (100-foc right-of-way) and a control ins of F.M. Highway 1994 being the south corner of the E. Lippencott League, Abstrac 51, same being on the methodast line of the J. Mayer Survey, Abstract 559, said spindle having coordinate Y-580,899.96 X=3,040,144.16;

THENCE South 48 degrees 25 minutes 32 seconds East along the northeast line of the aforementioned adjoinin J. Meyer Survey, Abstract 559, being the centerline of County Road 361, 276.11 feet to a point of intersection wit a centerline at F.M. Highway 1994;

THENCE North 51 degrees 42 minutes 44 seconds East, 49.23 feet to a point of beginning of the herein describe centerline (being 30-foot unch side of the herein described line), said point also being in a curve to the right;

THENCE around said curve to the sight with a central angle of 14 degrees 48 minutes 37 seconds, a radius o 1,154.13 feet, a are length of 298.33 feet, a tangent of 150.00 feet, and a chord bearing North 59 degrees 36 minute 45 seconds East, 297.50 feet for a point of tangency of said curve;

TELENCE North 67 degrous 01 minute 03 seconds East, 231.17 feet to a point at the beginning of a curve to th right;

THENCE around said curve to the right with a central angle of 32 degrees 14 minutes 17 seconds, a radius o 432.71 feet, an are length of 288.78 feet, a tangent of 150.00 feet, and a chord bearing North 86 degrees 08 minute 11 seconds East, 283.45 feet to the point of tangency of said curve, _____

THENCE South 74 degrees 44 minutes 38 seconds East, 109,29 fast to a point at the beginning of a curve to the right;

THENCE around sold curve to the left of a central angle of 58 degrees 43 minutes 03 seconds, a radius of 479.9: fost, an ato length of 491.88 fost, a tangent of 270.00 flost, and a chood bearing North 75 degrees 53 minutes 5 seconds East, 470.64 feet to the point of tangency of sold curve and the beginning of a curve to fue left;

THENCE around said curve to the left with a central angle of 14 degrees 44 minutes 37 seconds, a radius of 1159.44 feet, a longth 298.34 feet, a tangent of 150 feet and a abord hearing North 39 degrees 89 minutes 59 seconds Bast 207.52 feet to a point for the tangency of said curve;

THENCE North 31 degrees 47 minutes 39 seconds East, 386.72 feet to a point at a beginning of a curve to the right

AS PER ORIGINAL

THENCE mound said curve to the right with a central sagie of 33 degrees 09 minutes 06 seconds, a radius 671.92 feet, an acclength of 388.78 feet, a tangent of 200.00 feet, and a chord bearing North 48 defices 22 minut 13 seconds East, 383.38 feet to the point of tangency of said curve;

THENCE North 64 degrees 56 minutes 46 seconds East along the centerline of the barein described description 729,88 fact to a point intrasocing with the westerly right-of-way line of Davis Estate Rost (60-fect wide) : -determination of the herein described centerline and containing as area of 4.52 scree of land, more or loss.

For reference and further description see survey Plat No. 2080-04-FB, prepared by the undersigned in same da

Charles Kaching

Charlie Kalkomey, R.P.L.S. Texas Registration No. 1399 January 3, 1996

Job No. 2080-04-FB

DAVIS ESTATE ROAD

FIELD NOTES FOR A 16.95 ACRE TRACT OF LAND BEING PART IN THE GEORGE WATERS SURVE ABSTRACT 346, AND PART IN THE 2.F. PICKENY, ABSTRACT 653, FORT BEND COUNTY, TEXA SAID 16.95 ACRE TRACT BEING A PART OF THE TEXAS GULF SULFUR COMPANY, 2,678.6741 ACI TRACT OF LAND AND BEING THAT CERTAIN TRACT CONVEYED BY GULF PRODUCTIC COMPANY, 8T AL, TO FORT BEND COUNTY, DECRMBER 14, 1929, RECORDED IN VOLUME 129, PAC 553, DEED RECORDS, FORT BEND COUNTY, TEXAS, WITH ALL BEARINGS AS SHOWN HEREON AJ ORID NORTH BEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON THE U.S.C.& MONUMENTATION AND THE TEXAS PLANE COORDINATES SYSTEM NORTH AMERICAN LAMBET PROJECTION SOUTH CENTRAL ZONE, STATION FAIRCHILD, HAVING COORDINATES Y-590,551. X=3,029,726.78;

COMMENCING at a cotton picker spindle found in the contentine of F.M. Highway 361 (100-foot night-of-we being the south corner of the R. Lippencott League, Abstract 51, same being on the northeast line of adjoint George Watters Survey, Abstract 346,

THENCE North 41 degrees 44 minutes 36 seconds East along the northwest line of the abrementioned 2,678.67 acre tract for a distance of 3,004.43 feet to a cotton picker spindle set on said line at the intersecting point of i conterline of Davis Estate Road:

THENCE South 47 degrees 55 minutes 19 seconds East along the extension of the contentine of Davis Estate Ro: 50 feet to a point on the southeast right-of-way line of P.M. Highway 1949 for the Place of Heginning of the hen described contentine description of a 60-foot wide strip of land;

THENCE South 47 degrees 55 minutes 19 seconds East along the centrifine description of the herein describ 60-foot wide strip of land being 30-foot either side of the herein described centrifine, 1,390.83 Sect to a point on su line at the beginning of a curve to the right; THENCE around said curve to the right with a central angle of 14 degrees 30 minutes 39 seconds, a radius (1,178.25 feet, an are length of 298.41 feet, a tangent of 150.00 fast, and a chord bearing South 55 degrees 1 minutes 44 seconds East, 297.61 feet to the tangency of said curve;

TERNOE South 62 degrees 38 minutes 59 seconds East along the controlline of the herein described description 395.67 fact to a 1/2 inch from pipe set for an angle point on said line;

TERNCE North \$2 degrees 50 minutes 16 seconds East, 960.58 flot to a 1/2 inch item pipe set on said line for th termination of the herein described centerline description.

For reference and further description see Servey Plat No. 2080-04-FB, prepared by the undersigned on some date

Charles Kalkanay

Charlie Kalkomsy, R.P.L.S. Texas Registration No. 1399 January, 3, 1996

Job No. 2080-04



EXHIBIT B

DESCRIPTION OF OMITTED TRACTS

EHELD NOTES FOR A 34.73 ACRE TRACT OF LAND PART OF BEING IN THE J. MEYER SURVEY ABSTRACT 559, PART IN THE R. MURRAY SURVEY ABSTRACT 854, PART IN THE GEORGE WATERS SURVEY ABSTRACT 346, AND PART IN FILEDCO FAIRCHILD SURVEY ABSTRACT 24 FORT BEND COUNTY TEXAS, SAID 34.73 ACRE TRACT, BEING A PART OF THE TEXAS GULF SULPHUR COMPANY 2678.6741 ACRE TRACT, OF LAND AND BEING THAT CERTAIN TRACT TEXAS GULF SULPHUR COMPANY ET AL, TO CANE BELT RAILROAD COMPANY ET AL DATED JANUARY 3, 1945, RECORDED IN VOLUME 231, PAGE 387, AND THAT CERTAIN DEED TEXAS GULF SULPHUR COMPANY ET AL TO CANE BELT RAILROAD COMPANY DATED MAY 19, 1930, RECORDED IN VOLUME 131, PAGE 293, DEED RECORDS, FORT BEND COUNTY, TEXAS, WITH ALL BEARINGS AS SHOWN ARE GRID NORTH, BEARINGS AND COORDINATES, SHOWN, HEREON ARE BASED UPON THE U.S.C.&G MONUMENTATION OF THE TEXAS PLANE COORDINATES SYSTEM NORTH AMERICAN LAMBERT PROJECTION SOUTH CENTRAL ZONE STATION FAIRCHILD HAVING COORDINATES Y=59051.40 X=3,029,726.78.

COMMENCING at a cotton picker spindle found at the centerline intersection of FM Highway 361 (100 foot right-of-way) being the south corner of the E. Lippencott League, Abstract 51, same being on the northeast line of the J. Meyers survey, abstract 559, said spindle having coordinates Y=580,899.96 X=3,040.444.16:

THENCE North 41 degrees 44 minutes 36 seconds West along the southeast line of said E. Lippencott league being the northwest line of the J.Meyer survey abstract 559 and being the centerline of FM Highway 1994 (100 foot right-of-way) for a distance of 50 feet to a point on said line;

THENCE South 48 degrees 15 minutes 24 seconds West 203/55 feet to a point on the centerline of the aforementioned Cane Belt Railroad for the Place of Beginning of the herein described centerline description;

THENCE North 46 degrees 47 minutes 23 seconds East along the centerline of said railroad being 120 foot wide right-of-way for a distance of 2993.58 feet to a point-on said line at which point said 120 foot right-of-way ends and a 160 foot right-of-way begins;

THENCE continuing North 46 degrees 47 minutes 23 seconds East along the centerline of said railroad the right-of-way being 160 wide 5979.01 feet to a point on said line at which point the 160 foot right-of-way ends and said right-of-way becomes 200 foot wide;

THENCE continuing North 46 degrees 47 minutes 23 seconds East along the centerline of said railroad with the right-of-way being 200 feet wide 985.23 feet to a point in the centerline of said railroad intersection with the south channel bank of Big Creek for the termination of the herein described centerline and containing an area of 34.73 acres of land, more or less.

HOU03:1071982.2

For reference and further description see Survey Plat No. 2080-04-FB prepared by Charlie Katkomey on January 3, 1996.

.FEXAS)GULF SULPHUR COMPANY AND GULF PRODUCTION COMPANY TO CANE BELT RAILROAD COMPANY (VOLUME 133, PAGE 511, DEED RECORDS, FORT BEND COUNTY, TEXAS).

FIELD NOTES. FOR A 1.38 ACRE TRACT OF LAND IN THE PHILCO FAIRCHILD SURVEY ABSTRACT 24, FORT BEND COUNTY, TEXAS, SAID 1.38 ACRE TRACT BEING THAT. CERTAIN TRACT CONVEYED FROM TEXAS GULF SULPHUR COMPANY AND GULF PRODUCTION COMPANY TO CANE BELT RAILROAD IN DEED DATED DECEMBER 5, 1930, RECORDED IN VOLUME 133, PAGE 511, DEED RECORDS, FORT BEND COUNTY, TEXAS, WITH ALL BEARINGS AS SHOWN HERE ARE GRID NORTH BEARINGS AND COORDINATES SHOWN HERE ARE BASED UPON U.S.C. & G MONUMENTATION AND THE TEXAS PLANE COORDINATES SYSTEM NORTH AMERICAN LAMBERT PROJECTION SOUTH CENTRAL ZONE STATION FAIRCHILD HAVING COORDINATED Y=590551.40 X=3,029,726.78.

COMMENCING at a cotton picker spindle found in the centerline Intersection of FM Highway 361 (100 foot right-of-way) and the centerline of FM Highway 1994 being the south corner of the E. Lippencott League, Abstract 51, same being on the northeast line of the J. Meyer Survey, Abstract 559 said spindle having coordinates Y=580899.95 X=3,040,144.16;

THENCE North 41 degrees 44 princips 36 seconds East along the southeast line of the aforementioned E. Lipkincot League being the lower northeast line of the J. Meyer Survey abstract 559, the northwest line of the R. Morris Survey, abstract 559 the northwest line of the George Waters Survey abstract 346 5490.42 feet to a point on said line being the north corner of the George Waters Survey abstract 348 and the west corner of the Philco Fairchild Survey abstract 24, said point having coordinates of Y=584496.50 X=3043799.65;

THENCE South 48 degrees 06 minutes 07 seconds East along the common line of the George Waters survey and the Philco Fairchild Survey 683.84 feet to a point on the centerline of the Cane Belt Railroad;

THENCE North 46 degrees 47 minutes 23 seconds East along the centerline of said Cane Belt Railroad having a width of 160 feet 347.8 feet to a point on said line;

THENCE North 43 degrees 12 minutes 27 seconds West 80 foot to a point on the northwest right-of-way line of said Cane Belt Railroad for the south corner and Place of Beginning of the herein described 1.38 acre tract of land;

THENCE continuing North 43 degrees 12 minutes 37 seconds west 150 feet to a point for the west corner of the herein described tract;

THENCE North 46 degrees 27 minutes 23 seconds East along the line establishing the northwest line of the herein described parcel of land 400 feet to a point for the north corner of the herein described tract;

SV CTT

HOU03:1071982.2

THENCE South 43 degrees 12 minutes 37 seconds East along a line establishing the northeast line of the herein described parcel of land 150 feet to a point on the northwest line of the aforementioned Cane Belt Railroad for the east corner of the herein described tract;

THENCE South 46 degrees 47 minutes 23 seconds West along the northwest line of said Cane Belt Railroad right-of-way 400 feet to the Place of Beginning and containing 1.38 acres of land, more or less.

For reference and further description see Survey Plat No. 2080-04-FB prepared by Charlie Kalkomey, R.P.L.S. on January 3, 1996.

HOU03:1071982.2

EXHIBIT B

The following restrictive covenants of record itemized below

Fort Bend County Clerk's File Nots). 9681121 and 2001088254.

Deleting any unlewful discriminatory provisions based on race, color religion, sex, handicap, familial status or national origin.

Standby fees, taxes and assessments by any taxing authority for the year 2004, and subsequent years.

2.

- 3 Right-of-way easement for the construction, maintenance and operations of railroad trackage, slong, and across subject property, granted to The Cane Belt Railroad Company and Texas and New Orleans Railroad Company by instrument recorded in Volume 23 h-Page 387 of the Deed Records of Fort Bend County, Texas, with the exact location of said easement as shown on the map marked Exhibit "A" attached to said instrument.
- Y Right-of-way easement 60 feet in width for ingress and egress traversing subject tract, granted to Fort Bend County, Takes by instrument recorded in Volume 129, page 553 of the Deed Records of Fort Bend County, Texas.
- Flight-of-way and easement 60 feet in width for ingress and egress along the westerly and northwesterly portion of subject tract, granted to Fort Bend County by instrument recorded in Volume 433, Page 520 of the Deed Records of Fort Bend County, Texes.
- An easement and right-of-way for electric transmission and distribution line(s) together with the right of ingress and egress along the northwesterly portion of subject tract, granted to Houston Lighting & Pewer Comparity by instrument recorded in Volume 588, Page 628 of the Deed Records of Fort Bend County, Texas.
- 7 A right-of-way easement for the purpose of constructing one pipeline, not to exceed two inches located along the westerly side of subject-tract, granted to Hamby Consultant, Inc., by instrument recorded in Volume, 1041, Page 531, of the Deed Records of Fort Bend County, Texas.
- A 25 foot by 30 foot surface easement located along the northerly portion of subject tract, granted to Houston pipe Line Company by instrument recorded in Volume 1876, Page 726 of the Official Records of Fort Bend County, Texas, and amended in Volume 1898, Page 309 of the Official Records of Fort Bend County, Texas.

9 Right-of-way easement 90 feet in width located along the northeasterly side of subject tract, granted to Fort Bend County Drainage District by instrument recorded in Volume 323, page 230 of the Deed Records of Fort Bend County, Texas.

- - A 60 foot light-of-way along the north portion of subject tract granted to Fort Bend County, Texas by instrument recorded in Volume 72, Page 447 of the Deed Records of Fort Bend County, Texas, also as shown on the preliminary survey dated January 3, 1996, to be 50 feet in width, prepared by Charlie Kalkomey registered public surveyor Na, 1399.
 - Pipe line right-pr-way 20 feet in width located along the southerly portion of subject tract, granted to Houston Pipe Line Co. by instrument recorded in Volume 452, page 167 of the Deed Records of Fort Bend County, Texas.
- 13 Grantors/reserve unto themselves the free and uninterrupted use for passage over and across the south 1/2 of the right-of-way said Davis Estate Road located along the southerly side of Subject tract as set forth in instrument recorded in Volume 525, Page 282 of the Deed Records of Fort Bend County, Texas.
- 14 1/16th of all oil, gas and other minerals, the toyalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 142, Page 31 of the Deed Records of Fort Bend County, Texes. Title to said interest not checked subsequent to date of aforesaid instrument.
- A 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 142; Page 31, of the Deed Records of Fort Bend County, Texas. Title to said interest net checked subsequent to date of aforesaid instrument.
- 11. A 1/24th royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 142, Page 31, of the Deed Records of Fort Bend County, Texes. Title to said interest not checked subsequent to date of aforesaid instrument.
- 17A 7/128th royalty interest in all oil, gas and other minerals, the foyalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 118, Page 498, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforeseid instrument.
- 18 A 1/16th royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 116, Page 337, of the Deed Records of Fout Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.

19 1/16th of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in Instrument recorded in Volume 108, Page 221 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.

40 A 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 108, Page 221, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforeseid instrument.

- 21 A 1/24 th covalty interest in all oil, gas and other minerels, the royalties, bonuses, centrals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 108, Page 221, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 1/4th of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 142, Page 34 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 23 An undivided T/Stir, interest of an undivided 3/10th interest in to all the sulphur conveyed to Texas Gulf Sulphur Co. by instrument recorded in Volume 153, Page 63, of the Deed Records of Fort Bend County, Texas.
- 9% A 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 103-Page 363, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- AS 1/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 103, Page 365 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to/date of aforesaid instrument.
- ²⁴ Undivided 3/40th sulphur fee and 1/32nd of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 1896, Page 1983 and Volume 2595, Page 1889 of the Deed Records of Fort-Bend County, Texas. Title to said interest not checked subsequent to date of sfore-sid instrument.
- A 29.73 1/3% of 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 753, Page 511, Volume 754, Page 633 and Volume 754, Page 637, all of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of atgressid instrument.
- 2400% of 1/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 760, Page 375 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to sate of aforesaid instrument.

- .29.1000% of 1/2 of all oil, gas and other minarals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 782, Page 351 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- .30.2400% of 1/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 883, Page 892 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 3 A 176 the of 1/32nd royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 1160, Page 592, of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 11/2 of all oil, gas and other minerals, the royaities, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume-104, Page(s) 61 & 63 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 33 1/4th of 1/2 of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 108, Page 223 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 31 1/16th of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 114, Page 297 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.
- 35 An undivided 3/10th interest in and to all of the sulphur conveyed to the Federal Royalty Co. by instrument recorded in Volume 114, Page 475 of the Deed Records of Fort Bend County, Texas.
- 36 An undivided 1/5th and an undivided 3/10th interest in and to all of the sulphur conveyed to the Freeport Sulphur Co. by instrument recorded in Volume 115, Page 327 of the Deed Records of Fort Bend County; Texas.
- 37 An undivided 1/20th interest in and to all the sulphur and 1/32rd of all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Valume 156, Page 498 of the Deed Records of Fort Bend County, Texas. This to said interest not checked subsequent to date of aforesaid instrument.
- An undivided 1/2 sulphur royalty Interest in all oil, gas and other minarats, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 275, Page 638, of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.

31 1/20th in and to all of the sulphur royalty interest in all oil, gas and other minerals, the royalties, bonuses, rentals and all other rights in connection with same are excepted herefrom as set forth in instrument recorded in Volume 348, Page 548 of the Deed Records of Fort Bend County, Texas. Title to said interest not checked subsequent to date of aforesaid instrument.

4. Mineral Deed date January 1, 1987 as set forth in instrument recorded under Volume 1894, Page 1824 of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to the aforesaid instrument.

A Mineral Deed date June 1, 1987 as set forth in instrument recorded under Volume 1956, Page 2097 of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to the aforesaid instrument.

Waiver of surface rights contained therein.

- V3 Mineral Deed date February 27, 1992 as set forth in instrument recorded under Volume 2384, Page 1968 of the Official Records of Fort Bend County, Texas. Title to said interest not checked subsequent to the aforesaid instrument.
- Terms, conditione and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 99, Page 600 of the Deed Records of Fort Bend County, Texas.
- Terms, conditions and stipulations contained in Oli, Gas and Mineral Lease recorded in Volume 103, Page 117 of the Deed Records of Fort Bend County, Texas.
- * Terms, conditions and stipulations contained in Qil, Gas and Mineral Lease recorded in Volume 104, Page 117 of the Deed Records of Fort Bend County, Texas.
- 17 Terms, conditions and stipulations contained in <u>Qil. Gas</u> and <u>Mineral Lease recorded</u> in Volume 922, Page 34 of the Deed Records of Fort Bend County, Texas.
- Forms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 907, Page 369 of the Deed Records of Fort Bend County, Texas.

49 Terms, conditions and stipulations contained in Oil, Gas and Minerel Lease recorded in Volume 998, Page 361 of the Deed Records of Fort Bend County, Texas.

- 50 Terms, conditions and stipulations contained in Oil, Sas and Mineral Lease recorded in Volume 917, Page 272 of the Deed Records of Fort Bend County, Texas.
- SI Terms, conditions and stipulations contained in Oil, Gas and Mineral Lesse recorded in Volume 1208, Page 401 of the Official Records of Fort Bend County, Texas.

Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1557, Page 73 of the Official Records of Fort Bend County, Texas.

S Terms, conditions and stipulations contained in Oil, Gas and Mineral Leafe Vecorder in Volume 1557, Page 78 of the Official Records of Fort Bend County, Taxas, Aug. SH Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1557, Page 83 of the Official Records of Fort Bend County, Texas.

55 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1591, Page 157 of the Official Records of Fort Bend County, Texas.

Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded __in_Volume 1663, Page 144 of the Official Records of Fort Bend County, Texas.

7 Terms, conditions and stipulations contained in Oil, Gas and Mineral Lease recorded in Volume 1980, Page 2405 of the Official Records of Fort Bend County, Texas.

Subject to that particular Drill Site Designation Agreement as set out in instrument dated October 15, 1997, recorded under Fort Bend County Clerk's File No. 9771205.

A conveyance of railcoad tracks located along the northwesterly portion of subject tract, granted to the Cane Belt Railroad Company by instrument recorded in Volume 131, Page 293 of the Deed Records of Fort Bend County, Texas, and conveyed to the Gulf Colorado and Santa Fe Railroad Company by Deed recorded in Volume 262, Page 68 of the Deed Records of Fort Bend County, Texas.

- 60 Rights of the Public in general in and to that portion of the subject property that lies within the boundaries of publically dedicated roadway, as set forth in instrument(s) recorded in Volume 344, Page(s) 153, 155, 158 and 160 of the Deed Records of Fort Bend County, Texas.
- 6) Terms, conditions and stipulations of that certain Industrial Solid Waste Disposal site across subject tract as set forth in instrument recorded in Volume 1158, Page 332 of the Official Records of Fort Bend County, Texas.
- 62 Terms, conditions and stipulations of that <u>certain</u> boundary agreement along the west side of subject tract as set forth in instrument recorded in Volume 271, Page 603 of the Deed Records of Fort Bend County, Taxes.
- Terms, conditions and stipulations of that pertain solid waste disposal site as set forth in instrument recorded in Volume 731, Page 485 of the Deed Records of Fort Bend County, Texas.

GY Terms, conditions and stipulations of that certain Long Point Industrial Solid Waste Certification of Conditions as set forth in instrument recorded under Fort Bend County Clerk's File No. 9681121.

Rights of tenants in possession under unrecorded leases and/or rental agreements.

AS PER ORIGINAL

FILED AND RECORDED

OFFICIAL PUBLIC RECORDS

2006 Jul 31 02:42 PM 2006092081 KW \$109.00 Dianne Wijson, Ph.D. COUNTY CLERK

FT BEND COUNTY TEXAS

2012149720 ELECTRONICALLY RECORDED Official Public Records 12/31/2012 4:25 PM



Hullan Dianne Wilson, County Clerk Fort Bend County Texas Pages: 7 Fee: \$39.00

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

1912 725 708 SPECIAL WARRANTY DEED

THE STATE OF TEXAS § COUNTY OF FORT BEND §

KNOW ALL MEN BY THESE PRESENTS THAT:

FORT BEND REGIONAL LANDFILL, L.P., a Texas limited partnership (hereinafter called "<u>Grantor</u>"), for and in consideration of the sum of Ten Dollars (\$10.00) and other valuable consideration paid to Grantor by WILLIAM E. SUTTON, an individual (hereinafter called "<u>Grantee</u>"), the receipt and sufficiency of which are hereby acknowledged, does hereby GRANT, SELL, CONVEY, ASSIGN and DELIVER to Grantee the real property described in <u>Exhibit A</u> attached hereto and made a part hereof, together with Grantor's right, title and interest, if any, to: (i) all improvements, fixtures and appurtenances situated thereon; and (ii) any adjacent streets, alleys and rights-of-way (collectively, the "<u>Property</u>").

This Special Warranty Deed and the conveyance hereinabove set forth is executed by Grantor and accepted by Grantee subject to (i) all easements, restrictions, reservations and covenants now of record, (ii) all matters that a current, accurate survey of the Property would show, (iii) the matters described in Exhibit B hereto and incorporated herein by this reference, to the extent the same are validly existing and applicable to the Property, (iv) the Pipeline Easement (defined below), and (iv) the covenant, running with the Property, that the Property shall never be used as, or in connection with, a landfill, transfer station, recycling or other waste services business (hereinafter referred to collectively as the "Permitted Exceptions").

Grantor hereby reserves and excludes from the conveyance hereunder for the benefit of Grantor and Grantor's successors and assigns forever all of the oil, gas and other minerals in, on, under and that may be produced from the Property including the right to pool or unitize the Property or portions thereof with other lands for the purpose of exploration, production and development of oil, gas and other minerals.

Grantor further hereby reserves for the benefit of Grantor and Grantor's successors and assigns forever a right of way and easement (the "<u>Pipeline Easement</u>") on, over and under the Property, for the purposes and on the terms set forth in that certain Pipeline Easement Agreement of even date herewith, by and between Grantee and Grantor, said Pipeline Easement being more particularly identified and described in <u>Exhibit C</u> attached hereto and made a part hereof.

Grantee acknowledges that it has independently and personally inspected the Property. NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THIS SPECIAL WARRANTY DEED, IT IS UNDERSTOOD AND AGREED BY GRANTEE BY ITS ACCEPTANCE OF THIS SPECIAL WARRANTY DEED THAT THE PROPERTY IS BEING SOLD AND CONVEYED HEREUNDER "AS IS" WITH ANY

US 1677686v.2

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN **REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS:** YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

1912725708 SPECIAL WARRANTY DEED

§

THE STATE OF TEXAS § COUNTY OF FORT BEND §

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FORT BEND REGIONAL LANDFILL, L.P., a Texas limited partnership (hereinafter called "Grantor"), for and in consideration of the sum of Ten Dollars (\$10.00) and other valuable consideration paid to Grantor by WILLIAM E. SUTTON, an individual (hereinafter called "Grantee"), the receipt and sufficiency of which are hereby acknowledged, does hereby GRANT, SELL, CONVEY, ASSIGN and DELIVER to Grantee the real property described in Exhibit A attached hereto and made a part hereof, together with Grantor's right, title and interest, if any, to: (i) all improvements, fixtures and appurtenances situated thereon; and (ii) any adjacent streets, alleys and rights-of-way (collectively, the "Property").

This Special Warranty Deed and the conveyance hereinabove set forth is executed by Grantor and accepted by Grantee subject to (i) all easements, restrictions, reservations and covenants now of record, (ii) all matters that a current, accurate survey of the Property would show, (iii) the matters described in Exhibit B hereto and incorporated herein by this reference, to the extent the same are validly existing and applicable to the Property, (iv) the Pipeline Easement (defined below), and (iv) the covenant, running with the Property, that the Property shall never be used as, or in connection with, a landfill, transfer station, recycling or other waste services business (hereinafter referred to collectively as the "Permitted Exceptions").

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Grantor further hereby reserves for the benefit of Grantor and Grantor's successors and assigns forever a right of way and easement (the "Pipeline Easement") on, over and under the Property, for the purposes and on the terms set forth in that certain Pipeline Easement Agreement of even date herewith, by and between Grantee and Grantor, said Pipeline Easement being more particularly identified and described in Exhibit C attached hereto and made a part hereof.

Grantee acknowledges that it has independently and personally inspected the Property. NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THIS SPECIAL WARRANTY DEED, IT IS UNDERSTOOD AND AGREED BY GRANTEE BY ITS ACCEPTANCE OF THIS SPECIAL WARRANTY DEED THAT THE PROPERTY IS BEING SOLD AND CONVEYED HEREUNDER "AS IS" WITH ANY

AND ALL FAULTS AND LATENT AND PATENT DEFECTS, WITHOUT ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY EXCEPT AS EXPRESSLY SET FORTH HEREIN AND IN THAT EXCHANGE AGREEMENT DATED SEPTEMBER 14, 2012, BY AND BETWEEN GRANTOR AND GRANTEE (THE "CONTRACT"). GRANTOR HAS NOT MADE AND DOES NOT HEREBY MAKE AND HEREBY SPECIFICALLY DISCLAIMS (EXCEPT AS EXPRESSLY SET FORTH IN THE CONTRACT) ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND OR CHARACTER WHATSOEVER, EXPRESS OR IMPLIED, WITH RESPECT TO THE PROPERTY (OTHER THAN AS CONTAINED HEREIN), ITS CONDITION (INCLUDING WITHOUT LIMITATION ANY REPRESENTATION OR WARRANTY **OUALITY** CONSTRUCTION, STATE OF REGARDING OF REPAIR. WORKMANSHIP, MERCHANTABILITY, SUITABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE), ITS COMPLIANCE WITH ENVIRONMENTAL LAWS OR OTHER LAWS, AVAILABILITY OF ACCESS, INGRESS OR EGRESS, INCOME TO BE DERIVED THEREFROM OR EXPENSES TO BE INCURRED WITH RESPECT THERETO, THE OBLIGATIONS, RESPONSIBILITIES OR LIABILITIES OF THE OWNER THEREOF, OR ANY OTHER MATTER OR THING RELATING TO OR AFFECTING THE PROPERTY, AND GRANTOR HEREBY DISCLAIMS AND **RENOUNCES ANY OTHER REPRESENTATION OR WARRANTY.**

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereunto in anywise belonging, unto Grantee, its successors and assigns, forever, and Grantor does hereby bind itself and its successors and assigns to warrant and forever defend all and singular the Property unto Grantee, its successors and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof by, through or under Grantor, but not otherwise, subject to the Permitted Encumbrances.

Grantee hereby assumes the payment of current ad valorem taxes on the herein described Property and for subsequent years. Grantee's address is: 16317 Davis Estate Road, Needville, Texas 77461.

[Remainder of page intentionally left blank]

William E. Sutton 16317 Davis Estate Road Needwille, TX 77461

IN WITNESS WHEREOF, this Special Warranty Deed is executed by Grantor as of the $\partial 6^{\prime h}$ day of December, 2012.

GRANTOR:

FORT BEND REGIONAL LANDFILL, L.P., a Texas limited partnership

WCA Texas Management General, Inc., a By: Delaware corporation, its general partner

By:

Michael A. Roy, Vice President

THE STATE OF TEXAS § § § COUNTY OF HARRIS

This instrument was acknowledged before me on the $26^{\prime\prime}$ day of December, 2012, by Michael A. Roy, Vice President of WCA Texas Management General, Inc., a Delaware corporation and the general partner of Fort Bend Regional Landfill, L.P., a Texas limited partnership, on behalf of said corporation and limited partnership.

NOTARY PUBLIC, State of Texas

CHRISTY CAVANAUGH WILLIAMS Notary Public, State of Texas My Commission Expires October 27, 2015

EXHIBIT A

Description of the Property

Being a 20.572 acre tract in the T.F. Pinckney Survey, A-655, Fort Bend County, Texas and comprising part of that 2,678.6741 acre tract conveyed by Long Point Partners, LP to Waste Services of Texas, Inc. and recorded in Fort Bend County Official Public Records 2004021722 (Waste Services of Texas, Inc. as per merger agreement (FBCOPR 200481536) is known as Fort Bend Regional Landfill, LP). The 20.572 acre tract more particularly described by metes and bounds description as follows;

COMMENCING at a one inch iron pipe found on the Southerly line of the T. F. Pinckney Survey, A-665 at the most Northerly corner of the H. Boeck Survey, A-699 and the most Westerly corner of the Christian Schwartz Survey, A-632.

Thence N 40°40'21" E along the common line of the Pinckney and Schwartz Surveys a distance of 270.61 feet to a one inch iron pipe (N 13,699,752.19 E 3,021,587.50) found for the most Southerly corner of this 20.572 acre tract and the POINT OF BEGINNING and from which a 6" wood post bears 0.3' S and 1.0' W.

Thence N 43°06'04" W along a barb wire fence a distance of 1535.36 feet to a 5/8 inch iron rod with cap set for a point for corner.

Thence N 01°57'51" W a distance of 34.42 feet to a PK nail set for a point for corner in the centerline of Davis Estate Road and from which a 1/2 inch iron pipe bears N 01°57'51" W – 40.30'.

Thence S 62°38'08" E (Call S 62°38'59" E) along the centerline of Davis Estate Road a distance of 395.67 feet to a bent 1/2 inch iron pipe found for a point for corner.

Thence N 82°51'07" E (Call N 82°50'16" E) along the centerline of Davis Estate Road a distance of 960.60 feet (Call 960.58') to a 1/2 inch iron pipe found for a point for corner.

Thence S 48°10'28" E (Call S 48°11'45" E); along a Northeasterly line of said 2,678.6741 acre tract; passing at 38.5 feet a 5/8 inch iron rod found on line, passing at 46.35 feet a 1/2 inch iron pipe found on line; for a total distance of 539.58 feet (Call 539.60') to a one inch iron pipe found for the most easterly corner of this 20.572 acre tract and from which a 6" wood post bears 0.9' S & 1.0' W.

Thence S 41°49'51" W (Call S 41°48'16" W) along the common lines of the Pinckney and Schwartz Surveys a distance of 984.11 feet (Call 983.97') to the POINT OF BEGINNING.

BEARINGS AND COORDINATES BASED ON TEXAS COORDINATE SYSTEM – NAD 83 CORS96 (EPOCH 2002.0000)

EXHIBIT B

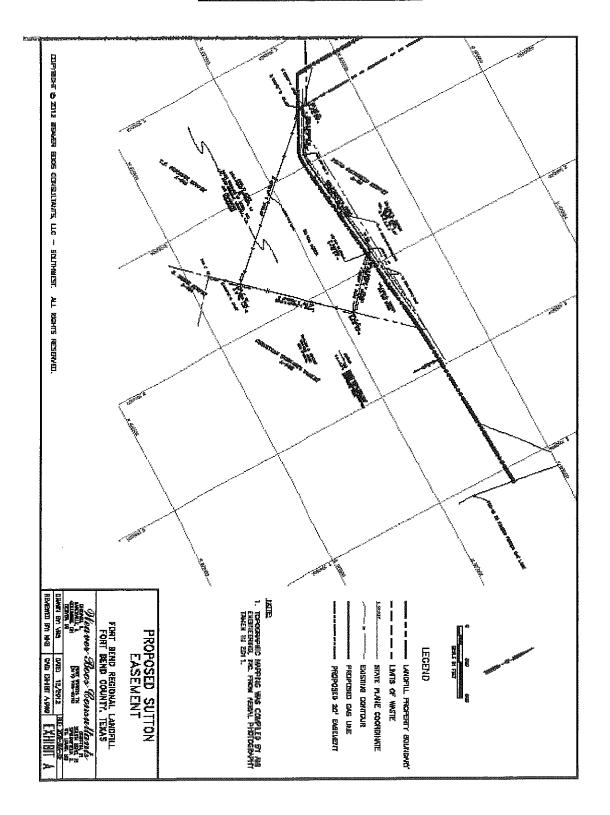
Permitted Exceptions

- 1. Taxes and assessments for the year 2012 and subsequent years.
- 2. Restrictive covenants filed for record under Fort Bend County Clerk's File No. 9681121 and 2001088254.
- 3. Right-of-way easement 60 feet in width for ingress and egress traversing subject property as granted to Fort Bend County, Texas set forth in instrument recorded in Volume 129, Page 553, of the Deed Records of Fort Bend County, Texas.
- 4. Grantor's reserve unto themselves the free and uninterrupted use for passage over and across the south 1/2 of the right-of-way said Davis Estate Road located along the southerly side of subject tract set forth in instrument recorded in Volume 525, Page 282, of the Deed Records of Fort Bend County, Texas.
- 5. Pipe line right-of-way 20 feet in width located along the southerly portion of subject property granted to Houston Pipe Line Co. by instrument recorded in Volume 452, Page 167, of the Deed Records of Fort Bend County, Texas.
- 6. Terms, conditions and stipulations of that certain Industrial Solid Waste Disposal Site across subject tract as set forth in instrument recorded in Volume 1158, Page 332, of the Official Records of Fort Bend County, Texas.
- 7. Terms, conditions and stipulations of that certain Lone Point Industrial Solid Waste Certification of Conditions as set forth in instrument recorded under Fort Bend County Clerk's File No. 9681121.
- 8. A 1/16th royalty interest in and to all of the oil, gas, and other minerals in, on, under or that may be produced from the subject property, as set forth in an instrument of record in Volume 116, Page 337, of the Deed Records of Fort Bend County, Texas.
- 9. A 29.73% of 1/3% of 1/32nd royalty interest in and to all of the oil, gas, and other minerals in, on, under or that may be produced from the subject property, as set forth in an instrument of record in Volume 753, Page 511, of the Deed Records of Fort Bend County, Texas.
- 10. 1/64th of the oil, gas and other minerals, the royalties, bonuses, rentals, and all other rights in connection with the same, as the same are set forth in an instrument recorded in Volume 1160, Page 592, of the Deed Records of Fort Bend County, Texas.
- 11. Conveyance of oil, gas and mineral interests and related rights and properties, set forth in an instrument filed for record in Volume 1956, Page 2097 of the Official Records of Fort Bend County, Texas.

- 12. Terms, conditions and stipulations contained in that certain Oil & Gas Lease dated November 21, 1923, between Geo. Hamman et al, Lessor and Pathfinder Oil Co., Lessee recorded in Volume 90, Page 600, Deed Records of Fort Bend County, Texas. By instrument recorded in Volume 103, Page 208 of the Deed Records of Fort Bend County, Texas, Pathfinder Oil Co. assigned said lease to Gulf Production Company. Subject to terms and conditions contained in those certain Agreements recorded in recorded in Volume 130, Page 200 and Volume 131, Page 77, of the Deed Records of Fort Bend County, Texas. Subject to the terms and conditions contained in Contract recorded in Volume 282, Page 272 of the Deed Records of Fort Bend County, Texas.
- 13. Terms, conditions and stipulations contained in that certain Oil & Gas Lease dated February 4, 1980, between Gulf Oil Corporation, Lessor and Petro-Lewis Corporation Lessee recorded in Volume 885, Page 826, Deed Records of Fort Bend County, Texas. Said lease amended by instruments recorded in Volume 898, Page 92 and Volume 930, Page 814 of the Deed Records of Fort Bend County, Texas.
- 14. Terms, conditions and stipulations as to that certain Drill Site Designation Agreement set forth in instrument filed for record under Fort Bend County Clerk's File No. 9771205.

