September 1, 2022

Bheem Kothur, P.E., DEE
Used Oil Permit Coordinator
MS4560 FDEP 2600 Blair Stone Road
Tallahassee, FL 32399-2400
(850) 245-8781
bheem.kothur@floridadep.gov

RE: Used Oil and Solid Waste Processing Facility Permit Renewal
Triumvirate Environmental Services, Inc. (formerly Triumvirate Environmental (Florida), Inc.)
EPA ID Number: FLD 981 018 773
Current Operating Permit No.: 77390-011-HO; 77390-012-SO

Dear Bheem Kothur,

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc., operates a Used Oil and Solid Waste Processing Facility located in Broward County at 3670 SW 47th Avenue, Davie, FL 33314. The current operating permit, Permit No. 77390-011-HO & 77390-012-SO, was issued on December 8, 2017, and expires on November 19, 2022. A permit renewal application is required to be submitted by September 20, 2022, at least 60 days before the expiration date.

In the attached permit renewal application, there are proposed changes to the solid waste material processing operations. The proposed changes are discussed in Attachment D "Detailed Process Description". There are no changes proposed to the used oil operations. The following is a summary of the requested modifications to the solid waste processing operation:

1. TESI requests the ability to use two roll-off containers for consolidation and solidification of non-hazardous solid materials. The current permit authorizes only one roll-off container.
2. TESI requests the ability to consolidate any non-hazardous solid waste in the roll-off containers. The current permit limits the type of material that can be consolidated to only oil contaminated debris and latex paint.
3. TESI requests an increase in the storage limit of non-hazardous drums for processing to 500, 55-gallon equivalents. The current permit allows 300, 55-gallon equivalents.
4. TESI requests the ability to devalve non-hazardous waste cylinders.

All sections of the permit renewal application are marked with a revision number and revision date; the revision number of the initial submittal is "0". The permit renewal application included with this cover letter includes attachments and figures as shown in the permit renewal application outline below. A consolidated PDF of the full permit renewal application has also been provided via email for your review.

Permit Renewal Application Outline

Used Oil Permit Renewal	
Application Items	**Location in Application**
1. Used Oil Processing Facility Permit Application (Form 62-710.901(6))	Attachment A
2. Permit renewal fee of $2,000	Attachment A
3. Brief description of the facility operation	Attachment C
4. Detailed process description	Attachment D
5. Waste Analysis Plan (WAP)	Attachment E
6. Sludge, residue, and byproduct management plan	Attachment F
7. Waste tracking plan	Attachment G
8. Preparedness and Prevention Plan	Attachment H & R
9. Contingency plan	Attachment I
10. Unit management description	Attachment J & M
11. Employee training	Attachment L
12. Closure plan	Attachment K
13. Used oil processing facility closing cost estimate form (form 62-710.901(7))	Attachment K
14. Photographs of the site	Attachment U

Solid Waste Permit Renewal	
Application Items	**Location in Application**
1. Application To Construct, Operate, Or Modify A Waste Processing Facility (Form 62-701.900(4))	Attachment B
2. Permit renewal fee of $1,000	Attachment B
3. Description of the operation of the facility	Attachment C
4. Site plan, signed and sealed by a professional engineer	Figure 1
5. Boundary survey and legal description of the property	Attachment O
6. Construction plan, including engineering calculations	Attachment N
7. Operation plan	Attachment C
8. Closure plan	Attachment K
9. Contingency plan	Attachment I
10. Financial assurance documentation	Attachment K
11. History and description of any enforcement actions	Attachment S
12. Documentation that the applicant owns the property	Attachment T

If you have any questions or require additional information regarding this permit renewal application, please do not hesitate to contact me at the information shown in the signature block below.

Sincerely,

Richard Barry
Vice President, Environmental, Health & Safety | Triumvirate Environmental, Inc.
200 Inner Belt Road, Somerville, MA 02143
Office: 617-715-8919 | Mobile: 617-799-2511
rbarry@triumvirate.com | www.triumvirate.com

CC: John (Shawn) Lennon, Facility Manager
Kevin Coulon, General Manager – Southeast
Randy Troy, EHS & Transportation Compliance Specialist
Tim Mooney, Chief Operations Officer

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.

029140

029140

VENDOR ID	NAME	PAYMENT NUMBER	CHECK DATE
FLDEP300	Florida Dept. of Environmental Pro	00000000000034301	8/10/2022

OUR VOUCHER NUMBER	YOUR VOUCHER NUMBER	DATE	AMOUNT	AMOUNT PAID	DISCOUNT	WRITE-OFF	NET
00000000000089651	CKR080522	8/5/2022	$2,000.00	$2,000.00	$0.00	$0.00	$2,000.00
			$2,000.00	$2,000.00	$0.00	$0.00	$2,000.00

COMMENT

TRIUMVIRATE ENVIRONMENTAL

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.
3701 SW 47TH AVE., STE 109
DAVIE, FL 33314

WebsterBank 53-7023/2113 029140

DATE 8/10/2022

AMOUNT $2,000.00

PAY TO THE ORDER OF Two Thousand Dollars and 00 Cents

Florida Dept. of Environmental Protection
Central District
3319 Maguire Blvd., Ste. 232
Orlando FL 32803-3710

William S. Spaw

⑈029140⑈ ⑆211370231⑆10 191800236⑧⑈

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.

029141

029141

VENDOR ID	NAME	PAYMENT NUMBER	CHECK DATE
FLDEP300	Florida Dept. of Environmental Pro	00000000000034302	8/10/2022

OUR VOUCHER NUMBER	YOUR VOUCHER NUMBER	DATE	AMOUNT	AMOUNT PAID	DISCOUNT	WRITE-OFF	NET
00000000000089652	CKR080522-2	8/5/2022	$1,000.00	$1,000.00	$0.00	$0.00	$1,000.00
			$1,000.00	$1,000.00	$0.00	$0.00	$1,000.00

COMMENT

TRIUMVIRATE ENVIRONMENTAL

WebsterBank 53-7023/2113 029141

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.
3701 SW 47TH AVE., STE 109
DAVIE, FL 33314

DATE 8/10/2022

AMOUNT $1,000.00

PAY TO THE ORDER OF One Thousand Dollars and 00 Cents

Florida Dept. of Environmental Protection
Central District
3319 Maguire Blvd., Ste. 232
Orlando FL 32803-3710

William S. Spencer

⑈029141⑈ ⑆211370231⑆10 191800236⑧⑈

Used Oil and Material Processing Facility Permit Renewal Application

Attachment A: Used Oil Processing Facility Permit Application

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

USED OIL PROCESSING FACILITY PERMIT APPLICATION

Part I

TO BE COMPLETED BY ALL APPLICANTS (***Please type or print***)

A. General Information

1. New_____ Renewal __X___ Modification __X___ **Date current permit expires** 11/19/2022

2. Revision number __1___

3. NOTE: Used Oil Processors must also meet all applicable subparts, **(describe compliance in process description for applicable standards)** if they are:

__X__ Generators (Subpart C of Part 279)
_____ Transporters (Subpart E)
__X__ Burners of off-spec used oil (Subpart G)
__X__ Marketers (Subpart H)
_____ are disposing of used oil (Subpart I)

4. Date current operation began: 01/18/1985

5. Facility name: Triumvirate Environmental Services, Inc. (TESI)

6. EPA identification number: FLD 981 018 773

7. Facility Location:

3670 SW 47th Ave	Davie	FL	33314
Street	City	State	Zip Code

8. Facility mailing address (if different from facility location):

3701 SW 47th Ave, Suite 109	Davie	FL	33314
Street or P.O. Box	City	State	Zip Code

9. Contact person: Kevin Coulon Telephone: 954 - 583-3795

Title: General Manager - Southeast Email: kcoulon@triumvirate.com

Mailing Address:

3701 SW 47th Ave, Suite 109	Davie	FL	33314
Street or P.O. Box	City	State	Zip Code

10. Operator's name: Triumvirate Environmental Services, Inc. Telephone: 954 - 583-3795

Email: kcoulon@triumvirate.com

Mailing Address:

3701 SW 47th Ave, Suite 109	Davie	FL	33314
Street or P.O. Box	City	State	Zip Code

11. Facility owner's name: Triumvirate Environmental Services, Inc. Telephone: 954 - 583-3795

Email: kcoulon@triumvirate.com

Mailing Address:
3701 SW 47th Ave, Suite 109 | Davie | FL | 33314
Street or P.O. Box | City | State | Zip Code

12. Legal structure:
X Corporation (indicate state of incorporation) Florida
_____ Individual (list name and address of each owner in spaces provided below)
_____ Partnership (list name and address of each owner in spaces provided below)
_____ Other, e.g., government (please specify) _____
_____ Individual, partnership, or business operating under an assumed name (enter the county and state where the name is registered) County_____ State _____

Name: _____
Mailing Address:
_____
Street or P.O. Box | City | State | Zip Code

Name: _____
Mailing Address:
_____
Street or P.O. Box | City | State | Zip Code

Name: _____
Mailing Address:
_____
Street or P.O. Box | City | State | Zip Code

Name: _____
Mailing Address:
_____
Street or P.O. Box | City | State | Zip Code

13. Site ownership status: [☒] owned [☐] to be purchased [☐] to be leased ____ years
[☐] presently leased; the expiration date of the lease is: _____

If leased, indicate: Land owner's name: _____
Mailing Address:
_____
Street or P.O. Box | City | State | Zip Code

14. Name of professional engineer Victoriano L. San Agustin, Jr. Registration No. 40226

Telephone: 386 - 238-9658 Email: vsanagustin@mdindustrialservices.com

Mailing Address:
5896 Azalea Street | Port Orange | FL | 32127
Street or P.O. Box | City | State | Zip Code

Associated with: M&D Industrial Services, LLC

B. SITE INFORMATION

1. Facility location:
County: Broward
Nearest community: Davie, FL
Latitude: 26.0769477 Longitude: -80.2095771
Section: 25 Township: 50 Range: 41
UTM # 17 / 579053 / 2884445 /

2. Facility size (area in acres): 2.02

3. Attach a topographic map of the facility area and a scale drawing and photographs of the facility showing the location of all past, present and future material and waste receiving, storage and processing areas, including size and location of tanks, containers, pipelines and equipment. Also show incoming and outgoing material and waste traffic pattern including estimated volume and controls.

Topographic map in Attachment O. Scale drawings in Figure 1 and Attachment N. Size and location of tanks, pipes, equipment in Attachment N. Only one gate for traffic entry and exit. Facility photos in Attachment U.

C. OPERATING INFORMATION

1. Hazardous waste generator status (SQG, LQG, etc.) VSQG

2. List applicable EPA hazardous waste codes:

D001, D004 - D043

3. Attach a brief description of the facility operation, nature of the business, and activities that it intends to conduct, and the anticipated number of employees. No proprietary information need be included in this narrative.

A brief description of the facility operation is labeled as Attachment C

4. A detailed description of the process flow should be included. This description should discuss the overall scope of the operation including analysis, treatment, storage and other processing, beginning with the arrival of an incoming shipment to the departure of an outgoing shipment. Include items such as size and location of tanks, containers, etc. A detailed site map, drawn to scale, should be attached to this description. [See item four (4) of the instructions.]

The facility's detailed process description is labeled as Attachment D

5. The following parts of the facility's operating plan should be included as attachments to the permit application. [See item five (5) of the instructions.]

a. An analysis plan which must include:
(i) A sampling plan, including methods and frequency of sampling and analyses;
(ii) A description of the fingerprint analysis on incoming shipments, as appropriate; and
(iii) An analysis plan for each outgoing shipment (one batch/lot can equal a shipment provided the lots are discreet units) to include: metals and halogen content

The analysis plan is labeled as Attachment E

b. A description of the management of sludges, residues and byproducts. This must include the characterization analysis as well as the frequency of sludge removal.

Sludge, residue and byproduct management description is labeled as Attachment F

c. A tracking plan which must include the name, address and EPA identification number of the transporter, origin, destination, quantities and dates of all incoming and outgoing shipments of used oil.

The tracking plan is included as Attachment G

6. Attach a copy of the facility's preparedness and prevention plan. This requirement may be satisfied by modifying or expounding upon an existing SPCC plan. Describe how the facility is maintained and operated to minimize the possibility of a fire, explosion or any unplanned releases of used oil to air, soil, surface water or groundwater which could threaten human health or the environment. [See item six (6) of the instructions.]

The preparedness and prevention plan is labeled as Attachment H

7. Attach a copy of the facility's Contingency Plan. This requirement should describe emergency management personnel and procedures and may be met using a modifying or expounding on an existing SPCC plan or should contain the items listed in the Specific Instructions. [See item seven (7) of the instructions.]

The contingency plan is labeled as Attachment I

8. Attach a description of the facility's unit management for tanks and containers holding used oil. This attachment must describe secondary containment specifications, inspection and monitoring schedules and corrective actions. This attachment must also provide evidence that all used oil process and storage tanks meet the requirements described in item 8b of the specific instructions, and should be certified by a professional engineer, as applicable.

The unit management description is labeled as Attachment J & M

9. Attach a copy of facility's employee training for used oil management. This attachment should describe the methods or materials, frequency, and documentation of the training of employees in familiarity with state and federal rules and regulations as well as personal safety and emergency response equipment and procedures. [See item nine (9) of the instructions.]

A description of employee training is labeled as Attachment L

10. Attach a copy of the facility's Closure plan and schedule. This plan may be generic in nature and will be modified to address site specific closure standards at the time of closure. [See item ten (10) of the instructions.]

The closure plan is labeled as Attachment K

11.

The applicant must have an approved current dollar closing cost estimate using DEP Form 62-710.901(7), "Used Oil Processing Facility Closing Cost Estimate Form," before an application is considered complete. If not previously submitted pursuant to the requirements of Rule 62-710.800(6), F.A.C., and approved by the Department, attach DEP Form 62-710.901(7) here and send a copy to Financial.Assurance.Working.Group@floridadep.gov. [See item eleven (11) of the instructions.]

The current dollar cost estimate is dated 1/7/2022 **and was approved by the Department on** 1/7/2022**. or**

A current dollar cost estimate is labeled as Attachment _____. A copy has been sent to the Financial Assurance Working Group.

12. The applicant must have acceptable proof of financial assurance covering the current dollar Department approved closing cost estimate before the issuance of a permit. Original signature financial assurance documentation that meets the requirements of Rule 62-701.630(6), F.A.C. (pursuant to Rule 62-710.800(6), F.A.C.), must be submitted directly to the Financial Assurance Working Group (aka Solid Waste Financial Coordinator) at the address below. Because this documentation and approval letters may contain proprietary information, copies are not required to be part of the permit application itself. [See item twelve (12) of the instructions.]

Financial Assurance Working Group
Department of Environmental Protection
Permitting & Compliance Assistance Program
2600 Blair Stone Rd. MS 4548
Tallahassee, FL 32399-2400

Financial assurance (FA) documentation was submitted to the Department and the most recent FA compliance letter is dated 2 / 21 / 2022 **. or**

Financial assurance documentation will be submitted to the Department after the attached estimate is approved _____ (check if appropriate)**.**

APPLICATION FORM FOR A USED OIL PROCESSING PERMIT

PART II - CERTIFICATION

TO BE COMPLETED BY ALL APPLICANTS

Form 62-710.901(6) Operator Certification

Facility Name: Triumvirate Environmental Services, Inc. EPA ID# FLD 981 018 773

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or knowing violations. Further, I agree to comply with the provisions of Chapter 403, Florida Statutes, Chapters 62-701 and 62-710, F.A.C., and all rules and regulations of the Department of ~~Environ~~mental Protection

Signature of the Operator or Authorized Representative*

Douglas Youngen, President

Name and Title (Please type or print)

Date: 08/19/2022 Telephone: 617 - 628-8098 Email: dyoungen@triumvirate.com

* If authorized representative, attach letter of authorization.

APPLICATION FROM FOR A USED OIL PROCESSING PERMIT

PART II - CERTIFICATION

Form 62-710.901(6) Facility Owner Certification

Facility Name: Triumvirate Environmental Services, Inc. EPA ID# FLD 981 018 773

This is to certify that I understand this application is submitted for the purpose of obtaining a permit to construct, or operate a used oil processing facility. As the facility owner, I understand fully that the facility operator and I are jointly responsible for compliance with the provisions of Chapter 403, Florida Statutes, Chapters 62-701 and 62-710, F.A.C., and all rules and regulations of the Department of Environmental Protection.

Signature of the Operator or Authorized Representative*

Douglas Youngen, President
Name and Title (Please type or print)

Date: 08/19/2022 Telephone: 617 - 628-8098 Email: dyoungen@triumvirate.com

* If authorized representative, attach letter of authorization.

APPLICATION FROM FOR A USED OIL PROCESSING PERMIT

PART II - CERTIFICATION

Form 62-710.901(6) Land Owner Certification

Facility Name: Triumvirate Environmental Services, Inc. EPA ID# FLD 981 018 773

This is to certify that I, as land owner, understand that this application is submitted for the purpose of obtaining a permit to construct, or operate a used oil processing facility on the property as described.

Signature of the Operator or Authorized Representative*

Douglas Youngen, President

Name and Title (Please type or print)

Date: 08/19/2022 Telephone: 617 - 628-8098 Email: dyoungen@triumvirate.com

* If authorized representative, attach letter of authorization.

APPLICATION FORM FOR A USED OIL PROCESSING PERMIT

PART II - CERTIFICATION

Form 62-710.901(6) P. E. Certification [Complete when required by Chapter 471, F.S. and Rules 62 - 4.050, 62-761, 62-762, 62-701 and 62-710, F.A.C.]

Use this form to certify to the Department of Environmental Protection for:

1. Certification of secondary containment adequacy (capacity), structural integrity (structural strength), and underground process piping for storage tanks, process tanks, and container storage.
2. Certification of leak detection.
3. Substantial construction modifications.
4. Those elements of a closure plan requiring the expertise of an engineer.
5. Tank design for new or additional tanks.
6. Recertification of above items.

Please Print or Type

X Initial Certification _____ Recertification

1. DEP Facility ID Number: FLD 981 018 773 2. Tank Numbers: See Attachment M

3. Facility Name: Triumvirate Environmental Services, Inc.

4. Facility Address: 3670 SW 47th Ave, Davie, FL 33314

This is to certify that the engineering features of this used oil processing facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly constructed, maintained and operated, or closed, will comply with all applicable statutes of the State of Florida and rules of the Department of Environmental Protection.

Victoriano L. San Agustin, Jr.
Signature

Victoriano L. San Agustin, Jr.
Name (please type)

Florida Registration Number: 40226

Mailing Address: 5896 Azalea Street
Street or P. O. Box

Port Orange FL 32127
City State Zip

Date: 8-18-22 Telephone 386 - 238-9658 Email: vsanagustin@mdindustrialservices.com

[PLEASE AFFIX SEAL]

Used Oil and Material Processing Facility Permit Renewal Application

Attachment B: Application To Construct, Operate, Or Modify A Waste Processing Facility (Form 62-701.900(4))

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(4), F.A.C.

Form Title: Application to Construct, Operate, or Modify a Waste Processing Facility

Effective Date: February 15, 2015

Incorporated in Rule: 62-701.710(2), F.A.C.

APPLICATION TO CONSTRUCT, OPERATE, OR MODIFY A WASTE PROCESSING FACILITY

GENERAL REQUIREMENT: Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes (F.S.) and in accordance with Florida Administrative Code (F.A.C.) Chapter 62-701. A permit application shall be submitted in accordance with the requirements of Rule 62-701.320(5)(a), F.A.C., to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with subsection 62-701.315(4), F.A.C., shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP). Complete appropriate sections for the type of facility for which application is made and include all additional information, drawings, and reports necessary to evaluate the facility.

Please Type or Print in Ink

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

☐ Transfer Station:

☐ C&D ☐ Class III ☐ Class I

☐ Other Describe: _____

☐ Materials Recovery Facility:

☐ C&D Recycling ☐ Class III MRF ☐ Class I MRF

☐ Other Describe: _____

■ Other Facility That Processes But Does Not Dispose Of Solid Waste On-Site:

☐ Storage, Processing or Disposal for Combustion Facilities (not addressed in another permit)

■ Other Describe: Consolidation and Solidification of Non-Hazardous Waste for Off-site Disposal

NOTE: C&D Disposal facilities that also recycle C&D, shall apply on DEP FORM 62-701.900(6), F.A.C.

2. Type of application:

☐ Construction/Operation

■ Operation without Additional Construction

3. Classification of application:

☐ New ☐ Substantial Modification

■ Renewal ☐ Intermediate Modification

■ Minor Modification

4. Facility name: Triumvirate Environmental Services, Inc.

5. DEP ID number: FLD981018773 County: Broward

6. Facility location (main entrance): 3670 SW 47th Avenue, Davie, FL 33314

7. Location coordinates:

Section: 25 Township: 50 South Range: 41 East

Latitude: 26 ° 4 ' 37.0128 " Longitude: -80 ° 12 ' 34.4772 "

Datum: WGS84 Coordinate Method: Universal Transverse Mercator (UTM)

Collected by: Google Earth Company/Affiliation: Alphabet, Inc.

8. Applicant name (operating authority): Triumvirate Environmental Services, Inc.

Mailing address: 3701 SW 47th Ave, Suite 109 Davie FL 33314
Street or P.O. Box City State Zip

Contact person: Kevin Coulon Telephone: (____) 954-583-3795

Title: General Manager, Southeast Division kcoulon@triumvirate.com
E-Mail address (if available)

9. Authorized agent/Consultant: N/A

Mailing address: _____
Street or P.O. Box City State Zip

Contact person: _____ Telephone: (____) 954-583-3795

Title: _____ _____
E-Mail address (if available)

10. Landowner (if different than applicant): TEI Davie LLC

Mailing address: 3701 SW 47th Ave, Suite 109 Davie FL 33314
Street or P.O. Box City State Zip

Contact person: Doug Youngen, President Telephone: (____) 954-583-3795

dyoungen@triumvirate.com
E-Mail address (if available)

11. Cities, towns and areas to be served: Southern Florida

12. Date site will be ready to be inspected for completion: September 20, 2022

13. Estimated costs:

Total Construction: $ 0 Closing Costs: $ 0

14. Anticipated construction starting and completion dates:

From: No construction required To: Facility already exists

15. Expected volume of waste to be received: 20 yds^3/day 2 tons/day

16. Provide a brief description of the operations planned for this facility: Consolidation of non-hazardous materials from drums and other containers into 20 cubic yard roll-off containers. Non-hazardous liquids may be solidified in the roll-off containers using inert absorbent materials.

B. ADDITIONAL INFORMATION

Please attach the following reports or documentation as required.

1. Provide a description of the operation of the facility that shall include (62-701.710(2)(a), F.A.C.): **Attachment C**
   a. The types of materials, i.e., wastes, recyclable materials or recovered materials, to be managed or processed;
   b. The expected daily average and maximum weights or volumes of materials to be managed or processed;
   c. How the materials will be managed or processed;
   d. How the materials will flow through the facility including locations of the loading, unloading, sorting, processing and storage areas;
   e. The types of equipment that will be used;
   f. The maximum time materials will be stored at the facility;
   g. The maximum amounts of wastes, recyclable materials, and recovered materials that will be stored at the facility at any one time; and
   h. The expected disposition of materials after leaving the facility.

2. Attach a site plan, signed and sealed by a professional engineer registered under Chapter 471, F.S., with a scale not greater than 200 feet to the inch, which shows the facility location, total acreage of the site, and any other relevant features such as water bodies or wetlands on or within 200 feet of the site, potable water wells on or within 500 feet of the site (62-701.710(2)(b), F.A.C.). **Figure 1**

3. Provide a boundary survey and legal description of the property (62-701.710(2)(c), F.A.C.). ** Attachment O**

4. Provide a construction plan, including engineering calculations, that describes how the applicant will comply with the design requirements of subsection 62-701.710(3), F.A.C. (62-701.710(2)(d), F.A.C.). **Attachment N**

5. Provide an operation plan that describes how the applicant will comply with subsection 62-701.710(4), F.A.C. and the recordkeeping requirements of subsection 62-701.710(8), F.A.C. (62-701.710(2)(e), F.A.C.). **Attachment D**

6. Provide a closure plan that describes how the applicant will comply with subsection 62-701.710(6), F.A.C. (62-701.710(2)(f), F.A.C.). **Attachment K**

7. Provide a contingency plan that describes how the applicant will comply with subsection 62-701.320(16), F.A.C. (62-701.710(2)(g), F.A.C.). **Attachment I**

8. Unless exempted by subparagraph 62-701.710(1)(d)1., F.A.C., provide the financial assurance documentation required by subsection 62-701.710(7), F.A.C. (62-701.710(2)(h), F.A.C.). **Attachment K**

9. Provide a history and description of any enforcement actions by the applicant described in subsection 62-701.320(3), F.A.C. relating to solid waste management facilities in Florida. (62-701.710(2), F.A.C. and 62-701.320(7)(i), F.A.C.)
   Attachment S

10. Provide documentation that the applicant either owns the property or has legal authorization from the property owner to use the site for a waste processing facility (62-701.710(2), F.A.C. and 62-701.320(7)(g), F.A.C.)
    Attachment T

C. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of Triumvirate Environmental Services, Inc. is aware that statements made in this form and attached information are an application for a solid waste processing Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

Signature of Applicant or Agent

Douglas Youngen
Name and Title (please type)

dyougnen@triumvirate.com
E-Mail address (if available)

3701 SW 47th Ave, Suite 109
Mailing Address

Davie, FL 33314
City, State, Zip Code

( ) 954-583-3795
Telephone Number

08/19/2022
Date

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this waste processing facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.

Signature

Victoriano L. San Agustin, Jr., Senior Engineer
Name and Title (please type)

40226
Florida Registration Number
(please affix seal)

5896 Azalea Street
Mailing Address

Port Orange, FL 32127
City, State, Zip Code

vsanagustin@mdindustrialservices.com
E-Mail address (if available)

( ) 386-238-9658
Telephone Number

8-18-22
Date

Used Oil and Material Processing Facility
Permit Renewal Application

Attachment C: Operations Description

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

Brief Description of the Facility Operation

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida) Inc., (TEIFL), is a used oil processing and solid waste processing facility that is located in the Town of Davie. As used oil filter and used oil processor, transporter, transfer facility, and marketer, TESI is subject to 40 CFR 279 and applicable state regulations governing used oil management. Used oil is stored in multiple tanks located within the southernmost tank storage area. There are no underground tanks or underground piping located at the facility. All aboveground tanks, piping, and ancillary equipment is secondarily contained. Used oil is processed at the facility utilizing proprietary physical and chemical methodologies. Used oil is separated from water by allowing the material to settle; chemical separation is also utilized as needed. Used oil and non-hazardous waste are tested in accordance with the facility's Waste Analysis Plan (Located in **Attachment E**).

TESI is also a solid waste processing facility. TESI receives non-hazardous wastes from CERCLA and non-CERCLA sites. TESI consolidates non-recyclable, non-hazardous oily sludges and other non-hazardous wastes from drums and other containers into a roll-off container. The roll-off container is then shipped offsite to a permitted treatment, storage, and disposal facility (TSDF).

Additionally, TESI is a hazardous waste transporter, 10-day hazardous waste transfer facility, and a biomedical waste transporter and storage facility. TESI is also a transporter, transfer facility, and small quantity handler of universal waste lamps and devices.

There are 5-10 employees associated with site operations.

Used Oil and Material Processing Facility Permit Renewal Application

Attachment D: Process Description

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

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Detailed Process Description

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc. (TEIFL), is a used oil processing facility located in the Town of Davie, Florida. As a used oil and used oil filter processor, transporter, and marketer, TESI is subject to 40 CFR 279 and all applicable state and local regulations governing used oil management. Additionally, TESI is a hazardous waste transporter, 10-day hazardous waste transfer facility, non-hazardous waste processing facility, biomedical waste transporter, and biomedical waste storage facility. TESI is a transporter, transfer facility, and small quantity handler of universal waste and devices.

TESI accepts all used oil, off specification fuel, coolants, oil filters, industrial non-hazardous waste, oily wastewater, petroleum contact water, non-hazardous investigative derived wastewater, non-hazardous investigative derived solids and sludges, non-hazardous sludge, petroleum contaminated soil and sludges, and virgin fuels.

1. Used Oil Treatment Storage and Other Processing

Used oil is collected at the facility from pump trucks, DOT-approved drums, or tanker trailers from automotive generators such as dealerships and used oil generators from the marine industry and other used oil generating industries.

Used oil is received from pump trucks, DOT-approved drums, or tanker trailers from generators such as companies in the automotive industry, cruise ships, and industrial manufacturers. At the facility, used oil is transferred into one of the onsite storage tanks. A list of storage tanks is shown in **Attachment M "Unit Management"**. The location of these storage tanks are shown in **Figure 1 "Facility Site Plan"**. The used oil is then filtered, heat-treated for oil/water separation, and then sold as burner fuel to asphalt plants, cement plants, and power utility companies. Used oil is tested by an outside laboratory to make sure the used oil fuel meets compliance with the federal standards for "on-specification fuel." Each load that enters the facility is tested for halogens using a Dexsil test kit to ensure the oil does not exceed 999 parts per million total halogens.

Non-hazardous wastewater is collected in separate compartments of pump trucks. It is also collected in DOT-approved drums, or tanker trailers from generators such as cruise ships, auto dealerships, and industrial facilities. The water is transferred into a 100,000 gallon surge tank designated as Tank T21, then filtered, then heated for oil/water separation (water fraction only), and then transferred to an offsite industrial wastewater pre-treatment facility for treatment and disposal. The term "oily wastewater" is applied only to non-hazardous oily wastewater, based on either a TCLP test of petroleum related contaminants of the generator's waste stream of <1,000 ppm total halogens, or based on the generator's technical knowledge of the waste stream if the source and extent of the contamination is known.

Used oil is stored in one of multiple tanks located within the southernmost tank storage area. Oily wastewater is stored in both the southern and northern tank storage areas. There are no underground tanks or piping located at the facility. All tanks, piping, and ancillary equipment are located within secondary containment. Used oil is processed utilizing proprietary physical and chemical methods. Refer to **Figure 1** for the sitemap and **Attachment M "Unit Management"** for a list of all tanks at the facility.

a. Analysis

As stated in 40 CFR 279.10(b)(ii), used oil containing or thought to contain more than 999 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous wastes listed in Subpart D of 40 CFR 261. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII of part 261 of this chapter).

- The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffin's if they are processed through a tolling arrangement, as described in 279.24(c), to reclaim metalworking oils/fluids. The presumption does not apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner or disposed.
- The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFC's are destined for reclamation.

b. On Specification Used Oil

According to 40 CFR 279.11 used oil burned for energy recovery and any fuel produced from used oil by processing, blending, or other treatment is subject to regulation under 40 CFR 279 if it can be shown that the used oil does not exceed any part of the allowable levels for constituents shown below:

Table 1: Used Oil Allowable Constituents

Constituents / Property	Allowable Levels
Arsenic	5 ppm Maximum
Cadmium	2 ppm Maximum
Chromium	10 ppm Maximum
Lead	100 ppm Maximum
Flash Point	100°F Minimum
PCB	2 ppm Maximum
Total Halogens	1,000 ppm Maximum

Pursuant to 40 CFR 279.72, a generator, transporter, processor, re-refiner, or burner may determine that used oil that is to be burned for energy recovery meets the specifications of Table 1 by performing analyses or obtaining copies of analyses or other information documenting that the used oil meets the above specifications.

TESI utilizes on-site, contract laboratories, and/or laboratory capabilities of its affiliate companies to satisfy the requirements of its waste analysis plan. All laboratories shall utilize the methodologies and procedures found in USEPA publications SW-846, most current edition.

TESI conducts various site-specific analyses for the various generators which they encounter. Regular generators (i.e., generators that produce used oil or oily wastewater as part of a normal on going

operation) and non-regular generators of used oil and oily wastewaters are sampled and analyzed initially using the Dexsil test or other equivalent test method. Subsequent used oil from the same generators is screened for halogens using a Tekmate halogen sniffer or other equivalent halogen sniffer. Results of halogen screening are shown on the used oil manifest. If the halogen sniffer detects halogens, the used oil is tested using the Dexsil test. If the halogen sniffer detects no halogens, the used oil is accepted.

Every load delivered to a facility by an outside transporter is sampled prior to off-loading the material. Non-frequent generators or one time generators are sampled prior to removal of material from the generator site.

Before TESI accepts used oil from a generator for the first time, a sample of the oil is examined to determine whether or not the total halogen content is less than or equal to 999 ppm. TESI utilizes SW-846 Method 9077 "Test for Chlorine in New and Used Petroleum Products" and other equivalent method(s) to determine halogen content. If the oil contains less than or equal to 999 ppm total halogens, TESI shall accept the material for processing. After the initial receipt, subsequent used oil from the same generators are tested for halogens using the Tekmate halogen sniffer or other equivalent halogen sniffer. If the halogen sniffer does not detect halogens, the used oil is accepted. If halogens are detected by the sniffer, the above mentioned test method used of initial acceptance of used oil is performed.

If the used oil contains 1,000 ppm or more total halogens, TESI shall forward the sample to a contract laboratory or a permitted hazardous waste facility for analysis by EPA method 8010 or an equivalent method(s) to check for significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents. Significant concentrations of halogenated constituents, as outlined by USEPA, is any single halogenated constituent with a concentration exceeding 100 ppm.

If the used oil does not contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds; TESI shall accept the used oil. If the used oil does contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall inform the generator that use used oil must be managed as a hazardous waste and routed through the Triumvirate network of facilities or other permitted hazardous waste facilities.

2. Hazardous Waste Transporter

a. Treatment, Storage, and Other Processing

TESI is a registered hazardous waste transporter and handles customers hazardous waste by temporarily storing the wastes until they are picked up or delivered to a permitted waste disposal facility (40 CFR 263.12). TESI has a dedicated area at its facility for storing drummed hazardous wastes. Drummed hazardous wastes are stored in its permitted area and do not exceed the permitted volume. All drums of hazardous waste are kept within secondary containment.

3. Non-Hazardous Sludge, Non-Hazardous Derived Soils, and Petroleum Contaminated Soils/Sludges Processor

a. Treatment, Storage and Other Processing

Non-hazardous sludges which include heavy oils and/or contaminated fuels must be blended before they meet customer fuel specification. After being pumped into the 100,000 gallon surge tank, the material enters the normal separation processes. Bottom sludges generated during this process must regularly be removed from the tank. The tanks are cleaned, and the material is drummed and tested for TCLP toxicity. Hazardous sludges are managed as hazardous wastes and disposed of through a permitted waste disposal facility.

b. Analysis

Solids/Sludges shall be analyzed for RCRA metals and organic constituents in accordance with Toxicity Characteristic Leaching Procedure (TCLP) or may be accepted based on the generator's technical knowledge of the waste stream. Additional testing for ignitability or corrosivity may be required.

4. Solid Waste Processing

TESI is also permitted as a solid waste processing facility. TESI may receive non-hazardous waste in drums and other similar size containers. These drums are stored either inside the one storage building, containment #8, or inside containment #3.

a. Operations Under Current Operating Permit

The maximum amount of drums stored onsite are 300 drums and one roll-off container for consolidation. The drums remain closed unless they are being processed. Some drums of used oil contain non-pumpable, non-recyclable sludges and solids after pumping out the used oil. Non-hazardous materials also include latex paints and other non-RCRA materials from our clients. Drummed waste is stored inside the drum storage building and outside in the secondary containment by the roll-off.

TESI consolidates the above mentioned non-hazardous wastes from the smaller containers into the one 20 cubic yard roll-off container located in containment #3. The roll-off is covered when not in use. An inert absorbent material is used to solidify any free liquids that may be present inside the roll-off. Solidification occurs with pigs, oil absorbents, pads, used oil dry, or swell-gel.

The roll-off container is then shipped offsite to a permitted treatment, storage, and disposal facility (TSDF).

b. Proposed Modifications to Operating Permit

The following is a summary of the requested modifications to the current solid waste processing operations described above:

1. TESI requests the ability to use two roll-off containers for consolidation and solidification of non-hazardous solid materials. The current permit authorizes only one roll-off container.
2. TESI requests the ability to consolidate any non-hazardous solid waste in the roll-off containers. The current permit limits the type of material that can be consolidated to only oil contaminated debris and latex paint.
3. TESI requests an increase in the storage limit of non-hazardous drums for processing to 500, 55-gallon equivalents. The current permit allows 300, 55-gallon equivalents.
4. TESI requests the ability to de-valve non-hazardous waste cylinders. A Standard Operating Procedure (SOP) for this process is provided in **Attachment P "Cylinder Devalve Process"**.

c. Analysis

Solids/sludges shall be analyzed for RCRA metals and organic constituents in accordance with Toxicity Characteristic Leaching Procedure (TCLP) or may be accepted based on the generator's technical knowledge of the waste stream. Additional testing for ignitability or corrosivity may be required.

Used Oil and Material Processing Facility Permit Renewal Application

Figure 1: Site Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

N

0 40 ft

Scale

LEGEND:

1	- horizontal above ground storage tank (AST)
(13)	- vertical AST
R1	- location of current rolloff for non-hazardous waste solidification/consolidation.
R2	- location of second rolloff for non-hazardous waste solidification/consolidation.
CD	- concrete dock
NHW	- area where non-hazardous drums are stored prior to solidification/consolidation in rolloff.
SC #1	- secondary containment no. 1

VICTORIANO L. SAN AGUSTIN JR. REGISTERED No. 40226 STATE OF FLORIDA PROFESSIONAL ENGINEER

8-22-22

TRIUMVIRATE ENVIRONMENTAL, INC.
3701 SW 47th Avenue
Davie, Florida 33314

TEI Facility Site Plan

PROJECT NO. E0630

DATE: August 9, 2022

FIGURE 1

M & D INDUSTRIAL SERVICES, LLC
5896 Azalea Street
Port Orange, FL 32127

Used Oil and Material Processing Facility Permit Renewal Application

Attachment E: Waste Analysis Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

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Waste Analysis Plan and Material Profiling

A. Introduction

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc. (TEIFL), is a used oil processing facility located in the town of Davie, Florida. As a used oil and used oil filter processor, transporter, and marketer, TESI is subject to 40 CFR 279 and all applicable state and local regulations governing used oil management. Specifically, 40 CFR 279.55 requires TESI, as a used oil processing facility, to prepare, maintain, and adhere to a Waste Analysis Plan. As stated in 40 CFR 279.55, the owner/operator of a used oil processing facility must develop and follow a written waste analysis plan describing the procedures that shall be used to comply with the analytical requirements of 40 CFR 279.53, the rebuttable presumption, and 40 CFR 279.72, the determination of on-specification used oil. This waste analysis plan is developed to satisfy the requirements of 40 CFR 279.55 by establishing methods for documenting the analytical requirements of 40 CFR 279.53 and 279.72.

Additionally, TESI is a hazardous waste transporter, 10-day hazardous waste transfer facility, non-hazardous waste processing facility, biomedical waste transporter, and biomedical waste storage facility. TESI is also a transporter, transfer facility, and small quantity handler of universal waste and devices. This waste analysis plan is also designed to ensure compliance with RCRA waste characterization and management regulations.

B. Used Oil and Oily Waste

Used oil and oily waste include but are not limited to used oil, oily wastewater, oil filters, and oil contaminated solids and sludges.

1. Rebuttable Presumption

As stated in 40 CFR 279.10(b)(ii), used oil containing or thought to contain more than 999 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous wastes listed in Subpart D of 40 CFR 261. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII of Part 261).

a) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling arrangement as described in 279.24(c), to reclaim metalworking oils/fluids. The presumption does not apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner or disposed.

b) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation.

2. On Specification Used Oil

According to 40 CFR 279.11 used oil burned for energy recovery and any fuel produced from used oil by processing, blending, or other treatment is subject to regulation under 40 CFR 279 if it can be shown that the used oil does not exceed any part of the allowable levels for constituents shown below:

Table 1: Used Oil Allowable Constituents	
Constituents / Property	**Allowable Levels**
Arsenic	5 ppm Maximum
Cadmium	2 ppm Maximum
Chromium	10 ppm Maximum
Lead	100 ppm Maximum
Flash Point	100°F Minimum
PCB	1 ppm Maximum
Total Halogens	1,000 ppm Maximum

Pursuant to 40 CFR 279.72, a generator, transporter, processor, re-refiner, or burner may determine that used oil that is to be burned for energy recovery meets the specifications of the Table 1 by performing analyses or obtaining copies of analyses or other information documenting that the used oil meets the above specifications.

C. Waste Analysis Plan

TESI utilizes on-site, contract laboratories, and/or laboratory capabilities of its affiliate companies to satisfy the requirements of its waste analysis plan. All laboratories shall utilize the methodologies and procedures found in USEPA publications SW-846, most current edition.

TESI, because of the nature of its business, varies the analysis on a site-specific basis. Regular generators (i.e., generators that produce used oil or oily wastewater as part of a normal ongoing operation) and non-regular generators of used oil and oily wastewaters are sampled and analyzed initially using the Dexsil test or other equivalent test method. Subsequent used oil from the same generators is screened for halogens using a Tekmate halogen sniffer or other equivalent halogen sniffer. Results of halogen screening are shown on the used oil manifest. If the halogen sniffer detects halogens, the used oil is tested using the Dexsil test. If the halogen sniffer detects no halogens, the used oil is accepted.

