APPLICATION TRACKING SYSTEM 10/30/91

APPL NO:204220
APPL RECVD:10/29/91 TYPE CODE:HT SUBCODE:01 LAST UPDATE:10/30/91
DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:__/__/__
DER PROCESSOR:HWP
APPL STATUS:AC DATE:10/29/91 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)
RELIEF:__ (SSAC/EXEMPTIONS/VARIANCE)
(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:52
(Y/N) N OGC HEARING REQUESTED LAT/LONG:27.54.00/82.40.21
(Y/N) N PUBLIC NOTICE REQD? BASIN-SEGMENT:__.___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:_____
(Y/N) Y LETTER OF INTENT REQD? _ (I/ISSUE D/DENY) ALT#:___-_____

PROJECT SOURCE NAME:TIM'S OIL RECOVERY
STREET:843 43RD ST. S. CITY:ST. PETERSBURG
STATE:FL ZIP:_____ PHONE:___-___-____
APPLICATION NAME:HOWCO ENVIRONMENTAL SERVICES
STREET:843 43RD ST. S. CITY:ST. PETERSBURG
STATE:FL ZIP:33711 PHONE:___-___-____
AGENT NAME:WALTER DJORDJEVIC
STREET:6733 1ST AVE. S. CITY:ST. PETERSBURG
STATE:FL ZIP:33707 PHONE:___-___-____
FEE #1 DATE PAID:10/29/91 AMOUNT PAID:01000 RECEIPT NUMBER:00181520

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE __/__/__
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT __/__/__ __/__/__
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. __/__/__
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT __/__/__ __/__/__
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT __/__/__ __/__/__
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT __/__/__ __/__/__
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT __/__/__ __/__/__
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT __/__/__ __/__/__
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT __/__/__ __/__/__
F DATE LAST 45 DAY LETTER WAS SENT __/__/__
G DATE FIELD REPORT WAS REQ--REC __/__/__ __/__/__
H DATE DNR REVIEW WAS COMPLETED __/__/__

I DATE APPLICATION WAS COMPLETE __/__/__
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS __/__/__
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT __/__/__ __/__/__
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT __/__/__
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED __/__/__
N WAIVER DATE BEGIN--END (DAY 90) __/__/__ __/__/__

COMMENTS:

HOWCO
ENVIRONMENTAL SERVICES LTD.
"...conserving limited natural resources through recycling while protecting the environment and public health and welfare." ™

October 28, 1991

Dr. Richard D. Garrity
Deputy Assistant Secretary
4520 Oak Fair Boulevard
Tampa, FL 33610

Dear Dr. Garrity:

Please find enclosed the application for a T.O.P. per Mr. Satish Kastbury's letter of October 10, 1991 received by this facility October 16, 1991. Due to the short time frame for execution the topographic map will follow under separate cover.

I have also enclosed another copy of our Part A application which was sent to the Department in September 1990 upon our filing with the EPA.

Sincerely,

HOWCO ENVIRONMENTAL SERVICES, INC.

William N. Church, Jr.
General Manager

WNC:tmk

Enclosures

843 43rd Street So. • St. Petersburg, FL 33711 • (813) 323-0818 • 1-800-334-6926 • Fax 1-813-323-2249

DER Form # 17-730.900(2)
Form Title Ap. for a Hazardous Waste Facility Permit
Effective Date June 1, 1990
DER Application No. _____ (Filled in by DER)

Line-By-Line Instructions for Completing the Application for a Hazardous Waste Facility Permit

Part I - General Facility Information

A. General Information

1. Enter an "X" in the appropriate block for each type of facility and operational unit for which a permit application is being filed.
2. Enter an "X" in the appropriate block for the type of permit application.
3. Enter an "X" in the appropriate block for application submitted.
4. Enter the date operation began or the proposed date of operation.
5. Enter the full legal name of the facility.
6. Enter the facility's identification number assigned when notification was originally filed with EPA or DER.
7. Enter the location or street address of the facility. If the facility lacks a street name or route number, give the most accurate alternative geographic information.
8. Enter the complete mailing address of the facility.
9. Enter the name, title, mailing address and telephone number of an employee who is thoroughly familiar with the operation of the facility and who can be contacted in regard to the application.
10. Enter the full legal name of the operator if different from number 8.
11. Enter the full mailing address of the operator if different from number 8.
12. If the facility owner or operator are not the same person, enter the name of the owner.
13. If applicable, enter the mailing address of the facility owner.
14. Enter an "X" in the appropriate block to indicate the facility's legal status.
15. If applicable, enter the name of the county and state.
16. If applicable, enter the state of incorporation.
17. If applicable, provide name and mailing address of all owners.
18. Enter an "X" in the appropriate block, and provide other appropriate information relating to site ownership.
19. Provide the name of the engineer who will certify the application along with his registration number and address. If the engineer is associated with a firm, provide the firm's name.
20. Enter an "X" in the appropriate block indicating whether the facility is on Indian land.
21. Provide the name, agency, permit number, date issued, and expiration date of all existing federal, state, and local environmental permits currently held by the facility. If issuance of an environmental permit is pending, indicate the agency and type of permit for which application has been made. If necessary, list additional permit information on a separate sheet of paper.