EXHIBIT C

Description of Pipeline Easement



1.1

- i -





INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT I.F.2

Property Survey

COUNTY TEXAS FORT BEND CALLED 747 AC. Ε. LIPPENCOTT LEAGUE A - 51 BESSIE M ATKINS AMES B. HARRISON CALLED 492.1099 AC. VOL.2003, PG. 510 O. R. F.B.C.T. P.O. BOX 1133 RICHMOND,TX 7740 I ST TRACT P.O. BOX 690 RICHMOND, TX. 77406 124.95 AC. F. M. HWY. 1994 (100' R.O.W.) P.O.C. (43) 50' ROAD ROW. VOL. 72, PS. 447 DR. K.B. C. ADDITIONAL 50' MOK RO.W. VOL 334, PG. 155 D.R. R.B. C. N. 46947'23"-7,733.69 S.41º44 36"W. N.43°12'37 W (40) 10. 1/2 LP. 20.00 N.46º47'23"E. 5,983.28 N.46947'23"E L. B. P. CO. CALLED 33. AC. EASEMENT VOL. 500 , PS. 528 , D.A.F. B.C.T. (35) 386.56 386.56 47°49'52"E 26.49 AC 47049 52 5,970.34' S.46°47'23"W. CANE BELT R.R. (T. & N.O. R.R.) 33.65 AC. FEE STRIP VOL. 131, PG 293 VOL. 262, PG 68 D.R.F.B.CT. P.O.B. 5+47.09 32 N.08°20'10"W. 232.44 20.00 N.43º12'37 919.11 3 08"42'27"W m ∆= 14°30'44" } S.46947'23 w R=1,148.25 L=290.83 TEXAS GULF SULPHUR CO. CALLED 300 AC. (IST TR.) VOL. 116, PG. 337 D.R.F.B.C.T. ND. 1/2 DANIEL R. BOOTH CALLED 678,317 AC. VOL 2249, PG. 2014 O.R.F.B.C.T T= 146.20' CH= 5.55°06'07"E. ND 1/2 3 NOTE CANE BELT R.R. SUCCESSOR, BURLINGTON NORTHERN R.R. 920 S.E. QUINCY P.D. BOX 1068 RICHMOND, TX. 77406 290.06 TOPEKA, KS. 66612-1116 20 GEORGE WATERS SURVEY BIG A - 346 DAVIS 2 ND TRACT CREEK TEXAS GULF SULPHUR CO. CALLED 495.7 AC. (6TH TR.) VOL. 116, PG. 337 D.R.F.B.C.T. (\mathbf{B}) 1.194.88 AC. ES. TATE (10) VOL 29 TEXAS GULF SULPHUR CO. CALLED 676.25 AC. (4 TH TR.) VOL 116, PG.337 D.R.F.B.C.T. ROAD 8 PCS PHOSPHATE CO. INC. (formerly TEXASGULF INC.) P. O. BOX 600 BOLING, TEXAS 77420 3 60 R.O. ≯ \square .9 T. F. PINCKNEY SURVEY 3,5 A - 655 I. DP BIG CREEK MEANDERS 772 III.G CREEK MEANDER 1. N. 33* 28* 20* W., 265.68* 2. N. 33* 28* 20* W., 174.53* 3. N. 41* 42* 28* W., 200.89* 4. N. 39* 58* 14* W., 301.87* 5. N. 34* 30* 54* W., 182.83* 6. N. 26* 25* 40* W., 261.38* FND. 1"1.P. -0 23/22 80 SURVEY PHILO FAIRCHILD 6. N. 26' 25' 40" W. 261.38" 7. N. 32" 02' 18" W. 279.90' 8. N. 30' 35' 39" W. 260.10' 9. N. 15' 27' 21" W. 345.51' 10. N. 26' 02' 18" W. 114 71' 11. N. 36" 33' 54" W. 77.48' 12. N. 51" 32' 26" W. 132.74' 13. N. 56' 55' 10" W. 132.74' 14. N. 65' 46' 53" 10" W. 132.74' 14. N. 65' 46' 53" 10" W. 132.74' 012028 A - 24 TEXAS GULF SULPHER CO. CALLED 539 AC. (5TH TR.) VOL. 116, PG. 337 D.R.F.B.C.T. WILLIAM E. SUTTON CALLED 429.65 AC. VOL.2548, PG. 1497 O. R.F. Ø.C.T. I6317 DAVIS ESTATE ROAD NEEDVILLE, TX. 77461 $\begin{array}{c} 1.4, N, 65^{-1}, 46^{-}, 35^{-}, W, -143, 35^{-}, 15^{-}, N, -13^{-}, 15^{-}, W, -120, 47^{-}, 16^{-}, N, 74^{-}, 22^{-}, 48^{-}, W, -174, 06^{-}, 17^{-}, N, 71^{-}, 22^{-}, 55^{-}, W, -174, 06^{-}, 213, 55^{-}, 18^{-}, N, 76^{-}, 57^{-}, 14^{-}, W, -124, 56^{-}, 20^{-}, S, 89^{-}, 58^{-}, 16^{-}, W, -118, 00^{-}, 21^{-}, S, 78^{-}, 17^{-}, 19^{-}, W, -140, 82^{-}, 54^{-}, 22^{-}, S, 78^{-}, 17^{-}, 19^{-}, W, -140, 82^{-}, 34^{-}, 23^{-}, S, 88^{-}, 42^{-}, 03^{-}, W, -160, 29^{-}, 24^{-}, N, 59^{-}, 34^{-}, 12^{-}, W, -160, 32^{-}, 55^{-}, 88^{-}, 35^{-}, 59^{-}, W, -160, 29^{-}, 55^{-}, 88^{-}, 35^{-}, 99^{-}, W, -160, 39^{-}, 55^{-}, 88^{-}, 35^{-}, 99^{-}, W, -100, 95^{-}, 55^{-}, 88^{-}, 35^{-}, 99^{-}, W, -100, 95^{-}, 55^{-}, 88^{-}, 35^{-}, 99^{-}, W, -100, 95^{-}, 55^{-}, 100^{-}, 99^{-}, 100^{-}, 99^{-}, 100^{-}, 99^{-}, 100^{-}, 99^{-}, 100^{-}, 99^{-}, 100^{-}, 100^{-}, 99^{-}, 100^{-}, 100^{-}, 99^{-}, 100^{-},$ 2,794.27 Revised 3-3-97, Split into 2 Tracts Revised 1-17-97, North Adjoiner Revised (2-12-96 For reference and further description, see metes and bounds description, Job No. 2080-08-FB, prepared by 01,581 24, N, 59° 34' 12° W, 168, 32' 25, S, 83° 54' 59° W, 190, 95' 26, N, 55° 99° 59° W, 197, 06' 27, N, 61° 18' 11° W, 126, 14' 28, N, 45° 38' 28° W, 218, 62° 29, N, 38° 04' 35° W, 211, 29' 1000 OF TELS Charlie Kalkomey Surveying, Inc. on same date. E I hereby certify that this survey was made on the ground under my supervision, and that this plat 29, N. 38° 0.4' 35° W., 211.29° 30, N. 21° 55' 38° W., 133.83' 31, N. 15° 31' 37° W., 147.63' 32, N. 08° 42' 27° W., 285.30' 31, N. 08° 20' 10° W., 46.60' 34, N. 18° 02' 43° E., 84.85' 35, N. 02° 57' 45° E., 87.36' 6, N. 22° 48' 15° E., 122.43' 37, N. 17° 03' 50° E., 239.35' 8, N. 03° 11° 4° 54' 55', 122.43' FND. 1/2"LP. correctly represents the facts found at the time of the FND 1/2" 1.P. survey and that this professional service substantially complies with the current Texas Society of 1399 1399 10 1399 Professional Surveyors Standards and Specifications AND SURVE for a Category IA , Condition IV , Survey. mulie Kallomey ... 38. N. 03" 22' 13" E., 94.52" 39. N. 09" 00' 11" W., 83.40" 40. N. 28" 09' 29" W., 93.64" 0 SCALE : 1"= 1,200" Charlie Kalkomey Date 11-13-96 41. N. 41* 01' 25* W., 140.79' 42. N. 50* 53* 56* W., 264.23' 43. N. 61* 08' 49* W., 86.53' . 888 Registered Professional Land Surveyor 1,200 Tezas Registration No. 1399 JOB NO. 2080-08-FB I/II-34

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INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT I.G

List of Other Sites Owned by GFL



ATTACHMENT I.G SITES OWNED, OPERATED, OR CONTROLLED BY GFL, INC. IN TEXAS

Industrial Nonhazardous Waste Permit Application

Fort Bend Regional Landfill, LP, Needville, Texas

BU#	Business Unit	Address	City, State
973	Bellfort Landfill	16011 W. Bellfort	Sugar Land, TX 77498
974	Freeport Hauling	3310 FM 523	Freeeport, TX 77541
975	East Houston Hauling	2201 Lee Dr.	Baytown, TX 77520
975	East Houston Hauling	10020 Old Galveston Road	Houston, TX 77034
976	Houston Transfer Station	1548 Mesquite St.	Houston, TX 77093
977	Montgomery Hauling	17851 HWY 105 E.	Conroe, TX 77306
978	Conroe Landfill	17851 HWY 105 E.	Conroe, TX 77306
979	Montgomery Compost	17851 HWY 105 E.	Conroe, TX 77306
980	Northside Treatment Facility	1820 Candle Ridge Park	Houston, TX 77073
981	Port Arthur Hauling	1000 S. Business Dr.	Port Arthur, TX 77640
982	Texas City Hauling	1004 4th Ave. South	Texas City, TX 77590
983	Sugar Land Hauling	16011 W. Bellfort	Sugar Land, TX 77498
984	Corpus Christi Hauling	2199 N. HWY 77	Robstown, TX 78380
985	Port Arthur Transfer Station	1000 S. Business Dr.	Port Arthur, TX 77640
848	Fort Bend Regional Landfill	14115 Davis Estate Rd	Needville, TX 88461
849	Hardy Road Landfill	18710 East Hardy Rd	Houston, TX 77073
854	Ralston Road Landfill	6632 John Ralston Rd	Houston, TX 77049
855	Greenbelt Landfill	550 Old Genoa Red Bluff Road	Houston, TX 77034
856	Houston South Hauling	8515 Highway 6 South	Houston, TX 77083
857	Ruffino Hills Transfer Station	9720 Ruffino Rd	Houston, TX 77031
859	Bay City Hauling	700 Avenue F	Bay City, TX 77414
865	East Mount Houston Hauling	7213 East Mount Houston Rd	Houston, TX 77050
866	East Mount Houston MRF	7213 East Mount Houston Rd	Houston, TX 77050

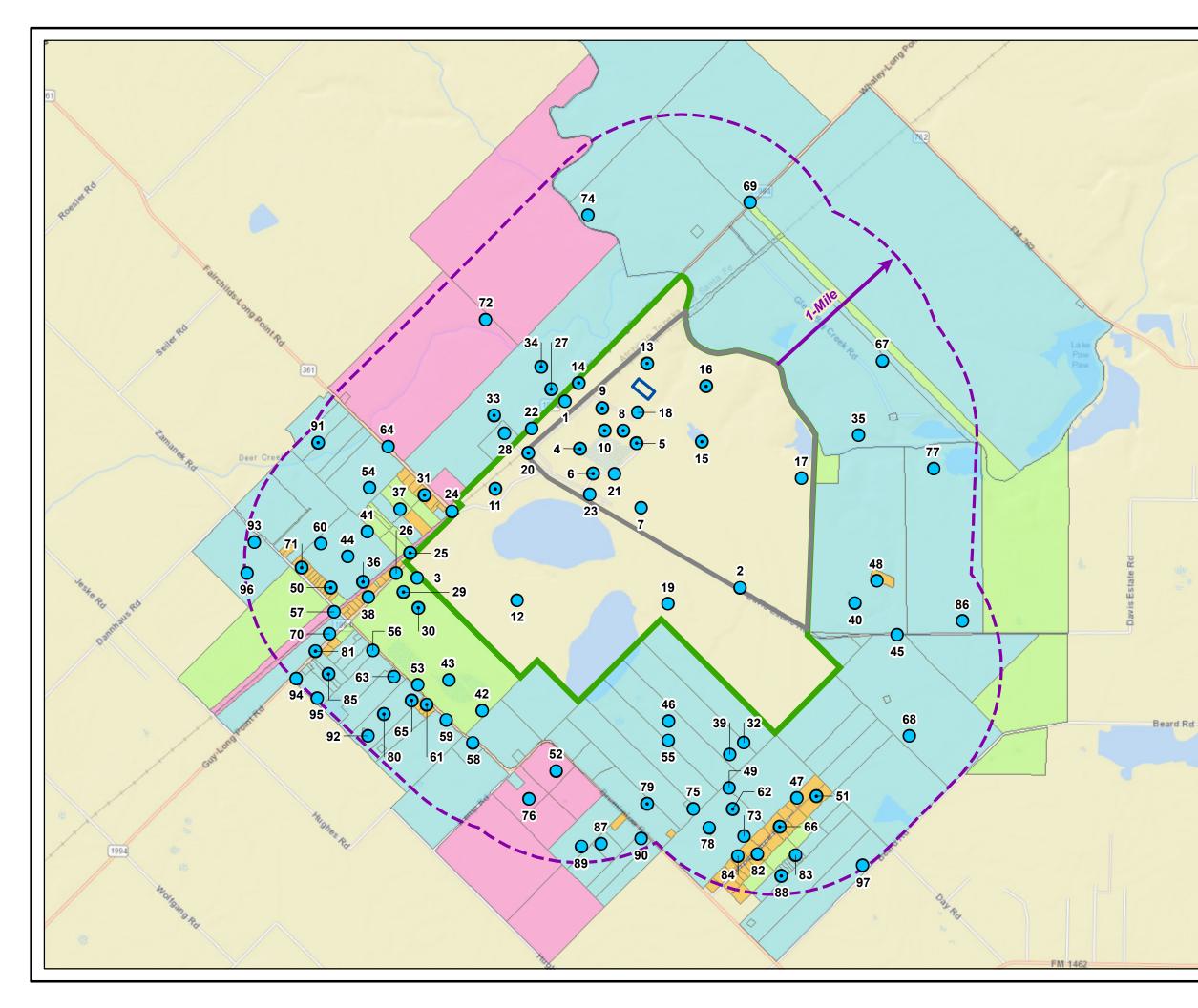


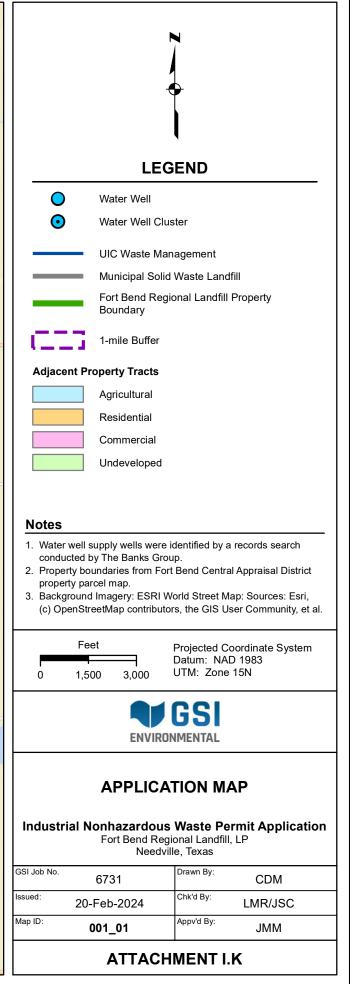
INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT I.K

Application Map







INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT I.L.1 AND I.L2

Adjacent Landowner List and Map

Industrial Nonhazardous Waste Permit No. 96322, Fort Bend Regional Landfill, LP

FORT BEND REGIONAL LANDFILL 6632 JOHN RALSTON RD HOUSTON, TX 77049-3306

DAVID R BEARD ET AL 12223 LEVEL RUN ST MEADOWS PLACE TX 77477-1616

VICKI POLAK 121 HUCKLEBERRY DR LAKE JACKSON TX 77566-4412

NEIL YELDERMAN AND OSCAR BANFIELD ET AL PO BOX 203 DAMON TX 77430-0203

CORA LEA ZWAHR 9240 FM 1994 RD NEEDVILLE TX 77461-9312

ALBERTO A AND AMANDA N RUIZ 2122 INDIAN CLEARING TRL ROSENBERG TX 77471-9277

CENTERPOINT ENERGY HOUSTON ELECTRIC LLC PO BOX 1700 HOUSTON, TX 77251-1700 SARAH BOOTH GST EXEMPT TRUST 9115 FM 2759 RD RICHMOND TX 77469-9372

CHARLES W AND SHERRY ANN ROEHLING 17009 BRUMBELOW RD NEEDVILLE TX 77461-9410

MELISSA BERRY JOHNSTON ET AL C/O DAN BERRY 2 RICHLAND CIR ANGLETON TX 77515-4118

LANDGRANT RESOURCES LLC C/O KEVIN DASCH 104 W 32ND ST AUSTIN TX 78705-2302

MARIE E AND GEORGE E ZWAHR 13918 FM 361 RD NEEDVILLE TX 77461-9315

CENTERPOINT ENERGY ATTN: PROPERTY TAX DEPARTMENT PO BOX 1475 HOUSTON, TX 77251-1475

JAMES B HARRISON FOUNDATION C/O FRANKLIN BARRETT DAVIS JR PO BOX 376 RICHMOND TX 77406-0010 WILLIAM E SUTTON 16317 DAVIS ESTATE RD NEEDVILLE TX 77461-9466

RAYMOND BRUMBELOW C/O C R GUY-EFIMOFF 2101 N HOLLAND RD MANSFIELD TX 76063-5505

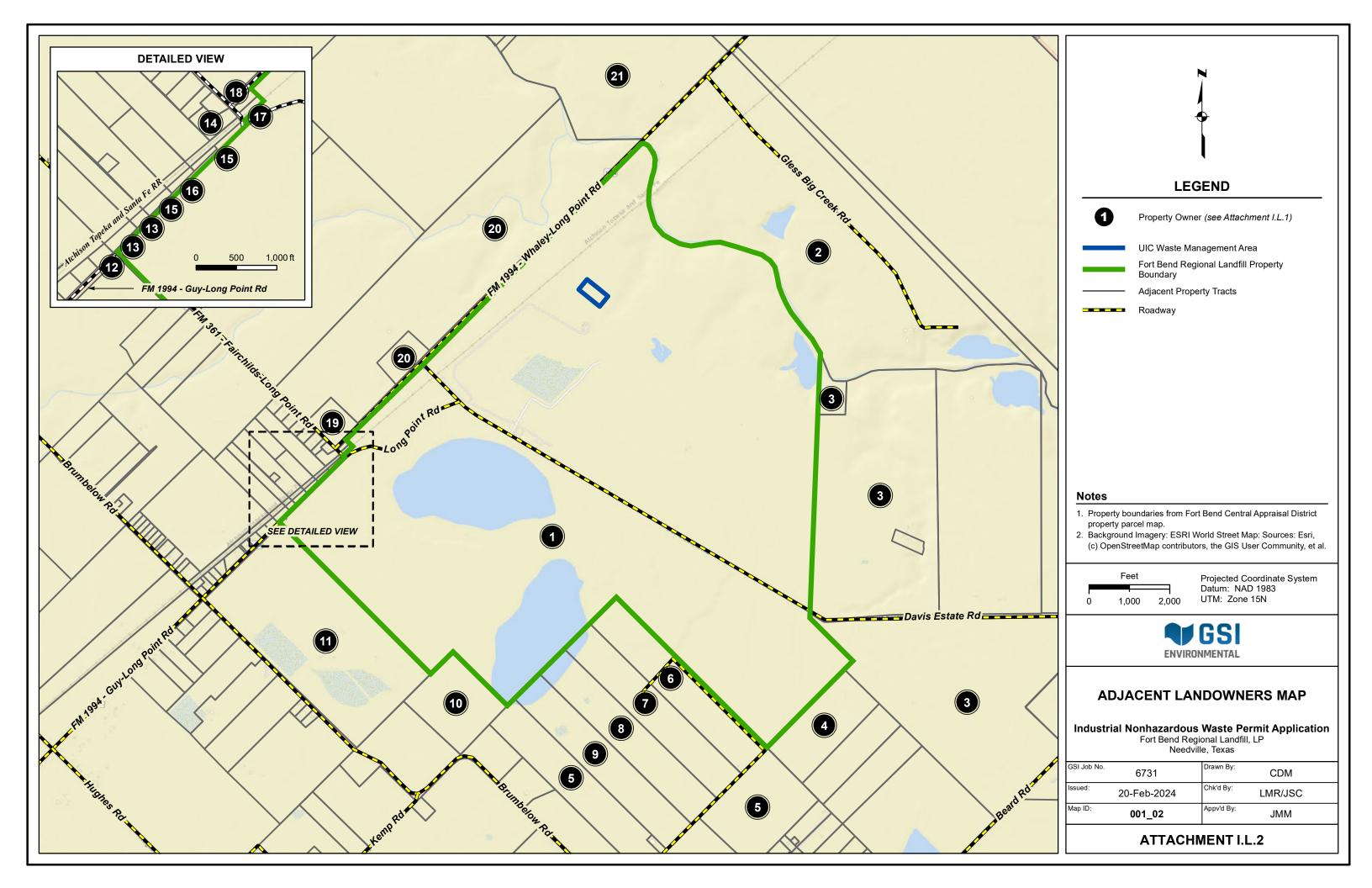
GEORGE DUTY III 4805 SAWMILL RD NEEDVILLE TX 77461-9519

NATIVIDAD HERNANDEZ 9440 FM 1994 RD NEEDVILLE TX 77461-8589

WIL FREDIS AND ARCELIA FLORES 10910 COLDWATER BRIDGE CT SUGAR LAND TX 77498-0945

ZWAHR AUGUST P ESTATE 9240 FM 1994 RD NEEDVILLE TX 77461-9312

CHERYL MOORE BOROWSKI AND BRENDA FAYE MARTIN HAAS TRUST PO BOX 1133 RICHMOND TX 77406-0029





INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT I.N

Core Data Form



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)							
	· · · · · · · · · · · · · · · · · · ·						
New Permit, Registration or Authorization (<i>Core Data I</i>	Form should be submitted with	the program application)					
	onn should be submitted with	ine program application.)					
Renewal (Core Data Form should be submitted with the	e renewal form)	Other					
	2						
2. Customer Reference Number (if issued)		3. Regulated Entity Reference Number (if issued)					
2. Customer Reference Number (ij issueu)	Follow this link to search	5. Regulated Entity Relevence Multiper (ij issued)					
	for CN or RN numbers in						
CN 602656373 Central Registry** RN 102803913							
	1						

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Custon	5. Effective Date for Customer Information Updates (mm/dd/yyyy)							
New Customer Update to Customer Information Change in Regulated Entity Ownership									
Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)									
The Customer Name submitted here may	be updated automatically ba	sed on what is c	urrent and active	with th	e Texas Secr	etary of State			
(SOS) or Texas Comptroller of Public Accou	ınts (CPA).								
6. Customer Legal Name (If an individual, pri	nt last name first: eg: Doe, John)		<u>If new Customer, (</u>	enter pre	evious Custome	<u>er below:</u>			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)		9. Federal Tax II	D	10. DUNS N	Number (if			
			(0, d);=:+=)		applicable)				
			(9 digits)						
11. Type of Customer:	tion	🗌 Individ	lual Partnership: 🗌		rship: 🗌 Gen	eral 🗌 Limited			
Government: 🗌 City 🗌 County 🔲 Federal 🗌	Local 🔲 State 🗌 Other	Sole P	roprietorship 🗌 Other:						
12. Number of Employees			13. Independer	tly Ow	ned and Ope	rated?			
0-20 21-100 101-250 251-	500 🔲 501 and higher		Yes No						
14. Customer Role (Proposed or Actual) – as i	it relates to the Regulated Entity li	isted on this form.	Please check one of	the follo	wing				
Owner Operator	Owner & Operator		Other:						
Occupational Licensee Responsible Pa	rty VCP/BSA Applicant								
15. Mailing									
Address:									
City	217			2IF + 4					
16. Country Mailing Information (if outside	17. E-Mail Ad	ddress (if applicable	e)						
18. Telephone Number	19. Extension or	Code	20. Fax N	umber	(if applicable)				

()	-

SECTION III: Regulated Entity Information

21. General Regulated En	itity Informat	t ion (If 'New Regulate	d Entity" is selec	ted, a new pe	rmit applica	tion is also required.)			
New Regulated Entity Dpdate to Regulated Entity Name Dpdate to Regulated Entity Information									
The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).									
22. Regulated Entity Nam	ne (Enter name	e of the site where the	regulated action	is taking pla	ce.)				
Fort Bend Regional Landfill									
23. Street Address of the Regulated Entity:	14115 Davis	14115 Davis Estate Road							
<u>(No PO Boxes)</u>	City	Needville	State	ТХ	ZIP	77461	ZIP + 4		
24. County	Fort Bend								
		If no Street Ad	dress is provid	led, fields 2	5-28 are re	quired.			
25. Description to									
Physical Location:									
26. Nearest City	26. Nearest City State Nearest ZIP Code								
Needville						ТХ	7746	1	
Latitude/Longitude are r	Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be								

used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decim	al:			28	. Longitude (W	/) In Decim	nal:		
Degrees	Minutes		Seconds	De	grees	Mi	nutes		Seconds
29		23	46		-95		43		29
29. Primary SIC Code	30.	Secondary SIC	Code	31. Prin	nary NAICS Co	de	32. Secon	dary NAIC	CS Code
(4 digits)	(4 d	gits)		(5 or 6 digits) (5 or 6 digits)			ts)		
4953				562212			562219		
33. What is the Primary B	Business of t	his entity? (D	o not repeat the SIC o	r NAICS de	scription.)		1		
Municipal solid waste landfil	l operation								
	14115 Dav	is Estate Rd							
34. Mailing Address:	(979) 793-	979) 793-4430							
Address.	City	Needville	State	тх	ZIP	77461		ZIP + 4	
35. E-Mail Address:		-							
36. Telephone Number	·		37. Extension or	Code	38. Fa	ax Numbei	r (if applicable	e)	
(979) 793-4430					() -			

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

Dam Safety	Districts	Edwards Aquifer	Emissions Inventory Air	Industrial Hazardous Waste
	i,		FGA001A	SWR #96322
Municipal Solid Waste	New Source Review Air	OSSF	Petroleum Storage Tank	D PWS
MSW 2270	93892			
Sludge	Storm Water	Title V Air	Tires	Used Oil
	TXR05R702	2696		
Voluntary Cleanup	Wastewater	Wastewater Agriculture	Water Rights	Other: UIC
				WDW 488 and 489

SECTION IV: Preparer Information

40. Name:	Jennifer Glowa	acki		41. Title:	Region Field Engineer
42. Telephone Number		43. Ext./Code	44. Fax Number	45. E-Mail Address	
(346) 482-8607	,		() -		

SECTION V: Authorized Signature

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

Company:	Fort Bend Regional Landfill, LP	Job Title:	Area Landfill Director				
Name (In Print):	Marcos Elizondo			Phone:	(713)2	92- 2417	1
Signature:	Marcost 126nd	0		Date:	2	15	2024
							. /



INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT I.O.1 AND I.O.2

English and Spanish Plain Language Forms



Texas Commission on Environmental Quality

Plain Language Summary

Industrial and Hazardous Waste Permit Applications

Instructions: Complete this form and submit with any industrial hazardous waste, or industrial solid waste, permit application that is subject to 30 Texas Administrative Code $\frac{539.405(k)}{1000}$ [applications for a Class 3 permit modification, permit amendment, permit renewals, and for a new permit]. Please be concise.

Application Info	rmat	ion					
Purpose of applicati	on:	□New	□Renewal	□Modification/Amendment			
Date Submitted to T	CEQ						
Customer Name:							
Facility Name:							
CN:			RN:				
Permit Number:			Solid Waste Regi	istration Number:			
Facility Street Addre	ess:						
Weblink to Street A	ddres	is:					
Facility Informat	tion	(check all tha	at apply)				
What is the primary type of□Chemical manufacturing □ Oil refinery □ Treatment, storage or dispondent							
business?	□Ot	Other If other, enter description:					
What does the	□Ch	emicals	Fuels / lubric	ants No products			
facility produce?	□Ot	her If other	ner, enter description:				
Waste Managem	ent	Informatio	on (check all that ap	ply)			
What types of	□Nonhazardous industrial □Hazardous						
wastes are managed?	Other If other, enter description:						
Where does the waste come from?	□Of	f-site source	□On-site	e source			
How is the waste	□Storage □Process / Treatment □Disposal						
managed?	□Ot	her If othe r	, enter description	:			
What type of units	□Ac	tive	□Post-C	losure			
manage the waste?	Тур						
What happens to	□Tr	ansported off	-site Dispos	ed on-site			
waste managed at the facility?	□Ot	her If othe r	, enter description	:			

Pollution Control Methods (check all that apply)						
How will the	□Routine inspections □E	ngineered liner systems □Spi	ill containment			
facility prevent spills, leaks, and	□Proper waste handling	□Operations in enclosed □Groundwater mor buildings				
releases?	□Other If other, enter description:					
How will the	□Spill clean-up supplies □Decontamination equipment					
facility clean up spills, leaks, and releases?	Other If other, enter description:					
How will the	□Air monitoring / control systems □Filters / scrubbers □Routine inspections					
facility prevent / minimize air	□Proper waste handling □Operations in enclosed buildings					
emissions?	□Other If other, enter description:					

Description of Update (for Class 3 Modifications and Amendments only)

List and explain any changes this modification or amendment would make to the two sections above— Waste Management Information and Pollution Control Methods.

.



Comisión de Calidad Ambiental de Texas

Resumen en Lenguaje Sencillo

Solicitudes de Permisos de Desechos Industriales y Peligrosos

Instrucciones

Complete este formulario y envíe con cualquier solicitud de permiso de desechos industriales peligrosos, o desechos sólidos industriales, que esté sujeta al Código Administrativo <u>de Texas 30 §39.405 (k)</u> [es decir, solicitudes para una modificación de permiso de Clase 3, enmienda de permiso, renovaciones de permisos y para un nuevo permiso].

Sea conciso: toda la información debe caber en dos páginas.

Información de	la Solicitud									
Propósito de la solicitud:	⊠Nuevo	□Renovación	□Modificaciór	n/Enmienda						
Sometido a TCEQ: F	ebrero 2024									
Nombre del Cliente:	GFL Environmental	, Inc.								
Nombre de la Instal	Nombre de la Instalación: Fort Bend Regional Landfill									
CN: CN602656373		RN: 102803913								
Número de Permiso Número de 5 dígitos	Introduzca	Número de Regis	tro de Desechos S	Sólidos: 96322						
Dirección de la Inst	alación: 14115 DA	/IS ESTATE RD, NE	DVILLE TX 77461 2	2705						
Enlace Web a la Dire 95.7252877,17z?entry	•	s://www.google.com	n/maps/@29.39597	/41,-						
Información de l	a Instalación (/	marque todas lo que	correspondan)							
¿Cuál es el tipo principal de	□Planta de manufa química	actura □Refin aceite		nstalación de tratamiento, acenamiento o eliminación						
negocio?	Otro Si es otro, introduzca la descripción: Introduzca la descripción									
¿Qué produce la	□Químicos	□Combustibles lubricantes	productos							
instalación?	Otro Si es otro, introduzca la descripción: Introduzca la descripción									
Información sob	re la Gestión d	e Desechos (ma	que todas las que o	correspondan)						
¿Qué tipos de	⊠Industrial no pel	igroso	□Peligroso							
desechos se gestionan?	□Otro Si es otro, introduzca la descripción: Introduzca la descripción									
¿De dónde provienen los desechos?	⊠Fuente externa		□Fuente interna							
¿Cómo se	⊠Almacenar	□Procesar	/ Tratar 🛛	Eliminación						
gestionan los desechos?	□Otro Si es otro ,	□Otro Si es otro, introduzca la descripción: Introduzca la descripción								

¿Qué tipo de unidades gestionan los desechos?	 ☑ Activo □ Postcierre Teclee y cuente: Nueve (9) tanques 			
¿Qué sucede con los desechos gestionados en la instalación?	□Transportados fuera del sitio			
	Otro Si es otro, introduzca la descripción: Introduzca la descripción			

Métodos de Control de la Contaminación (marque todos los que correspondan)						
¿Cómo evitará la instalación derrames, fugas y liberaciones?	⊠Inspecciones de Rutina	⊠Sistemas de revestimiento de ingeniería		⊠Contención de derrames		
	⊠Manejo adecuado de desechos	□Operaciones en edificios cerrados		⊠Monitoreo de aguas subterráneas		
	□Otro Si es otro, introduzca la descripción: Introduzca la descripción					
¿Cómo limpiará la instalación los derrames, fugas y liberaciones?	Suministros de Equipos de descontaminación limpieza de derrames					
	□Otro Si es otro, introduzca la descripción: Introduzca la descripción					
¿Cómo evitará / minimizará la instalación las emisiones atmosféricas?	□Sistemas de monitoreo / control de aire		□Filtros / depuradores	□Inspecciones de rutina		
	⊠Manejo adecuado de desechos □Operaciones en		edificios cerrados			
	Otro Si es otro, introduzca la descripción: Introduzca la descripción					

Descripción de la Actualización (solo para Modificaciones y Enmiendas de Clase 3)

Liste y explique cualquier cambio que esta modificación o enmienda haría a las dos secciones anteriores: **Información de Gestión de Desechos** y **Métodos de Control de la Contaminación**. Introduzca una descripción concisa



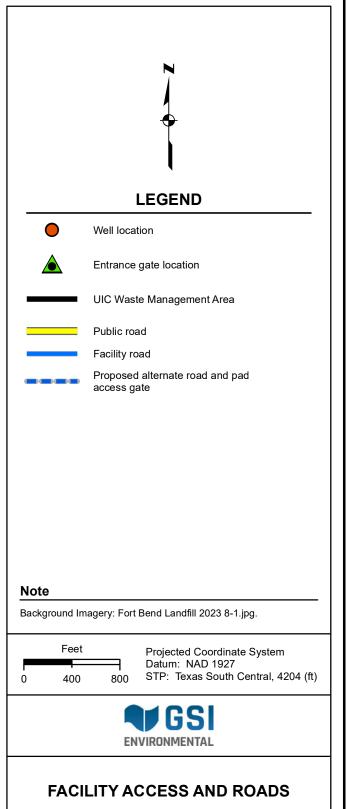
INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT – SECTION II

Attachment II.F Facility Road Map





Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT II.F					
Map ID: 004_01 Appv'd By: JMM					
Issued:	20-Feb-2024	Chk'd By:	JSC		
GSI Job No.	6731	Drawn By:	CDM		



INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT – SECTION III

Attachment III.D Waste Analysis Plan



ATTACHMENT III.D WASTE ANALYSIS PLAN

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas



ATTACHMENT VII.A WASTE ANALYSIS PLAN

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas

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FIGURE

Figure III.D.1 Flow Chart of Waste Fluid Acceptance and Verification Procedures

APPENDICES

Appendix III.D.1Analytical Laboratory Report of On-Site Landfill LeachateAppendix III.D.2Summary Waste Profiles of Typical Off-Site Waste StreamsAppendix III.D.3GFL Special Waste Profile



1.0 INTRODUCTION

1.1 Scope of WAP

This Waste Analysis Plan (WAP) describes how the Fort Bend Regional Landfill (FBRL) facility analyzes wastes to be managed in permitted nonhazardous waste management units, which will include tanks used for storage and processing of liquids prior to disposal via UIC-permitted deep injection wells. The plan addresses waste verification for wastes received from off-site sources, and characterization of wastes (i.e., landfill leachate) generated at FBRL.

This WAP has been prepared using the provisions of 40 CFR 264.13 (adopted by the Texas Commission on Environmental Quality (TCEQ) in 30 TAC 335.152(a)(1)) as a general guideline. As noted in Section 1.2 of this WAP, the FBRL is not authorized to accept, handle, and/or manage hazardous wastes, but as discussed with the TCEQ, FBRL will use provisions in 40 CFR 264 as a general guide. The WAP is employed to obtain information needed to treat, store, or dispose of wastes in accordance with applicable state and federal requirements and permit provisions. The WAP also addresses important safety considerations. Certain wastes when mixed with others may produce hazardous situations through heat generation, fires, explosions, or release of toxic substances. Proper waste analysis, characterization, and handling allow for safe waste management and facility operations.

1.2 Facility Overview

Currently, FBRL is a RCRA Subtitle D solid waste landfill that accepts municipal solid waste, construction and demolition debris, non-hazardous industrial waste, and special wastes. Special wastes are required to be profiled and reviewed by FBRL personnel or its designee prior to disposal in accordance with the facility's TCEQ-approved Special Waste Acceptance Plan. In addition, the facility has TCEQ approval to solidify liquid waste and sludges.

As noted previously, FBRL is permitting two Class I UIC Injection Wells, and FBRL will offer storage and disposal services to generators of nonhazardous wastewater via the deep injection wells, as well as the leachate that is generated by FRBL from operation of the on-site municipal solid waste landfill. It is estimated that at full operation, the majority of the wastes managed in the pre-injection unit tanks and disposed via the UIC Class I injection wells will be off-site generated waste (i.e., commercial), while the remainder will come from on-site wastes (i.e., non-commercial). These waste streams are non-continuous, and the maximum volume that can be injected annually is 353,203,200 gallons.

1.3 Waste Stream Summary

Table III.A provides a list of the nonhazardous wastes managed and disposed on-site via the UIC Class I injection wells, and a summary is provided below:

- Leachate from FBRL facility;
- Leachate from other landfills;
- Wash water;

GSI Job No. 6731



- Tank washouts;
- Contaminated stormwater from the FRBL facility;
- Contaminated stormwater;
- Other aqueous waste;
- Scrubber water;
- Other inorganic liquids; and
- Nonhazardous brine.

Note that the volume of individual waste streams will vary annually based on industry trends. The waste streams listed above will be comingled and neutralized in the UIC pre-injection unit (i.e., Tanks TK-1300, TK-1310, TK-1320, TK-1330, TK-1340, TK-1350, TK-1360, TK-1370, and TK-1390), including elementary neutralization prior to injection in the Class I Injection Wells. Table III.B provides additional details on the liquid wastes that will be managed in the pre-injection unit, including the TCEQ waste classification for each industrial waste stream.

FBRL is <u>not</u> authorized to manage the following wastes:

- Hazardous wastes, including characteristically hazardous wastes (D-code wastes per 40 CFR 261.21, 261.22, 261.23, and 261.24); hazardous wastes from non-specific sources (F-code wastes per 40 CFR 261.31); hazardous wastes from specific sources (K-code wastes per 40 CFR 261.32); and discarded and off-specification commercial chemical products (P- and U-code wastes per 40 CFR 261.33);
- *Polychlorinated biphenyls (PCBs)* ≥50 *ppm*, as defined by the EPA in regulations issued pursuant to the Toxic Substances Control Act (40 CFR Part 761), unless FBRL is compliant with the federal requirements for PCB storage specified in 40 CFR Part 761;
- *Radioactive wastes,* unless FBRL becomes authorized to store, process and dispose of radioactive wastes in compliance with specific licensing and permitting requirements under Chapter 401 of the Texas Health and Safety Code and any other rules of state or federal authorities;
- *Explosive material,* as defined by the Department of Transportation (DOT) under 49 CFR Part 173;
- Special Waste from Health Care Related Facilities subject to 25 TAC Chapter 1 or 30 TAC Chapter 330.

2.0 WASTE STREAM CHEMICAL AND PHYSICAL CHARACTERISTICS

Waste streams accepted at the facility will consist of liquids generated from various non-industrial and industrial facilities, and only include a blend of Class I and Class II nonhazardous wastes. The waste acceptance procedures to ensure that only nonhazardous wastes are received are described in Section 3.0.



An example analytical of the onsite leachate waste stream (Waste No. 1 on Table III.A and III.B) is included in Appendix III.D.1. Summarized waste profiles of the typical offsite waste streams from waste streams 3 through 10 listed on Tables III.A. and III.B are presented in Appendix III.D.2. The examples presented in Appendices III.D.1 and III.D.2 represent the physical and chemical characteristics of each type of liquid waste stream to be accepted at the facility.

The waste streams to be accepted at the facility will include materials with a pH range greater than or equal to 2.5 and less than 12.5. The accepted waste streams will have a specific gravity range greater than or equal to 0.9 and less than or equal to 1.50 referenced to 68°F and 1 atmosphere. The waste properties presented in Appendices III.D.1 and III.D.2 include samples of materials which exemplify the waste streams identified in Tables III.A and III.B.

3.0 OFF-SITE GENERATED WASTES

3.1 Waste Evaluation (Profiling) for New Waste Streams

The purpose of a waste evaluation is to characterize non-hazardous waste liquids generated offsite that are designated for comingling and injection into the Class I injection wells. Characterization of the off-site wastes will determine whether a waste received from off-site is acceptable (i.e., allowable under the permit) and to ensure safe and proper handling practices are used during storage and processing. This waste evaluation (profiling) process applies to new waste streams and is summarized in Figure III.D.1.

3.1.1 Pre-Approval Process

It will be the responsibility of the waste generator to characterize each waste stream to be disposed in the proposed Class I injection wells. Each waste stream will need a completed profile (GFL Special Waste Profile in Appendix III.D.3) and required documents for acceptance. All offsite waste will have a hazardous waste determination completed that may include analytical test results, safety data sheets (SDS), generator knowledge, etc. The generator will be required to demonstrate the absence of listed or characteristic hazardous waste as part of the approval process.

A transmittal and waste profile sheet will accompany each off-site waste stream shipment. An example of a typical form is presented at the end of this section. The form (or suitable equivalent) will be required for each incoming load. Additionally, the waste fluid generator or FBRL will perform a compatibility evaluation of the injectate with the disposal formation and confining zone strata. The evaluation must be suited to the physical and chemical characteristics of the injectate and geology, geochemistry, and operational conditions of the Class I injection wells.

It is the responsibility of the waste generator to notify FBRL of any waste stream changes and to furnish the appropriate revised waste characteristics report. Waste streams will be characterized initially, annually thereafter through recertification, and upon any notification of a waste stream change.



3.1.2 FBRL Review

FBRL reviews the waste profile form and any supporting documents (e.g., laboratory analyses, safety data sheets, etc.) for technical adequacy. The review addresses the following: i) environmental/permit compliance; ii) treatability/handling; and iii) health and safety issues. Errors or omissions discovered during the review process are resolved through contact with the customer by phone, letter, or other means. Waste profiles are re-evaluated whenever the generator has notified FBRL of a change in the waste or FBRL has reason to think that the waste has changed.

3.1.3 Off-Site Waste Fluid Arrivals

After the waste profile and supporting information is accepted by FBRL, the customer may schedule shipments. All unloaded waste fluids will be placed initially in a pre-mix settling tank and/or filtered so suspended solids can be removed before disposal. The pre-mix batch tanks will also be used to treat any incoming waste fluids to meet permit requirements.

3.1.4 Waste Fluids Unloading and Volume Monitoring

A trained operator will be present during offloading of waste fluids. A waste fluid logbook will be maintained documenting incoming waste stream volumes. At a minimum, waste fluid logbook entries will include:

- Operator name,
- Date/time,
- Generator identification,
- Approximate volume, and
- Approved waste fluid source from Table III.A.

Additionally, injection pressure, annulus pressure, flow rate, and total cumulative volumes will be continuously monitored and provided to the TCEQ per applicable permit requirements. Records of the daily on-site generated leachate and daily volume accepted from offsite sources will be kept in the waste fluid logbook and a total monthly volume of off-site waste fluid will be calculated based on records maintained in the offsite logbook and reported in the monthly well reports to the TCEQ. As part of the FBRL waste acceptance and verification procedure, (a.k.a., Fingerprinting) each load that arrives at the FBRL facility will be checked for:

- Visual/ physical examination for color, odor, and presence of foreign material such as oil,
- Conductivity,
- pH,
- Fluid density/ fluid temperature, and
- Additional waste specific parameters, as necessary.