1. Used Oil and Oily Waste

Used Oil and Oily Wastewater

Before TESI accepts used oil from a generator for the first time, a sample of the oil is examined to determine whether or not the total halogen content is less than equal to 999 ppm. TESI utilizes SW-846 Method 9077 “Test for Chlorine in New and Used petroleum Products” and other equivalent method(s) to determine halogen content. If the oil contains less than or equal to 999 ppm total halogens, TESI shall accept the material for processing. After the initial receipt, subsequent used oil from the same generators is tested for halogens using the Tekmate halogen sniffer or other equivalent halogen sniffer. If the halogen sniffer does not detect halogens, the used oil is accepted. If halogens are detected by the sniffer, the above mentioned test method used of initial acceptance of used oil is performed.

If the used oil contains 1,000 ppm or more total halogens, TESI shall forward the sample to a contract laboratory or a permitted hazardous waste facility for analysis by EPA method 8010 or an equivalent method(s) to check for significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents. Significant concentrations of halogenated constituents, as outlined by USEPA, is any single halogenated constituent with a concentration exceeding 100 ppm.

If the used oil does not contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall accept the used oil. All used oil and oily wastewater is stored in accordance with the facilities SPCC plan and inside a secondary containment. If the used oil does contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall inform the generator that use used oil must be managed as a hazardous waste and routed through the Triumvirate network of facilities or other permitted hazardous waste facilities.

Documentation of this waste analysis shall be through facility inventory logs and/or the material Profile Form (or their equivalent) for used oil and oily waste (see **Attachment Q**).
Notes:

1. Compressor and refrigerant oils contaminated with chlorofluorocarbons (CFCs) shall be managed as hazardous waste. Refer to Section G for waste analysis information regarding hazardous wastes. TESI may revise this standard operating procedure in accordance with federal, state, and local regulations.
2. Hazardous waste from conditionally exempt small quantity generators (CESQG) shall not be mixed with used oil.
3. TESI does not accept used oil commingled with antifreeze without analytical data indicating that the antifreeze was non-hazardous prior to mixing with the used oil.

Oil Filters

Before accepting used oil filters (crushed or uncrushed) for transportation and recycling as scrap metal, the oil filters shall be gravity drained by the generator pursuant to 40 CFR 279.10 9(c)(1)(i). Pursuant to 40 CFR 279.10(c)(1)(i) and 40 CFR 261.4(b)(13), oil filters are not subject regulation as hazardous waste under 40 CFR 261 or used oil under 40 CFR 279. A material profile form is not required for this waste. All oil filters are stored in accordance with the facilities SPCC plan and inside a secondary containment.

If any indication exists that the oil filters have been commingled with waste listed in Subpart D of 40 CFR 261 the filters shall be rejected. A sample of the commingled waste shall be obtained for analysis pursuant to Section G.

Oily Solids/Sludges Destined for Recycling

Before TESI accepts oily solids or oily sludges from a generator for the first time, a sample of the material is examined to determine whether or not the total halogen content is less than equal to 999 ppm. TESI utilizes SW-846 Method 9077 “Test for Chlorine in New and Used petroleum Products” and other equivalent method(s) to determine halogen content. If the material contains less than or equal to 999 ppm total halogens, TESI shall accept the material for processing. After the initial receipt, subsequent oily solids or oily sludges from the same generators are tested for halogens using the

Tekmate halogen sniffer or other equivalent halogen sniffer. If the halogen sniffer does not detect halogens, the used oil is accepted. If halogens are detected by the sniffer, the above mentioned test method used of initial acceptance of used oil is performed.

If use the used oil contains 1,000 ppm or more total halogens, TESI shall forward the sample to a contract laboratory or a permitted hazardous waste facility for analysis by EPA method 8010 or an equivalent method(s) to check for significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents. Significant concentrations of halogenated constituents, as outlined by USEPA, is any single halogenated constituent with a concentration exceeding 100 ppm.

If the material does not contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall accept the used oil. All oily solids/sludges are stored in accordance with the facilities SPCC plan and inside a secondary containment. If the used oil does contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall inform the generator that use material must be managed as a hazardous waste and routed through the Triumvirate network of facilities or other permitted hazardous waste facilities.

Documentation of this waste analysis shall be through facility inventory logs and/or the Material Profile Form (or their equivalent) for used oil and oily waste (see **Attachment Q "Permit Related Forms"**).

Note: Hazardous waste sludges/solids from Conditionally Exempt Small Quantity Generators/Very Small Quantity Generators (VSQGs) shall not be mixed with oily waste.

Oily Solids/Sludges Destined for Disposal

Although used oil is commonly recovered from oily solids/sludges, oily solids/sludges may be managed as waste destined for disposal, not recycling. Therefore, these materials, when destined for disposal, shall be analyzed for RCRA metals and organics in accordance with the TCLP as well as ignitability and corrosivity, if applicable. If process knowledge is available indicating the nature and/or physical characteristics of the waste, the above mentioned analytical requirements may be reduced. However, the minimum analytical requirements shall be RCRA metals and organics in accordance with TCLP. All oily solids/sludges are stored in accordance with the facilities SPCC plan and inside a secondary containment.

Documentation of this waste analysis shall be through the Material Profile Form in **Attachment Q "Permit Related Forms"**, or equivalent.

2. Processed Used Oil

Processed used oil is stored in a product tank until shipment to an industrial furnace. Each time a tanker trailer is loaded with processed used oil for shipment to an industrial furnace, the used oil shall be tested to demonstrate that the total halogen content is less than or equal to 1,000 PPM. TESI utilizes SW-846 Method 9077 "Test Method for Total Chlorine in New and Used Petroleum Products" or equivalent method to determine the halogen content.

Samples are also analyzed monthly by a contract laboratory to determine if the used oil is on specification meeting the requirements of Table 1. One sample is taken every 100,000 gallons batch or two samples per month, whichever is greater. In addition to the requirements of Table 1, the samples shall be analyzed for polychlorinated biphenyls (PCBs), BTUs, sulfur, and viscosity. All analysis shall be conducted in accordance with SW-846 or ASTM protocols, as applicable.

Documentation of this waste analysis shall be through facility inventory logs and monthly analytical data maintained as part of the facility records. Copies will be forwarded to the customer so that they can be included in their operational records.

D. Non-Hazardous Wastewater

Incoming wastewater shall be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP). Additional testing for ignitability and corrosivity may also be required. If process knowledge is available indicating the nature and/or physical characteristics of the waste, then the above mentioned analytical requirements may be reduced.

E. Petroleum Contact Water

For wastewater subject to the Petroleum Contact Water (PCW) regulations under rule 62-740 F.A.C. generators shall provide analytical data or process knowledge, along with any Safety Data Sheets (SDSs) that the generator has, demonstrating that the PCW does not contain hazardous constituents above those found in the petroleum source of the PCW or other hazardous constituents not normally found in the PCW. Petroleum contact water is collected in separate trucks from used oil.

Documentation of this waste analysis shall be through the Material Profile Form (see **Attachment Q**). If it is determined that the waste is hazardous refer to Section G below for more waste analysis information.

F. Non-Hazardous Solids/Sludges

Solids/Sludges shall be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP). Additional testing for ignitability and corrosivity may also be required. If process knowledge is available indicating the nature and/or physical characteristics of the waste, then the above mentioned analytical requirements may be reduced.

Documentation of this waste analysis shall be through the Material Profile Form (see **Attachment Q**).

If the waste is determined to be hazardous refer to Section G for additional waste analysis information.

G. Hazardous Waste

Analytical testing for these wastes shall be dictated by the waste analysis plan for the hazardous waste facility receiving the waste. Documentation of the waste analysis shall be through the Material Profile Form required by the hazardous waste facility. Refer to **Attachment Q** for an example Material Profile Form for hazardous waste.

NOTE:

1. Compressor and refrigerant oils contaminated with chlorofluorocarbons (CFCs) shall be managed as hazardous waste in accordance with this section
2. Hazardous waste from conditionally exempt small quantity generators shall not be mixed with used oil.

H. Antifreeze and Coolants

Antifreeze and coolants are sent to a licensed antifreeze recycler. When recycled, antifreeze is not subject to TCLP, ignitability, or corrosivity testing. When the waste is to be sent for disposal, however, these materials shall be analyzed for TCLP metals and organics. Additional testing for ignitability and corrosivity may also be required. If process knowledge is available indicating the nature and or physical characteristics of the waste the above mentioned analytical requirements may be reduced. However, the minimum analytical requirement when disposing of the waste shall include RCRA metals and volatile organics in accordance with TCLP.

Whether recycled or disposed, documentation of this waste analysis shall be through the Material Profile Form (see **Attachment Q**).

If the waste is determined to be hazardous refer to Section G for more waste analysis information.

I. Commercial Chemical Products and Off Specification Products

Commercial Chemical Products (CCPs) are materials that were never used and are in their original packaging or container. Off specification products are materials that are no longer suitable for their original intended purpose due to expiration of its shelf life, chemicals degradation, or contamination. An example of an off specification product is waste fuels. Off specification products do not include wastes or spent materials which were generated through the use of the product of from a manufacturing or industrial process.

Pursuant to 40 CFR 261.2(c)(3), commercial chemical products destined for reclamation are exempt from regulation as a waste.

No analytical testing is required for off-specification fuels. Documentation of waste analysis for commercial chemical products and off specification products, other than fuels, shall be the Material Profile Form in **Attachment Q**. Safety Data Sheets (SDSs) may provide sufficient information to characterize off specification products. However, if the SDS information is incomplete additional analysis may be required. The additional analysis conducted to supplements the SDS shall be determined on a case by case basis taking into consideration the type of off-specification product and process knowledge.

J. Empty Drums

A drum that held hazardous waste listed in 40 CFR 261 is empty if all the waste in the drum has been removed by all reasonable means and no more than one inch of material remains in the drum.

A drum that held acutely hazardous waste listed in 40 CFR 261 is empty if the drum was emptied by all reasonable means and tripled rinsed by a material that is capable of removing the acutely hazardous waste.

If the above conditions are met the drums do not require a Material Profile Form. If the above conditions are not met the drum and its contents must be managed as hazardous waste. Refer to Section G for more waste analysis information.

K. Batteries

Pursuant to 40 CFR 261.6(a)(2)(iv), spent lead acid batteries destined for reclamation are subject to regulation under 40 CFR 266, Subpart G in lieu of 40 CFR 261 and 262. Leaking batteries shall not be accepted under this waste analysis criteria. Leaking batteries shall be managed as D002 hazardous waste in accordance with Section G of this waste analysis plan.

Pursuant to 40 CFR 273, nickel cadmium and lithium batteries destined for reclamation are subject to regulation under 40 CFR 266, Subpart G in lieu of 40 CFR 261 and 262. A Material Profile Form will be completed for all batteries that enter the facility.

When it is not possible to manage batteries as universal waste they will be placed into DOT approved containers and managed as hazardous waste. Refer to Section G for more waste analysis information.

L. Universal Waste Lamps and Devices

Universal waste lamps and devices are managed and accumulated by TESI in small quantities (<5,000 kg) as universal wastes in accordance with 40 CFR 273 Subpart B. When properly managed under 40 CFR 273 universal waste lamps and devices are not subject to waste analysis plan requirements. A material profile form is completed for lamps and devices managed as universal waste. **Attachment Q** contains an example of such a material profile form. TESI sends universal waste lamps and devices to a licensed recycler.

M. Industrial Wastewater

Triumvirate Environmental Services, Inc. is not an end disposal facility for industrial wastewater and the permit being applied for does not grant the authority to dispose of industrial wastewater.

N. Prohibited Waste

TESI does not accept radioactive, PCBs, or hazardous waste for processing/treatment onsite.

Used Oil and Material Processing Facility Permit Renewal Application

Attachment F: Sludge, Residue, and Byproduct Management

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

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B. Oily Solids/Sludges Destined for Disposal 3

C. Non-Hazardous Solids/Sludges 3

D. Management of Residues 4

Sludge, Residue, and Byproduct Management Plan

A. Oily Solids/Sludges Destined for Recycle

Before Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc., accepts oily solids/sludges from a generator for the first time, a sample of the material is examined to determine whether or not the total halogen content is less than equal to 999 ppm. TESI utilizes SW-846 Method 9077 "Test for Chlorine in New and Used Petroleum Products" and other equivalent method(s) to determine halogen content. If the material contains less than or equal to 999 ppm total halogens, TESI shall accept the material for recycling. After the initial receipt, subsequent used oil from the same generators are tested for halogens using the Tekmate halogen sniffer or other equivalent halogen sniffer. If the halogen sniffer does not detect halogens, the material is accepted. If halogens are detected by the sniffer, the above mentioned test method used of initially is conducted.

If use the used material contains 1,000 ppm or more total halogens, TESI shall forward the sample to a contract laboratory or a permitted hazardous waste facility for analysis by EPA method 8010 or an equivalent method(s) to check for significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents. Significant concentrations of halogenated constituents, as outlined by USEPA, is any single halogenated constituent with a concentration exceeding 100 ppm or the total halogens exceeding 1,000 ppm.

If the used material does not contain significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents; TESI shall accept the material for recycling. If the material does contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall inform the generator that use material must be managed as a hazardous waste and routed through the Triumvirate network of facilities or other permitted hazardous waste facilities.

Documentation of this waste analysis shall be through facility inventory logs and/or Material Profile Form for used oil or oil waste. Logs and profile forms are shown in **Attachment Q "Permit Related Forms"**.

The oily solids/sludges are stored inside containment #3 or containment #8 on **Figure 1 "Facility Site Plan"**.

B. Oily Solids/Sludges Destined for Disposal

Although used oil is commonly recovered from oily solids/sludges, oily solids/sludges may be managed as waste destined for disposal, not recycling. Therefore, these materials, when destined for disposal shall be analyzed for RCRA metals and organics in accordance with the Toxicity Characteristic Leaching Procedure (TCLP) as well as for ignitability and corrosivity, if applicable. If process knowledge is available indicating the nature and/or physical characteristics of the waste, the above mentioned analytical requirements may be reduced. If the material is determined to be hazardous, it shall be managed as a hazardous waste pursuant to Section G of **Attachment E "Waste Analysis Plan"**. The oily solids/sludges are stored inside containment #3 or containment #8 on **Figure 1 "Facility Site Plan"**.

C. Non-Hazardous Solids/Sludges

Non-Hazardous Solids/Sludges shall be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP) as well as for ignitability and corrosivity, if applicable. If

process knowledge is available indicating the nature and/or physical characteristics of the waste, the above mentioned analytical requirements may be reduced.

Documentation of this waste analysis shall be the Material Profile Form, as shown in **Attachment Q "Permit Related Forms"**.

If the waste is determined to be hazardous, refer to Section G of the **Attachment E "Waste Analysis Plan"**, for additional waste analysis information.

The oily solids/sludges are stored inside containment #3 on **Figure 1 "Facility Site Plan"**.

D. Management of Residues

Residues from the processing of used oil are managed in accordance with 40 CFR 279.10(c) and characterized in accordance with TESI's Waste Analysis Plan in **Attachment E**. Non-pumpable, non-recyclable, non-hazardous residues are placed in the permitted solid waste roll-off. Hazardous residues are properly disposed as hazardous waste. Residues are stored inside a roll-off in containment #3 on **Figure 1 "Facility Site Plan"**.

Used Oil and Material Processing Facility Permit Renewal Application

Attachment G: Waste Tracking Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Waste Tracking Plan

Refer to **Attachment Q "Permit Related Forms"** for copies of TESI's used oil manifest and facility inventory log utilized for the receipt of Used Oil and for the Used Oil Fuel Delivery manifest utilized to track the delivery of used oil fuel to various industrial furnaces throughout Florida. Additionally, TESI maintains a used oil recordkeeping form required by FDEP. TESI shall maintain all applicable documentation for a minimum of three years.

Used Oil and Material Processing Facility
Permit Renewal Application

Attachment H: Preparedness and Prevention Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

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Preparedness and Prevention Plan

A. Introduction

This plan demonstrates compliance with the requirements of 40 CFR 279.52(a) and 40 CFR 265.30 through 265.37 (as referenced under rule 62-730.171(2)(b)).

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc. (TEIFL), is a permitted hazardous waste transporter that operates a ten (10) day hazardous waste transfer facility for drummed hazardous waste. Waste stored in the 10-day transfer area is shipped to a permitted hazardous waste treatment, storage, or disposal facility. TESI also operates a used oil processing facility. Below is the facility's location address and EPA ID number.

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, FL 33314
EPA ID No. FLD 981 018 773

B. Maintenance and Operation of Facility (40CFR 265.31)

TESI as owner and operator maintains and operates the facility in a manner that minimizes the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.

C. Required Equipment (40 CFR 265.32)

Refer to **Attachment I "Contingency Plan"** for a list of emergency preparedness and prevention equipment.

TESI shall maintain an alarm system to provide emergency communication and instruction to facility personnel.

TESI shall maintain a telephone and/or hand-held ratio system capable of summoning inside and outside emergency assistance from local police, fire department, hospital, and other local emergency response organizations.

TESI shall maintain an adequate on-site supply of fire extinguishers, fire control equipment, spill equipment, decontamination equipment, and adequate water pressure.

D. Testing and Maintenance of Equipment (40 CFR 265.33)

The facility communications and alarm system, fire protection equipment, spill control equipment, decontamination equipment shall be checked daily for proper operation in time of an emergency. Refer to **Attachment Q "Permit Related Forms"** for a copy of the daily inspection log.

E. Access to Communication or Alarm System (40 CFR 265.34)

All personnel involved in facility operations shall have immediate access to the alarm and communications system through visual or voice contact with other employees. Facility operations shall be conducted with a minimum of one employee onsite.

F. Required Aisle Space (40 CFR 265.35)

Adequate aisle space is maintained between every two adjacent rows of drums to facility access to the drum in case of a spill or emergency.

G. Arrangements with Local Authorities (40 CFR 265.37)

A copy of the facility's contingency plan and emergency procedures is sent to the local fire department, police, hospital, or any other local agency who is called upon for assistance in case of an emergency at the facility. Each agency is invited to visit the facility to familiarize the agency of the facility operations and emergency procedures.

Details of the local authorities associated with the site are contained in **Attachment I "Contingency Plan"**.

Used Oil and Material Processing Facility Permit Renewal Application

Attachment I: Contingency Plan & Emergency Procedures

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

Last Reviewed On:

12 August 2022
(Revision 10)

Prepared by:

Randy Troy
Environmental, Transportation, Safety, & Compliance Specialist
Triumvirate Environmental Services, Inc.

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1.0 Introduction

1.1 Purpose

The purpose of this plan is to minimize hazards to human health and the environment from fire, explosion, and/or any unplanned sudden release of hazardous materials or waste to the environment. This plan is to be implemented immediately whenever there is a fire, explosion, and/or sudden release of material / waste that could threaten human health and/or the environment.

This document establishes a Contingency Plan and Emergency procedures that complies with the following permits and licenses.

a. FDEP Hazardous Waste Transporter/Transfer Facility No. FLD 981 018 773
b. FDEP Used Oil / Solid Waste Processing Facility No. 77390-HO-007
c. BCEPD Hazardous Materials Storage Facility No. ST-00055-10
d. BCEPD Hazardous Materials Transfer Facility No. HTS-0055-11-01

1.2 Scope

This contingency plan and emergency procedures was developed in accordance with:

Code of Federal Regulations:	40 CFR 262.34, 264.52, 265.52
Florida Administrative Code:	62-730.171(2)(a) [40 CFR 265 Subpart C&D]
Broward County Codes:	27-306(b)(8), 27-368(c)(4)(e), 27-368(d)(3)(f)

1.3 Responsibilities

The General Manager or his designee is responsible for modifying this plan, as needed, to reflect changes in facility operations and/or county, state, or federal regulations. The General Manager or his/her designee is responsible for the implementation of this plan in the event of an emergency and/or accidental release of material/waste. The General Manager is responsible for ensuring that all employees are familiar with the content of this plan and are able to implement it, if needed.

The General Manager is responsible for ensuring that this plan is posted and accessible to all employees. In the absence of the General Manager, the Operations Manager is responsible for implementing the plan in the event of an emergency and/or accidental release of material / waste.

All plant employees are responsible for reading, understanding, and implementing this plan in the event of an emergency and/or accidental release of material / waste.

2.0 General Information

Facility Name: Triumvirate Environmental Services, Inc. (TESI)

Facility Location: 3670 SW 47th Avenue
Davie, FL 33314

Office Address: 3701 SW 47th Avenue, Suite 109
Davie, FL 33314

EPA ID Number: FLD 981 018 773

Facility Activities: Used Oil / Solid Waste Processing, 10 Day Hazardous Waste Transfer Facility, Biomedical Waste Storage Facility

3.0 Implementation of Contingency Plan

The provisions of this plan will be carried out immediately whenever there is a fire, explosion, or sudden release of hazardous material / waste to the environment.

4.0 Arrangement with Local Emergency Response Agencies

Arrangements with local authorities have been established by providing the Davie Police Department, Davie Fire Department, Plantation General Hospital, and Broward General Hospital with a copy of this plan and a letter requesting their assistance in the event of an emergency. Refer to Appendix A for a copy of all correspondences. In the event of a revision of this plan, a copy will be submitted to the above referenced agencies.

5.0 Copies of the Contingency Plan

A copy of the Contingency Plan and all associated revisions will be maintained at the facility and the office. A copy of the plan will be submitted to the Davie Police Department, Davie Fire Department, Plantation General Hospital, and Broward General Hospital. Additional copies of this plan are available from the General Manager.

6.0 Amendments to Contingency Plan

This plan will be revised, if necessary, whenever:

a. Applicable ordinances or regulations are revised;
b. The plan fails in an emergency;
c. The facility changes in a manner that materially increases the potential for fires, explosions, or the release of hazardous materials / waste, or changes the response necessary in an emergency,
d. The Emergency Coordinators change,
e. The list of emergency equipment changes.

In the event of revisions to this plan, a revised copy will be submitted to the authorities identified in Section 4.0. A revised copy of this plan will also be maintained at the facility and office.

7.0 Emergency Coordinators

The following identifies the facility's primary and alternate emergency coordinators (EC):

Primary: John P. "Shawn" Lennon, Jr.
General Manager
(954) 583-3795 (office)
(954) 296-3873 (cell/Home)

Work - 3670 S.W. 47th Avenue, Davie, FL 33314

Alternate: Ryan Mohansingh
Operations Manager
(954) 583-3795 (office)
(954) 607-3204 (cell/Home)

Work - 3701 S.W. 47th Avenue, Suite 109, Davie, FL 33314

At all times, there will be at least one EC either at the facility or on call who is available to respond to an emergency by reaching the facility within a short period of time (1 hour drive) and has the responsibility of coordinating all emergency response activities. The EC will be familiar with all aspects of this plan, all operations, and activities at the facility, the location and characteristics of the waste handled, the location of all records within the facility, and the facility layout. Additionally, the EC has the authority to commit the resources needed to carry out this plan.

8.0 Emergency Procedures

8.1 Identifying Releases and Hazards

Whenever there is a release, fire, or explosion, the EC will immediately identify the characteristics, exact source, amount, and a real extent of any released material / waste. The EC will do this by observation or review of facility records/manifests and, if necessary, by chemical analyses.

Concurrently, the EC will assess possible hazards to human health or the environment that may result from a release, fire, or explosion. This assessment will consider both direct and indirect effects of a release, fire, or explosion such as toxic gases, or the effect of any hazardous surface water runoff from water or chemical agents used to control the situation.

8.2 Notification and Reporting

Whenever there is an imminent or actual emergency, the EC or his designee, will immediately activate the facility communication system and notify all facility personnel. The facility communication system includes a telephone, a two-way radio system, and horn signals. The EC will also notify the following agencies as indicated:

a) Town of Davie Fire Department via 911 **(Immediately)**
b) DPEP via 954/765-4900 **(within 24 hours)**
c) Florida Dept. of Environmental Protection via 561/681-6600
    i. **(within 24 hours)**
d) Florida Division of Emergency Management (or Florida State Warning Point) via 850/413-9911 or 800/320-0519 **(within 24 hours)**

Notification of additional local authorities listed in Appendix B may be conducted, as deemed necessary by the EC.

If the EC determined that the facility has had a release, fire, or explosion which could threaten human health or the environment outside the facility boundaries, he will report his findings as follows:

a. If the EC's assessment indicated that the evacuation of the local area may be advisable, he will notify the local authorities identified above. Additional assistance from local authorities listed in Appendix B may be obtained as deemed necessary by the EC. The EC will be available to assist local authorities in deciding whether evacuation of the immediate area is needed.

b. The EC will immediately notify the National Response Center at 800/424-8802 and report the following information:

i) Name and telephone number;
ii) Name and address of facility;
iii) Time and type of accident;
iv) Name and quantity of material involved and to the extent known;
v) Possible hazards to human health and the environment, outside the facility boundaries.

8.3 Emergency Procedures

During an emergency, the EC will take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, or spread to other hazardous material / waste at the facility. These measures may include stopping operation, collecting and containing released material / waste, and removing or isolating containers. If the facility stops operating, the EC will monitor for leaks, pressure build up, or rupture in valves, pipes, etc…

After an emergency, the EC will provide for treatment, storage, and disposal of recovered material / waste including contaminated soil, water, or other material. The treatment, storage, and disposal of recovered material / waste will be conducted in accordance with applicable local, state, and federal regulations. Waste management companies utilized in the treatment, storage, and disposal of recovered material / waste will be chosen at the EC's discretion. The EC will ensure that, in the affected areas of the facility, no material/waste is incompatible with the released materials until clean-up procedures are completed. All emergency equipment listed in this plan (Appendix C) will be cleaned, if necessary, and fit for its intended use before operations are resumed.

8.4 Emergency Equipment

A list of emergency equipment available on site is contained in Appendix C.

8.5 Evacuation of Facility

The EC is responsible for determining which emergencies require evacuation. The EC may deviate from the evacuation procedures identified below if necessary to bring the situation under control. An evacuation route map and a site location map are illustrated in Appendix D and E respectively. In the event of a plant evacuation, the following steps will be taken:

a. The signal for evacuation will be given which consists of three long blasts of the air horn. The two-way radio system will be used to notify/divert incoming drivers.
b. All vehicle traffic within the Plant will cease. Visitors, contractors, and customers will no longer be allowed in the facility.
c. All personnel, visitors, contractors, and customers will immediately leave through the main gate.
d. No persons will be allowed to enter the plant without authorization from the EC and senior fire department representative.
e. All persons evacuating the plant will assemble southwest of the plant on the west side of SW 47th Avenue at a point chosen by the EC. The assembly point will be within the vicinity of the location identified on the evacuation route map. (Appendix D).
f. The EC will conduct a head count to confirm that all persons within the facility are present. Any person not accounted for will be immediately reported to the senior fire department representative.
g. After the emergency, no personnel will be allowed to re-enter the plant until authorization is obtained from the senior fire department representative and the EC.

9.0 Recordkeeping

The EC will submit a written closure plan to the Broward County Department of Planning and Environmental Protection within 5 days of the incident.

The EC will notify the Florida Department of Environmental Protection in writing before operations resume:

a. In the affected area(s) of the facility, no material/waste is incompatible with the released material, and
b. All emergency equipment listed in this plan is clean and fit for its intended use.

The EC will document in the facility's operating record the time, date, and details of any incident that required the implementation of this plan. Within 15 days after the incident, the EC will submit a written report on the incident to the Florida Department of Environmental protection. The report will include the following information:

a. Name, address, and telephone number of the owner/operator.
b. Name, address, and telephone number of the facility,
c. Date, time, and type of incident,
d. Name and quantity of materials involved,
e. The extent of injuries, if any,

f. An assessment of actual or potential hazards to human health and the environment, if any,
g. Estimated quantity and disposition of recovered material resulting from the incident.

Appendix A

Correspondence with Local Authorities

Appendix B

Emergency Contact List

Phone Numbers of Local Authorities, Agencies, Etc.

Local Authority / Agency	Phone Numbers	Contact Period
Davie Fire Department Non-Emergency Number	911 (954) 797-1213	Immediately
Davie Police Department Non -Emergency Number	911 (954) 693-8200	Immediately
Emergency Medical Service	911	As Needed
Broward County Environmental Protection and Growth Management Department	(954) 519-1260	Within 24 hours
Florida Department of Environmental Protection – Southeast District Office	(561) 681-6600	Within 24 hours
Florida Division of Emergency Management (aka Florida State Warning Point)	(850) 413-9911 (800) 320-0519	Within 24 hours
National Response Center	(800) 424-8802	As Needed
Plantation General Hospital (Primary)	(954) 587-5010	As Needed
Broward General Hospital (2ndary)	(954) 355-4400	As Needed
Primary Emergency Coordinator John P. “Shawn” Lennon, Jr. General Manager Address: 9140 SW 49 St., Cooper City, FL. 33328	(954) 583-3795 (office) (954) 296-3873 (cell)	
Alternate Emergency Coordinator Ryan Mohansingh Operations Manager Address: 6240 NW 41st Ter. Coconut Creek, FL 33073	(954) 583-3795 (office) (954) 607-3204 (cell)	
Outside Cleanup Contractor: US Ecology 6900 NW 12th Ave Fort Lauderdale, FL 33309	(954) 957-7271	As Needed

Appendix C

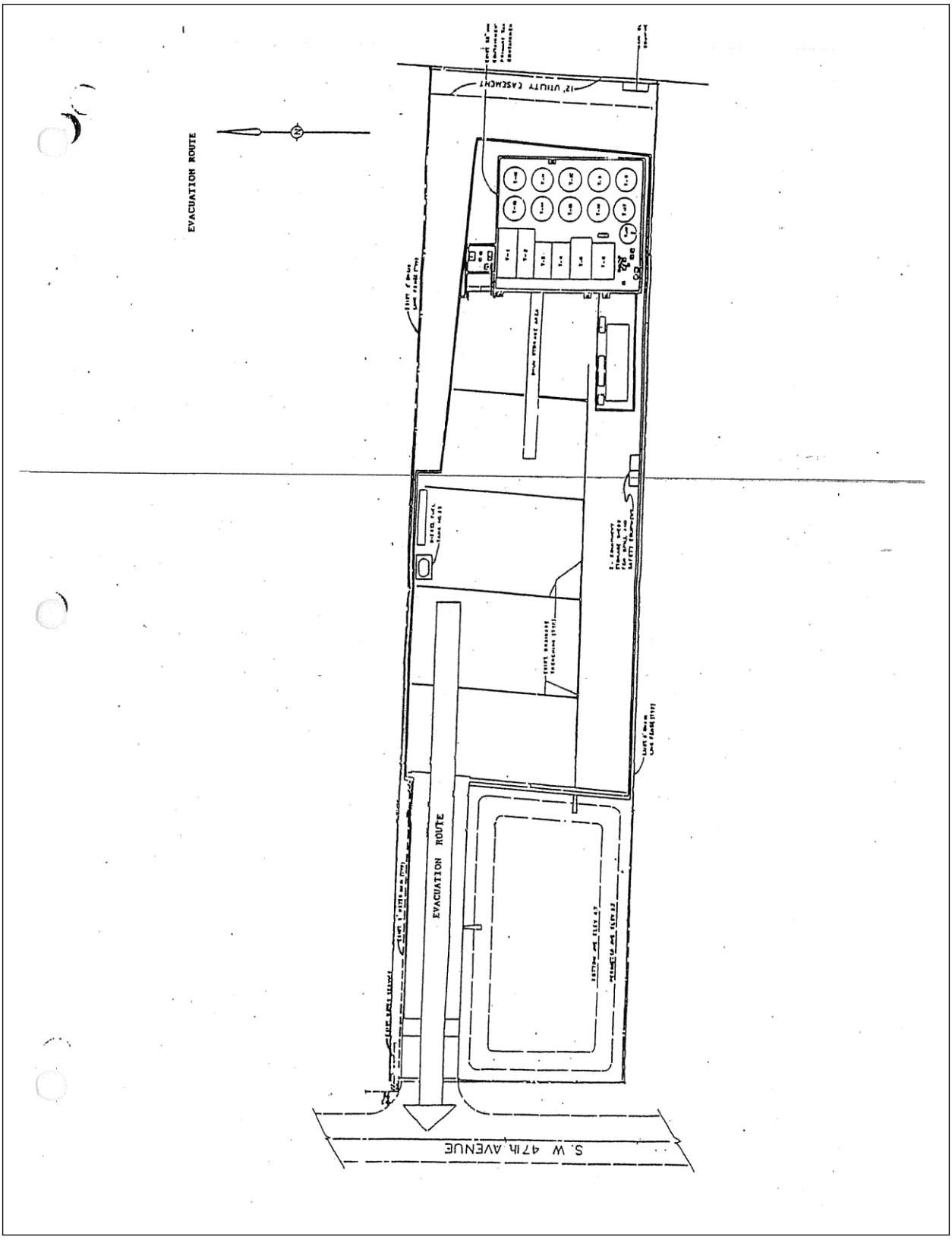
Facility Emergency Equipment

Equipment	Quantity	Type	Capabilities
Communication System	2	Telephone, Radio	Call Emergency Responders/Numbers. Alert workers
Fire Alarm	1	Horn	Warn in case of Fire
Fire Hydrants	1	Water	Put out fire
Fire Extinguisher	9	ABC (dry chemical)	Put out fire
Safety Shower	1	Water	Clean in case of emergency
Eye Wash	2	Water	Clean in case of emergency
Respirators	2	Full face with cartridges	Purify air
Spill Pads	1 roll	Synthetic	Clean up spill
Spill Kits	7 drums	Clay	Clean up spill
Empty Drums	25 to 100	1A1 Steel	Clean up spill, store material
Spill Pumps	2	Diaphragm	Pump up material
First Aid Kits	1	Industrial	Provide First AID
Pressure Washer	2	2,500 psi	Clean up area/spill

Refer to the enclosed referenced facility map for the location of the above referenced equipment.

Appendix D

Evacuation Route Map


EVACUATION ROUTE
EVACUATION ROUTE
S. W 47th AVENUE

Appendix E

Site Location Map
&
Site Layout Photograph

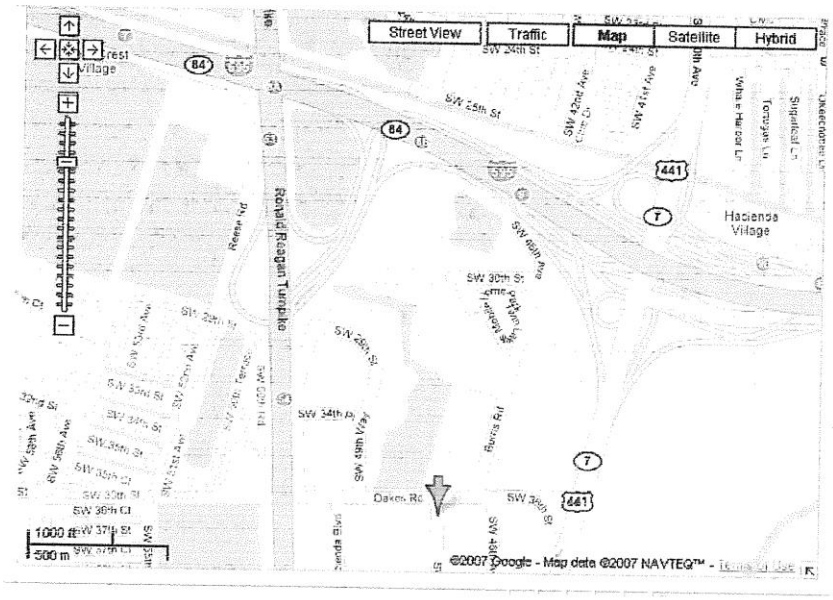


Figure 1A – Site Location Map

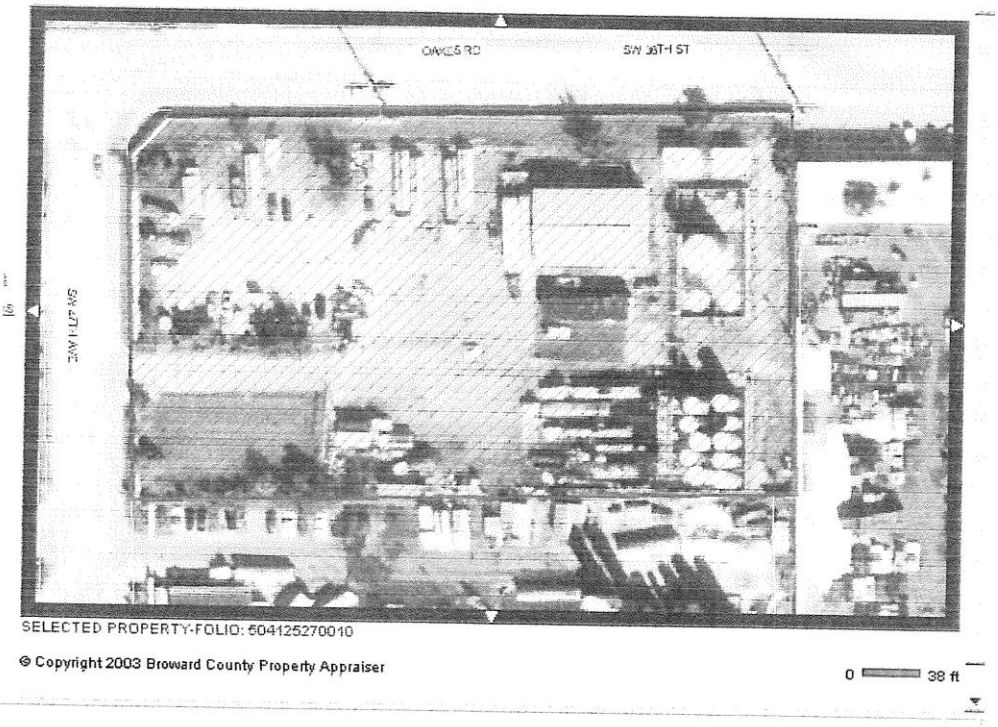


Figure 1B – Site Layout Photo

Appendix F

Material Inventory List

Product	Time On-Site	Average Quantity
No. 5 Fuel Oil	Continuous	50,000 gallons
No. 2 Fuel Oil	Continuous	8,000 gallons
Diesel Fuel	Continuous	1,000 gallons
Paint & Paint Thinners	10 Days or Less	1,500 gallons

Note: Refer to attached material safety data sheet for information about the above referenced products.

Appendix G

Material Safety Data Sheets

HESS

MATERIAL SAFETY DATA SHEET

No. 5 Fuel Oil **MSDS No. 0332**

EMERGENCY OVERVIEW
CAUTION!
COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT
EFFECTS CENTRAL NERVOUS SYSTEM
HARMFUL OR FATAL IF SWALLOWED

NFPA 704 (Section

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation. Long-term, repeated exposure may cause skin cancer. If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

1. CHEMICAL PRODUCT and COMPANY INFORMATION

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs): **CHEMTREC (800) 424-9300**
COMPANY CONTACT (business hours): Corporate EHS (732) 750-6000
MSDS Internet Website: www.hess.com

SYNONYMS: #5 Fuel Oil; 5 Oil; High and Low Sulfur No. 5 Fuel Oil

See Section 16 for abbreviations and acronyms.

2. COMPOSITION and INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS No.)	CONCENTRATION PERCENT BY WEIGHT
Fuel Oil, Residual (68476-33-5)	100

A complex combination of heavy (high boiling point) petroleum hydrocarbons. The amount of sulfur varies with product specification and does not affect the health and safety properties as outlined in this Material Safety Data Sheet.

3. HAZARDS IDENTIFICATION

EYES
Contact with eyes may cause mild to moderate irritation.

SKIN
May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following acute (single) exposure. May cause dermal sensitization.

INGESTION
This material has a low order of acute toxicity. If large quantities are ingested, nausea, vomiting and diarrhea may result. Ingestion may also cause effects similar to inhalation of the product. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

INHALATION
Because of its low vapor pressure, this product presents a minimal inhalation hazard at ambient temperature. Upon heating, fumes may be evolved. Inhalation of fumes or mist may result in respiratory tract irritation and central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

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containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

WORK/HYGIENIC PRACTICES
Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use gasoline or solvents (naphtha, kerosene, etc.) for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

OTHER/GENERAL PROTECTION
Petroleum industry experience indicates that a program providing for good personal hygiene, proper use of personal protective equipment, and minimizing the repeated and prolonged exposure to liquids and fumes, as outlined in this MSDS, is effective in reducing or eliminating the carcinogenic risk of high boiling aromatic oils (polynuclear aromatic hydrocarbons) to humans.