B. Site Information

1. Enter the county name and the nearest community to the facility. Provide the latitude and longitude to the approximate geographic center of the facility. This information should be taken from the most recent USGS topographic map available.
2. Enter the area in acres of the facility site. A facility site includes all contiguous land and structures, other appurtenances and improvements on the land used for treating, storing, or disposing of hazardous waste. A facility site may consist of several treatment, storage, or disposal operational units.
3. Attach a scale drawing and photographs of the facility showing the location of all past, present, and future treatment, storage, and disposal areas.
4. Attach a topographic map of the area extending one mile beyond the property boundaries of the facility site. The map should be at a 1 inch to 2000 feet scale and show the following:
   a. Map scale and date
   b. 100-year floodplain area
   c. Orientation of the map
   d. Surface water bodies within ¼ mile of the facility property boundary (e.g., intermittent streams and springs)
   e. Surrounding land uses
   f. Legal boundaries of the facility
   g. Injection wells used by the facility within one mile of the facility property boundaries
   h. Drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary
   i. Intake and discharge structures within one mile (e.g., NPDES outfalls, cooling water intake)
5. Enter an "X" in the appropriate block.

DER Form # 17-730.900(2)
Form Title Ap. for a Hazardous Waste Facility Permit
Effective Date June 1, 1990
DER Application No. _____ (Filled in by DER)

C. Land Use Information

1. Enter the present zoning of the site.
2. In those cases where a zoning change is needed, identify the zoning required.
3. Enter the present land use of the site - agricultural, commercial, residential, industrial, recreational, etc.

D. Operating Information

1. Enter an "X" in the appropriate block. List in descending order of significance, the 4-digit standard industrial classification (SIC) codes which best describe your facility in terms of the principal products or services produced or provided.

   SIC codes numbers are descriptions which may be found in the "Standard Industrial Classification Manual" prepared by the federal Office of Management and Budget, or in the "Directory of Florida Industries" published by the Florida Chamber of Commerce.
2. Attach a clear and concise description of the facility operation including a general description of the facility, the nature of the business, and the activities that generate, treat, store or dispose of hazardous waste at your facility. If hazardous waste is received from off-site, identify the types of industries generating or supplying the waste. Describe the various steps and items of equipment employed from receipt of waste to ultimate disposition of the waste. Show calculations which illustrate the capacity of the site and estimated life of the operation.
3. Enter the following information in the table provided:
   For each process that is involved in treating, storing, or disposing of the hazardous waste, list applicable process codes, design capacities, and units of measure for the regulated unit to which the process applies, the code of the hazardous waste(s) involved in the process (from 40 CFR Part 261), and the expected annual quantity and unit of measure for each hazardous waste code. Applicable process codes and units of measure are as follows:

Process	Process Code	Appropriate Units of Measure for Process Design Capacity
Storage:		
Container (barrel, drum, etc.)	S01	Gallons (G) or Liters (L)
Tank	S02	Gallons (G) or Liters (L)
Waste Pile	S03	Cubic Yards (Y) or Cubic Meters(C)
Surface Impoundment	S04	Gallons (G) or Liters (L)
Disposal		
Injection Well	D79	Gallons (G) or Liters (L)
Landfill	D80	Acre-Feet (A) (the volume that would cover one acre to a depth of one foot) or Hectare-Meter (F)
Land Application	D81	Acres (B) or Hectares (Q)
Ocean Disposal	D82	Gallons Per Day (U) or Liters Per Day (V)
Surface Impoundment	D83	Gallons (G) or Liters (L)
Treatment:		
Tank	T01	Gallons Per Day (U) or Liters Per Day(V)
Surface Impoundment	T02	Gallons Per Day (U) or Liters Per Day(V)
Incinerator	T03	Tons Per Hour (D) or Metric Tons Per Hour (W); Gallons Per Hour (E) or Liters Per Hour (H)
		Other (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators.) Describe the processes in the space provided.

DER Form # 17-730.900(2)
Form Title Ap. for a Hazardous Waste Facility Permit
Effective Date June 1, 1990
DER Application No. _____ (Filled in by DER)

Part II - Specific Facility Information

Requirements for Section A - O correspond to the final hazardous waste facility operation standards promulgated in 40 CFR Parts 264. These standards referenced in the application have been adopted as state rules in Chapter 17-730, FAC, (Section 17-730.180, Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities). The required information to be submitted by each applicant is intended to establish compliance with these adopted standards and must be attached for the application to be considered complete.

Certification

The certification section must be signed by the appropriate parties in order to certify all the information included in the application. For purposes of the application, the appropriate parties for the operator, facility owner, and landowner certification include the following individuals or their authorized representatives.

(1) For a corporation: by a principal executive officer of at least the level of vice president;
(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
(3) For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

When certified by an authorized representative, a letter of authorization must be included.

The application must also be certified by a professional engineer registered in Florida and must include his registration number and seal.

DER Form # 17-730.900(2)
Form Title Ap. for a Hazardous Waste Facility Permit
Effective Date June 1, 1990
DER Application No. _____ (Filled in by DER)