Waste fluids are to be approved in accordance with this Waste Analysis Plan to verify the nonhazardous nature of the waste fluid prior to acceptance. Prior to commingling with other waste fluids for disposal into the proposed well (additional Fingerprinting), the following analysis will be performed: GSI Job No. 6731



- Conductivity,
- pH,
- Total suspended solids,
- Total dissolved solids,
- Specific gravity, and
- Presence of oil and grease.

4.0 WASTE SAMPLING AND ANALYSIS

4.1 Sampling Methods

FBRL or contracted TCEQ NELAC-certified analytical laboratory personnel will collect necessary waste stream samples on a daily or annual frequency, as required. All sampling procedures will be conducted at the direction of the selected, certified analytical laboratory, and in accordance with acceptable USEPA procedures. FBRL will document the sampler's name, sampling point, waste source identification number, and date sampled, and this documentation will be included on the chain-of-custody paperwork. Samples will be collected using the grab or sample composite method. Table III.C summarizes the analytical method for typical parameters to be included in the waste fluid sampling.

4.2 Analytical/Testing Procedures and Parameters

4.2.1 Laboratory Guidelines

Laboratory analyses may be used to aid in waste verification and/or characterization and determine appropriate management methods. The analyses follow guidelines, including quality assurance/quality control (QA/QC) measures, from published method specifications such as:

- Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA Publication SW846, 1987, as revised;
- Standard Methods for the Evaluation of Wastes and Waste Water, 18th edition, 1992, as revised;
- Methods for Chemical Analysis of Water and Wastes, USEPA Publication 600/4-79-020, 1979;
- ASTM Standard Test Methods (e.g., Flash Point by Penske-Martens Closed Tester, American Society for Testing and Materials, Philadelphia);
- HAZCAT Chemical Identification System; or
- Other: Alternate standard methods generally accepted by the industry may also be employed for laboratory analyses.

4.2.2 QA/QC

QA is the process for ensuring that all analytical data is technically sound, statistically valid, and properly documented. QC procedures are the tools employed to measure the degree to which quality assurance objectives are fulfilled.



General Sampling and Analytical Information

The sampling protocol will be followed by properly trained personnel conducting the sample collection and analysis. Approved sample preservation techniques from 40 CFR 136: Analysis of Pollutants will be followed as appropriate. These will include preservation in plastic or glass sample containers provided by the laboratory and placement in a sample container for shipment to the laboratory. FBRL will require all waste samples be analyzed by a TCEQ approved laboratory.

Standard chain of custody protocols will be followed for sample collection, transport, and analysis. Below are summaries of the minimum sampling and analysis protocols which will be followed for each characterization parameter.

Labeling

- 1. Sample ID including code or name, waste source ID# (if previously approved), date and time.
- 2. Name and company of sample collector.
- 3. Sample collection method (e.g., grab or composite).

Reporting

- 1. Sample preservation technique, as appropriate.
- 2. Analytical method for parameter detection/quantification.
- 3. Analytical method accuracy and quantification limits.
- 4. Field documentation of sampling.

Sampling Controls

The following are QA/QC parameters which will be followed to ensure the adequacy of the sampling and analytical techniques for onsite sampling and analysis described in this plan.

Equipment Blanks

If possible, samples will be obtained directly from the sample tap and not be transferred to any secondary container or device before being stored in the sample container to be shipped to the laboratory. In this case, no equipment cleaning blanks will be required. If not, equipment blanks will be taken as deemed appropriate by FBRL for the purpose of detecting potential cross contamination due to improper decontamination of sampling equipment. After sampling, the sampling equipment will be decontaminated according to the sampling plan protocol. The sampling device will then be rinsed with deionized water and the rinsate collected in a sample container for transport to the laboratory for analysis of, at a minimum, the same parameters chosen in the sampling plan above.



Trip Blanks

In the case of suspect analysis from any laboratory, trip blanks will be used and will be sample containers filled with Type II reagent grade water at the laboratory, sealed at the laboratory, which accompany the sample containers used throughout the sampling event. The sample containers shall be handled in the same manner as the samples. The trip blank(s) will be sent to the laboratory for analysis of, at a minimum, the same parameters chosen in the sampling plan above. A minimum of one trip blank per sampling event will be used, if trip blanks are utilized.

Sample Duplicates

On advance written notification by the TCEQ, duplicate samples will be taken to assess the QA/QC of the laboratory conducting the analysis. Such samples will be drawn from the same site from which primary samples are taken. Any duplicate samples will be split from the original sample in a matter to emphasize sample representativeness. The duplicate will be labeled with a sample number which will not conflict with the other samples but will be discernible to the laboratory as a duplicate sample.

Sample Chain-of Custody Protocol

Sample chain-of-custody will be always followed during the sampling and subsequent analysis. Chain-of-custody will be used to document the handling and control necessary to identify and trace a sample from collection to final analytical results.

Analytical Controls

Equipment Calibration

FBRL will require that selected laboratories maintain QA/QC data regarding the frequency and type of instrument calibration performed at the laboratory and in the field. Any calibration of thermometers, gauges, chromatographs. Spectrometers and other meters will be conducted according to appropriate instrument manufacturer specifications and manufacturer recommended frequencies or as dictated by applicable laboratory Q/A plans.

Data Reduction

The process of transcription of the raw data into the reportable units will be conducted by the laboratory in accordance with that laboratory's Q/A plan. Data reduction utilized in the analysis and reporting process will be presented in the reports to the TCEQ for each sampling event and parameter tested by a specific laboratory used at the time. Data are typically recorded on handwritten sheets which include identification data, sample data and all data required for calculations or on computer print-outs accompanied by operator notes and summaries.



Data Verification

Data verification will be conducted after each sampling event by assigned laboratory personnel review of chain-of-custody forms, equipment calibration records and data completeness. Spot checks of raw data versus reported data will be performed to review math accuracy, significant numbers and reporting units. In addition, certified laboratory standard quality assurance/quality control checklists will be utilized for individual test methods such as blanks, standards, and comparisons of internal lab test duplicate results. Problems with any of these items will be indicated in the report to the agency.

Internal Quality Control

Certified quality control samples will be run periodically with sample batches obtained from appropriate commercial sources, or the TCEQ. Internal quality control will be addressed by disclosure of the laboratory's use of blanks, blind standards, matrix spikes and matrix spike duplicates, preparation of reagents, and laboratory duplicate or replicate analyses.

Corrective actions will be implemented by laboratories if the analytical or sampling method does not achieve plan objectives. Actions may entail re-sampling the waste stream and/or re-analyzing the fluid for a particular parameter, re-calibrating the analytical device, or other appropriate actions. Action levels will be taken in accordance with USEPA SW-846: Hazardous Waste Test Methods or other approved TCEQ methods.

5.0 RECORD KEEPING

FBRL maintains documentation such as waste profiles and manifests in the facility operating record. This documentation may be maintained in an electronic format. FBRL also maintains an electronic database which tracks waste movement in the facility. All records received from off-site generated waste are kept in accordance with the applicable regulations.

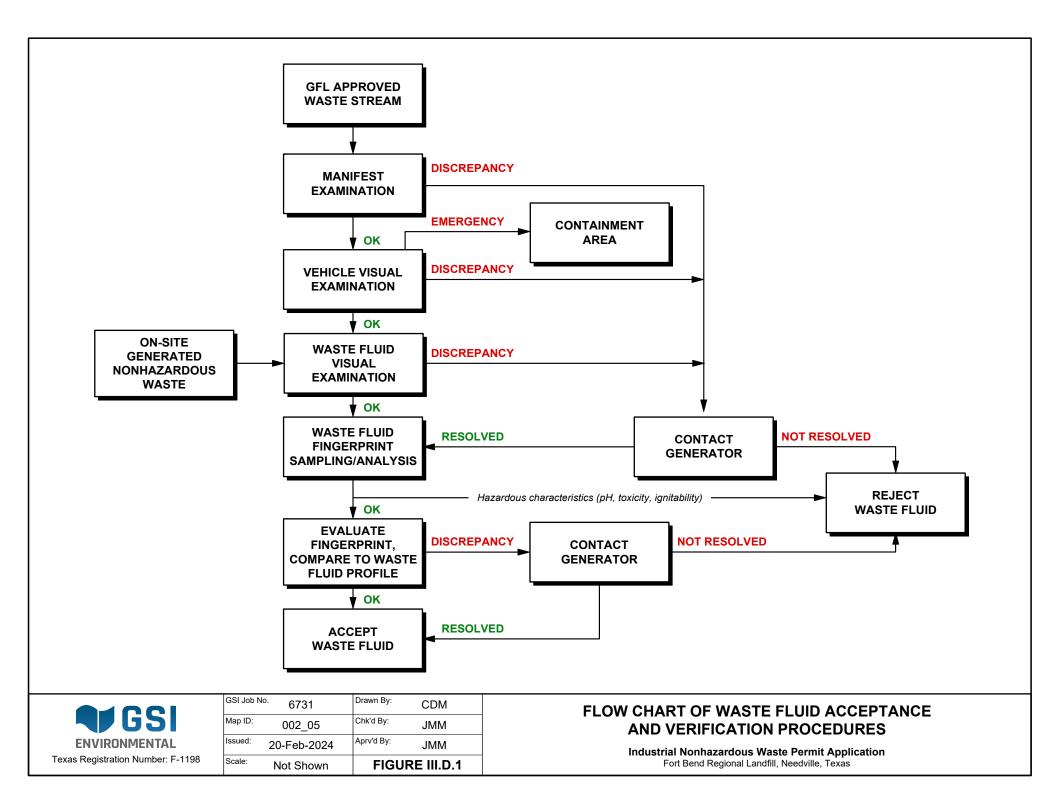


ATTACHMENT III.D: WASTE ANALYSIS PLAN

Fort Bend Regional Landfill, LP Needville, Texas

FIGURES

Figure III.D.1 Flow Chart of Waste Acceptance and Verification Procedures





ATTACHMENT III.D: WASTE ANALYSIS PLAN

Fort Bend Regional Landfill, LP Needville, Texas

APPENDICES

Appendix III.D.1 Analytical Laboratory Report of On-Site Landfill Leachate



10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

May 17, 2022

Mark Meadows WCA 14115 Davis Estate Road Needville, TX 77461 Profile: 0311213297BH

REVIEWED

EQAI ID: 652549 2022 Renewal Submittal

Work Order: HS22040998

Laboratory Results for: FBRFL Leachate

Dear Mark Meadows,

ALS Environmental received 2 sample(s) on Apr 20, 2022 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: RAGENP.GIGA Ragen Giga Project Manager



alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Project: Work Order:	WCA FBRFL Leachate HS22040998				SAMPLE SUMI	MARY
Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS22040998-01	Leachate-489949	Water		20-Apr-2022 11:35	20-Apr-2022 15:43	
HS22040998-02	Trip Blank	Water	CG-020822 -730	20-Apr-2022 00:00	20-Apr-2022 15:43	~

Client: WCA Project: FBRFL Leachate Work Order: HS22040998

Work Order Comments

• Report Revised at the Client s request, updated select list, report to include "pyridine"

Work Order Comments

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

Work Order Comments

All bottles have varied times. Logged in with earliest. Ammonia pH >2 (7). Pres`d with 1ml H2SO4 (Lot 310060245-17) 4/20/2022 @ 16:10. Final pH (6) Trip Blank logged in on hold

ECD Organics by Method SW8081

Batch ID: 177913

Sample ID: LCS-177913

• The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS/LCSD.

Sample ID: MBLK-177913

• Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

ECD Organics by Method SW8151

Batch ID: 177912

Sample ID: MBLK-177912

• Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

GCMS Semivolatiles by Method SW8270

Batch ID: 177915

Sample ID: Leachate-489949 (HS22040998-01)

One or more base/neutral surrogate recoveries were below the lower control limits. The base/neutral sample results may be biased low.

GCMS Volatiles by Method SW8260

Batch ID: R407112

Sample ID: HS22040980-02MS

· MS and MSD are for an unrelated sample

CASE NARRATIVE

Client: WCA Project: FBRFL Leachate Work Order: HS22040998

Metals by Method SW7470A

Batch ID: 177940

Sample ID: HS22040830-01MS

• MS and MSD are for an unrelated sample

Metals by Method SW1311/6020

Batch ID: 177991

Sample ID: Leachate-489949 (HS22040998-01)

• Sample ran at a 2X dilution due to sample matrix.

WetChemistry by Method SM4500H+ B

Batch ID: R407189

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2

Batch ID: R407166

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.4.2

Batch ID: R407168

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW1010

Batch ID: R407060

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 NH3-B-F

Batch ID: 178013

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

CASE NARRATIVE

Client:	WCA	ANALYTICAL REPORT
Project:	FBRFL Leachate	WorkOrder:HS22040998
Sample ID:	Leachate-489949	Lab ID:HS22040998-01
Collection Date:	20-Apr-2022 11:35	Matrix:Water

ANALYSES	RESULT	QUAL MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW82	60C	Method:SW8260				Analyst: AKP
1,1,1-Trichloroethane	< 20	20	100	ug/L	100	21-Apr-2022 17:02
1,1,2,2-Tetrachloroethane	< 50	50	100	ug/L	100	21-Apr-2022 17:02
1,1,2-Trichlor-1,2,2-trifluoroethane	< 50	50	100	ug/L	100	21-Apr-2022 17:02
1,1,2-Trichloroethane	< 30	30	100	ug/L	100	21-Apr-2022 17:02
1,1-Dichloroethane	< 20	20	100	ug/L	100	21-Apr-2022 17:02
1,1-Dichloroethene	< 20	20	100	ug/L	100	21-Apr-2022 17:02
1,2,4-Trichlorobenzene	< 50	50	100	ug/L	100	21-Apr-2022 17:02
1,2-Dibromo-3-chloropropane	< 100	100	100	ug/L	100	21-Apr-2022 17:02
1,2-Dibromoethane	< 20	20	100	ug/L	100	21-Apr-2022 17:02
1,2-Dichlorobenzene	< 50	50	100	ug/L	100	21-Apr-2022 17:02
1,2-Dichloroethane	< 20	20	100	ug/L	100	21-Apr-2022 17:02
1,2-Dichloropropane	< 50	50	100	ug/L	100	21-Apr-2022 17:02
1,3-Dichlorobenzene	< 40	40	100	ug/L	100	21-Apr-2022 17:02
1,4-Dichlorobenzene	< 40	40	100	ug/L	100	21-Apr-2022 17:02
2-Butanone	< 50	50	200	ug/L	100	21-Apr-2022 17:02
2-Hexanone	< 100	100	200	ug/L	100	21-Apr-2022 17:02
4-Methyl-2-pentanone	< 70	70	200	ug/L	100	21-Apr-2022 17:02
Acetone	< 200	200	200	ug/L	100	21-Apr-2022 17:02
Benzene	< 20	20	100	ug/L	100	21-Apr-2022 17:02
Bromodichloromethane	< 20	20	100	ug/L	100	21-Apr-2022 17:02
Bromoform	< 40	40	100	ug/L	100	21-Apr-2022 17:02
Bromomethane	< 40	40	100	ug/L	100	21-Apr-2022 17:02
Carbon disulfide	< 60	60	200	ug/L	100	21-Apr-2022 17:02
Carbon tetrachloride	< 50	50	100	ug/L	100	21-Apr-2022 17:02
Chlorobenzene	< 30	30	100	ug/L	100	21-Apr-2022 17:02
Chloroethane	< 30	30	100	ug/L	100	21-Apr-2022 17:02
Chloroform	< 20	20	100	ug/L	100	21-Apr-2022 17:02
Chloromethane	< 20	20	100	ug/L	100	21-Apr-2022 17:02
cis-1,2-Dichloroethene	< 20	20	100	ug/L	100	21-Apr-2022 17:02
cis-1,3-Dichloropropene	< 10	10	100	ug/L	100	21-Apr-2022 17:02
Cyclohexane	< 30	n 30	100	ug/L	100	21-Apr-2022 17:02
Dibromochloromethane	< 30	30	100	ug/L	100	21-Apr-2022 17:02
Dichlorodifluoromethane	< 30	30	100	ug/L	100	21-Apr-2022 17:02
Ethylbenzene	< 30	30	100	ug/L	100	21-Apr-2022 17:02
Isopropylbenzene	< 30	30	100	ug/L	100	21-Apr-2022 17:02
m,p-Xylene	< 50	50	200	ug/L	100	21-Apr-2022 17:02
Methyl acetate	< 100	100	100	ug/L	100	21-Apr-2022 17:02
Methyl tert-butyl ether	< 20	20	100	ug/L	100	21-Apr-2022 17:02
Methylcyclohexane	< 30	30	100	ug/L	100	21-Apr-2022 17:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

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Client:	WCA	ANALYTICAL REPORT
Project:	FBRFL Leachate	WorkOrder:HS22040998
Sample ID:	Leachate-489949	Lab ID:HS22040998-01
Collection Date:	20-Apr-2022 11:35	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SV	/8260C	Method:	SW8260				Analyst: AKP
Methylene chloride	< 100		100	200	ug/L	100	21-Apr-2022 17:02
o-Xylene	< 30		30	100	ug/L	100	21-Apr-2022 17:02
Styrene	< 30		30	100	ug/L	100	21-Apr-2022 17:02
Tetrachloroethene	< 30		30	100	ug/L	100	21-Apr-2022 17:02
Toluene	< 20		20	100	ug/L	100	21-Apr-2022 17:02
trans-1,2-Dichloroethene	< 20		20	100	ug/L	100	21-Apr-2022 17:02
trans-1,3-Dichloropropene	< 20		20	100	ug/L	100	21-Apr-2022 17:02
Trichloroethene	< 20		20	100	ug/L	100	21-Apr-2022 17:02
Trichlorofluoromethane	< 30		30	100	ug/L	100	21-Apr-2022 17:02
Vinyl chloride	< 20		20	100	ug/L	100	21-Apr-2022 17:02
Xylenes, Total	< 30		30	100	ug/L	100	21-Apr-2022 17:02
Surr: 1,2-Dichloroethane-d4	87.5			70-126	%REC	100	21-Apr-2022 17:02
Surr: 4-Bromofluorobenzene	90.8			77-113	%REC	100	21-Apr-2022 17:02
Surr: Dibromofluoromethane	91.8			77-123	%REC	100	21-Apr-2022 17:02
Surr: Toluene-d8	102			82-127	%REC	100	21-Apr-2022 17:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.



Client:	WCA	ANALYTICAL REPORT
Project:	FBRFL Leachate	WorkOrder:HS22040998
Sample ID:	Leachate-489949	Lab ID:HS22040998-01
Collection Date:	20-Apr-2022 11:35	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:S	W8270		Prep:SW3510	/ 21-Apr-2022	Analyst: EM
1,1´-Biphenyl	< 0.024		0.024	0.20	ug/L	1	27-Apr-2022 12:42
2,4,5-Trichlorophenol	< 0.057		0.057	0.20	ug/L	1	27-Apr-2022 12:42
2,4,6-Trichlorophenol	< 0.048		0.048	0.20	ug/L	1	27-Apr-2022 12:42
2,4-Dichlorophenol	< 0.043		0.043	0.20	ug/L	1	27-Apr-2022 12:42
2,4-Dimethylphenol	< 0.040		0.040	0.20	ug/L	1	27-Apr-2022 12:42
2,4-Dinitrophenol	< 0.10		0.10	1.0	ug/L	1	27-Apr-2022 12:42
2,4-Dinitrotoluene	2.2		0.058	0.20	ug/L	1	27-Apr-2022 12:42
2,6-Dinitrotoluene	< 0.042		0.042	0.20	ug/L	1	27-Apr-2022 12:42
2-Chloronaphthalene	< 0.021		0.021	0.20	ug/L	1	27-Apr-2022 12:42
2-Chlorophenol	< 0.036		0.036	0.20	ug/L	1	27-Apr-2022 12:42
2-Methylnaphthalene	< 0.019		0.019	0.10	ug/L	1	27-Apr-2022 12:42
2-Methylphenol	< 0.045		0.045	0.20	ug/L	1	27-Apr-2022 12:42
2-Nitroaniline	< 0.041		0.041	0.20	ug/L	1	27-Apr-2022 12:42
2-Nitrophenol	< 0.034		0.034	0.20	ug/L	1	27-Apr-2022 12:42
3&4-Methylphenol	< 0.036		0.036	0.20	ug/L	1	27-Apr-2022 12:42
3,3'-Dichlorobenzidine	< 0.044		0.044	0.20	ug/L	1	27-Apr-2022 12:42
3-Nitroaniline	< 0.049		0.049	0.20	ug/L	1	27-Apr-2022 12:42
4,6-Dinitro-2-methylphenol	< 0.020		0.020	0.20	ug/L	1	27-Apr-2022 12:42
4-Bromophenyl phenyl ether	< 0.051		0.051	0.20	ug/L	1	27-Apr-2022 12:42
4-Chloro-3-methylphenol	< 0.032		0.032	0.20	ug/L	1	27-Apr-2022 12:42
4-Chloroaniline	5.1		0.039	0.20	ug/L	1	27-Apr-2022 12:42
4-Chlorophenyl phenyl ether	< 0.044		0.044	0.20	ug/L	1	27-Apr-2022 12:42
4-Nitroaniline	< 0.035		0.035	0.20	ug/L	1	27-Apr-2022 12:42
4-Nitrophenol	< 0.047		0.047	1.0	ug/L	1	27-Apr-2022 12:42
Acenaphthene	< 0.027		0.027	0.10	ug/L	1	27-Apr-2022 12:42
Acenaphthylene	< 0.015		0.015	0.10	ug/L	1	27-Apr-2022 12:42
Acetophenone	3.4		0.024	0.20	ug/L	1	27-Apr-2022 12:42
Anthracene	< 0.014		0.014	0.10	ug/L	1	27-Apr-2022 12:42
Atrazine	< 0.033		0.033	0.20	ug/L	1	27-Apr-2022 12:42
Benz(a)anthracene	< 0.050		0.050	0.10	ug/L	1	27-Apr-2022 12:42
Benzaldehyde	< 0.030	n	0.030	0.20	ug/L	1	27-Apr-2022 12:42
Benzo(a)pyrene	< 0.020		0.020	0.10	ug/L	1	27-Apr-2022 12:42
Benzo(b)fluoranthene	< 0.023		0.023	0.10	ug/L	1	27-Apr-2022 12:42
Benzo(g,h,i)perylene	< 0.014		0.014	0.10	ug/L	1	27-Apr-2022 12:42
Benzo(k)fluoranthene	< 0.019		0.019	0.10	ug/L	1	27-Apr-2022 12:42
Bis(2-chloroethoxy)methane	< 0.030		0.030	0.20	ug/L	1	27-Apr-2022 12:42
Bis(2-chloroethyl)ether	1.8		0.026	0.20	ug/L	1	27-Apr-2022 12:42
Bis(2-chloroisopropyl)ether	< 0.070		0.070	0.20	ug/L	1	27-Apr-2022 12:42
Bis(2-ethylhexyl)phthalate	3.2		0.037	0.20	ug/L	1	27-Apr-2022 12:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Client:	WCA	ANALYTICAL REPORT
Project:	FBRFL Leachate	WorkOrder:HS22040998
Sample ID:	Leachate-489949	Lab ID:HS22040998-01
Collection Date:	20-Apr-2022 11:35	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES B	SY 8270D	Method:	SW8270		Prep:SW3510 /	21-Apr-2022	Analyst: EM
Butyl benzyl phthalate	< 0.019		0.019	0.20	ug/L	1	27-Apr-2022 12:42
Caprolactam	< 0.045		0.045	0.20	ug/L	1	27-Apr-2022 12:42
Carbazole	< 0.025		0.025	0.20	ug/L	1	27-Apr-2022 12:42
Chrysene	< 0.021		0.021	0.10	ug/L	1	27-Apr-2022 12:42
Di-n-butyl phthalate	< 0.020		0.020	0.20	ug/L	1	27-Apr-2022 12:42
Di-n-octyl phthalate	< 0.020		0.020	0.20	ug/L	1	27-Apr-2022 12:42
Dibenz(a,h)anthracene	< 0.024		0.024	0.10	ug/L	1	27-Apr-2022 12:42
Dibenzofuran	< 0.020		0.020	0.10	ug/L	1	27-Apr-2022 12:42
Diethyl phthalate	< 0.030		0.030	0.20	ug/L	1	27-Apr-2022 12:42
Dimethyl phthalate	< 0.041		0.041	0.20	ug/L	1	27-Apr-2022 12:42
Fluoranthene	0.62		0.010	0.10	ug/L	1	27-Apr-2022 12:42
Fluorene	< 0.030		0.030	0.10	ug/L	1	27-Apr-2022 12:42
Hexachlorobenzene	< 0.044		0.044	0.20	ug/L	1	27-Apr-2022 12:42
Hexachlorobutadiene	< 0.030		0.030	0.20	ug/L	1	27-Apr-2022 12:42
Hexachlorocyclopentadiene	< 0.030		0.030	0.20	ug/L	1	27-Apr-2022 12:42
Hexachloroethane	< 0.059		0.059	0.20	ug/L	1	27-Apr-2022 12:42
Indeno(1,2,3-cd)pyrene	< 0.022		0.022	0.10	ug/L	1	27-Apr-2022 12:42
Isophorone	< 0.025		0.025	0.20	ug/L	1	27-Apr-2022 12:42
N-Nitrosodi-n-propylamine	0.66		0.032	0.20	ug/L	1	27-Apr-2022 12:42
N-Nitrosodiphenylamine	< 0.025		0.025	0.20	ug/L	1	27-Apr-2022 12:42
Naphthalene	< 0.020		0.020	0.10	ug/L	1	27-Apr-2022 12:42
Nitrobenzene	< 0.024		0.024	0.20	ug/L	1	27-Apr-2022 12:42
Pentachlorophenol	< 0.079		0.079	0.20	ug/L	1	27-Apr-2022 12:42
Phenanthrene	0.38		0.021	0.10	ug/L	1	27-Apr-2022 12:42
Phenol	< 0.035		0.035	0.20	ug/L	1	27-Apr-2022 12:42
Pyrene	0.35		0.019	0.10	ug/L	1	27-Apr-2022 12:42
Pyridine	< 0.030		0.030	1.0	ug/L	1	27-Apr-2022 12:42
Surr: 2,4,6-Tribromophenol	94.7			34-129	%REC	1	27-Apr-2022 12:42
Surr: 2-Fluorobiphenyl	51.9			40-125	%REC	1	27-Apr-2022 12:42
Surr: 2-Fluorophenol	53.0			20-120	%REC	1	27-Apr-2022 12:42
Surr: 4-Terphenyl-d14	25.6	S		40-135	%REC	1	27-Apr-2022 12:42
Surr: Nitrobenzene-d5	46.6			41-120	%REC	1	27-Apr-2022 12:42
Surr: Phenol-d6	66.4			20-120	%REC	1	27-Apr-2022 12:42

Revision: 1

ANALYTICAL REPORT

WorkOrder:HS22040998

Matrix:Water

Lab ID:HS22040998-01

Client:	WCA
Project:	FBRFL Leachate
Sample ID:	Leachate-489949
Collection Date:	20-Apr-2022 11:35

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ORGANOCHLORINE PESTICIDES SW8081B	S BY	Metho	d:SW8081		Prep:SW3510C /	21-Apr-2022	Analyst: JBA
4,4´-DDD	< 0.000080		0.0000080	0.00010	mg/L	1	25-Apr-2022 17:17
4,4´-DDE	0.0000060	J	0.0000040	0.00010	mg/L	1	25-Apr-2022 17:17
4,4'-DDT	< 0.0000070		0.0000070	0.00010	mg/L	1	25-Apr-2022 17:17
Aldrin	< 0.000010		0.000010	0.000050	mg/L	1	25-Apr-2022 17:17
alpha-BHC	0.000026	J	0.000010	0.000050	mg/L	1	25-Apr-2022 17:17
alpha-Chlordane	< 0.000020		0.000020	0.000050	mg/L	1	25-Apr-2022 17:17
beta-BHC	< 0.000010		0.000010	0.000050	mg/L	1	25-Apr-2022 17:17
delta-BHC	< 0.000010		0.000010	0.000050	mg/L	1	25-Apr-2022 17:17
Dieldrin	0.000020	J	0.000010	0.00010	mg/L	1	25-Apr-2022 17:17
Endosulfan I	0.00026		0.000010	0.000050	mg/L	1	25-Apr-2022 17:17
Endosulfan II	< 0.000020		0.000020	0.00010	mg/L	1	25-Apr-2022 17:17
Endosulfan sulfate	< 0.000030		0.000030	0.00010	mg/L	1	25-Apr-2022 17:17
Endrin	< 0.000030		0.000030	0.00010	mg/L	1	25-Apr-2022 17:17
Endrin aldehyde	< 0.000030		0.000030	0.00010	mg/L	1	25-Apr-2022 17:17
Endrin ketone	< 0.000030		0.000030	0.00010	mg/L	1	25-Apr-2022 17:17
gamma-BHC	0.000091		0.000010	0.000050	mg/L	1	25-Apr-2022 17:17
gamma-Chlordane	0.000041	J	0.000020	0.000050	mg/L	1	25-Apr-2022 17:17
Heptachlor	0.000034	J	0.000010	0.000050	mg/L	1	25-Apr-2022 17:17
Heptachlor epoxide	< 0.000010		0.000010	0.000050	mg/L	1	25-Apr-2022 17:17
Methoxychlor	< 0.00015		0.00015	0.00050	mg/L	1	25-Apr-2022 17:17
Toxaphene	< 0.00019		0.00019	0.00050	mg/L	1	25-Apr-2022 17:17
Surr: Decachlorobiphenyl	83.3			54.9-145	%REC	1	25-Apr-2022 17:17
Surr: Tetrachloro-m-xylene	94.8			51.5-142	%REC	1	25-Apr-2022 17:17
CHLORINATED HERBICIDES BY SW8151A		Metho	d:SW8151		Prep:SW8151 / 2	1-Apr-2022	Analyst: JBA
2,4,5-T	< 0.0000500		0.0000500	0.000200	mg/L	1	25-Apr-2022 20:20
2,4,5-TP (Silvex)	0.0000597	J	0.0000500	0.000200	mg/L	1	25-Apr-2022 20:20
2,4-D	0.000210	Р	0.0000600	0.000200	mg/L	1	25-Apr-2022 20:20
2,4-DB	< 0.0000800		0.0000800	0.000400	mg/L	1	25-Apr-2022 20:20
Dalapon	< 0.0000700		0.0000700	0.000200	mg/L	1	25-Apr-2022 20:20
Dicamba	< 0.0000500		0.0000500	0.000200	mg/L	1	25-Apr-2022 20:20
Dichlorprop	0.000390	J	0.0000800	0.000400	mg/L	1	25-Apr-2022 20:20
Dinoseb	< 0.0000500		0.0000500	0.000300	mg/L	1	25-Apr-2022 20:20
MCPA	0.0141	J	0.00810	0.0300	mg/L	1	25-Apr-2022 20:20
MCPP	< 0.00810		0.00810	0.0300	mg/L	1	25-Apr-2022 20:20
Surr: DCAA	115			50-130	%REC	1	25-Apr-2022 20:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Client:	WCA	ANALYTICAL REPORT
Project:	FBRFL Leachate	WorkOrder:HS22040998
Sample ID:	Leachate-489949	Lab ID:HS22040998-01
Collection Date:	20-Apr-2022 11:35	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A	N	Method:SW1311/6020		Leache:SW1311 / 20-Apr-2022	Prep:SW3010A	Prep:SW3010A / 22-Apr-2022	
Arsenic	0.509		0.00800	0.100	mg/L	2	23-Apr-2022 12:04
Barium	0.813 0.0380		0.400	mg/L	2	23-Apr-2022 12:04	
Cadmium	< 0.00400		0.00400	0.100	mg/L	2	23-Apr-2022 12:04
Chromium	1.37		0.00800	0.100	mg/L	2	23-Apr-2022 12:04
Lead	< 0.0120		0.0120	0.100	mg/L	2	23-Apr-2022 12:04
Selenium	< 0.0220		0.0220	0.100	mg/L	2	23-Apr-2022 12:04
Silver	< 0.00400		0.00400	0.100	mg/L	2	23-Apr-2022 12:04
TCLP MERCURY BY SW7470A		Method:	SW7470A	Leache:SW1311 / 20-Apr-2022	Prep:SW7470A	/ 21-Apr-2022	Analyst: MSC
Mercury	< 0.000300		0.000300	0.00200	mg/L	1	21-Apr-2022 16:25
AMMONIA AS N BY SM4500 NH3- 2011	B-F- Me	thod:SM	4500 NH3-B-F		Prep:M4500-NH	I3 B / 22-Apr-2	022 Analyst: AP
Nitrogen, Ammonia (as N)	5,100		250	500	mg/L	1	22-Apr-2022 15:52
PH BY SM4500H+ B-2011	Ν	/lethod:S	M4500H+ B				Analyst: JAC
рН	8.58	Н	0.100	0.100	pH Units	1	22-Apr-2022 16:28
Temp Deg C @pH	22.8	Н	0	0	°C	1	22-Apr-2022 16:28
FLASH POINT BY PENSKY-MART SW1010A	ENS	Method	:SW1010				Analyst: TH
Ignitability	> 212		70.0	70.0	°F	1	21-Apr-2022 13:00
REACTIVE CYANIDE		Method:	SW7.3.3.2				Analyst: JHD
Reactive Cyanide	< 100	n	100	100	mg/Kg	1	22-Apr-2022 14:30
REACTIVE SULFIDE		Method:	SW7.3.4.2				Analyst: JHD
Reactive Sulfide	< 100	n	100	100	mg/Kg	1	22-Apr-2022 15:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.



Client: WCA Project: FBRFL Leach	nate				
WorkOrder: HS22040998					
Batch ID: 177902		Start Dat	e: 20 Apr 202	2 13:00	End Date: 20 Apr 2022 19:00
Method: TCLP MERCURY	EXTRACTIO	N BY SW13	11		Prep Code: 1311LHG EXT
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22040998-01		100 (grams)	2000 (mL)	20	250 mL plastic, Neat
Batch ID: 177903		Start Dat	e: 20 Apr 202	2 13:00	End Date: 20 Apr 2022 19:00
Method: TCLP METALS E	XTRACTION	BY SW1311			Prep Code: 1311LM EXT
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22040998-01		100 (grams)	2000 (mL)	20	250 mL plastic, Neat
Batch ID: 177912		Start Dat	e: 21 Apr 202	2 06:30	End Date: 21 Apr 2022 15:00
Method: HERBICIDE AQ S	SEP FUN EXT	RACT-SW8	151		Prep Code: 3510_H
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22040998-01	1	1000 (mL)	10 (mL)	0.01	1-liter amber glass, Neat
Batch ID: 177913		Start Dat	e: 21 Apr 202	2 07:00	End Date: 21 Apr 2022 13:00
Method: PEST AQ SEP FU	JN EXTRACT	-SW3510C			Prep Code: 3510_P
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22040998-01	1	1000 (mL)	10 (mL)	0.01	1-liter amber glass, Neat
Batch ID: 177915		Start Dat	e: 21 Apr 202	2 10:32	End Date: 21 Apr 2022 14:00
Method: SV AQ SEP FUN	EXTRACT-LO	OWLEV - 35	10C		Prep Code: 3510_B_LOW
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22040998-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
Batch ID: 177940		Start Dat	e: 21 Apr 202	2 12:00	End Date: 21 Apr 2022 15:00
Method: MERCURY TCLF	PREP BY SV	N7470A			Prep Code: 1311_HGPR
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22040998-01		1 (mL)	10 (mL)	10	250 mL plastic, Neat
Batch ID: 177991		Start Dat	e: 22 Apr 202	2 14:00	End Date: 22 Apr 2022 18:00
Method: TCLP LEACHATE	E DIGESTION	BY SW301	A		Prep Code: 3010A_TCLP
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22040998-01		1 (mL)	10 (mL)	10	250 mL plastic, Neat
Batch ID: 178013		Start Dat	e: 22 Apr 202	2 10:50	End Date: 22 Apr 2022 12:05
Method: NITROGEN AMM	IONIA - WATE	ER - PREP			Prep Code: NIT_AMM_W_PR
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22040998-01		0.0025 (mL)	25 (mL)	10000	250 mL plastic, H2SO4 to pH <2

Weight / Prep Log

1

Client: Project: WorkOrder:	WCA FBRFL Le HS22040					DATES RE	PORT
Sample ID	Client Samp	ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 177912	(0) 1	Test Name :	CHLORINATED HERBI	CIDES BY SW8151A		Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35		21 Apr 2022 10:30	25 Apr 2022 20:20	1
Batch ID: 177913	(0) 1	Test Name :	ORGANOCHLORINE P	ESTICIDES BY SW80	81B	Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35		21 Apr 2022 10:31	25 Apr 2022 17:17	1
Batch ID: 177915	(0) 1	Test Name :	LOW-LEVEL SEMIVOL	ATILES BY 8270D		Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35		21 Apr 2022 10:32	27 Apr 2022 12:42	1
Batch ID: 177940	(0) 1	Test Name :	TCLP MERCURY BY S	W7470A		Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35	20 Apr 2022 19:00	21 Apr 2022 12:00	21 Apr 2022 16:25	1
Batch ID: 177991	(0) 1	Test Name :	TCLP METALS BY SW	5020A		Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35	20 Apr 2022 19:00	22 Apr 2022 14:00	23 Apr 2022 12:04	2
Batch ID: 178013	(0) 1	Test Name :	AMMONIA AS N BY SM	14500 NH3-B-F-2011		Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35		22 Apr 2022 10:50	22 Apr 2022 15:52	1
Batch ID: R40706	D(0) T	Test Name :	FLASH POINT BY PEN	SKY-MARTENS SW10)10A	Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35			21 Apr 2022 13:00	1
Batch ID: R407112	2(0) 1	Test Name :	LOW LEVEL VOLATILE	S BY SW8260C		Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35			21 Apr 2022 17:02	100
Batch ID: R40716	6(0) 1	Test Name :	REACTIVE CYANIDE			Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35			22 Apr 2022 14:30	1
Batch ID: R407168	B(0) 1	Test Name :	REACTIVE SULFIDE			Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35			22 Apr 2022 15:10	1
Batch ID: R40718	9(0)	Test Name :	PH BY SM4500H+ B-20	011		Matrix: Water	
HS22040998-01	Leachate-489	949	20 Apr 2022 11:35			22 Apr 2022 16:28	1

WCA **Client: QC BATCH REPORT Project: FBRFL** Leachate WorkOrder: HS22040998 Method: CHLORINATED HERBICIDES BY SW8151A Batch ID: 177912 (0) Instrument: ECD_15 MBLK Sample ID: MBLK-177912 Units: ug/L Analysis Date: 25-Apr-2022 20:55 Client ID: PrepDate: 21-Apr-2022 Run ID: ECD_15_407328 SeqNo: 6617812 DF: 1 SPK Ref Control **RPD** Ref RPD Analyte Result PQL SPK Val Value %REC %RPD Limit Qual Limit Value 2,4,5-T < 0.0500 0.200 2,4,5-TP (Silvex) < 0.0500 0.200 2,4-D < 0.0600 0.200 2,4-DB 0.400 < 0.0800 Dalapon < 0.0700 0.200 Dicamba < 0.0500 0.200 0.400 Dichlorprop < 0.0800 < 0.0500 0.300 Dinoseb MCPA 30.0 < 8.10 MCPP 30.0 < 8.10 Surr: DCAA 4.307 0 5 0 86.1 50 - 130 LCS Sample ID: LCS-177912 Units: ug/L Analysis Date: 25-Apr-2022 20:38 Client ID: Run ID: ECD_15_407328 SeqNo: 6617811 PrepDate: 21-Apr-2022 DF: 1 SPK Ref RPD Ref Control RPD Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Qual 2,4,5-T 2.688 0.200 2.5 0 108 44 - 122 2,4,5-TP (Silvex) 2.87 0.200 2.5 0 115 49 - 126 2,4-D 2.86 0.200 2.5 0 114 39 - 120 2,4-DB 2.802 0.400 2.5 0 112 44 - 120 2.5 2.545 0.200 0 102 40 - 120 Dalapon Dicamba 2.667 0.200 2.5 0 107 60 - 120 2.847 0.400 2.5 0 68 - 122 Dichlorprop 114 Dinoseb 2.726 0.300 2.5 0 109 28 - 115 MCPA 30.0 250 93.0 62 - 144 232.5 0 MCPP 309.3 30.0 250 0 124 60 - 133 Surr: DCAA 5.077 0 5 0 102 50 - 130

ALS Houston, US

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

QC BATCH REPORT

Batch ID: 17791	2(0)	In	strument:	ECD_15	M	ethod: C	HLORINAT	ED HERBICII	DES BY S	W8151A
LCSD	Sample ID:	LCSD-177912		Units:	ug/L	Ana	alysis Date:	25-Apr-2022	21:13	
Client ID:			Run ID: ECD	_15_407328	SeqNo: 6	617813	PrepDate:	21-Apr-2022	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	R %RPD Li	PD mit Qual
2,4,5-T		2.934	0.200	2.5	0	117	44 - 122	2.688	8.73	30
2,4,5-TP (Silvex)		2.85	0.200	2.5	0	114	49 - 126	2.87	0.703	30
2,4-D		2.759	0.200	2.5	0	110	39 - 120	2.86	3.59	30
2,4-DB		2.888	0.400	2.5	0	116	44 - 120	2.802	3.03	30
Dalapon		2.737	0.200	2.5	0	109	40 - 120	2.545	7.26	30
Dicamba		2.636	0.200	2.5	0	105	60 - 120	2.667	1.16	30
Dichlorprop		2.826	0.400	2.5	0	113	68 - 122	2.847	0.751	30
Dinoseb		2.727	0.300	2.5	0	109	28 - 115	2.726	0.0466	30
MCPA		219	30.0	250	0	87.6	62 - 144	232.5	5.99	30
MCPP		315.4	30.0	250	0	126	60 - 133	309.3	1.94	30
Surr: DCAA		4.978	0	5	0	99.6	50 - 130	5.077	1.96	30