FUEL OIL ASH PRODUCTS
Personnel exposed to ash should wear appropriate protective clothing (example, DuPont Tyvek ®), wash skin thoroughly, launder contaminated clothing separately, and wear respiratory protection approved for use against toxic metal dusts (such as HEPA filter cartridges). Wetted-down combustion ash may evolve toxic hydrogen sulfide (H_2S) - confined spaces should be tested for H_2S prior to entry if ash is wetted.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

EXPOSURE LIMITS

Components (CAS No.)	Source	Exposure Limits TWA/STEL	Note
Fuel Oil (68476-33-5)	OSHA	5 mg/m^3 (as mineral oil mist) TWA	
	ACGIH	0.2 mg/m^3 (as mineral oil) TWA	A2, skin

ENGINEERING CONTROLS
Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION
Safety glasses or goggles are recommended where there is a possibility of splashing or spraying

SKIN PROTECTION
Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont Tyvek QC®, Saranex®, TyChem® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information

RESPIRATORY PROTECTION
A NIOSH/ MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE
Black, viscous liquid

ODOR
Heavy, petroleum/asphalt-type odor

BASIC PHYSICAL PROPERTIES

BOILING RANGE:	370-700 °F (188-371 °C)
VAPOR PRESSURE:	<0.004 mm Hg @ 70 °F (21 °C)
VAPOR DENSITY (air = 1):	NA
SPECIFIC GRAVITY (H_2O = 1):	0.887 – 0.9725 (API 28.0 – 14.0)
PERCENT VOLATILES:	Negligible
EVAPORATION RATE:	Negligible
SOLUBILITY (H_2O):	Negligible

10. STABILITY and REACTIVITY

STABILITY: Stable. Hazardous polymerization will not occur

CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS
Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY
Based on No. 6 Fuel Oil (a similar product):
Acute dermal LD50 (rabbits): > 5 ml/kg
Acute oral LD50 (rats): 5.1 ml/kg
Primary dermal irritation: slightly irritating (rabbits)
Draize eye irritation: mildly irritating (rabbits)
Guinea pig sensitization: mildly sensitizing

CHRONIC EFFECTS AND CARCINOGENICITY
Carcinogenicity: **OSHA:** NO **IARC:** 2B (animal) **NTP:** YES **ACGIH:** A2

This material contains polynuclear aromatic hydrocarbons (PNAs), some of which are animal carcinogens. Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

The presence of carcinogenic PNAs indicates that precautions should be taken to minimize repeated and prolonged inhalation of fumes or mists.

MUTAGENICITY (genetic effects)
Materials of similar composition have been positive in mutagenicity studies.

MATERIAL SAFETY DATA SHEET

No. 5 Fuel Oil **MSDS No. 0332**

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage and waterways. Report spills and releases, as applicable, under Federal and State regulations.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options. Combustion ash may be a characteristic hazardous waste.

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Fuel Oil, No. 5	Placard:
HAZARD CLASS and PACKING GROUP:	3, PG III	
DOT IDENTIFICATION NUMBER:	NA 1993	
DOT SHIPPING LABEL:	Flammable liquid	

May be reclassified for transportation as a COMBUSTIBLE LIQUID under the conditions of DOT 49 CFR 173.120(b)(2).

15. REGULATORY INFORMATION

U.S. FEDERAL, STATE and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow-up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

ACUTE HEALTH	CHRONIC HEALTH	FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVE
X	X	X	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

According to the US EPA guidance documents for reporting Persistent Bioaccumulating Toxics (PBTs), this product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372 (US EPA does not provide data on No 5 Fuel Oil which is a blend of 6 oil and 2 oil – the following are estimates based on typical blend ratios):

INGREDIENT NAME (CAS NUMBER)	CONCENTRATION [PARTS PER MILLION (PPM) BY WEIGHT]
Polycyclic aromatic compounds (PACs) Benzo (g,h,i) perylene (191-24-2)	1562
	16.8
Lead (7439-92-1)	0.65
Mercury (7439-97-6)	0.00079
Vanadium (7440-62-2)	2.33
Polychlorinated biphenyls (PCBs)	Though EPA estimates 10% of the residual fuel oil "pool" may have < 50 ppm PCBs (Ref 2), AHC has no reason to believe there are any PCBs in its residual fuel oil products.

CALIFORNIA PROPOSITON 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

INGREDIENT NAME (CAS NUMBER)	Date Listed
Residual Fuel Oil (no CAS Number listed)	10/01/1990

CANADIAN REGULATORY INFORMATION (WHMIS)

Class B, Division 3 (Combustible Liquid)

16. OTHER INFORMATION

NFPA® HAZARD RATING	HEALTH:	0	
	FIRE:	2	
	REACTIVITY:	0	

Refer to NFPA 704 "Identification of the Fire Hazards of Materials" for further information

HMIS® HAZARD RATING	HEALTH:	1*	Slight
	FIRE:	2	Moderate
	PHYSICAL:	0	Negligible
			*Chronic

SUPERSEDES MSDS DATED: 02/28/01

ABBREVIATIONS:

AP = Approximately	< = Less than	> = Greater than
N/A = Not Applicable	N/D = Not Determined	ppm = parts per million

ACRONYMS:

ACGIH	American Conference of Governmental Industrial Hygienists	HMIS	Hazardous Materials Information System
AIHA	American Industrial Hygiene Association	IARC	International Agency For Research On Cancer
ANSI	American National Standards Institute (212)642-4900	MSHA	Mine Safety and Health Administration
API	American Petroleum Institute (202)682-8000	NFPA	National Fire Protection Association (617)770-3000
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act	NIOSH	National Institute of Occupational Safety and Health
DOT	U.S. Department of Transportation [General info: (800)467-4922]	NOIC	Notice of Intended Change (proposed change to ACGIH TLV)
EPA	U.S. Environmental Protection Agency	NTP	National Toxicology Program
		OPA	Oil Pollution Act of 1990

MATERIAL SAFETY DATA SHEET

No. 5 Fuel Oil **MSDS No. 0332**

OSHA	U.S. Occupational Safety & Health Administration	STEL	Short-Term Exposure Limit (generally 15 minutes)
PEL	Permissible Exposure Limit (OSHA)	TLV	Threshold Limit Value (ACGIH)
RCRA	Resource Conservation and Recovery Act	TSCA	Toxic Substances Control Act
		TWA	Time Weighted Average (8 hr.)
REL	Recommended Exposure Limit (NIOSH)	WEEL	Workplace Environmental Exposure Level (AIHA)
SARA	Superfund Amendments and Reauthorization Act of 1986 Title III	WHMIS	Canadian Workplace Hazardous Materials Information System
SCBA	Self-Contained Breathing Apparatus		
SPCC	Spill Prevention, Control, and Countermeasures		

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

MATERIAL SAFETY DATA SHEET

No. 2 Fuel Oil **MSDS No. 0088**

EMERGENCY OVERVIEW
CAUTION!
OSHA/NFPA COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT - EFFECTS CENTRAL NERVOUS SYSTEM - HARMFUL OR FATAL IF SWALLOWED

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation. Long-term, repeated exposure may cause skin cancer.

If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

NFPA 704 (Section 16)

1. CHEMICAL PRODUCT and COMPANY INFORMATION

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs): **CHEMTREC (800) 424-9300**
COMPANY CONTACT (business hours): Corporate EHS (732) 750-6000
MSDS Internet Website: www.hess.com

SYNONYMS: #2 Heating Oil; 2 Oil; Off-road Diesel Fuel

See Section 16 for abbreviations and acronyms.

2. COMPOSITION and INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS No.)	CONCENTRATION PERCENT BY WEIGHT
#2 Fuel Oil (68476-30-2)	100
Naphthalene (91-20-3)	Typically 0.1

A complex combination of hydrocarbons with carbon numbers in the range C9 and higher produced from the distillation of petroleum crude oil.

3. HAZARDS IDENTIFICATION

EYES
Contact with eyes may cause mild irritation.

SKIN
Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

INGESTION
The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

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Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

INHALATION
Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY
Similar products have produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological Information.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

4. FIRST AID MEASURES

EYES
In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

SKIN
Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION
DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

INHALATION
Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT:	100 °F (38 °C) minimum PMCC
AUTOIGNITION POINT:	494 °F (257 °C)
LOWER EXPLOSIVE LIMIT (%):	0.6
UPPER EXPLOSIVE LIMIT (%):	7.5

FIRE AND EXPLOSION HAZARDS
OSHA and NFPA Class 2 COMBUSTIBLE LIQUID (see Section 14 for transportation classification). Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

EXTINGUISHING MEDIA

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or Halon.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

FIRE FIGHTING INSTRUCTIONS

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

6. ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY'S SPILL CONTINGENCY OR EMERGENCY RESPONSE PLAN.

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

7. HANDLING and STORAGE

HANDLING PRECAUTIONS

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when this product is loaded into tanks previously containing low flash point products (such as gasoline) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

STORAGE PRECAUTIONS
Keep containers closed and clearly labeled. Use approved vented storage containers. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

WORK/HYGIENIC PRACTICES
Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

EXPOSURE LIMITS

Components (CAS No.)	Source	Exposure Limits TWA/STEL	Note
#2 Fuel Oil (68476-30-2)	OSHA	5 mg/m^3 (as mineral oil mist) TWA	
	ACGIH	0.2 mg/m^3 (as mineral oil) TWA	A2, skin
Naphthalene (91-20-3)	OSHA	10 ppm TWA	
	ACGIH	10 ppm TWA / 15 ppm STEL	A4, Skin

ENGINEERING CONTROLS
Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION
Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

SKIN PROTECTION
Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

RESPIRATORY PROTECTION
A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE
Red or reddish/orange colored (dyed) liquid

ODOR
Mild, petroleum distillate odor

BASIC PHYSICAL PROPERTIES

BOILING RANGE:	340 to 700 °F (171 to 371 °C)
VAPOR PRESSURE:	0.009 psia @ 70 °F (21 °C)
VAPOR DENSITY (air = 1):	> 1.0
SPECIFIC GRAVITY (H_2O = 1):	AP 0.87
PERCENT VOLATILES:	100 %
EVAPORATION RATE:	Slow; varies with conditions
SOLUBILITY (H_2O):	Negligible

10. STABILITY and REACTIVITY

STABILITY: Stable. Hazardous polymerization will not occur

CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS
Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers; Viton ®; Fluorel ®

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY
Acute Oral LD50 (rat): 14.5 ml/kg
Acute Dermal LD50 (rabbit): > 5 ml/kg
Guinea Pig Sensitization: negative
Primary dermal irritation: moderately irritating (Draize mean irritation score - 3.98 rabbits)
Draize eye irritation: mildly irritating (Draize score, 48 hours, unwashed - 2.0 rabbits)

CHRONIC EFFECTS AND CARCINOGENICITY
Carcinogenic: IARC: NO NTP: NO OSHA: NO ACGIH: A2
Dermal carcinogenicity: positive - mice

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

This product is similar to Diesel Fuel. IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A) and NIOSH regards it as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

MUTAGENICITY (genetic effects)
Material of similar composition has been positive in a mutagenicity study.

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options.

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	FUEL OIL, NO. 2	Placard:
HAZARD CLASS & PACKING GROUP:	3, PG III	
DOT IDENTIFICATION NUMBER:	NA 1993	
DOT SHIPPING LABEL:	FLAMMABLE LIQUID	

May be reclassified for transportation as a COMBUSTIBLE LIQUID under conditions of DOT 49 CFR 173.120(b)(2).

15. REGULATORY INFORMATION

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

ACUTE HEALTH	CHRONIC HEALTH	FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVE
X	X	X	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product may contain listed chemicals below the *de minimis* levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372. If you may be required to report releases of chemicals listed in 40 CFR 372.28, you may contact Hess Corporate Safety if you require additional information regarding this product.

CALIFORNIA PROPOSITON 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

INGREDIENT NAME (CAS NUMBER)	Date Listed
Residual Fuel Oil (no CAS Number listed)	10/01/1990

CANADIAN REGULATORY INFORMATION (WHMIS)

MATERIAL SAFETY DATA SHEET

No. 2 Fuel Oil **MSDS No. 0088**

Class B, Division 3(Combustible Liquid); Class D, Division 2, Subdivision B (Toxic by other means)

NFPA® HAZARD RATING		
	HEALTH:	0
	FIRE:	2
	REACTIVITY:	0

Refer to NFPA 704 "Identification of the Fire Hazards of Materials" for further information

HMIS® HAZARD RATING			
	HEALTH:	1 *	Slight
	FIRE:	2	Moderate
	PHYSICAL:	0	Negligible
			* Chronic

SUPERSEDES MSDS DATED: 05/24/02

ABBREVIATIONS:

AP = Approximately < = Less than > = Greater than
N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
AIHA	American Industrial Hygiene Association	OPA	Oil Pollution Act of 1990
ANSI	American National Standards Institute (212) 642-4900	OSHA	U.S. Occupational Safety & Health Administration
API	American Petroleum Institute (202) 682-8000	PEL	Permissible Exposure Limit (OSHA)
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation [General info: (800) 467-4922]	REL	Recommended Exposure Limit (NIOSH)
EPA	U.S. Environmental Protection Agency	SARA	Superfund Amendments and Reauthorization Act of 1986 Title III
HMIS	Hazardous Materials Information System	SCBA	Self-Contained Breathing Apparatus
IARC	International Agency For Research On Cancer	SPCC	Spill Prevention, Control, and Countermeasures
MSHA	Mine Safety and Health Administration	STEL	Short-Term Exposure Limit (generally 15 minutes)
NFPA	National Fire Protection Association (617) 770-3000	TLV	Threshold Limit Value (ACGIH)
NIOSH	National Institute of Occupational Safety and Health	TSCA	Toxic Substances Control Act
NOIC	Notice of Intended Change (proposed change to ACGIH TLV)	TWA	Time Weighted Average (8 hr.)
		WEEL	Workplace Environmental Exposure Level (AIHA)
		WHMIS	Canadian Workplace Hazardous Materials Information System

Revision Date: 7/1/2006

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No. 9909

EMERGENCY OVERVIEW
CAUTION!
OSHA/NFPA COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT
EFFECTS CENTRAL NERVOUS SYSTEM
HARMFUL OR FATAL IF SWALLOWED
Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation (rash). Long-term, repeated exposure may cause skin cancer.
If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).
NFPA 704 (Section 16)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs): **CHEMTREC (800) 424-9300**
COMPANY CONTACT (business hours): Corporate Safety (732) 750-6000
MSDS INTERNET WEBSITE: www.hess.com (See Environment, Health, Safety & Social Responsibility)

SYNONYMS: Ultra Low Sulfur Diesel (ULSD); Low Sulfur Diesel; Motor Vehicle Diesel Fuel; Diesel Fuel #2; Dyed Diesel Fuel; Non-Road, Locomotive and Marine Diesel Fuel; Tax-exempt Diesel Fuel
See Section 16 for abbreviations and acronyms.

2. COMPOSITION and CHEMICAL INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS No.) CONCENTRATION PERCENT BY WEIGHT
Diesel Fuel (68476-34-6) 100
Naphthalene (91-20-3) Typically < 0.01
A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher. Diesel fuel may be dyed (red) for tax purposes. May contain a multifunctional additive.

3. HAZARDS IDENTIFICATION

EYES
Contact with liquid or vapor may cause mild irritation.

SKIN
May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following acute (single) exposure. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

INGESTION
The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

INHALATION
Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY
Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological Information.
IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A). NIOSH regards whole diesel fuel exhaust particulates as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

4. FIRST AID MEASURES

EYES
In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

SKIN
Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION
DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

INHALATION
Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:
FLASH POINT: > 125 ^{o}F (> 52 ^{o}C) minimum PMCC

AUTOIGNITION POINT: 494 ^{o}F (257 ^{o}C)
OSHA/NFPA FLAMMABILITY CLASS: 2 (COMBUSTIBLE)
LOWER EXPLOSIVE LIMIT (%): 0.6
UPPER EXPLOSIVE LIMIT (%): 7.5

FIRE AND EXPLOSION HAZARDS
Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

EXTINGUISHING MEDIA
SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or Halon.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

FIRE FIGHTING INSTRUCTIONS
Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.
Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.
Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.
See Section 16 for the NFPA 704 Hazard Rating.

6. ACCIDENTAL RELEASE MEASURES
ACTIVATE FACILITY'S SPILL CONTINGENCY OR EMERGENCY RESPONSE PLAN.
Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.
Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.
Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment

(see Section 8).

7. HANDLING and STORAGE

HANDLING PRECAUTIONS

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.
Diesel fuel, and in particular low and ultra low sulfur diesel fuel, has the capability of accumulating a static electrical charge of sufficient energy to cause a fire/explosion in the presence of lower flashpoint products such as gasoline. The accumulation of such a static charge occurs as the diesel flows through pipelines, filters, nozzles and various work tasks such as tank/container filling, splash loading, tank cleaning; product sampling; tank gauging; cleaning, mixing, vacuum truck operations, switch loading, and product agitation. There is a greater potential for static charge accumulation in cold temperature, low humidity conditions.
Documents such as 29 CFR OSHA 1910.106 "Flammable and Combustible Liquids, NFPA 77 Recommended Practice on Static Electricity, API 2003 "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents and ASTM D4865 "Standard Guide for Generation and Dissipation of Static

Electricity in Petroleum Fuel Systems" address special precautions and design requirements involving loading rates, grounding, bonding, filter installation, conductivity additives and especially the hazards associated with "switch loading." ["Switch Loading" is when a higher flash point product (such as diesel) is loaded into tanks previously containing a low flash point product (such as gasoline) and the electrical charge generated during loading of the diesel results in a static ignition of the vapor from the previous cargo (gasoline).]
Note: When conductivity additives are used or are necessary the product should achieve 25 picosiemens/meter or greater at the handling temperature.

STORAGE PRECAUTIONS

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition. Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

WORK/HYGIENIC PRACTICES

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

EXPOSURE LIMITS

Exposure Limits
Components (CAS No.) Source TWA/STEL Note
Diesel Fuel: (68476-34-6)
OSHA
ACGIH
5 mg/m, as mineral oil mist
100 mg/m3 (as totally hydrocarbon vapor) TWA A3, skin
Naphthalene (91-20-3)
OSHA
ACGIH
10 ppm TWA
10 ppm TWA / 15 ppm STEL A4, Skin

ENGINEERING CONTROLS

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

SKIN PROTECTION

Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

RESPIRATORY PROTECTION

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.
Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE

Clear, straw-yellow liquid. Dyed fuel oil will be red or reddish-colored.

ODOR

Mild, petroleum distillate odor

BASIC PHYSICAL PROPERTIES

BOILING RANGE: 320 to 690 oF (160 to 366 oC)
VAPOR PRESSURE: 0.009 psia @ 70 oF (21 oC)

VAPOR DENSITY (air = 1): > 1.0
SPECIFIC GRAVITY (H_2O = 1): 0.83 to 0.88 @ 60 ^oF (16 ^oC)
PERCENT VOLATILES: 100 %
EVAPORATION RATE: Slow; varies with conditions
SOLUBILITY (H_2O): Negligible

10. STABILITY and REACTIVITY

STABILITY: Stable. Hazardous polymerization will not occur.

CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers; Viton ®; Fluorel ®

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY

Acute dermal LD50 (rabbits): > 5 ml/kg Acute oral LD50 (rats): 9 ml/kg
Primary dermal irritation: extremely irritating (rabbits) Draize eye irritation: non-irritating (rabbits)
Guinea pig sensitization: negative

CHRONIC EFFECTS AND CARCINOGENICITY

Carcinogenic: OSHA: NO IARC: NO NTP: NO ACGIH: A3
Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

MUTAGENICITY (genetic effects)

This material has been positive in a mutagenicity study.

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options.

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Diesel Fuel Placard (International Only):
HAZARD CLASS and PACKING GROUP: 3, PG III
DOT IDENTIFICATION NUMBER: NA 1993 (Domestic)
UN 1202 (International)
DOT SHIPPING LABEL: None
Use Combustible Placard if
shipping in bulk domestically

15. REGULATORY INFORMATION

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a “petroleum exclusion” clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

ACUTE HEALTH CHRONIC HEALTH FIRE SUDDEN RELEASE OF PRESSURE REACTIVE

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product may contain listed chemicals below the *de minimis* levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372. If you may be required to report releases of chemicals listed in 40 CFR 372.28, you may contact Hess Corporate Safety if you require additional information regarding this product.

CALIFORNIA PROPOSITON 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

INGREDIENT NAME (CAS NUMBER) **Date Listed**
Diesel Engine Exhaust (no CAS Number listed) 10/01/1990

CANADIAN REGULATORY INFORMATION (WHMIS)

Class B, Division 3 (Combustible Liquid) and Class D, Division 2, Subdivision B (Toxic by other means)

16. OTHER INFORMATION

NFPA® HAZARD RATING HEALTH: 0
FIRE: 2
REACTIVITY: 0
Refer to NFPA 704 “Identification of the Fire Hazards of Materials” for further information

HMIS® HAZARD RATING HEALTH: 1 * * Chronic
FIRE: 2

PHYSICAL: 0

SUPERSEDES MSDS DATED: 02/28/2001

ABBREVIATIONS:
AP = Approximately < = Less than > = Greater than
N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:
ACGIH American Conference of Governmental Industrial Hygienists
AIHA American Industrial Hygiene Association
ANSI American National Standards Institute
(212) 642-4900
API American Petroleum Institute
(202) 682-8000
CERCLA Comprehensive Emergency Response, Compensation, and Liability Act
DOT U.S. Department of Transportation
[General info: (800) 467-4922]
EPA U.S. Environmental Protection Agency
HMIS Hazardous Materials Information System
IARC International Agency For Research On Cancer
MSHA Mine Safety and Health Administration
NFPA National Fire Protection Association
(617)770-3000
NIOSH National Institute of Occupational Safety and Health
NOIC Notice of Intended Change (proposed change to ACGIH TLV)
NTP National Toxicology Program
OPA Oil Pollution Act of 1990
OSHA U.S. Occupational Safety & Health Administration
PEL Permissible Exposure Limit (OSHA)
RCRA Resource Conservation and Recovery Act
REL Recommended Exposure Limit (NIOSH)
SARA Superfund Amendments and Reauthorization Act of 1986 Title III
SCBA Self-Contained Breathing Apparatus
SPCC Spill Prevention, Control, and Countermeasures
STEL Short-Term Exposure Limit (generally 15 minutes)
TLV Threshold Limit Value (ACGIH)
TSCA Toxic Substances Control Act
TWA Time Weighted Average (8 hr.)
WEEL Workplace Environmental Exposure

Level (AIHA)
WHMIS Canadian Workplace Hazardous
Materials Information System

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

Used Oil and Material Processing Facility Permit Renewal Application

Attachment J: SPCC Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN

Triumvirate Environmental (Florida) Inc.

`

May 2007
Updated August 2018

Prepared for:

Triumvirate Environmental (Florida), Inc.

3670 SW 47th Avenue
Davie, Florida 33312

Project No. 55:1686

SPILL PREVENTION, CONTROL,
AND COUNTERMEASURE PLAN

Triumvirate Environmental (Florida) Inc.
3670 SW 47th Avenue
Davie, Florida

MANAGEMENT APPROVAL

This is to certify that I have the authority to commit resources as necessary to implement this Spill Prevention, Control, and Countermeasure Plan.

This Spill Prevention, Control, and Countermeasure Plan will be implemented as herein described.

SIGNATURE: 

NAME: Kevin Coulon

TITLE: **Vice President Mid Atlantic and South East Region**

DOCUMENTATION OF REVIEW
OF SPCC PLAN
IN ACCORDANCE WITH 40 CFR 112.5(b)

A review and evaluation of the Spill Prevention, Control, and Countermeasure (SPCC) Plan must be completed at least once every five years.

I have completed a review and evaluation of the Spill Prevention, Control, and Countermeasure Plan for Triumvirate Environmental (Florida) Inc. and will amend the Plan if required.

REVIEW DATE	WILL AMEND	WILL NOT AMEND	NAME, TITLE, AND SIGNATURE OF PERSON REVIEWING THIS PLAN
5/18/2012	X		Sara Gilbert, ETSC
7/6/2012	X		John Wyluda, Lab Services/Compliance Coordinator
9/13/2012	X		John Wyluda, Lab Services/Compliance Coordinator
10/22/2012	X		John Wyluda, Lab Services/Compliance Coordinator
11/14/2014		X	Kyle Lapic, ETSC
4/6/2015	X		Kyle Lapic, ETSC
9/15/2017	X		Brooke Rabe, ETSC
8/1/2018	X		Stanley Stokes, ECS

PROFESSIONAL ENGINEER'S CERTIFICATION

I hereby certify that I, or my authorized representative, have examined the Triumvirate Environmental (Florida) Inc. and, being familiar with the provisions of 40 CFR 112, attest that this Spill Prevention, Control, and Countermeasure Plan has been prepared and amended in accordance with good engineering practices.

Such certification shall in no way relieve Triumvirate Florida of the duty to update and fully implement this SPCC Plan in accordance with the requirements of 40 CFR 112.

Stanley T Stokes

Digitally signed by Stanley T Stokes
DN: c=US, o=IdenTrust ACES Business Representative, ou=ELLIS AND ASSOCIATES, cn=Stanley T Stokes, 0.9.2342.19200300.100.1.1=A01097C0000014EF4294776000050E1
Date: 2018.08.09 15:58:29 -04'00'

Printed Name:	Stanley T. Stokes, P.E.
Title:	Senior Engineer
Company:	ECS-Florida, LLC
P.E. License No.:	FL P.E. 33251
Date:	August 9, 2018

REVISION HISTORY

Revision #	Date	Description of Change	Pages Affected
0	05/21/2007	Initial Release	
1	05/18/2012	Updated Name Change, Added Revision History Page Added Management Approval Page Added Lat/Long to Section 2 Added Facility Phone Number Section 2.III 2nd paragraph first word, changed from drummed to containerized Changed All Personnel to Oil-Handling Personnel Removed reference to Training Form in Appendix D and detailed TEFI Training Record Management through Intelex Detailed perimeter fencing Added statement about certification of substantial harm Added Fl-specific spill notification statements (5.) to Section 4.I and V Added cooking oil totes and used oil filter containers to inspection procedures Added Local Emergency Contact Phone Numbers, Removed Pager Numbers Added facility specific information to Spill Reporting Form and Discharge Report Form	Several Page iv Page i Page 2 Page 2 Page 3 Page 13 Several Page 14 Page 19 Pages 21, 22 Appendix A Appendix B Appendix C
2	7/6/2012	Removed Containment 6 as containment, replaced with Drum Storage Area (old containment 8) Removed Optional Inspections	Several Appendix D
3	9/13/2012	Added Transformer to inspection list	Several
4	10/22/2012	Updated Table 1 – Summary of Storage Locations	Page 4
5	4/6/2015	Updated Emergency Notification List	Appendix B
6	9/15/2017	Updated Emergency Notification List	Appendix B
7	6/5/18	SPCC P.E. Update	Document Edits

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SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN

SECTION 1

INTRODUCTION

In December 1973, the United States Environmental Protection Agency (U.S. EPA) promulgated regulations that established procedures and required equipment to prevent the discharge of oil from non-transportation-related facilities into or upon the navigable waters of the United States. These regulations, which are codified in 40 CFR 112, were issued pursuant to Section 311(j)(1)(c) of the Federal Water Pollution Control Act (as amended). These regulations underwent a major revision on July 17, 2002, and were amended several times since then, including December 5, 2008, with the compliance date being extended several times. The regulations apply to facilities that store petroleum materials in excess of 1,320 gallons above ground (only containers of 55 gallons or more used for storage are counted) and/or facilities that store greater than 42,000 gallons of petroleum materials under ground. This Spill Prevention, Control, and Countermeasure Plan (SPCC Plan or Plan) has been prepared for the petroleum storages within the Triumvirate Environmental (Florida) Inc. facility in Davie, Florida. **Table 1** provides a summary of the petroleum product storages provided at this facility. **Figure 1** shows the facility location. **Figure 2** shows the site layout and petroleum storage areas.

Section 2 of this Plan provides detailed information regarding the facility and its storage locations. Section 3 provides a discussion of facility conformance to the regulations in the format of the regulations. Section 4 provides spill response procedures to be implemented in the event of a spill. Finally, Section 5 provides information regarding the necessity and timing required for SPCC Plan updates.

SECTION 2

FACILITY IDENTIFICATION

FACILITY:	Triumvirate Environmental (Florida), Inc.
FACILITY NAME & LOCATION:	Triumvirate Environmental (Florida), Inc. 3670 SW 47th Avenue Davie, Florida 33314
FACILITY PHONE NO.	954-791-1327
NAME OF RESPONSIBLE PERSON AT THE FACILITY:	John (Shawn) Lennon, General Manager
DESCRIPTION OF ACTIVITIES:	Facility conducts used oil storage/processing and provides temporary storage (10 days) for hazardous wastes.
PETROLEUM STORAGE CAPACITY:	364,000 gallons, largest tank is 100,000 gallons
GEOGRAPHIC LOCATION:	Latitude 26° 4' 36.6745" Longitude 80° 12' 32.8696"
DESCRIPTION OF NEARBY NAVIGABLE WATER THAT COULD BE IMPACTED:	No navigable waters of the United States are located nearby that could be impacted by this facility. A pond and wetland are located to the northwest of the facility.
DATE OF INITIAL OPERATION	1987

I. Facility Description

Triumvirate Environmental (Florida) Inc. (TEFL) is located within an industrial area of Davie, Florida. The facility covers approximately 2.5 acres, of which approximately 50 percent is covered by concrete, concrete structures, and/or buildings. The remaining portions of the facility are covered by grass and a gravel-surfaced parking area.

TEFL operations consists primarily of two activities: 1) used oil storage/material processing subject to 40 CFR 279 of the Resource Conservation and Recovery Act (RCRA) and 2) the temporary storage (10 days) of hazardous waste subject to 40 CFR 262 of RCRA. The layout of the facility is described by **Figure 2**.

Generators that send to TEFL include automotive repair/maintenance shops/facilities, industrial facilities, paint shops, marinas and ship facilities, environmental cleanup sites, etc.

II. Waste Loading, Unloading, and Storage

Upon entering the facility, trailers and tankers are staged in the concrete parking area of the facility while awaiting access to the loading/unloading stations. Bulk liquids (i.e. oil and/or wastewater) are loaded and off-loaded at the stations located at the southeast end of the facility. Liquids are stored in the tank storage area located in the southeast portion of the facility. Drummed hazardous waste is received and temporarily stored in the 10-day transfer building located on the north side of the office trailer. The building is under roof and secondarily contained by a concrete pad.

III. Waste Processing

Bulk liquids are off-loaded and transferred to various aboveground storage tanks for subsequent processing. Total tank storage capacity is approximately 364,000 gallons. Processing consists of the conversion of used oil into a fuel oil. Fuel oil is subsequently shipped to properly permitted industrial furnaces.

Oily water, off-specification fuel, oil filters, used antifreeze, cooking oil, and other non-hazardous wastes and wastewaters are received at the facility and containerized. The facility also collects used oil filters, which may be in containers from 65 gallons up to 500 gallon capacity. Wastes may be sorted in tanker trucks, drums, totes, dump trailers, and roll-off containers. Drummed non-hazardous waste is shipped to TEFL located in Orlando, Florida for processing and disposal, or is consolidated in roll-offs located on-site for subsequent shipment to approved industrial landfills or incinerators.

The loading stations, aboveground storage tanks, and drum storage areas are provided with secondary containment. Transfer piping is either located in secondary containment areas or is constructed of double-walled piping.

TABLE 1
SUMMARY OF STORAGE LOCATIONS

Location	Capacity (gals)	Product Stored	Installation Date	Tank Diameter & Length	Tank Shell Thickness	Secondary Containment
AST #T1	8,000	Used Oil	01/89	8'x21.5' H	3/8"	#1
AST #T2	8,000	Used Oil	01/89	8'x21.5' H	3/8"	#1
AST# T3	6,000	Used Oil	04/89	8'x16' H	3/8"	#1
AST #T4	6,000	Used Oil/Oily Water	04/89	8'x16' H	3/8"	#1
AST # T5	10,000	Used Oil	06/87	10'x18' H	3/8"	#1
AST #T6	9,500	Waste Diesel	06/87	10.5'x14.6' H	3/8"	#1
AST #T8	20,000	Used Oil and Waste Diesel	06/87	10.5'x31' V	3/8"	#1
AST #T9	20,000	Used Oil/Oily Water	03/89	10.5'x31' V	3/8"	#1
AST #T10	20,000	Used Oil	06/87	10.5'x31' V	3/8"	#1
T11	20,000	Used Oil	06/87	10.5'x31' V	3/8"	#1
T12	20,000	Used Oil	03/89	10.5'x31' V	3/8"	#1
T13	20,000	Used Oil	03/89	10.5'x31' V	3/8"	#1
T14	20,000	Used Oil/Oily Water	03/89	10.5'x31' V	3/8"	#1
T15	20,000	Used Oil/Oily Water	04/89	10.5'x31' V	3/8"	#1
T16	20,000	Used Oil/Oily Water	04/89	10.5'x31' V	3/8"	#1
T17	20,000	Used Oil/Oily Water	04/89	10.5'x31' V	3/8"	#1
T18 or Mixer	6,500	Out of Service	04/89	8.5'x16' V	3/8"	#1
T7	10,000	Used Oil/Oily Water	01/93	8'x26' H	3/8"	#2
T20	1,000	Truck Diesel	Tank Removed from Service			
T21	100,000	Used Oil/Oily Water	06/96	20' x 31' V	3/8"	#4
T22	20,000	Oil Processing Tank	2014	10' x 35' H		#4
Drum Storage Building	55-550	Hazardous and non-hazardous waste, occasionally 1-20 drums of oil filters or other petroleum materials; Cooking Oil Totes 250 to 550 gal	N/A	Variable	Variable	#8
Storage Area	55-550	Cooking Oil Totes, Oil Filter or Other Petroleum Materials	N/A	Variable	Variable	#3

H = horizontal tank V = vertical tank

TABLE 2

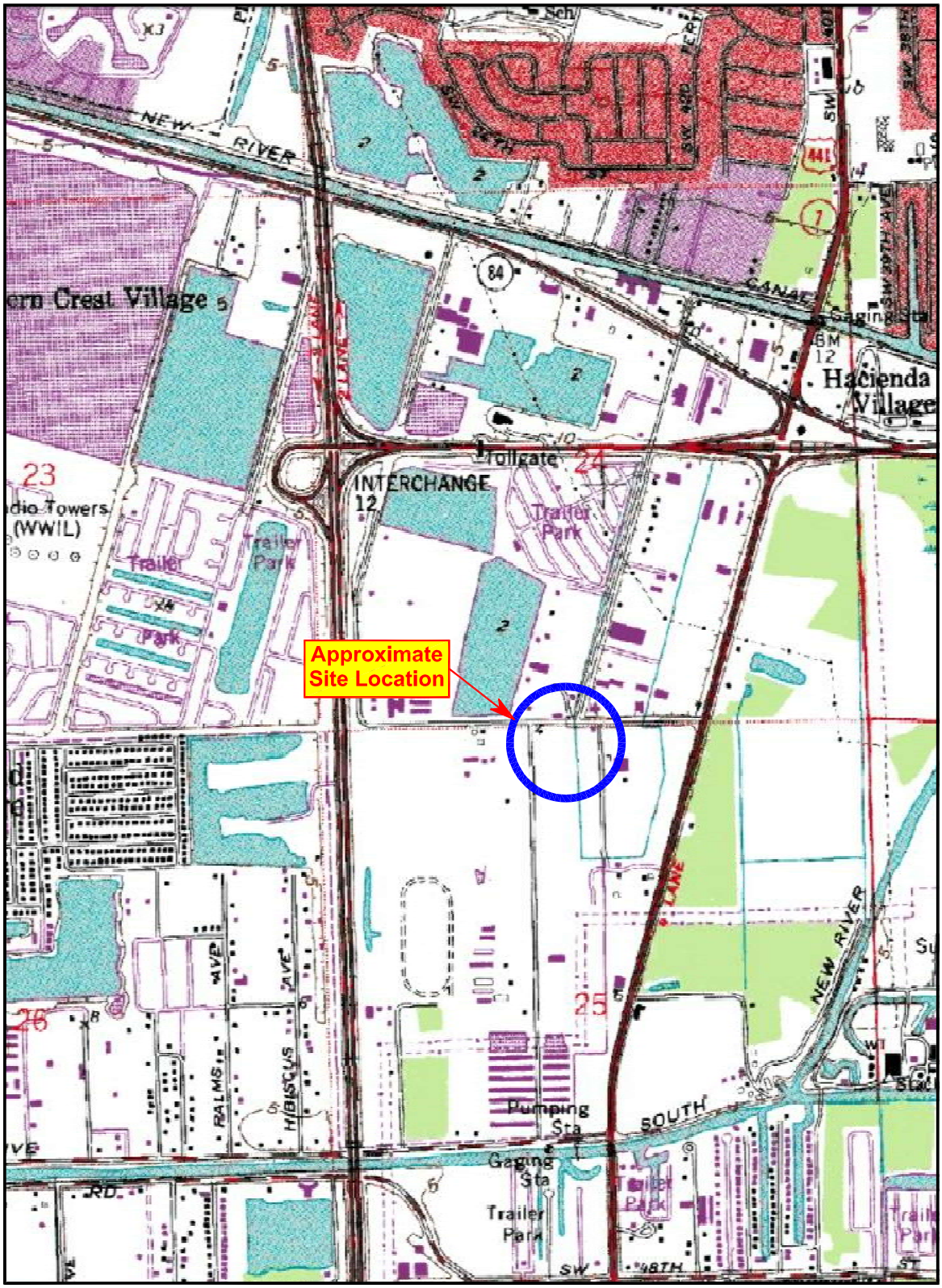
POTENTIAL SPILLS

Source of Spill	Location	Potential Type Of Failure	Estimated Quantity (gallons)	Rate of Spill (gal/hr)	Direction Of Spill	Secondary Containment	Potential for Occurrence
Drum/Container	Storage Area in Building	Complete spillage or rupture of drum	5 to 55	5 to 55	Inside building containment area	Containment #8, concrete	Low as drums are secured
		Leak/puncture	5 to 55	Less than 55			Low to moderate as drums/containers are secured when moved around and are inspected daily
Loading and Unloading Tank Storages	At loading/unloading ramp	Transfer hose uncoupling or breakage	Varies	Varies	Concrete Containment	Containment #3, concrete	Low (personnel are present during all transfers).
Drum/Container	Outside Storage Area	Complete spillage or rupture of drum	5 to 55	5 to 55	Inside building containment area	Containment #8, concrete	Low as drums are secured
		Leak/puncture	5 to 55	Less than 55			Low to moderate as drums/containers are secured when moved around and are inspected daily
Aboveground Storage	At ASTs	Overfilling or tank leakage	100,000 gallons oily water	Varies	Concrete Containment	Containment #1, 2, 4, & 5	Low as personnel are present during filling, high-level alarms provided, and daily volume checks conducted
Transfer Pumps	At ASTs	Discharge/leak	Varies	Varies	Concrete Containment	Containment #1, 2, 4, & 5	Low as personnel are always present
Internal Heating Coils	AST #T7	Discharge/leak	Varies	Varies	Concrete Containment	Containment #2	Low

TABLE 3

SECONDARY CONTAINMENTS

Containment No.	Description	Gross Capacity	Net Capacity	Largest Tank	Freeboard
1	Filled and sealed concrete block walls on concrete slab	74,700	44,400	20,000	10 inches of rainfall
2	Filled and sealed concrete block walls on concrete slab	16,000	14,300	10,000	8 inches of rainfall
3	Concrete walls on concrete slab	36,000 (Approx.)	36,000 (Approx.)	5,000 (tanker truck)	10 inches of rainfall
4	Filled and sealed concrete block walls on concrete slab	135,800	125,000	100,000	10 inches of rainfall
5	Removed				
6	Retention pond with grass soil berms (at entrance driveway)	93,600	93,600	5,000	6 inches of rainfall
7	Concrete	1800	1600	Transfer Pump	Not applicable
8	Warehouse	Not Determined	Not Determined	Drum or Tote Container	Under Roof



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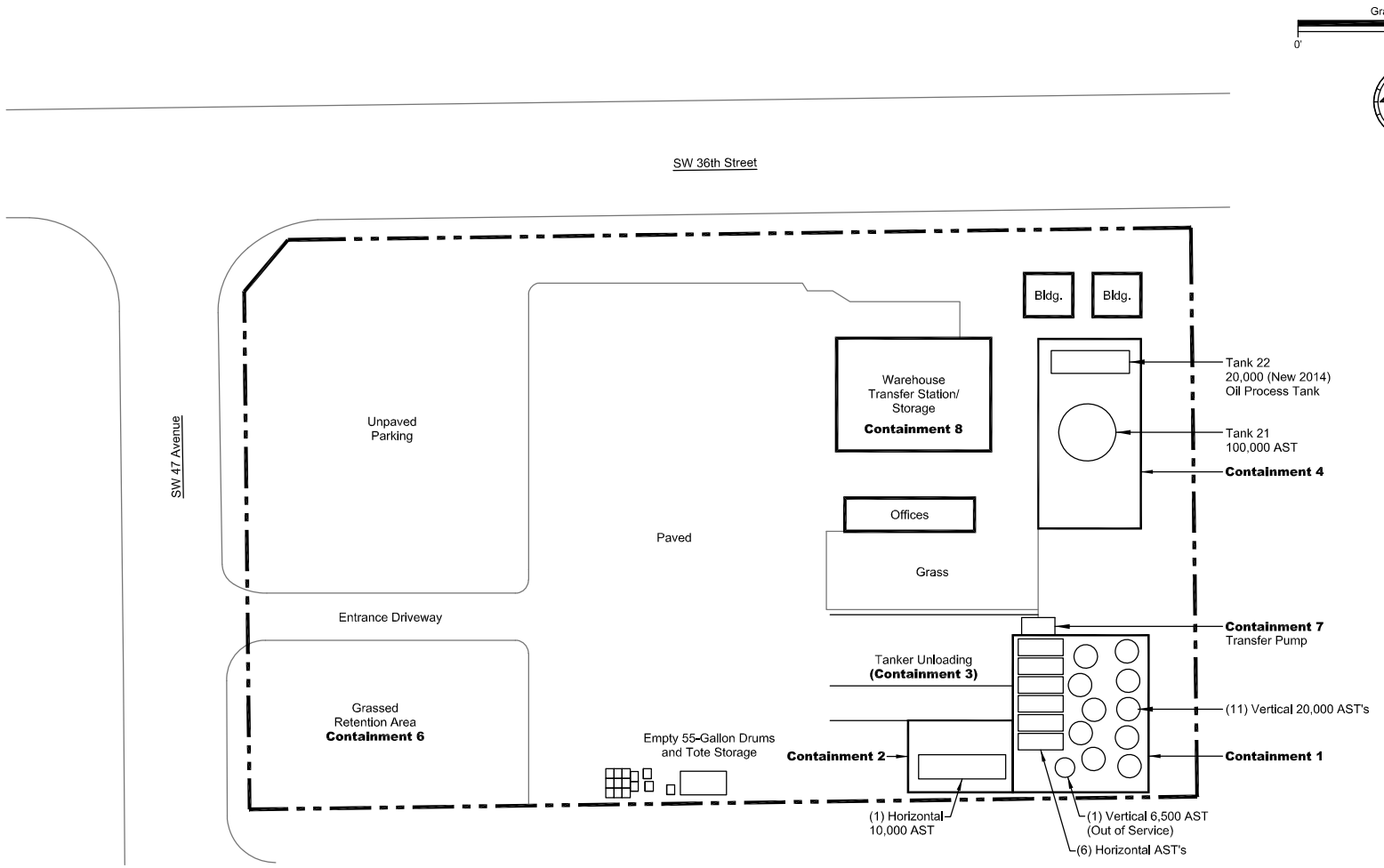
Site Vicinity/Topographic Map

Triumvirate Davie Facility

U.S. Geological Survey 7.5 Minute - Topographic Map
Fort Lauderdale South, Florida Quadrangle
Dated 1962, Revised 1983
Site Boundaries Depicted are Approximate

Date: 08/09/18	Project No.: 55-1686	Figure 1

JAS - 55-1686



Note:
Tank 20 and Containment 5 Removed.