D.E.R.
OCT 29 1991
Southwest District Tampa

Application for a Hazardous Waste Facility Permit

HT52-204220

Part I - General

To Be Completed By All Applicants

Please Type or Print

A. General Information

1. Type of Facility:
   - Disposal [X] Landfill [ ] Land Treatment [ ] Surface Impoundment [ ] Miscellaneous Units [X]
   - Storage [X] Containers [X] Tanks [X] Piles [ ] Surface Impoundment [ ] Miscellaneous Units [X]
   - Treatment [X] Tanks [X] Piles [ ] Incineration [ ] Surface Impoundment [ ] Miscellaneous Units [X]
2. Type of Application: [X] TOP [ ] Construction [ ] Operation [ ] Closure [ ] RD&D
3. Application Submittal: [X] New [ ] Revised
4. Date current operation began (or is expected to begin): Water plant began operations in mid 1986 processing petroleum comtaminated water.
5. Facility Name: Howco Environmental Services/Tim's Oil Recovery
6. EPA/DER I.D. No.: SEE ATTACHED
7. Facility location or street address: 843 43rd Street South/St. Petersburg, FL 33711
8. Facility mailing address: 843 43rd Street South (Street or P.O. Box) St. Petersburg (City) FL (State) 33711 (Zip)
9. Contact person: William N. Church, Jr. Telephone: (813) 323-0818
   Title: General Manager
   Mailing address: 843 43rd Street South (Street or P.O. Box) St. Petersburg (City) FL (State) 33711 (Zip)
10. Operator's name: A. Timothy Hagan Telephone: (813) 323-0818
11. Operator's address: 843 43rd Street South (Street or P.O. Box) St. Petersburg (City) FL (State) 33711 (Zip)
12. Facility owner's name: A. Timothy Hagan
13. Facility owner's address: 3913 46th Avenue South (Street or P.O. Box) St. Petersburg (City) FL (State) 33711 (Zip)
14. Legal structure: [X] Corporation [ ] Non-Profit Corporation [ ] Partnership [ ] Individual
    [ ] Local Government [ ] State Government [ ] Federal Government [ ] Other _____
15. If an individual, partnership, or business is performed under an assumed name, specify county and state where name is registered.
    County: N/A State: N/A
16. If a corporation, indicate state of incorporation Florida.

DER Form # 17-730.900(2)
Form Title Ap. for a Hazardous Waste Facility Permit
Effective Date June 1, 1990
DER Application No. _____ (Filled in by DER)

17. If an individual or partnership, list owners:

Name: N/A

Address: _____ (Street or P.O. Box) _____ (City) _____ (State) _____ (Zip)

Name: N/A

Address: _____ (Street or P.O. Box) _____ (City) _____ (State) _____ (Zip)

Name: N/A

Address: _____ (Street or P.O. Box) _____ (City) _____ (State) _____ (Zip)

Name: N/A

Address: _____ (Street or P.O. Box) _____ (City) _____ (State) _____ (Zip)

18. Site ownership status: [X] Owned [ ] To be purchased [ ] To be leased _____ years

[ ] Presently leased: Expiration date _____ If leased, give:

Land owner's name A. Timothy Hagan

Land owner's address 3913 46th Avenue South (Street or P.O. Box) St. Petersburg (City) FL (State) 33711 (Zip)

19. Engineer: Walter Djordjevic Registration No.: 71412

Address: 6733 1st Avenue South (Street or P.O. Box) St. Petersburg (City) FL (State) 33707 (Zip)

Associated with: Consulting Engineer

20. Facility located on Indian land: [ ] Yes [X] No

21. Existing or pending environmental permits: (Attach a separate sheet if necessary) SEE ATTACHED

Name of Permit	Agency	Permit Number	Date Issued	Expiration Date
SEE ATTACHED				

B. Site Information

1. Facility location: County: Pinellas Nearest community: St. Petersburg

Latitude: 27-54-00 Longitude: 82-40-21

2. Area of facility site (acres): 3.5 Acres

3. Attach a scale drawing and photographs of the facility showing the location of all past, present, and future treatment, storage and disposal areas. Also show the hazardous wastes traffic pattern including estimated volume and control.

4. Attach topographic map which shows all the features indicated in the instruction sheet for this part.

5. Is the site located in a 100-year flood plain? [ ] Yes [X] No

DER Form # 730.900(2)
Form Title Ap. for a Hazardous Waste Facility Permit
Effective Date June 1, 1990
DER Application No. _____ (Filled in by DER)

C. Land Use Information

1. Present zoning of the site? ig Industrial General
2. If a zoning change is needed, what should new zoning be? _____
3. Present land use of site Used oil recycling facility - Waste water pretreatment plant.

D. Operating Information

1. Is waste generated on site? ☐ Yes ☒ No List the SIC codes (4-digit)

_____ _____ _____ _____ _____ _____

2. Attach a brief description of the facility operation, nature of the business, and activities that generate, treat, store or dispose of hazardous waste.
3. Using the following table and codes provided, specify, (1) each process used for treating, storing, or disposing of hazardous waste (including design capacities) at the facility, and (2) the hazardous waste (or wastes) listed or designated in 40 CFR Part 261, including the annual quantities, to be treated, stored, or disposed by each process at the facility. (See instructions for list of process codes and units).

Process Code	Process Design Capacity and Units of Measure	Hazardous Waste Code	Annual Quantity of Hazardous Waste and Units of Measure
S01	55 Gallon Drums	D018	700,000 Gallons
S02	Tanks - 380,834 Gallons	D018	6.3 Million Gallons
---	28,000 gallons/day to POTW by Permit	D018	7 Million Gallons/1990
T01	U 28,000 gallons by Permit	D018	7 Million Gallons/1990

HOWCO ENVIRONMENTAL SERVICES/TIM'S OIL RECOVERY

PERMIT NUMBERS & DESCRIPTION

HOWCO PERMITS

FLD 152-764-767	EPA ID Number
50119-UO	DER Used Oil Transporter, Collection and Recycling Facility
AC52-180716	DER Air Stripper
SPFL-5093-86-32	City of St. Petersburg Wastewater Discharge
FLD 152-764-767	Part A - DO18 Interim Hazardous Waste TSD Permit

TIM'S OIL PERMITS

FLD 108-304-379	EPA ID Number
50010-UO	DER Used Oil Transporter, Collection and Recycling Facility
50366-UO	DER Used Oil Collection Facility
50367-UO	DER Used Oil Collection Facility

HOWCO/TIM'S OIL

SO52-189707	Used Oil Recycling General Permit

DER Form # 17-730.900(2)
Form Title Ap. for a Hazardous Waste Facility Permit
Effective Date June 1, 1990
DER Application No. _____ (Filled in by DER)

Application for a Hazardous Waste Facility Permit
Certification

To be completed by all applicants

1. **Operator**

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 possiblity of fine and imprisonment for knowing violations. Further, I agree to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department of Environmental Regulation. It is understood that the permit is only transferable in accordance with Section 17-730, FAC, and, if granted a permit, the Department of Environmental Regtulation will be notified prior to the sale or legal transfer of the permitted facility.