QC BATCH REPORT

Batch ID: 177913 (0))	Instrument:			ECD_11 Metho				ethod: ORGANOCHLORINE PESTICIDES BY SW8081B				
MBLK Sa	ample ID:	MBLK-177913		CD	Units:	-	664		•	25-Apr-2022			
Client ID:			Run ID: E	CD_	_11_407312	SeqNo: SPK Re		/396	PrepDate: Control	21-Apr-2022		-: 1 RPD	
Analyte		Result	PC	λΓ	SPK Val	Value		6REC	Limit	Value		Limit Qual	
4,4´-DDD		< 0.0080	0.1	10									
4,4'-DDE		< 0.0040	0.1	10									
4,4´-DDT		< 0.0070	0.1	10									
Aldrin		< 0.010	0.0	50									
alpha-BHC		< 0.010	0.0	50									
alpha-Chlordane		< 0.020	0.0	50									
beta-BHC		< 0.010	0.0	50									
delta-BHC		< 0.010	0.0	50									
Dieldrin		< 0.010	0.1	10									
Endosulfan I		< 0.010	0.0	50									
Endosulfan II		< 0.020	0.1	10									
Endosulfan sulfate		< 0.030	0.1	10									
Endrin		< 0.030	0.1	10									
Endrin aldehyde		< 0.030	0.1	10									
Endrin ketone		< 0.030	0.1	10									
gamma-BHC		< 0.010	0.0	50									
gamma-Chlordane		< 0.020	0.0	50									
Heptachlor		< 0.010	0.0	50									
Heptachlor epoxide		< 0.010	0.0	50									
Methoxychlor		< 0.15	0.5	50									
Toxaphene		< 0.19	0.5	50									
Surr: Decachlorobiphe	nyl	0.1838		0	0.2	()	91.9	54.9 - 145				
Surr: Tetrachloro-m-xy	lene	0.2034		0	0.2	C)	102	51.5 - 142				

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

Batch ID: 177913 ((0)	In	strument:	ECD_11	M		ORGANOCH SW8081B	LORINE PES	TICIDES BY
LCS	Sample ID:	LCS-177913		Units	: ug/L	Ana	alysis Date:	25-Apr-2022	17:39
Client ID:			Run ID: ECD	_11_407312	SeqNo: 6	617394	PrepDate:	21-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
4,4´-DDD		0.5389	0.10	0.5	0	108	53 - 144		
4,4'-DDE		0.5138	0.10	0.5	0	103	55 - 144		
4,4´-DDT		0.497	0.10	0.5	0	99.4	53 - 149		
Aldrin		0.2516	0.050	0.25	0	101	47 - 141		
alpha-BHC		0.259	0.050	0.25	0	104	51 - 141		
alpha-Chlordane		0.244	0.050	0.25	0	97.6	55 - 141		
beta-BHC		0.2613	0.050	0.25	0	105	58 - 144		
delta-BHC		0.2522	0.050	0.25	0	101	48 - 146		
Dieldrin		0.4992	0.10	0.5	0	99.8	56 - 144		
Endosulfan I		0.2305	0.050	0.25	0	92.2	55 - 141		
Endosulfan II		0.4882	0.10	0.5	0	97.6	57 - 144		
Endosulfan sulfate		0.5082	0.10	0.5	0	102	58 - 145		
Endrin		0.5025	0.10	0.5	0	100	60 - 163		
Endrin aldehyde		0.4974	0.10	0.5	0	99.5	59 - 158		
Endrin ketone		0.552	0.10	0.5	0	110	59 - 154		
gamma-BHC		0.25	0.050	0.25	0	100	53 - 142		
gamma-Chlordane		0.2548	0.050	0.25	0	102	55 - 137		
Heptachlor		0.2476	0.050	0.25	0	99.0	51 - 144		
Heptachlor epoxide		0.2508	0.050	0.25	0	100	55 - 142		
Methoxychlor		2.21	0.50	2.5	0	88.4	59 - 150		
Surr: Decachlorobiph	nenyl	0.1724	0	0.2	0	86.2	54.9 - 145		
Surr: Tetrachloro-m->	kylene	0.1938	0	0.2	0	96.9	51.5 - 142		

QC BATCH REPORT

Batch ID: 177913 (0)

LCSD

Client ID:

Analyte

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

HS2	2040998							
3(0)	Instrum	nent: E	CD_11	Me	emou.	ORGANOCH SW8081B	LORINE PES	TICIDES BY
Sample ID:	LCSD-177913		Units:	•			25-Apr-2022	
	Run I	D: ECD_	11_407312	SeqNo: 6	61/395	PrepDate:	21-Apr-2022	DF: 1
	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit		RPD %RPD Limit Qual
	0.5775	0.10	0.5	0	116	53 - 144	0.5389	6.92 20
	0.5378	0.10	0.5	0	108	55 - 144	0.5138	4.55 20
	0.5208	0.10	0.5	0	104	53 - 149	0.497	4.68 20

4,4´-DDD	0.5775	0.10	0.5	0	116	53 - 144	0.5389	6.92 20
4,4´-DDE	0.5378	0.10	0.5	0	108	55 - 144	0.5138	4.55 20
4,4´-DDT	0.5208	0.10	0.5	0	104	53 - 149	0.497	4.68 20
Aldrin	0.2641	0.050	0.25	0	106	47 - 141	0.2516	4.84 20
alpha-BHC	0.2703	0.050	0.25	0	108	51 - 141	0.259	4.28 20
alpha-Chlordane	0.2582	0.050	0.25	0	103	55 - 141	0.244	5.64 20
beta-BHC	0.2597	0.050	0.25	0	104	58 - 144	0.2613	0.603 20
delta-BHC	0.2578	0.050	0.25	0	103	48 - 146	0.2522	2.23 20
Dieldrin	0.539	0.10	0.5	0	108	56 - 144	0.4992	7.68 20
Endosulfan I	0.2348	0.050	0.25	0	93.9	55 - 141	0.2305	1.87 20
Endosulfan II	0.5066	0.10	0.5	0	101	57 - 144	0.4882	3.7 20
Endosulfan sulfate	0.5376	0.10	0.5	0	108	58 - 145	0.5082	5.63 20
Endrin	0.5416	0.10	0.5	0	108	60 - 163	0.5025	7.5 20
Endrin aldehyde	0.5166	0.10	0.5	0	103	59 - 158	0.4974	3.79 20
Endrin ketone	0.5837	0.10	0.5	0	117	59 - 154	0.552	5.59 20
gamma-BHC	0.2622	0.050	0.25	0	105	53 - 142	0.25	4.75 20
gamma-Chlordane	0.2569	0.050	0.25	0	103	55 - 137	0.2548	0.817 20
Heptachlor	0.2518	0.050	0.25	0	101	51 - 144	0.2476	1.69 20
Heptachlor epoxide	0.2552	0.050	0.25	0	102	55 - 142	0.2508	1.74 20
Methoxychlor	2.38	0.50	2.5	0	95.2	59 - 150	2.21	7.41 20
Surr: Decachlorobiphenyl	0.1815	0	0.2	0	90.8	54.9 - 145	0.1724	5.15 20
Surr: Tetrachloro-m-xylene	0.1972	0	0.2	0	98.6	51.5 - 142	0.1938	1.76 20

The following samples were analyzed in this batch: HS22040998-01

QC BATCH REPORT

WCA **Client: QC BATCH REPORT Project: FBRFL** Leachate WorkOrder: HS22040998 Batch ID: 177940 (0) Instrument: **HG03** Method: TCLP MERCURY BY SW7470A MBLK Sample ID: MBLKT2-177940 Units: mg/L Analysis Date: 21-Apr-2022 16:13 PrepDate: 21-Apr-2022 Client ID: Run ID: HG03_407081 SeqNo: 6612250 DF·1 SPK Ref Control **RPD** Ref RPD PQL SPK Val %REC %RPD Limit Qual Analyte Result Value Limit Value < 0.0000300 0.000200 Mercury MBLK Sample ID: MBLKT4-177940 Analysis Date: 21-Apr-2022 16:17 Units: mg/L Client ID: Run ID: HG03 407081 SeqNo: 6612252 PrepDate: 21-Apr-2022 DF: 1 SPK Ref Control **RPD** Ref RPD Value %RPD Limit Qual Analyte Result PQL SPK Val Value %REC Limit < 0.0000300 0.000200 Mercury MBLK Analysis Date: 21-Apr-2022 16:15 Sample ID: MBLKT3-177940 Units: mg/L Client ID: Run ID: HG03 407081 SeqNo: 6612251 PrepDate: 21-Apr-2022 DF: 1 SPK Ref Control RPD Ref RPD Value %RPD Limit Qual Result PQL SPK Val %REC Analyte Value Limit Mercury < 0.0000300 0.000200 MBLK Sample ID: MBLKT1-177940 Units: mg/L Analysis Date: 21-Apr-2022 16:06 Run ID: HG03_407081 SeqNo: 6612247 PrepDate: 21-Apr-2022 DF: 1 Client ID: SPK Ref Control RPD Ref RPD Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Qual Mercury < 0.0000300 0.000200 MBLK Sample ID: Units: mg/L Analysis Date: 21-Apr-2022 16:05 MBLK-177940 Run ID: HG03_407081 Client ID: SeqNo: 6612246 PrepDate: 21-Apr-2022 DF: 1 SPK Ref Control **RPD** Ref RPD Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Qual < 0.0000300 0.000200 Mercury LCS Sample ID: LCS-177940 Units: mg/L Analysis Date: 21-Apr-2022 16:19 Client ID: Run ID: HG03_407081 SeqNo: 6612253 PrepDate: 21-Apr-2022 DF: 1 SPK Ref Control RPD Ref RPD %RPD Limit Qual PQL SPK Val %REC Value Analyte Result Value Limit 0.00472 0.000200 0.005 0 94.4 80 - 120 Mercury

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

QC BATCH REP	ORT
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Batch ID:	177940 (0)	Inst	rument:	HG03	М	ethod: 1		JRY BY SW7	470A	
MS	Sample ID:	HS22040830-01M	5	Units:	mg/L	Ana	alysis Date:	21-Apr-2022	16:22	
Client ID:		R	un ID: HG0	3_407081	SeqNo: 6	612255	PrepDate:	21-Apr-2022	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit C	Jual
Mercury		0.0064	0.000200	0.005	-0.000018	128	75 - 125			ç
MSD	Sample ID:	HS22040830-01M	SD	Units:	mg/L	Ana	alysis Date:	21-Apr-2022	16:24	
Client ID:		R	un ID: HG0	3_407081	SeqNo: 6	612256	PrepDate:	21-Apr-2022	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit G	Jual
Mercury		0.00629	0.000200	0.005	-0.000018	126	75 - 125	0.0064	1.73 20	:
The followin	g samples were analyze	ed in this batch: HS22	040998-01							

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

Batch ID:	177991(0)	Ins	strument:	ICPMS06	М	lethod:		LS BY SW60	20A
MBLK	Sample ID:	MBLKT2-177991		Units:	mg/L	An	alysis Date:	22-Apr-2022	21:27
Client ID:		I	Run ID: ICP	MS06_407149	SeqNo: (6614977	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		< 0.00400	0.0500						
Barium		< 0.0190	0.200						
Cadmium		< 0.00200	0.0500						
Chromium		< 0.00400	0.0500						
Lead		< 0.00600	0.0500						
Selenium		< 0.0110	0.0500						
Silver		< 0.00200	0.0500						
MBLK	Sample ID:	MBLKT4-177991		Units:	mg/L	An	alysis Date:	22-Apr-2022	21:31
Client ID:		I	Run ID: ICP	MS06_407149	SeqNo: (6614979	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		< 0.00400	0.0500						
Barium		< 0.0190	0.200						
Cadmium		< 0.00200	0.0500						
Chromium		< 0.00400	0.0500						
Lead		< 0.00600	0.0500						
Selenium		< 0.0110	0.0500						
Silver		< 0.00200	0.0500						
MBLK	Sample ID:	MBLKT6-177991		Units:	mg/L	An	alysis Date:	22-Apr-2022	21:35
Client ID:		I	Run ID: ICP	MS06_407149	SeqNo:	6614981	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		< 0.00400	0.0500						
Barium		< 0.0190	0.200						
Cadmium		< 0.00200	0.0500						
Chromium		< 0.00400	0.0500						
Lead		< 0.00600	0.0500						
Selenium		< 0.0110	0.0500						
Silver		< 0.00200	0.0500						

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Batch ID:	177991(0)	Ins	strument:	ICPMS06	Ν	Method:		LS BY SW60	20A
MBLK	Sample ID:	MBLKT7-177991		Units:	mg/L	An	alysis Date:	22-Apr-2022	21:37
Client ID:		l	Run ID: ICP	MS06_407149	SeqNo:	6614982	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		< 0.00400	0.0500						
Barium		< 0.0190	0.200						
Cadmium		< 0.00200	0.0500						
Chromium		< 0.00400	0.0500						
Lead		< 0.00600	0.0500						
Selenium		< 0.0110	0.0500						
Silver		< 0.00200	0.0500						
MBLK	Sample ID:	MBLKT5-177991		Units:	mg/L	An	alysis Date:	22-Apr-2022	21:33
Client ID:		I	Run ID: ICP	MS06_407149	SeqNo:	6614980	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		< 0.00400	0.0500						
Barium		< 0.0190	0.200						
Cadmium		< 0.00200	0.0500						
Chromium		< 0.00400	0.0500						
Lead		< 0.00600	0.0500						
Selenium		< 0.0110	0.0500						
Silver		< 0.00200	0.0500						
MBLK	Sample ID:	MBLKT3-177991		Units:	mg/L	An	alysis Date:	22-Apr-2022	21:29
Client ID:		l	Run ID: ICP	MS06_407149	SeqNo:	6614978	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		< 0.00400	0.0500						
Barium		< 0.0190	0.200						
Cadmium		< 0.00200	0.0500						
Chromium		< 0.00400	0.0500						
Lead		< 0.00600	0.0500						
Selenium		< 0.0110	0.0500						
Silver		< 0.00200	0.0500						

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Batch ID.	177991 (0)	Ins	strument:	ICPMS06	Μ	lethod: 1		LS BY SW60	20A
MBLK	Sample ID:	MBLKT1-177991		Units:	mg/L	Ana	alysis Date:	22-Apr-2022	21:25
Client ID:		I	Run ID: ICP	MS06_407149	SeqNo: 6	6614976	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		< 0.00400	0.0500						
Barium		< 0.0190	0.200						
Cadmium		< 0.00200	0.0500						
Chromium		< 0.00400	0.0500						
Lead		< 0.00600	0.0500						
Selenium		< 0.0110	0.0500						
Silver		< 0.00200	0.0500						
MBLK	Sample ID:	MBLK-177991		Units:	mg/L	An	alysis Date:	22-Apr-2022	21:23
Client ID:		I	Run ID: ICP	MS06_407149	SeqNo: 6	6614975	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		< 0.000400	0.00500						
Barium		< 0.00190	0.0200						
Cadmium		< 0.000200	0.00500						
Chromium		< 0.000400	0.00500						
Lead		< 0.000600	0.00500						
Selenium		< 0.00110	0.00500						
Silver		< 0.000200	0.00500						
LCS	Sample ID:	LCS-177991		Units:	mg/L	Ana	alysis Date:	22-Apr-2022	21:39
Client ID:		I	Run ID: ICP	MS06_407149	SeqNo: 6	6614983	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Arsenic		0.0524	0.00500	0.05	0	105	80 - 120		
Barium		0.04916	0.0200	0.05	0	98.3	80 - 120		
Cadmium		0.05229	0.00500	0.05	0	105	80 - 120		
Chromium		0.05005	0.00500	0.05	0	100	80 - 120		
Lead		0.05011	0.00500	0.05	0	100	80 - 120		
Selenium		0.05672	0.00500	0.05	0	113	80 - 120		
Silver		0.05121	0.00500		0	102	80 - 120		

Date: 17-May-22

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Batch ID:	177991(0)	Inst	trument:	ICPMS06	M	ethod: T	CLP META	LS BY SW602	20A
MS	Sample ID:	HS22040499-01M	S	Units:	mg/L	Ana	alysis Date:	22-Apr-2022	21:48
Client ID:		R	un ID: ICPN	IS06_407149	SeqNo: 6	614988	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.5414	0.0500	0.5	0.00138	108	80 - 120		
Barium		1.428	0.200	0.5	0.9092	104	80 - 120		
Cadmium		0.5196	0.0500	0.5	0.00078	104	80 - 120		
Chromium		0.503	0.0500	0.5	0.00104	100	80 - 120		
Lead		0.5373	0.0500	0.5	0.02133	103	80 - 120		
Selenium		0.5699	0.0500	0.5	-0.00034	114	80 - 120		
Silver		0.4964	0.0500	0.5	0.00009	99.3	80 - 120		
MSD	Sample ID:	HS22040499-01M	SD	Units:	mg/L	Ana	alysis Date:	22-Apr-2022	21:50
Client ID:		R	un ID: ICPN	IS06_407149	SeqNo: 6	614989	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.5477	0.0500	0.5	0.00138	109	80 - 120	0.5414	1.17 20
Barium		1.457	0.200	0.5	0.9092	110	80 - 120	1.428	1.97 20
Cadmium		0.5172	0.0500	0.5	0.00078	103	80 - 120	0.5196	0.469 20
Chromium		0.5166	0.0500	0.5	0.00104	103	80 - 120	0.503	2.65 20
Lead		0.5497	0.0500	0.5	0.02133	106	80 - 120	0.5373	2.28 20
Selenium		0.5779	0.0500	0.5	-0.00034	116	80 - 120	0.5699	1.39 20
Silver		0.5009	0.0500	0.5	0.00009	100	80 - 120	0.4964	0.9 20
PDS	Sample ID:	HS22040499-01PI	DS	Units:	mg/L	Ana	alysis Date:	22-Apr-2022	21:52
Client ID:		R	un ID: ICPN	IS06_407149	SeqNo: 6	614990	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		1.116	0.0500	1	0.00138	111	75 - 125		
Barium		1.981	0.200	1	0.9092	107	75 - 125		
Cadmium		1.054	0.0500	1	0.00078	105	75 - 125		
Chromium		1.03	0.0500	1	0.00104	103	75 - 125		
Lead		1.081	0.0500	1	0.02133	106	75 - 125		
Selenium		1.181	0.0500	1	-0.00034	118	75 - 125		
Silver		1.029	0.0500	1	0.00009	103	75 - 125		

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Batch ID: 177	7991(0)	Instru	ment:	ICPMS06	M	ethod: 1	ICLP METAL	S BY SW602	0A		
SD	Sample ID:	HS22040499-01SD		Units:	mg/L	Ana	alysis Date:	22-Apr-2022	21:46		
Client ID:		Run	ID: ICPM	S06_407149	SeqNo: 6	614987	PrepDate: 2	22-Apr-2022	DI	F: 5	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Q	Qual
Arsenic		< 0.0200	0.250					0.00138		0 10	
Barium		0.8769	1.00					0.9092		0 10	J
Cadmium		< 0.0100	0.250					0.00078		0 10	
Chromium		< 0.0200	0.250					0.00104		0 10	
Lead		< 0.0300	0.250					0.02133		0 10	
Selenium		< 0.0550	0.250					-0.00034		0 10	
Silver		< 0.0100	0.250					0.00009		0 10	
The following sar	mples were analyze	ed in this batch: HS2204	0998-01								

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

Batch ID: 177915 (0)	Instrun	nent: S	SV-8	М	ethod: L	.OW-LEVEL	SEMIVOLA	TILES BY 8270D
MBLK Sample ID:	MBLK-177915		Units:	ug/L	Ana	alysis Date:	27-Apr-2022	2 09:38
Client ID:	Run I	D: SV-8_	407465	SeqNo: 6	621065	PrepDate:	21-Apr-2022	2 DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1´-Biphenyl	< 0.024	0.20						
2,4,5-Trichlorophenol	< 0.057	0.20						
2,4,6-Trichlorophenol	< 0.048	0.20						
2,4-Dichlorophenol	< 0.043	0.20						
2,4-Dimethylphenol	< 0.040	0.20						
2,4-Dinitrophenol	< 0.10	1.0						
2,4-Dinitrotoluene	< 0.058	0.20						
2,6-Dinitrotoluene	< 0.042	0.20						
2-Chloronaphthalene	< 0.021	0.20						
2-Chlorophenol	< 0.036	0.20						
2-Methylnaphthalene	< 0.019	0.10						
2-Methylphenol	< 0.045	0.20						
2-Nitroaniline	< 0.041	0.20						
2-Nitrophenol	< 0.034	0.20						
3&4-Methylphenol	< 0.036	0.20						
3,3'-Dichlorobenzidine	< 0.044	0.20						
3-Nitroaniline	< 0.049	0.20						
4,6-Dinitro-2-methylphenol	< 0.020	0.20						
4-Bromophenyl phenyl ether	< 0.051	0.20						
4-Chloro-3-methylphenol	< 0.032	0.20						
4-Chloroaniline	< 0.039	0.20						
4-Chlorophenyl phenyl ether	< 0.044	0.20						
4-Nitroaniline	< 0.035	0.20						
4-Nitrophenol	< 0.047	1.0						
Acenaphthene	< 0.027	0.10						
Acenaphthylene	< 0.015	0.10						
Acetophenone	< 0.024	0.20						
Anthracene	< 0.014	0.10						
Atrazine	< 0.033	0.20						
Benz(a)anthracene	< 0.050	0.10						
Benzaldehyde	< 0.030	0.20						
Benzo(a)pyrene	< 0.020	0.10						
Benzo(b)fluoranthene	< 0.023	0.10						
Benzo(g,h,i)perylene	< 0.014	0.10						

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Batch ID: 177915(0)	Instrur	nent: S	SV-8	м	ethod: L	OW-LEVEL \$	SEMIVOLAT	TILES BY 8270D
MBLK Sample ID:	MBLK-177915		Units:	ug/L	Ana	Ilysis Date: 2	27-Apr-2022	09:38
Client ID:	Run	D: SV-8_	407465	SeqNo: 6	621065	PrepDate: 2	21-Apr-2022	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Analyte	Result	FQL	SFK Vai	value	/0INEC	Liniit	value	
Benzo(k)fluoranthene	< 0.019	0.10						
Bis(2-chloroethoxy)methane	< 0.030	0.20						
Bis(2-chloroethyl)ether	< 0.026	0.20						
Bis(2-chloroisopropyl)ether	< 0.070	0.20						
Bis(2-ethylhexyl)phthalate	< 0.037	0.20						
Butyl benzyl phthalate	< 0.019	0.20						
Caprolactam	< 0.045	0.20						
Carbazole	< 0.025	0.20						
Chrysene	< 0.021	0.10						
Dibenz(a,h)anthracene	< 0.024	0.10						
Dibenzofuran	< 0.020	0.10						
Diethyl phthalate	< 0.030	0.20						
Dimethyl phthalate	< 0.041	0.20						
Di-n-butyl phthalate	< 0.020	0.20						
Di-n-octyl phthalate	< 0.020	0.20						
Fluoranthene	< 0.010	0.10						
Fluorene	< 0.030	0.10						
Hexachlorobenzene	< 0.044	0.20						
Hexachlorobutadiene	< 0.030	0.20						
Hexachlorocyclopentadiene	< 0.030	0.20						
Hexachloroethane	< 0.059	0.20						
Indeno(1,2,3-cd)pyrene	< 0.022	0.10						
Isophorone	< 0.025	0.20						
Naphthalene	< 0.020	0.10						
Nitrobenzene	< 0.024	0.20						
N-Nitrosodi-n-propylamine	< 0.032	0.20						
N-Nitrosodiphenylamine	< 0.025	0.20						
Pentachlorophenol	< 0.079	0.20						
Phenanthrene	< 0.021	0.10						
Phenol	< 0.035	0.20						
Pyrene	< 0.019	0.10						
Pyridine	< 0.030	1.0						
Surr: 2,4,6-Tribromophenol	4.599	0.20	5	0	92.0	34 - 129		
Surr: 2-Fluorobiphenyl	3.642	0.20	5	0	72.8	40 - 125		

Date: 17-May-22

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Batch ID: 177	7915(0)	Instrum	nent:	SV-8	M	ethod: I	OW-LEVEL	SEMIVOLAT	ILES BY 8270D
MBLK	Sample ID:	MBLK-177915		Units:	ug/L	Ana	alysis Date:	27-Apr-2022	09:38
Client ID:		Run I	D: SV-8	_407465	SeqNo: 6	621065	PrepDate:	21-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Surr: 2-Fluorop	henol	3.489	0.20	5	0	69.8	20 - 120		
Surr: 4-Terpher	nyl-d14	4.543	0.20	5	0	90.9	40 - 135		
Surr: Nitrobenzo	ene-d5	3.312	0.20	5	0	66.2	41 - 120		
Surr: Phenol-de	5	3.296	0.20	5	0	65.9	20 - 120		

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Batch ID: 177915 (0)	Instru	ment: S	SV-8	Me	ethod: I	LOW-LEVEL	SEMIVOLAT	TILES BY 8270D
LCS Sample ID:	LCS-177915		Units:	ug/L	An	alysis Date:	27-Apr-2022	09:57
Client ID:	Run	ID: SV-8_	407465	SeqNo: 6	621066	PrepDate:	21-Apr-2022	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1´-Biphenyl	3.736	0.20	5	0	74.7	45 - 125		
2,4,5-Trichlorophenol	4.324	0.20	5	0	86.5	46 - 120		
2,4,6-Trichlorophenol	4.169	0.20	5	0	83.4	42 - 120		
2,4-Dichlorophenol	4.123	0.20	5	0	82.5	49 - 120		
2,4-Dimethylphenol	3.774	0.20	5	0	75.5	35 - 120		
2,4-Dinitrophenol	5.815	1.0	5	0	116	15 - 120		
2,4-Dinitrotoluene	4.329	0.20	5	0	86.6	50 - 122		
2,6-Dinitrotoluene	4.329	0.20	5	0	86.6	50 - 120		
2-Chloronaphthalene	4.123	0.20	5	0	82.5	50 - 120		
2-Chlorophenol	3.82	0.20	5	0	76.4	40 - 120		
2-Methylnaphthalene	3.909	0.10	5	0	78.2	50 - 120		
2-Methylphenol	3.749	0.20	5	0	75.0	45 - 120		
2-Nitroaniline	4.272	0.20	5	0	85.4	28 - 139		
2-Nitrophenol	3.997	0.20	5	0	79.9	40 - 120		
3&4-Methylphenol	3.88	0.20	5	0	77.6	35 - 120		
3,3'-Dichlorobenzidine	5.147	0.20	5	0	103	15 - 120		
3-Nitroaniline	4.054	0.20	5	0	81.1	30 - 120		
4,6-Dinitro-2-methylphenol	4.928	0.20	5	0	98.6	25 - 121		
4-Bromophenyl phenyl ether	3.973	0.20	5	0	79.5	45 - 120		
4-Chloro-3-methylphenol	4.064	0.20	5	0	81.3	47 - 120		
4-Chloroaniline	4.024	0.20	5	0	80.5	20 - 120		
4-Chlorophenyl phenyl ether	4.121	0.20	5	0	82.4	50 - 120		
4-Nitroaniline	4.171	0.20	5	0	83.4	30 - 133		
4-Nitrophenol	4.432	1.0	5	0	88.6	30 - 130		
Acenaphthene	3.594	0.10	5	0	71.9	45 - 120		
Acenaphthylene	3.97	0.10	5	0	79.4	47 - 120		
Acetophenone	3.315	0.20	5	0	66.3	40 - 120		
Anthracene	4.021	0.10	5	0	80.4	45 - 120		
Atrazine	4.218	0.20	5	0	84.4	40 - 130		
Benz(a)anthracene	4.449	0.10	5	0	89.0	40 - 120		
Benzaldehyde	1.151	0.20	5	0	23.0	15 - 120		
Benzo(a)pyrene	4.967	0.10	5	0	99.3	45 - 120		
Benzo(b)fluoranthene	5.351	0.10	5	0	107	50 - 120		
Benzo(g,h,i)perylene	5.044	0.10	5	0	101	42 - 127		

QC BATCH REPORT

Batch ID: 177915(0)	Instru	ıment: S	SV-8	Me	ethod: L	-OW-LEVEL	SEMIVOLAT	ILES BY 8270D
LCS Sample ID:	LCS-177915		Units:	ug/L	Ana	alysis Date:	27-Apr-2022	09:57
Client ID:	Ru	n ID: SV-8_	407465	SeqNo: 6	621066	PrepDate:	21-Apr-2022	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzo(k)fluoranthene	4.064	0.10	5	0	81.3	45 - 127		
Bis(2-chloroethoxy)methane	3.532	0.20	5	0	70.6	45 - 120		
Bis(2-chloroethyl)ether	3.264	0.20	5	0	65.3	37 - 121		
Bis(2-chloroisopropyl)ether	3.03	0.20	5	0	60.6	40 - 120		
Bis(2-ethylhexyl)phthalate	5.413	0.20	5	0	108	40 - 139		
Butyl benzyl phthalate	5.629	0.20	5	0	113	47 - 123		
Caprolactam	3.449	0.20	5	0	69.0	35 - 134		
Carbazole	4.115	0.20	5	0	82.3	42 - 128		
Chrysene	4.157	0.10	5	0	83.1	43 - 120		
Dibenz(a,h)anthracene	4.954	0.10	5	0	99.1	45 - 125		
Dibenzofuran	4.066	0.10	5	0	81.3	50 - 120		
Diethyl phthalate	4.254	0.20	5	0	85.1	41 - 120		
Dimethyl phthalate	4.08	0.20	5	0	81.6	40 - 122		
Di-n-butyl phthalate	4.47	0.20	5	0	89.4	45 - 123		
Di-n-octyl phthalate	5.826	0.20	5	0	117	45 - 129		
Fluoranthene	4.463	0.10	5	0	89.3	45 - 125		
Fluorene	4.109	0.10	5	0	82.2	49 - 120		
Hexachlorobenzene	4.118	0.20	5	0	82.4	48 - 120		
Hexachlorobutadiene	4.047	0.20	5	0	80.9	40 - 120		
Hexachlorocyclopentadiene	3.464	0.20	5	0	69.3	34 - 136		
Hexachloroethane	3.443	0.20	5	0	68.9	40 - 120		
Indeno(1,2,3-cd)pyrene	5.125	0.10	5	0	102	41 - 128		
Isophorone	3.38	0.20	5	0	67.6	40 - 121		
Naphthalene	3.762	0.10	5	0	75.2	45 - 120		
Nitrobenzene	3.314	0.20	5	0	66.3	44 - 120		
N-Nitrosodi-n-propylamine	3.448	0.20	5	0	69.0	40 - 120		
N-Nitrosodiphenylamine	3.756	0.20	5	0	75.1	40 - 125		
Pentachlorophenol	4.734	0.20	5	0	94.7	19 - 121		
Phenanthrene	3.876	0.10	5	0	77.5	45 - 121		
Phenol	4.159	0.20	5	0	83.2	20 - 124		
Pyrene	3.873	0.10	5	0	77.5	40 - 130		
Pyridine	2.516	1.0	5	0	50.3	15 - 120		
Surr: 2,4,6-Tribromophenol	4.551	0.20	5	0	91.0	34 - 129		
Surr: 2-Fluorobiphenyl	3.696	0.20	5	0	73.9	40 - 125		

Date: 17-May-22

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

QC BATCH REPORT

Batch ID: 177	915(0)	Instrume	ent:	SV-8	M	ethod:	LOW-LEVEL	SEMIVOLAT	ILES BY 8270D
LCS	Sample ID:	LCS-177915		Units:	ug/L	An	alysis Date:	27-Apr-2022	09:57
Client ID:		Run ID): SV-8	_407465	SeqNo: 6	621066	PrepDate:	21-Apr-2022	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Surr: 2-Fluoroph	nenol	3.387	0.20	5	0	67.7	20 - 120		
Surr: 4-Terphen	yl-d14	4.2	0.20	5	0	84.0	40 - 135		
Surr: Nitrobenze	ene-d5	3.273	0.20	5	0	65.5	41 - 120		
Surr: Phenol-d6		3.259	0.20	5	0	65.2	20 - 120		

QC BATCH REPORT

Batch ID:	177915(0)	In	strument:	SV-8	М	ethod:	LOW-LEVEL	SEMIVOLAT	ILES BY 8	8270D
LCSD	Sample ID:	LCSD-177915		Units	ug/L	An	alysis Date:	27-Apr-2022	10:16	
Client ID:			Run ID: SV-	8_407465	SeqNo: 6	6621067	PrepDate:	21-Apr-2022	DF: 1	
			501	0.01/11/1	SPK Ref		Control			PD
Analyte		Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD Li	mit Qual
1,1'-Biphen	yl	3.748	0.20	5	0	75.0	45 - 125	3.736	0.312	20
2,4,5-Trichle	orophenol	4.283	0.20	5	0	85.7	46 - 120	4.324	0.968	20
2,4,6-Trichle	orophenol	4.199	0.20	5	0	84.0	42 - 120	4.169	0.707	20
2,4-Dichloro	ophenol	4.161	0.20	5	0	83.2	49 - 120	4.123	0.922	20
2,4-Dimethy	lphenol	3.659	0.20	5	0	73.2	35 - 120	3.774	3.09	20
2,4-Dinitrop	henol	5.891	1.0	5	0	118	15 - 120	5.815	1.29	50
2,4-Dinitroto	oluene	4.334	0.20	5	0	86.7	50 - 122	4.329	0.0985	20
2,6-Dinitroto	oluene	4.334	0.20	5	0	86.7	50 - 120	4.329	0.0985	20
2-Chlorona	phthalene	4.119	0.20	5	0	82.4	50 - 120	4.123	0.0841	20
2-Chlorophe	enol	3.829	0.20	5	0	76.6	40 - 120	3.82	0.258	20
2-Methylna	phthalene	3.874	0.10	5	0	77.5	50 - 120	3.909	0.905	20
2-Methylphe	enol	3.758	0.20	5	0	75.2	45 - 120	3.749	0.232	20
2-Nitroanilir	ne	4.345	0.20	5	0	86.9	28 - 139	4.272	1.7	20
2-Nitrophen	ol	3.969	0.20	5	0	79.4	40 - 120	3.997	0.717	20
3&4-Methyl	phenol	3.877	0.20	5	0	77.5	35 - 120	3.88	0.0798	20
3,3'-Dichlor	obenzidine	5.076	0.20	5	0	102	15 - 120	5.147	1.4	20
3-Nitroanilir	ne	4.085	0.20	5	0	81.7	30 - 120	4.054	0.753	20
4,6-Dinitro-2	2-methylphenol	4.722	0.20	5	0	94.4	25 - 121	4.928	4.25	30
4-Bromophe	enyl phenyl ether	3.914	0.20	5	0	78.3	45 - 120	3.973	1.51	20
4-Chloro-3-	methylphenol	4.139	0.20	5	0	82.8	47 - 120	4.064	1.83	20
4-Chloroani	line	4.014	0.20	5	0	80.3	20 - 120	4.024	0.258	20
4-Chlorophe	enyl phenyl ether	4.136	0.20	5	0	82.7	50 - 120	4.121	0.355	20
4-Nitroanilir	ne	4.269	0.20	5	0	85.4	30 - 133	4.171	2.32	20
4-Nitrophen	ol	4.606	1.0	5	0	92.1	30 - 130	4.432	3.86	20
Acenaphthe	ene	3.613	0.10	5	0	72.3	45 - 120	3.594	0.527	20
Acenaphthy	lene	3.896	0.10	5	0	77.9	47 - 120	3.97	1.87	20
Acetopheno	one	3.354	0.20	5	0	67.1	40 - 120	3.315	1.17	20
Anthracene	1	4.018	0.10	5	0	80.4	45 - 120	4.021	0.0839	20
Atrazine		4.29	0.20	5	0	85.8	40 - 130	4.218	1.68	20
Benz(a)anth	nracene	4.461	0.10	5	0	89.2	40 - 120	4.449	0.283	20
Benzaldehy	/de	1.141	0.20	5	0	22.8	15 - 120	1.151	0.826	30
Benzo(a)py	rene	4.756	0.10	5	0	95.1	45 - 120	4.967	4.34	20
Benzo(b)flu	oranthene	5.379	0.10	5	0	108	50 - 120	5.351	0.516	20
Benzo(g,h,i)perylene	5.042	0.10	5	0	101	42 - 127	5.044	0.0484	20

QC BATCH REPORT

Batch ID:	177915(0)	Ins	strument:	SV-8	М	ethod: L	OW-LEVEL	SEMIVOLAT	ILES BY 8	8270D
LCSD	Sample ID:	LCSD-177915		Units	ug/L	Ana	alysis Date:	27-Apr-2022	10:16	
Client ID:		I	Run ID: SV- 8	8_407465	SeqNo: 6	6621067	PrepDate:	21-Apr-2022	DF: 1	
			501	0.514.14	SPK Ref		Control	RPD Ref		PD
Analyte		Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD Li	mit Qual
Benzo(k)flu	oranthene	4.209	0.10	5	0	84.2	45 - 127	4.064	3.51	20
Bis(2-chlore	oethoxy)methane	3.505	0.20	5	0	70.1	45 - 120	3.532	0.754	20
Bis(2-chlore	oethyl)ether	3.364	0.20	5	0	67.3	37 - 121	3.264	3.04	20
Bis(2-chlore	oisopropyl)ether	3.095	0.20	5	0	61.9	40 - 120	3.03	2.13	20
Bis(2-ethyll	nexyl)phthalate	5.464	0.20	5	0	109	40 - 139	5.413	0.934	20
Butyl benzy	/l phthalate	5.656	0.20	5	0	113	47 - 123	5.629	0.478	20
Caprolacta	m	3.686	0.20	5	0	73.7	35 - 134	3.449	6.66	20
Carbazole		4.088	0.20	5	0	81.8	42 - 128	4.115	0.647	20
Chrysene		4.122	0.10	5	0	82.4	43 - 120	4.157	0.849	20
Dibenz(a,h))anthracene	5.292	0.10	5	0	106	45 - 125	4.954	6.59	20
Dibenzofura	an	4.072	0.10	5	0	81.4	50 - 120	4.066	0.143	20
Diethyl phth	nalate	4.36	0.20	5	0	87.2	41 - 120	4.254	2.46	20
Dimethyl pł	nthalate	4.168	0.20	5	0	83.4	40 - 122	4.08	2.14	20
Di-n-butyl p	ohthalate	4.476	0.20	5	0	89.5	45 - 123	4.47	0.128	20
Di-n-octyl p	hthalate	5.883	0.20	5	0	118	45 - 129	5.826	0.984	20
Fluoranther	ne	4.47	0.10	5	0	89.4	45 - 125	4.463	0.157	20
Fluorene		4.163	0.10	5	0	83.3	49 - 120	4.109	1.32	20
Hexachloro	benzene	4.085	0.20	5	0	81.7	48 - 120	4.118	0.814	20
Hexachloro	butadiene	4.017	0.20	5	0	80.3	40 - 120	4.047	0.759	20
Hexachloro	ocyclopentadiene	3.381	0.20	5	0	67.6	34 - 136	3.464	2.43	20
Hexachloro	ethane	3.513	0.20	5	0	70.3	40 - 120	3.443	2	20
Indeno(1,2,	,3-cd)pyrene	5.092	0.10	5	0	102	41 - 128	5.125	0.628	20
Isophorone		3.378	0.20	5	0	67.6	40 - 121	3.38	0.0577	20
Naphthalen	ie	3.816	0.10	5	0	76.3	45 - 120	3.762	1.41	20
Nitrobenzei	ne	3.327	0.20	5	0	66.5	44 - 120	3.314	0.421	20
N-Nitrosodi	-n-propylamine	3.465	0.20	5	0	69.3	40 - 120	3.448	0.469	20
N-Nitrosodi	phenylamine	3.723	0.20	5	0	74.5	40 - 125	3.756	0.905	
Pentachloro	ophenol	4.667	0.20	5	0	93.3	19 - 121	4.734	1.42	20
Phenanthre	ene	3.88	0.10	5	0	77.6	45 - 121	3.876	0.0968	20
Phenol		4.172	0.20	5	0	83.4	20 - 124	4.159	0.32	20
Pyrene		3.883	0.10	5	0	77.7	40 - 130	3.873	0.268	20
Pyridine		2.636	1.0	5	0	52.7	15 - 120	2.516	4.64	20
	Tribromophenol	4.573	0.20	5	0	91.5	34 - 129	4.551	0.503	
Surr: 2-Flue	orobiphenyl	3.669	0.20	5	0	73.4	40 - 125	3.696	0.744	20

QC BATCH REPORT

Batch ID: 177	7915(0)	Instrum	ent: S	SV-8	Ме	ethod: L	OW-LEVEL	SEMIVOLAT	ILES BY 8270	D
LCSD	Sample ID:	LCSD-177915		Units:	ug/L	Ana	alysis Date:	27-Apr-2022	10:16	
Client ID:		Run II	D: SV-8_	407465	SeqNo: 6	621067	PrepDate:	21-Apr-2022	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit C	Qual
Surr: 2-Fluoropi	henol	3.345	0.20	5	0	66.9	20 - 120	3.387	1.23 20	
Surr: 4-Terpher	nyl-d14	4.161	0.20	5	0	83.2	40 - 135	4.2	0.928 20	
Surr: Nitrobenze	ene-d5	3.271	0.20	5	0	65.4	41 - 120	3.273	0.0636 20	
Surr: Phenol-d6	3	3.272	0.20	5	0	65.4	20 - 120	3.259	0.397 20	
The following san	nples were analyze	ed in this batch: HS220409	998-01							