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Site Plan
Triumvirate Davie Facility
3670 SW 47th Avenue
Davie, Florida

Date: 08/09/18	Project No.: 55-1686	Figure 2

JAS - 55-1686

SECTION 3

FACILITY CONFORMANCE

Section 112.4 requires certain notifications be made if a facility has a discharge of more than 1,000 gallons of oil in a single discharge or more than 42 gallons of oil in each of two discharges. This section also requires a facility amend the Plan if the Regional Administrator requests amendments to the Plan.

This facility will make required notification when appropriate and will either amend the Plan when requested by the Regional Administrator or will appeal. A copy of this notification will also be sent to the appropriate state agency in charge of the oil pollution control activities (i.e., Florida Department of Environmental Protection). The notification will include the required information listed in Section 112.4 (a)(1) through (9).

Section 112.5(a) requires the amendment of the SPCC Plan when there is a change to the facility design, construction, operation, or maintenance that materially affects its potential for discharge. This includes adding, moving and decommissioning of containers (including tanks) piping and secondary containment. This also includes a change in product or service or the revision of a standard operating or maintenance procedure.

This requirement is discussed in Section 5, SPCC Plan Updates.

Section 112.5 (b) requires a review and evaluation of the SPCC Plan at least once every five years. The completion of the review must be documented and a statement as to whether the Plan will be amended.

The five-year review is discussed in Section 5. The signed statement for this review is provided in page i of the Plan's cover documents. If the SPCC Plan needs to be amended based on this review, the SPCC Plan will be amended within 6 months of the review. Any amendment will be implemented as soon as possible, but not later than 6 months following the Plan amendment.

Section 112.5(c) requires a Professional Engineer certify any Technical Amendments to this Plan.

Any Technical Amendments to this Plan will be certified by a Professional Engineer.

Section 112.6: This regulation provides an option to prepare and self-certify the SPCC Plan for qualified facilities meeting criteria specified in Section 112.3(g).

This facility does not qualify for the self-certification option.

Section 112.7(a)(1) requires a discussion of the facility's conformance with SPCC Plan requirements.

The Plan developed herein conforms to the regulatory format provided by the regulation. Full approval of management is included in the Plan's cover documents.

Section 112.7(a)(2) requires a description of non-conforming issues, the reasons for non-conformance and the measures to achieve equivalent environment protection adopted by the facility.

The plan conforms to the requirements listed in Section 112.7. Any issues of non-conformance will be described in the discussion provided in response to the specific requirement.

Section 112.7(a)(3) requires a physical description of the facility, including site diagrams showing container storage locations and contents, transfer stations, piping, and buried tanks;

This information is provided in Section 2 of this Plan, with specific reference to **Figures 1** and **2**. There are no buried petroleum storage tanks at this facility.

i) information defining the types and capacities of oil storage;

This information is provided by **Table 1** in Section 2 of this Plan.

ii) Discharge prevention measures including procedures for routine handling of products;

The procedures for bulk fuel transfer and container handling are provided in **Appendix A** in a format that may be copied and laminated for posting and reference in the product-handling areas.

iii) A description of secondary containment around containers and storage sites;

This information is provided by **Table 3** of Section 2.

iv) Countermeasures for the discovery, response, and cleanup of a discharge;

These procedures are provided by Section 4 of this Plan.

v) Methods of disposal of recovered materials; and

Methods for disposal of recovered material are provided in Section 4 of this plan.

vi) A contact list and phone numbers for appropriate individuals and agencies to be notified in the event of a spill.

The contact list is provided in **Appendix B** and may be copied and laminated for posting in key areas.

Section 112.7(a)(4) Unless facility has submitted a response plan under 112.20, provide information and procedures to enable person to accurately report a discharge.

Appendix C provides a form that addresses the required information to be reported. Facility personnel are trained in completing the form and communicating to the relevant agencies. Use of this form is discussed in Section 4 of this Plan.

Section 112.7(a)(5) requires Plan organization that describes procedures to be used when a discharge occurs in a way that makes them readily usable in an emergency, and include appropriate supporting material as appendices..

This Plan is organized in the above manner. This Plan incorporates training and the use of one-page sections that can be easily referenced and used. TEFL uses an electronic training database to manage personnel training requirements.

Section 112.7(b) requires a prediction of spill flow direction, rates of flow, and quantities that could be discharged.

Experience indicates there is a low potential of tank failure (such as overflow, rupture, and leakage) at the facility. This can be attributed to several factors:

1. Tanks operate at ambient temperature and pressure and are equipped with the level gauges and an overflow alarm and secondary containment.
2. Piping and valves are not in areas exposed to vehicular traffic.
3. The tanks, pumps, valves, and piping are inspected daily with inspection findings recorded in facility inspection logs.
4. All tanks were thickness tested by a professional engineer in 2002.

Spillage of material is most likely to occur during tank transfer. However, the quantity of material that would typically be spilled is small. Personnel are required to be present during transfer, and transfer activities are conducted in contained areas provided with concrete barriers and elevation controls to prevent migration and to facilitate cleanup. In the unlikely event of a release of material and failure of the secondary containments, it appears that a spill would flow toward the retention pond on the southwest corner of the site property.

Table 2 and the site layout sketch (**Figure 2**) provide information on the potential for spills.

Section 112.7(c) requires provision of containment system and/or diversionary structures or equipment capable of containing a spill and must be constructed so that any discharge from a primary containment system will not escape the containment system before cleanup occurs. At a minimum, you must use one of the following or its equivalent: dikes, berms, retaining walls, curbing, drip pans, sumps and collection systems, culverting, gutters, weirs, booms, other barriers, spill diversion ponds, retention ponds, or sorbent materials.

This facility provides secondary containment as follows:

- Tanks 1 through 6, and 8 through 18, are served by Containment #1.
- Tank 7 is served by Containment #2.
- The tanker truck loading/off-loading bays are served by Containment #3.
- Tanks 21 and 22 are served by Containment #4.
- Tank 20 and Containment #5 were removed.
- The driveway and approach to the load/off-load bays are served by Containment #6 (the retention pond).
- A transfer pump is served by Containment #7.
- The drum storage building is served by Containment #8.

Section 112.7(d) requires a clear explanation if you determine that installation of certain specified structures or equipment is not practicable. For bulk containers, conduct both periodic integrity testing of the containers, conduct periodic integrity and leak testing of valves and piping, development of an oil spill contingency plan in cooperation with local authorities, and a written commitment of adequate response resources if structural secondary containment can not be provided.

This facility provides secondary containment as described by **Table 1 conforming to this requirement**.

Section 112.7(e) requires written procedures and records for periodic inspection and tests of the storage areas and containers.

Appendix E provides an inspection procedure and form for conducting inspections aimed at preventing and detecting spill threats. Records of inspections are kept on file for a minimum of three years. Similarly, records of tests such as container integrity tests are kept on site for a minimum of three years. The General Manager is responsible for implementation of the inspection program, as well as directing corrective measures.

The inspection program is intended to provide a mechanism to prevent and detect system malfunctions, equipment deterioration, and operator errors, and to provide early warning of the potential for such events in order that corrective and preventative actions may be taken. The inspection program focuses on safety, emergency equipment, and environmental monitoring. The program is intended to be implemented by qualified and trained individuals assigned the responsibility to detect any unsafe conditions at the facility and to help prevent adverse consequences. The designated individuals 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 inspection is performed daily. Each item listed on the inspection form is evaluated in such a manner and on such a frequency necessary to alert facility personnel prior to the development of a serious problem. The level of response to a problem is determined by the nature and seriousness of the problem identified, with the protection of personnel and the prevention of adverse impact on the environment being of paramount concern.

In addition to the above, Chapter 62-762 F.A.C. requires that field erected tanks be evaluated and the re-testing frequency established and implemented in accordance with API Std 653. As an alternate, field erected tanks with storage capacities of less than 250,000 gallons may be evaluated in accordance with STI SP001, Revised 2011, incorporated by reference in subsection 62-762.411(3), F.A.C., in lieu of API Std 653, November 2014.

Section 112.7(f)(1), (2), and (3) require training of oil-handling personnel at least annually and designation of a person at the facility accountable for discharge prevention.

The Operations Manager is the designated person accountable for discharge prevention. However, the Company Environmental Coordinator, Facility Manager or his/her designee must instruct personnel in the proper operation and maintenance of equipment to prevent petroleum spills. Initial training and annual briefings are provided.

Newly hired operational personnel participate in the TEFL spill prevention and control training program. All employees participate in a regularly scheduled review of the SPCC Plan and its procedures. Facility personnel are trained in general orientation and operation of the facility. An on-the-job training program related to the specific duties of each job function is specifically provided in combination with the standardized written, visual, and audible training. In addition, every operational employee participates in the continuing training to maintain proficiency, to learn new techniques and procedures, and to reinforce safety and quality consciousness.

TEFL conducts annual employee meetings that are used as a forum to reinforce understanding of SPCC Procedures. Past spill events (if applicable) and failures are described, malfunctioning components are discussed, and recently developed or changed procedures or precautionary measures are addressed. Copies of training certificates and a sample training presentation are provided in **Appendix E**. The following summarizes the training program:

Spill Prevention and Countermeasures Plan: Appropriate oil-handling personnel have been instructed in the following spill prevention and countermeasure requirements.

- No tanks, drums, or compartments are to be filled without first verifying the contents and checking tank levels.
- No bulk product deliveries or transfers are to be conducted unattended.
- Documented inspections of containers (drums, totes and tanks) used for oil storage or transfer are to be conducted monthly on the appropriate form.
- Accumulated precipitation shall be inspected for the presence of an oil sheen. If the accumulated precipitation does not have a sheen, it may be pumped to the adjacent paved surface. Accumulated precipitation with an apparent oil sheen will be be pumped into drum or tank for processing or disposal. Inspection must be documented on the form in **Appendix F**.
- Containers are to be checked daily for any signs of leaks, deterioration, or vandalism. Visual daily checks of piping, valves, pumps, and hoses are to be made for signs of leaks.
- No phase of material transferring or processing shall be conducted unattended by personnel.

All personnel are trained in:

- The location of emergency spill response materials;
- Containment procedures;
- Fire and explosion response;
- Shutdown of liquid handling equipment; and
- Spill notification procedures.

Section 112.7(g) requires facilities handling, processing, and storing oil to be fully fenced with entrance gates locked or guarded, when the facility is unattended.

All waste-handling and storage facilities are located within the general perimeter of the facility. The facility has an 8 foot tall security fence on the sides facing the roads. The remainder of the facility is surrounded by an eight foot tall steel security fence topped with 3 strands of barbed wire. Normal and routine access to the facility is monitored by plant personnel. The access gate is closed and locked during non-working hours.

Section 112.7(g) requires the facility to provide site security and prevent unauthorized access to system controls.

All containment systems, valves, piping, and electrical control systems are located within the areas controlled by the security fence. Adequate lighting is provided at all loading, unloading, and processing areas that are operated during nighttime hours.

Section 112.7(h)(1) requires use of quick drainage systems when drainage from loading/unloading areas not provided with catchment.

The loading/unloading area is located in Containment #3, which provides approximately 36,000 gallons of secondary containment.

Section 112.7(h)(2) requires measures to prevent vehicles from departing before complete disconnection of transfer lines.

Loading and unloading procedures meet the requirements of the Department of Transportation (DOT) for the transfer of hazardous and non-hazardous materials. Personnel are trained in accordance with DOT and OSHA requirements. A copy of these procedures is provided in **Attachment A**.

Section 112.7(h)(3) requires inspection of the lower-most drain and all outlets prior to filling and departure of any tank truck to prevent spillage on site or during transit from the site.

The inspection of the lowermost drain is required by the bulk load/unloading procedures of **Appendix A**.

Section 112.7(i) requires evaluation of a container for risk of failure due to brittle fracture upon repair, alteration, reconstruction, or change of service.

If an aboveground tank undergoes a repair or alteration that might affect the risk of a discharge due to brittle failure, the tank will be evaluated by a tank or materials engineer prior to being placed back in service. Repairs, alterations, and evaluations are typically conducted by a qualified contractor rather than facility maintenance personnel.

Section 112.7(j) requires discussion of more stringent State rules.

The Florida Department of Environmental Protection regulates above ground storage tanks in accordance with Chapter 62-762 F.A.C. The regulations require facility registration with annual fees, incorporate design standard, release detection, repairs, operation, maintenance, and recordkeeping. The State of Florida rules regarding oil spill reporting are discussed in Section 4.

The Florida DEP's regulation 62-762.501(2)(c)3. states, *"Dike field areas with secondary containment shall... conform to Chapter 22 of NFPA 30, 2015 Edition and contain a minimum of 110% of the maximum capacity of the tank or of the largest single walled tank within the dike field area."*

All secondary containment areas are of sufficient size to contain at minimum 110% of the maximum capacity of the largest tank within the containment area.

Section 112.8(a) requires compliance with Sections 112.7 provisions.

As previously addressed, compliance with Section 112.7 provisions has been established.

Section 112.8(b)(1) requires control of drainage from diked storage areas by valves or manually activated pumps or ejectors. The condition of the accumulation must be inspected before discharge to ensure no discharge of oil.

No outfalls drain valves are present at the facility. Surface water drainage patterns for the facility prevent entry of drainage from unbermed areas into waters of the United States. Rainwater and/or minor spills within secondary containment areas and truck loading areas are pumped to storage containers for proper management and disposal. Pumps are manually activated. No accumulations of liquid (except for accumulated precipitation with no observable sheen) in secondary containment areas are released to the environment. The Secondary Containment Drainage Procedure is provided in **Appendix F**. The drum storage building is roofed and minimal accumulation of liquids (i.e. rainwater which may enter through facility doors) may be removed by absorbent materials.

Section 112.8(b)(2) limits valve use to manual, open-and-closed design valves. Flapper-type drain valves are not allowed.

No drain valves are provided for the containments.

Section 112.8(b)(3) requires design of facility drainage systems for undiked areas subject to discharge to flow into catchment basins. Catchment basins may not be located in areas subject to periodic flooding.

Catchment #6 is a retention basin provided for catchment of drainage from paved surfaces in the undiked areas over which loaded tanker trucks travel within the facility.

Section 112.8(b)(4) requires that a diversion system be provided if Section 112.8(b)(3) cannot be met.

This section is not applicable to the facility.

Section 112.8(b)(5) requires fail-safe design for systems requiring pumped transfer within treatment systems for drainage waters.

All pumped transfer systems are manually activated and controlled. Facility personnel are present during pumped transfers.

Section 112.8(c)(1) requires the use of containers constructed of oil-compatible materials.

All tanks are constructed of carbon steel, which is an oil-compatible material. Stored materials are stored at ambient temperature and pressure.

Section 112.8(c)(2) requires provision of secondary containment for bulk storage tank installations for the capacity of the largest container to be stored plus precipitation freeboard.

Secondary containment structures constructed of concrete and masonry are provided at the facility for all oil storage tanks. Loading areas are located in secondary containment. The drum storage building is under a roof and is not subjected to precipitation freeboard however the containment exceeds the largest container. Outside drum storage is also provided with secondary containment. All containment areas are of sufficient size to contain the contents of the largest tank or tank truck compartment plus an accumulation of 6 inches or more of precipitation.

Section 112.8(c)(3) requires all dike water discharges to be controlled by: keeping bypass valve closed, inspecting retained rainwater prior to discharge, open and close the valve under responsible management, and keep records of such events.

Dike walls do not include drain valves. Collected water is manually pumped to the adjacent paved surface provided no sheen is present, or to a storage container for proper treatment or management. **Appendix F** provides a form for recording such events, in the event the dike water discharges are deemed acceptable.

Section 112.8(c)(4)&(c)(5) require protection of buried and partially buried metallic storage tanks from corrosion by coatings or cathodic protection backed by periodic leak testing.

There are no underground tanks used for the storage of oil at this facility.

Section 112.8(c)(6) requires integrity testing of aboveground containers by frequent visual inspections and by regularly scheduled non-destructive methods. All inspections and test must be recorded.

All tanks are inspected on a regular basis to assess tank integrity by the Facility Manager or other qualified personnel, as assigned by the Facility Manager to assess tank integrity. Formal daily inspections record:

- Evidence of leaks or spills;
- Condition of tanks;
- Condition of piping and pumps; and
- Condition of secondary containment areas.

These inspections utilize the form provided in **Appendix E**.

Ultrasonic testing of tank shell thicknesses was conducted October 16-28, 2002 to confirm tank integrity. This testing resulted in engineer certification for continued use of all tanks.

In addition to the above, Chapter 62-762 F.A.C. requires that field erected tanks be evaluated and the re-testing frequency established and implemented in accordance with API Std 653. As an alternate, field erected tanks with storage capacities of less than 250,000 gallons may be evaluated in accordance with STI SP001, Revised 2011, incorporated by reference in subsection 62-762.411(3), F.A.C., in lieu of API Std 653, November 2014.

Section 112.8(c)(7) requires monitoring for oil contamination of internal heating coil discharges to open watercourses or the provision of predischarge storage or treatment.

Internal heating coils are only used on Tank #7. These coils are located inside secondary containment. Steam return is not discharged to an open watercourses.

Section 112.8(c)(8) requires engineering of containers to provide for high level alarms, high liquid level pump cutoff, or manning direct level reading devices. Regular testing of liquid level sensing devices is required.

The possibility of a significant discharge is reduced by the following equipment/processes:

- Direct visual tank level gauges;
- Audible overflow alarm and ancillary overflow containment tank;
- Manned transfer operations; and,
- Regular inspections of tanks and ancillary equipment.

Section 112.8(c)(9) requires observation of effluent treatment facilities frequently enough to detect possible system upsets that could cause a harmful discharge.

There are no plant effluents at this facility.

Section 112.8(c)(10) requires prompt correction of visible discharges.

If it is determined that the integrity of a tank or ancillary equipment is compromised, the tank or equipment is taken out of service, the problem evaluated, and appropriate steps taken to correct the deficiencies.

Section 112.8(c)(11) requires provision of secondary containment for mobile containers.

Tanker trucks containing waste materials are parked in the area served by Containments #3 or #6.

Section 112.8(d)(1) requires cathodic protection and protective wrapping and coating of piping installed or replaced on or after 8/16/02. Inspection for corrosion of buried piping exposed for any reason is required. Corrosion damage must be repaired.

The facility uses no underground piping for petroleum materials.

Section 112.8(d)(2) requires capping or blank flanging of transfer piping when not in service. The transfer piping must also be marked as to the origin.

Out-of-service piping shall be removed, capped, or blank flanged.

Section 112.8(d)(3) requires proper design of piping supports to minimize abrasion and corrosion and allow for expansion and contraction.

Piping supports are designed to allow for expansion and contraction while minimizing abrasion and corrosion.

Section 112.8(d)(4) requires regular inspection of valves, piping, and appurtenances.

All valves and fittings are periodically inspected for leaks (**Appendix E**). Pipelines, valves, and piping are manned during material transfers.

Section 112.8(d)(5) requires signs warning vehicles entering the facility of the presence of overhead piping.

No overhead piping in traffic ways is present at the facility.

Section 112.20(a) requires the owner or operator of a facility that, because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into navigable waters to submit a facility response plan to the Regional Administrator. Section 112.(f)(1) and Attachment C-1 provide criteria to determine if the facility "could reasonably be expected to cause substantial harm."

The "Certification of Substantial Harm Determination Form" in **Appendix G** demonstrates that a Facility Response Plan is not required for this facility.

SECTION 4

SPILL RESPONSE PROCEDURES

Response to spills is conducted according to the procedures detailed in the following subsections. It must be noted that, if several personnel respond to an incident, many of the following procedures can be conducted concurrently. For example, while one person is following the emergency notification procedures, other personnel could be implementing actions to contain the spill.

I. Spill Notification Procedure

Upon the discovery of a spill, the following notifications must be made.

1. The Facility Manager (Primary Emergency Coordinator) must be notified immediately. If he/she cannot be located, then one of the Alternate Emergency Coordinators or the Company Environmental Coordinator should be called. (See **Attachment B** for phone numbers.) The person who discovers the spill should be prepared to give the following information:

    - his/her name and position with the company;
    - material spilled and estimated amount;
    - source and cause of the spill, if known;
    - area affected;
    - time the spill was first observed; and
    - actions initially taken.

2. The Primary Emergency Coordinator (Facility Manager), First Alternate Emergency Coordinator (Operations Manager), and the Designated Company Environmental Coordinators are the only persons authorized to make agency notifications. If the facility has released petroleum materials off site in harmful quantities as defined in 40 CFR 110.3 (i.e., it has caused a sheen or discoloration on any water body), an authorized person shall report the incident to the regulatory agencies listed in the Emergency Notification Sheet in **Appendix B**. In reporting, the authorized person shall be prepared to give the following information:

    - his/her name and position with the company;
    - facility name, location, and phone number;
    - material spilled and amount;
    - source and cause of the spill, <u>if known</u> (do not speculate);
    - area affected;
    - time the spill was first observed;
    - extent of injuries, if any;
    - any evacuation precautions taken;
    - response actions conducted, including containment and cleanup underway;

- estimated time to complete remediation;
- potential hazards to human health or the environment; and
- names of other individuals and organizations contacted.

3. For a release greater than 42 gallons into the environment (i.e., soil, water), the authorized person shall determine if the emergency response contractor should be contacted for cleanup assistance.

4. If the facility has discharged oil into or onto the navigable waters of the United States in any of the following quantities:
   - more than 1,000 gallons in a single spill event, or
   - more than 42 gallons in each of two spill events within a 12-month period,

   an authorized company representative must submit a written report as described in subsection IV of this Section.

5. Florida has specific reporting requirements:

   a) A discharge of any amount of a pollutant (this includes oil) that enters, or threatens to enter, waters of the state must be reported as soon as possible, but no later than one hour after the discovery of the occurrence to the NRC and the FL State Warning Point phone number in **Appendix B**.

   b) A discharge of 25 gallons of oil or more to a "pervious" surface must be reported as soon as possible, but no later than 24 hours. The discharge must be removed and properly treated, disposed, or remediated.

II. Response Preparation

Appropriate containment/spill response equipment is kept in close proximity to all potential spill areas. A sufficient supply of this material should be available to all locations to ensure that potential off-site migration pathways can be adequately protected. The materials to be located near potential spill areas include:

- a (55-gallon) drum containing:
  - materials suitable for absorbing petroleum products (e.g. kitty litter, corn cobs, oil-dri, absorbant socks or pads, etc);
  - plastic (or other non-sparking material) shovel or scoop;
  - chemical resistant gloves, protective aprons, safety glasses or goggles, and/or other appropriate personal protective equipment;
- sandbags;
- fire extinguishers;
- shovels, squeegees, and brooms, pipe wrench, drum plug wrench;
- salvage drums and overpacks.

III. Response Procedure

Upon detection of a spill, trained personnel responding will immediately:

- put on proper personal protective equipment, which, at a minimum, includes chemical-resistant gloves and a rubber apron (or equivalent);
- identify the source and cause of the spill;
- take appropriate measures to stop the flow of material (e.g., reconnect hose, plug hole, shut valve, transfer liquid to an empty drum, etc.);
- quickly estimate the magnitude of the spill;
- using absorbent material, sandbags, or similar material, block drainage ways, if there is a potential for material to flow off the property;
- contain any material, using cleanup and containment equipment, that may have escaped the storage vessel;
- recover and containerize spilled material (as much as possible) into a drum or container and dispose of properly to a landfill permitted for such material, to a recycler capable of processing off-specification oil, or to a recycler permitted for disposal;
- decommission the tank (if the spill was from a tank) and schedule it for repair after the cause of the spill or failure has been determined; and
- obtain assistance from a spill cleanup contractor if it is determined that a spill is beyond the control and/or contamination outside the facility has occurred.

After the spill has been contained and cleaned up, the Primary Emergency Response Coordinator (Facility Manager), the Alternate Emergency Response Coordinator (Operations Manager), or the designated Company Environmental Coordinator must ensure that all spill response equipment is restocked and ready for usage.

IV. Written Agency Notification

If the facility has released petroleum materials off site in harmful quantities, which means it has caused a sheen or discoloration on any navigable waters of the United States, the Company Environmental Coordinator should report the incident to the National Response Center using one of the forms provided in **Appendix C**.

If the facility has discharged oil into or on the navigable waters of the United States in any of the following quantities:

- more than 1,000 gallons in a single spill event, or
- more than 42 gallons in each of two spill events within a 12-month period,

The Company Environmental Coordinator (or designee) must submit a written report to the Regional Administrator of the Environmental Protection Agency, Region IV within 60 days. The report shall contain the information provided by the form in **Appendix C**.

Florida has specific reporting requirements. These include:

a) A discharge of any amount of a pollutant (this includes oil) that enters, or threatens to enter, waters of the state, and

b) A discharge of 25 gallons or more of oil to a "pervious" surface.

The written report must be submitted on Florida Discharge Report Form 62-761.900(1), which is provided in **Appendix C**. A copy of any report sent to the Regional Administrator must also be submitted to the Florida Department of Environmental Protection.

SECTION 5

SPCC PLAN UPDATES

Section 112.5(a) requires the amendment of the SPCC Plan when there is a change to the facility design, construction, operation, or maintenance that materially affects its potential for discharge. This includes adding, moving and decommissioning of containers (including tanks) piping and secondary containment. This also includes a change in product or service or the revision of a standard operating or maintenance procedure. Section 112.5(b) requires a review and evaluation of the SPCC Plan at least once every five years. The completion of the review must be documented.

The SPCC Plan shall be updated:

- within six months after significant changes occur in the facility operations;
- if the Plan fails to provide the desired degree of protection;
- when a period of five (5) years has elapsed since the last revision(s) and the review indicates that a revision is necessary; or
- as required by changes in the 40 CFR 112 regulations.

APPENDIX A

LOADING/UNLOADING PROCEDURES

Bulk Fuel Transfer Procedure

1. Smoking is prohibited while offloading petroleum or fueling vehicles.

2. Verify that all valves in the secondary containment berm are closed. Move the truck into the unloading area, stop the engine, (unless required to operate a pump), set the hand brake, place wheel chocks, and connect a grounding cable between the tank and the truck frame. Verify sufficient volume in tank (if unloading truck) or in the truck (if loading truck) prior to starting transfer.

3. Drivers must be present during all petroleum transfers. No petroleum will be transferred to or from a storage tank unattended. The driver must be awake, have an unobstructed view of the tank and be within 25 feet of the truck. All transfer operations must be shut down if the driver leaves area.

4. All employees and all drivers conducting bulk transfers must review shipping papers or manifests and have knowledge of the nature of the materials they are handling and must have been trained on the procedures to be followed in an emergency.

5. Hose connections, valves, and pumps must be visually inspected continually during transfers to check for leaks or drips. All leaks must be stopped immediately or contained in a drip pan.

6. All areas, including loading/unloading area, truck parking area, etc. are to be kept free of petroleum materials and excessive residue.

7. To minimize the release of any material during transfer operations, drip pans or buckets should be used under all hose connections. Drip pans and buckets must be cleaned up before leaving the area. Oil dry, rags, shovels, etc. are available at the facility for cleanup in the event of a spill or drip.

8. The available capacity in the storage tank must be checked and confirmed before material is transferred from a truck to the tank to ensure the storage tank is not overfilled.

9. All spills must be reported to the facility manager.

10. Drivers have the responsibility to keep the transfer area clean and free of petroleum materials, to prevent spills from occurring, to immediately and thoroughly cleanup any material spilled, and to report spills to the facility operator.

11. After unloading or unloading is finished, disconnect and secure all hoses, disconnect the grounding cable, assure that the vehicle's lowermost drain and outlets are closed and secured, and assure that tank valves and other closures are closed and free of leaks before removing the wheel chocks and driving the truck from the transfer area.

Container Handling Procedure

1. Company policy prohibits smoking in petroleum product container storage areas.

2. All containerized materials must be secured prior to moving.

3. During loading and unloading containers from a truck, the truck should be moved into the unloading area with the engine stopped and hand brake set.

4. Personnel using or handling containers must review manifests and container labels, be aware of the materials they are handling and must be trained in the procedures to follow in an emergency, such as rupture or puncture of the container.

5. All containers must be labeled as to content.

6. All areas, including concrete containment and storage rooms or trailers, are to be kept free of spilled material.

7. All spills must be reported to the facility manager.

APPENDIX B

EMERGENCY CONTACT LIST

EMERGENCY CONTACT LIST

Local Authority/ Agency	Phone Number	Contact Period
Davie Fire Department	911	Immediately
Davie Police Department	911	Immediately
Emergency Medical Service	911	As Needed
Broward County Pollution Prevention Division	954-519-1260	24 Hours
Florida Department of Environmental Protection	651-681-6600	24 Hours
Florida Bureau of Disaster Preparedness	850-413-9911	24 Hours
National Response Center (U.S. Coast Guard)	800-424-8802	Immediately for spill to waters of the U.S.
State Watch Office (Div. of Emergency Management)	800-320-0519	Immediately for reportable spill to water or offsite
EPA Region IV	404-562-8700	As Needed
Plantation General Hospital (Primary)	954-587-5010	As Needed
Broward General Hospital (Secondary)	954-355-4400	As Needed
Emergency Coordinator: John "Shawn" Lennon, Jr. General Manager	954-583-3795 (office) 954-296-3871 (cell)	
EHS & Transportation Compliance Specialist: Randy Troy	407-859-4441 (office) 260-416-4981 (cell)	
Cleanup Contractor – SWS Environmental Services (Now US Ecology)	954-957-7271 877-742-4215 (24 hour)	

APPENDIX C

FLORIDA DISCHARGE REPORTING FORM 62-761.900(1)
SPILL RESPONSE NOTIFICATION FORM

SPILL RESPONSE NOTIFICATION FORM

Reporter's Full Name: _____
Position: _____
Phone Numbers: Day _____
Evening _____
Company: Triumvirate Environmental (Florida) Inc..
Address: 3670 SW 47th Avenue
City, State, Zip: Davie, FL 33314

Facility Longitude: **80° 12' 32.8696"** N Facility Latitude: **26° 4' 36.6745" W**

INCIDENT DESCRIPTION

Incident Address/Location: _____
Container Type: _____
Date and Time of Discharge: _____ _____AM/PM
Material Discharged: _____
Discharged Quantity: _____ Gallons
Did Material Reach Water? _____ (Y/N) If so, What Quantity? _____ Gallons
Media Affected? Air? Y or N Water? Y or N Land? Y or N
Description of Medium Affected: _____
_____
Source and/or Cause of Incident: _____
_____
_____
_____
_____
_____

RESPONSE ACTION AND IMPACTS

Actions Taken to Correct, Control, or Mitigate Incident: _____
_____
_____
_____
_____
_____

Number of Injuries: _____ Number of Deaths: _____
Evacuation Required? _____ (Y/N) Number Evacuated: _____
Damage Incurred: _____ (Y/N) Damage Cost Estimate: $_____

NOTIFICATIONS

USEPA? ____ (Y/N) STATE? ____ (Y/N) Other? See Notification List

ADDITIONAL INFORMATION: _____

_____
_____
_____

Department of Environmental Protection

2600 Blair Stone Road ◆ Tallahassee, Florida 32399-2400

DEP Form: 62-761.900(1)
Form Title: Discharge Report Form
Effective Date: January 2017
Incorporated in Rule 62-761.405, F.A.C.

DISCHARGE REPORT FORM

Complete all applicable blanks, and submit copies of any analytical or field test results confirming contamination to soils, surface water, or groundwater to the County via email or mail.

Facility ID Number (If Registered):_____ Date of Form Completion:_____ Date of Discovery: _____

Facility Name:_____ County:_____

Facility (Property) Owner:_____ Telephone Number:_____

Owner Mailing Address:_____

Location of Discharge (Facility Street Address):_____ Lat/Long:_____

Date of receipt of any test or analytical results confirming a discharge:_____ Estimated number of gallons discharged:_____

Discharge affected: (Check all that apply)

☐ Soil ☐ Groundwater ☐ Soil water (water body name) _____
☐ Drinking water well(s) ☐ Shoreline ☐ Other (specify) _____

Evidence of discharge: (Check all that apply)

☐ Visual observation of sheen ☐ Results or receipt of results of analytical tests ☐ Stained soils
☐ Visual observation of free product ☐ Spill or vehicle overfill > 25 gallons to a pervious surface ☐ Other (explain in comments)

Method of discovery and confirmation of discharge: (Check all that apply, see rule language explanation on instructions for this form)

☐ Visual observation ☐ Closure/Closure sampling assessment ☐ Surface water analytical results
☐ Groundwater analytical results ☐ Soil analytical results ☐ Other (specify)_____

Type of regulated substance discharged: (Check all that apply)

☐ Gasoline ☐ Jet fuel ☐ Mineral acids (ASTs)
☐ Diesel ☐ Used/waste oil ☐ Ammonia compound ☐ Chlorine compound
☐ Heating oil ☐ New motor/lube oil ☐ Biofuel blends
☐ Kerosene ☐ Pesticide ☐ Unknown
☐ Aviation gas ☐ Grade 5 & 6 residual oils ☐ Other (specify)_____
☐ Hazardous substance (USTs) – write name or Chemical Abstract Service (CAS) #:_____

Discharge originated from a: (Check all that apply)

☐ Tank ☐ Other secondary containment ☐ Railroad tankcar
☐ Piping ☐ Fitting or pipe connection ☐ Barge, tanker ship or other vessel
☐ Spill bucket ☐ Valve ☐ Pipeline
☐ Dispenser ☐ Tank truck ☐ Drum
☐ Piping sump ☐ Vehicle or customer vehicle ☐ Unknown
☐ Dispenser sump ☐ Aircraft ☐ Other (specify)_____

Cause of the discharge: (Check all that apply)

☐ Spill ☐ Material failure (crack, split, etc.) ☐ Collision ☐ Weather
☐ Overfill ☐ Material incompatibility ☐ Vehicle accident ☐ Human error
☐ Corrosion ☐ Improper installation ☐ Fire/explosion ☐ Unknown
☐ Puncture ☐ Loose connection ☐ Vandalism ☐ Other (specify)_____

Actions taken in response to the discharge:

Comments:

Agencies notified (as applicable):

☐ Fire Department ☐ County Program_____ ☐ District Office _____ ☐ State Watch Office 800-320-0519 ☐ National Response Center 800-424-8802

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

_____ _____

Printed Name of Owner, Operator or Authorized Representative

Signature of Owner, Operator or Authorized Representative

APPENDIX D

FACILITY INSPECTION PROCEDURE AND FORM

INSPECTION PROCEDURE FOR SPCC PLAN

An optional inspection form is provided in this appendix. However, as long as equivalent inspections are conducted and documented per the RCRA permit, this inspection form need not be used. The following items, if present, must be inspected by trained personnel:

OBSERVE for puddles of product or an oil sheen on any standing water.

ABOVEGROUND PIPING: Liquid bulk fill lines will be inspected for leaks, evidence of leaks, and evidence of potential leaks.

TANKS and PARKED TRUCKS: All bulk storage containers and associated piping will be visually inspected for leaks, overflows, and signs of potential problems. Special emphasis will be placed on the inspection of seams, patches, piping connections, sight glasses, and other openings. Valves should be in their proper position and locked or sealed, if required.

SECONDARY CONTAINMENT: Secondary containment areas will be inspected for adequate capacity and leaks, cracks, or other signs of failure.

SECONDARY CONTAINMENT RAINWATER ACCUMULATION: Diked areas must be kept reasonably free of rainwater accumulation. Secondary containment drains MUST be closed and sealed when not in use. The drain must be manned whenever it is open. Any drainage of rainwater from secondary containment areas must be INSPECTED and RECORDED on a Secondary Containment Drainage Log (See Appendix F).

TRANSFER PUMPS: Transfer pumps will be inspected for leaks around the housing. Associated piping will be inspected for leaks at the pump connections.

DRUMS: Drums will be inspected when received for condition. Drums will not be accepted if there is evidence of leaks or mishandling. Drums in storage will be examined for leaks, with special attention given to the bottom seam.

DRAINS: Drains should be inspected for blockage and accumulation of debris that would impede the free flow of liquids.

DRAIN PANS OR DRIP CONTAINERS: The liquid level in drip pans or drain containers should be checked and emptied as needed.

TANK OVERFILL ALARMS: Overfill alarm systems should be tested periodically for proper function.

DISPENSING HOSES: Dispensing hoses should be inspected for leaks and hose deterioration.

SPILL RESPONSE EQUIPMENT: Check spill response equipment to make sure that it is fully stocked and in good condition. Replace or upgrade as needed.

COOKING OIL TOTES**:** Will be inspected when received for condition. Oil Totes will not be accepted if there is evidence of leaks or mishandling. Oil Totes in storage will be examined for leak.

USED OIL FILTER CONTAINERS: All bulk used oil filter storage containers will be examined for leaks or overfill.

SPCC MONTHLY FACILITY INSPECTION FORM

Oil Storage Description	Tank/Truck/ Container in Good Condition?	Tank Piping, Hoses, Valves, Supports, Appurtenances, etc. in Good Condition?	Secondary Containment in Good Condition, No Liquid?	Date Problem Corrected and Employee Initials
Oil Tanks				
Tanks 1-7				
Tanks 8-17				
Tank 18	Out of Service			
Tank 20	Removed			
Tank 21-22				
Tank Truck				
Vacuum Truck No. 1				
Vacuum Truck No. 2				
Used Oil Drums in HW Storage Area		NA		
Cooking Oil Totes				
Used Oil Filter Containers				

Transformer (owned & operated by FPL) in good condition?	Y	N
Spill Response Equipment: Seal in Place or Inventory Complete?	Y	N
Physically Test Tank Alarm – Functional?	Y	N

Comments: _____

_____

_____

To the best of my knowledge, I have personally verified that the information on this report is true, accurate, and complete.

Inspector's Signature: _____ Date: _____

APPENDIX E

TRAINING RECORDS AND SAMPLE TRAINING PRESENTATION

APPENDIX F

SECONDARY CONTAINMENT DRAINAGE PROCEDURE AND LOG

SECONDARY CONTAINMENT DRAINAGE PROCEDURE

1. Inspect secondary containment on a monthly basis or as necessary following rainfall for drainage.

2. Visually inspect the secondary containment. Indicate the condition of the accumulated water.

4. Record the depth of accumulation.

5. Follow the appropriate drainage procedure.

   A. Observe the water surface for a sheen or oil presence.

   B. If no sheen is apparent the water may be pumped to the nearest paved surface.

   C. If the water is possibly contaminated, take a sample for closer observation and possible testing.

   C. If the water is considered contaminated, call the facility operator or emergency coordinator to direct cleanup or further action.