W N Church Jr.
Signature of the Operator or Authorized Representative*
*Attach a letter of authorization

William N. Church, Jr./General Manager
Name and Title (Please Type or Print)
Date: 10/28/91 Telephone No. (813) 323-0818

2. **Facility Owner**

This is to certify that I understand this application is submitted for the purpose of obtaining a permit to construct, operate, or close a hazardous waste management facility on the property as described. As owner of the facility, I understand fully that the facility operator and I are jointly responsible for compliance with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department of Environmental Regulation.

Jim Hagan
Signature of the Facility Owner or Authorized Representative*
*Attach a letter of authorization

A. Timothy Hagan/President, C.E.O.
Name and Title (Please Type or Print)
Date: 10/28/91 Telephone No. (813) 323-0818

3. **Land Owner**

This is to certify that I, as land owner, understand that this application is submitted for the purpose of obtaining a permit to construct, operate, or close a hazardous waste management facility on the property as described. For hazardous waste disposal facilities, I further understand that I am responsible for providing the notice in the deed to the property required by 40 CFR §264.119 and §265.119, as adopted by reference in Chapter 17-730, FAC.

Jim Hagan
Signature of the Facility Owner or Authorized Representative*
*Attach a letter of authorization

A. Timothy Hagan/President, C.E.O.
Name and Title (Please Type or Print)
Date: 10/28/91 Telephone No. (813) 323-0818

4. **Professional Engineer Registered in Florida** (Where Required by Chapter 471, F.S. or not exempted by Rule 17-730.220(5), F.A.C.)

This is to certify that the engineering features of this hazardous waste management 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 Regulation.

_____
Signature

_____
Name (Please Type)

Florida Registration No.: _____

Mailing address: _____
Street or P.O. Box

_____
City State Zip

(Please Affix Seal)

Date: _____ Telephone No. (____) _____

WATER PLANT PROCESS

The process begins with a sales representative getting a sample of the waste stream to be processed from the prospective client. At that time he also obtains any appropriate MSDS sheets, that might apply to the original process, affecting the waste stream. In addition, he has the customer fill out a generator profile sheet, detailing the waste stream. He also attempts to obtain a certified lab analysis which is generally available if the perspective client has been sending his waste stream to another processing facility. If the certified lab analysis that is less than one year old is not available, the salesman brings the sample back to our facility for analysis in our lab.

A lab analysis attempts to determine two things; first, is the waste stream hazardous or non-hazardous according to RCRA specifications; second, to determine the treatability of the waste stream, based on the capabilities of our processing plant. The lab fills out a treatment feasibility report, which ultimately determines whether the waste stream is acceptable.

If the waste stream is acceptable to our facility the salesman creates a contract which details the terms and conditions for doing business with the customer. The key issues here, is a clause in the contract that states that should the waste stream proved to be off-specification (off-specification means not as represented) then the customer agrees to pay any additional charges to process that waste stream. The main concern here is that the waste stream that we ultimately receive conforms to the waste stream as represented by the customer. If it does not and turns out to be hazardous we will dispose of the waste as hazardous and will charge the customer accordingly. (Obviously we do not have the capability of processing hazardous waste here. If the waste stream proves to be hazardous, we either return it to the customer and charge him for transportation or based on the customers' direction, ship the waste to a licensed hazardous waste disposal facility. Obviously out of state.)

The waste stream once approved, is transported either through our carrier, which are licensed accordingly or transportation is arranged by the customer. If the waste stream is transported through our carrier, the salesman fills out a work order which goes to the Transportation Department to arrange for pick up. The key item on the work order directing the transportation driver is the container(s) in which the waste stream is held. This is important to make sure that the driver does not pick up anything that has not been profiled for acceptability at our facility.

When the waste stream is picked up, the manifest is filled out detailing the type of waste stream (i.e. gassy water, waste water, whatever the type the waste stream is) and the quantity of waste stream, the customer signs the manifest and is given a copy for his records. The driver returns to the facility with the waste stream and turns in the manifest to the transportation department. A sample is taken of the waste stream, marked accordingly, and sent to the lab for possible further analysis.

At this point, the waste stream is pumped into one of five holding tanks, that we refer to as the 160 series. The primary concern here is the C.O.D. level of the waste stream. Since this is a main category of our waste water treatment permit with the city of St. Petersburg. The discipline of the 160 series states that low C.O.D. water goes into the 160 tank and up; high C.O.D. water goes into the 165 tank and down. At the point that the waste stream is pumped into the 160 series tanks it obviously losses its unique identity based upon its fungibility. The waste stream other than the sample that we have taken from the transportation container can no longer be uniquely identified.

In the water plant process, the operator proceeds daily as follows:

- Based on daily samples generated by the lab of the 160 series, the operator performs math to determine the amount of gallons, based on C.O.D. levels to be pumped into a large blending tank, numbered 180. Typically, 50,000 gallons is pumped into this tank which has a holding capability of 60,000 gallons. The C.O.D. level for this particular tank is 11,000. The specific gallons as determined by the math in a weighted average are pumped from the 160 series into 180. This is typically done at the end of the day, so that this tank can be mixed with aeration overnight to get a homogenous mix prior to treatment during the next work day.