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

QC BATCH REPORT

MBLK Sample ID: VBLKW-220421 Units: ug/L Analysis Date: 21 Apr-2022 10:36 Analysis Result POL SPK Val SeqNo: 6613111 PrepDate: DF: 1 Analysis Result POL SPK Val SPK Ref Control PDL PDL PDL SPK Val SPK Ref Control PDL PDL PDL PDL SPK Val SPK Ref Control PDL	Batch ID: R407112 (0)	Ir	strument:	VOA4	M	ethod: I	OW LEVEL	VOLATILES	BY SW8260C
Analyte Result PQL SPK Val Value %REC Control RPD Ref RPD 1.1,4-Trichloroethane < 0.20 1.0	MBLK Sample I	D: VBLKW-220421		Units:	ug/L	An	alysis Date:	21-Apr-2022	2 10:36
Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Value %	Client ID:		Run ID: VOA	4_407112	SeqNo: 6	613111	PrepDate:		DF: 1
1,1,1-Trichloroethane < 0.20									
1,1,2,2-Tetrachloroethane < 0.50	Analyte	Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD Limit Qual
1.1.2-Trichloroethane < 0.50	1,1,1-Trichloroethane	< 0.20	1.0						
1.1.2-Trichloroethane < 0.30	1,1,2,2-Tetrachloroethane	< 0.50	1.0						
1.1-Dichloroethane < 0.20	1,1,2-Trichlor-1,2,2-trifluoroeth	nane < 0.50	1.0						
1.1-Dichloroethene < 0.20	1,1,2-Trichloroethane	< 0.30	1.0						
1,24-Trichlorobenzene < 0.50	1,1-Dichloroethane	< 0.20	1.0						
1.2-Dibromo-3-chloropropane < 1.0	1,1-Dichloroethene	< 0.20	1.0						
1.2-Dibromoethane < 0.20	1,2,4-Trichlorobenzene	< 0.50	1.0						
1.2-Dichlorobenzene < 0.50	1,2-Dibromo-3-chloropropane	< 1.0	1.0						
1.2-Dichloroethane < 0.20	1,2-Dibromoethane	< 0.20	1.0						
1.2-Dichloropropane < 0.50	1,2-Dichlorobenzene	< 0.50	1.0						
1.3-Dichlorobenzene < 0.40	1,2-Dichloroethane	< 0.20	1.0						
1.4-Dichlorobenzene <0.40	1,2-Dichloropropane	< 0.50	1.0						
2-Butanone < 0.50	1,3-Dichlorobenzene	< 0.40	1.0						
2-Hexanone < 1.0	1,4-Dichlorobenzene	< 0.40	1.0						
4-Methyl-2-pentanone < 0.70	2-Butanone	< 0.50	2.0						
Acetone < 2.0 2.0 Benzene < 0.20	2-Hexanone	< 1.0	2.0						
Benzene < 0.20 1.0 Bromodichloromethane < 0.20	4-Methyl-2-pentanone	< 0.70	2.0						
Bromodichloromethane < 0.20 1.0 Bromoform < 0.40	Acetone	< 2.0	2.0						
Bromoform < 0.40 1.0 Bromomethane < 0.40	Benzene	< 0.20	1.0						
Bromomethane < 0.40	Bromodichloromethane	< 0.20	1.0						
Carbon disulfide < 0.60 2.0 Carbon tetrachloride < 0.50	Bromoform	< 0.40	1.0						
Carbon tetrachloride < 0.50 1.0 Chlorobenzene < 0.30 1.0 Chloroethane < 0.30 1.0 Chloroform < 0.20 1.0 Chloromethane < 0.20 1.0 Chloromethane < 0.20 1.0 Chloromethane < 0.20 1.0 cis-1,2-Dichloroethene < 0.20 1.0 cis-1,3-Dichloropropene < 0.10 1.0 Cyclohexane < 0.30 1.0 Dibromochloromethane < 0.30 1.0 Dichlorodifluoromethane < 0.30 1.0	Bromomethane	< 0.40	1.0						
Chlorobenzene < 0.30 1.0 Chloroethane < 0.30	Carbon disulfide	< 0.60	2.0						
Chloroethane < 0.30	Carbon tetrachloride	< 0.50	1.0						
Chloroform < 0.20	Chlorobenzene	< 0.30	1.0						
Chloromethane < 0.20	Chloroethane	< 0.30	1.0						
cis-1,2-Dichloroethene < 0.20 1.0 cis-1,3-Dichloropropene < 0.10	Chloroform	< 0.20	1.0						
cis-1,3-Dichloropropene< 0.101.0Cyclohexane< 0.30	Chloromethane	< 0.20	1.0						
Cyclohexane< 0.301.0Dibromochloromethane< 0.30	cis-1,2-Dichloroethene	< 0.20	1.0						
Dibromochloromethane< 0.301.0Dichlorodifluoromethane< 0.30	cis-1,3-Dichloropropene	< 0.10	1.0						
Dichlorodifluoromethane < 0.30 1.0	Cyclohexane	< 0.30	1.0						
	Dibromochloromethane	< 0.30	1.0						
Ethylbenzene < 0.30 1.0	Dichlorodifluoromethane	< 0.30	1.0						
	Ethylbenzene	< 0.30	1.0						

QC BATCH REPORT

Batch ID: R407112 (0)	Instr	ument: V	OA4	M	ethod: L	OW LEVEL	VOLATILES	BY SW8260C
MBLK Sample ID:	VBLKW-220421		Units:	ug/L	Ana	alysis Date:	21-Apr-2022	10:36
Client ID:	Ru	n ID: VOA4	_407112	SeqNo: 6	613111	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Isopropylbenzene	< 0.30	1.0						
m,p-Xylene	< 0.50	2.0						
Methyl acetate	< 1.0	1.0						
Methyl tert-butyl ether	< 0.20	1.0						
Methylcyclohexane	< 0.30	1.0						
Methylene chloride	< 1.0	2.0						
o-Xylene	< 0.30	1.0						
Styrene	< 0.30	1.0						
Tetrachloroethene	< 0.30	1.0						
Toluene	< 0.20	1.0						
trans-1,2-Dichloroethene	< 0.20	1.0						
trans-1,3-Dichloropropene	< 0.20	1.0						
Trichloroethene	< 0.20	1.0						
Trichlorofluoromethane	< 0.30	1.0						
Vinyl chloride	< 0.20	1.0						
Xylenes, Total	< 0.30	1.0						
Surr: 1,2-Dichloroethane-d4	44.81	1.0	50	0	89.6	70 - 123		
Surr: 4-Bromofluorobenzene	45.36	1.0	50	0	90.7	77 - 113		
Surr: Dibromofluoromethane	45.99	1.0	50	0	92.0	73 - 126		
Surr: Toluene-d8	49.41	1.0	50	0	98.8	81 - 120		

QC BATCH REPORT

Batch ID: R407112 (0)	Instrun	nent: V	/OA4	Me	ethod: L	OW LEVEL	VOLATILES	BY SW8260C
LCS Sample ID:	VLCSW-220421		Units:	ug/L	Ana	alysis Date:	21-Apr-2022	09:53
Client ID:	Run I	D: VOA4	_407112	SeqNo: 6	613110	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	17.03	1.0	20	0	85.1	70 - 130		
1,1,2,2-Tetrachloroethane	18.74	1.0	20	0	93.7	70 - 120		
1,1,2-Trichlor-1,2,2-trifluoroethane	19.26	1.0	20	0	96.3	70 - 130		
1,1,2-Trichloroethane	17.1	1.0	20	0	85.5	77 - 113		
1,1-Dichloroethane	16.9	1.0	20	0	84.5	71 - 122		
1,1-Dichloroethene	16.94	1.0	20	0	84.7	70 - 130		
1,2,4-Trichlorobenzene	18.47	1.0	20	0	92.4	77 - 126		
1,2-Dibromo-3-chloropropane	17.18	1.0	20	0	85.9	70 - 130		
1,2-Dibromoethane	18.02	1.0	20	0	90.1	76 - 123		
1,2-Dichlorobenzene	18.74	1.0	20	0	93.7	77 - 113		
1,2-Dichloroethane	18.15	1.0	20	0	90.7	70 - 124		
1,2-Dichloropropane	16.16	1.0	20	0	80.8	72 - 119		
1,3-Dichlorobenzene	18.16	1.0	20	0	90.8	78 - 118		
1,4-Dichlorobenzene	18.08	1.0	20	0	90.4	79 - 113		
2-Butanone	28.59	2.0	40	0	71.5	70 - 130		
2-Hexanone	33.81	2.0	40	0	84.5	70 - 130		
4-Methyl-2-pentanone	33.63	2.0	40	0	84.1	70 - 130		
Acetone	29.78	2.0	40	0	74.4	70 - 130		
Benzene	17.32	1.0	20	0	86.6	74 - 120		
Bromodichloromethane	16.52	1.0	20	0	82.6	74 - 122		
Bromoform	17.71	1.0	20	0	88.5	73 - 128		
Bromomethane	18.89	1.0	20	0	94.5	70 - 130		
Carbon disulfide	33.07	2.0	40	0	82.7	70 - 130		
Carbon tetrachloride	18.51	1.0	20	0	92.5	71 - 125		
Chlorobenzene	17.59	1.0	20	0	87.9	76 - 113		
Chloroethane	15.57	1.0	20	0	77.8	70 - 130		
Chloroform	16.49	1.0	20	0	82.4	71 - 121		
Chloromethane	17.47	1.0	20	0	87.4	70 - 129		
cis-1,2-Dichloroethene	15.92	1.0	20	0	79.6	75 - 122		
cis-1,3-Dichloropropene	16.93	1.0	20	0	84.7	73 - 127		
Cyclohexane	16.3	1.0	20	0	81.5	70 - 130		
Dibromochloromethane	17.64	1.0	20	0	88.2	77 - 122		
Dichlorodifluoromethane	16.83	1.0	20	0	84.1	70 - 130		
Ethylbenzene	18.11	1.0	20	0	90.6	77 - 117		

QC BATCH REPORT

Batch ID: R407112 (0)	Instr	ument: V	OA4	M	ethod: L	OW LEVEL	VOLATILES BY SW8260C
LCS Sample ID:	VLCSW-220421		Units:	ug/L	Ana	alysis Date:	21-Apr-2022 09:53
Client ID:	Ru	n ID: VOA4	407112	SeqNo: 6	613110	PrepDate:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref RPD Value %RPD Limit Qual
Isopropylbenzene	19.37	1.0	20	0	96.8	73 - 127	
m,p-Xylene	38.76	2.0	40	0	96.9	77 - 122	
Methyl acetate	16.61	1.0	20	0	83.0	76 - 122	
Methyl tert-butyl ether	14.69	1.0	20	0	73.4	70 - 130	
Methylcyclohexane	19.93	1.0	20	0	99.6	61 - 157	
Methylene chloride	17.12	2.0	20	0	85.6	70 - 127	
o-Xylene	18.79	1.0	20	0	93.9	75 - 119	
Styrene	19.17	1.0	20	0	95.9	72 - 126	
Tetrachloroethene	19.45	1.0	20	0	97.2	76 - 119	
Toluene	17.28	1.0	20	0	86.4	77 - 118	
trans-1,2-Dichloroethene	16.26	1.0	20	0	81.3	72 - 127	
trans-1,3-Dichloropropene	16.97	1.0	20	0	84.8	77 - 119	
Trichloroethene	18.67	1.0	20	0	93.4	77 - 121	
Trichlorofluoromethane	18.31	1.0	20	0	91.5	70 - 130	
Vinyl chloride	14.72	1.0	20	0	73.6	70 - 130	
Xylenes, Total	57.55	1.0	60	0	95.9	75 - 122	
Surr: 1,2-Dichloroethane-d4	44.86	1.0	50	0	89.7	70 - 123	
Surr: 4-Bromofluorobenzene	48.49	1.0	50	0	97.0	77 - 113	
Surr: Dibromofluoromethane	47.91	1.0	50	0	95.8	73 - 126	
Surr: Toluene-d8	49.7	1.0	50	0	99.4	81 - 120	

QC BATCH REPORT

Batch ID: R407112 (0)	Instrume	nt: \	/OA4	Me	ethod: L	OW LEVEL	VOLATILES	BY SW8260C
MS Sample ID:	HS22040980-02MS		Units:	ug/L	Ana	alysis Date:	21-Apr-2022	2 12:45
Client ID:	Run ID	VOA4	407112	SeqNo: 6	613117	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	17.26	1.0	20	0	86.3	70 - 130		
1,1,2,2-Tetrachloroethane	15.46	1.0	20	0	77.3	70 - 123		
1,1,2-Trichlor-1,2,2-trifluoroethane	19.98	1.0	20	0	99.9	70 - 130		
1,1,2-Trichloroethane	15.49	1.0	20	0	77.4	70 - 117		
1,1-Dichloroethane	16.42	1.0	20	0	82.1	70 - 127		
1,1-Dichloroethene	17.47	1.0	20	0	87.3	70 - 130		
1,2,4-Trichlorobenzene	18.08	1.0	20	0	90.4	70 - 125		
1,2-Dibromo-3-chloropropane	15.53	1.0	20	0	77.6	70 - 130		
1,2-Dibromoethane	15.87	1.0	20	0	79.4	70 - 124		
1,2-Dichlorobenzene	17.26	1.0	20	0	86.3	70 - 115		
1,2-Dichloroethane	17.27	1.0	20	0	86.3	70 - 127		
1,2-Dichloropropane	15.6	1.0	20	0	78.0	70 - 122		
1,3-Dichlorobenzene	17.28	1.0	20	0	86.4	70 - 119		
1,4-Dichlorobenzene	17.27	1.0	20	0	86.4	70 - 114		
2-Butanone	24.37	2.0	40	0	60.9	70 - 130		S
2-Hexanone	29.73	2.0	40	0	74.3	70 - 130		
4-Methyl-2-pentanone	31.7	2.0	40	0	79.2	70 - 130		
Acetone	27.18	2.0	40	0	67.9	70 - 130		5
Benzene	16.81	1.0	20	0	84.0	70 - 127		
Bromodichloromethane	15.58	1.0	20	0	77.9	70 - 124		
Bromoform	15.03	1.0	20	0	75.2	70 - 129		
Bromomethane	13.76	1.0	20	0	68.8	70 - 130		S
Carbon disulfide	34.8	2.0	40	0	87.0	70 - 130		
Carbon tetrachloride	19.3	1.0	20	0	96.5	70 - 130		
Chlorobenzene	17.37	1.0	20	0	86.9	70 - 114		
Chloroethane	21.3	1.0	20	0	107	70 - 130		
Chloroform	16.02	1.0	20	0	80.1	70 - 125		
Chloromethane	20.54	1.0	20	0	103	70 - 130		
cis-1,2-Dichloroethene	15.84	1.0	20	0	79.2	70 - 128		
cis-1,3-Dichloropropene	15.08	1.0	20	0	75.4	70 - 125		
Cyclohexane	16.86	1.0	20	0	84.3	70 - 130		
Dibromochloromethane	16.06	1.0	20	0	80.3	70 - 124		
Dichlorodifluoromethane	14.98	1.0	20	0	74.9	70 - 130		
Ethylbenzene	18.06	1.0	20	0	90.3	70 - 124		
	10.00		20	5	50.0	10 124		

QC BATCH REPORT

Batch ID: R407112 (0)	Instrumer	nt: N	/OA4	M	ethod: L	OW LEVEL	VOLATILES	BY SW8260C
MS Sample ID:	HS22040980-02MS		Units:	ug/L	Ana	alysis Date:	21-Apr-2022	2 12:45
Client ID:	Run ID:	VOA4	407112	SeqNo: 6	613117	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Isopropylbenzene	19.61	1.0	20	0	98.1	70 - 130		
m,p-Xylene	37.54	2.0	40	0	93.9	70 - 130		
Methyl acetate	12.3	1.0	20	0	61.5	76 - 122		S
Methyl tert-butyl ether	13.54	1.0	20	0	67.7	70 - 130		S
Methylcyclohexane	19.68	1.0	20	0	98.4	61 - 158		
Methylene chloride	16.45	2.0	20	0	82.3	70 - 128		
o-Xylene	18.37	1.0	20	0	91.9	70 - 124		
Styrene	17.78	1.0	20	0	88.9	70 - 130		
Tetrachloroethene	20.17	1.0	20	0	101	70 - 130		
Toluene	17.08	1.0	20	0	85.4	70 - 123		
trans-1,2-Dichloroethene	16.05	1.0	20	0	80.3	70 - 130		
trans-1,3-Dichloropropene	14.08	1.0	20	0	70.4	70 - 121		
Trichloroethene	18.19	1.0	20	0	90.9	70 - 129		
Trichlorofluoromethane	19.23	1.0	20	0	96.2	70 - 130		
Vinyl chloride	16.3	1.0	20	0	81.5	70 - 130		
Xylenes, Total	55.91	1.0	60	0	93.2	70 - 130		
Surr: 1,2-Dichloroethane-d4	44.45	1.0	50	0	88.9	70 - 126		
Surr: 4-Bromofluorobenzene	48.26	1.0	50	0	96.5	77 - 113		
Surr: Dibromofluoromethane	47.15	1.0	50	0	94.3	77 - 123		
Surr: Toluene-d8	50.02	1.0	50	0	100	82 - 127		

QC BATCH REPORT

Batch ID: R407112 (0)	Instrume	nt: \	/OA4	М	ethod: L	OW LEVEL	VOLATILES	BY SW8260C
MSD Sample ID:	HS22040980-02MSD		Units:	ug/L	Ana	alysis Date: 2	21-Apr-2022	13:07
Client ID:	Run ID	VOA4	_407112	SeqNo: 6	613118	PrepDate:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qu
1,1,1-Trichloroethane	17.23	1.0	20	0	86.1	70 - 130	17.26	0.16 20
1,1,2,2-Tetrachloroethane	16.07	1.0	20	0	80.3	70 - 123	15.46	3.83 20
1,1,2-Trichlor-1,2,2-trifluoroethane	19.94	1.0	20	0	99.7	70 - 130	19.98	0.158 20
1,1,2-Trichloroethane	15.45	1.0	20	0	77.3	70 - 117	15.49	0.253 20
1,1-Dichloroethane	16.36	1.0	20	0	81.8	70 - 127	16.42	0.374 20
1,1-Dichloroethene	17.8	1.0	20	0	89.0	70 - 130	17.47	1.88 20
1,2,4-Trichlorobenzene	19.3	1.0	20	0	96.5	70 - 125	18.08	6.53 20
1,2-Dibromo-3-chloropropane	16.13	1.0	20	0	80.6	70 - 130	15.53	3.81 20
1,2-Dibromoethane	16.4	1.0	20	0	82.0	70 - 124	15.87	3.3 20
1,2-Dichlorobenzene	17.75	1.0	20	0	88.7	70 - 115	17.26	2.77 20
1,2-Dichloroethane	16.53	1.0	20	0	82.7	70 - 127	17.27	4.34 20
1,2-Dichloropropane	15.13	1.0	20	0	75.6	70 - 122	15.6	3.04 20
1,3-Dichlorobenzene	17.12	1.0	20	0	85.6	70 - 119	17.28	0.948 20
1,4-Dichlorobenzene	17.01	1.0	20	0	85.0	70 - 114	17.27	1.55 20
2-Butanone	26.29	2.0	40	0	65.7	70 - 130	24.37	7.58 20
2-Hexanone	33.18	2.0	40	0	83.0	70 - 130	29.73	11 20
4-Methyl-2-pentanone	31.62	2.0	40	0	79.1	70 - 130	31.7	0.23 20
Acetone	26.06	2.0	40	0	65.2	70 - 130	27.18	4.2 20
Benzene	16.69	1.0	20	0	83.4	70 - 127	16.81	0.731 20
Bromodichloromethane	15.57	1.0	20	0	77.8	70 - 124	15.58	0.117 20
Bromoform	15.36	1.0	20	0	76.8	70 - 129	15.03	2.17 20
Bromomethane	13.58	1.0	20	0	67.9	70 - 130	13.76	1.3 20
Carbon disulfide	34.49	2.0	40	0	86.2	70 - 130	34.8	0.911 20
Carbon tetrachloride	18.76	1.0	20	0	93.8	70 - 130	19.3	2.89 20
Chlorobenzene	16.99	1.0	20	0	84.9	70 - 114	17.37	2.26 20
Chloroethane	22.15	1.0	20	0	111	70 - 130	21.3	3.9 20
Chloroform	15.89	1.0	20	0	79.4	70 - 125	16.02	0.832 20
Chloromethane	19.08	1.0	20	0	95.4	70 - 130	20.54	7.34 20
cis-1,2-Dichloroethene	15.92	1.0	20	0	79.6	70 - 128	15.84	0.491 20
cis-1,3-Dichloropropene	15.38	1.0	20	0	76.9	70 - 125	15.08	1.97 20
Cyclohexane	16.68	1.0	20	0	83.4	70 - 130	16.86	1.11 20
Dibromochloromethane	16.24	1.0	20	0	81.2	70 - 124	16.06	1.12 20
Dichlorodifluoromethane	15.28	1.0	20	0	76.4	70 - 130	14.98	1.96 20
Ethylbenzene	17.75	1.0	20	0	88.8	70 - 124	18.06	1.69 20

QC BATCH REPORT

Batch ID: R407112(0)	Instrume	int. V	/0A4		culou. L	OW LEVEL	TOLATILES	01 01102		
MSD Sample ID:	HS22040980-02MSD		Units:	ug/L	Ana	alysis Date:	21-Apr-2022	: 13:07		
Client ID:	Run ID:	VOA4	_407112	SeqNo: 6	613118	PrepDate:		DF: '	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	R %RPD L	RPD .imit (Qua
Isopropylbenzene	19.32	1.0	20	0	96.6	70 - 130	19.61	1.5	20	
m,p-Xylene	37.75	2.0	40	0	94.4	70 - 130	37.54	0.557	20	
Methyl acetate	13.05	1.0	20	0	65.3	76 - 122	12.3	5.97	20	
Methyl tert-butyl ether	16.57	1.0	20	0	82.8	70 - 130	13.54	20.1	20	
Methylcyclohexane	19.89	1.0	20	0	99.4	61 - 158	19.68	1.04	20	
Methylene chloride	15.83	2.0	20	0	79.1	70 - 128	16.45	3.86	20	
o-Xylene	18.07	1.0	20	0	90.3	70 - 124	18.37	1.67	20	
Styrene	17.57	1.0	20	0	87.9	70 - 130	17.78	1.17	20	
Tetrachloroethene	19.59	1.0	20	0	97.9	70 - 130	20.17	2.93	20	
Toluene	17.16	1.0	20	0	85.8	70 - 123	17.08	0.459	20	
trans-1,2-Dichloroethene	16.07	1.0	20	0	80.3	70 - 130	16.05	0.0812	20	
trans-1,3-Dichloropropene	15.28	1.0	20	0	76.4	70 - 121	14.08	8.21	20	
Trichloroethene	18.04	1.0	20	0	90.2	70 - 129	18.19	0.833	20	
Trichlorofluoromethane	19.4	1.0	20	0	97.0	70 - 130	19.23	0.842	20	
Vinyl chloride	15.64	1.0	20	0	78.2	70 - 130	16.3	4.14	20	
Xylenes, Total	55.82	1.0	60	0	93.0	70 - 130	55.91	0.17	20	
Surr: 1,2-Dichloroethane-d4	45.14	1.0	50	0	90.3	70 - 126	44.45	1.56	20	
Surr: 4-Bromofluorobenzene	49.18	1.0	50	0	98.4	77 - 113	48.26	1.88	20	
Surr: Dibromofluoromethane	47.62	1.0	50	0	95.2	77 - 123	47.15	1	20	
Surr: Toluene-d8	49.44	1.0	50	0	98.9	82 - 127	50.02	1.16	20	

The following samples were analyzed in this batch: HS22040998-01

Batch ID: 178013 ((0)	In	strument	:: UV-	-2450	М	ethod:	AMMONIA A	S N BY SM45	500 NH3-B-F-201
MBLK	Sample ID:	MBLK-178013			Units:	mg/L	An	alysis Date:	22-Apr-2022	15:52
Client ID:			Run ID:	UV-2450	_407190	SeqNo: 6	6614716	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	I	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Nitrogen, Ammonia (a	as N)	< 0.025	0	.050						
LCS	Sample ID:	LCS-178013			Units:	mg/L	An	alysis Date:	22-Apr-2022	15:52
Client ID:			Run ID:	UV-2450	_407190	SeqNo: 6	6614715	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Nitrogen, Ammonia (as N)	0.49	0	.050	0.5	0	98.0	85 - 115		
MS	Sample ID:	HS22041005-01	MS		Units:	mg/L	An	alysis Date:	22-Apr-2022	15:52
Client ID:			Run ID:	UV-2450	_407190	SeqNo: 6	6614713	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	l	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Nitrogen, Ammonia (as N)	0.851	0	.050	0.5	0.409	88.4	80 - 120		
MSD	Sample ID:	HS22041005-01	MSD		Units:	mg/L	An	alysis Date:	22-Apr-2022	15:52
Client ID:			Run ID:	UV-2450	_407190	SeqNo: 6	6614714	PrepDate:	22-Apr-2022	DF: 1
Analyte		Result	l	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Nitrogen, Ammonia (a	as N)	0.838	0	.050	0.5	0.409	85.8	80 - 120	0.851	1.54 20
The following samples	were analyze	d in this batch: HS	22040998-	·01						

QC BATCH REPORT

Batch ID:	R407060 (0)	Instrume	nt:	WetChem_HS	Me	eurou.	FLASH POIN SW1010A	T BY PENS	(Y-MARTENS
LCS	Sample ID:	LCS-R407060		Units: ° f	=	An	alysis Date:	21-Apr-2022	2 13:00
Client ID:		Run ID	Wet	Chem_HS_407060	SeqNo: 6	611636	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Ignitability		80.14	70.0	81	0	98.9	95 - 105		
DUP	Sample ID:	HS22040975-01DUP		Units: ° f	=	An	alysis Date:	21-Apr-2022	2 13:00
Client ID:		Run ID	Wet	Chem_HS_407060	SeqNo: 6	611637	PrepDate:		DF: 1
Analyte		Result	PQL		SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qua
Ignitability		> 212	70.0					0	0 20
The followin	g samples were analyze	ed in this batch: HS2204099	98-01						

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

Batch ID: R4071	66(0)	Instrumer	nt:	UV-2450	M	ethod: F	REACTIVE C	YANIDE	
MBLK	Sample ID:	MBLK-R407166		Units:	mg/L	Ana	alysis Date:	22-Apr-2022	14:30
Client ID:		Run ID:	UV-2	2450_407166	SeqNo: 6	614228	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Cyanide		< 100	100						
LCS	Sample ID:	LCS-R407166		Units:	mg/L	Ana	alysis Date:	22-Apr-2022	14:30
Client ID:		Run ID:	UV-2	2450_407166	SeqNo: 6	614227	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Cyanide		0.61	100	10	0	6.10	5 - 100		
MS	Sample ID:	HS22040812-01MS		Units:	mg/L	Ana	alysis Date:	22-Apr-2022	14:30
Client ID:		Run ID:	UV-2	2450_407166	SeqNo: 6	614229	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Cyanide		0.58	100	10	0	5.80	5 - 100		
The following sample	es were analyze	ed in this batch: HS2204099	8-01						

Client:WCAProject:FBRFL LeachateWorkOrder:HS22040998

Batch ID: R4071	68 (0)	Instrumer	nt:	WetChem_HS	Me	ethod: I	REACTIVE S	ULFIDE	
MBLK	Sample ID:	MBLK-R407168		Units:	mg/L	An	alysis Date:	22-Apr-2022	15:10
Client ID:		Run ID:	Wet	Chem_HS_4071	68 SeqNo: 6	614294	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		< 100	100						
LCS	Sample ID:	LCS-R407168		Units:	mg/L	An	alysis Date:	22-Apr-2022	15:10
Client ID:		Run ID:	Wet	Chem_HS_4071	68 SeqNo: 6	614293	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		68	100	100	0	68.0	20 - 120		
MS	Sample ID:	HS22040812-01MS		Units:	mg/L	An	alysis Date:	22-Apr-2022	15:10
Client ID:		Run ID:	Wet	Chem_HS_4071	68 SeqNo: 6	614295	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Reactive Sulfide		60	100	100	0	60.0	20 - 120		
The following sample	es were analyze	ed in this batch: HS22040998	8-01						

ALS Houston,	US								Date: 17-May-2
Client: Project: WorkOrder:		A RFL Leachate 22040998						QC BA	TCH REPORT
Batch ID: R4071	89 (0)	Ins	trument:	WetChem_HS	Μ	lethod:	PH BY SM45	00H+ B-2011	
DUP	Sample ID:	HS22040704-08D	UP	Units:	pH Units	Ar	nalysis Date:	22-Apr-2022	16:28
Client ID:		F	Run ID: We	tChem_HS_4071	89 SeqNo:	6614566	PrepDate:		DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
pН		6.4	0.100					6.41	0.156 10
Temp Deg C @pH		22.5	0	1				22.6	0.443 10

The following samples were analyzed in this batch: HS22040998-01

ALS Houston, US

Client: Project: WorkOrder:	WCA FBRFL Leachate HS22040998	QUALIFIERS, ACRONYMS, UNITS
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
М	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL/SDL	
Acronym	Description	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	
Unit Reported	Description	
°F	Farenheit degrees	
Date		
mg/Kg	Milligrams per Kilogram	
mg/L	Milligrams per Liter	
pH Units		

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-34	30-Jun-2022
Illinois	2000322022-9	09-May-2023
Kansas	E-10352 2021-2022	31-Jul-2022
Louisiana	03087, 2021-2022	30-Jun-2022
North Carolina	624-2022	31-Dec-2022
Texas	T104704231-22-29	30-Apr-2023

					Sample Receipt Checklist
Work Order ID: Client Name:	HS22040998 WCA - HOU			Time Received: ived by:	<u>20-Apr-2022 15:43</u> Paresh M. Giga
Completed By	: /S/ Paresh M. Giga	20-Apr-2022 17:23	Reviewed by: //	Ragen Giga	21-Apr-2022 21:37
	eSignature	Date/Time		eSignature	Date/Time
Matrices:	Water		Carrier name:	<u>Client</u>	
Custody seals i Custody seals i VOA/TX1005/T Chain of custod Chain of custod Samplers name Chain of custod Samples in pro Sample contain Sufficient samp All samples rec	ly signed when relinquished and e present on COC? ly agrees with sample labels? per container/bottle?	aled vials? received?	Yes Yes Yes Yes Yes Yes Yes Yes	No	Not Present Not Present Not Present Not Present 1 Page(s) COC IDs:48950
)/Thermometer(s):		1.0C/1.5C U/c		IR31
Cooler(s)/Kit(s)	:		47442		<u> </u>
Date/Time sam	ple(s) sent to storage:		4/20/2022 17:30		
Water - VOA vi	als have zero headspace?		Yes 🔽	No 🔲	No VOA vials submitted
Water - pH acc	eptable upon receipt?		Yes 📃	No 🔽	N/A
pH adjusted?			Yes 🔽	No 📃	N/A
pH adjusted by	:		Desmond Wacasey		
Login Notes:	All bottles have varied times. Logged in with earliest. Ammonia pH >2 (7). Pres'd with 1ml H2SO4 (Lot 31 4/20/2022 @ 16:10. Final pH (6 Trip Blank logged in on hold				
Client Contacte	ed:	Date Contacted:		Person Con	tacted:
Contacted By:		Regarding:			
Comments:					
Corrective Action	Dn:				

		Cincienati, OH +1 513 733 5336 -	Fort Collins, CO +1 970 490 151	, Cha	ain of Cus	stody Fo	rm		HS22	040998	
		Everett, WA +1 425 356 2600	Holland, Mi +1 616 399 607	0	Pageof					CA	
(A)	LS)				сос ю:4	+			,	Leachate	
	Customer Information		<u> </u>	Ducient I	ALS Projec	t Manager:	<u>,</u>				
Purchase Order	848000 1701		Project Name	Project Info							
Work Order	0.00001401	·····	Project Number	FBELF	Heachate	≈!	-	وعطاداليه	· · · · · · · · · ·		
Company Name	urh-Entrand		Bill To Company	· ··· ··· ···	·	ا: 		M John-	·		
Send Report To	WK&- Fort Brand Mark Mendery	Regional is	Invoice Attn	WCA-For	+ Benad Re	iglional 4		Restruide	.'		
Address	14115 Davis Es	tute Ril	Address		ieroandez NW.5 Estad		E A	Helipacid smana. Ca	5. NEXOC	jen J_	
City/State/Zip	Needy, 112 TX	77461	City/State/Zip	Needali	e, Tx F5	\$/4/ J G		CLIP Me		~ . ``	4
Phone	713-854-78		Phone	252-92	10-9863	י. יושיי H	1	1/C/R-	L'AN	iary !	
Fax	· · · · · · · · · · · · · · · · · · ·		Fax			· · · · · · · · · · · ·			· -··· -···	· · ·	
e-Mail Address		8 - - - - - - - - - - - - - - - - - - -	e-Mail Address					···· · ··· ···			······· · ·····
No.	Sample Description -'		Date T	me Mat	trix Pres.	#`Bottles	A : B	C D	EF	GHI	J Hold
2 52mis-	-Leadnole-We VOC'5 -Leadn	at 4	120/02 11: 1,10/02 11		ter 8	3	\times	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · ·
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10					-	· · · · ·	·- ··· ·	···· -·· · · · · · · · · · · · · · · ·	· -· ·		
Sampler(s) Please Pi		1	Shipment Meth		Turnaround Time	in Business Da	iys (BD)	Other 211Ar	TICIE	Results Due I	Date:
Relinquished by:	y Martin M	Marching S	Hand D	Plading			🗍 3 BD	2 BD	1 BD		
Relinquished by:		4120122 15	- 47 J	ed by (Laboratory)			tes: Cooler ID	Cooler Temp	OC Package: //	heck One Box Be	
ogged by (Laboratory):	Da	te: Time:	Check	20/by (Laboratory):		<u>3.45.[</u>		20	🗋 Level II Sid (эс	TRRP Checklist
Preservative Key:	1-HCI 2-HNO3 3-H	2SO4 4-NaOH			Other 8-4°C	9-5035	1445	-150-	Level III Std		TRRP Level IV
ofer 1 Any changes	must be made in writing or	· · · · · · · · · · · · · · · · · · ·						ا		-	

Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2012 by ALS Environmental,

IX-69 **RIGHT SOLUTIONS | RIGHT PARTNER**



CUSTODY SEAL	Seal Broken By:
Date: 2120/22 Time: 1213()	DW
Name: Mr. M. J. M. J. do. J.	Date:
Company: With - Fart Brend President WE	4/20/22



CUSTODY SEAL	Soal Broken By:
Date: 4/20/22 Time: 17:32	4/20/22
Name: Hark health	Dater
Company: WiA - FUNT BUNG BEE MIK INT.	4/20/22



ATTACHMENT III.D: WASTE ANALYSIS PLAN

Fort Bend Regional Landfill, LP Needville, Texas

APPENDICES

Appendix III.D.2 Summary Waste Profiles of Typical Off-Site Waste Streams



ATTACHMENT III.D.2 SUMMARY WASTE PROFILES OF TYPICAL OFF-SITE WASTE STREAMS Industrial Non-Hazardous Waste Permit Application

Fort Bend Regional Landfill, LP, Needville, Texas

Waste Name	Source	Class		Characteristic	Color	Odor	Does Waste Contain Free Liquids?	Solid %	рН	Flash Point		
3. Wash Water	Industrial	Class 1	5% Alimet	95% Water	Tan	Mild	Yes	0%	3-11	>200°F		
4. Tank Washouts	Industrial	Class 1	90-100% Water	0-20% Crude Base Oil and Water Emulsion	0-5% Unused Crude Oil	2-5% Dirt and Grit	Yellow to Black	Strong	Yes	5%	4-8	>200°F
4. Tank Washouts	Special Waste / Non-Industrial	Class 2 Like	100% Tank Water				Brown	No	Yes	0%	6.3	>200°F
6. Contaminated Stormwater	Industrial	Class 2	50% Natures Edge	50% Water			Clear to Green	Mild	Yes	1%	7-8	>200°F
7. Other Inorganic Liquids	Industrial	Class 2	100% Food Dye				Pale Blue	No	Yes	1%	4-10	>200°F
7. Other Aqueous Waste	Special Waste / Non-Industrial	Class 2 Like	100% Lint Water				Black	No	Yes	10%	7	NA
8. Scrubber Water	Industrial	Class 2	91-95% Water	0-9% CLP-1305	0-9% CCI		Clear / Amber	No	Yes	0%	5-9	>200°F
10. Nonhazardous Brine	Special Waste / Non-Industrial	Class 2 Like	5-20% Salt Water	80-95% Water			Clear	No	Yes	10%	5-10	>200°F
10. Nonhazardous Brine	Industrial	Class 2	100% Brine Water				Clear	No	Yes	0%	7.5	>150°F



ATTACHMENT III.D: WASTE ANALYSIS PLAN

Fort Bend Regional Landfill, LP Needville, Texas

APPENDICES

Appendix III.D.3 **GFL Special Waste Profile**



SPECIAL WASTE PROFILE

environmental Nu (D () ()					
Requested Disposal Facility: Waste Profile #					
Saveable fill in form. Restricted printing until all required (yellow) fields are completed.					
I. Generator Information Sales Rep #.					
Generator Name:					
Generator Site Address:					
City: County: State: Zip:					
State ID/Reg No: State Approval/Waste Code: (if applicable) NAICS # :					
Generator Mailing Address (if different):					
City: County: State: Zip:					
Generator Contact Name: Email:					
Phone Number: Ext: Fax Number:					
IIa. Transporter Information					
Transporter Name: Contact Name:					
Transporter Address:					
City: County: State: Zip:					
Phone Number: Fax Number: State Transportation Number:	Transportation Number:				
IIb. Billing Information					
Bill To: Contact Name:					
Billing Address: Email:					
City: State: Zip: Phone:					
III. Waste Stream Information					
Name of Waste: RESULTS					
Process Constanting Waste:					
SPECIFIC GRAVITY					
TEMERATURE					
Physical State: SOLID SEMI-SOLID POWDER LIQUID					
Method of Shipment: BULK DRUM BAGGED OTHER:					
Estimated Annual Volume:					
Frequency: ONE TIME ANNUAL					
Disposal Consideration: LANDFILL SOLIDIFICATION INJECTION					
IV. Representative Sample Certification INO SAMPLE TAKEN Is the representative sample collected to prepare this profile and laboratory INO SAMPLE TAKEN					
Lanaivsis, collected in accordance with U.S. EPA 40 CER 261 20(C) duidelines or U. Liveo an L. NO					
analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or YES or NO equivalent rules?					
equivalent rules?					