   D. If in doubt of the appropriate action, contact a facility operator or emergency coordinator immediately.

6. Enter the time the drainage operation begins. If any tanks within the secondary containment contains product, check drainage frequently.

7. Upon completion of drainage, secure all pumps and/or valves.

8. Enter stop time.

9. Sign, date, and file the form. Drainage Logs are to be retained at the facility for a minimum period of three (3) years.

10. Return the completed inspection form to the facility manager or designee.

SECONDARY CONTAINMENT DRAINAGE LOG
Containment # ______

Inspection Date	Condition	Depth Of Accum.	Procedure	Pumping Started Time	Pumping Stopped Time	Comment	Signature
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
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	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				

Condition:
1. Accumulation clear & free of oil, sheen, or discoloration.
2. Accumulation has very small quantity of oil, film, sheen, or discoloration.
3. Accumulation has heavy oil content.

Procedure:
1. Entire accumulation pumped to drum or tank truck for disposal.

NOTE: If in doubt on procedure or condition, contact facility operator immediately

APPENDIX G

CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION FORM

CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION FORM

FACILITY NAME: Triumvirate Environmental (Florida) Inc.

FACILITY ADDRESS: 3670 SW 47th Avenue, Davie, Florida 33314

1. Does the facility have a maximum storage capacity greater than or equal to 42,000 gallons and do the operations include over water transfer of oil to or from vessels?

   Yes _____ No ___X___

2. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility without secondary containment for each aboveground storage area sufficiently large to contain the capacity of the largest aboveground storage tank and precipitation within the storage area?

   Yes _____ No ___X___

3. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III or an alternative formula* considered acceptable by the RA) such that a discharge from the facility could cause injury to fish, wildlife, and sensitive environments?

   Yes _____ No ___X___

4. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III or an alternative formula* considered acceptable by the RA) such that a discharge from the facility would shut down a public drinking water intake?

   Yes _____ No ___X___

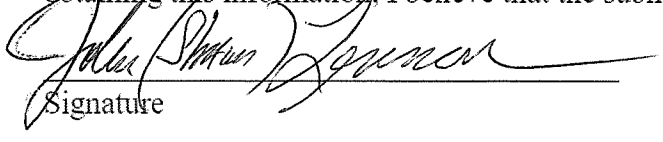
5. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and, within the past 5 years, has the facility experienced a reportable spill in an amount greater than or equal to 10,000 gallons?

   Yes _____ No ___X___

*If an alternative formula is used, documentation of the reliability and analytical soundness of the alternative formula must be attached to this form.

CERTIFICATION – INCLUDES ALL SUBSTATIONS

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.



Signature

General Manager
Title

John (Shawn) Lennon
Name (please type or print)

8/23/22
Date

Used Oil and Material Processing Facility Permit Renewal Application

Attachment K: Closure Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

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A. Closure Plan for Used Oil Processing Facility

1. Introduction

Purpose

This closure plan is prepared in accordance with rule 62-710.800(3) for TESI, a used oil processing facility.

Scope

This closure plan describes the manner in the used oil treatment and storage areas of the facility will be closed in order to satisfy the requirements of closure performance pursuant to 62-710.800(3)(a), F.A.C.

Facility Information

TESI is a used oil processor, transporter, and oil filter recycler.

Facility Location:	Triumvirate Environmental Services, Inc. (TESI) 3670 SW 47th Avenue Davie, FL 33314
EPA ID No:	FLD 981 018 773

2. Closure Performance Standards

TESI, as owner/operator of the facility, shall close the used oil processing area of the facility in a manner that:

a) Minimizes the need for further maintenance;
b) Provides for the removal of used oils stored in the area;
c) Provides for the disposal of oil storage and processing equipment from the site;
d) Demonstrates no contamination of groundwater has resulted from the facility operation;
e) Demonstrates no contamination of the soil has resulted from the facilities operation.

3. Closure Plan

Upon Closure, the used oil treatment and storage areas of the facility shall be closed. Partial closure may occur if areas of the facility are closed as a result of facility modifications.

Used Oil Disposal

The maximum storage capacity of the facility is approximately 450,000 gallons of used oil and oily wastewater. All used oil and material subject to the used oil regulations in storage at the time of closure shall be transported by a permitted used oil transporter and recycled by a used oil processing and/or burner facility permitted by the Florida Department of Environmental Protection. Material subject to the used oil regulations generated during closure of the facility shall be transported by a permitted used oil transporter and recycled by a used oil processing and/or burner facility permitted by the Florida Department of Environmental Protection.

Secondary Containment Decontamination

Following the removal of all regulated materials the secondary containment units will be cleaned utilizing a 2,200 psi pressure washer or equivalent equipment. The tank, pipelines, equipment, and storage areas will be cleaned in a systematic manner to ensure the contaminating material is thoroughly removed. Wash water generated from the cleaning process will be collected and pumped

directly into a tanker trailer for subsequent transportation and recycling. Secondary containment areas will be pressure washed until wash water shows no visual evidence of oil contamination.

As an alternative closure method, all tanks, piping, and equipment may be reused, if suitable. All tanks, piping, equipment shall be emptied of all free flowing used oil prior to removal from the facility for reuse. Any tanks, piping, and/or equipment, which cannot be reused, shall be recycled as scrap metal after proper cleaning.

Environmental Monitoring & Analysis

At the time of closure, groundwater monitor wells located in the vicinity of the used oil management activities shall be sampled in accordance with SW-846 protocols. The water sampled shall be tested for the presence of used oil by Methods 8010, 8020, 8270, and 418.1 (or their equivalent). Additionally, four soil samples shall be obtained from the areas in the vicinity of the used oil management activities. Samples shall be taken in accordance with SW-846 protocols and tested by Methods 8010, 8020, 8270, and 418.1 (or their equivalent). Soils will also be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP). If the results from the groundwater and soil samples do not exceed regulatory levels, "clean closure" will be assumed.

B. Closure Plan for Solid Waste Processing Facility

1. Introduction

Purpose

This closure plan is prepared in accordance with rule 62-701.320(7) for TESI, also a solid waste processing facility in addition to being a used oil processing facility.

Scope

This closure plan describes the manner in which the solid waste processing area of the facility will be closed in order to satisfy the requirements of closure performance pursuant to 62-701.320(7), F.A.C.

Facility Information

TESI is a used oil processor, transporter, and oil filter recycler. TESI is also a permitted solid waste processing facility.

Facility Location:	Triumvirate Environmental Services, Inc. (TESI) 3670 SW 47th Avenue Davie, FL 33314
EPA ID No:	FLD 981 018 773

2. Closure Performance Standards

TESI, as owner/operator of the facility, shall close the solid waste processing area of the facility in a manner that:

1. Minimizes the need for further maintenance;
2. Provides for the removal of non-hazardous wastes stored in the area;
3. Provides for the disposal of storage and processing equipment from the site;
4. Demonstrates no contamination of the soil has resulted from the facility's operation

3. Closure Plan

Upon Closure, the solid waste processing area of the facility shall be closed. Under the existing operating permit, this area consists of one 20 cubic yard roll-off container and drums of non-hazardous waste stored at the time of closure not to exceed 300, 55-gallon drums. This permit renewal requests a modification to allow two 20 cubic yard roll-off containers and drums of non-hazardous waste stored at the time of closure not to exceed 500, 55-gallon drums.

Non-Hazardous Waste Disposal

The maximum storage capacity will be two 20 cubic yard roll-off containers if the proposed modification is approved. The storage limit for drummed non-hazardous waste is proposed to be increased from 300, 55-gallon drums (in the current permit) to 500, 55-gallon drums.

All non-hazardous waste, whether in drums or the roll-off at the time of closure shall be transported offsite to a Treatment, Storage, and Disposal Facility (TSDF) permitted by the Florida Department of Environmental Protection.

Secondary Containment Decontamination

The secondary containment serving the drums and roll-off containing non-hazardous waste is the same containment used for loading/unloading used oil/oily wastewater. The secondary containment will be closed in accordance with the closure plan for used oil activities.

Environmental Monitoring & Analysis

At the time of closure, soil and groundwater will be monitored in accordance with the closure plan for the used oil processing facility. Groundwater monitor wells located in the vicinity of the used oil management activities shall be sampled in accordance with SW-846 protocols. The water sampled shall be tested or the presence of used oil by methods 8010, 8020, 8270, and 418.1 (or their equivalent). Additionally, four soils samples shall be obtained from the areas in the vicinity of the used oil management activities. Samples shall be taken in accordance with SW-846 protocols and tested by Methods 8010, 8020, 8270, and 418.1 (or their equivalent). Soils will also be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP). If the test results from the groundwater and soil samples do not exceed regulatory levels, “clean closure” will be assumed.

C. Closure Cost Estimates and Financial Assurance

The financial assurance for the used oil and solid waste processing facility was last updated in January 2022 by applying the current year inflation factor to last year’s closing cost estimate. The closing cost estimate form was reviewed and approved by FDEP in January 2022. The financial assurance bond was updated as required, mailed to the FDEP, and approved in February 2022. These documents are provided in **Attachment K** for reference.

In this permit renewal application, Triumvirate is requesting an additional 200, 55-gallon drums be approved for consolidation into two roll-off containers. An estimate of the cost to dispose of the additional 200, 55-gallon containers of non-hazardous material is provided in **Attachment K**. All other cost estimates for facility closure (secondary containment decontamination, environmental monitoring and analysis, etc) remain the same and are already accounted for in the inflation factor adjusted closing cost estimate previously approved.

DEP Form # 62-710.901(7)
Form Title: Used Oil Processing Facility Closing Cost Estimate Form
Effective Date: 12/2019
Incorporated in Rule 62-710.800(6)(b)

Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road MS 4560, Tallahassee, Florida 32399-2400

Used Oil Processing Facility Closing Cost Estimate Form

I. GENERAL INFORMATION:

EPA ID Number: FLD981018773

Facility Name: Triumvirate Environmental Services, Inc.

Permit Number: 73390-011HO 77390-012SO

Facility Address: 3670 SW 47th Avenue, Davie, FL 33314

Owner or Operator (Permittee/Applicant): John McQuillan

Mailing Address: 3701 SW 47th Avenue, Suite 109, Davie, FL 33314

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type):

____ Letter of Credit* ____ Performance Bond* ✓ Financial Guaranty Bond*

____ Insurance Certificate* ____ Financial Test ____ Trust Fund Agreement

*Indicate mechanisms that require use of a Standby Trust Fund Agreement

III. ESTIMATE (Complete either Part A or Part B):

Rule 62-710.800(6)(c), Florida Administrative Code (F.A.C.), sets forth the requirements for cost estimate calculation. Estimates adjusted for inflation are due annually between January 1 and March 1.

Part A – Inflation Factor Adjustment

An inflation adjustment using an inflation factor may only be used when recalculation is not required by rule. When inflation-factor adjusting, only page 1 of this form must be submitted. The appropriate inflation factor for adjusting an estimate may be obtained from the Solid Waste website –
http://FloridaDEP.gov/waste/permitting-compliance-assistance/content/solid-waste-financial-assurance
– or by sending a request to Solid.Waste.Financial.Coordinator@floridadep.gov

This estimate is based on the estimate dated 07 Jan 2021 (signature date) that was approved by the Department on 19 Jan 2021 (leave blank if not approved).

Last Year's Closing Cost Estimate:		Current Year Inflation Factor (e.g.1.0xx)		Inflation Adjusted Closing Cost Estimate:
$ 512,302.50	X	1.012	=	$518,450.13

Signature (representative of Owner/Operator) | 07 January 2022 Date | 407=859-4441 Telephone

Randy D. Troy, ETSC
Name and Title

RTroy@Triumvirate.com
E-mail

If you have questions concerning this form, please contact the Used Oil Permitting Coordinator at the address below or by phone at (850) 245-8707.

Please send this completed cost estimate to:
Used Oil Permitting Coordinator
Department of Environmental Protection
2600 Blair Stone Road MS 4560
Tallahassee, Florida 32399-2400

Please e-mail a copy of this completed cost estimate to:
Solid.Waste.Financial.Coordinator@floridadep.gov

Hartshorn, Justin T

From: Kothur, Bheem <Bheem.Kothur@FloridaDEP.gov>
Sent: Friday, January 7, 2022 1:53 PM
To: Troy,Randy D; Eldredge, Susan F
Cc: Smith, Michell M.; Irwin, Alannah; Ashwood, Janet; Ciaravella, Philip; Kromhout, Elizabeth; Farahani, Meysam; Kothur, Bheem
Subject: FW: Closure Cost Estimate
Attachments: 2022DavieUsedOilClosingCostEstimate.pdf

Hello Randy and all,

Attached is the closure cost estimate received, reviewed and approved for an amount of $518,450.00, for the Year 2022, for your UO/SW, facility at Davie, Florida.

Please contact Susan Eldredge(FA-Guru), in PCAP, at 850-245-8740 or email: susan.eldredge@floridadep to comply and update the FA- Mechanism of "Financial Guaranty Bond" for the above approved amount by on or before May 1, 2022.

If you have any questions with this approval, please let me know.

Sincerely,

Bheem R. Kothur, P.E., DEE
Hazardous Program and Permitting

From: Troy,Randy D <rtroy@triumvirate.com>
Sent: Friday, January 7, 2022 9:56 AM
To: Kothur, Bheem <Bheem.Kothur@FloridaDEP.gov>
Subject: Closure Cost Estimate

Please see the attached Used Oil Processing Closure Cost Estimate.

Randy D. Troy

Environmental, Transportation, Safety and Compliance Specialist
Triumvirate Environmental Services, Inc.
10100 Rocket Blvd
Orlando, FL 32824

260.416.4981


FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road MS 4548
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

February 21, 2022

Via e-mail: jmcquillan@triumvirate.com,

Mr. John McQuillan
Triumvirate Environmental Services, Inc.
3701 SW 47th Avenue, Suite 109
Davie, Florida 33314

Re: FLD 981 018 773 – Triumvirate Environmental Services, Inc.

Dear Mr. McQuillan:

I reviewed the documentation submitted to demonstrate financial assurance for the above referenced facility and find it is in order. U.S. Specialty Insurance Company bond rider, executed on February 2, 2022. increases the penal sum of guarantee bond number 1001066441 to $518,450.13. This adequately covers the Department approved closing cost estimates, dated January 7, 2022. In addition, your standby trust fund agreement with Webster Bank, National Association remains in good standing. Therefore, the Triumvirate Environmental Services, Inc. (Ft. Lauderdale) used oil facility is in compliance at this time with the financial assurance requirements of Rule 62-701.630, Florida Administrative Code, which adopts 40 CFR Part 264, Subpart H by reference.

Please contact me at (850) 245-8740 if you have any questions.

Sincerely,

SF Eldredge

Susan Eldredge
Government Operations Consultant II
Financial Assurance Working Group

cc: Bheem Kothur, DEP/Used Oil Program

Triumvirate Additional Closure Cost Estimate for 200 Drum Increase in Non-Haz Drums for Consolidation

Closure Cost Estimate Table											
Material	**Quantity**	**Estimated Weight (tons)**	**Disposal Facility**	**Disposal Cost per unit**	**Unit of Measure**	**Transporter**	**Loads**	**Transportation Cost per Load**	**Total Transportation Cost**	**Total Disposal Cost**	**Total Cost**
Non-Hazardous Solids	200, 55-gallon drums (450 lbs each)	45	Waste Management - Okeechobee Landfill	$ 35.00	Tons	Waste Management	3	$ 500.00	$ 1,500.00	$ 1,575.00	$ 3,075.00
											$ 3,075.00

Total Additional Cost	**$ 3,075.00**
10% Contingency	**$ 307.50**
Total Additional Closure Cost plus Contingency	**$ 3,382.50**

Used Oil and Material Processing Facility Permit Renewal Application

Attachment L: Training Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Employee Training

Training in accordance with the facility SPCC plan is conducted annually. A copy of the SPCC plan is included in this application as **Attachment J**. Training is also conducted to familiarize all employees with the facility Contingency Plan which is enclosed in this application as **Attachment I**.

RCRA (Resource Conservation and Recovery Act) training is conducted to educate employees on what kinds of materials are hazardous wastes and universal wastes so that these materials are not accepted as non-hazardous wastes and are not processed into the non-hazardous waste consolidation roll-off.

TESI has developed a Hazardous Materials DOT and Health and Safety Training program that was established to comply with OSHA and USDOT requirements while at the facility and while transporting hazardous materials. Descriptions of the OSHA or DOT trainings are available if requested by Department Staff. It is not presented at this time so emphasis can be given to training required under this used oil and solid waste permit application.

Written training records, including name of the employee, date and type of training, will be kept at the site for a minimum of 5 years.

Used Oil and Material Processing Facility
Permit Renewal Application

Attachment M: Unit Management

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Unit Management

All tanks and fill pipes will be marked with the words “Used Oil”. A table showing the details of the oil tanks is shown below. The Spill Prevention, Control and Countermeasure (SPCC) plan in **Attachment J** has additional details on the safe management of the tanks.

Oil Tank Table

Location/ID #	Capacity (gals)	Product Stored	Installation Date	Tank Diameter & Length	Tank Shell Thickness	Secondary Containment
AST #T1	8,000	Used Oil/Oily Water	01/89	8’ x 21.5’ H	3/8”	#1
AST #T2	8,000	Used Oil/Oily Water	01/89	8’ x 21.5’ H	3/8”	#1
AST# T3	6,000	Used Oil/Oily Water	04/89	8’ x 16’ H	3/8”	#1
AST #T4	6,000	Anti-Freeze	04/89	8’ x 16’ H	3/8”	#1
AST #T5	10,000	Used Oil/Oily Water	06/87	10’ x 18’ H	3/8”	#1
AST #T6	9,500	Used Oil/Oily Water	06/87	10.5’ x 14.6’ H	3/8”	#1
AST #T8	20,000	Used Oil/Oily Water	06/87	10.5’ x 31’ V	3/8”	#1
AST #T9	20,000	Used Oil/Oily Water	03/89	10.5’ x 31’ V	3/8”	#1
AST #T10	20,000	Used Oil/Diesel	06/87	10.5’ x 31’ V	3/8”	#1
AST #T11R	20,000	Used Oil/Oily Water *(Previous Tank 11 installed 06/87; old tank removed and new tank installed in 2014)*	2014	10.5’ x 31’ V	3/8”	#1
AST #T12	20,000	Used Oil/Oily Water	03/89	10.5’ x 31’ V	3/8”	#1
AST #T13	20,000	Used Oil/Oily Water	03/89	10.5’ x 31’ V	3/8”	#1
AST #T14	20,000	Used Oil/Oily Water	03/89	10.5’ x 31’ V	3/8”	#1
AST #T15	20,000	Used Oil/Oily Water	04/89	10.5’ x 31’ V	3/8”	#1
AST #T16	20,000	Used Oil/Oily Water	04/89	10.5’ x 31’ V	3/8”	#1
AST #T17	20,000	Used Oil/Oily Water	04/89	10.5’x 31’ V	3/8”	#1

Location/ID #	Capacity (gals)	Product Stored	Installation Date	Tank Diameter & Length	Tank Shell Thickness	Secondary Containment
AST #T18 or Mixer	6,500	Out of Service	04/89	8.5’ x 16’ V	3/8”	#1
AST #T7	10,000	Used Oil/Oily Water [process tank]	01/93	8’ x 26’ H	3/8”	#2
AST #T20	1,000	Out of Service	02/92	5.33’ x 6’ H	3/8”	#5
Warehouse Transfer Station/Storage	55-550 33,000 (total)	Hazardous and non-hazardous waste, occasionally 1-20 drums of oil filters or other petroleum materials. Cooking Oil Totes 250 gal to 550 gal	N/A	Variable	Variable	#8
Tanker Unloading	55-550	Cooking Oil Totes, Oil Filter or Other Petroleum Materials	N/A	Variable	Variable	#3
AST #T21	100,000	Used Oil/Oily Water	06/96	20’ x 31’ V	3/8”	#4
AST #T22	20,000	Used Oil/Oily Water [process tank]	01/14	10.5’ x 31’ H	3/8”	#4
FP&L Transformer*	55+	Mineral Oil	1990’s	Owned and operated by FPL	Owned and Operated by FPL	Owned and Operated by FPL

H = horizontal tank

V = vertical tank

*FPL would not acknowledge requests for information

Used Oil and Material Processing Facility Permit Renewal Application

Attachment N: Construction Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Construction Plans

There are no construction activities proposed as part of this permit renewal application. The last major construction was performed in 2014. The last as-built drawings for the site are shown in **Attachment N**.

CONSTRUCTION DOCUMENTS

JANUARY 3, 2014

PETROLEUM STORAGE TANK IMPROVEMENT

INSTALLATION OF 20,000-GALLON HORIZONTAL OIL TREAMENT ABOVEGROUND STORAGE TANK (AST) & CLOSURE AND REPLACEMENT OF 20,000 GALLON USED OIL AST

FOR

TRIUMVIRATE ENVIRONMENTAL (FLORIDA), INC.
3670 SW 47 AVENUE, DAVIE, FLORIDA 33314
(BROWARD COUNTY FACILITY NUMBER: 00055)
(FDEP ST FACILITY ID: 069102123)
(FDEP OPERATING PERMIT NUMBER: 77390-HO-008, 77390-SO-009)
(USEPA ID NUMBER: FLD 981 018773)

OWNER:

TRIUMVIRATE ENVIRONMENTAL (FLORIDA), INC.
3701 SW 47TH AVE, SUITE 109, DAVIE, FL. 33314
P: 954.583.3795 | F: 954.583.8017 |
CONTACT: JOHN (SHAWN) LENNON, JR., GENERAL MANAGER

DESIGNATED TEAM INFORMATION:

GEOTECH ENVIRONMENTAL, INC
7737 N. UNIVERSITY DRIVE, SUITE 206, TAMARAC, FL 33321
P: 954.597.9100 | F: 954.597.9191
CONTACT: NEIL LAKHLANI, PROJECT MANAGER
(POLLUTANT SYSTEM SPECIALTY CONTRACTOR
(PCC NUMBER: PCC1256803)
(STATE OF FLORIDA PROFESSIONAL ENGINEERING LICENSE NUMBER 7396)

IDEAL MAINTENANCE, INC. (ELECTRICAL CONTRACTOR)
17731 77 LANE NORTH, LOXAHATCHEE, FL 33470
CONTACT: COGGINS, MICHAEL W

REGULATORY AGENCIES:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)
BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD, TALLAHASSEE, FLORIDA 32399-2400

BROWARD COUNTY ENVIRONMENTAL PROTECTION & GROWTH MANAGMENT
Storage Tank Division
Development Review Services
Environmental Review Services
1 North University Drive, 102A
Plantation, FL 33324
P: 954.357.6666

TOWN OF DAVIE BUILDING DEPARTMENT
6591 Orange Drive, Davie, FL 33314
P:954.797.1111
CONTACT: BRIAN DILLON, BUILDING OFFICIAL

SUBMISSIONS:

2 3-12-14-'AS BUILTS'

Project No. 021322	Phase: Construction Documents
Drawing Title:	COVER SHEET
Sheet No.	1
Date:	January 3, 2014

ABBREVIATIONS:

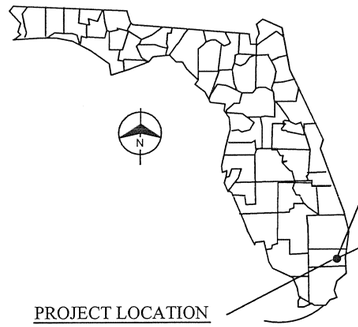
CL	CENTER LINE
UP	UTILITY POLE
LP	LIGHT POLE
(OH)	OVER HEAD
(TYP)	TYPICAL
COV	COVERED
ASPH	ASPHALT
CONC	CONCRETE
S/W	SIDE WALK
WF	WOOD FENCE
CLF	CHAIN LINK FENCE

MATERIALS SYMBOLS:

- CONCRETE
- POROUS FILL
- EARTH
- METAL
- WOOD

LOCATION MAP:

VICINITY MAP
NOT TO SCALE



PROJECT LOCATION

TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47TH AVENUE
DAVIE, FL 33314
FOLIO NO. 5041 25 27 0010

LATITUDE
26 04' 34" N
LONGITUDE
80 12' 32" W

LEGAL DESCRIPTION

I.R.R. PLAT 158-4B
PARCEL A

ZONING: M-4
(HAC VIII)

NOTES:

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Sunshine State One Call of Florida, Inc.

DRAWING NOTE

EXISTING INFORMATION HAS BEEN OBTAINED FROM THE BEST AVAILABLE SOURCE. THE LOCATIONS OF THE BUILDINGS, TANKS, AND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THESE DRAWINGS ARE NOT GUARANTEED BY GEOTECH ENVIRONMENTAL, INC., TO BE ACCURATE AND UNLESS OTHERWISE INDICATED, SHOULD BE USED FOR REFERENCE ONLY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SITE CONDITIONS PRIOR TO WORK UNDER THIS SITE PLANS

SYMBOLS:

- SECTION KEY (A / FIG 2)
- DETAIL KEY (1 2 3 4)
- REVISION/ADDENDUM (1)
- NORTH ARROW (N)

LIST OF DRAWINGS:

GENERAL

1	COVER	11	PRODUCT PIPING
2	SITE & VICINITY MAP	12	STEAM PIPING
3	GENERAL NOTES	13	STEAM PIPING SCHEMATIC
4	SCOPE OF WORK	14	ELECTRICAL DETAIL
5	EQUIPMENT SPECIFICATIONS		
6	SITE MAP		
7	CLOSURE PLAN		
8	INSTALL PLAN		
9	20,000-GAL HORIZONTAL TANK		
10	20,000-GAL VERTICAL TANK		

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT

Revisions:
1 3-12-14-'AS BUILTS'

GEOTECH ENVIRONMENTAL
BOARD OF PROFESSIONAL ENGINEERS CA No 7396
7737 North University Drive, suite 206
Tamarac, Florida 33321
Tel. 954-597-9100
www.GeoTech-usa.com

Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer:	Drawn By:	Checked By:	Scale: 1 inch = 20 feet on 11x17	Date:
SLB	SLB	N.L.		01-03-2014

Project Number:
021322

Title:
SITE & VICINITY MAP

Sheet Number:
FIGURE 2

NOTES

1. "OWNER" AS USED IN THESE DOCUMENTS REFERS TO:
   TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC.
   3701 SW 47TH AVE, SUITE 109, DAVIE, FL. 33314
   "CONTRACTOR" AS USED IN THESE DOCUMENTS REFERS TO:
   GEOTECH ENVIRONMENTAL, INC. (GEOTECH)
   7737 N. UNIVERSITY DRIVE, SUITE 206
   TAMARAC, FLORIDA 33321

2. ALL WORK SHALL COMPLY WITH APPLICABLE CODES, AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC., THAT ARE REQUIRED BY PUBLIC AUTHORITIES IN EFFECT AT THE TIME THE WORK IS PERFORMED. THE CONTRACTOR SHALL COMPLY WITH ALL ACCEPTABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF PUBLIC BODIES HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS, INCLUDING, WITHOUT LIMITATION, THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (PL-91-595) AND UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARD ACT OF (PL 91-54) AND AMENDMENTS THERE TO. TANKS SHALL COMPLY WITH NFPA 30, AND BE APPROVED BY BCFCC AND BORA.

3. ALL WORK WILL BE PERFORMED BY A STATE OF FLORIDA CERTIFIED POLLUTION SYSTEM SPECIALTY CONTRACTOR (PSSC) AND STATE OF FLORIDA LICENSED ENGINEER.

4. THE OWNER WILL REIMBURSE THE CONTRACTOR FOR ANY/ALL REQUIRED PERMITS, LICENSES, AND INSPECTION FEES, NECESSARY. OWNER SHALL ORDER AND SCHEDULE THE TANKS, TANK ACCESSORIES, AND BOILER EQUIPMENT DELIVERY IN AMPLE TIME TO AVOID DELAYS IN CONSTRUCTION. IF ANY ITEM IS FOUND TO BE UNAVAILABLE OR HAVE A LONG LEAD TIME, THE OWNER SHALL NOTIFY THE CONTRACTOR IN WRITING IMMEDTAELY.

5. THE CONTRACTOR IS FAMILIAR WITH THE CONDITIONS OF THE BUILDING SITE BEFORE CONDUCTING WORK AT THE SITE.

6. BEFORE COMMENCEMENT OF WORK, THE CLIENT WILL PROVIDE A CURRENT SURVEY OF THE BUILDING SITE AND WILL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS.

7. THE CONTRACT DOCUMENTS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/CONTRACTOR WHETHER HE PROJECT FOR WHICH THEY ARE EXECUTED OR NOT. THE CONTRACT DOCUMENTS ARE NOT TO BE USED BY THE OWNER FOR OTHER PROJECTS OR EXTENSIONS TO THE PROJECT NOR ARE THEY TO BE MODIFIED IN ANY MANNER WHATSOEVER EXCEPT B AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATON TO THE ARCHITECT/CONTRACTOR. THE PLANS AND SPECIFICATIONS ARE BASED UPON THE TYPES OF STRUCTURE/S SHOWN IN THE DRAWINGS LISTED IN THE INDEX OF DRAWINGS. IN THE EVENT OF MODIFICATION/S BY THE OWNER, THE CONTRACTOR AND THE SUBCONTRACTOR/S ASSIGNED BY THE CONTRACTOR WILL BE HELD HARMLESS AND ALL PARTIES WAIVE ALL RIGHTS AGAINST THE CONTRACTOR. FURTHER. NO ADDITIONAL CLAIMS WILL BE AUTHORIZED AS A RESULT OF SUCH MODIFICATION. THE CONTRACTOR WILL BE RELEASED FROM ALL LIABILITY ASSOCIATED WITH ANY OF SUCH MODIFICATION. ANY REPRODUCTION OF THIS ENGINEERED DOCUMENT WITHOUT THE PRIOR CONSENT OF THE "ENGINEER OF RECORD" IS STRICTLY PROHIBITED.

8. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. WHERE DISCREPANCIES EXIST WITHIN THE DRAWINGS, ENLARGED SCALE DRAWINGS/DETAILS WILL GOVERN OVER SMALLER SCALE DRAWINGS AND THE SPECIFICATIONS WILL GOVERN OVER ALL. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERSEDE IN ALL CASES.

9. ALL FEATURES NOT LABELED AS "NEW", "PROPOSED", OR "TO BE REMOVED" WILL BE CONSIDERED TO BE "EXISTING TO REMAIN".

10. NO EXCAVATION WILL BE PERFORMED ON THIS PROJECT. HOWEVER, SHOULD IT BE NECESSARY, THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE 1-CALL (1-800-432-4770) 48 HOURS PRIOR TO ANY EXCAVATION ON SITE. ALL UTILITY LOCATIONS ARE APPROXIMATE. OWNER WILL PROVIDE ANY/ALL UTILITY INFORMATION I.E., CONDUITS, ON SITE ELECTRIC, DRAINAGE, PRODUCT PIPING, ETC. PRIOR TO COMMENCEMENT OF ANY EXCAVATION.

11. THE CONTRACTOR WILL NOTIFY THE LOCAL AND COUNTY FIRE DEPARTMENT AND BUILDING DEPARTMENT 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY PROPOSED CONSTRUCTION.

12. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "AS BUILT" DRAWINGS TO SCALE DEPICTING PRECISE LOCATIONS OF ALL COMPONENTS INSTALLED (INCLUDING PRODUCT LINE SIZES, LOCATIONS, CONDUCT SIZES, AND LOCATIONS).

CONSTRUCTION GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH DRAWINGS BY ENGINEERS FOR ALL AFFECTED DISCIPLINES.

2. THE CONTRACTOR SHALL CHECK AND COORDINATE THE WORK OF VARIOUS TRADES TO PREVENT ANY CONFLICTS.

3. THE CONTRACTOR WILL ENSURE THAT ALL MATERIALS AND EQUIPMENT INCORPORATED IN THE WORK WILL BE NEW AND ALL WORK WILL BE OF GOOD QUALITY, FREE FROM FAULTS AND IN CONFORMANCE WITH THE PLANS.

4. THE STORAGE TANK AND SYSTEM COMPONENTS SHALL BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), STORAGE TANKS, PIPING, AND SYSTEM COMPONENTS WILL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND MANUFACTURER REQUIREMENTS.

5. CONTRACTOR SHALL FURNISH AND PLACE PROPER GUARDS FOR PREVENTION OF ACCIDENTS. ALL TRENCH AND EXCAVATION SHORING, SCAFFOLDING, SHIELDING, DUCT/FUME PROTECTION, MECHANICAL/ELECTRICAL PROTECTION, SPECIAL GROUNDING. SAFETY RAILING, BARRIERS OR OTHER SAFETY FEATURES REQUIRED TO SECURE THE SAFETY OF LIFE OR PROPERTY.

6. NO EXCAVATION WILL BE PERFORMED ON THIS PROJECT. HOWEVER, SHOULD IT BECOME NECESSARY TO CONDUCT ANY EXCAVATION, THE OWNER SHALL BE RESPONSIBLE FOR INSTALLING, MAINTAINING, AND REMOVING ANY AND ALL EROSION CONTROL MEASURES AND SEDIMENT CONTROL DEVICES NECESSARY TO PREVENT SOIL EROSION AND/OR SEDIMENT FROM BEING TRANSPORTED OFF-SITE AND INTO ANY DRAINAGE SYSTEMS, VEGETATED AREAS, AND/OR ROADWAYS.

7. THE CONTRACTOR SHALL BE AWARE THAT SOILS AND GROUNDWATER SUBJECT TO THIS SCOPE OF WORK MAY CONTAIN IIAZARDOUS CHEMICAL CONSTITUENTS. ALL MATERIALS EXCAVATED AND REQUIRING OFF-SITE DISPOSAL SHALL BE TESTED AND HANDLED IN ACCORDANCF WHIT RULE 62-780, FLORIDA ADMINISTRATIVE CODE (F.A.C). PERSONAL PROTECTION HIGHER THAN A LEVEL D MAY BE REQUIRED IN PERFORMING A PORTION OR ALL OF THIS SCOPE OF WORK.

8. ALL BOLTS, CLIPS, HANGERS ETC. SHALL. BE GALVANIZED (G90 MINIMUM). ALL WOOD SHALL BE PRESSURE TREATED. ALL FORMS SHALL BE WET JUST PRIOR TO PLACING CONCRETE. ALL BOLTS, ANCHIORS, FASTENERS ATTACHMENTS, ETC. SHALL BE TYPE 316L STAINLESS STEEL.

9. INSTALL EQUIPMENT AND SYSTEMS IN NEAT AND PROFESSIONAL MANNER: INSTALL EQUIPMENT AND PARTS THAT ARE EASILY ACCESSIBLE FOR INSPECTION, OPERATION, MAINTENANCE AND REPAIR.

10. UPON COMPLETION OF ALL INSTALLATION ACTIVITIES, THE CONTRACTOR WILL PERFORM BASIC JOB SITE CLEANUP AS IT RELATES SPECIFICALLY TO THIS PROJECT.

ELECTRICAL GENERAL NOTES:

1. ALL ELECTRICAL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE NATIONAL FIRE PROTECTION ASSOCIATION-70 (NFPA-70), NATIONAL ELECTRICAL CODE, AND OTHER APPLICABLE CODES AND STANDARDS. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR EVALUATING FIELD CONDITIONS BY VISITING THE SITE PRIOR TO COMMENCING/BIDDING WORK. ELECTRICAL CONTRACTOR

2. ALL MATERIALS SHALL BE U.L. APPROVED. ALL BRANCH CIRCUITS SHALL BE PROPERLY PHASE BALANCED. ALL EMPTY CONDUITS TO BE PROVIDED WITH NYLON PULL STRINGS. ALL LUMINARIES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE W1TH THE MANUFACTURER RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.

3. THESE DRAWINGS ARE A GUIDE FOR THE INSTALLATION OF ELECTRICAL SERVICE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.

4. ALL CABLES SHALL BE RUN WITHOUT SPLICES EXCEPT OTHERWISE INDICATED. ALL PULL AND JUNCTION BOXES SHALL BE ACCESSIBLE AT ALL TIMES. EXACT POINT AND METHODS OF CONNECTION SHALL BE DETERMINED IN FIELD. ALL PULL AND JUNCTION BOXES SHALL BE ACCESSIBLE AT ALL TIMES. ALL WORK SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER.

GENERAL DEMOLITION NOTES:

1. SCOPE OF DEMOLITION INVOLVES REMOVAL AND DISPOSAL OF ONE. 12.000 GALLON VEHICULAR DIESEL AND ONE 10,000 GALLON UNLEADED GASOLINE UNDERGROUND STORAGE TANKS. ASSOCIATED PIPING. TWO DISPENSERS. AND ANCILLARY EQUIPMENT.

2. THE EXISTING CONDITION/DEMOLITION IS SHOWN IN SHEET No. EE1.6 AND IS INTENDED AS A GENERAL GUIDE TO THE DEMOLITION REQUIRED FOR THIS PROJECT

3.

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT

Revisions:
3-12-14-"AS BUILTS"

GEOTECH ENVIRONMENTAL
BOARD OF PROFESSIONAL ENGINEERS CA No 7396
7737 North University Drive, suite 206
Tamarac, Florida 33321
Tel. 954-597-9100
www.GeoTech-usa.com

Client: TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer:	Drawn By:	Checked By:	Scale: NTS	Date:
SLB	SLB	N.L.		01-03-2014

Project Number: 021322

Title: GENERAL NOTES

Sheet Number: FIGURE 3

SCOPE OF WORK

THE WORK DESCRIBED BELOW INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

THE SCOPE OF WORK INVOLVES CLOSURE VIA REMOVAL OF ONE (1) 20,000 GALLON SINGLE WALLED ABOVEGROUND USED OIL-MATERIAL STORAGE TANK (AST) (T-11), INSTALLATION OF ONE (1) EQUIVALENT 20,000 GALLON SINGLE WALLED VERTICAL AST (T-11A), INSTALLATION OF ONE (1) 20,000 GALLON SINGLE WALLED HORIZONTAL CYLINDRICAL AST (T-22), AND APPROVED EQUIPMENT, ASSOCIATED SINGLE WALL STEAM SYSTEMS & FUEL OIL PIPING, AND APPURTENANCES.

THE FACILITY CURRENTLY CONSISTS OF SEVENTEEN (17) TANKS RANGING FROM 1,000 GALLONS TO 20,000 GALLONS AND ONE (1) 100,000 GALLON TANK. THE FACILITY IS AUTHORIZED TO STORE AND USE A TOTAL OF 358,000 GALLONS OF USED OIL IN THE ABOVE GROUND STORAGE TANKS AND RELATED APPURTENANCES CURRENTLY IN USE AT THE FACILITY. THE STORAGE TANK FARMS ARE LOCATED OUTDOORS, FENCED, AND/OR WALLED ON ALL SIDES WITH SEPARATE CONCRETE FLOOR SECONDARY CONTAINMENT STRUCTURES. BASED ON THE CURRENT PERMIT, DATED MAY 7, 2013, THE FACILITY IS AUTHORIZED TO PROCESS USED OIL, OILY WASTEWATER, OILY SOLID WASTE, USED OIL FILTERS, AND COLLECT PETROLEUM CONTACT WATER. NON-HAZARDOUS WASTE WATER IS COLLECTED AND TRANSFERRED INTO A 100,000-GALLON SURGE TANK DESIGNATED AS TANK T-21, THEN FILTERED, THEN HEATED FOR OIL/WATER SEPARATION (WATER FRACTION ONLY), AND THEN TRANSFERRED TO AN OFFSITE INDUSTRIAL WASTE WATER PRE-TREATMENT FACILITY FOR TREATMENT AND DISPOSAL. GEOTECH UNDERSTANDS THAT THE CLIENT HAS A DESIRE TO INCREASE THE PROCESSING OF USED OIL FROM THE EXISTING +/-10,000 GALLON CAPACITY IN THE EXISTING HORIZONTAL TANK T-7 TO A TOTAL OF +/-30,000 GALLON THRESHOLD CAPACITY WHILE UTILIZING THE EXISTING FULTON VERTICAL MULTI-PORT GAS FIRED STEAM BOILER, PARTIAL EXISTING STEAM PIPING, AND USED OIL SUPPLY AND RETURN LINES AT THE FACILITY.

TASK 1 - CLOSURE OF OLD 20,000 GALLON VERTICAL AST (T-11)

T-11 IS A 20,000-GALLON AST (10.5' DIAMETER X 31' HIGH) AND LOCATED IN A SECONDARY CONTAINMENT #1. IT WAS INSTALLED IN CIRCA 1987 AND HAS BEEN OUT OF SERVICE SINCE NOVEMBER 6, 2003. PURSUANT TO PARAGRAPH 62-4.050(4)(S), F.A.C., GEOTECH CONSIDERS REPLACEMENT OF EXISTING TANK WITH NEW TANK OF SAME SIZE AS A MINOR MODIFICATION THAT WILL NOT REQUIRE SUBSTANTIAL TECHNICAL EVALUATION BY THE FDEP, NOR WILL IT REQUIRE A NEW SITE INSPECTION, AND WILL NOT LEAD TO SUBSTANTIALLY DIFFERENT ENVIRONMENTAL IMPACTS AND WILL LESSEN THE IMPACTS OF THE ORIGINAL PERMIT. GEOTECH HAS LEARNED FROM CONVERSATIONS WITH FDEP, THAT A $250.00 PERMIT FEE WILL BE REQUIRED AS A MINOR MODIFICATION TO THE EXISTING PERMIT BY THE FDEP.