- Treatment is preformed in two batch tanks; one holding 15,500 gallons and the other holding 7,500 gallons. These tanks are denoted as A and B, B being the larger. The waste stream is treated with potassium permanganate as an oxygenator in order to reduce the level of C.O.D. The waste stream is then treated with polymer though a dissolved air flotation process, in order to create a sludge and knock out the dissolved solids or contaminates.

- Once the dissolved the air flotation process is completed, any heavy sludge that has fallen to the bottom of the batch tank is pumped down to the sludge processing plant. The processed water is pumped from the batch tank through a sand filter into a holding tank for a future discharge. These tanks are denoted as a 150 series.

- The sample of that particular treated batch is taken prior to the pumping into the treated storage tanks. The sample is sent to the lab for analysis to determine the level of treat as required by our water permit.

- The treated storage tanks are mixed in order to create a homogeneous waste stream and air is introduced to provide any possible further C.O.D. reduction.

- Once the lab results confirm that the waste stream complies with the permit requirements, the treated storage is discharged through a diatomacous air filter and through an air stripper rated at 1,000 CFM, then through a passed and ISCO unit which takes hourly samples on a 24 hour basis down to the sanitary sewer connected with the city sewage plant. The waste stream is discharge at the rate of 20 gallons per minute, not to exceed 28,000 in a 24 hour period.

  Note: should the phenol level of the treat not comply we have the capability of doing a secondary treat with chlorine dioxide, in order to further reduce the phenols level to an acceptable level

  Generally speaking, the potassium permanganate in reducing C.O.D. also reduces phenols. However, from time to time we do find it necessary to do a secondary treat in order to comply with our waste water permit.

  Note: All lab analysis are documented, retained in a log, all lab samples are given unique numbers and also retained in an log. This is done so that gallons discharged may be traced back for audit purposes.

This concludes the water plant process.

6/21/90

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0246-EPA-OT

For EPA Regional Use Only

Date Received
Month Day Year

EPA
United States Environmental Protection Agency
Washington, DC 20460

Hazardous Waste Permit Application Part A

(Read the Instructions before starting)

For State Use Only

I. ID Number(s)

A. EPA ID Number	B. Secondary ID Number *(if applicable)*
FLD152764767	501191-UO

II. Name of Facility

HOWCO ENVIRONMENTAL SERVICES

III. Facility Location *(Physical address not P.O. Box or Route Number)*

A. Street: 843 43RD STREET SOUTH

Street *(continued)*:

City or Town	State	ZIP Code
ST. PETERSBURG	FL	33711-

County Code *(If known)*	County Name
	PINELLAS

B. Land Type *(enter code)*	C. Geographic Location: LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*	D. Facility Existence Date: Month Day Year
P	27 54 00	82 40 21	07 01 1987

IV. Facility Mailing Address

Street or P.O. Box: SAME

City or Town	State	ZIP Code
		-

V. Facility Contact *(Person to be contacted regarding waste activities at facility)*

Name *(last)*	*(first)*
CHURCH	WILLIAM

Job Title	Phone Number *(area code and number)*
GENERAL MANAGER	813-323-0818

VI. Facility Contact Address *(See Instructions)*

A. Contact Address: Location	Mailing	B. Street or P.O. Box
X		

City or Town	State	ZIP Code
		-

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0246-EPA-OT

EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
FLD152764767	501199-UO

VII. Operator Information (see instructions)

Name of Operator			
HAGAN HOLDING COMPANY			
Street or P.O. Box			
843 43RD STREET SOUTH			
City or Town	**State**	**ZIP Code**	
ST. PETERSBURG	FL	33711-	
Phone Number (area code and number)	**B. Operator Type**	**C. Change of Operator Indicator**	**Date Changed**
813-323-0818	P	Yes [ ] No [X]	Month / Day / Year

VIII. Facility Owner (see instructions)

A. Name of Facility's Legal Owner			
ARTHUR T HAGAN			
Street or P.O. Box			
843 43RD STREET SOUTH			
City or Town	**State**	**ZIP Code**	
ST. PETERSBURG	FL	33711-	
Phone Number (area code and number)	**B. Owner Type**	**C. Change of Owner Indicator**	**Date Changed**
813-323-0818	P	Yes [ ] No [X]	Month / Day / Year

IX. SIC Codes (4-digit, in order of significance)

Primary		Secondary	
4953 (description) WASTE WATER DISPOSAL		[ ] (description)	
Secondary		**Secondary**	
[ ] (description)		[ ] (description)	

X. Other Environmental Permits (see instructions)

A. Permit Type (enter code)	B. Permit Number	C. Description
E	AC2-180716	PINELLAS COUNTY AIR PERMIT
E	SPFL5093863 2	ST. PETERSBURG POTW WATER PERMIT

EPA I.D. Number (enter from page 1)

F	L	D	1	5	2	7	6	4	7	6	7

Secondary ID Number (enter from page 1)

5	0	1	1	9	-	U	O				

XI. Nature of Business (provide a brief description)

HOWCO Environmental Services, LTD operates a waste water pretreatment facility and a related sludge press (rack and frame). The facility treats petroleum contaminated waters and sludges in order to recover the original petroleum products which are then marketed for their BTU value as fuels. The water is discharged to the St. Petersburg POTW and the dried filter cake is land filled at Pinellas County land fill.