SPECIAL WASTE PROFILE (continued)

GREEN	FOR LIFE			_					
environmental V								file #	
V. Physical Charac	cteristics of Wa	ste							
Characteristic Comp		516			%bv W	/eight (ra	nae)		
1.					, e e j i i				
2.									
3.									
4.									
5. Color Odor (describe)	Does Waste Contain Free L	iauide?	% Solids		pH:		Flack	n Point
	uescribe)		No			pri.		1 1451	°F
Attach Labora		port (and/or Material Sa				g Chain o	of Cust	ody a	
Doos this wests or concretiv		Required Parameters Pro lated concentrations of the foll		· · · · · ·		dage			
-		indane, Methoxychlor, Toxapł	-						
defined in 40 CFR 261.33?							□ Y	es or	No No
[reference 40 CFR 261.2	23(a)(5)]?	ater than 500 ppm) or reacting	-				Πy	es or	No No
Does this waste contain r Part 761?	regulated concentration	ons of Polychlorinated Biph	enyls (PCBs) as defin	ned in 40	0 CFR	□ _Y	es or	No No
Does this waste contain of 261.33, including RCRA		ed hazardous wastes defined	l in 40	CFR 261.31, 2	261.32,		Y	es or	No
		eristic as defined by Federal	and/or	State regulation	ons?		ΓY	es or	No
Does this waste contain i other dioxin as defined in	•	ons of 2,3,7,8-Tetrachlorod	ibenzoo	dioxin (2,3,7,8	-TCCD)), or any		es or	□ _{No}
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?							Y I	es or	No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?							Y	es or	No
Is this waste a reactive or heat generating waste?							Y	es or	No
Does the waste contain sulfur or sulfur by-products?							es or	No	
Is this waste generated at a Federal Superfund Clean Up Site?							Y	es or	No
Is this waste from a TSD facility, TSD-like facility or waste consolidator?							Y	es or	No
VI. Certification									
		f, the information contained herein is een disclosed. All Analytical Resu							-
classified as toxic waste, hazard notice of any change or conditio resulting from this certification b	dous waste or infectious wa on pertaining to the waste n eing inaccurate or untrue.	other employee of the company wil iste, or any other waste material this ot provided herein. Our company h	facility is ereby agi	prohibited from ac rees to fully indem	ccepting by nify this dis	y law. I shall sposal facility	immediate against a	ely give any dama	written ages
	any has not altered the fo	orm or content of this profile shee		nueu by Waste C	σιμοιαιιοι	nor rexas, l	L.F. DBA	GFL E	monmental
Authorized Representative Name/Title Company Na									1
						Data			
						Date			
	oval Decision					•			
Approved	Rejected				Exp	piration:			
Conditions:									

Name, Title

Signature

Date



Fort Bend Regional Landfill, LP Needville, Texas

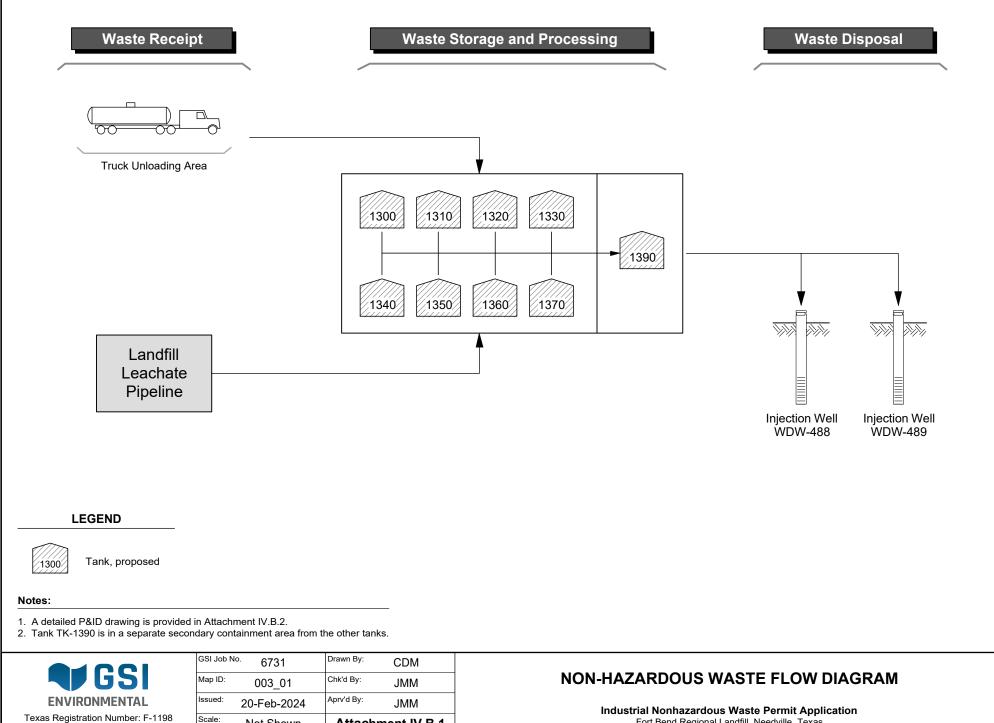
	ATTACHMENTS – SECTION IV
Attachment IV.B.1	Non-Hazardous Waste Flow Diagram
Attachment IV.B.2	Piping and Instrumentation Diagram
Attachment IV.C	USGS Topographic Map
Attachment IV.D.1	Site Map
Attachment IV.D.2	Wind Rose for Needville, Texas
Attachment IV.G.1	Engineering Report for Tanks TK-1300, TK-1310, TK-1320, TK-1330,
	TK-1340, TK-1350, TK-1360, and TK-1370
Attachment IV.G.2	Engineering Report for Tank TK-1390



Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT IV.B.1

Non-Hazardous Waste Flow Diagram



Not Shown

Attachment IV.B.1

Fort Bend Regional Landfill, Needville, Texas



Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT IV.B.2

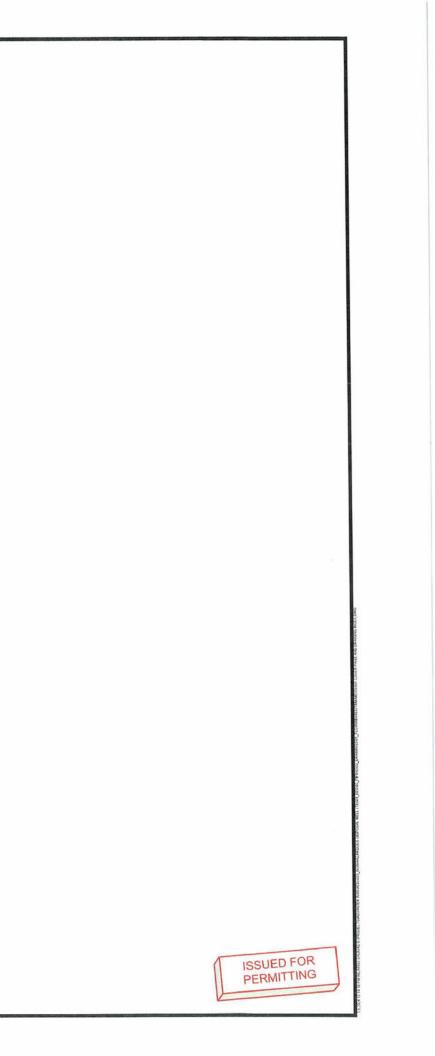
Piping and Instrumentation Diagram

ADVANTEK WMS NON-HAZARDOUS DISPOSAL WELL COVER PAGE & DRAWING INDEX PIPING

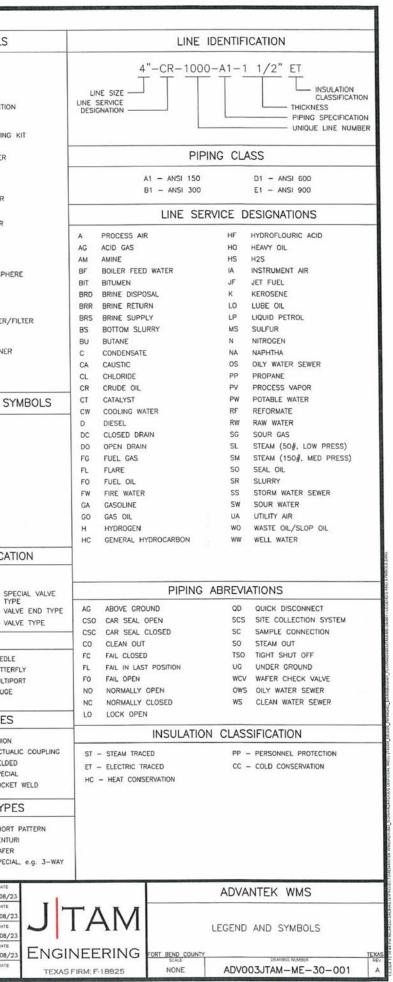
DRAWING INDEX					
DRAWING NO	DRAWING DESCRIPTION	REV NO			
ADV003JTAM-ME-00-001	COVER PAGE AND DRAWING INDEX	-			
ADV003JTAM-ME-30-001	LEGEND AND SYMBOLS	A			
ADV003JTAM-ME-30-002	LEGEND AND SYMBOLS	A			
ADV003JTAM-ME-30-100	OFFLOAD AREA & STORAGE TANKS PFD	с			
ADV003JTAM-ME-30-101	PUMP & SURFACE EQUIPMENT PFD	с			
ADV003JTAM-ME-30-102	BLOCK FLOW DIAGRAM	С			

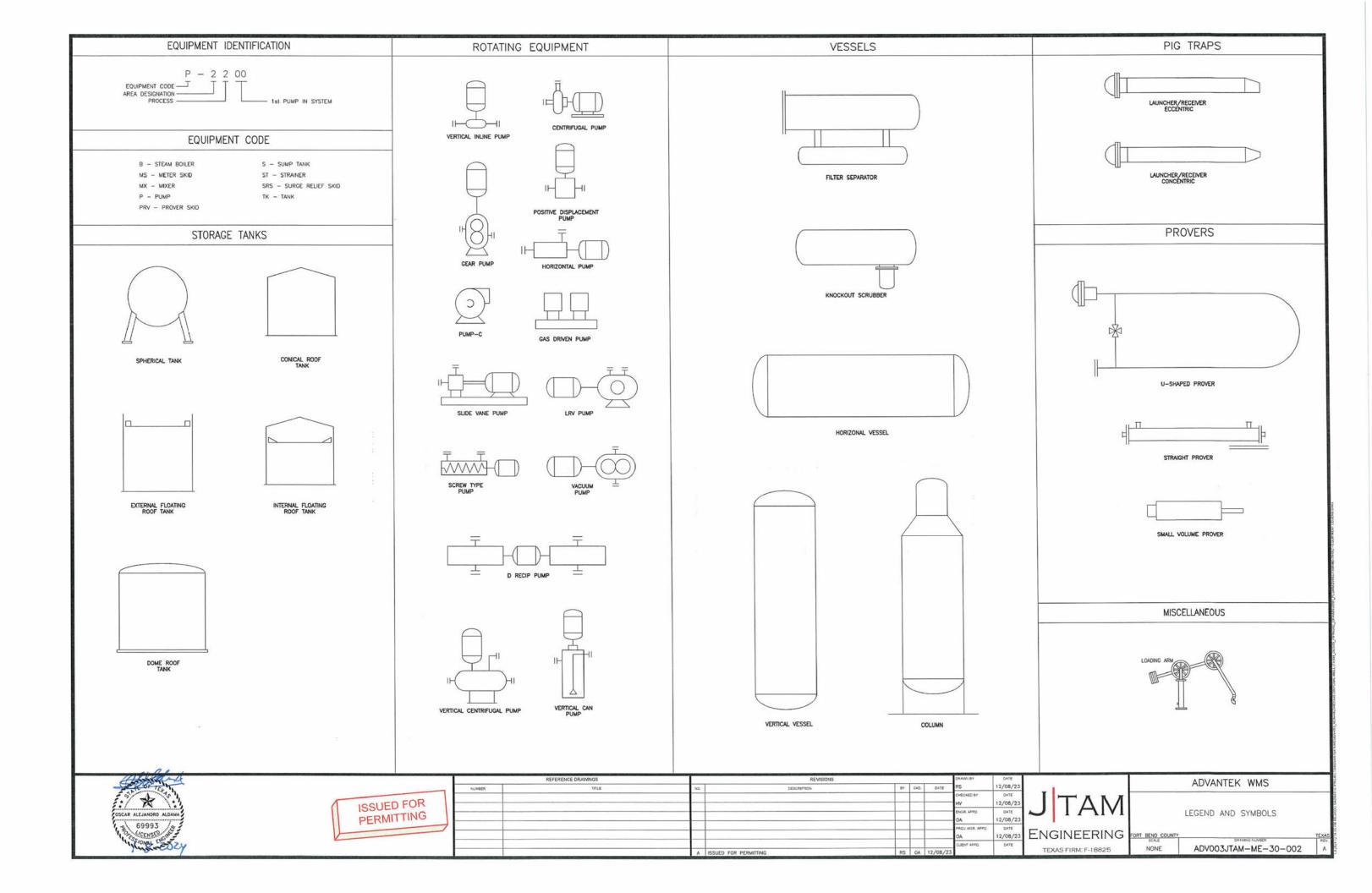


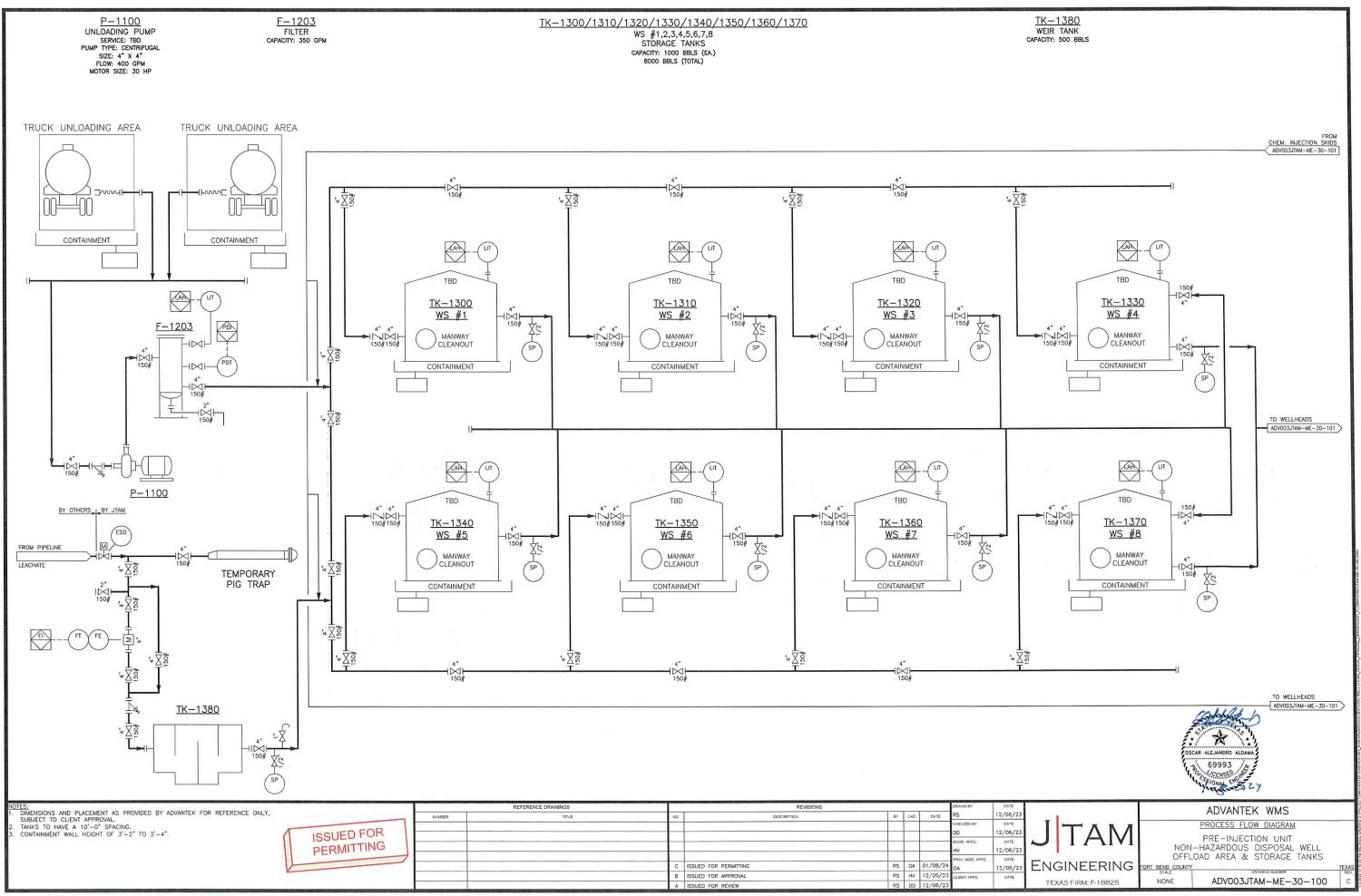
FORT BEND COUNTY, TEXAS J TAM ENGINEERING JANUARY 2024

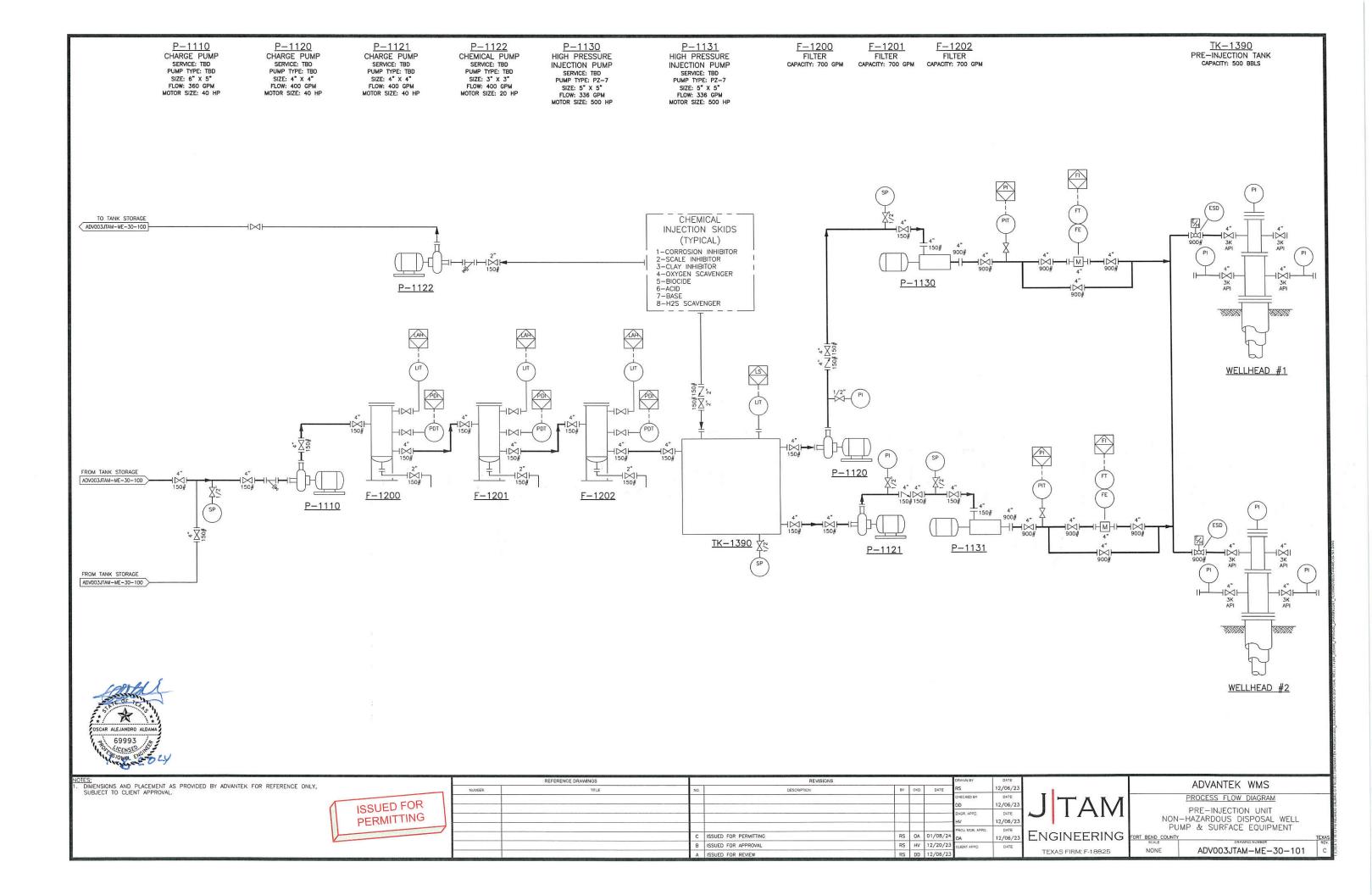


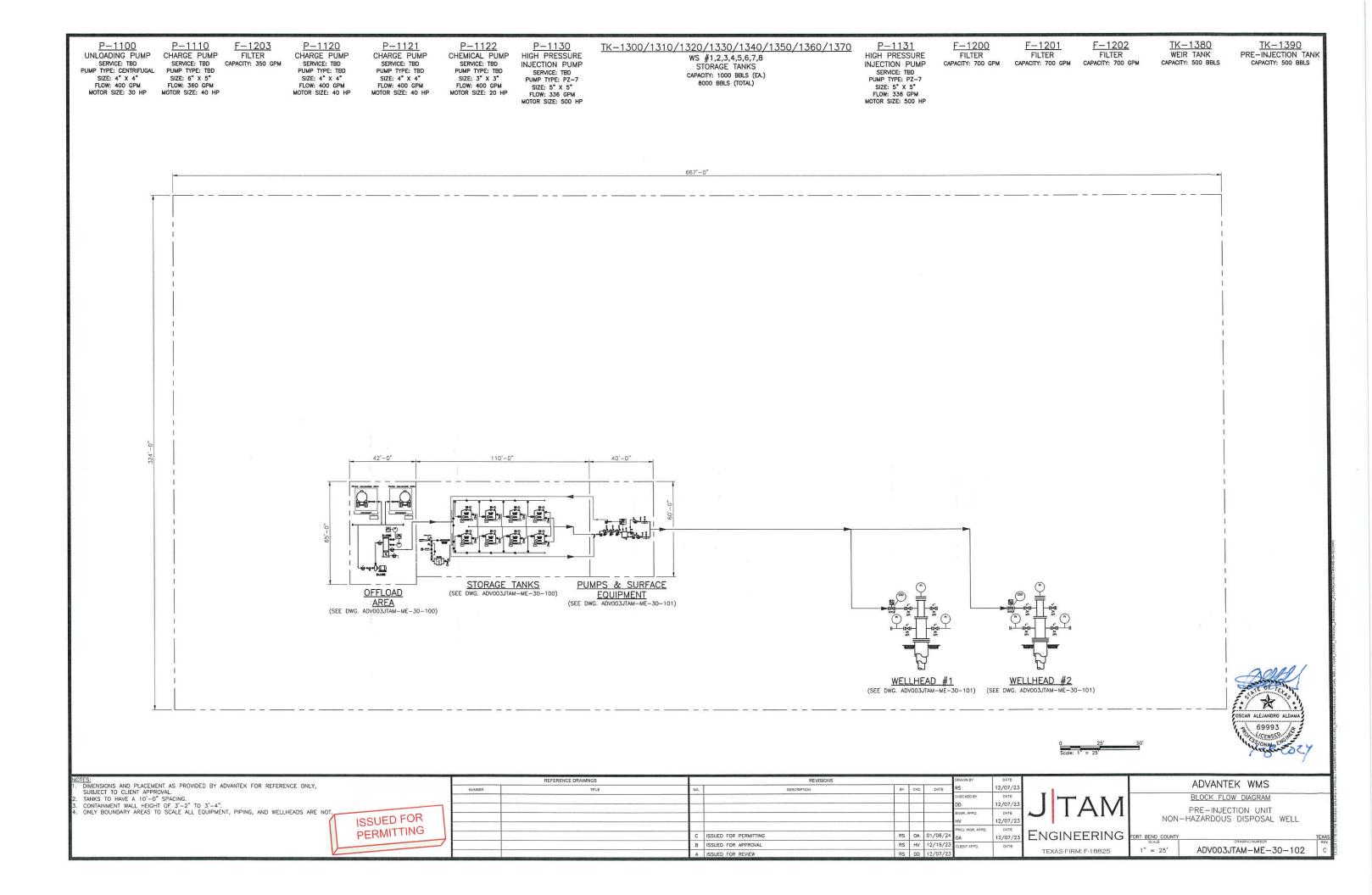
		ATION LETTERS	INSTRUMENT BALLOONS	VALVE ACTUATORS	PIPING SYMBOLS
10	7				Ш
AC AE	ANALYSIS CONTROLLER ANALYSIS ELEMENT	ST SPEED TRANSMITTER SY SPEED RELAY	\cap		
AI	ANALYSIS INDICATOR	TA* TEMPERATURE ALARM	() LOCAL INSTRUMENT	CYLINDER T VALVE	FLAT STRAINER
AIC	ANALYSIS INDICATING CONTROLLER	TC TEMPERATURE CONTROLLER	INSTRUMENT MOUNTED ON EQUIPMENT CONTROL	SOLENOID OPRESSURE MOTOR BALANCED OPERATED	PIPE UNION
AP BI	ANALYSIS POINT BTU INDICATOR	TCV TEMPERATURE CONTROL VALVE (SELF-CONTAINED) TE TEMPERATURE ELEMENT (W/THERMOWELL)	PANEL	BALANCED M OPERATED VALVE	FLANGE CONNECT
DE	DENSITY (OR SPECIFIC GRAVITY) ELEMENT	THC TEMPERATURE MANUAL CONTROL	INSTRUMENT MOUNTED BEHIND STATION CONTROL	ELECTRO HYDRAULIC	(G)
DR	DENSITY (OR SPECIFIC GRAVITY) RECORDER	TI TEMPERATURE INDICATOR	PANEL	HYDRAULIC	FLANGE INSULATIN
DT EA	DENSITY (OR SPECIFIC GRAVITY) TRANSMITTER ELECTRICAL LOSS OF LOAD	TIC TEMPERATURE INDICATING CONTROLLER TIT TEMPERATURE INDICATING TRANSMITTER			
FA*	FLOW ALARM	TR TEMPERATURE RECORDER	(==) INSTRUMENT MOUNTED BEHIND EQUIPMENT CONTROL PANEL	IN-LINE INSTRUMENTS	DUPLEX STRAINER
FC	FLOW CONDITIONER	TS* TEMPERATURE SWITCH	UNSTRUMENT FOR TWO FUNCTIONS OR TWO		
FCD	FLOW CONTROLLER	TT TEMPERATURE TRANSMITTER TV TEMPERATURE CONTROL VALVE OR LOUVER	() MEASURED VARIABLES	FLOW ORIFICE (VALVES INFERRED)	STEAM TRAP
FCV	FLOW CONTROL VALVE (SELF-CONTAINED) FLOW ELEMENT	TV TEMPERATURE CONTROL VALVE OR LOUVER TW THERMOWELL			
FG	SIGHT GLASS FLOW INDICATOR	UE ULTRAVIOLET ELEMENT	N UNIT PLC FUNCTION	VENTURI TUBE OR	000
FI	FLOW INDICATOR	UIC ANTI-SURGE INDICATING CONTROLLER	(NUMBER INDICATES WHICH UNIT)	FLOW NOZZLE	INLET AIR FILTER
FIC	FLOW INDICATING CONTROLLER FLOW INDICATING SWITCH	VA* VIBRATION ALARM VS VIBRATION SWITCH			
FIT	FLOW INDICATING TRANSMITTER	XA* ANNUNCIATOR POINT	STATION PLC FUNCTION	TURBINE OR PROPELLER	\square
FHC	FLOW MANUAL CONTROL	XI PIG PASSAGE INDICATOR			RAIN CAP
FQ FQI	FLOW TOTALIZER FLOW TOTALIZING INDICATOR	XIS PIG PASSAGE INDICATING SWITCH ZIC POSITION INDICATOR (CLOSED)	SHARED DISPLAY, SHARED DCS CONTROL	CLAMP-ON ULTRASONIC FLOW METER	VENT TO ATMOSP
FOR	FLOW TOTALIZING RECORDER	ZIO POSITION INDICATOR (OPEN)		#	
FR	FLOW RECORDER	ZLC POSITION INDICATOR LAMP (CLOSED)	INTERLOCK AT PLC		BLEED RING
FRC FS*	FLOW RECORDING CONTROLLER FLOW SWITCH	ZLO POSITION INDICATOR LAMP (OPEN) ZSC POSITION INDICATOR SWITCH (CLOSED)			=
FT	FLOW TRANSMITTER (NOT PdT)	ZSO POSITION INDICATOR SWITCH (OPEN)			
FV	FLOW CONTROL VALVE	ZT POSITION TRANSMITTER			
FY GT	FLOW COMPUTER OR RELAY DENSITY-GRAVITY INSTRUMENT	ALARMS, SWITCHES, AND ANNUNCIATORS	RELAY FUNCTION DESIGNATIONS		FLOW CONDITION
HC	HAND CONTROL	MAY HAVE SUFFIX LETTERS AS FOLLOWS:			
HCV	HAND CONTROL VALVE	L LOW DENOTES ALARM ONLY	Σ TOTALIZE DEV DEVICE		
HIC	HAND INDICATING CONTROLLER	L LOW DENOTES ALARM ONLY LL LOW LOW DENOTES SHUTDOWN	LOW SIGNAL SELECT DA AVERAGE	UTTER THAT RUTAMETER	INSOCAION
HS HSC	HAND SWITCH HAND SWITCH CLOSE	H HIGH DENOTES ALARM ONLY			MISCELLANEOUS PIPING
HSO	HAND SWITCH OPEN	HH HIGH HIGH DENOTES SHUTDOWN	> HIGH SIGNAL SELECT	<u> </u>	MISCELLANEOUS FIFING .
HV	HAND VALVE		SEL SELECT	MAGNETIC FLOW METER	
LA* LC	LEVEL ALARM LEVEL CONTROLLER	NOTE: UNLESS SPECIFICALLY INDICATED OTHERWISE, SOLENOID			SP SPECIALTY ITEM
LCV	LEVEL CONTROL VALVE (SELF-CONTAINED)	VALVES, SPRING RETURN SERVO VALVES, AND SIMILAR DEVICES ARE SHOWN IN THE "SHELF" OR NON-ENERGIZED	VALVE SYMBOLS	INSTRUMENT PURGE	
LG	LEVEL GAUGE GLASS	CONDITION. DIRECTION OF SOLENOID ARROW SHOWS			150 600 SPEC BREAK
LHC	LEVEL MANUAL CONTROL	DE-ENERGIZED PORT-PORT PATH.	GATE VALVE		
LIC	LEVEL INDICATOR (OTHER THAN LG) LEVEL INDICATING CONTROLLER		DOCI BALL VALVE	PIPING SYMBOLS	
LR	LEVEL RECORDER	NOTE: IDENTIFICATION OF INSTRUMENTS NOT COVERED IN THE LISTINGS ABOVE SHALL CONFORM TO ANSI/ISA S5.1	IXI PLUG VALVE		TIE-POINT
LS*	LEVEL SWITCH	"INSTRUMENTATION SYMBOLS AND IDENTIFICATION".	LAA PLUG VALVE	ECCENTRIC REDUCER	
LV	LEVEL TRANSMITTER LEVEL CONTROL VALVE		GLOBE VALVE	CONCENTRIC REDUCER	
LY	LEVEL RELAY		BUTTERFLY VALVE		A
MA*	MOISTURE ALARM	INSTRUMENT SIGNAL LINES	514	8	
ME	MOISTURE ELEMENT MOISTURE CONTROLLER		NEEDLE VALVE		VALVE TAG IDENTIFIC
MNT	MOISTURE ANALYZER / TRANSMITTER	INSTRUMENT SUPPLY OR PROCESS CONNECTION	CHOKE VALVE	ę	6" A 2 R F
MOV	MOTOR OPERATED VALVE	PNEUMATIC SIGNAL	ANGLE CHOKE VALVE	SPECTACLE BLIND (CLOSED)	
MR MS*	MOISTURE RECORDER MOISTURE SWITCH	PREOMAIL SIGNAL	and the second se	PADDLE BLIND (OPEN)	VALVE SIZE
MT	MOISTURE TRANSMITTER	ELECTRICAL SIGNAL	GAUGE VALVE	1	PIPING CLASS
PA*	PRESSURE ALARM	HYDRAULIC SIGNAL	4-WAY VALVE	PADDLE BLIND (CLOSED)	,
PC PCV	PRESSURE CONTROLLER PRESSURE CONTROL VALVE (SELF-CONTAINED)			PADDLE SPACER	VALVE TYPES
PDI	PRESSURE DIFFERENTIAL INDICATOR		3-WAY VALVE	D WELD CAP	
PDIC	PRESSURE DIFFERENTIAL INDICATING CONTROLLER	FIBER OPTIC	ANGLE VALVE		1 GATE 6 NEED 2 BALL 7 BUT
PDR	PRESSURE DIFFERENTIAL RECORDER PRESSURE DIFFERENTIAL INDICATING SWITCH	"DATA LINK" COMMUNICATION	CHECK VALVE (SWING CHECK TYPE)	SOCKET WELD CAP	3 PLUG 8 MUL
PDIT	PRESSURE DIFFERENTIAL INDICATING TRANSMITTER		0		4 GLOBE 9 GAU
PDS*	PRESSURE DIFFERENTIAL SWITCH	FIELDBUS	CHECK VALVE (PISTON TYPE)	BLIND FLANGE	5 CHECK
PDT PHC	PRESSURE DIFFERENTIAL TRANSMITTER PRESSURE MANUAL CONTROL	PROCESS (MAJOR)	CHECK VALVE (SAFETY)	ST OR TYPE STRAINER	VALVE END TYPE
PI	PRESSURE INDICATOR	SECONDARY (MINOR)	(C)	Y X	
PIC	PRESSURE INDICATING CONTROLLER		SOLENOID VALVE		F FLAT FACE U UNIC
PIT	PRESSURE INDICATING TRANSMITTER PRESSURE RECORDER				G GRAYLOC V VICT
PRC	PRESSURE RECORDING CONTROLLER	EXIST	Si → Φ		J RING TYPE JOINT W WELL
PS.	PRESSURE SWITCH	TO/FROM XXX	SOLENOID VALVE W/MANUAL RESET	EXPANSION JOINT	R RAISED FACE X SPEI S SCREWED Z SOC
PSE PSV	RUPTURE DISK	DWG NO CONTINUATION LEADER			3 300L MED 2 500
PSV	PRESSURE SAFETY / RELIEF VALVE PRESSURE TRANSMITTER	SERVICE		OPEN DRAIN	SPECIAL VALVE TY
PV	PRESSURE CONTROL VALVE	SKID BOUNDARY	PRESSURE REGULATOR (SELF-CONTAINED)	CLOSED DRAIN	
PY RO	PRESSURE RELAY RESTRICTION ORIFICE		PRESSURE SAFETY/RELIEF VALVE	Y	F FULL PORT S SHO
SC	SPEED CONTROL				N NACE V VEN
SI	TACHOMETER				P PISTON W WAF
SIC	SPEED INDICATING CONTROLLER			BARRED TEE	R REDUCED PORT X SPE
SS*	SPEED SWITCH				DRAWN BY DAT
	Contractory of the second		REFERENCE DRAWINGS	REVISIONS NO. DESCRIPTION	BY CKD. DATE RS 12/08
	A				CHECKED BY DAT
	<u>/ * `:</u>	ISSUED FOR			HV 12/08 Exc8, APP0 DAT
	OSCAR ALEJANDRO ALDAMA	PERMITTING			0A 12/08
	69993				PROJ MGR, APPD. DAT
	AND ALCENSED IN AY				OA 12/08 CLIERT APPD. DAT
	maria -			A ISSUED FOR PERMITTING	RS 0A 12/08/23









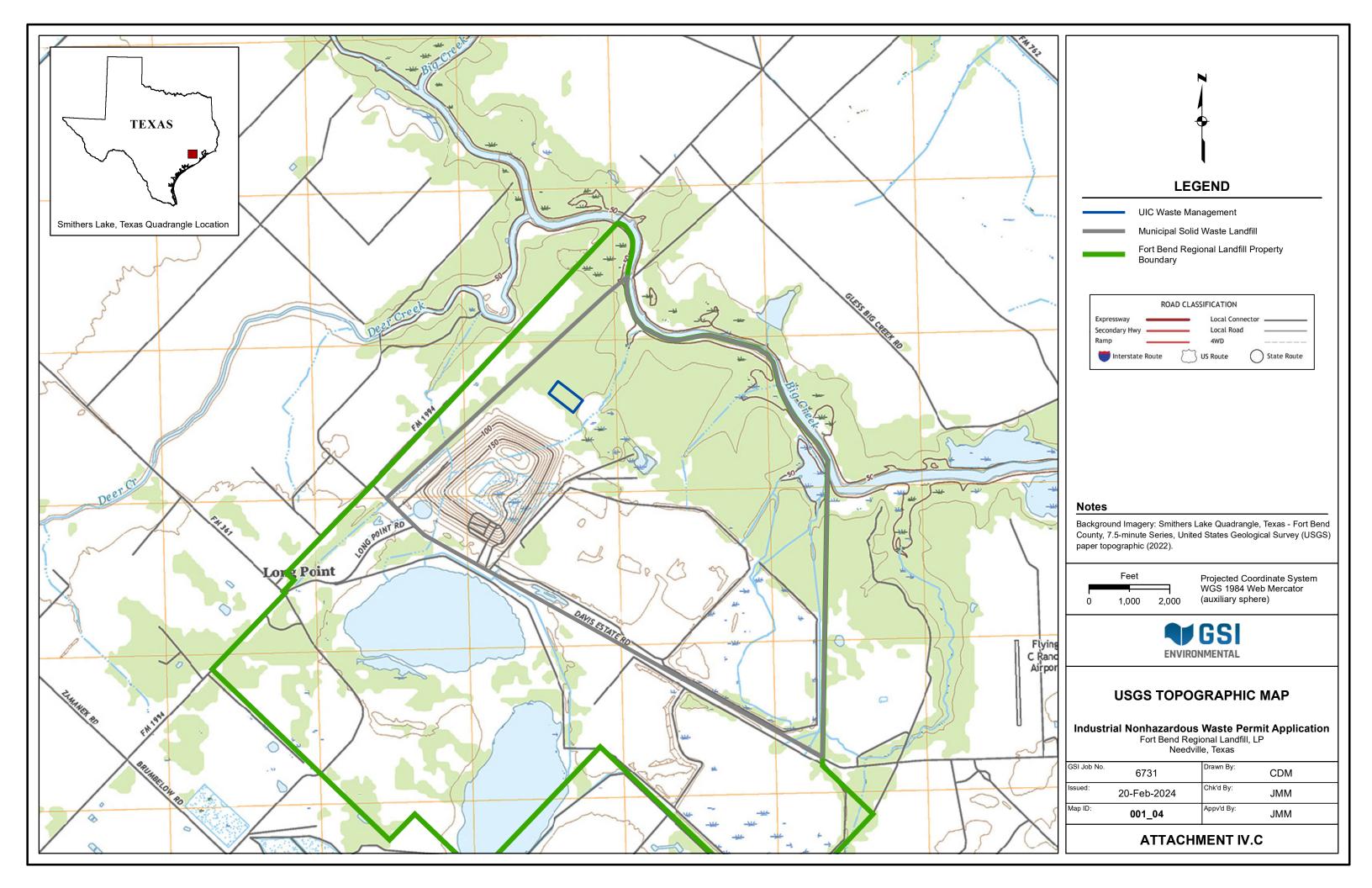




Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT IV.C

USGS Topographic Map



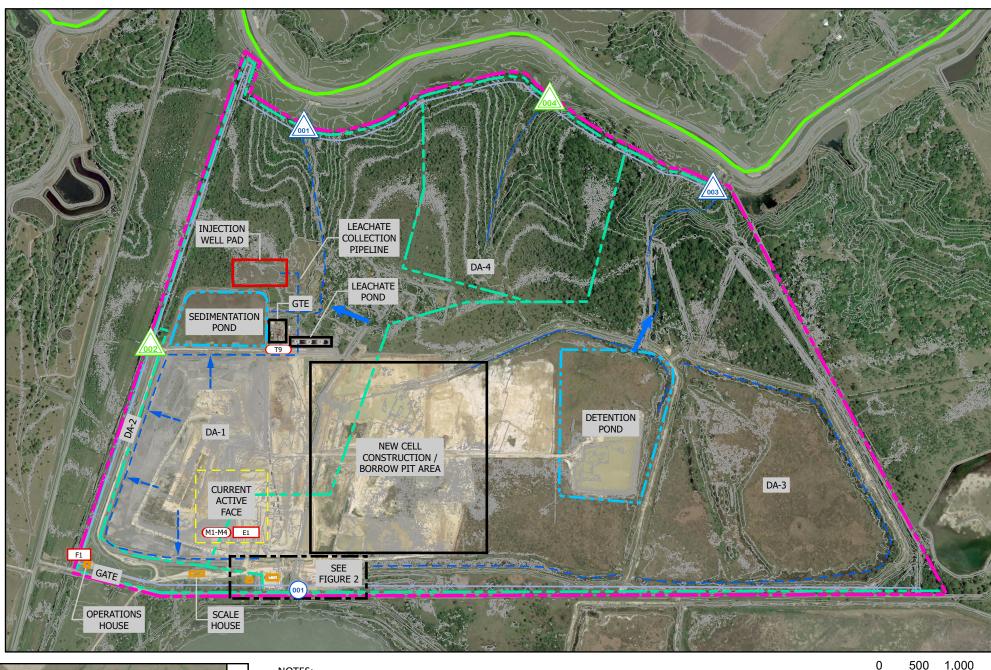




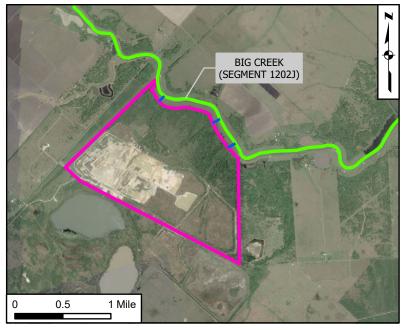
Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT IV.D.1

Site Map



Aerial: Google Earth Pro Historical Imagery 12/01/2019



NOTES:

- 1. THE FIRST NAMED RECEIVING WATERBODY IS: BIG CREEK (SEGMENT 1202J), WHICH IS LISTED AS A 303(d) IMPAIRED WATER BODY BY THE TCEQ FOR BACTERIA (RECREATION USE).
- 2. THE FACILITY DOES NOT DISCHARGE TO A MS4.
- 3. THE APPROXIMATE LOCATION OF THE ENTRANCE TO THE FACILITY IS: 29.395630°N / -95.715506°W.
- 4. PROPERTY IS COMPRISED OF APPROXIMATELY 1,150 ACRES.
- 5. SCALE BAR ONLY APPLIES TO THE LARGE SITE MAP, AND NOT THE INSERT.
- 6. NORTH ARROW APPLIES TO ONLY THE LARGE SITE MAP AND NOT THE INSERT.
- 7. INFALL 001 REPRESENTS WHERE WATER FROM DITCHES ON THE OTHER SIDE OF DAVIS ESTATE RD. ENTERS THE PROPERTY.
- 8. ACTIVE FACE LOCATION SHOWN IS TYPICAL AND WILL VARY DEPENDING ON LANDFILL OPERATIONS. ACTIVE FACE IS ESTABLISHED WITH DIVERSION AND CONTAINMENT BERMS IN ACCORDANCE WITH SITE OPERATING PLAN.
- 9. FOR LOCATION AND INFORMATION REGARDING LEACHATE COLLECTION AND TREATMENT SYSTEMS REFER TO SEPARATE LEACHATE SITE PLAN.
- 10. REFERENCE LEACHATE COLLECTION SYSTEM FIGURES FOR DETAILED INFORMATION.
- 11. THIRD PARTY POWER PLANT (FORT BEND POWER PRODUCERS) OPERATES ON FACILITY GROUNDS.