TASK 2 - INSTALLATION OF NEW PERMANENT 20,000 GALLON VERTICAL AST (T-11A)

GEOTECH PROPOSES TO INSTALL ONE (1) 20,000-GALLON ABOVEGROUND SINGLE WALL CYLINDRICAL VERTICAL ATMOSPHERIC STORAGE TANK, FLAT BOTTOM, CONICAL TOP (2/12), STANDARD FITTINGS, 24" ROOF MAN-WAY, 24" SHELL MAN-WAY, WITH (6) HOLD DOWN CHAIRS FOR ANCHORING TO THE EXISTING CONCRETE, AND PAINTED WITH UNIVERSAL RED PRIMER. THE TANK WILL BE IN THE SAME LOCATION OF THE PREVIOUS TANK AREA AND HAVE SIMILAR AST MAN-WAY, PIPING SIZE AND TYPE, AND FITTING CONFIGURATIONS TO THE OLD AST SYSTEM.

BEFORE BEGINNING WORK, GEOTECH WILL PROVIDE ALL NEW TANK AND EQUIPMENT SPECIFICATION LIST FOR CLIENT REVIEW AND APPROVAL (SEE TABLE 1 IN TASK 5 FOR EQUIPMENT LIST). CLIENT WILL MAKE ALL PAYMENTS FOR THE NEW EQUIPMENT ITEMIZED IN TABLE 1 TO THE SUPPLIERS. CLIENT WILL BE RESPONSIBLE FOR COMMUNICATING WITH THE VENDORS SUPPLYING EQUIPMENT ON PRICING, PAYMENT AND TIMELY DELIVERY SCHEDULE PROPOSED BY GEOTECH. ALL WARRANTIES ON THE LISTED EQUIPMENT ARE BETWEEN VENDOR AND CLIENT. ALL WORK WILL BE CONDUCTED IN ACCORDANCE TO THE PROPOSED ENGINEERING PLANS DISCUSSED IN TASK 2. ALL PHASES OF THE TANK, PRODUCT LINE, AND EQUIPMENT INSTALLATION SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS AND STANDARDS. THE TANK WILL BE ANCHORED TO THE EXISTING CONCRETE TO MEET THE ENGINEERING PLANS SPECIFICATIONS. EXCEPT AS OTHERWISE SPECIFIED AND ALSO IN TABLE 1, ALL EQUIPMENT SUPPLIED BY GEOTECH WILL BE GUARANTEED TO THE FULLEST EXTENT OF THE MANUFACTURER'S WRITTEN WARRANTY. ALL INSTALLATION WORK WILL BE GUARANTEED AGAINST DEFECTS IN WORKMANSHIP FOR ONE YEAR FROM THE DATE OF START-UP. ELECTRICAL WORK IS NOT PROPOSED FOR THIS PHASE OF TASK 4. TANK LABELING WILL BE CONDUCTED BY THE CLIENT. GEOTECH ASSUMES THAT THE EXISTING CONCRETE STRENGTH IS WITHIN GUIDELINES THAT MEET OR EXCEED THE TANK MANUFACTURER AND REGULATORY REQUIREMENTS. PRODUCT LINE INTEGRITY TESTING WILL BE CONDUCTED AT VARIOUS STAGES DURING INSTALLATION PROCESS.

TASK 3 - INSTALLATION OF NEW PERMANENT 20,000 GALLON HORIZONTAL PROCESS AST (T-22)

THE PROPOSED AREA FOR THE NEW T-22 AST REQUIRES REMOVAL OF APPROXIMATELY EIGHT (8) EXISTING CONCRETE PADS APPROXIMATELY 5 SQUARE FEET CURRENTLY LOCATED IN SECONDARY CONTAINMENT #4 AND WITHIN THE PROPOSED NEW AST T-22 AREA. THE SCOPE OF WORK WILL INCLUDE PROPER DISPOSAL OF CONCRETE AND ADEQUATELY GRADING OF THE NEW TANK PAD AREA SPECIFIC TO THE TANK SADDLE LOCATION. CONCRETE STRENGTH TESTING IS NOT PROPOSED AND GEOTECH ASSUMES THAT THE EXISTING CONCRETE CONSIST OF AT A MINIMUM, WITHIN THE GUIDELINES THAT MEET OR EXCEED THE TANK MANUFACTURER'S AND REGULATORY REQUIREMENTS.

UPON CONCRETE SLAB REMOVAL, GEOTECH PROPOSES TO INSTALL CLIENT PROVIDED ONE (1) 20,000 GALLON ABOVEGROUND SINGLE WALLED UL-142 CYLINDRICAL ATMOSPHERIC STORAGE TANK, (2) PLATE SADDLES WELDED ON, STANDARD NPT TANK FITTINGS, (3) 24" MAN-WAYS, EPOXY PRIMER WITH A WHITE URETHANE EXTERIOR FINISH. THE TANK WILL INCLUDE A 14-FEET LONG TANK TOP CATWALK WITH STAIRS (ALL ITEMS CONSTRUCTED OF STEEL & HOT DIPPED GALVANIZED). KEY EQUIPMENT LIST IS PROVIDED BELOW IN TABLE 1. AS INDICATED, CLIENT WILL BE RESPONSIBLE FOR TIMELY PAYMENTS TO VENDORS FOR THE NEW EQUIPMENT ITEMIZED IN TABLE 1 AND DELIVERY OF EQUIPMENT TO THE FACILITY. ALL WARRANTIES ON THE LISTED EQUIPMENT ARE BETWEEN VENDOR AND CLIENT. THE TANK MANUFACTURER WILL FABRICATE INSIDE THE TANK WITH APPROXIMATELY +/-275 LINEAR FEET (LF) OF +/-2-INCH DIAMETER SCHEDULE 40 PIPE COIL (STRAIGHT RUNS WITH 180 DEGREES RETURNS EACH SET CONSISTING OF EIGHT (8) RUNS OF PIPE (EACH PIPE APPROX. 33'-6" LONG) STEAM BOILER PIPING LOCATED AT THE BOTTOM OF THE TANK THAT MEETS THE ASTM SPECIFICATIONS REQUIRED FOR CONNECTION TO THE EXISTING FULTON VERTICAL MULTI-PORT GAS FIRED STEAM BOILER. GEOTECH WILL UTILIZE EXISTING PIPING ALREADY IN PLACE WITHIN SECONDARY CONTAINMENT #4. GEOTECH WILL RETAIN A FLORIDA LICENSED ELECTRICIAN TO PROVIDE ELECTRICAL CONNECTION TO THE NEW STORAGE SYSTEM WHICH SHALL INCLUDE. GEOTECH ASSUMES THAT THE FACILITY HAS SUFFICIENT LOAD AND WILL NOT REQUIRE SEPARATE 120/240 PHASE CIRCUIT PANEL FOR THE NEW TANK EQUIPMENT. ALL ELECTRICAL WORK WILL BE CONDUCTED IN ACCORDANCE TO THE NATIONAL ELECTRICAL CODE, NFPA 70, NATIONAL FIRE PROTECTION ASSOCIATION AND LOCAL CODES. THE ELECTRICAL CONTRACTOR PROPOSES TO CONDUCT THE FOLLOWING:

RUN NEW CONDUITS AND CONDUCTORS FOR THE NEW AST, PUMPS, AND MIXERS
INSTALL ELECTRICAL RACK AND TIE INTO HOME RUN CONDUITS AT EXISTING ELECTRICAL LOCATION. THE ELECTRICIAN WILL RUN ELECTRICAL WIRES TO EXISTING GUTTER ALREADY IN PLACE FOR THE BOILER AND PULL NEW CONDUCTORS FROM GUTTER TO TANK.
PULL NEW CONDUCTORS FOR TANK PUMPS, MOTORS TO BUILDING RELAYS AND PULL NEW POWER FEEDS AS PER SPECIFICATIONS AND NATIONAL ELECTRICAL CODE. MAKE CONNECTIONS AND PROPERLY LABEL CABLES. THE SCOPE OF WORK INCLUDES INSTALLATION OF NEW ISOLATION RELAYS FOR PUMPS AND MOTORS AND WIRE INTO SYSTEM AND CONNECTIONS AS PER SPECIFICATIONS.

TANK AND ALL PRODUCT LINE TESTING WILL BE CONDUCTED AT VARIOUS STAGES DURING INSTALLATION PROCESS. ALL SENSORS TANK GAUGES, AND PUMPS WILL BE VERIFIED FOR PROPER OPERATION. IF ANY EQUIPMENT IS FOUND TO BE FAULTY AND OR DEFECTIVE, CLIENT AT THEIR EXPENSE WILL BE RESPONSIBLE FOR RE ORDERING THE EQUIPMENT. AS A RESULT, ANY DELAYS CAUSED BY CLIENT AT THIS TIME WILL RESULT IN JOB STOPPAGE AND A CHANGE ORDER WILL BE ISSUED. GEOTECH WILL PROVIDE CLIENT "AS-BUILT" INSTALLATION DRAWINGS, AS WELL AS RECOMMENDED TEST PROCEDURES, MAINTENANCE SCHEDULES UPON FIELD VERIFICATION, REGULATORY APPROVALS, AND COMPLETION OF STARTUP.

HAZARD IDENTIFICATION SIGNS

AS REQUIRED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODE 704, "STANDARD SYSTEM FOR THE IDENTIFICATION OF THE HAZARDS OF MATERIALS FOR EMERGENCY RESPONSE" CURRENT EDITION: 2007 (NEXT REVISION CYCLE: ANNUAL 2011), CLIENT WILL PROVIDE APPROPRIATE LABELING REQUIREMENTS FOR THE USED OIL (T-11R). TANK WILL ALSO HAVE THE FOLLOWING LABELING IN 3-INCH LETTERING (DECAL). THE LABEL SPECIFICATIONS WILL DESCRIBE EACH TANK BY SIZE, CONTENTS, AND USE. FOR EXAMPLE AN 20,000 GALLON ABOVE GROUND EQUIPMENT USED OIL TANK WILL BE SHOWN AS (20K-AST-UO), ETC. THE PLACARDS SHOWN BELOW WILL BE PLACED ON ALL FOUR SIDES OF THE TANK.

(14) DIESEL PLACARD

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT

Revisions:
3-12-14-'AS BUILTS'

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3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer:	SLB	Checked By:	N.L.	
Drawn By:	SLB	Scale:	NTS	
		Date:		01-03-2014

Project Number: 021322

Title: SCOPE OF WORK

Sheet Number: FIGURE 4

EQUIPMENT SPECIFICATION SHEET

No.	Product	Manufacturer	EQ No	No.	Product	Manufacturer	EQ No
1	20,000 GAL. HORIZONTAL ABOVE GROUND TANK	MODERN WELDING CO.	352				
2	20,000 GAL. VERTICAL ABOVE GROUND TANK	MODERN WELDING CO.	352				
3	ONE OPEN ATMOSHERIC VENT OPW 23-0055	OPW	NA				
4	ONE 10 HP ELECTRIC TRANSFER PUMP	ROPER	NA				
5	TWO 2 HP ELECTRIC MIXERS FGP-200	SHARPE	NA				
6	ONE STEAM PUMP	SPIREX SARCO	NA				
7	3" GALV. SCH. 40 SUPPY & RETURN PIPE	A&B PIPING SUPPLY	NA				
8	PIPE FITTINGS	A&B PIPING SUPPLY	NA				
9	FIRE MARSHALL SIGN - WARNING	NFPA - 30A	NA				

NA: NOT APPLICABLE

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Engineer:	Drawn By:	Checked By:	Scale:	Date:
SLB	SLB	N.L.	NTS	01-03-2014

Project Number:
021322

Title:
EQUIPMENT SPECIFICATION SHEET

Sheet Number:
FIGURE 5

SW 36th STREET (OAKES RD)

SW 47th AVENUE

N 0 38' 07" W 230.68'

6-FOOT HIGH CONCRETE FENCE

N 88 41' 58" E 408.93'

PROPERTY LINE

X" IRSCAP LB #337

Grass

BOILER

STORAGE

EXISTING CONCRETE SLAB

EXISTING 1 STORY METAL BUILDING

CONCRETE

B
FIG 8

HOLDING TANK 21

CONTAINMENT AREA 4

GRAVEL PARKING

OFFICE TRAILER

ELECTRICAL PANELS

STAIRS

Grass

10-FOOT UTILITY EASMENET

S 01 39' 20" E 250.00'

FOUR D'S REALTY
4100 SW 47TH AVE
DAVIE, FL 33314
FOLIO 504125340010

GATE ENTRANCE

CONCRETE

6-FOOT-HIGH CHAIN LINK FENCE

TRUCK LOAD AND UNLOAD AREA

ASPHALT BERM

AST 1
AST 2
AST 3
AST 4
AST 5
AST 6
AST 7
AST 8
AST 9
AST 10
AST 11
AST 12
AST 13
AST 14
AST 15
AST 16
AST 17
AST 18

EXISTING CONCRETE SLAB

DRY RETENTION AREA

HOLDING TANK 7

A
FIG 7

S 88 41' 58" W 434.17'
WP REAL ESTATE INVESTMENTS, LLC
FOLIO 504125280010

CONTAINMENT AREA 3

CONTAINMENT AREA 2

CONTAINMENT AREA

LEGAL DESCRIPTION
I.R.R. PLAT 158-4 B PARCEL A

NOTES:

GROSS SITE AREA: 110,670 SQ FT
EXISTING ZONING: M-4
FLOOD ZONE: UNKNOWN
THERE ARE NO ENVIRONMENTAL SENSITIVE AREAS ON THIS SITE. ELEVATIONS WERE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929, BROWARD COUNTY.

THIS MAP WAS RE-CONSTRUCTED FROM (CLIENT PROVIDED) A DRAWING CREATED BY KEITH & SCHNARS DATED JANUARY 7, 2000.

0 40 FEET

SCALE
1" = 40 FEET

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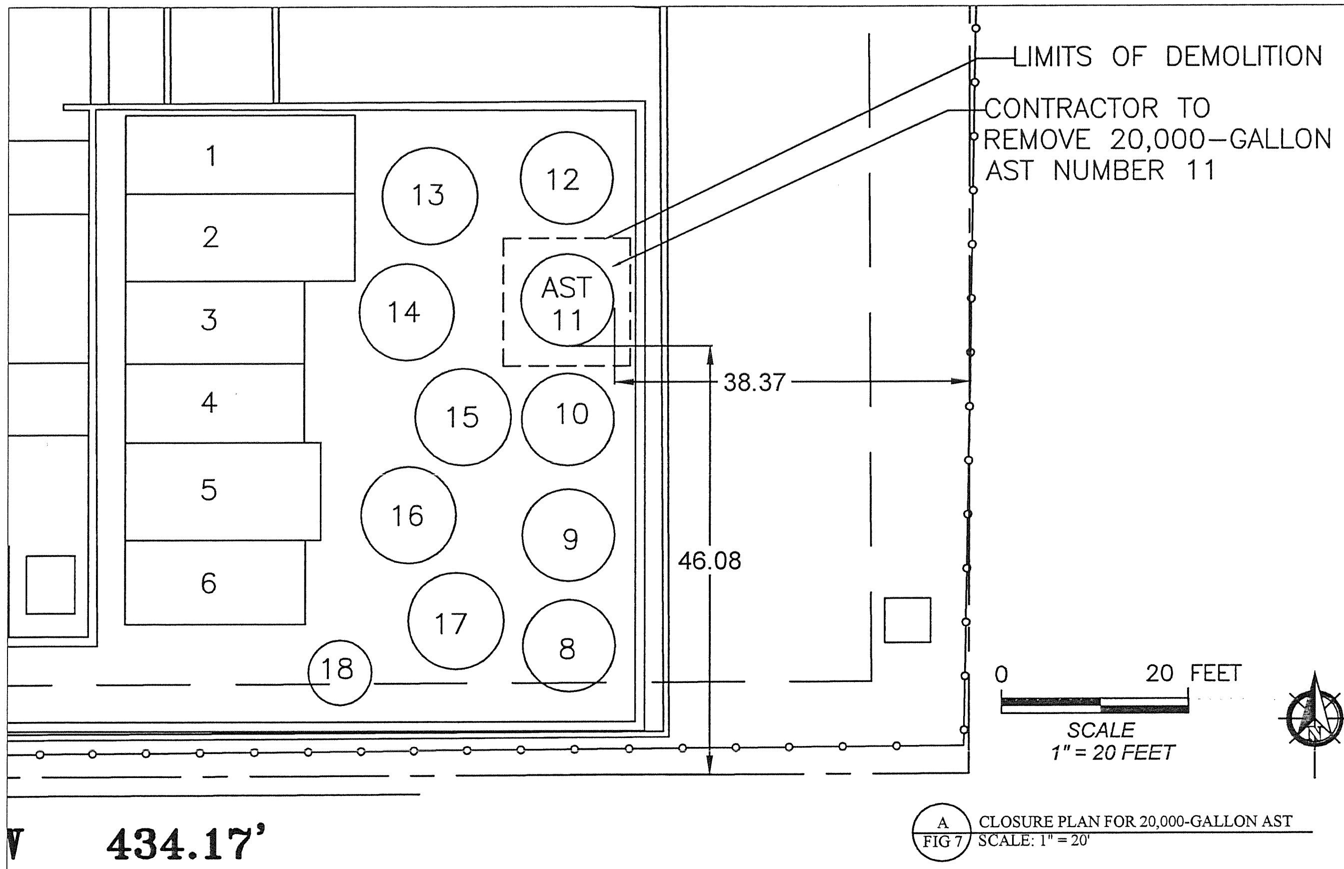
Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch =40 feet on 11x17
Date:	12-12-2013

Project Number: 021322

Title: SITE PLAN

Sheet Number: FIGURE 6

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



A / FIG 7 CLOSURE PLAN FOR 20,000-GALLON AST
SCALE: 1" = 20'

Location	Capacity (gals)	Product Stored	Install Date	Tank Diameter & Length	Tank Shell Thickness	Secondary Containment
AST #T1	8,000	Used Oil	01/89	8' x 21.5' H	3/8"	#1
AST #T2	8,000	Used Oil	01/89	8' x 21.5' H	3/8"	#1
AST #T3	6,000	Used Oil	04/89	8' x 16' H	3/8"	#1
AST #T4	6,000	Anti-Freeze	04/89	8' x 16' H	3/8"	#1
AST #T5	10,000	Used Oil	06/87	10' x 18' H	3/8"	#1
AST #T6	9,500	Used Oil	06/87	10.5' x 14.6' H	3/8"	#1
AST #T8	20,000	Used Oil	03/89	10.5' x 31' V	3/8"	#1
AST #T9	20,000	Used Oil/Oily Water	06/87	10.5' x 31' V	3/8"	#1
AST #T10	20,000	Used Oil/Diesel	06/87	10.5' x 31' V	3/8"	#1
T11	20,000	Out of Service	03/89	10.5' x 31' V	3/8"	#1
T12	20,000	Used Oil	03/89	10.5' x 31' V	3/8"	#1
T13	20,000	Used Oil	03/89	10.5' x 31' V	3/8"	#1
T14	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
T15	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
T16	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
T17	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
T18 or Mixer**	6,500	Out of Service	01/93	8.5' x 16' V	3/8"	#1
T7	10,000	Used Oil/Oily Water	02/92	8' x 26' H	3/8"	#2
T20	1,000	Truck Diesel	01/89	5.33' x 6' H	3/8"	#5
T21	100,000	Used Oil	06/96	20' x 31' V	3/8"	#4
Drums	55-550	Haz and non-haz waste, oil filters or other petroleum, and cooking oil	NA	NA	NA	#3 and #6
T11R***	20,000	Used Oil/Oily Water	Prop: 01/14	10.5' x 31' V	3/8"	#1
T22****	20,000	Process Tank	Prop: 01/14	10' x 34.5' H	3/8"	#4

* The permit lists 358,000 gallons as the total facility capacity; individual tank fill volume calculated at 95% of used oil/oily water tank size

** T18 or Mixer AST has been out of service since 1989, therefore should not be included in the facility volume calculations

*** T11R is a replacement of T11 with the same volume so there is no net add or loss to the permit volume or secondary containment

**** T22 is a process tank that takes product from tank farm and no net add or loss to the permit volume or secondary containment

GENERAL CLOSURE ACTIVITIES FOR 20,000 GALLON VERTICAL ABOVEGROUND STORAGE TANK (AST) (T-11)

1. TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC (TEIFL) IS THE OWNER/OPERATOR OF A USED OIL AND MATERIAL PROCESSING (USED OIL PROCESSOR, TRANSPORETER, OIL FILTER RECYCLER) FACILITY LOCATED AT 3670 SW 47TH AVENUE, DAVIE, FL. 33314. BASED ON THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) PERMITS # 77390-HO-008 & 7739-SO-009, DATED MAY 7, 2013, THE FACILITY IS AUTHORIZED TO PROCESS USED OIL, OILY WASTEWATER, OILY SOLID WASTE, USED OIL FILTERS, AND COLLECT PETROLEUM CONTACT WATER. NON-HAZARDOUS WASTE WATER IS COLLECTED FROM VENDORS, FILTERED, HEATED FOR OIL/WATER SEPARATION (WATER FRACTION ONLY), AND THEN TRANSFERRED TO AN OFFSITE INDUSTRIAL WASTE WATER PRE-TREATMENT FACILITY FOR TREATMENT AND DISPOSAL.

   THE FACILITY CURRENTLY CONSISTS OF SEVENTEEN (17) ASTS RANGING FROM 1,000 GALLONS TO 20,000 GALLONS AND ONE (1) 100,000 GALLON TANK. THE FACILITY IS AUTHORIZED TO STORE AND USE A TOTAL OF 358,000 GALLONS OF USED OIL IN THE ASTS AND RELATED APPURTENANCES CURRENTLY IN USE AT THE FACILITY. THE STORAGE TANK FARMS ARE LOCATED OUTDOORS, FENCED, AND/OR WALLED ON ALL SIDES WITH SEPARATE CONCRETE FLOOR SECONDARY CONTAINMENT STRUCTURES (SEE **FIGURE 6**).

2. THE SCOPE OF WORK INVOLVES CLOSURE VIA REMOVAL OF ONE (1) 20,000 GALLON SINGLE WALLED ABOVEGROUND USED OIL-MATERIAL STORAGE TANK (AST) (T11). T 11 (10.5' DIAMETER X 31' HIGH) IS LOCATED IN A SECONDARY CONTAINMENT #1 AS SHOWN IN **FIGURE 6 AND 7**, RESPECTIVELY. IT WAS INSTALLED IN JUNE 1987 AND HAS BEEN OUT OF SERVICE SINCE NOVEMBER 6, 2003.

3. A CLOSURE PLAN IS REQUIRED FOR USED OIL PROCESSING FACILITIES WHEN CLOSING THE ENTIRE FACILITY AND IN ACCORDANCE WITH 40 CFR 279.54(H), AND SUBSECTION 62-710.800(3)(5), FLORIDA ADMINISTRATIVE CODE (F.A.C). IN ADDITION WITH THE APPROVED PERMIT, A CLOSURE PLAN DATED MARCH 18, 2003 WAS APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) ON MARCH 31, 2003. THE CLOSURE PLAN DESCRIBES THE MANNER IN THE USED OIL TREATMENT AND STORAGE TANK AREAS OF THE FACILITY WILL BE CLOSED IN ORDER TO SATISFY THE REQUIREMENTS OF THE CLOSURE PERFORMANCE PURSUANT TO RULE 62 710.800(3)(A), F.A.C. PURSUANT TO PARAGRAPH RULE 62-4.050(4)(S), F.A.C., GEOTECH CONSIDERS REPLACEMENT OF EXISTING TANK WITH NEW TANK OF SAME SIZE AS A MINOR MODIFICATION THAT WILL NOT REQUIRE SUBSTANTIAL TECHNICAL EVALUATION BY THE DIVISION AND FDEP, NOR WILL IT REQUIRE A NEW SITE INSPECTION, AND WILL NOT LEAD TO SUBSTANTIALLY DIFFERENT ENVIRONMENTAL IMPACTS AND WILL LESSEN THE IMPACTS OF THE ORIGINAL PERMIT. FURTHER, TEIFL IS REQUIRED TO CLOSE T11 IN COMPLIANCE WITH AND THE CLOSURE PLAN OF THE PERMIT APPLICATION DATED SEPTEMBER 18, 2012, AND REVISED, SUPPLEMENTED MODIFICATIONS OR SUBMISSIONS.

4. THE CLOSURE PLAN AT A MINIMUM WILL INCLUDE THE FOLLOWING:

   A. TEIFL WILL CONDUCT TESTING OF THE RESIDUE IN TANK T-11. IF THE RESIDUE IS HAZARDOUS, TEIFI WILL FOLLOW THE CLOSURE PLAN IN THE PERMIT APPLICATION AND REVISED OR SUPPLEMENTED SUBMISSIONS.
   B. TEIFL AS A LICENSED LIQUID WASTE CONTRACTOR, WILL TRIPLE RINSE THE TANK, PIPING, AND ANCILLARY EQUIPMENT, AND PROPERLY DISPOSE ANY NON-HAZARDOUS RESIDUE AND DOCUMENT THE FINDINGS FOR SUBMITTAL TO FDEP AND THE DIVISION IN THE CLOSURE REPORT. TEIFL WILL EXERCISE CAUTION TO AVOID ANY SPILLAGE TO THE CONTAINMENT AREA AND THE GROUND.
   C. GEOTECH WILL INSPECT THE TANK AND VERIFY THAT IT IS CLEAN AND READY FOR REMOVAL. GEOTECH WILL REMOVE T 11 AND PIPING AND PLACE IT ON LEVEL GROUND FOR GEOTECH ENGINEER AND PSSSC INSPECTION.
   D. TEIFL WILL LOAD AND DISPOSE THE TANK AND PIPING TO A SCRAP STEEL DEALER AND PROVIDE DISPOSAL DOCUMENTATION TO GEOTECH, DIVISION, AND FDEP. THE DOCUMENTATION WILL INCLUDE (1). THE WEIGHT OF #1 HEAVY METAL SCRAP SOLD. (2). THE WEIGHT OF SCRAP DISPOSED AND HOW DISPOSED. (3). AN INVENTORY OF THE VALVES AND FITTINGS THAT WERE RETAINED FOR FUTURE APPLICATION. (4). A STATEMENT THAT THE TANKS AND PIPING HAVE BEEN COMPLETELY REMOVED AND THAT EVERYTHING REMOVED IS INCLUDED IN THE ABOVE LISTING.
   E. GEOTECH ENGINEER WILL INSPECT THE EXISTING CONCRETE SLAB TO VERIFY USED OIL HAS NOT CONTAMINATED THE SOIL, SURFACE WATER OR GROUNDWATER.

ON BEHALF OF TEIFL, GEOTECH WILL SUBMIT A CERTIFICATION OF CLOSURE COMPLETION THAT DEMONSTRATES THAT THE AST WAS CLOSED IN SUBSTANTIAL COMPLIANCE WITH THE CLOSURE PLAN. PURSUANT TO SECTION 376.30701, F.S., THE CERTIFICATION WILL BE SIGNED BY THE OWNER OR OPERATOR OF THE FACILITY.

04042014

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Revisions:
3-12-14-'AS BUILTS'

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DAVIE, FL 33314

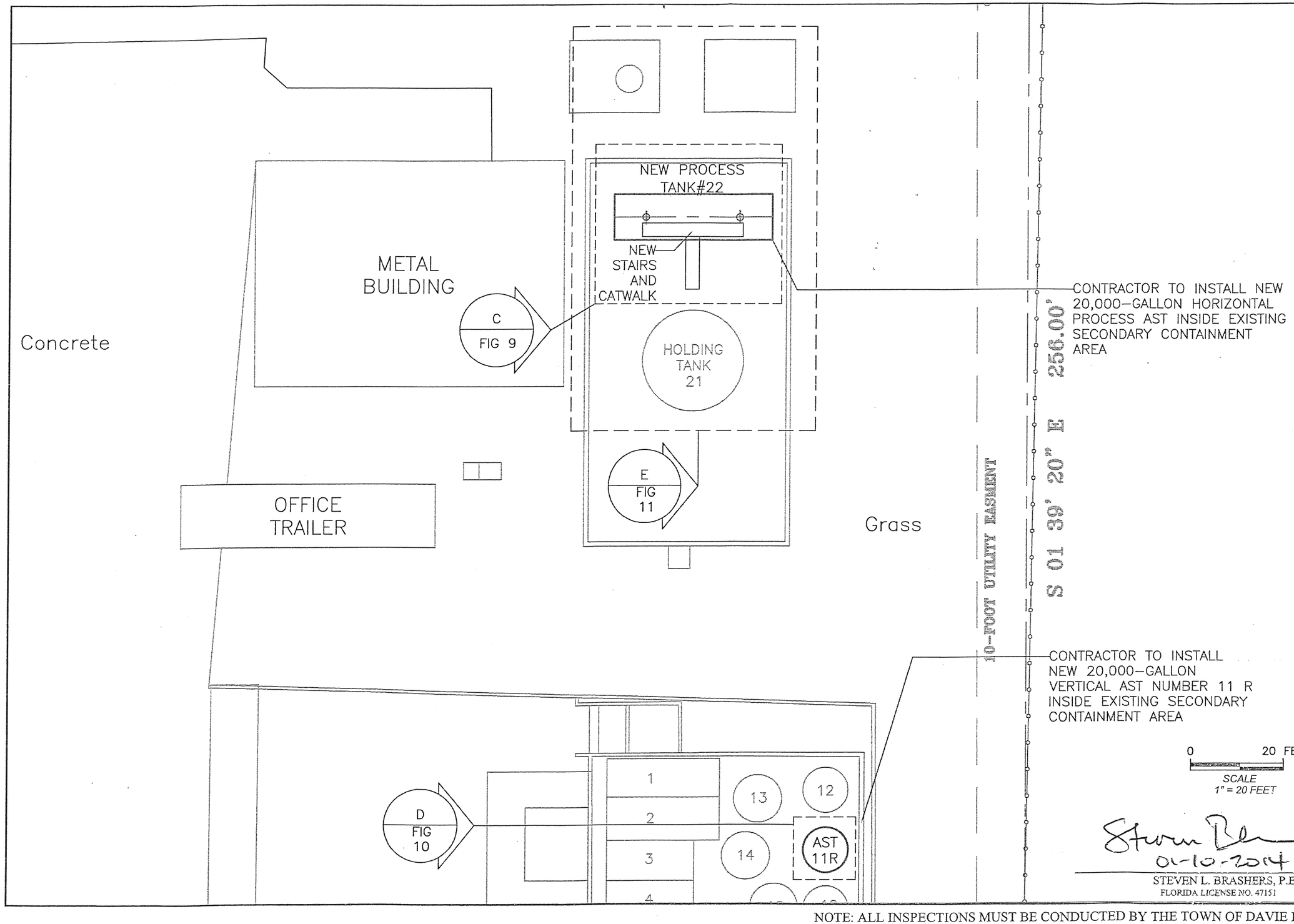
Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch =20 feet on 11x17
Date:	01-03-2014

Project Number: 021322

Title: CLOSURE PLAN

Sheet Number: FIGURE 7

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



Steven Brashers
01-10-2014

STEVEN L. BRASHERS, P.E.
FLORIDA LICENSE NO. 47151

Revisions:

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Engineer: SLB	Drawn By: SLB	Checked By: N.L.	Scale: 1 inch =20 feet on 11x17

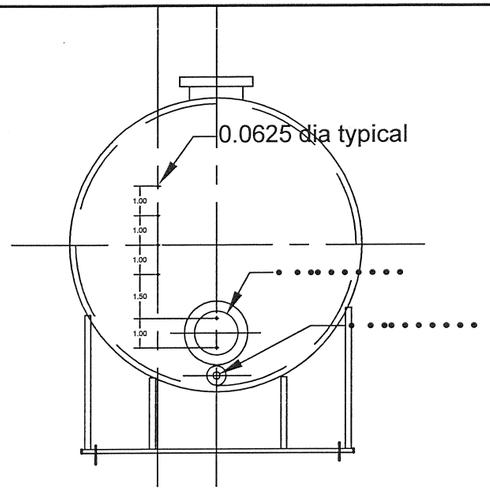
Date: 01-08-2014

Project Number: 021322

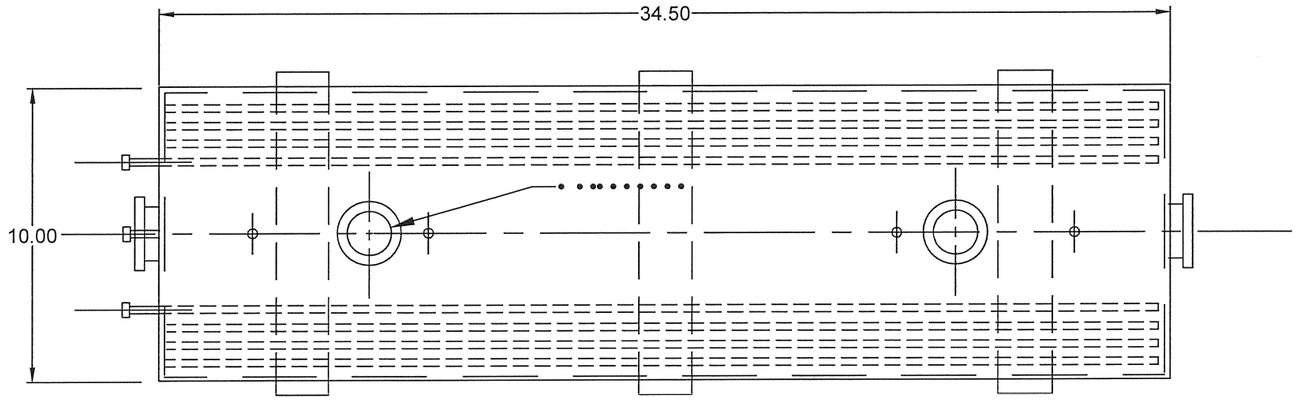
Title: INSTALL PLAN

Sheet Number: FIGURE 8

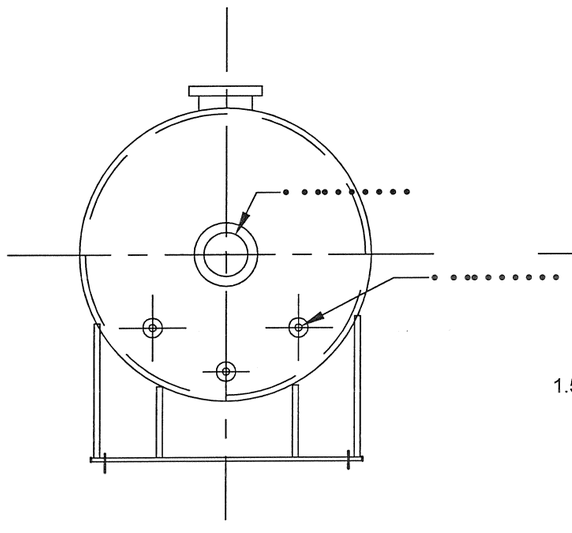
NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



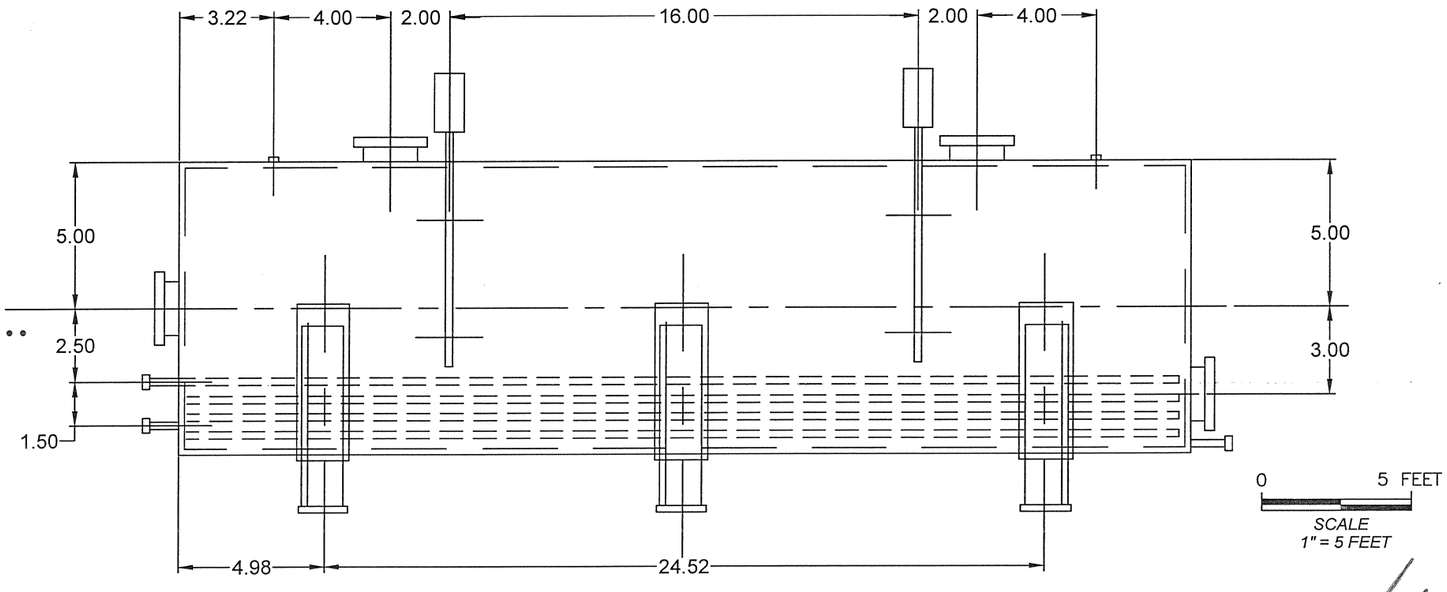
EAST
ELEVATION



PLAN
VIEW



WEST
ELEVATION



SOUTH
ELEVATION

0 5 FEET

SCALE
1" = 5 FEET

C
FIG 10 20,000-GALLON PROCESS AST DETAIL
SCALE: 1" = 5'

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

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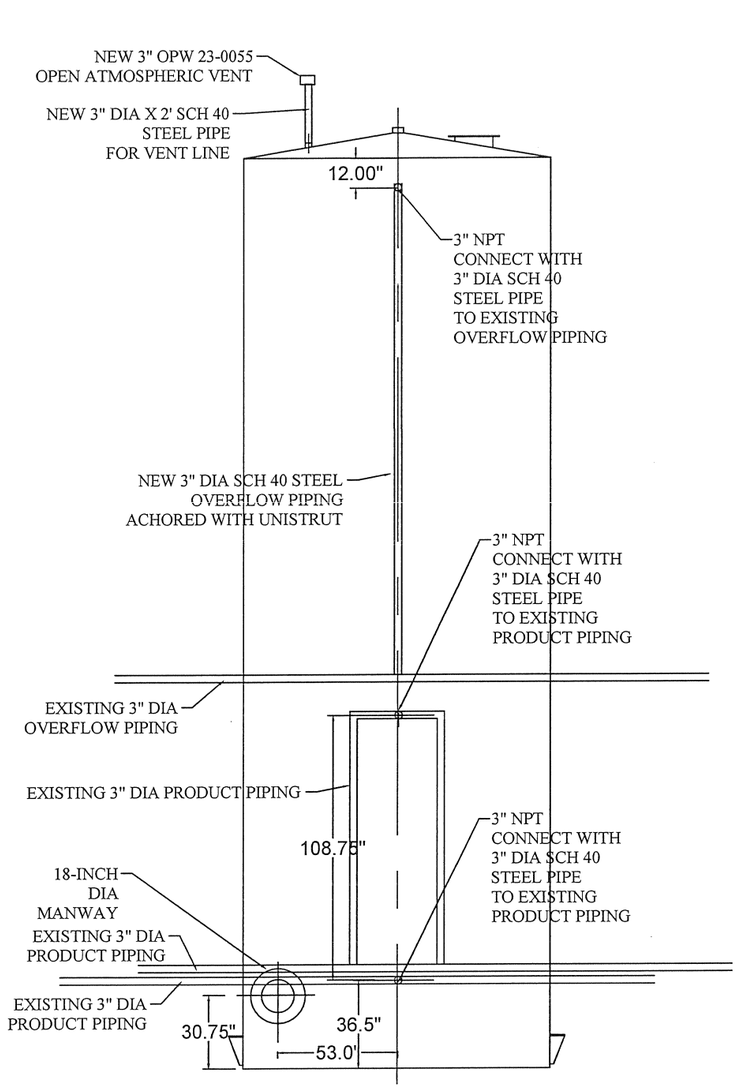
Engineer:	SLB	Checked By:	N.L.	Scale: 1 inch = 5 feet on 11x17
Drawn By:	SLB			Date: 01-03-2014