XII. Process - Codes and Design Capacities

A. PROCESS CODE - *Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in Item XIII.*

B. PROCESS DESIGN CAPACITY - *For each code entered in column A, enter the capacity of the process.*

1. AMOUNT - *Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.*

2. UNIT OF MEASURE - *For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.*

C. PROCESS TOTAL NUMBER OF UNITS - *Enter the total number of units used with the corresponding process code.*

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	DISPOSAL:	
D79	INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY
D80	LANDFILL	ACRE-FEET OR HECTARE-METER
D81	LAND APPLICATION	ACRES OR HECTARES
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS
	STORAGE:	
S01	CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS
S02	TANK	GALLONS OR LITERS
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS
	TREATMENT:	
T01	TANK	GALLONS PER DAY OR LITERS PER DAY
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR
T04	OTHER TREATMENT (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in Item XIII.)	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
GALLONS PER HOUR	E
GALLONS PER DAY	U
LITERS	L
LITERS PER HOUR	H
LITERS PER DAY	V
SHORT TONS PER HOUR	D
METRIC TONS PER HOUR	W
SHORT TONS PER DAY	N
METRIC TONS PER DAY	S
POUNDS PER HOUR	J
KILOGRAMS PER HOUR	R
CUBIC YARDS	Y
CUBIC METERS	C
ACRES	B
ACRE-FEET	A
HECTARES	Q
HECTARE-METER	F
BTU's PER HOUR	K

EPA I.D. Number (enter from page 1): F L D 1 5 2 7 6 4 7 6 7

Secondary ID Number (enter from page 1): 5 0 1 1 9 - U O

XII. Process - Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY
X 1	S 0 2	600	G	0 0 2	
X 2	T 0 3	20	E	0 0 1	
1	S 0 2	296,636	G	0 1 6	
2	T 0 1	40,000	U	0 0 2	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in Item XIII.

XIII. Additional Treatment Processes (follow instructions from Item XII)

Line Number (enter numbers in sequence with Item XII)	A. PROCESS CODE	B. TREATMENT PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. TREATMENT PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
0 3	T 0 4	10,000	U	0 0 1	Oil, water, dirt emulsion forms a sludge in oil water seperators. The process breaks the emulsion - recovers the oil for resale as fuel - the water is treated - and the remaining clean soil held for disposal.
	T 0 4				
	T 0 4				
	T 0 4				

1. EPA I.D. Number (enter from page 1)												Secondary ID Number (enter from page 1)											
F	L	D	1	5	2	7	6	4	7	6	7	5	0	1	1	9	-	U	O				

XIV. Description of Hazardous Wastes

A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that processes that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of Item XIV-D(1).
3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
X	1	K 0 5 4	900 P	T 0 3 D 8 0	
X	2	D 0 0 2	400 P	T 0 3 D 8 0	
X	3	D 0 0 1	100 P	T 0 3 D 8 0	
X	4	D 0 0 2			Included With Above

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0246-EPA-OT

EPA I.D. Number (enter from page 1): F L D 1 5 2 7 6 4 7 6 7

Secondary ID Number (enter from page 1): 5 0 1 1 9 - U O

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D 0 1 8	30,000	T	S 0 2 T 0 1 T 0 4	
2					
3					
4					
5					
6					
7					
8					
9					
10					
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Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0034 Expires 12-31-91
GSA No. 0246-EPA-OT

EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
F L D 1 5 2 7 6 4 7 6 7	5 0 1 1 9 - U O

XIV. Description of Hazardous Waste (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 6.

Line Number	Additional Process Codes (enter)

XV. Map

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

XVIII. Certification(s)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Owner Signature: Arthur T. Hagan Pres. — Date Signed: 9/24/90

Name and Official Title *(type or print)*: Arthur T. Hagan, President/CEO

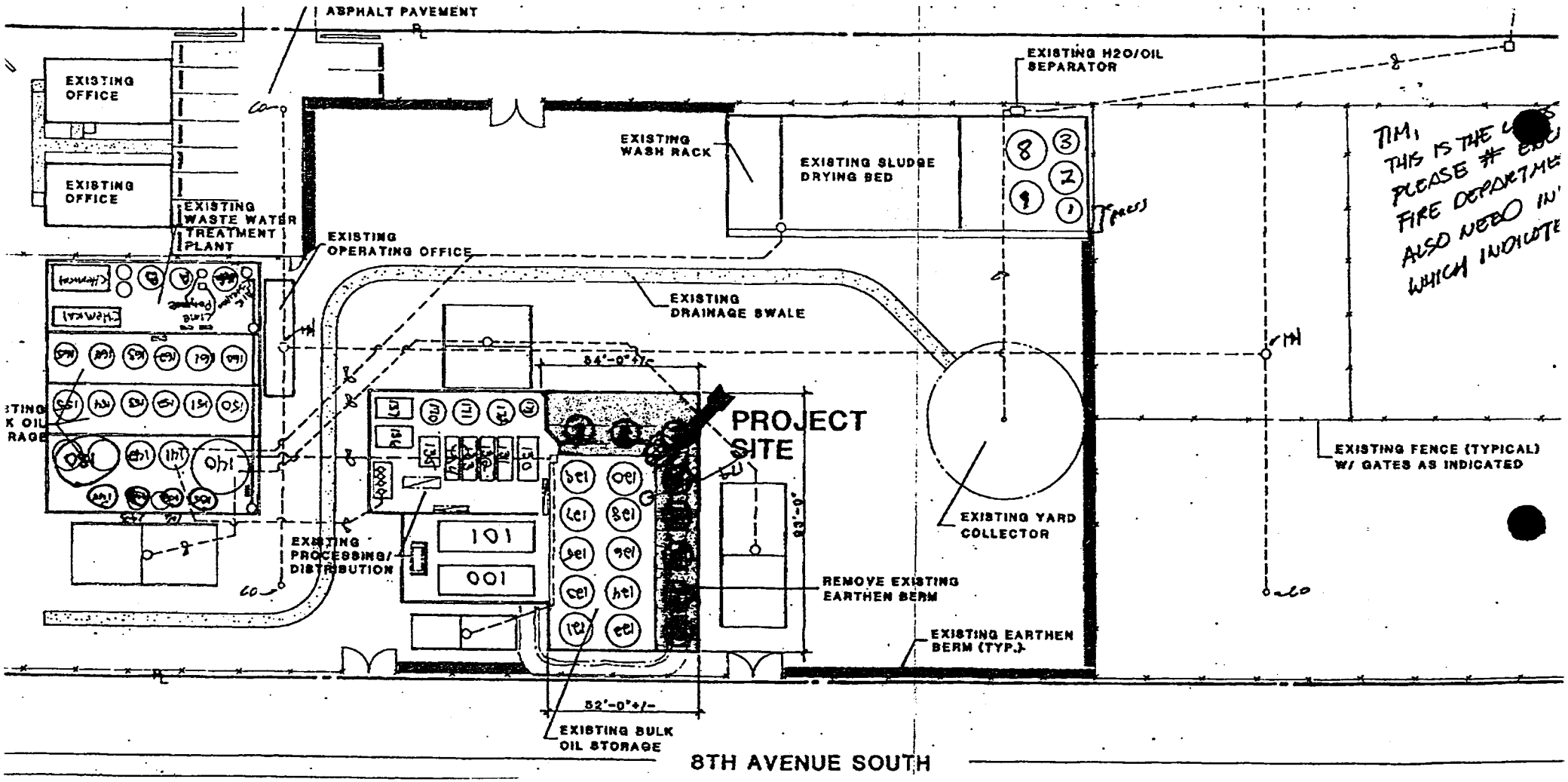
Operator Signature: Arthur T. Hagan Pres. — Date Signed: 9/24/90