OUTFALL / SAMPLE POINT COORDINATES:

OF 001: 29.405993°N / -95.709308°W OF 002: 29.401752°N / -95.719212°W OF 003: 29.397316°N / -95.696417°W OF 004: 29.402728°N / -95.700289°W



1 –250 E1 HYDRAULIC OIL Fort Bend Landfill 14115 Davis Estate Rd.

Rev#0

0

<u>TANKS</u>

T9 CONDENSATE

MOBILE TANKS

M2 USED OIL

M3 MOTOR OIL

M3 ANTIFREEZE

F1 MINERAL OIL

OIL FILLED EQUIPMENT

JOB#: AWF1808411

M1 DIESEL

Needville, TX 77461

					LONTOURS	
2 –106,0	000 GALLON TANKS					
1 –200 (1 –180 () GALLON TANK ON MOB GALLON TANK ON MOBIL GALLON TANK ONMOBILE ALLON TANK ONMOBILE	ł	ENVIRON	GSI IMENTAL rd 1-June-2024		
	ALLON TRANSFORMERS GALLON TANK ON TIPPER				oplication IV.D.1	
		FIGURE:				
ll Rd. 61	SWPPP / SPCC SITE PLAN	1		G	ľ	
#0	APPR: AH	DSN: JC	SCAL	E: MAP SCALE	DATE: 10-31-202	21



DA-# LD/ULD TR (s)**T**#

(#)

 \otimes

(M#)

E#

F#

LEGEND

PROPERTY BOUNDARY

DRAINAGE BOUNDARY

DETENTION / SEDIMENTATION POND

DISCHARGE ROUTE

RECEIVING WATERBODY

FENCE

DITCH / CREEK / SWALE

DRAINAGE STRUCTURES (PIPES, CULVERTS, LET DOWNS)

FLOW DIRECTION

DRAINAGE AREA

LOADING / UNLOADING

OUTFALL (TO BE SAMPLED)

OUTFALL

(NOT SAMPLED)

INFALL

TIRE STORAGE

PORT-O-LETS

STRUCTURE

SECONDARY CONTAINMENT

SPILL KIT

DRAIN CONTAINMENT FOR

OUTPUT PIC 6

SCRAP METAL ROLLOFF/HOPPER

AST (ABOVE GROUND STORAGE TANK) #

MOBILE TANK #

OIL FILLED EQUIPMENT #

DRUMS / TOTES / #

TRANSFORMER #

TOPOGRAPHIC CONTOURS



Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT IV.D.2

Wind Rose for Needville, Texas

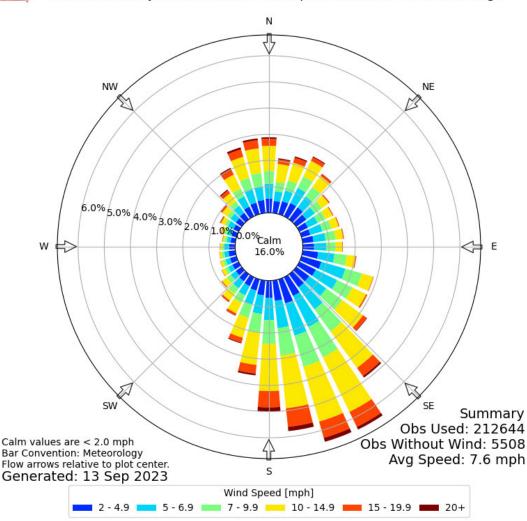


ATTACHMENT IV.D.2 WIND ROSE FOR NEEDVILLE, TEXAS

Industrial Nonhazardous Waste Permit Application

Fort Bend Regional Landfill, LP, Needville, Texas

Windrose Plot for [SGR] HOUSTON/HULL FIELD Obs Between: 01 Jul 1996 05:50 AM - 13 Sep 2023 02:53 AM America/Chicago



<u>Note</u>: The wind rose was obtained from the Iowa State University Environmental Mesonet website for Needville, Texas. The wind measurements were obtained from 2009 to 2023 at Sugar Land Regional Airport, located approximately 16 miles north of the Fort Bend Regional Landfill, LP facility.

Website:

https://mesonet.agron.iastate.edu/sites/windrose.phtml?station=ARM&network=TX_ASOS



Fort Bend Regional Landfill, LP

Needville, Texas

ATTACHMENT IV.G.1

Engineering Report for Tanks TK-1300, TK-1310, TK-1320, TK-1330, TK-1340, TK-1350, TK-1360, and TK-1370



ATTACHMENT IV.G.1 ENGINEERING REPORT FOR TANKS TK-1300 THROUGH TK-1370

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas

I, James M. McDade, a registered professional engineer in the State of Texas, certify that the Engineering Report issued 20 February 2024 and revised 4 June 2024 for Tanks TK-1300, TK-1310, TK-1320, TK-1330, TK-1340, TK-1350, TK-1360, and TK-1370 (Notice of Registration Unit Nos. 001 through 008) located on the Fort Bend Regional Landfill in Needville, Texas, has been developed in general accordance with good engineering practices and requirements of 30 TAC 305.45(a)(8)(A).



my

4 June 2024

James M. McDade, P.E. State of Texas Registration No. 115868 GSI Environmental Inc. Texas Registration No. F-1198



1.0 INTRODUCTION

This section summarizes the engineering aspects of the proposed permitted nonhazardous waste tanks TK-1300, TK-1310, TK-1320, TK-1330, TK-1340, TK-1350, TK-1360, and TK-1370 (collectively referred to as Tanks), located on the Fort Bend Regional Landfill (FBRL) facility. The location of the Tanks is shown on the facility plans (see Attachment IV.C). General information on the tanks, including capacity and wastes managed, is summarized on Table IV of this permit application. A figure showing a general diagram of the Tanks is provided in Figure IV.G.1.1 and additional detailed design of the secondary containment area is provided on Figure IV.G.1.2.

1.1 Basis for the Engineering Report

The Tanks will be located in the northern portion of the FBRL facility in Fort Bend County, near Needville, Texas (see Attachment IV.C). This engineering report has been prepared to certify that the design for the tanks meets applicable standards as specified in 30 TAC 305.45(a)(8). After approval of this permit application, the tanks will be installed and tested to certify conformance with this engineering report, applicable regulations, and nonhazardous waste permit provisions. A tank installation certification report will be prepared and submitted to TCEQ prior to placing the new Tanks into service.

1.2 Wastes to be Managed in the Tanks

Wastes 1 through 10 listed on Table III.B of this permit application will be managed in the Tanks (see Table III.B of this permit application). These wastes may be segregated based on chemical properties, including pH. Chemical agents, such as neutralization agents, corrosion inhibitors, and biocides may be added to each tank via an injection skid with diaphragm pumps as necessary to achieve the desired fluid properties. The Tanks will store the wastes before passing through filter bag modules to the Pre-Injection Tank, TK-1390.

2.0 DESIGN AND INSTALLATION OF THE TANKS

2.1 Design of the Tanks

The Tanks will be designed in general accordance with API Specification 12P for Fiberglass Reinforced Plastic Tanks or an equivalent standard. The Tanks will be constructed of fiberglass and oriented vertically, with an approximate height of 30 ft and an approximate diameter of 15 ft, corresponding to a maximum design capacity of 42,000 gallons (see Figure IV.G.1.1). Although not required, the foundation, structural support, seams, and connections of the Tanks have been designed and materials selected in accordance with 40 CFR 264.192 in order to: i) possess sufficient structural strength, ii) be compatible with the non-hazardous materials managed, and iii) prevent corrosion so that the Tanks will be protected from collapse, rupture, or failure. The Tanks will be installed within secondary containment in the northern portion of the FBRL facility (see Attachment IV.C).

1

GSI Job No. 6731



The foundation for the Tanks will be constructed of reinforced concrete capable of maintaining the load of the Tanks when filled. The foundation of the Tanks will be resistant to pressure gradients above and below the system and is capable of preventing failure due to settlement, compression, and/or uplifts. The Tanks will not be in contact with soil or water, will be located aboveground, and will not be subject to frost heave.

2.2 Installation of the Tanks

The Tanks and ancillary equipment will be installed in accordance with standard engineering practices for quality control and testing. The Tanks will be handled in a manner to prevent damage during installation. Ancillary piping will be constructed of polybutylene, high-density polypropylene, or equivalent with welded, flanged connections, and tie-downs designed to accommodate possible expansion and contraction. Following installation of the Tanks, a professional engineer registered in the State of Texas will review information regarding installation of the tanks, ancillary equipment, and piping for evidence of potential weld breaks, punctures, scrapes, cracks, corrosion, or other structural damage, and an Installation Certification Report will be submitted to the TCEQ.

3.0 CONTAINMENT AREA

Potential releases to the environment will be prevented by locating the Tanks and ancillary equipment associated with the tank systems (i.e., piping, pumps, valves, etc.) within a concrete secondary containment area. The concrete secondary containment area may also include a chemically resistant sealant. As shown on Figure IV.G.1.2, the Tanks will be located within the secondary containment area, which will have a containment volume of 108,577 gallons (see Table IV.G.1.1). This volume accounts for displacement of equipment within the secondary containment area, and that includes the volume of the tanks below the height of the dike wall, concrete pads that the tanks will be placed atop, plus an assumed additional 10% of the containment volume for miscellaneous pump bases, footers, piping, etc. The containment volume is sufficient to contain 110% of the volume of the Tank.

The base of the secondary containment will be sloped so that fluid flows to a trench sump. The tanks will be connected in series so that overflow in any one tank will be routed to the next tank or to the drainage sump. Precipitation, wash water, overflow, and/or potential leaks from the tanks will be removed from the sump by FBRL using various methods (pumps, vacuum truck, or equivalent) within 24 hours, or if FBRL demonstrates that it is not possible within 24-hrs, at the earliest practicable time.

4.0 OPERATION OF THE TANKS

4.1 General Operating Requirements

The Tanks will be operated in such a manner as to: i) not place waste or treatment reagents into the tank system that have the potential to rupture, leak, corrode, or otherwise cause failure of the Tanks, their ancillary equipment, or the containment system, ii) provide spill prevention and overfill prevention controls in case of potential leaks, and iii) follow

GSI Job No. 6731



applicable provisions in the event of a spill or release in order to protect human health and the environment.

Inspections

The Tanks will have sight glass level indicator and a high-level alarm, which will be subject to regular inspections. Readings from this indicator will be continuously monitored. All Tanks will be monitored routinely by operators at least once per day. The inspection schedule is provided in Table II.

Spill Response

Response activities will be conducted in the event of a release from the Tanks. In the event of a release from any one of the Tanks, FBRL will implement the following applicable procedures:

- *Flow Cessation*: Upon notification of a release, FBRL will immediately discontinue the flow of waste to the tank and into the secondary containment area.
- *Waste Removal*: Within 24 hours of release, FBRL will remove spilled waste from the secondary containment system to be either disposed of on-site or stored in another permitted tank. If removal of waste cannot be completed in 24 hours (i.e., because of force majeure), FBRL will complete waste removal at the earliest possible time to prevent harm to human health or the environment.
- *Notifications*: All notifications regarding a release to the environment will be completed in accordance with the TCEQ's spills and discharges regulations.
- *Return to Service*: If the integrity of any one of the Tanks was not damaged, the tank will be returned to service upon completion of necessary repairs, removal of waste, and adherence to applicable provisions. If the integrity of the tank was damaged, the tank will be repaired accordingly, and re-certified by a registered professional engineer in the State of Texas prior to returning to service in accordance with applicable provisions.



ATTACHMENT IV.G.1 ENGINEERING REPORT FOR TANKS TK-1300 THROUGH TK-1370

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas

TABLE

 Table IV.G.1.1
 Secondary Containment Calculation

GSI Job No. 6731 Prepared By: JSC Date: 7 December 2023 Checked By: JMM Date: 30 January 2024 Page 1 of 1



TABLE IV.G.1.1 CALCULATION OF SECONDARY CONTAINMENT VOLUME: MAIN TANK AREA Fort Bend Regional Landfill, LP, Needville, Texas

Industrial Nonhazardous Waste Permit Application

	Length	Width or Diameter	Area	Average Height	Volume	Conversion from cu ft	Volume	
Item	(ft)	(ft)	(sq ft)	(ft)	(cu ft)	to Gallons	(gallons)	Notes
Area and Volume within Dike Walls			11 - 22 - 22					
Containment Area	60.00	110.00	6,600	3.25	21,450	7.48	160,446	The volume for the secondary containment area was calculated based on dimensions specified in site layout plan.
				v	olume with	in Dike Walls	160,446	
Volume Displaced by Tanks and Equipment		and the second second						
Tanks								
TK-1300	-	15.00	177	2.25	398	7.48	2,974	Assumes each tank is placed atop of 1-ft thick concrete pad or base (see below).
TK-1310		15.00	177	2.25	398	7.48	2,974	Assumes each tank is placed atop of 1-ft thick concrete pad or base (see below).
TK-1320		15.00	177	2.25	398	7.48	2,974	Assumes each tank is placed atop of 1-ft thick concrete pad or base (see below).
FK-1330		15.00	177	2.25	398	7.48	2,974	Assumes each tank is placed atop of 1-ft thick concrete pad or base (see below).
ГК-1340	223	15.00	177	2.25	398	7.48	2,974	Assumes each tank is placed atop of 1-ft thick concrete pad or base (see below).
FK-1350		15.00	177	2.25	398	7.48	2.974	Assumes each tank is placed atop of 1-ft thick concrete pad or base (see below).
FK-1360	-	15.00	177	2.25	398	7.48	2,974	Assumes each tank is placed atop of 1-ft thick concrete pad or base (see below).
ГК-1370		15.00	177	2.25	398	7.48	2,974	Assumes each tank is placed atop of 1-ft thick concrete pad or base (see below).
Pads and Curbing	1	1 10100 1					alerri	
[K-1300 Pad	- 1	16.00	201	1.00	201	7.48	1,504	Assumes circular pad with 1 ft height,
K-1310 Pad	_	16.00	201	1.00	201	7.48	1,504	Assumes circular pad with 1 ft height.
'K-1320 Pad	- 1	16.00	201	1.00	201	7.48	1,504	Assumes circular pad with 1 ft height,
FK-1330 Pad		16.00	201	1.00	201	7.48	1,504	Assumes circular pad with 1 ft height.
FK-1340 Pad	-	16.00	201	1.00	201	7.48	1,504	Assumes circular pad with 1 ft height.
FK-1350 Pad	- 1	16.00	201	1.00	201	7.48	1,504	Assumes circular pad with 1 ft height.
FK-1360 Pad	- 1	16.00	201	1.00	201	7.48	1,504	Assumes circular pad with 1 ft height.
TK-1370 Pad	- 1	16.00	201	1.00	201	7.48	1.504	Assumes circular pad with 1 ft height.
Other Ancillary Equipment (estimated)	-	1 10.00 1	201	1 1.00	201	1 1.10	1,001	
Other ancillary equipment (piping, footers, pump bases)		1 - 1		1 201	-	1 - 1	16.045	Conservatively assumes 10% of the volume within the dike wall.
			Volume	Displaced P	v Tanke an	d Equipment	51.869	
Volume Available for Containment			*Onume	Displaced	y ranks an	a Equipment	\$1,003	
Volume within Dike Walls	T	r r		1	r	r i	160,446	Equal to volume within dike walls.
_ess Displacement Volume								Equal to volume displaced by tanks and equipment.
	I			Volume A	uailable for	Containment		Volume within dike walls minus volume displaced by tanks and equipment.
Volume to be Contained				Volume A		oomanmam	100,017	Ty order to available the state of the state
110% of Largest Tank Volume	T	r r		1	r	ľ i	46,200	All eight tanks in the secondary containment area will have an operational volume of
To not cargest Tank volume							40,200	42,000 gallons.
					Volume to	be Contained	46,200	
Net Volume Over/(Under)								
Volume Available for Containment							108,577	Equal to available volume for containment.
Volume to be Contained		i			-		46,200	Equal to volume to be contained.
					let Volume	Over/(Under)	62,377	Conclusion: Sufficient containment volume available.

Notes:

1. Numerical rounding accounts for small differences in certain totals.

JAMES M. McDADE luces 2/20/24

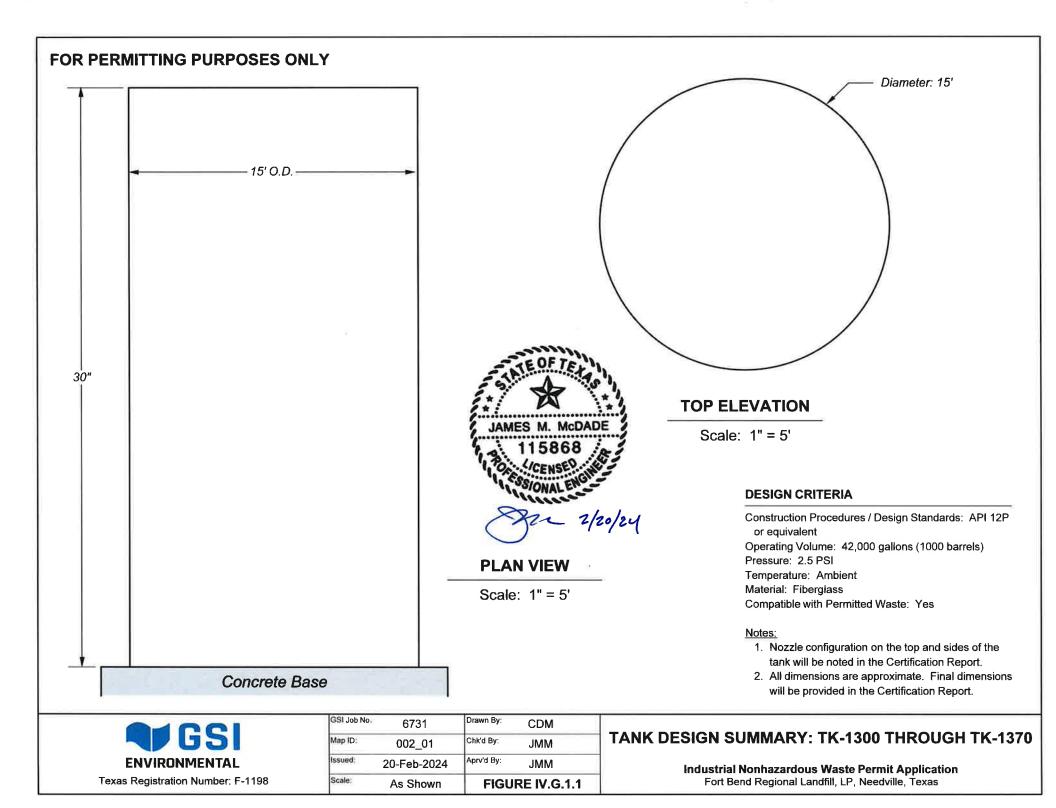


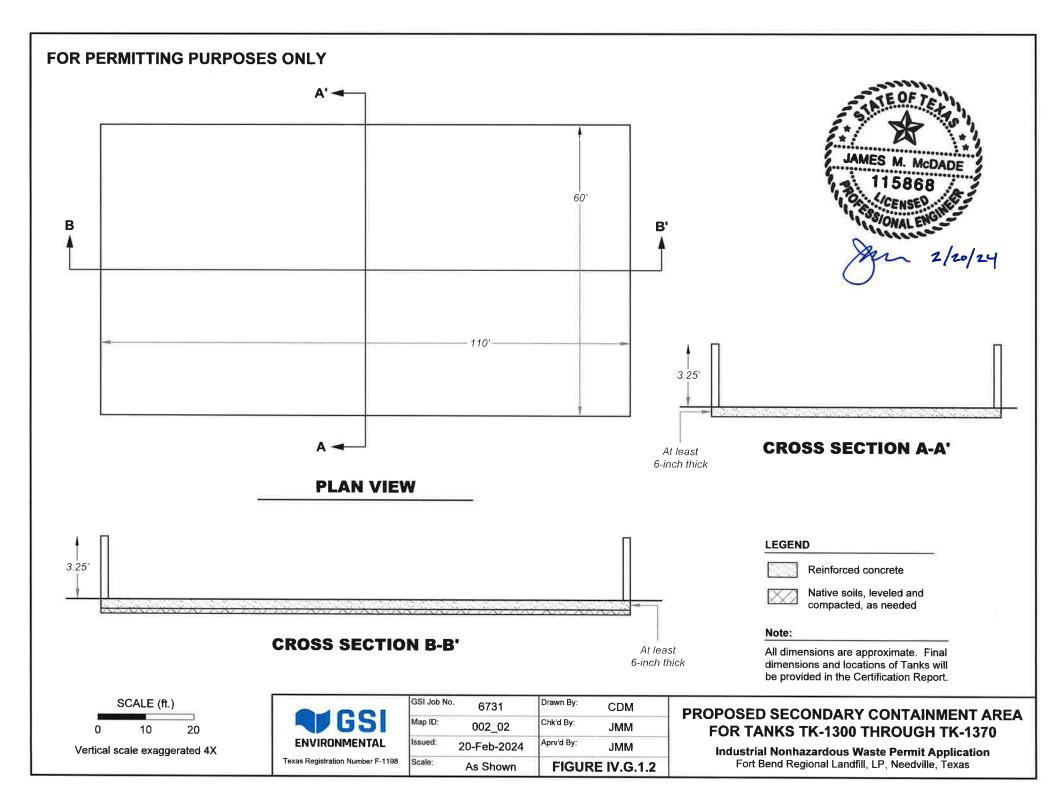
ATTACHMENT IV.G.1 ENGINEERING REPORT FOR TANKS TK-1300 THROUGH TK-1370

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas

FIGURES

Figure IV.G.1.1	Tank Design Summary: TK-1300 through TK-1370
Figure IV.G.1.2	Proposed Secondary Containment Area







Fort Bend Regional Landfill, LP Needville, Texas

ATTACHMENT IV.G.2

Engineering Report for Tank TK-1390



ATTACHMENT IV.G.2 ENGINEERING REPORT FOR TANK TK-1390

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas

I, James M. McDade, a registered professional engineer in the State of Texas, certify that the Engineering Report issued 20 February 2024 and revised 4 June 2024 for Tank TK-1390 (Notice of Registration Unit No. 9) located on the Fort Bend Regional Landfill in Needville, Texas, has been developed in general accordance with good engineering practices and requirements of 30 TAC 305.45(a)(8)(A).



mas

4 June 2024

James M. McDade, P.E. State of Texas Registration No. 115868 GSI Environmental Inc. Texas Registration No. F-1198

IV-i



1.0 INTRODUCTION

This section summarizes the engineering aspects of the proposed permitted nonhazardous waste tank TK-1390 (referred to as the Tank), located on the Fort Bend Regional Landfill (FBRL) facility. The location of the Tank is shown on the facility plans (see Attachment IV.C). General information on the tank, including capacity and wastes managed, is summarized on Table IV of this permit application. A figure showing a general diagram of the Tank is provided in Figure IV.G.2.1 and additional detailed design of the secondary containment area is provided on Figure IV.G.2.2.

1.1 Basis for the Engineering Report

The Tank will be located in the northern portion of the FBRL facility in Fort Bend County, near Needville, Texas (see Attachment IV.C). This engineering report has been prepared to certify that the design for the tank meets applicable standards as specified in 30 TAC 305.45(a)(8). After approval of this permit application, the tank will be installed and tested to certify conformance with this engineering report, applicable regulations, and hazardous waste permit provisions. A tank installation certification report will be prepared and submitted to TCEQ prior to placing the new Tank into service.

1.2 Wastes to be Managed in the Tank

Wastes 1 through 10 listed on Table III.B of this permit application will be managed in the Tanks (see Table III.B of this permit application). These waste streams will be co-mingled, neutralized, and chemically adjusted in the eight sediment and elementary neutralization unit tanks (TK-1300 through TK-1370), before they are pumped through a series of filter bag units into TK-1390. The Tank will provide a working volume for charging the injection booster pump (P-1120) to prevent cavitation of the injection pump (P-1130) during injection into the UIC.

2.0 DESIGN AND INSTALLATION OF THE TANK

2.1 Design of the Tank

The Tank is designed in accordance with API Specification 12P for Fiberglass Reinforced Plastic Tanks or an equivalent standard. The Tank will be constructed of fiberglass and oriented vertically with an approximate height of 25 ft and an approximate diameter of 12 ft, corresponding to a maximum design capacity of 21,000 gallons (see Figure IV.G.2.1). Although not required, the foundation, structural support, seams, and connections of the Tank have been designed and materials selected in accordance with 40 CFR 264.192 in order to: i) possess sufficient structural strength, ii) be compatible with the non-hazardous materials managed, and iii) prevent corrosion so that the Tanks will be protected from collapse, rupture, or failure. The Tanks will be installed within secondary containment in the north portion of the FBRL facility (see Attachment IV.C).

The foundation for the Tank will be constructed of reinforced concrete capable of maintaining the load of the Tanks when filled. The foundation of the Tank will be resistant to pressure gradients above and below the system and is capable of preventing failure

GSI Job No. 6731



due to settlement, compression, and/or uplifts. The Tank will not be in contact with soil or water, will be located aboveground, and will not be subject to frost heave.

2.2 Installation of the Tank

The Tank and ancillary equipment will be installed in accordance with standard engineering practices for quality control and testing. The Tanks will be handled in a manner to prevent damage during installation. Ancillary piping will be constructed of polybutylene, high-density polypropylene, or equivalent with welded, flanged connections, and tie-downs designed to accommodate possible expansion and contraction. Following installation of the Tanks, a professional engineer registered in the State of Texas will review information regarding installation of the tanks, ancillary equipment, and piping for evidence of potential weld breaks, punctures, scrapes, cracks, corrosion, or other structural damage, and an Installation Certification Report will be submitted to the TCEQ.

3.0 CONTAINMENT AREA

Potential releases to the environment will be prevented by locating the Tank and ancillary equipment associated with the tank systems (i.e., piping, pumps, valves, etc.) within a concrete secondary containment area. The concrete secondary containment area may also include a chemically resistant sealant. As shown on Figure IV.G.2.2, the Tank will be located within the secondary containment area, which will have a containment volume of 49,613 gallons (see Table IV.G.2.1). This volume accounts for displacement of equipment within the secondary containment area, and that includes the volume of the tank below the height of the dike wall, concrete pad that the tank will be placed atop, plus an assumed additional 10% of the containment volume for miscellaneous pump bases, footers, piping, etc. The containment volume is sufficient to contain 110% of the volume of the Tank.

The base of the secondary containment will be sloped so that fluid flows to a trench sump. The tanks will be connected in series so that overflow in any one tank will be routed to the next tank or to the drainage sump. Precipitation, wash water, overflow, and/or potential leaks from the tanks will be removed from the sump by FBRL using various methods (pumps, vacuum truck, or equivalent) within 24 hours, or if FBRL demonstrates that it is not possible within 24-hrs, at the earliest practicable time.

4.0 OPERATION OF THE TANK

4.1 General Operating Requirements

The Tank will be operated in such a manner as to: i) not place waste or treatment reagents into the tank system that have the potential to rupture, leak, corrode, or otherwise cause failure of the Tank, their ancillary equipment, or the containment system, ii) provide spill prevention and overfill prevention controls in case of potential leaks, and iii) follow applicable provisions in the event of a spill or release in order to protect human health and the environment.

2



Inspections

The Tanks will have sight glass level indicator and a high-level alarm, which will be subject to regular inspections. Readings from this indicator will be continuously monitored. All Tanks will be monitored routinely by operators at least once per day. The inspection schedule is provided in Table II.

Spill Response

Response activities will be conducted in the event of a release from the Tanks. In the event of a release from the Tank, FBRL will implement the following applicable procedures:

- *Flow Cessation*: Upon notification of a release, FBRL will immediately discontinue the flow of waste into the secondary containment area.
- *Waste Removal*: Within 24 hours of release, FBRL will remove spilled waste from the secondary containment system to be either disposed of on-site or stored in another permitted tank. If removal of waste cannot be completed in 24 hours (i.e., because of force majeure), FBRL will complete waste removal at the earliest possible time to prevent harm to human health or the environment.
- *Notifications*: All notifications regarding a release to the environment will be completed in accordance with the TCEQ's spills and discharges regulations.
- *Return to Service*: If the integrity of the Tank was not damaged, the Tank will be returned to service upon completion of necessary repairs, removal of waste, and adherence to applicable provisions. If the integrity of the tank was damaged, the tank will be repaired accordingly, and re-certified by a registered professional engineer in the State of Texas prior to returning to service in accordance with applicable provisions.



ATTACHMENT IV.G.2 ENGINEERING REPORT FOR TANK TK-1390

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas

TABLE

 Table IV.G.2.1
 Secondary Containment Calculation

GSI Job No. 6731 Prepared By: JSC Date: 7 December 2023 Checked By: JMM Date: 30 January 2024 Page 1 of 1



TABLE IV.G.2.1 CALCULATION OF SECONDARY CONTAINMENT VOLUME: PRE-INJECTION TANK AREA Fort Bend Regional Landfill, LP, Needville, Texas

- 62

Industrial Nonhazardous Waste Permit Application

item	Length (ft)	Width or Diameter (ft)	Area (sq ft)	Average Height (ft)	Volume (cu ft)	Conversion from cu ft to Gallons	Volume (gallons)	Notes
Area and Volume within Dike Walls								
Containment Area	40.00	60.00	2,400	3.25	7,800	7.48	58,344	The volume for the secondary containment area was calculated based on dimensions specified in site layout plan.
				v	olume with	in Dike Walls	58,344	
Volume Displaced by Tanks and Equipment								
Tanks	,, 			James and States				
TK-1390	-	12.00	113	2.25	254	7.48	1,903	Assumes the tank is placed atop of 1-ft thick concrete pad or base (see below).
Pads and Curbing								
DW-1 Pad		13.00	133	1.00	133	7.48	993	Assumes circular pad with 1 ft height.
Ancillary Equipment								
Other ancillary equipment (piping, footers, pump bases)		¥	<u></u>	<u> </u>			5,834	Conservatively assumes 10% of the volume within the dike wall.
			Volume	Displaced b	y Tanks an	d Equipment	8,731	
Volume Available for Containment								
Volume within Dike Walls							58,344	Equal to volume within dike walls.
Less Displacement Volume							8,731	Equal to volume displaced by tanks and equipment.
				Volume Av	vailable for	Containment	49,613	Volume within dike walls minus volume displaced by tanks and equipment.
Volume to be Contained								
110% of Largest Tank Volume							23,100	Tank TK-1390 is the only tank in the pre-injection secondary containment area, and will have an operational volume of 21,000 gallons.
					Volume to	be Contained	23,100	a construction of the second se
Net Volume Over/(Under)								
Volume Available for Containment							49,613	Equal to available volume for containment
Volume to be Contained				I			23,100	Equal to volume to be contained.
					let Volume	Over/(Under)	26,513	Conclusion: Sufficient containment volume available.

Notes:

1. Numerical rounding accounts for small differences in certain totals.

.................. JAMES M. MCDADE - 2/20/24

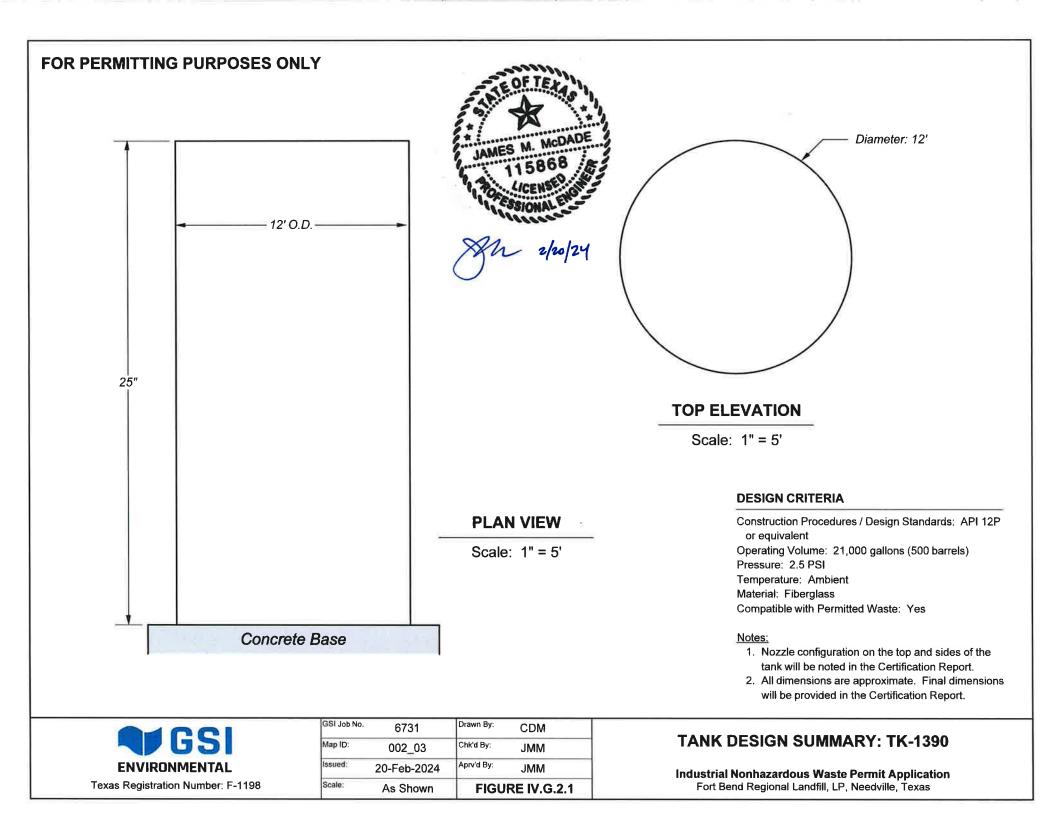


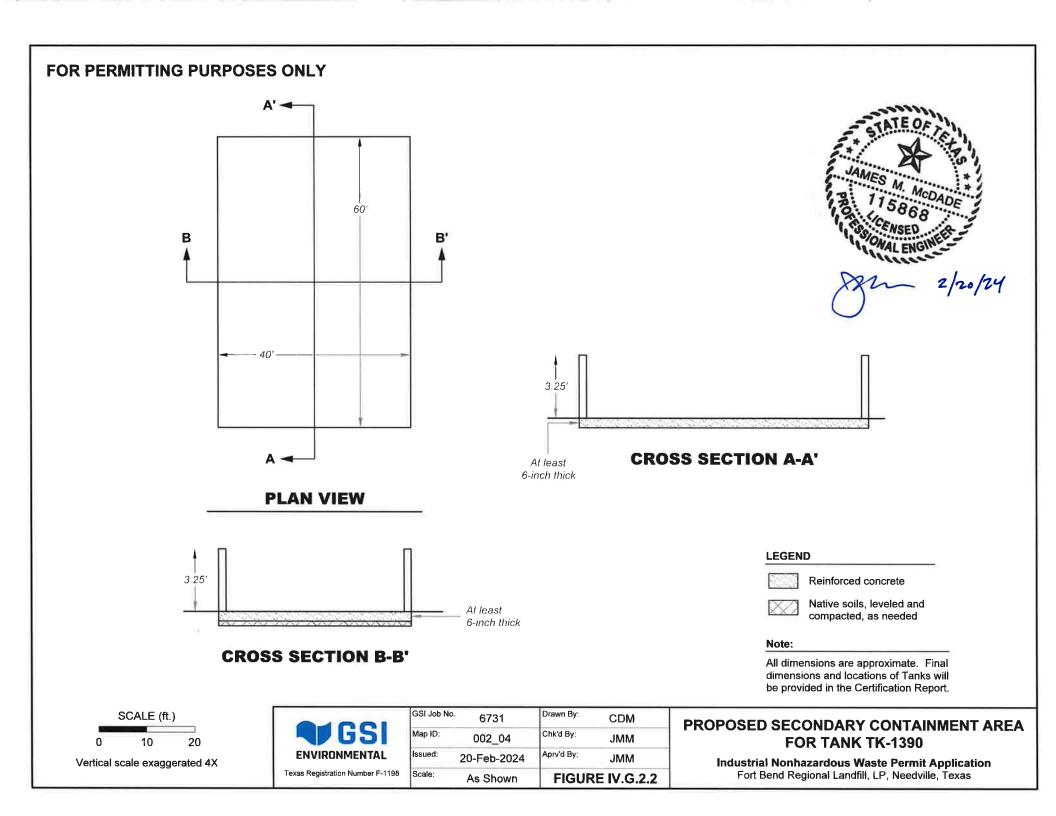
ATTACHMENT IV.G.2 ENGINEERING REPORT FOR TANK TK-1390

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas

FIGURES

Figure IV.G.2.1	Tank Design Summary: TK-1390
Figure IV.G.2.2	Proposed Secondary Containment Area







INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

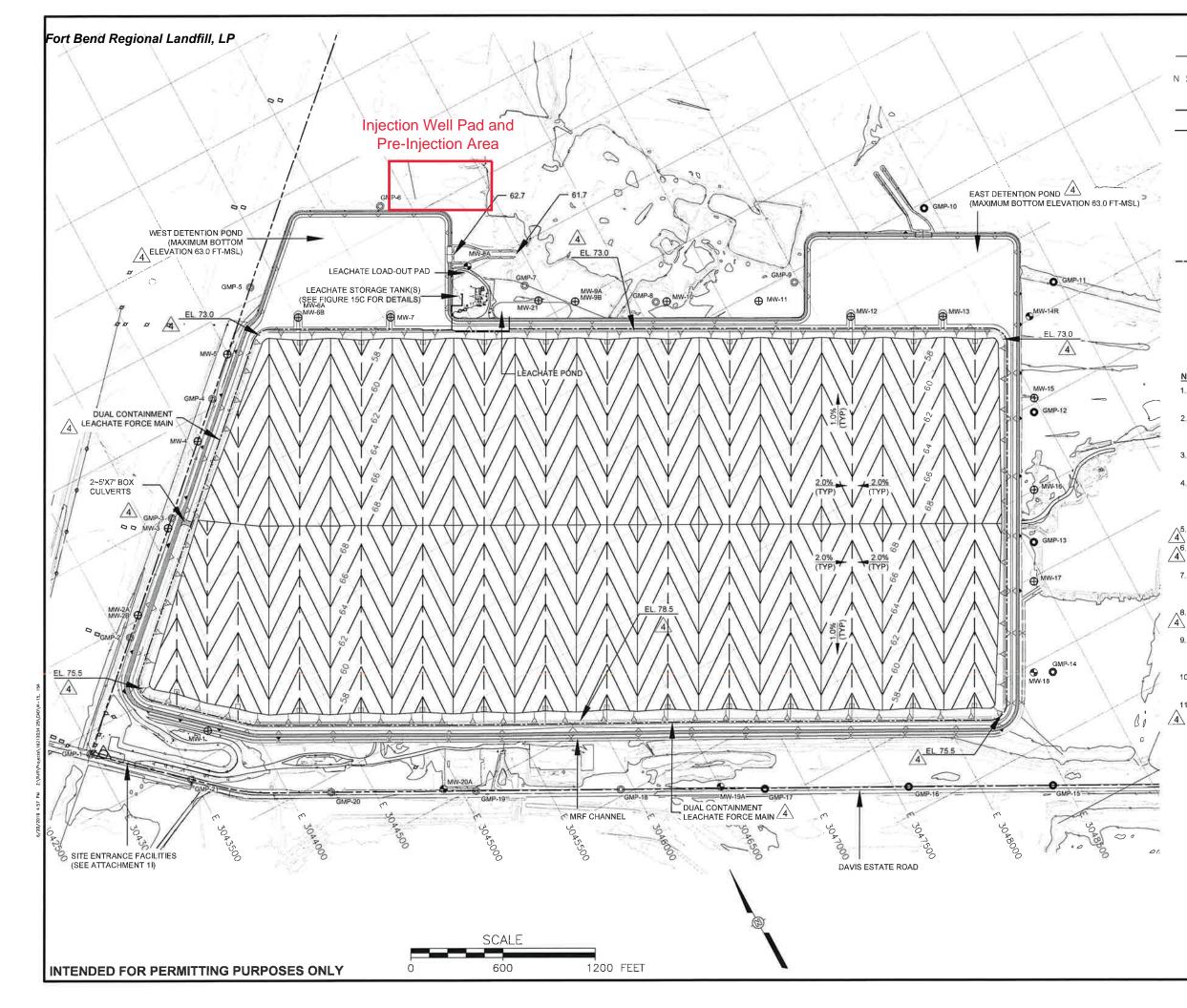
Fort Bend Regional Landfill, LP

Needville, Texas

ATTACHMENTS – SECTION VI

Attachment VI.A Groundwater Monitoring System

Attachment VI.E FEMA Flood Hazard Information Map



			m	Ш.
	LEGEND	Attachment VI.A		
65	CURRENT CON	TOUR		
N 582000	STATE PLANE O GRID-LINE	COORDINATE SYSTEM		
	PERMIT BOUND (SEE NOTES 27	No. 2017 March 1997	DESCRIPTION	
64	BASE GRADE C	ONTOUR WITH ELEVATION 4	DESC	
•	PROPOSED GR WELL (SEE NOT	OUNDWATER MONITORING		
0	PROPOSED GA NOTE 10)	S MONITORING PROBE (SEE	μ	
\oplus	EXISTING GROU	JNDWATER WELL	DAI	
O	EXISTING GAS	MONITORING PROBE	REV	<
A	SITE BENCHMA	RK (SEE NOTE 4)	L	
	DUAL CONTAIN	MENT LEACHATE FORCE MAIN		

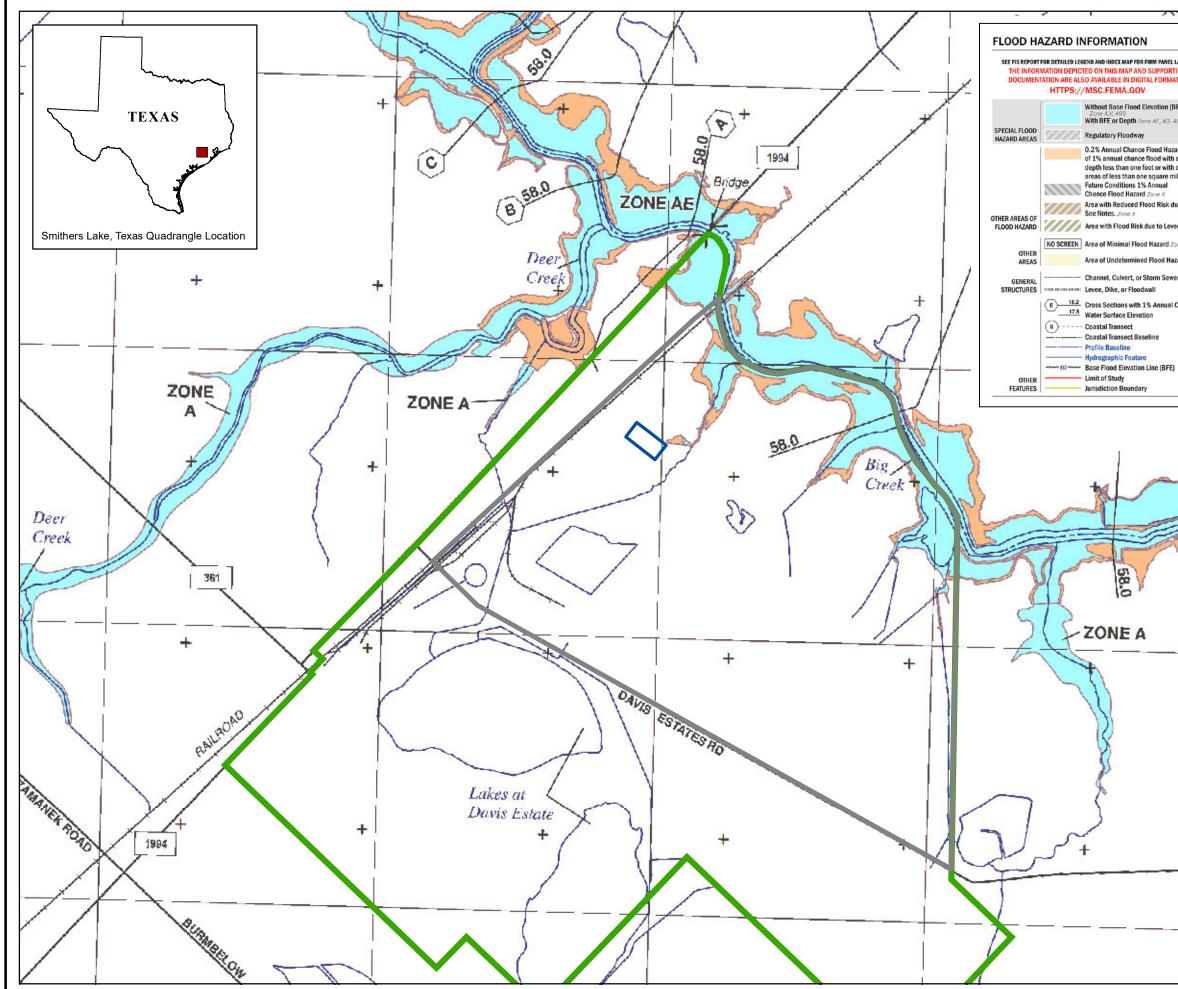
NOTES

- CURRENT CONTOURS FROM AERIAL SURVEY PERFORMED BY TechMap INC., JANUARY 23, 2018.
- PROPERTY LINE AND EASEMENT INFORMATION PROVIDED BY CHARLIE KALKOMEY SURVEYING, INC., 11-13-96 AND 1-17-97.
- 3. PROPERTY BOUNDARY AND PERMIT BOUNDARY COINCIDE UNLESS OTHERWISE INDICATED.
- SITE BENCH MARK INFORMATION: NORTHING - 582831.62
 EASTING - 3043059.34
 ELEVATION - 70.55 FT-MSL
- BASE GRADE SIDE SLOPES ARE 3H 1V
- MINIMUM TOP OF BASE GRADE AT LCS SUMPS IS 52.0 FT. MSL
- 7. LINER AND LEACHATE COLLECTION SYSTEM DETAILS ARE PROVIDED IN ATTACHMENT 6C-LINER, LEACHATE COLLECTION, AND FINAL COVER SYSTEM DETAILS.
- 8. SEQUENCE OF SITE DEVELOPMENT IS PROVIDED ON ATTACHMENTS 1B THROUGH 1G.
- 9. PROPOSED GROUNDWATER MONITORING WELLS TO BE CONSTRUCTED IN ACCORDANCE WITH PART III, ATTACHMENT 5.
- 10 PROPOSED GAS PROBES TO BE CONSTRUCTED IN ACCORDANCE WITH PART III, ATTACHMENT 14.
- 11. CONTOURS SHOWN REPRESENT THE TOP OF BASE GRADES (I.E. ELEVATION OF LINER GEOSYNTHETICS), ADDITIONAL EXCAVATION WILL BE REQUIRED FOR CLAY LINER INSTALLATION FOR MSW SECTORS THAT WILL HAVE LEACHATE RECIRCULATION AND/OR CLASS 1 WASTE.