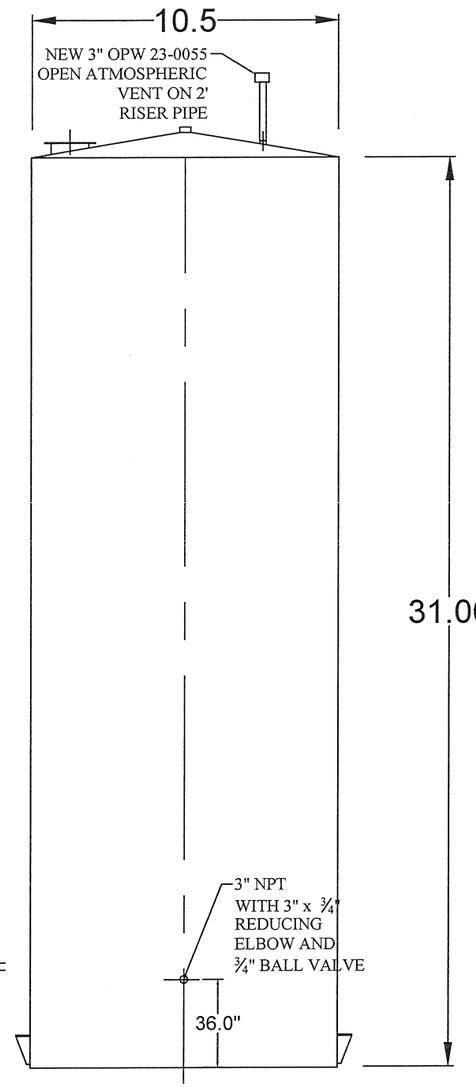
Project Number:
021322

Title:
20,000–GALLON PROCESS AST

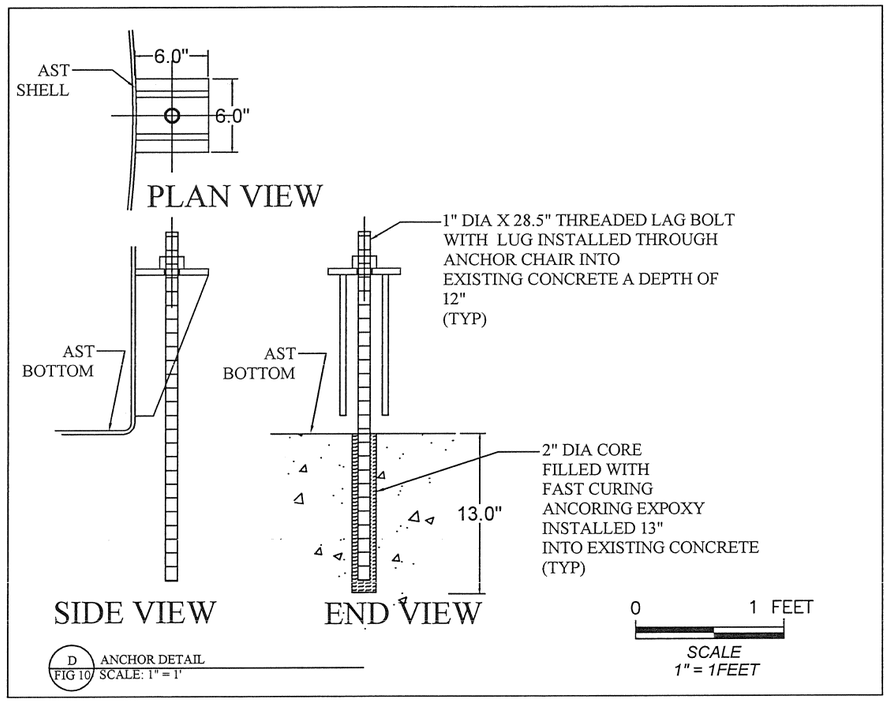
Sheet Number:
FIGURE 9

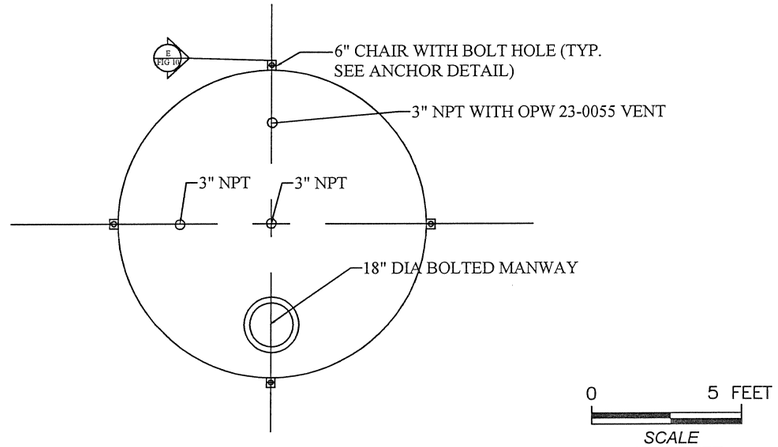


WEST SIDE



EAST SIDE





PLAN VIEW

20,000 GALLON CAPACITY

D
FIG 11
20,000-GALLON VERTICAL HOLDING AST
DETAIL(T-11R)
SCALE: 1" = 5'

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT

Revisions:
3-12-14-'AS BUILTS'

GEOTECH ENVIRONMENTAL
BOARD OF PROFESSIONAL ENGINEERS CA No 7396
7737 North University Drive, suite 206
Tamarac, Florida 33321
Tel. 954-597-9100
www.GeoTech-usa.com

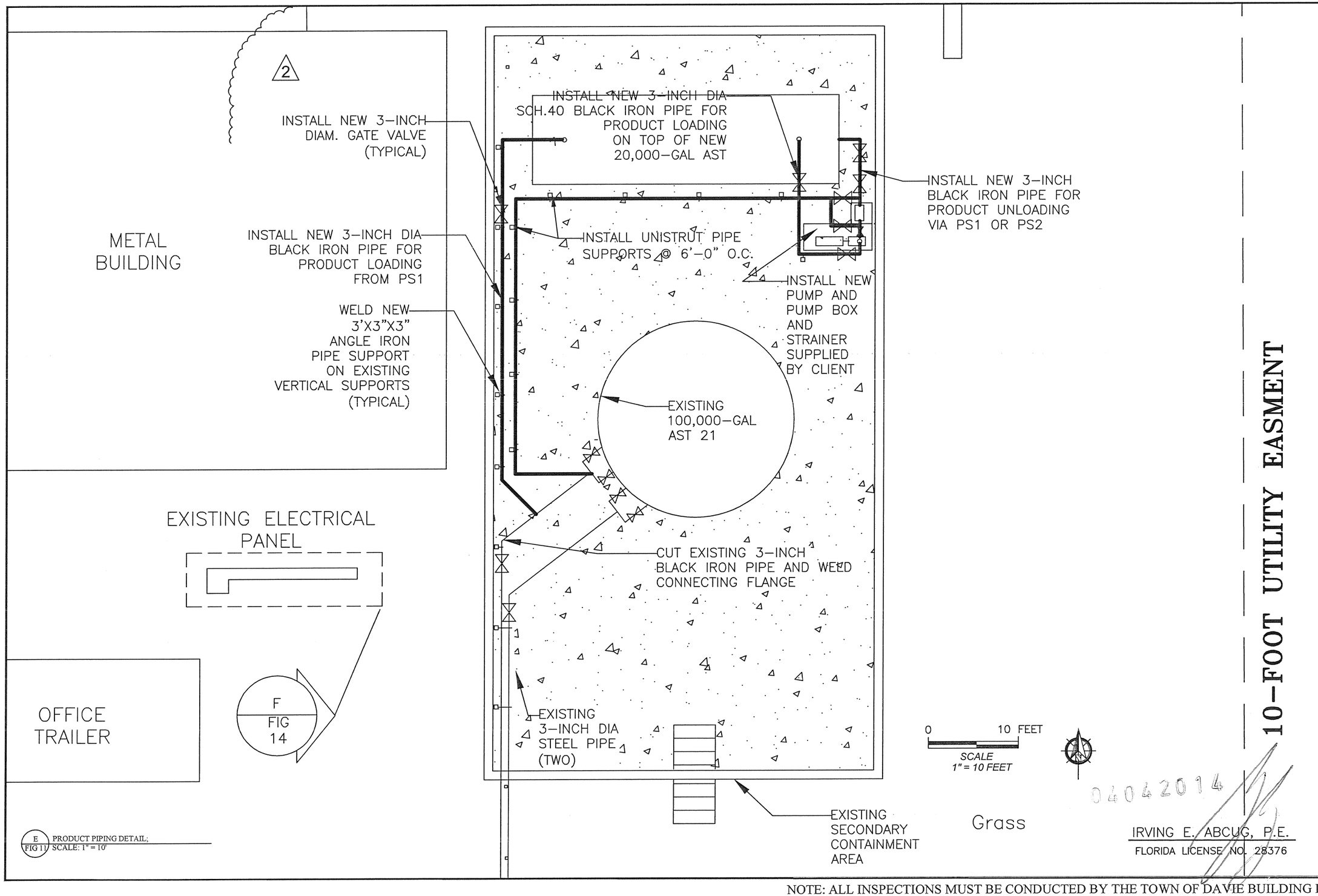
Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch = 5 feet on 11x17
Date:	01-03-2014

Project Number:
021322

Title:
20,000–GALLON VERTICAL AST

Sheet Number:
FIGURE 10



04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT

Revisions:
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BOARD OF PROFESSIONAL ENGINEERS CA No 7396
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Tamarac, Florida 33321
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www.GeoTech-usa.com

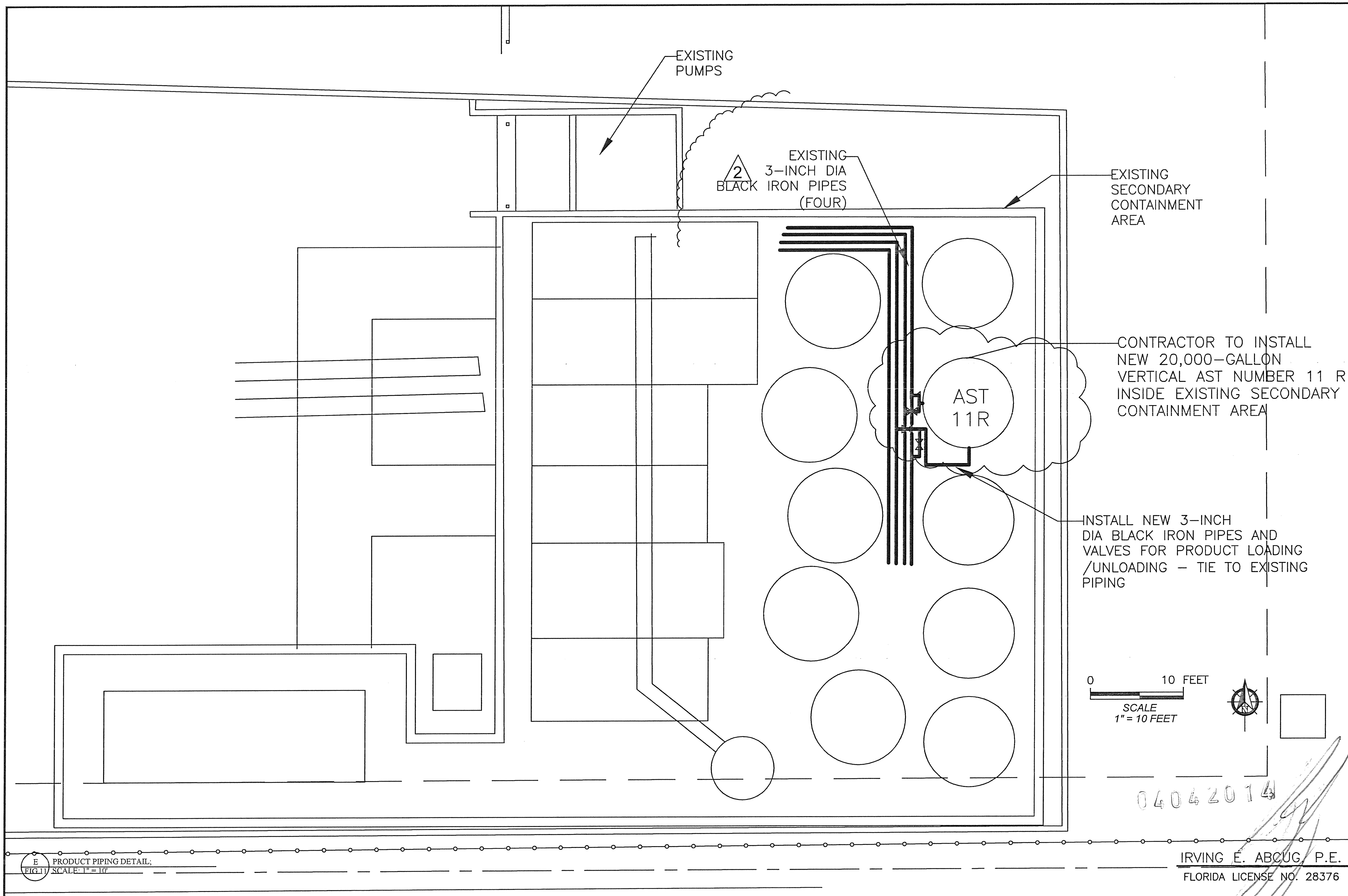
Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch =10 ft on 11x17
Date:	01-03-2014

Project Number:
021322

Title:
PRODUCT PIPING

Sheet Number:
FIGURE 11



Revisions:
2 3-12-14-'AS BUILTS'

GEOTECH ENVIRONMENTAL
BOARD OF PROFESSIONAL ENGINEERS CA No 7396
7737 North University Drive, suite 206
Tamarac, Florida 33321
Tel. 954-597-9100
www.GeoTech-usa.com

Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch =10 ft on 11x17
Date:	01-03-2014

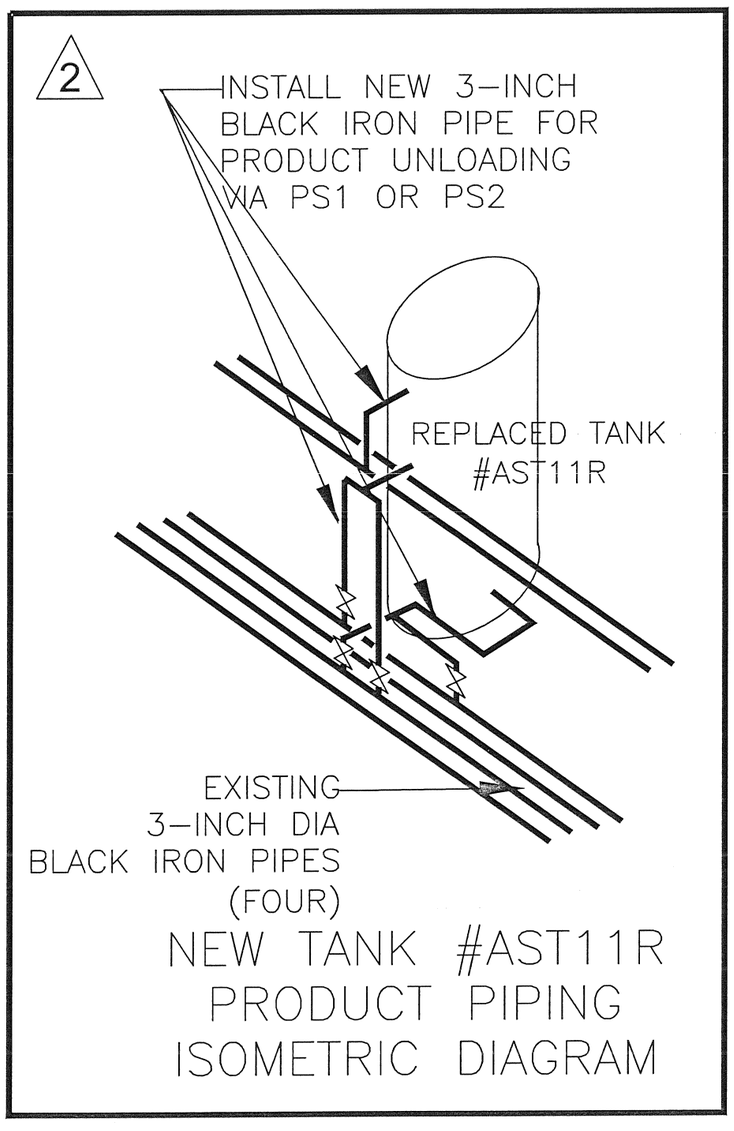
Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Project Number:
021322

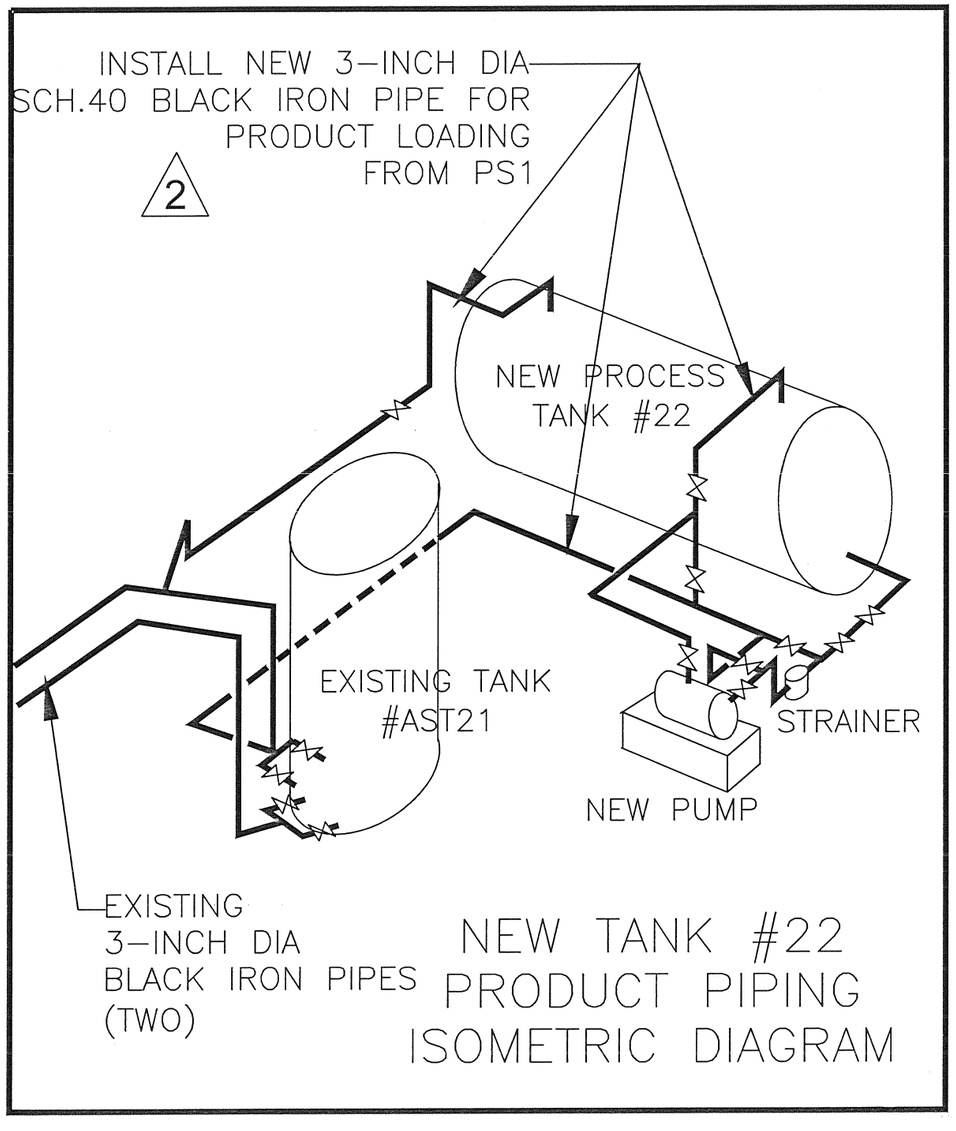
Title:
PRODUCT PIPING

Sheet Number:
FIGURE 11A

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



NEW TANK #AST11R
PRODUCT PIPING
ISOMETRIC DIAGRAM



NEW TANK #22
PRODUCT PIPING
ISOMETRIC DIAGRAM

E / FIG 11 PRODUCT PIPING DETAIL;
SCALE: 1" = 10'

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

Revisions:
2 3-12-14-'AS BUILTS'

GEOTECH ENVIRONMENTAL
BOARD OF PROFESSIONAL ENGINEERS CA No 7396
7737 North University Drive, suite 206
Tamarac, Florida 33321
Tel. 954-597-9100
www.GeoTech-Us.com

Client: TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

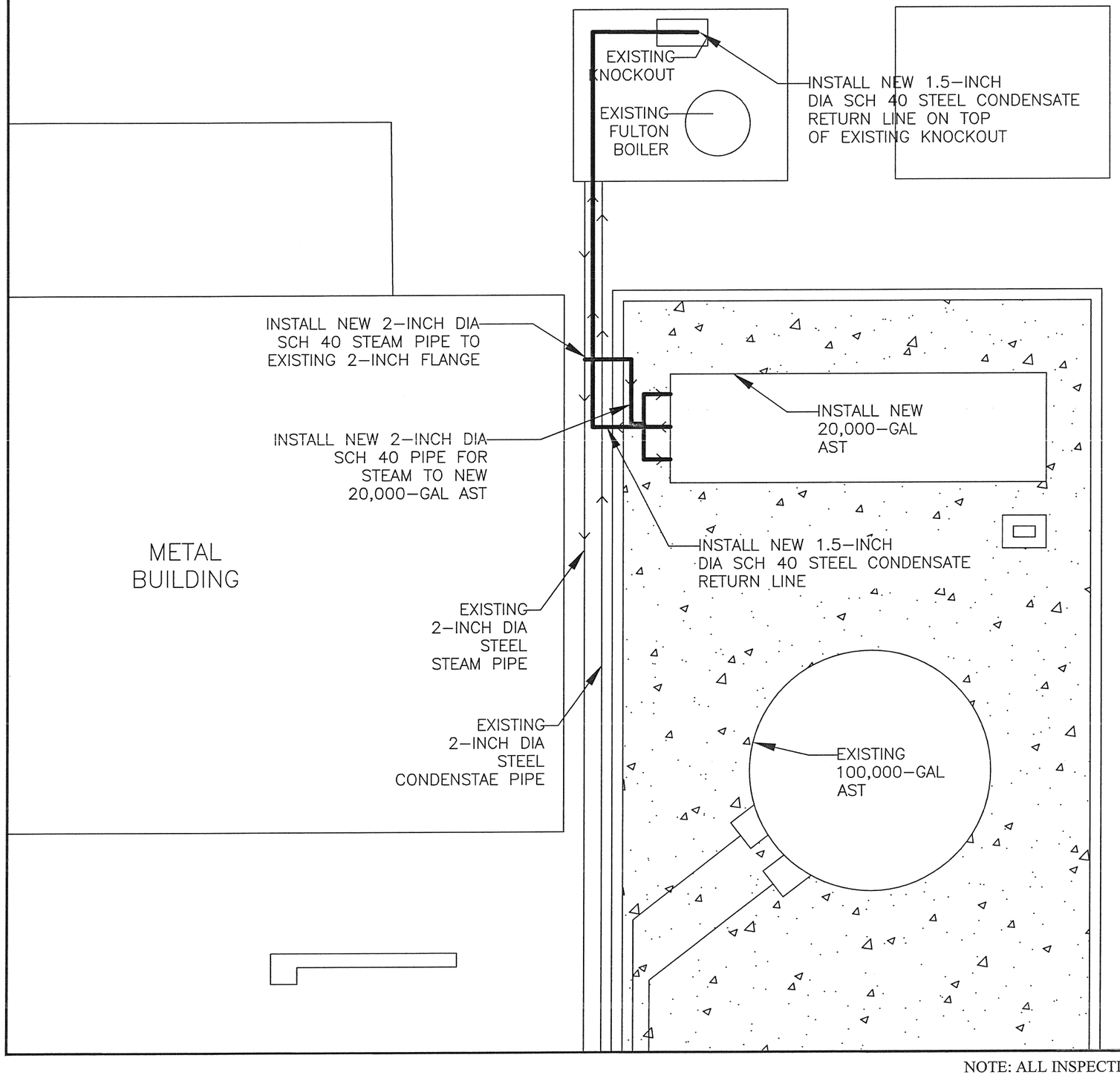
Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch =10 ft on 11x17
Date:	01-03-2014

Project Number: 021322

Title: PRODUCT PIPING

Sheet Number: FIGURE 11B

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

NOT UTILITY EASEMENT

Revisions:
3-12-14-'AS BUILTS'

GEOTECH ENVIRONMENTAL
BOARD OF PROFESSIONAL ENGINEERS CA No 7396
7737 North University Drive, suite 206
Tamarac, Florida 33321
Tel. 954-597-9100
www.Geotech-usa.com

Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

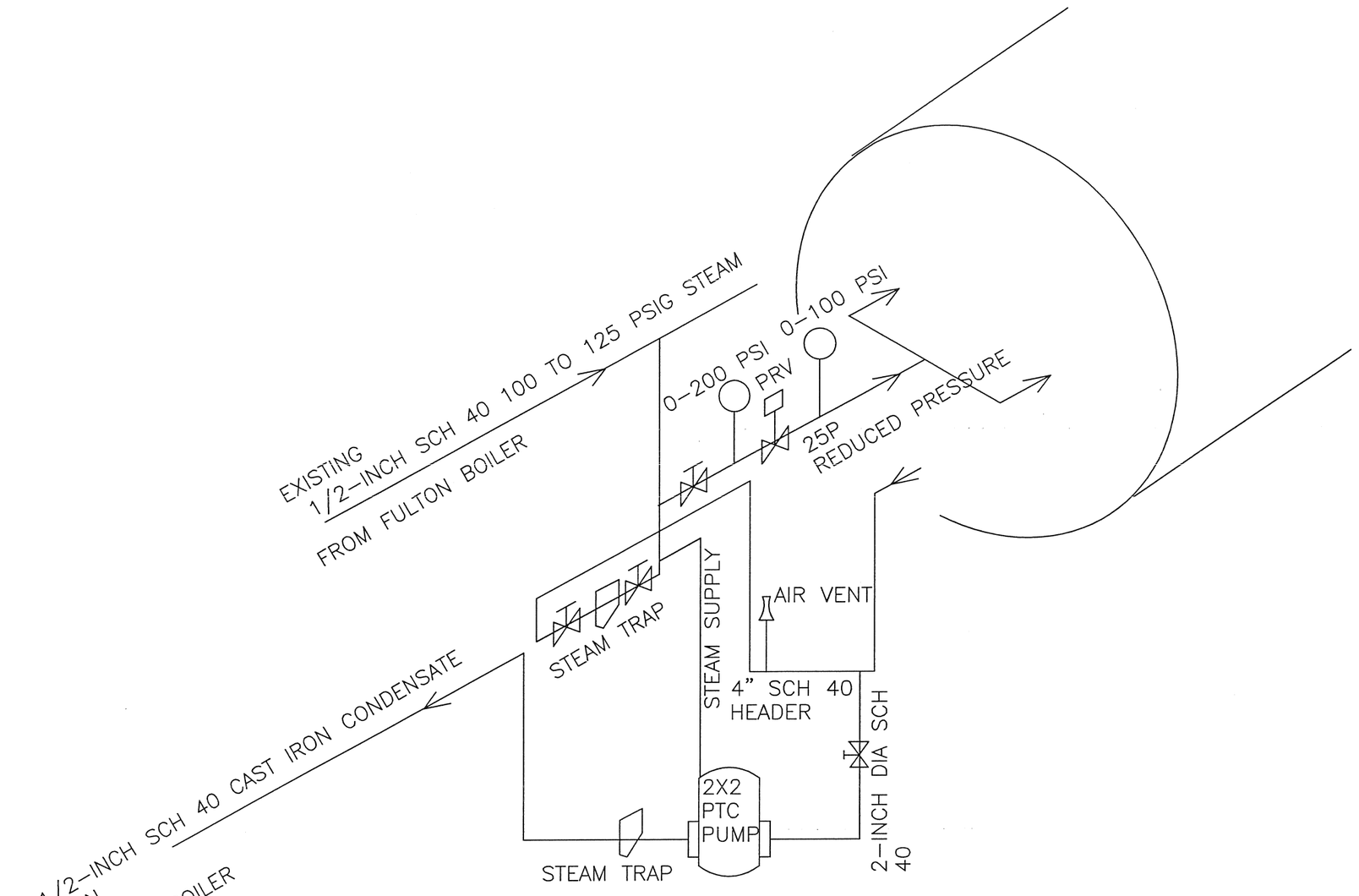
Engineer:	SLB	Scale: 1 inch =10 feet on 11x17	
Drawn By:	SLB	Date:	01-03-2014
Checked By:	N.L.		

Project Number:
021322

Title:
STEAM PIPING INSTALL PLAN

Sheet Number:
FIGURE 12

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



NOTE: ALL PIPING THREADED SCH 40 CAST IRON UNLESS OTHERWISE NOTED

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

Revisions:
3-12-14-'AS BUILTS'

GEOTECH ENVIRONMENTAL
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7737 North University Drive, suite 206
Tamarac, Florida 33321
Tel: 954-597-3100
Fax: 954-597-3104
www.GeoTech-Usa.com

Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

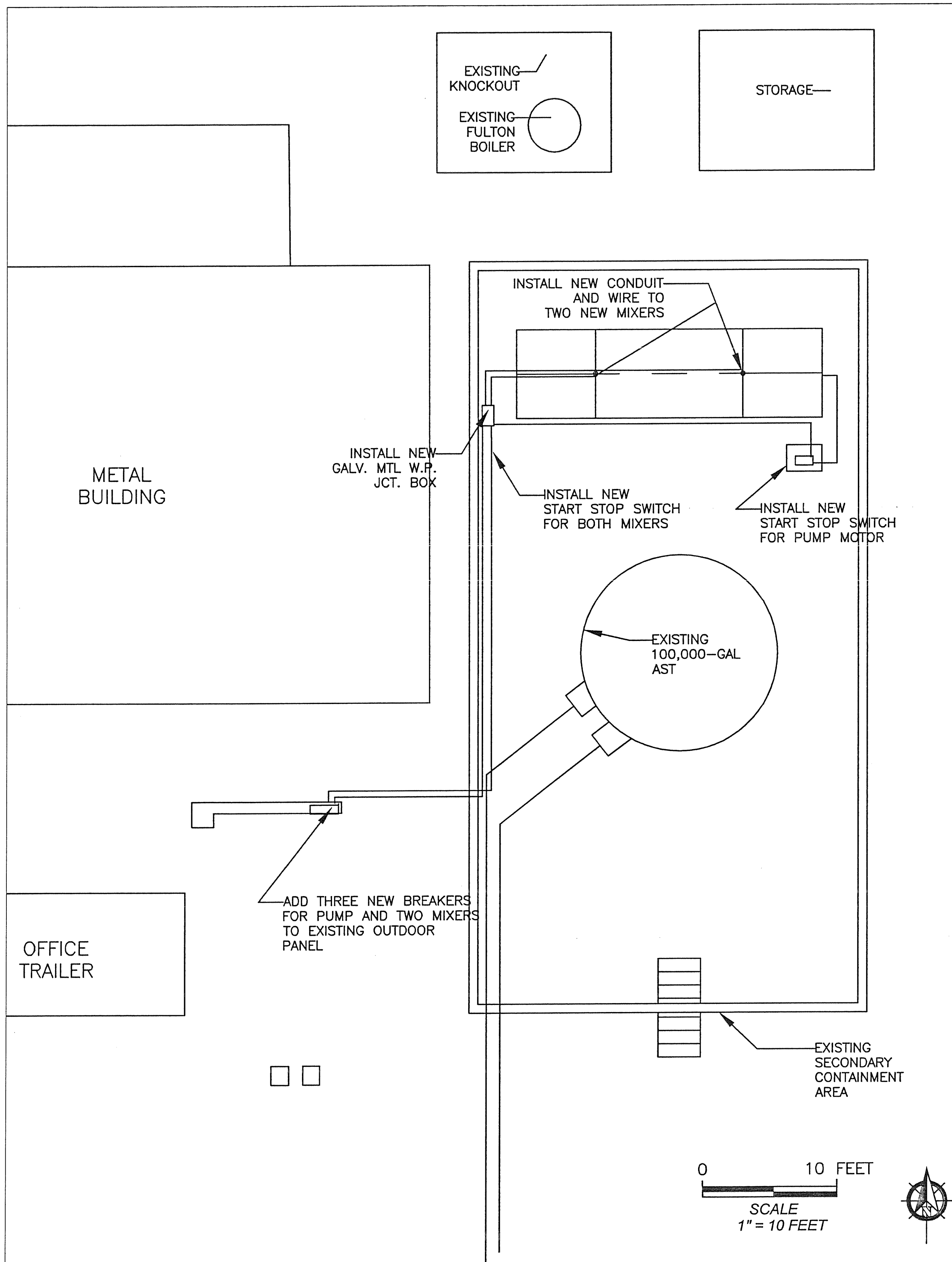
Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	NTS
Date:	01-03-2014

Project Number:
021322

Title:
STEAM PIPING SCHEMATIC

Sheet Number:
FIGURE 13

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



PROPOSED SCOPE OF WORK (ELECTRICAL)

1. INSTALL NEW BREAKERS IN EXISITNG PANEL
2. RUN ONE ¾" CONDUIT TO NEW STOP SWITCH FOR PUMP MOTOR
3. RUN ONE ¾" CONDUIT TO NEW STOP SWITCH FOR MIXERS

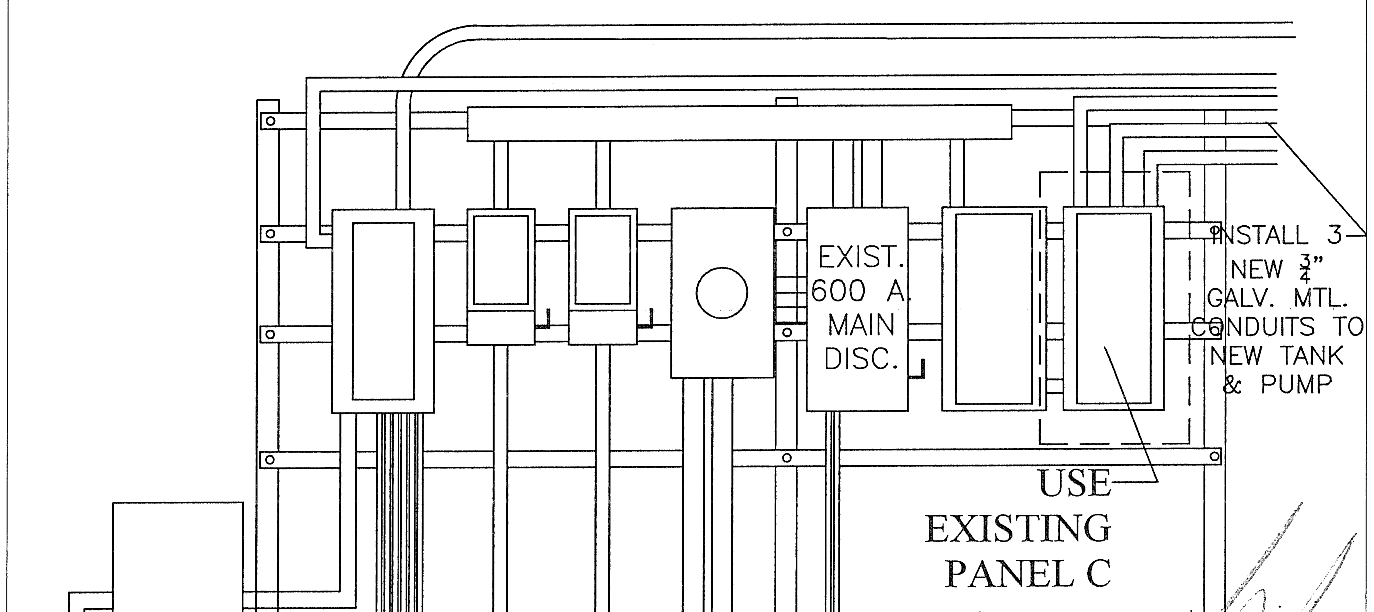
NOTE: ALL ELECTRICAL EQUIPMENT INSTALLED SHALL BE LISTED AND LABELLED BY APPROVED TESTING LABORATORY AND INSTALLED SUBJECT TO F.B.C. AND N.E.C.

EXISTING PANEL C DETAIL:
MAX. CAPACITY: 225 AMPS
208Y/ 120 V 3 PHASE/ 4 WIRE

NOTE: CURRENTLY, PANEL 'C' IS NOT IN USE (NO LOADS)

	WIRE	BREAKER
ONE 10 HP PUMP FLA 30.8	8	40
ONE 2 HP MIXER FLA 7.5	10	20
ONE 2 HP MIXER FLA 7.5	10	20

TOTAL CALCULATED LOAD = 45.8 AMPS



EXISTING RISER DIAGRAM

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

Revisions: 3-12-14-'AS BUILTS'

GEOTECH ENVIRONMENTAL
BOARD OF PROFESSIONAL ENGINEERS CA No 7396
7737 North University Drive, suite 206
Tamarac, Florida 33321
Tel. 954-597-9100
www.GeoTech-usa.com

Client: TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer: SLB
Drawn By: SLB
Checked By: N.L.
Scale: 1 inch=10 feet on 11x17
Date: 01-03-2014

Project Number: 021322

Title: ELECTRICAL DETAIL

Sheet Number: FIGURE 14

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT

From: Neil [mailto:neil@geotech-usa.com]
Sent: Tuesday, April 08, 2014 10:22 AM
To: Kothur, Bheem
Cc: Shawn Lennon; James F. Green
Subject: Final As-Built Drawings - Triumvirate Environmental, (Florida), Inc., - 3670 Southwest 47 Ave, Davie, Florida (Operating Permit #s 77390-HO-008, 77390-SO-009)

Good Morning Mr. Kothur,

On behalf of Triumvirate Environmental (Florida), Inc,. GeoTech wishes to thank you for all your assistance in reviewing and approving the permit modification for the above-mentioned facility. Your efforts is appreciated in making this process a seamless one. GeoTech is also attaching the final "As-Built" drawings in this email. GeoTech will also be mailing you one original signed and sealed copy by our Professional Engineer via US Ground Mail today.

Should you require any additional information, please do not hesitate to call me.

May All Beings Be Happy.