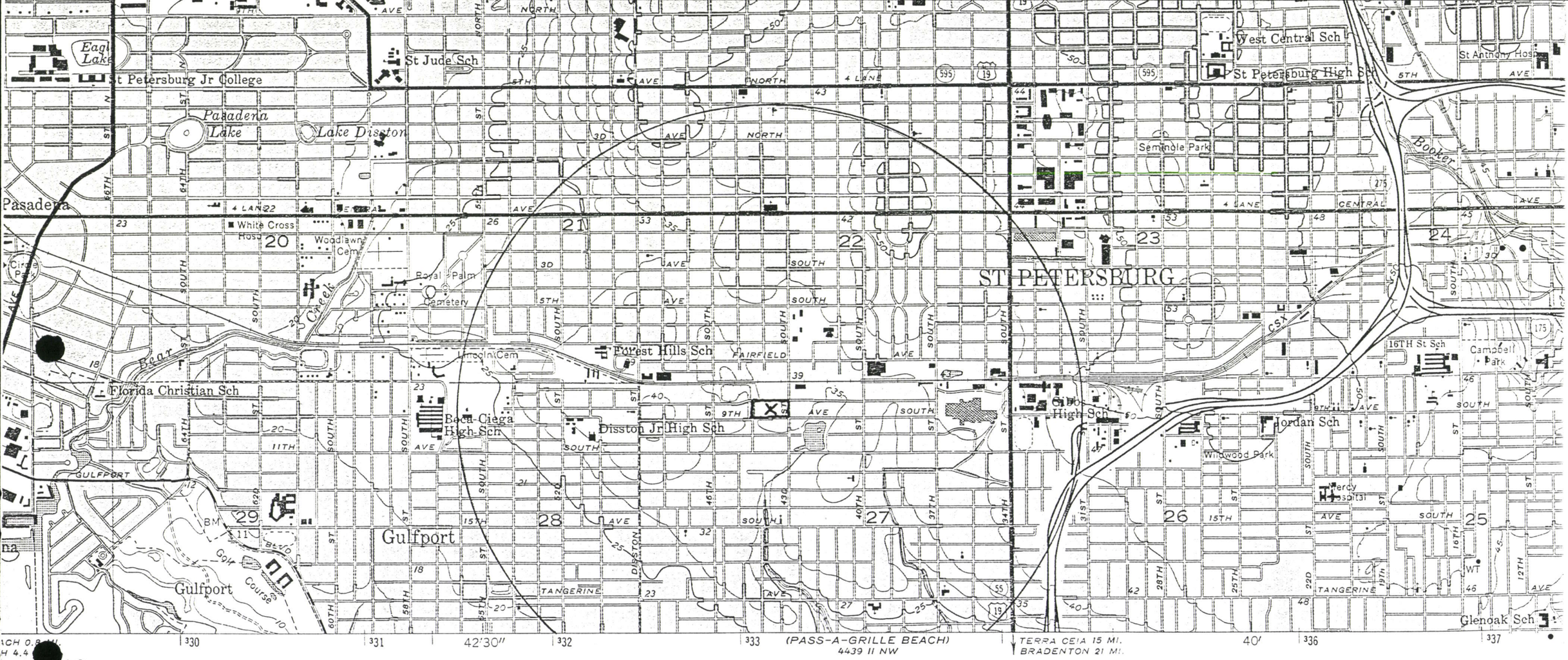
Name and Official Title *(type or print)*: Arthur T. Hagan, President/CEO Hagan Holding Company

XIX. Comments

The southern portion of the topographical map was unavailable and is on order.
The southern portion will be forwarded as soon as received.