For June 2019 Revisions Only





ж. – – л	
LAYOUT ING IT AT	
IFE) NH, VE, AR ard, Areas average drainage	
ile Zone X	LEGEND
ue to Levee	
e Zone D	UIC Waste Management Municipal Solid Waste Landfill
zard Zone D	Fort Bend Regional Landfill Property
er	Boundary
Chance	
-	
2	
2	
NY I	
40	Notes
	Background Imagery: FEMA Flood Insurance Rate Map, Fort Bend County, Texas; Map No. 48157C0425M, Revised January 29, 2021.
	FeetProjected Coordinate SystemWGS 1984 Web Mercator01,0002,000
	C ENVIRONMENTAL
	FEMA FLOOD HAZARD INFORMATIION MAP
	Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP Needville, Texas
	GSI Job No. 6731 Drawn By: CDM
	Issued: 20-Feb-2024 Chk'd By: JMM
-	Map ID: 001_05 Appv'd By: JMM
	ATTACHMENT VI.E



INDUSTRIAL NONHAZARDOUS WASTE PERMIT APPLICATION

Fort Bend Regional Landfill, LP

Needville, Texas

ATTACHMENTS – SECTION VII

Attachment VII.A Closure Plan

Attachment VII.B Closure Cost Quotes



ATTACHMENT VII.A CLOSURE PLAN

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas



ATTACHMENT VII.A CLOSURE PLAN

Industrial Nonhazardous Waste Permit Application Fort Bend Regional Landfill, LP, Needville, Texas

TABLE OF CONTENTS

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2.0	GENERAL REQUIREMENTS	.1
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3.0	CLOSURE PROCEDURES	.2
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4.0	ATTAINMENT OF CLOSURE STANDARDS	.3
5.0	CLOSURE COST ESTIMATES	.4
	5.1 Basis for Closure Cost Estimates5.2 Assumptions	.4 .4
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6.0	REFERENCES	.4



1.0 INTRODUCTION

This plan addresses the closure of the nonhazardous waste management unit (i.e., Tanks TK-1300, TK-1310, TK-1320, TK-1330, TK-1340, TK-1350, TK-1360, TK-1370, and TK-1380) at the Fort Bend Regional Landfill (FBRL) facility. Closure refers to the process of permanently removing from service a waste management unit (i.e., individual tank) or an entire facility (i.e., the pre-injection unit consisting of all four tanks). This plan has been developed to comply with State requirements (30 TAC 335.8 and 30 TAC 350) requirements, as well as applicable technical guidance.

Units subject to this closure plan include the four tanks associated with the UIC deep well preinjection unit (see Table VII.A). General closure standards applicable to all units are described in Section 2.0 of this closure plan. Procedures specific to each type of unit are described in Section 3.0.

2.0 GENERAL REQUIREMENTS

2.1 **Closure Performance Standards**

By implementing the closure procedures described below, individual waste management units or the entire facility will be closed in a manner that minimizes the need for care after closure and ensures that the unit(s) will not pose a future threat to human health and the environment.

To achieve this performance standard, closure will involve removal and disposal of wastes and waste residues from each unit, decontamination of the unit and associated equipment, and verification of decontamination. Attainment of closure standards will be documented in reports discussed further below.

2.2 Partial and Final Closures

Circumstances which may prompt closure of an individual waste management unit (i.e., partial closures) may include the following: i) modification to facility operations; or ii) the end of the useful service life of the unit.

Final facility closure will be implemented after all individual nonhazardous waste management units are taken out of service. Although it is anticipated that individual unit closures will occur periodically throughout the operating life of the facility, the closure cost estimate (Section 5.0) has been based on the assumption that the maximum inventory of nonhazardous wastes is present at the time of facility closure.

2.3 Schedule

Operation and subsequent closure of individual permitted units will depend upon actual FBRL waste management needs and requirements; therefore, no date has been set for the closures. An estimated schedule prepared in accordance with the time limits specified in TCEQ guidance and general timelines outlined in 40 CFR 264 is provided below. Note that this unit is not a hazardous waste management unit; therefore, 40 CFR 264 was only used as a general guideline



for closure timelines. This schedule will be followed for unit closures as well as final facility closure.

Time from Final Waste Receipt	Closure Task Description		
10 to 45 days prior to final waste receipt and initiation of closure activities	 Provide written notice to TCEQ Region and Central Office of intent to close unit: Unit Closure: Provide notice at least 10 days prior to closure activities [TCEQ, 2009a]. A schedule for confirmation sampling will either be included with the notice or will be submitted separately. Final Facility Closure: Provide notice at least 45 days prior to final waste receipt [40 CFR 264.112(d)]. 		
0 days	Discontinue receipt of waste and commence closure.		
90 days	Remove and dispose of waste at authorized on-site or off-site facility [40 CFR 264.113(a)].		
120 days	Complete decontamination process.		
180 days	Complete closure activities [40 CFR 264.113(b)].		
240 days	Submit closure certification to the TCEQ. Closure certification reports will be submitted for final facility closure [40 CFR 264.115] as well as for individual unit closures.		

Although not anticipated, the closure process may require longer than the 90-day period listed above for waste inventory removal or the 180-day period prescribed for completion of closure activities. If a longer period is required, an extension request will be submitted to the TCEQ.

3.0 CLOSURE PROCEDURES

3.1 Tanks

Tank closures will be conducted in accordance with the Closure and Post-Closure Cost Estimates Technical Guideline No. 10 and using 40 CFR 264.197 as a general guideline. To ensure that closures are completed in accordance with the closure plan, the activities will be supervised by FBRL and reviewed by an independent professional engineer registered in the State of Texas.

Specific steps include the following:

- *Notification:* Notification of the intent to close the unit will be submitted to the TCEQ.
- Waste Removal and Disposal: At the time of closure, receipt of nonhazardous waste will be discontinued. The contents of the tank(s) and associated piping will be removed and the system flushed of remaining waste materials. Waste fluids remaining in the tanks and appurtenances will be removed for disposal either by: i) pumping to a permitted on-site injection well, or ii) transport to a permitted off-site disposal facility. Any waste solids collected in the tank(s) will be removed. These solids may be: i) treated on-site, if needed, and disposed in the on-site municipal solid waste landfill, or ii) sent off-site for treatment, if necessary, and authorized disposal.



 Decontamination: On the basis of operating plans at the time of closure, equipment for the tank(s) will be managed in one of the following ways: i) decontamination and retention in service; ii) decontamination, demolition, and salvage; or iii) demolition and disposal. Various components of the tank system may be managed in different ways (e.g., some items may be salvaged and others disposed). The tank(s), piping, and appurtenances will be decontaminated by steam cleaning, pressure washing, or other appropriate methods. Pumps, piping, and other mechanical equipment will be flushed and salvaged or left in place. The decontamination process will typically involve a triple-rinse of the tanks and appurtenances using water or another solvent, if necessary.

Equipment used during closure operations will be decontaminated by pressure washing, steam cleaning, or other appropriate methods.

The rinsate generated during the decontamination process may be disposed in a permitted on-site injection well. Wastes or waste residues that cannot be managed on-site will be disposed at an authorized off-site facility. Wastes (e.g., solids) to be land disposed will be treated as necessary.

- Verification of Decontamination: At the end of the decontamination process, rinsate samples will be collected. The samples will be analyzed and results evaluated as described in Section 4.0 below. The decontamination process will be repeated as needed until the verification samples meet regulatory requirements. As noted in Section 2.3 (Schedule), the TCEQ Regional Office will be provided initial notice of the closure activities including verification sampling.
- *Inspection:* After completion of the tank cleaning process, the tank area will be visually inspected for evidence of contamination or cracks or gaps that could constitute pathways for release of hazardous waste or waste constituents to the environment. Facility operating records will be reviewed to determine whether releases occurred during the operating life of the unit. Evidence of a potential release will consist of records in the facility operating record or other visual evidence that a spill has occurred and has not been cleaned up in accordance with applicable regulatory or permit requirements. If evidence of a potential release is identified, FBRL will conduct follow-up actions in accordance with 30 TAC 327 or 30 TAC 350, as appropriate.
- *Closure Certification:* A report describing the closure activities will be prepared and submitted to the TCEQ in accordance with the schedule in Section 2.3.

4.0 ATTAINMENT OF CLOSURE STANDARDS

Samples, such as rinsate samples, will be collected to verify whether the tank area has been adequately decontaminated during the closure process. Because of the potentially broad spectrum of wastes managed over the lifetime of a unit at FBRL, indicator parameters have been selected to evaluate the adequacy of decontamination. Therefore, rinsate samples will be analyzed for the following: i) pH (if relevant to the material stored); ii) RCRA metals (if relevant to the material stored); iii) semivolatile organics (if relevant to the material stored); iv) volatile organics (if relevant to the material stored); and v) Total Petroleum Hydrocarbons (TPH) by Method TX1005. TPH by Method TX1005 will be used to provide concentrations of total hydrocarbon boiling point ranges, typically between C6 and C28. These ranges correspond to



TCEQ-calculated, risk-based criteria which will be used to determine whether the closure standard has been met.

Decontamination will be considered complete when no visible evidence of contamination is observed and when the results from verification sampling and analysis indicate that concentrations of applicable chemicals of concern (COCs) are below Remedy Standard A Protective Concentration Levels (PCLs) as specified in the Texas Risk Reduction Program rules (TRRP; 30 TAC 350). Institutional controls such as deed recordation will be implemented as required under TRRP in the event that concentrations of COCs are evaluated with respect to Standard A commercial/industrial PCLs, rather than residential PCLs.

5.0 CLOSURE COST ESTIMATES

5.1 Basis for Closure Cost Estimates

For the purpose of preparing financial assurance documentation, cost estimates have been prepared for tanks on the FBRL facility (see Tables VII.A through VII.C). Third-party unit rates for labor and equipment, transportation, waste disposal, laboratory analyses, and certification are provided on Table VII.B. Closure costs for all units are summarized on Table VII.C. Calculations and assumptions for the cost estimates are provided below.

5.2 Assumptions

In accordance with TCEQ guidance (e.g., TCEQ, 2011a and 2017), closure costs have been estimated based on a scenario of facility abandonment at full permitted capacity (i.e., a scenario that would make closure the most expensive). This scenario assumes that no operable on-site equipment is available, all wastes are shipped and disposed off-site, and that the closure activities are conducted by a third party. Unit rates for closure activities, including labor and equipment for waste removal, transport, and disposal, have been obtained from contractors for such work (see Table VII.B and Attachment VII.B). Conservative assumptions used for preparing the closure cost estimates are as follows.

5.2.1 Tanks

For closure cost estimates, tanks have been assumed to be storing the maximum permitted volume of waste at the time of closure. Of the waste volume in the tank, 98% is assumed to be liquid and 2% is assumed to be sludge; however, the sludge volume is assumed to be no greater than 500 gallons. The volume of decontamination rinsate is equal to 5% of the tank volume. Liquid tank contents and decontamination rinsate will be transported off-site for disposal in a permitted injection well and sludge will be transported off-site for stabilization and disposal in a permitted landfill. Any other assumptions used for the calculation of closure costs are stated in the notes under Table VII.B.

6.0 **REFERENCES**

TCEQ, 2009a, TRRP Compatibility with RCRA, RG-366/TRRP-03, Revised March 2009.



TCEQ, 2011a, Closure of Waste-Management Units Subject to TRRP, RG-366/TRRP-2A, Remediation Division, July 2011.

TCEQ, 2011b, TCEQ Part B Application Form TCEQ-00376, Revised 18 August 2011.

TCEQ, 2017, Draft Technical Guideline No. 10, Topic: Closure and Post-Closure Cost Estimates, Issued 12 October 1984, Revised 7 December 2017.



ATTACHMENT VII.B: CLOSURE COST CONTRACTOR QUOTES

Fort Bend Regional Landfill, LP

Needville, Texas

ATTACHMENTS

Attachment 1 IKON Tank Cleaning Quote



October 27, 2023

Mr. John Cook GSI Environmental Inc. 2211 Norfolk, Suite 1000 Houston, Texas 77098

Subject: Proposal for Tank Liquids / Sludge Cleaning w/ T&D Needville, Texas

Dear Mr. Cook,

IKON Environmental Solutions, LP (IKON) is pleased to provide this for the removal of the Liquids and Cleaning of Sludges from the following tanks:

- 21,000 gallon Frac Tank.
- 10,000 gallon AST Tank w/ Manway.
- 10,000 gallon AST Tank w/ Manway.
- 10,000 gallon AST Tank w/ Manway.

Tanks are reported to have access manways.

IKON will remove the liquids from the tanks by Vacuum Truck 130 bbl truck. IKON will perform confined entrance into each of the above listed tanks. Remove sludges by Drum Vac and place into 55-gal. Steel Drums.

Client (GSI) shall perform any/all analytical sampling needed for waste characterization.

Notes and Assumptions:

IKON has made the following assumptions in preparation of the above pricing:

- All Liquids & Sludges are classified as Non-Hazardous.
- **Sales/Use Tax of 8.25% was assessed on all work unless an exemption certificate, resale certificate, direct pay permit, or other applicable certificate(s) are provided by the consultant, general contractor, or end user to IKON Environmental Solutions, LP.
- All disposal pricing is subject to a review of analytical data and final acceptance by the targeted disposal facility. Analytical performed by Client (GSI) – Min. TPH, VOC's & Metals TX 11.
- Pricing is valid for 60 days and subject to the execution of a mutually acceptable agreement and payment terms.
- Work hours are Monday-Friday; 10 hours per day.
- No Hazardous waste has been included and is not anticipated to be encountered. If hazardous waste is encountered or requires disposal, this will be an additional cost to the project.
- Water is available on site for our use.
- Payment Terms Net 45 days.



Pricing Table

Description	Qty	Unit	Rate	Total
Mobilization / Demobilization - Tank Cleaning Crew & Equipment	1	LS	\$880.00	\$880.00
Vacuum truck - 5,000-gallon (130 bbl) loads - 6 hrs per load	60	Hr	\$145.00	\$8,700.00
Disposal of non-hazardous liquids, assuming (\$500/min. charge)	50000	Gal	\$0.72	\$36,000.00
Vacuum truck washout (no heel)	1	Ea.	\$680.00	\$680.00
Tank Cleaning Crew - SLUDGES - Drum Vac / Confined Space Entry	5	Day	\$3,200.00	\$16,000.00
Drums (4 per cy + Washout Liquids - use ~6 drums per sludge CY)	30	Ea.	\$95.00	\$2,850.00
Disposal of non-hazardous SLUDGES (Class 1) - WCA Fort Bend LF	30	Dm	\$112.00	\$3,360.00
Transportation Drums	4	Hr	\$135.00	\$540.00
	Estimated Subtotal =			\$69,010.00
		\$5,693.33		
	Total Anticipated = \$74,70			

If you have any questions, please call me at 281-766-4566.

Sincerely,

John Savage

Project Manager



ATTACHMENT VII.B: CLOSURE COST CONTRACTOR QUOTES

Fort Bend Regional Landfill, LP

Needville, Texas

ATTACHMENTS

Attachment 2 CIMA Tank and Secondary Cleaning and Dismantling Quote



Non Hazardous Waste Tank Closures

CUSTOMER INFORMATION Name: GSI Environmental

Address: 2211 Norfolk, Ste 1000

City: Houston, Texas 77098

Contact: John Cook, EIT

Budgetary Proposal

Estimate #: 1247-1123-005

SITE LOCATION Name: GSI Environmental Address: TBD City: Needville, Texas Contact: John Cook, EIT

CIMA Services, L.P. (CIMA) is pleased to present the following pricing for the closure/cleaning of miscellaneous tanks at the Needville site. Our scope of work includes mobilization and demobilization of personnel and equipment to the job site to perform the work. CIMA personnel will obtain work permits and perform tailgate safety meetings daily prior to starting any work. The following scope summary and pricing has been prepared for you review:

Scope of Work:

- Cleaning out the tanks (3 10,000-gallon cylindrical tanks and 1 21,000-gallon Frac tank)
 - Vacuum Truck w/Operator
 - Assumes removal and disposal of up to 50,000 Gallons of Liquid waste as Class I Non-Hazardous
- Transport and disposal of tank remnants.
 - Assumes removal of up to 4 cubic yards of sludge/bottoms.
 - Cylindrical tanks (3 CY total) would be agitated/water washed into vacuum truck.
 - This is based on the cylindrical tanks not having a man way hatch for entry.
 - Frac Tanks will require entry and using an air mover and vacuum box.
 - Will be washed using on site water source after sludge removal.
 - Pricing is based on Class I Non-Hazardous disposal.
- Dismantling tanks

0

- Assume this is to disconnect hoses from tanks.
- Excludes any washing of hoses.
- Pressure wash of the secondary containment (80' x 40' concrete)
 - Assume using on site water source and this waste can go in vacuum truck.
 - Includes collection, transport, and disposal of wash water (1200 gallons)

Pricing/Duration: <u>* Duration – 5 - 10hr. Days</u>

DESCRIPTION	UNIT	QTY	RATE	TOTAL
Mob/Demob	Each	1	\$7,900.00	\$7,900.00
Labor and Equipment - Cleaning Crew	Daily	5	\$4,100.00	\$20,500.00
Liquid Transportation (Includes Truck Washout)	Load	11	\$1,800.00	\$19,800.00
Sludge Vacuum Box Transportation (Includes Washout) to WMCP Alvin, Texas	Loads	1	\$7,500.00	\$7,500.00
Disposal of Liquids as Class I Non-Hazardous	Load	55000	\$0.65	\$35,750.00
Air Mover	Daily	2	\$4,500.00	\$9,000.00
Supplied Air	Daily	2	\$1,100.00	\$2,200.00
Date: 11/6/2023			Subtotal	\$102,650.00
Sales Rep: AC	Repair Tax 8.25%			\$8,468.63
Prepared by: AC/CG			TOTAL	\$111,118.63

ASSUMPTIONS/CLARIFICATIONS:

- 1. Schedule includes 5/10 work week assume work permit will be issued by 7:00 AM.
- 2. Not responsible for delays due to weather.
- 3. CIMA will have continuous access to the site.
- 4. Pricing excludes any site training that may be required.

Should you have any questions, please contact Adam Cortez @ 832-623-1725



ATTACHMENT VII.B: CLOSURE COST CONTRACTOR QUOTES

Fort Bend Regional Landfill, LP

Needville, Texas

ATTACHMENTS

Attachment 3 RL Doskocil Tank and Liner Demolition Quote

RL Doskocil, Inc. PO Box 505 Crosby, Texas 77532 October 5, 2023 713-551-6369 Cell 281-426-4777 Office 281-426-8339 FAX



Proposal

PROJECT: DATE: ATTN: SECTIONS BID: RL DOSKOCIL JOB #: SCOPE: GFL Fort Bend Regional Tank Demo October 5, 2023 Joe Spinks/Jennifer Glowacki Site Maintenance 169**-13178**

RL Doskocil Inc. will provide all labor, equipment, materials, fuel, and supervision necessary to demolish two waste water tanks at the Fort Bend Regional Landfill.

- RL Doskocil Inc. will disassemble and demolish two metal waste water tanks. The tanks will be transported to the active face.
- All piping, liner material and tank rings will be removed and transported to the active face. Inlet piping to the tanks will be capped above ground level. The rerouting of the inlet piping will be a separate bid item.
- Existing fencing will be temporarily removed for equipment access and replaced upon project completion.
- 1,300 cu. yds. of fill dirt will be placed in the containment in 6" compacted lifts to existing ground level.

Equipment:

D-5 Dozer 1 week = \$3,178.50320 Excavator 2 weeks = \$7,441.20Pad Foot Roller 1 week = \$3,042.00(2) Job Trucks 10 days = \$3,250.00Job Trailer 1 week = \$487.50Heavy Trucking x 4 = \$5,200.00Dump Truck 1 week = \$5,850.002 Cut Off Saws 1 week = \$1,235.00Equipment Total = \$29,684.20

<u>Labor:</u> Project Manager 2 weeks = \$7,989.28 (4) Operators 2 weeks = \$18,645.12 Per Diem x 32 = \$4,992.00 Labor Total = <u>\$31,626.40</u>

<u>Materials:</u> Cutting Wheels = \$703.63 Fuel 600 gallons = \$3,510.00 Material Total = \$4,213.63

Project total = <u>\$65,524.23</u>

ASSUMPTIONS:

- This project is anticipated to be complete in 2 weeks.
- With your approval this work can be scheduled for 1 week after approval.
- This proposal makes no allowances for any work beyond the scope.
- <u>Delays of any nature with the exception of weather beyond the control of RL Doskocil Inc. will be</u> <u>billed on a T&M basis as per rate sheet to be provided.</u>

OUT OF SCOPE:

No horizontal engineering, no road bores, no SWPP maintenance, no SWPPP, no traffic control, not responsible for unknown utilities not marked by owner or one call, no permits included.

Sales and use tax are not included. If this project is deemed taxable; sales and use tax must be added or direct pay permit issued to RL DOSKOCIL, INC.

Submitted by: RL Doskocil, INC Billy Johnston Accepted by: _____

Title: ______ Date: _____



ATTACHMENT VII.B: CLOSURE COST CONTRACTOR QUOTES

Fort Bend Regional Landfill, LP

Needville, Texas

ATTACHMENTS

Attachment 4 RS Means Pressure Washing Cost Estimate

GFL

Needville, Texas, 77461

14115 Davis Estates Road

GFL Secondary Containment Decon Estima

Travis McGuire

Year 2023 Quarter 3

Unit Detail Report

Prepared By: Travis McGuire

LineNumber	Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
Division 04 Masonry					
040120520300	Cleaning masonry, heavy restoration, light soil, by chemical, high pressure wash, brush and rinse, excludes scaffolding	7,150.00	S.F.	\$0.99	\$7,078.50
Division 04 Masonry Subtotal					\$7,078.50
Subtotal					\$7,078.50
General Contractor's Markup on Subs				0.00%	\$0.00
Subtotal					\$7,078.50
General Conditions				0.00%	\$0.00
Subtotal					\$7,078.50
General Contractor's Overhead and Prof	it			0.00%	\$0.00
Grand Total					\$7,078.50

Date: 11/27/2023



ATTACHMENT VII.B: CLOSURE COST CONTRACTOR QUOTES

Fort Bend Regional Landfill, LP

Needville, Texas

ATTACHMENTS

Attachment 5 Pace Labs Rinsate Analysis Quote



Quote	Prepared for:
-------	---------------

GSI Environmental 2211 Norfolk Street, Suite 1000 Houston, TX 77098 USA John Cook 4342585456

Pace® Contact Information

Account Executive Shannon Tyrell-Swadis Pace Project Manager Lori Vahrenkamp

(361) 572-8224

Project Information

Quote Name	00148814 - GSI-Rinsate waters/Permit	Created Date	10/30/2023
	Application closure - 10/30/2023	Expiration Date	12/31/2023
Quote Number	00148814	Report Level	TRRP reporting
Standard TAT:	7 Business Days	EDD Requirements	: Routine
Project Location	TX	Certification	TCEQ
		Requirements	

Minimum Laboratory Fee

\$250

Quote Details

Quantity	Method	Matrix	Product	Line Item Description	Sales Price	Sub-Total	Total-Price
4.00	EPA 9040	Water Only	pH/ Corrosivity (water)		\$20.00	\$80.00	\$80.00
4.00	EPA 8260	Water Only	Volatile Organic Compounds (VOCs) (water)		\$90.00	\$360.00	\$360.00
4.00	EPA 8270	Water Only	Semi-Volatile Organics (full list SVOCs) (water)		\$180.00	\$720.00	\$720.00
4.00	TCEQ 1005 / TX 1005	Water Only	Texas 1005 (TPH)		\$50.00	\$200.00	\$200.00
4.00	EPA 6010/7470	Water Only	RCRA 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) (water)		\$92.00	\$368.00	\$368.00
4.00			Sample Disposal	Per sample	\$6.00	\$24.00	\$24.00
1.00	Pace SOP		Metals Prep Charge	Per batch	\$15.00	\$15.00	\$15.00
1.00			Environmental Impact Fee (Per Invoice)		\$25.00	\$25.00	\$25.00



Additional Pricing Considerations:

If you have specific questions about any conditions noted below, please contact your Pace Analytical Representative.

•Unless accepted, signed and returned, or otherwise noted above, proposal expires 60 days from Created Date above.

Quoted prices include standard Pace Analytical QA/QC, reporting limits, compound lists and standard report format unless noted otherwise.
 If project specific MS/MSD samples are submitted, they may be billable.

• Volatile soils need to be frozen within 48 hours of collection. To facilitate this, they should be submitted to the lab within 40 hours of collection.

- TAT (Turn Around Time) is in working days unless otherwise specified above.
- To ensure requested TAT is available, please coordinate with your Pace Analytical representative at time of sample submittal.
- Any deviation from the above quoted scope of work, including sample arrival date and volume, may result in adjustment of prices.
- Please include Quote Number on Chain-of-custody to ensure proper billing.
- Pricing includes standard delivery of bottle/sample kits and coolers.
- Charges will apply for non-standard shipping and for projects where shipping exceeds 10% of the total analytical costs of the shipment.

• All air and air-related equipment charges (i.e. rental fees for unused, unreturned or damaged equipment, are detailed in the Pace® Canister Use Policy

PACE RESERVES THE RIGHT TO SURCHARGE ON CREDIT CARD PAYMENTS BASED ON CARD TYPE AND ZIP CODE
 PACE RESERVES THE RIGHT TO PASS ALONG ALL EXPEDITED SHIPPING FEES. A MINIMUM FEE OF \$100 PER COOLER MAY BE APPLIED.

Pace Analytical Terms and Conditions

These Standard Terms (Terms) govern all services that Pace Analytical ______ ("Lab") will perform on behalf of

("Client"), and supersede any other written provisions (including purchase/work orders) related to the services, as well as all prior discussions, courses of dealing, and/or performance, unless a separate, executed agreement for the same or similar services already exists between the Lab and Client (collectively "the Parties), or the Parties subsequently agree to terminate or amend these Terms, as allowed in Section 10 and 12, respectively.

1. Definitions:

<u>Chain of Custody (COC)</u>: A document evidencing the collection, handling, delivery, etc. of a sample or Sample Delivery Group <u>Holding Time</u>: The maximum amount of time a sample may be stored before being analyzed.

Sample Delivery Acceptance (SDA): The date and time when Lab officially receives a sample or Sample Delivery Group, as evidenced by either a notation on the Chain of Custody or an entry in the Lab's information management system (LIMS).

Sample Delivery Group (SDG): A set of samples normally shipped and reported to the Lab as a group.

Turnaround Time (TAT): The maximum allowable period within which Lab must report out its analytical testing results to Client, calculated from the date of SDA.

2. Client's Obligations:

- a. To initiate Lab's services, Client must reference a quotation number (if applicable) and complete one of the following steps:
 - i. Submit a completed purchase order by:
 - 1. hand (i.e., in person)
 - 2. mail, or
 - 3. e-mail; or
 - ii. Place an order by:
 - 1. telephone
 - 2. e-mail, or
 - 3. delivering a sample (or SDG) to Lab and completing the COC

b. Subject to occasional, mutually agreed-upon exceptions, Client must give five (5) days' prior notice for each sample delivery and provide the following information:

- i. Name of the responsible project manager
- ii. Name of the person submitting the sample
- iii. Name/location of collection site
- iv. Date and time of collection
- v. Specific testing being requested, and
- vi. Sufficient details about reporting requirement(s).
- c. Client shall also:

i. Remain liable for any loss or damage to sample(s) until SDA (including that which may occur as a result of third-party shipping delays)

- ii. Pay all invoices in full on a net 30 basis or as otherwise agreed in writing
- iii. Notify Lab about any disputed charges or results within 30 days of receiving applicable invoice
- iv. Reimburse Lab for any costs* related to delinquent payments
- v. Demonstrate its (or, if applicable, the Prime Client's) credit worthiness by accessing the following link:

https://www.pacelabs.com/my-account.html and clicking on "Client Profile Information." (Note: Client must pre-pay for services pending completion of this process and Lab's approval of a credit line.)

vi. Pay for any services it orders on any already analyzed sample



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vii. Obtain Lab's written consent before assigning billing or payment of Lab services to any third party, (failure to do so shall mean Client remains responsible for the payment of any outstanding balance)

viii. Refrain from using any of Lab's supplies (e.g., containers) in connection with any non-Lab work

ix. Ensure that any sample(s) containing any known hazardous substance is (are) labeled, packaged, manifested, transported, and delivered to Lab in accordance with all applicable regulations. (No SDA of any "high hazard" sample can occur without Lab's express permission.)

x. Obtain Lab's prior written consent before publishing Lab's name and/or any data

xi. Reimburse Lab for any out-of-scope services and related expenses (e.g., defending its analytical results or responding to a subpoena for documents and/or expert testimony)

xii. Excuse Lab for any failure or delay in its performance caused by someone or something outside its control, e.g., a third party or "Force Majeure" event or circumstance, such as natural disasters or government shutdowns; and

xiii. Accept responsibility for any claims, damages, losses, expenses*, etc. to the extent caused by Client's: breach of these Terms; negligence or willful misconduct (includes Client's use of Lab data for anything other than the specific purpose for which it was intended), or violation of applicable laws.

3. Lab's Obligations:

Lab shall:

a. Perform its services in accordance with generally accepted analytical and environmental laboratory practices and professionally recognized standards.

- b. Identify on quotation if services will be sent to another Lab location or to a third party.
- c. Promptly notify Client of any:
 - i. Missing sample or otherwise compromised sample(s)
 - ii. Significant delays or other issues affecting Lab's services, or
 - iii. Subpoena or similar demand for Lab compliance
- d. Maintain high-quality services.
- e. Prepare and keep accurate records.
- f. Obtain/maintain any permit(s), license(s), or certification(s).
- g. Charge its fees on a net 30 basis (unless otherwise agreed).
- h. Impose a one and one half percent (1.5%) per month late charge on any unpaid balances.

i. Assess a two and one half percent (2.5%) surcharge on any payments made by credit card. (Client can avoid this charge by paying with a debit card, an e-check/check by phone, a wire transfer, or an ACH payment.)

- j. Invoice Client for each sample or SDG as reported.
- k. Assume risk of loss or damage to any Client sample(s) upon SDA.

I. Initiate analysis within established holding times – so long as SDA occurred within 48 hours of collection or the first half of the maximum allowed holding time.

m. Indemnify Client for any claims, damages, losses, expenses*, etc. to the extent they were caused by Lab's breach of these Terms, negligence or willful misconduct, or the negligence and willful misconduct of persons for whom Lab is legally responsible.

n. Warrant the results, with the express understanding that this warranty is exclusive and does not extend to any merchantability or fitness for a particular purpose.

4. Lab's Discretionary Actions:

Lab may:

- a. Cease all services, including any release of data, if Client does not pay as agreed
- b. Reject or rescind any SDA if Lab decides sample poses any risk or hazard
- c. Charge or bill Client directly for:
 - i. Any supplies (including containers) that are not used or returned
 - ii. Expedited outbound/return shipping for any sample that is not time-sensitive
 - iii. Disposal of any air samples that have not been reclaimed within seven (7) days of Lab's SDA thereof
 - iv. Disposal of any other sample not been reclaimed within 21 days of Lab's SDA thereof, or as otherwise required
 - v. A minimum fee for invoicing and/or handling any sample
 - vi. A sample that underwent SDA, but was not analyzed, at Client's direction
 - vii. Additional shipping and handling as deemed necessary
 - viii. Change in scope and/or rescheduling fees
 - ix. Minimum fees or additional surcharges as necessary
 - x. Reasonable attorneys' fees
 - xi. Project resampling related to missed deliveries, etc.
 - xii. Off cycle pricing increase dictated by the market

xiii. Any request for re-analysis following release of the report if the results are within the variability of the method (or acceptable parameters)

- d. Return unused portions of samples found or suspected to be hazardous to Client, at Client's cost.
- e. Retain Client's unreleased data and/or cancel Client's web portal access pending payment in full.
- f. Increase prices on an annual basis to support market-driven cost-increases.

5. Multiple Dilutions: Lab will report a single value for each analyte based on the most appropriate analysis or dilution for that analyte. Based on general screening where appropriate, samples will be reported on a dilution-only basis due to concentrations of target analytes present. Lab may attempt a 10-fold more concentrated analysis if practicable. Client may also request and pay for additional dilutions if practicable.

6. Dry Weight Correction / Percent (%) Moisture: Consistent with all applicable reporting methods, Lab will automatically analyze any solid



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sample (soil) for % moisture to allow for dry weight correction and charge accordingly. If "wet weight" reporting is requested by the client or the regulatory agency, Lab will maintain the charge for dry weight correction even if the results were not corrected for the applicable reporting criteria.

7. Confidentiality: The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.

8. Governing Law: These Terms shall be construed and interpreted pursuant to the laws of the State of Minnesota without giving effect to the principles of conflicts of law thereof.

9. Term: The Parties shall perform the services identified in the applicable purchase order or other agreement until completed or terminated in accordance with Section 10 below

10. Termination:

- a. Either party may terminate these Terms upon 30 days' prior written notice.
- b. Lab may immediately terminate for any breach by Client, including its failure to pay within 60 days of Lab's dated invoice.

11. Limitation of Liability:

a. If a court of competent jurisdiction finds that Lab failed to meet applicable standards and if Client suffers damages as a result, Lab's aggregate liability for its negligence or unintentional breach of contract shall not exceed the total fee paid for its services.

- b. This limitation shall not apply to any Client losses arising from Lab's negligence or willful misconduct, so long as Client:
 - i. Notifies Lab of any issue within thirty (30) days of receiving applicable invoice, and
 - ii. Allows Lab to defend its data, even to a regulatory agency that may have previously rejected same.

c. Notwithstanding the foregoing, neither Lab nor Client shall be liable to the other for special, incidental, consequential, or punitive damages.

12. Amendment/Change Order: Any attempt to modify, vary, supplement, or clarify any provision of these Terms is of no effect unless reduced to writing and signed by both Parties.

13. Storage of Data: Following final report issuance, Lab will retain back-up data and final test reports for ten (10) years in a format from which the data and/or test report can be reproduced.

14. Intellectual Property: Lab shall retain sole ownership of any new method, procedure, or equipment it develops or discovers while performing services for Client pursuant to these Terms. Lab may, however, grant a license to the Client for its use of same.

15. Non-competition: Client shall not solicit or recruit any Lab personnel for at least 12 months following the termination of the services governed by these Terms.

16. Non-assignment: Neither party may assign or transfer any right or obligation existing under these Terms without prior written notice to the other party, except that Lab may freely transfer the services to another Lab location or, with Client's permission, subcontract the services to a third-party.

17. Insurance: Lab carries insurance with the limits of coverage as indicated below and will, upon Client's request, submit certificates of insurance showing same.

- a. General Liability \$1,000,000 each occurrence; \$2,000,000 general aggregate;
- b. Personal and Advertising Injury \$1,000,000;
- c. Automobile Liability \$1,000,000 combined single limit;
- d. Excess Liability Umbrella \$5,000,000 aggregate; \$5,000,000 each occurrence;
- e. Worker's Compensation Insurance statutory limits; and
- f. Professional Liability \$5,000,000 aggregate, \$5,000,000 per claim.

18. Miscellaneous Provisions:

- a. In the absence of an executed agreement between the Parties, the SDA will constitute acceptance of these Terms by Client.
- b. The Parties may use and rely upon electronic signatures and documents for the execution and delivery of these Terms and any

amendments, notices, records, disclosures, or other documents of any type sent or received in accordance with these Terms. c. The Parties are at all times acting and performing as independent contractors; neither one shall ever be considered an agent,

servant, employee, or partner of the other.

- d. These Terms shall be binding upon, and inure to the benefit of, the Parties and their respective successors and assigns.
- e. Lab's compliance with a subpoena or other order shall not violate any requirement for confidentiality between the Parties.
- f. If any Term herein is invalidated or deemed unenforceable, it shall not affect the validity or enforceability of the other Terms.

IN WITNESS WHEREOF, Client and Lab have executed this Agreement through their duly authorized representatives as of the last date below:

[Client]

By:			
Name:			
Title:			



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Date:_____

Pace Analytical

By:	_
Name:	_
Title:	_
Date:	

*May include reasonable attorney's fees

Quote Prepared by:

Lynette Ray

to your Cradit Application bara

<u>New to Pace? Complete your Credit Application here!</u> Scroll down to "Client Profile Information"