Nilesh "Neil" Lakhlani
Project Manager
GeoTech Environmental, Inc
WoodMont Professional Building
7737 N. University Drive, Ste 206
Tamarac, Florida 33321
Tel: (954) 597 9100
Fax: (954) 597 9191
Cell: (954) 347 8684

Email: **neil@geotech-usa.com**

www.geotech-usa.com

Used Oil and Material Processing Facility
Permit Renewal Application

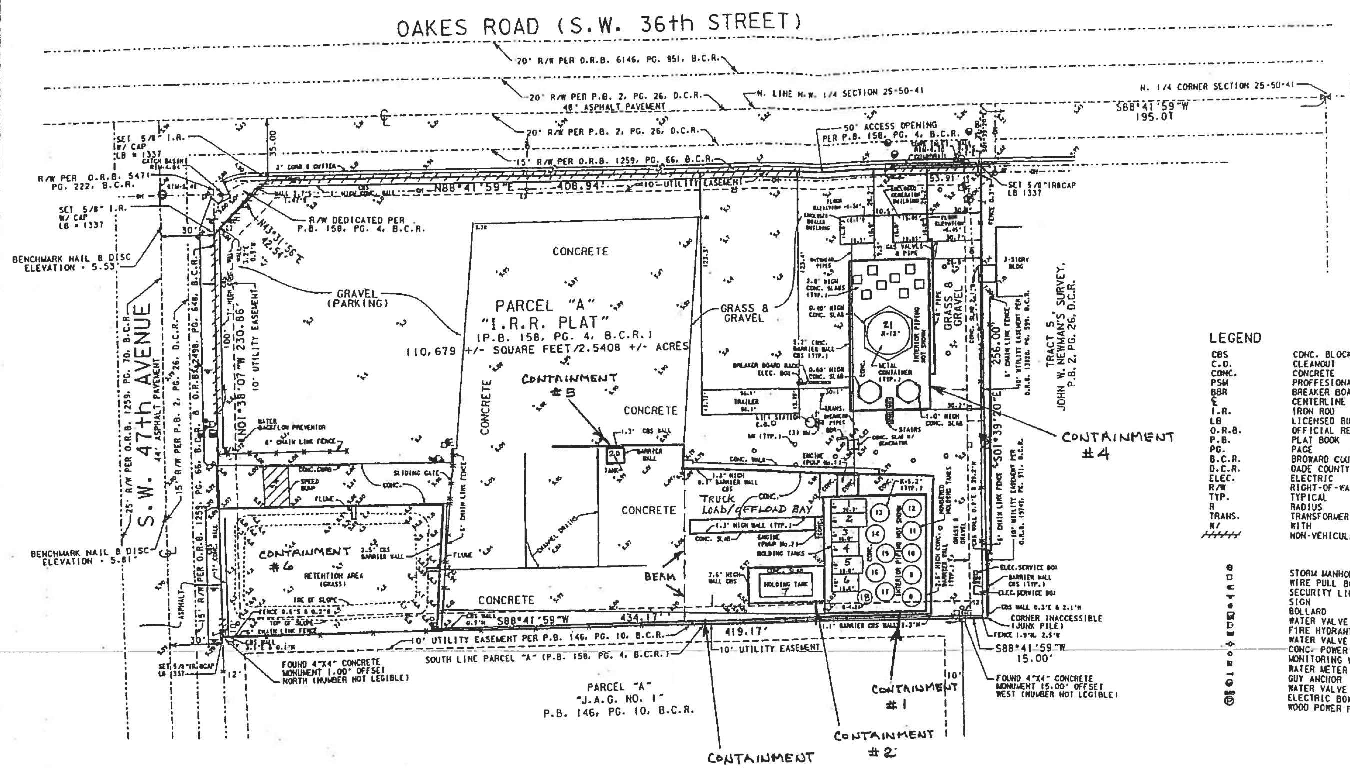
Attachment O: Boundary and Topographic Map

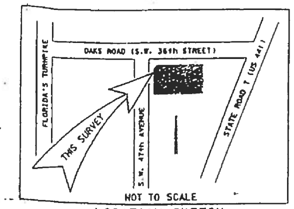
FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022





LOCATION SKETCH

GRAPHIC SCALE 30 0 30 60 90

N

LEGEND

CBS	CONC. BLOCK STRUCTURE
C.O.	CLEANOUT
CONC.	CONCRETE
PSM	PROFFESSIONAL SURVEYOR AND MAPPER
BBR	BREAKER BOARD RACK
℄	CENTERLINE
I.R.	IRON ROD
LB	LICENSED BUSINESS
O.R.B.	OFFICIAL RECORD BOOK
P.B.	PLAT BOOK
PG.	PAGE
B.C.R.	BROWARD COUNTY RECORDS
D.C.R.	DADE COUNTY RECORDS
ELEC.	ELECTRIC
R/W	RIGHT-OF-WAY
TYP.	TYPICAL
R	RADIUS
TRANS.	TRANSFORMER
W/	WITH
/////	NON-VEHICULAR ACCESS LINE

STORM MANHOLE (MH)
WIRE PULL BOX (WPB)
SECURITY LIGHT
SIGN
BOLLARD
WATER VALVE BOX (WVB)
FIRE HYDRANT (FH)
WATER VALVE (WV)
CONC. POWER POLE W/LIGHT (PP)
MONITORING WELL (MW)
WATER METER (WM)
GUY ANCHOR
WATER VALVE COVER (WVC)
ELECTRIC BOX
WOOD POWER POLE

SURVEY NOTES:

1. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
2. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS-OF-WAY, EASEMENTS, OWNERSHIPS, OR OTHER INSTRUMENTS OF RECORD.
3. ELEVATION SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, AND WERE ESTABLISHED FROM THE BROWARD COUNTY ENGINEERING DIVISION, BENCHMARK NO. 3089, BRASS DISK SET IN CONC HEADWALL ON THE SOUTH SIDE OF A TWO STORY PUMP HOUSE, 145' SOUTH OF ORANGE DRIVE, 300' WEST OF STATE ROAD 7. ELEV.-8.035 FEET.
4. BEARINGS SHOWN HEREON ARE BASED ON THE "I.R.R. PLAT" (P.B. 158, PG. 4, B.C.R.) REFERENCE BEARING OF SOUTH 88°41'59" WEST ALONG THE SOUTH LINE OF SAID PLAT.
5. THE LAND DESCRIPTION HEREON WAS FURNISHED BY THE CLIENT
6. UNDERGROUND FOUNDATIONS AND ENCROACHMENTS NOT LOCATED OR SHOWN.
7. ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) NO. 12011C0302 F, COMMUNITY PANEL NO. 120035 0302 F, EFFECTIVE DATE OCTOBER 2, 1997, THIS PROPERTY LIES IN ZONE AE, BASE FLOOD ELEVATION 8 FEET.
8. THE SIZE OF SOME FEATURES HAS BEEN EXAGGERATED FOR CLARITY.
9. THE EASEMENTS SHOWN HEREON ARE PER THE I.R.R. PLAT RECORDED IN PLAT BOOK 158, PAGE 4, BROWARD COUNTY RECORDS UNLESS OTHERWISE NOTED.

LAND DESCRIPTION:

PARCEL "A", "I.R.R. PLAT", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 158, PAGE 4 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

CERTIFICATE: FIGURE 1C

I HEREBY CERTIFY THAT THE ATTACHED BOUNDARY AND TOPOGRAPHIC SURVEY OF THE HEREON DESCRIBED PROPERTY IS DEPICTED TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION AS SURVEYED UNDER MY DIRECTION ON JANUARY 27, 2000. I FURTHER CERTIFY THAT THIS BOUNDARY AND TOPOGRAPHIC SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, SUBJECT TO THE QUALIFICATIONS NOTED HEREON.

KEITH AND SCHNARS, P.A.
ENGINEERS-PLANNERS-SURVEYORS

BY: MICHAEL M. SOSSEY, P.S.M.
FLORIDA REGISTRATION NO. 5660

FIGURE 2 Triumvirate Environmental (Florida) LLC. SITE LAYOUT DAVIE, FLORIDA

KEITH and SCHNARS, P.A.
LB 1337
ENGINEERS - PLANNERS - SURVEYORS
6500 N. ANDREWS AVE., FT. LAUDERDALE, FL 33309-2132 (954) 776-1616

DATE	REVISIONS

DATE JANUARY 27, 2000
SCALE 1" = 30'
FIELD BK. 990 B1020
DWNG. BY SY
CHECKED BY MMS

BOUNDARY AND TOPOGRAPHIC SURVEY

PERMA-FIX
PARCEL "A", "I.R.R. PLAT" P.B. 158, PG. 4, B.C.R.
TOWN OF DAVIE, BROWARD COUNTY, FLORIDA

SHEET NO. 1 OF 1 SHEETS
PROJECT NO. 16339C-

Used Oil and Material Processing Facility Permit Renewal Application

Attachment P: Cylinder Devalve SOP

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

Compressed Gas Cylinder Devalving

Standard Operating Procedure

Document Number:	SOP-107
Revision Number:	0 (Original)
Last Revised On:	August 12, 2022

Triumvirate Environmental Inc.
200 Inner Belt Rd. Somerville, MA 02143
1-888-TEI-WOWS
www.triumvirate.com

1 General

1.1 Purpose

This Standard Operating Procedure (SOP) establishes requirements that need to be met by all facility staff when emptying and removing valves (devalving) from any compressed gas cylinders at the property located at 3670 SW 47th Avenue, Davie, FL 33314 ("the site").

1.2 Scope and Application

This procedure applies to facility staff members and management personnel who are involved with or perform emptying and devalving of cylinders received at the site. Facility staff members may only apply these procedures to gas cylinders used to hold mixtures of the following gases:

- Mixtures of Breathable Air
- Helium
- Argon
- Nitrogen
- Xenon
- Krypton
- Neon
- Carbon Dioxide
- Oxygen mixtures containing: 22% oxygen and one or more gases listed in this section
- Carbon Monoxide mixtures containing: >50 ppm and one or more of the gases listed in this section

The procedure may only be performed under the supervision of the Facility Manager. When emptying and devalving compressed gas cylinders, personnel shall perform the operation safely and consistent with all federal, state, and local laws and regulations.

2 Responsibilities

Party	Task
Facility Staff	Facility staff members must receive 12 hours of hands-on training prior to conducting this procedure. Facility staff members who perform cylinder devalving activities must review and adhere to the requirements in this procedure. Any activities that are different in the scope of the task described in this SOP (example: different cylinder types/concentrations) must be reported to the Facility Manager before proceeding.
Facility Manager	The Facility Manager shall ensure that employees who perform cylinder devalving activities adhere to these requirements.

3 Procedures

3.1 Preparation

3.1.1 Prior to conducting cylinder devalving activities, a complete inventory of all discarded cylinders, including a detailed description of cylinder sizes and contents (gases and concentrations), shall be reviewed and approved by the Facility Manager. Only cylinders that contain gasses referenced in Section 1.2 of this SOP will be processed.

3.1.2 Set up a workstation in the "Warehouse Transfer Station/Storage" area or on the "Concrete Dock" area referenced in **Figure 1 "Facility Site Plan"**. The immediate workstation area shall be free of any hazardous waste containers and include the following pieces of equipment:

- A flat surface equipped with a vice or other device designed to hold cylinders in a horizontal, secure, stationary position. This will ensure the cylinder will remain in a secure position and not roll away from the work area.
- A manifold with the following features:
  - A fitting used to connect discarded cylinders to the manifold system. A high-pressure gauge capable of reading pressures from 500 to 4,000 psi. A low-pressure gauge capable of reading pressures from 0 to 500 psi.
  - An inlet fitting used to connect a backfill cylinder to the manifold system and pressurize the discarded cylinder.
  - A valve-operated outlet vent used to depressurize and release gas from the manifold system.
- A set of hand tools (including adjustable wrenches) to be used for attaching cylinders to the manifold, tightening fittings, and removing valves from cylinders.

3.1.3 One technician will conduct the testing. The Facility manager will be informed before work begins. A multi-gas meter (detecting Oxygen, Carbon Monoxide, LEL and Hydrogen Sulfide) will be placed in the breathing area and left running at all times. The technician will periodically check the meter to ensure that gas levels are appropriate for work to continue and do not present a hazard (i.e. oxygen levels not below 19.5%).

3.1.4 The Facility Manager will produce a list of discarded cylinders that will be emptied and de-valved. The technician will compare the label on the discarded cylinders to be devalved to the list provided by the Facility Manager. If the gas mixture indicated on the label includes gases or concentrations other than those listed on the Facility Manager's reviewed/approved list, the technician will contact the Facility Manager for further instructions.

3.2 Testing of Discarded Cylinders

3.2.1 No more than 8 cylinders will be tested and emptied at a time. The technician will pressure test each cylinder to determine if full or empty. If full, the technician will place each discarded cylinder on the flat surface in the workstation, as defined in Section 3.1.2, and secure it tightly in a horizontal position. The technician will attach the discarded cylinder to

the manifold and verify that all valves are closed. The valve of the discarded cylinders will be opened slowly.

3.2.2 Once the discarded cylinders are pressure tested the full cylinders will be correctly attached and the manifold system. The discarded cylinder pressure will be checked through a high-pressure gauge (500 to 4000 psi). If the gauge indicates that the manifold system is pressurized above 500 psi, the outlet vent valve will be opened slowly to begin removing gas from the discarded cylinder. Once the gauge reading drops to 500 psi, the first technician will turn his attention to the low-pressure gauge and confirm that the pressure of the system continues to drop below 500 psi. The contents of the cylinder will continue to be bled through the outlet vent until the low-pressure gauge indicates that the pressure has dropped. A reading of 0 psi will indicate that the discarded cylinder is "empty" (per 40 CFR 261.7(b)(2)). The outlet vent valve and the discarded cylinder valve will then be closed.

3.3 Devalving Empty Cylinders

3.3.1 No more than 8 cylinders may be emptied at a time. Then discarded cylinder may be de-valved. A multi-gas meter will be employed during devalving operations.

3.3.2 Each empty, discarded cylinder will be placed in a horizontal position on the flat surface in the workstation, as defined in Section 3.1.2, and secured by means of a vice or similar device. The technician will use an adjustable wrench or similar hand tool to slowly spin the valve in a counterclockwise motion. The technician will continue to apply pressure and spin the valve until the valve has detached from the cylinder.

3.4 Documenting and Disposing of Emptied/Devalved Cylinders

3.4.1 Each cylinder that has been emptied and devalved shall be documented and logged by the Facility Manager. The Facility Manager will maintain a log of all processed cylinders for three (3) years from when a discarded cylinder is emptied and devalved. The log will include the following information:

- Barcode
- Cylinder Contents (including full chemical names and concentrations as indicated on the manufacturer's label)
- Cylinder Type ("Lecture" or "Small")
- Cylinder Pressure
- Processing Date (date that cylinder was emptied at the site)
- Cylinder Emission Weight
- Total Facility Emissions (sum of emissions released within a 12-month time period, measured in pounds).

3.4.2 All emptied/devalved cylinders are managed as non-hazardous waste and shipped offsite to appropriate disposal or recycling facilities.

4 Training

4.1 Training Scope and Timeline

Party	Task
Facility Staff	Trained prior to performing any devalving operations.
Facility Manager	Trained prior to performing any devalving operations.

4.2 Re-training Timelines

Party	Task
Facility Staff	Trained annually or if any major changes to the SOP.
Facility Manager	Trained annually or if any major changes to the SOP.

5 Document Tracking

Old Revision#	New Revision#	Approval Date	Effective Date	Description of Change	Approver
N/A	0 (Original)	August 12, 2022	Effective Upon Permit Approval	• Created SOP for cylinder devalving process.	Kevin Coulon

6 Appendix

6.1 Figure 1 “Facility Site Plan”

6.2 Processed Cylinder Log

Figure 1 "Facility Site Plan"

Processed Cylinder Log – 3670 SW 47th Avenue, Davie, FL 33314

Barcode	Cylinder Contents[a]	Cylinder Type ("Lecture" or "Small")	Cylinder Pressure (psi)	Processing Date[b]	Cylinder Emission Weight (lbs)	Total Facility Emissions (lbs)[c]

(a) Include full chemical names and concentrations as indicated on the manufacturer's label.

(b) Date that cylinder was emptied at the site. Included month, day, and year.

(c) Sum of emissions released within a 12-month time period, measured in lbs.

Used Oil and Material Processing Facility Permit Renewal Application

Attachment Q: Permit Related Forms

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Permit Related Forms

The following forms are included for use with the Used Oil and Material Processing Facility permit:

a. **Oil Inventory Log**
b. **Daily Inspection Log**
c. **TEI Waste Profile (Blank)**
d. **Used Oil Manifest**

Facility Inventory Log – Used Oil Operations (3670 SW 47th Ave)

Date	Inches	Gallons	Balance	Transaction	To/From

Tank #		Product	

Daily Inspection Form – 3670 SW 47th Ave

1	2	3		4				5			6	7	8	9	10	11	12
Date & Time	Inspected By	# of Drums		Condition (S or U)				Leaks or Spills			Safety Showers and Eyewash Stations	Emergency Response Kits	Comm Sys.	Fire Ext.	Conting. Plan Posted	Comments or Discrepancies	Resolutions of Discrepancies
		Haz	Non-Haz	Drums	Cont Area	Fittings	Pumps	Drums	Cont. Area	Unload Area							Date/Action Taken

Additional Comments:

TRIUMVIRATE ENVIRONMENTAL

TRIUMVIRATE ENVIRONMENTAL (FLORIDA), INC.
3701 S.W. 47TH AVENUE, SUITE 109 • DAVIE, FL. 33314
BROWARD (954) 583-3795 FAX (954) 583-8017
TOLL FREE (800) 959-9543

MPF#

MATERIAL PROFILE FORM

A GENERAL INFORMATION

Customer _____
Billing Address _____
Customer Contact Person _____
Address _____
Address _____
City _____
State _____ Zip _____ Phone (____) _____

Generator/Facility (If different) _____
EPA ID# _____
Generator Contact Person _____
Pick-up Address (If different) _____
City _____ State _____ Zip _____
Note: P.O. Box unacceptable for pick-up address
Phone (____) _____ Fax # _____
Purchase Order # _____

B WASTE DESCRIPTION

NAME OF WASTE _____
PROCESS GENERATING WASTE _____

C GENERAL CHARACTERISTIC (at 70°F *unless otherwise specified)*

COLOR _____ ODOR _____ ☐ NONE ☐ MILD ☐ STRONG ☐ LIQUID _____% FREE

STATE ☐ Solid ☐ Sludge ☐ Powder PHASES ☐ Single Layer ☐ Double Layer ☐ Multi-layer *If multi, how many?* _____

D SPECIAL HANDLING INSTRUCTIONS If special handling techniques are required, i.e. overpacking, specify: _____

Is a representive sample provided? ☐ YES ☐ NO

If no, explain: _____

E RCRA INFORMATION

Is this a USEPA hazardous waste? ☐ YES ☐ NO

USEPA hazardous waste codes:

_____ _____ _____
_____ _____ _____
_____ _____ _____
_____ _____ _____

F SHIPPING INFORMATION DOT hazardous material? ☐ YES ☐ NO

PROPER SHIPPING NAME _____
HAZARD CLASS _____ ID# _____ R/Q _____
ANTICIPATED VOLUME _____ Gal. _____ Yds. _____ Lbs.
_____ Drum(s) _____ Bulk
_____ One time _____ Mtly _____ Yrly Other _____
Type and size of container: _____
Weight/container: _____ Gallons: _____

G PHYSICAL PROPERTIES - CHEMICAL COMPOSITION

1 pH

☐ 2 ☐ 2 - 6 ☐ 6 - 8 ☐ 8 -10 ☐ 10 - 12.5 ☐ > 12.5 ☐ _____ ACTUAL

2 FLASHPOINT

☐ less than 100 ☐ 100 - 140 ☐ 140 - 200 ☐ > 200 ☐ _____ ACTUAL

3 BTU's 1000/lb

☐ < 1 ☐ 1 - 4 ☐ 4 - 8 ☐ 8 - 12 ☐ 12 - 18 ☐ > 18 ☐ _____ ACTUAL

4 HALOGENS (%)

Chlorine _____
Bromine _____
Fluorine _____
Iodine _____
Total _____

5 OTHER COMPONENTS

PCBs _____(ppm)
Others: _____

6 RCRA METALS ☐ TCLP (mg/l) ☐ TOTALS (mg/kg or mg/l)

Arsenic (As) _____ Barium (Ba) _____ Cadmium (Cd) _____
Chromium (Cr) _____ Lead (Pb) _____ Mercury (Hg) _____
Selenium (Se) _____ Silver (Ag) _____

7 Clean Water Act (CWA) Metals

(If available) in mg/l
_____ Copper _____ Zinc
_____ Nickel

8 ORGANIC TCLP COMPONENTS ☐ TCLP (mg/l) ☐ TOTALS (mg/kg or mg/l)

Code	TCLP Level (mg/l)	Name	concentration	Code	TCLP Level (mg/l)	Name	concentration
D018	0.5	Benzene		D032	0.13	Hexachlorobenzene	
D019	0.5	Carbon Tetrachloride		D033	0.5	Hexachlorobutadiene	
D020	0.03	Chlordane		D034	3.0	Hexachloroethane	
D021	100.0	Chlorobenzene		D013	0.4	Lindane	
D022	6.0	Chloroform		D014	10.0	Methoxychlor	
D023	200.0	o - Cresol		D035	200.0	Methyl Ethyl Ketone	
D024	200.0	m - Cresol		D036	2.0	Nitrobenzene	
D025	200.0	p - Cresol		D037	100.0	Pentachlorophenol	
D026	200.0	Cresol (o,, m, p)		D038	5.0	Pyridine	
D016	10.0	2,4 - D		D039	0.7	Tetrachloroethylene	
D027	7.5	1,4 - Dichlorobenzene		D015	0.5	Toxaphene	
D028	0.5	1,2 - Dichloroethane		D040	0.5	Trichloroethylene	
D029	0.7	1,1 - Dichloroethylene		D041	400.0	2,4,5 - Trichlorophenol	
D030	0.13	2,4 - Dinitrotolulene		D042	2.0	2,4,6 - Trichlorophenol	
D012	0.02	Endrin		D017	1.0	2,4,5 - TP (Silvex)	
D031	0.008	Heptachlor		D043	0.2	Vinyl Chloride	

NOTES

Results: _____

Analyst: _____

Date: _____

OTHER ORGANIC/INORGANIC COMPONENTS

Name _____ % _____
_____ _____
_____ _____

I hereby certify that all the information in this and in the attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. Information provided that is not supported by analytical/technical data is based on "applying knowledge of the hazard characteristic of the waste in light of the materials or the processes used [40 CFR 262.11(c)2]."

AUTHORIZED SIGNATURE _____ TITLE _____ DATE _____

TRIUMVIRATE ENVIRONMENTAL

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.
3701 S.W. 47TH AVENUE, SUITE 109 • DAVIE, FL 33314
BROWARD (954) 583-3795 FAX (954) 583-8017
TOLL FREE (800) 959-9543

Manifest Document
No. 214185

Visit Our Website @ www.triumvirate.com

HALOGEN SCREENING
☐ PASS ☐ FAIL

Used Product Shipping Manifest

Truck # ____ Trailer # ____

1. Generator/Shipper Name	2. EPA Identification No.	3. Generator Phone No.		4. Purchase Order No.
5. Generator/Shipper Address	**6. City**	**7. State**	**8. Zip Code**	**9. Account No.**
10. Bill To Name	**11. Address**	**12. City**	**13. State**	**14. Zip Code**
15. Transporter Name	**16. Phone Number**	**17. EPA Identification Number**		
TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.	954-583-3795	FLD 981018773		
18. Transporter Address	**19. City**	**20. State**	**21. Zip Code**	
3701 S.W. 47TH AVE., #109	DAVIE	FLORIDA	33314	
22. Designated Facility Name	**23. Phone Number**	**24. EPA Identification Number**		
TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.	954-583-3795	FLD 981018773		
25. Designated Facility Address	**26. City**	**27. State**	**28. Zip Code**	
3670 S.W. 47TH AVENUE	DAVIE	FLORIDA	33314	
29. Comments				

☐ COD
☐ CASH
☐ CHECK
☐ VISA
☐ MASTERCARD
☐ DIRECT BILL
☐ CREDIT
☐

30. US DOT Proper Shipping Description			CONTAINERS					CHARGES
HM		SHIPPING NAME	NO.	TYPE	TOTAL QTY	UNIT WT/VOL	UNIT PRICE	TOTAL PRICE
X	a	NA 1993, Combustible Liquid, N.O.S. Combustible Liquid, PG III (petroleum distillates)						
	b	Non-Hazardous Material (used oil filters)						
	c	Non-Hazardous Material (rags & absorbent material)						
	d	Spent Mercury Lamps for Recycle (used fluorescent bulbs)						
	e	Non-Hazardous Material (oily water)						
	f	Non-Hazardous Material (soils)						
	g	Non-Hazardous Material (sludge)						
	h	Non-Hazardous Material (anti-freeze/coolant)						
	i	USED OIL (NON-DOT REGULATED)						
X	j	NA 1993, Diesel Fuel, PG III						
	k	Transportation Surcharge						
	l	Recovery Fee						
	m							

Important: Payment due upon receipt of invoice. A service charge of 1½% per month (18% annum) will be charged on balances over 30 days past due. All past due accounts subject to a minimum service charge of $1.50 per month. In the event it shall become necessary to the herein above described sums, or any part thereof, the purchaser agrees to pay all costs thereof, including reasonable attorney's fees.

Total Due

31. Special Handling Instructions and additional information
IN CASE OF EMERGENCY CALL 800-966-9282

Handling Codes

32. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Date

33. Transporter Acknowledgement of Receipt of Materials:

Printed/Typed Name	Signature	Date

34. Discrepancy Indication Space for Designated Facility

35. Designated Facility Owner/Operator Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date

DISTRIBUTION: WHITE - ACCOUNTING **YELLOW - CUSTOMER SERVICE** **PINK - COPY** **GOLDENROD - GENERATOR**

Used Oil and Material Processing Facility
Permit Renewal Application

Attachment R: Emergency Action and Fire Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

Emergency Action and Fire Prevention Plan

Document History:

Date	Author	Description
10/7/14	Kyle Lapic	Document creation
10/20/2020	Randy Troy	Update to Appendix A and B

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Appendix A: EAP/FPP Contact List

Appendix B: External Responder List

1.0 Purpose

The combined Emergency Action and Fire Prevention Plan has been developed to ensure that Triumvirate Environmental, (Florida) Inc. (TEI) employees and visitors will be safe in the event of a fire or other emergency.

2.0 Scope

This document details the employee and employer responsibilities using the Incident Command System (ICS) and the actions that are to be taken during workplace emergencies. It includes, but is not limited to, responses to fires, chemical spills, bomb threats and weather-related disasters. This written plan is written to comply with 29 CFR 1910.38 Emergency Action Plan Standard and 29 CFR 1910.39 Fire Prevention Plan Standard and is available for review by employees, supervisors, and managers.

3.0 Responsibilities

3.1 Incident Commander (IC)/ Environmental, Transportation, Safety, and Compliance Specialist (ETSC)

3.1.1 Developing, maintaining, and executing the plan,
3.1.2 Conducting evacuation drills,
3.1.3 Training employees to understand their role under the ICS,
3.1.4 Ensuring Emergency Evacuation Maps are posted and updated as necessary.

3.2 Evacuation Coordinator/ Alternate Evacuation Coordinator

3.2.1 Checking assigned areas to ensure employees leave the building during an evacuation,
3.2.2 Providing a head count of employees in their area to the IC once employees have assembled at the Rally Point.

3.3 Employees

3.3.1 Understanding their role in the EAP and FPP,
3.3.2 Following directions given to them by those having incident command responsibilities.

4.0 Reporting Fires and Emergencies

4.1 Fires and other emergencies will be reported as follows:

4.1.1 If immediate outside assistance is required;
4.1.2 Dialing 911 (24 hours a day),
4.1.3 Emergencies that do not require immediate outside assistance;
4.1.4 Incident Commander/ ETSC (Standard work hours, 7 AM to 5 PM)

5.0 Plan Assignments

Triumvirate personnel who have specific assignments are listed in Appendix A along with their contact information.

6.0 Evacuation Routes and Headcount Procedures

6.1 Evacuation Routes

Evacuation route maps are posted throughout the building. In the event of an evacuation, all employees are to proceed to the nearest available exit and leave the building following the primary or secondary evacuation route from their current location. No employee is permitted to re-enter the building until advised by the Incident Commander.

6.2 Alarm System Requirements

Employees are notified of emergencies in two ways. Emergencies which require an evacuation of the building (fire, etc.) will be announced through the use of the fire alarm system. When activated, a continual loud siren will be heard. The second method of emergency notification is a manual evacuation and will be facilitated by the Incident Commander or their designee. The manual evacuation maybe activated through the all page phone system. The all page can be used by dialing **2421** to speak into every phone in the office. This system will be used for all emergencies which do not require the buildings to be evacuated, such as inclement weather/shelter in place or medical emergencies.

6.3 Rally Points and Headcount Procedures

For all evacuation events, employees will proceed to their assigned rally point immediately upon exiting the building. The rally point for the building is located in the parking area along SW 47th Street. If safe to do so, the rally point may be moved to the parking lot. This will be facilitated by the Incident Commander or ETSC. The building will remain evacuated until advised by the Incident Commander, the Fire Department or another responsible agency.

Once an evacuation has been completed and all employees are at the rally point, an employee who has been trained under this plan will conduct a headcount to account for all employees who were in the building. In addition to the Visitor's Log, which will be taken out to the rally point by one of the trained employees. Department heads or their designated trained representatives should check rooms and other enclosed spaces in their immediate area for employees who may be trapped or otherwise unable to evacuate. Employees that need assistance due to a disability will be assigned a "buddy" during the evacuation.

The team member performing the headcount will use the Visitor's Log and the information provided by the department heads to develop the list of employees who were in the building at the time of the evacuation. A headcount will be conducted and reconciled with the employee list. If there is a discrepancy between the two lists, emergency responders will be notified that a search will need to be initiated. The VP and Incident Commander will be continually updated on these events.

7.0 Training

7.1 Training for Management and Employees in the ICS

Managers and employees who have been assigned responsibilities under the EAP/FPP will receive annual training on the Incident Command System (ICS) and plan structure.

7.2 Training for Other Employees

Employees who do not have specific roles in the ICS will receive initial training on Triumvirate's EAP/FPP during New Employee Orientation training. Training will include the use of floor plans and facility maps to identify the emergency evacuation routes that are included in the EAP. Employees will participate in an annual evacuation drill to ensure that everyone is competent to perform their role under the EAP/FPP. Refresher training is conducted whenever an employee's responsibilities change under the plan.

8.0 Emergency Procedures

8.1 Medical Emergencies

Field operations employees have been trained in first aid/CPR, the Heimlich maneuver, and Bloodborne Pathogens. These employees work in various departments throughout the company and can be called upon in a medical emergency. First aid stations, stocked with appropriate supplies such as bandages and non-prescription pharmaceutical products, are located throughout the building. There is one located in the kitchen and the other is in the back TSR room by the exit. Medical Emergencies beyond simple first aid will require the injured employee to be transported to the hospital by ambulance.

8.2 Criminal Acts, Suspicious Acts, and Employee Terminations

Criminal or suspicious acts, which include unauthorized personnel on Triumvirate property, theft, workplace threats and violence, must be reported immediately to the Compliance Department or branch ETSC. If there is immediate danger associated with the situation, dial 911 to contact the Davie Police Department. During employee termination procedures, the TEI representatives must be cognizant of any signs of agitation on the part of the terminated employee. When the termination procedures are completed, the employee must be escorted out of the

building and kept under observation until they have vacated both the 3701 and 3760 premises.

8.3 Bomb Threats

If a bomb threat is called in to the main switchboard, the receptionist on duty will attempt to keep the caller on the line and obtain as much information concerning the threat as possible. The information that the receptionist should attempt to obtain includes: the caller's name, the type and location of the bomb, when the bomb will detonate and the reason for the threat. The receptionist should stay on the line until the caller hangs up. Once the call is terminated, the receptionist should report the call to the COO, Vice President of Operations, the Director of Compliance, and Branch ETSC. The Director of Compliance will then report the bomb threat to the Davie Police Department and determine if a facility evacuation is necessary. Training will be provided to all Reception Personnel who may be on the switchboard.

8.4 Utility Interruption

In the event of an electrical power interruption, the emergency lights will turn on in key areas of the building, as well as the main exits. Either the branch manager or ETSC will place a call to the electric company to identify the source and timeline of the power outage. Depending of the information received from the electric company, the branch manager or ETSC will make a decision on whether the facility will be evacuated or whether all employees can safely remain in the facility until the power is restored.

8.5 Inclement Weather/Shelter in Place Instructions

If an inclement weather announcement, e.g. storm with high winds, hurricane, tropical storm or tornado, requires employees to be sheltered in place, an announcement will be made by members of the Emergency Action Plan Team and a branch email will be sent out. All employees will proceed to the designated shelter in place locations, which are the back corner TSR offices at Building 3701. This area is designated as the shelter in place locations on the emergency evacuation maps.

8.6 Fire

8.6.1 Reporting and Evacuation Procedures

An employee who discovers a fire must immediately contact the Davie Fire Department by activating the fire alarm system or dialing 911 to report the fire. If the employee has been trained in the use of fire extinguishers, they can attempt to extinguish the fire if it is an incipient stage fire (1 cubic foot or less in size or the size of an office wastebasket). After the fire has been reported, all employees will evacuate the building following the evacuation procedures detailed in Section 5.0 of this Plan. If the fire is called in using 911 and the fire alarm system has not, or cannot be

activated, the person reporting the fire must contact the branch manager or ETSC to activate the Emergency Action Plan Team. All Fires must be reported to the Incident Commander and ETSC.

8.6.2 Potential Fire Hazards

In building 3701 the main potential for a fire would be from combustible material such as paper products and cardboard boxes. This material is stored throughout the building, and material that is to be recycled is located in the warehouse section of the building.

8.6.3 Fire Prevention

Offices are to be kept neat at all times in order to prevent the accumulation of combustible materials such as paper and cardboard boxes on desks or the floor. All entrances and aisles must be kept free of slip and trip hazards in order to ensure that evacuation routes are kept clear.

8.6.4 Chemical Spills

Chemical spills may occur on the 3760 property when chemical containers are moved within the trailers or transported onto the site. Chemical spills, regardless of size, must be reported immediately to the Compliance Department to determine the appropriate response actions.

8.6.5 Gas Leaks

If the odor of natural gas is detected, the branch ETSC must be notified immediately. If a gas leak is suspected, the appropriate utility will be contacted and a decision on evacuation will be determined.

Appendix A

EAP/FPP Contact List

Name	Title	Cell #	Alt. Tel. #
Shawn Lennon	Incident Commander/ General Manager	954-296-3873	954-583-3795
Ryan Mohansingh	Incident Commander/ Operations Manager	954-607-3204	954-583-3795
Kevin Coulon	Incident Commander/General Manager, SE Region	781-254-5467	407-859-4441
Randy Troy	Incident Commander/ETSC	260-416-4981	407-859-4441
Cindy Sheeler	Evacuation Coordinator /TSR	954-583-3795	954-817-2789

Appendix B

External Responder List

Agency	Telephone #
All Emergency Calls	911
Davie Police Dept.	954-693-8200
Davie Fire Dept.	954-797-1213
Broward County Sheriff	954-831-8901
Plantation General Hospital (primary)	954-587-5010
Broward General Hospital (secondary)	954-355-4400
Poison Control Center	800-222-1222
EPA Emergency Response Team	800-241-1754
Florida Division of Emergency Management	800-320-0519
National Response Center	800-424-8802
Chemtrec	800-424-9300
Center for Disease Control	404-639-3311
ADT Alarm Company	877 338-2661
Property Manager / Montalbano Commercial Realty, Inc.	954-321-6464

Used Oil and Material Processing Facility
Permit Renewal Application

Attachment S: Compliance History

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Compliance History

The site's compliance history showing all inspections and enforcement actions for the past 5 years is shown in **Attachment S**.

Triumvirate Compliance History Report

Site	Entity	Inspection Date	Agency	Resulting Action	Abbreviated Details	Corrective Action	Penalty ($)	Status
Davie - Facility	Triumvirate Environmental Services, Inc.	1/18/2017	Florida Department of Environmental Protection (FDEP)	None	No issues were noted.	None required.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	7/17/2018	US Coast Guard - Port of Miami	None	No issues were noted.	None required.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	2/11/2019	Florida Dept of Health (DOH)	None	No issues were noted.	None required.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	2/20/2019	Florida Department of Environmental Protection (FDEP)	None	No issues were noted.	None required.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	6/24/2019	US Coast Guard	None	No issues were noted.	None required.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	9/11/2019	Florida Department of Environmental Protection (FDEP)	None	No issues were noted.	None required.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	10/23/2019	Broward County Env Protection and Growth Mgmt Dept	Notice of Violation	Inspector from the Broward County Environment and Consumer Protection Division inspected the site. He noted we did not have an API-653 inspection record immediately available for the storage tanks.	A contractor had already been contacted to conduct storage tank inspections. They were in the process of being approved in TEI's PO system when the inspection occurred. The tank inspections took place in December 2019 and all tanks were in compliance.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	10/23/2019	US DOT	None	No violations were issued but inspector recommended implementing three improvements related to drum closures and overpack labeling.	Items recommended by the inspector were evaluated and incorporated into practice.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	12/16/2020	Town of Davie Fire Rescue Department	None	No issues were noted.	None required.	$ -	Closed
Davie - Facility	Triumvirate Environmental Services, Inc.	3/18/2021	FLDEP	None	FDEP inspected the facility on March 18, 2021. Due to COVID restrictions, documents were not reviewed onsite and were sent to the inspector via email. On April 13, 2021 a Compliance Assistance Offer (CAO) letter was received stating one item was potentially out of compliance. The item noted was that a non-haz Trace Chemo profile listed arsenic trioxide, which should have made the waste a hazardous waste due to the P-code. The issue was investigated and it was determined the arsenic trioxide was included by error on the profile. A response letter was sent to FDEP on April 23, 2021. A Return to Compliance letter was sent to TEI on April 26, 2021.	Triumvirate updated the profile in question and did retraining. A response letter was sent to FDEP on April 23, 2021. A Return to Compliance letter was sent to TEI on April 26, 2021.	$ -	Closed

Used Oil and Material Processing Facility
Permit Renewal Application

Attachment T: Landowner Approval

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

CONFIDENTIAL

PROPRIETARY BUSINESS INFORMATION

February 5, 2020

Re: 3670 SW 47th Avenue, Davie, FL 33314 (the "Premises")

To Whom It May Concern:

Pursuant to 62-701.710(2), F.A.C. and 62-701.320(7)(g), F.A.C., please be advised that TEI Davie, LLC, a Florida limited liability company and owner of the Premises, hereby authorizes Triumvirate Environmental Services, Inc., a Florida corporation, to use the Premises for a waste processing facility

Sincerely,

Emily Duquette
Director, Legal & Assistant Secretary
TEI Davie, LLC

Used Oil and Material Processing Facility Permit Renewal Application

Attachment U: Site Photographs

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

Photo 1: Facility Entrance at SW 47th Ave

Photo 2: Stormwater Collection Area (View from the West)

Photo 3: Truck Parking Area near Warehouse Transfer Station/Storage Area (View from the Southeast)

Photo 4: Facility Office (left), Tanker Unloading Area (center), Roll-off Area (right) (View from the West)

Photo 5: Tanker Unloading Area with Secondary Containment #3 (View from the West)

Photo 6: Non-Hazardous Waste Roll-Off Area with Secondary Containment #3 (View from the West)

Photo 7: Vertical Aboveground Storage Tanks with Secondary Containment #1 (View from the North)

Photo 8: Vertical Aboveground Storage Tanks with Secondary Containment #1 (View from the Northeast)

Photo 9: Horizontal Aboveground Storage Tanks in Secondary Containment #1 (View from the North)

Photo 10: Tank 21 and Tank 22 in Secondary Containment #4 (View from the South)

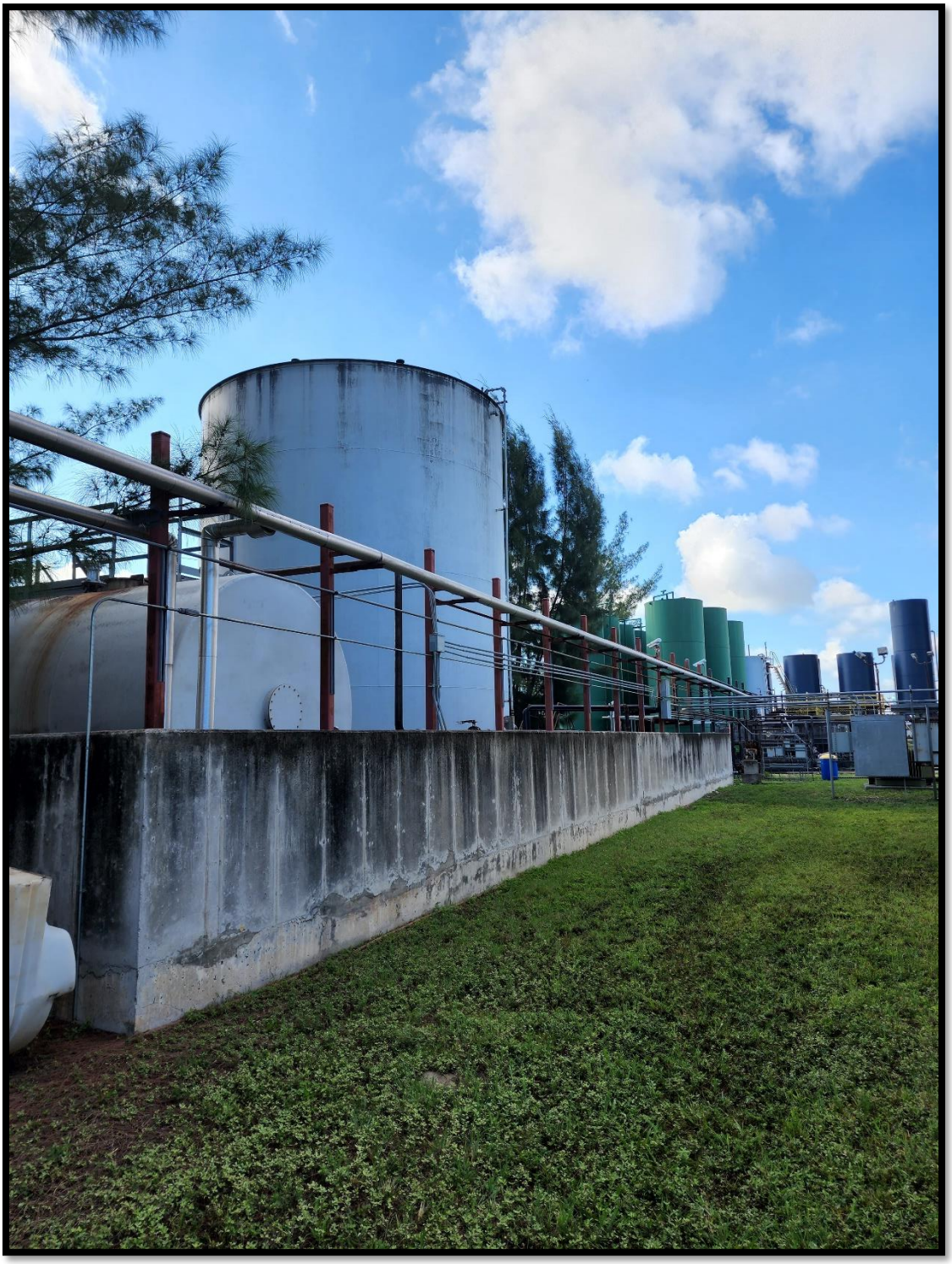

Photo 11: Tank 21/22 (foreground) and Tank 1-18 (background) (View from the North)

Photo 12: Tank 7 in Secondary Containment #2 (View from the West)