Note: Mail completed form to the appropriate EPA Regional or State Office. (refer to instructions for more information)


ASPHALT PAVEMENT
EXISTING OFFICE
EXISTING OFFICE
EXISTING WASTE WATER TREATMENT PLANT
EXISTING OPERATING OFFICE
EXISTING H2O/OIL SEPARATOR
EXISTING WASH RACK
EXISTING SLUDGE DRYING BED
EXISTING DRAINAGE SWALE
PROJECT SITE
54'-0"+/-
93'-0"
EXISTING PROCESSING/ DISTRIBUTION
101
001
REMOVE EXISTING EARTHEN BERM
EXISTING YARD COLLECTOR
EXISTING FENCE (TYPICAL) W/ GATES AS INDICATED
EXISTING EARTHEN BERM (TYP.)
52'-0"+/-
EXISTING BULK OIL STORAGE
8TH AVENUE SOUTH



Geological Survey

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charts 587 (1953)

purposes

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SCALE 1:24000

1 MILE

7000 FEET

1 KILOMETER

MN
GN
2° 36 MILS
0°47' 14 MILS

UTM GRID AND 1987 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Dashed contours in strip mine areas represent conditions before being mined

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092

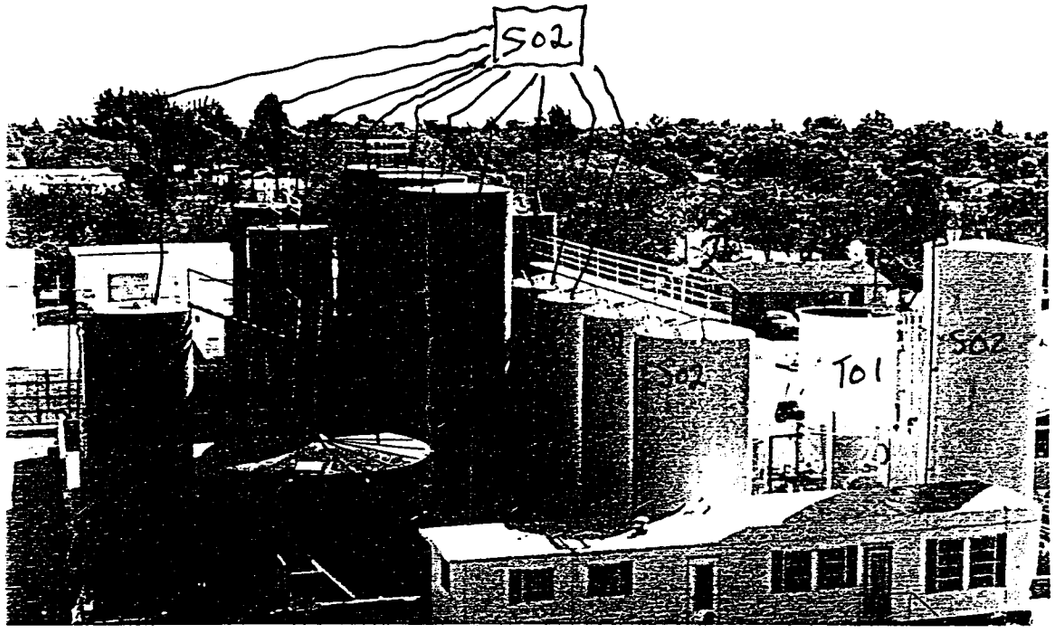
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

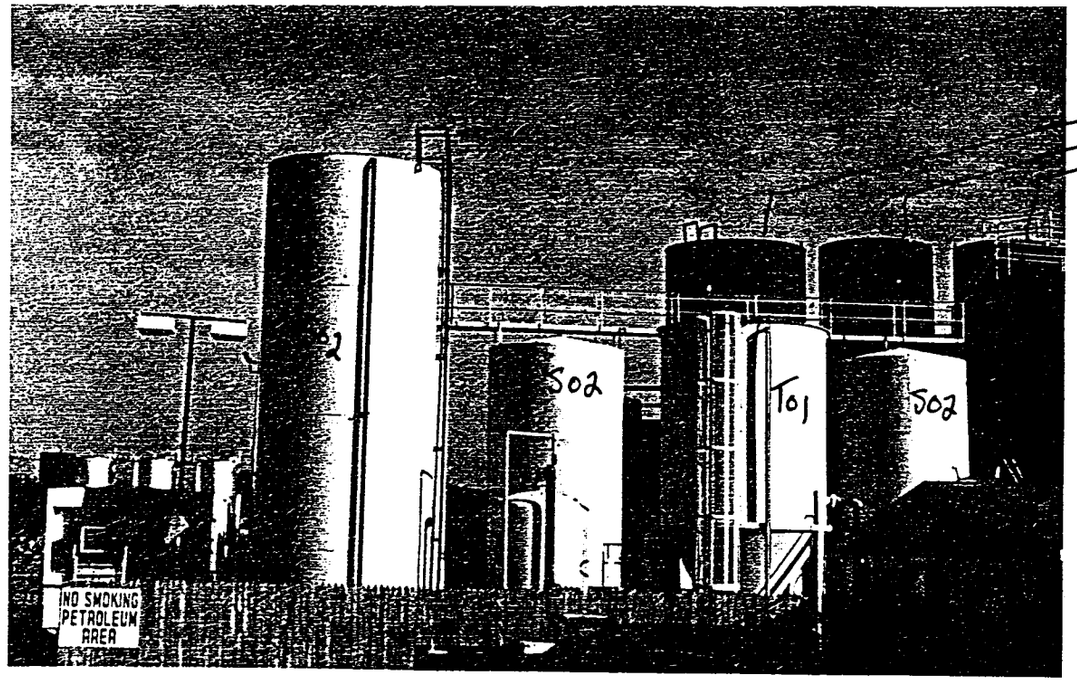
QUADRANGLE LOCATION

Revisions shown in purple and woodland compiled in cooper with State of Florida agencies from aerial photographs taker and other sources. This information not field checked Map edited 1987

Purple tint indicates extension of urban areas

Light purple tint indicates reclaimed strip mine areas





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Photographs
01-89